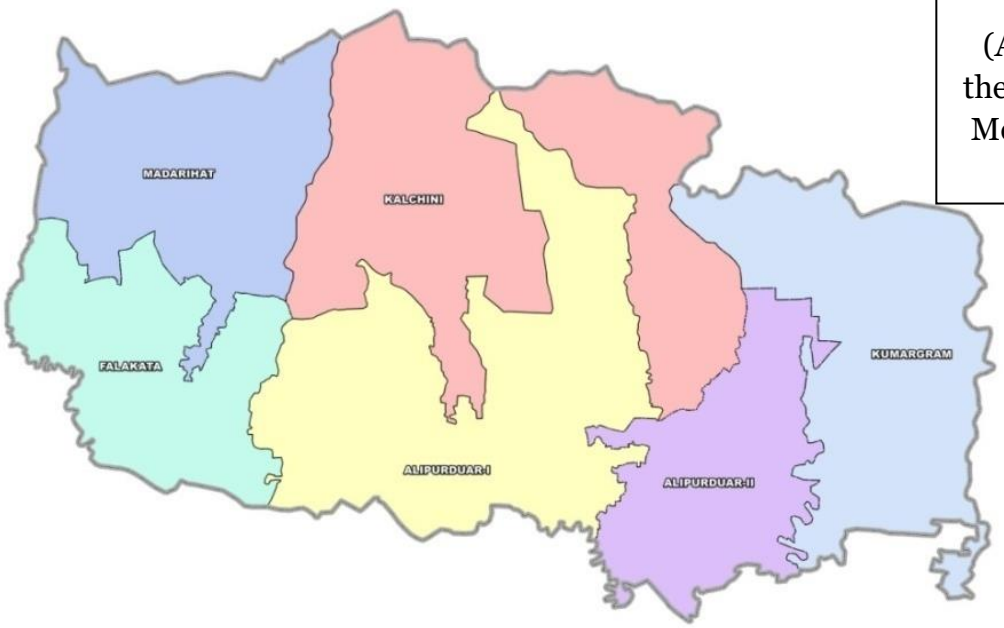
DISTRICT SURVEY REPORT OF ALIPURDUAR DISTRICT

(For Mining of Minor Minerals)
As per Notification No.S.O.141 (E) New Delhi Dated 15th of January 2016, S.O.3611 (E) New Delhi Dated 25th of July 2018 and Enforcement & Monitoring Guidelines for Sand Mining (EMGSM) January 2020, Issued by Ministry of Environment, Forest and Climate Change (MoEF&CC)

SEIAA Approval Date:

10th August 2022

(As published in the Minutes of 69th Meeting of SEIAA under



July, 2022

PREPARED BY
Department of Industry, Commerce & Enterprises
Government of West Bengal

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KOLKATA-700016

No. 1333 MD

Kolkata, 6th January, 2022.

TO WHOM IT MAY CONCERN

This is to certify that DSRs of concerned districts of West Bengal have been duly validated by respective district authorities and their suggestions/inputs, if any, have been duly incorporated in the DSRs. The DSRs have been finally scrutinised and accepted by the scrutiny committee of DMM, WB and the same have been forwarded to the Dept. of Industry, Commerce and Enterprises along with respective scrutiny reports for onward transmission to SEAC for necessary action.

Director of Mines and Minerals

Govt. of West Bengal

Content

Chapter No	Subject	Page No
	Executive Summary	**1**
1	**Preface**	**2**
2	**Introduction**	**3-17**
3	**General Profile of the District**	**18-36**
	a. General Information	18-20
	b. Climate Condition	20
	c. Rainfall and humidity	20-22
	d. Topography & Terrain	23-24
	e. Water courses and Hydrology	24-25
	f. Ground water Development	25-27
	g. Drainage System	27-29
	h. Demography	29-31
	i. Cropping pattern	31
	j. Land Form and Seismicity	31-33
	k. Flora	33-34
	l. Fauna	34-36
4	**Physiography of the District**	**37-41**
	a) General Landforms	37-38
	b) Soil and rock pattern	38-40
	c) Different geomorphology units	40-41
5	**Land Use Pattern of The District**	**42-48**
	a) Forest	43-45
	b) Agriculture and Irrigation	45-47

Chapter No	Subject	Page No
	c) Horticulture	47-48
	d) Mining	48
6	**Geology**	**49-51**
7	**Mineral Wealth**	**52-99**
	7.1 Overview of mineral resources	52
	7.2 Details of Resources	52-96
	A) Sand and other riverbed minerals	52-93
	I. Drainage System	53-54
	II. Annual deposition of riverbed minerals	54-90
	A. Geomorphological studies	54-88
	i. Place of Origin	54
	ii. Catchment Area	55
	iii. General profile of river stream	55-57
	iv. Annual deposition factor	58-61
	v. Replenishment Study as per EMGSM guidelines 2020	61-79
	vi. Total potential of minor mineral in the river bed	79
	B. Geological studies	79-80
	i. Lithology of the catchment area	79
	ii. Tectonics and structural behavior of rocks	79-80
	C. Climate Factors	80-90
	i. Intensity of rainfall	80
	ii. Climate zone	80
	iii. Temperature variation	80-81
	III. Riverbed Mineral Potential	82-86
	B) In-situ Minerals	87-89

Chapter No	Subject	Page No
	I. Mineral Potential	87
	II. Mineral Occurrence	87-89
8	**Overview Of Mining Activity in The District**	**90-105**
	a) General overview	90
	b) List of existing mining leases of the districts (location, area, period for each minor mineral)	90-104
	c) Detail of production of sand and other minerals during last three years	105
9	**Details Of Revenue Generated from Mineral Sector During Last Three Years**	**106**
10	**Transport**	**107-109**
11	**Remedial measure to mitigate the impact of Mining**	**110-114**
12	**Suggested reclamation plan for already mined out areas**	**115**
13	**Risk assessment & disaster management plan**	**116-117**
14	**Conclusions and Recommendations**	**118-119**
15	**References**	**120-121**

List of Plates

Plate No.	Subject	Page No
Plate 1A:	Drainage Map of Alipurduar District	1-2
Plate 1B	Location Map of dams, barrages, bridge showing on drainage system	3
Plate 2A1-2A12:	Distribution Map of Sand Bars on Rivers During Pre-Monsoon Period of Alipurduar district	4-16
Plate 2B1-2B11:	Distribution Map of Sand Bars on Rivers During Post-Monsoon Period of Alipurduar district	17-28

Plate No.	Subject	Page No
Plate 3A	Watershed map of Alipurduar District	29-30
Plate 3B	District Watershed map showing ground water level during Pre-monsoon period	31
Plate 3C	District Watershed map showing ground water level during post-monsoon period	32
Plate 4	Field Survey Photographs	33-34
Plate 5A	Long-term River course map of the district	35-36
Plate 5B	Map showing long-term (10-year or more) erosion-accretion areas on both the banks of Jayanti River, Alipurduar	37-37

List of Annexure

Annexure No.	Subject	Page No
Annexure 1:	Compliance as per Enforcement & Monitoring Guidelines for sand Mining, 2020 (MoEF& CC) for preparation of District Survey Report	1-5
Annexure 2:	Estimation of Sand Resources based on sediment load comparison between Pre and Post Monsoon period of Alipurduar district	1-11
Annexure 3:	Boundary co-ordinates of Potential Blocks of Alipurduar District	1-136
Annexure 4:	Maps of Potential Sand Blocks of Alipurduar District	-
Annexure 5:	Compliance to the Meeting and observation of SEAC and SEIAA	1-16
Annexure 6:	SEIAA 69th Meeting (10th August, 2022) MOM	-

List of Figures

Figure No	Description	Page No
Figure No.2.1:	Steps followed in preparation of DSR	13
Figure No.2.2:	Pictorial description of Land Use Classification methods	14
Figure No.2.3:	Pictorial description of Geomorphological Units Classification methods	15
Figure No.3.1:	Location map of Alipurduar district	18
Figure No.3.2:	Block map of Alipurduar district	19
Figure No.3.3:	Graphical representation of Rainfall distribution of year 2018 of Alipurduar District	21
Figure No.3.4:	Physiographic map of Alipurduar district	23
Figure No.3.5:	Hydrogeological map of Alipurduar district	24
Figure No.3.6:	Graphical representation of two wells data for pre-monsoon and post-monsoon period	25
Figure No.3.7:	Block wise Hydrograph of water level of the district	26-27
Figure No.3.8:	Drainage map of Alipurduar district	28
Figure No.3.9:	Block-wise population distribution in Alipurduar District	30
Figure No.3.10:	Demographic map showing Block-wise Literacy rate of Alipurduar District	31
Figure No.3.11:	Earthquake zonation map of West Bengal highlighting the Alipurduar district position	32
Figure No.3.12:	District location with respect to Wild Life Sanctuary of West Bengal	35
Figure No.4.1:	Soil Map of Alipurduar District	39
Figure No.4.2:	Geomorphological Map of Alipurduar District	40
Figure No.5.1:	Classification of Land Utilisation Statistics in the district	42
Figure No.5.2:	Land Use Land Cover map of Alipurduar District	43
Figure No.7.1:	Plan showing the major rivers along with the distribution of Section Lines, Alipurduar District, West Bengal	55

Figure No	Description	Page No
Figure No.7.2:	River cross section during pre monsoon period	56
Figure No.7.3:	River cross section during post monsoon period	57
Figure No.7.4:	Benchmark demarcated at Kaljani River section	63
Figure No.7.5:	Site View of River Kaljani	64
Figure No.7.6:	Site View of River Gadadhar	64
Figure No.7.7:	Watershed map of Alipurduar District	69
Figure No.7.8:	Graphical representation of year-wise sedimentation rate	77
Figure No.7.9:	A representative map showing no-mining zone demarcated on Bangri River	86
Figure No.7.10:	Figure showing sample of dolomite from river bed of Jayanti River	87
Figure No.10.1:	Transportation map of Alipurduar District	108
Figure No. 10.2:	Map showing approach road to potential sand bars	109

List of Tables

Table No	Description	Page No
Table No. 2.1:	Requirement of District Survey Report & its year wise modification of Guidelines	5-6
Table No. 3.1:	Details of Block of Alipurduar District	20
Table No. 3.2:	Details of rainfall data of five years	20-21
Table No. 3.3:	Monthly average temperature distribution of Alipurduar District	22
Table No. 3.4:	Details of major rivers of Alipurduar District	28
Table No. 3.5:	Demographic statistics of Alipurduar District	30
Table No. 3.6:	Details of Forest area	34
Table No. 4.1:	Description of District soil type as depicted in district soil map	39-40
Table No. 5.1:	Land use pattern of Alipurduar District	42
Table No. 5.2:	Details of forest area, forest produce and revenue & expenditure of the district for the last five years	44-45

Table No	Description	Page No
Table No. 5.3:	Area under principal crops in the district	45-46
Table No. 5.4:	Details of crops in different period	46-47
Table No. 5.5:	Details of area used for crops	47
Table No. 5.6:	Details of fruits	48
Table No. 5.7:	Details of flowers	48
Table No. 6.1:	Geological succession of Alipurduar	49
Table No. 7.1:	Drainage system with description of main rivers	53
Table No. 7.2:	Salient Features of important rivers and streams	53
Table No. 7.3:	Place of Origin of important rivers and streams	54
Table No. 7.4:	Co-ordinates of established Benchmark	62-63
Table No. 7.5:	Sediment Load comparison between Pre & Post Monsoon periods for different rivers of Alipurduar district	66
Table No. 7.6:	Replenishment rate of the district	67
Table No. 7.7:	Runoff coefficient of the catchment based on Strange's table	70
Table No. 7.8:	Replenishment parameter estimated for each river in the district	76
Table No. 7.9:	Year wise sedimentation rate for last five years of each river	76
Table No. 7.10:	River wise replenishment rate estimation based on empirical formula	77-78
Table No. 7.11:	Illustration of Replenishment Studies	78
Table No. 7.12:	Comparison of replenishment studies	79
Table No. 7.13:	Annual deposition of Riverbed minerals	81
Table No. 7.14:	Resources of Potential Riverbed Mineral	82
Table No. 7.15:	Potential Zone of Riverbed Mineral Deposits	82-85
Table No. 7.16:	No Mining zone of the district riverbed deposits	85-86
Table No. 7.17:	In-situ Minerals Occurrences	89
Table No. 8.1:	Details of mining leases of the districts	90-98
Table No. 8.2:	Details of production of sand and other minerals	99-104
Table No. 8.3:	Detail of production of sand and other minerals during last four years	105
Table No. 9.1:	District revenue generation from mineral sector	106

Abbreviations

% DEP – Departures

° C – Degree Centigrade

BGL – Below Ground Level

CD - Community Development

Cft- Cubic Feet

CGWB - Central Ground water Board

CRIS - Customized Rainfall Information System

Cum - Cubic meter

DGMS - Directorate General of Mines Safety

DGPS - Differential Global Positioning system.

DL&LRO - District Land & Land Reform officer

DSR - District Survey Report

EC – Environmental Clearance

EIA- Environment Impact Assessment

EMGSM - Enforcement and Monitoring Guideline for Sand Mining

ENVIS - Environmental Information System

ft – Feet

GIS - Geographical Information System

GMEC - Global Management and Engineering Consultant

GSI - Geological Survey of India

Ha – Hectare

hr - Hour

IMD – Indian Meteorological Department

ISRO - The Indian Space Research Organisation

KM - Kilometre

LISS - Linear Imaging Self-Scanning Sensor

LOI - Letter of Intent

LULC - Land Use Land Cover

m^2 - Square meter

Mcum – Million Cubic Meter

MMDR - Mines & Minerals (Development and Regulation) Act

MMR - Metalliferous Mines Regulation

MOEF & CC - Ministry of Environment, forest & Climate Change

Mph- miles per hour

M-Sand - Mineral Sand

MSME - Micro, Small & Medium Enterprises

Mt - Metric Ton

MT – Million Tons

NGT - National Green Tribunal

NH – National Highway

NIC - National Informatics Centre

OC - Officer In Charge

OGL - Original Ground level

PSU - Public Sector Unit

R/F – Rain Fall

SSMG - Sustainable Sand Mining Guidelines

WBMDTCL- West Bengal Mineral Development and Trading Corporation Limited

The WBMMCR 2016 – The West Bengal Minor Mineral Concession Rules, 2016

Definitions

Riverbed: A riverbed is the area between two banks of river where sediment deposited. During the normal flow period, river water is contained in and flows along the riverbed. However, during a flood, the river overflows the riverbed and flows onto the floodplain.

Sandbars: The sandbar is the ridge of sand or coarse sediment that is built over a period of time.

Pre monsoon Sandbars: Sandbars which are identified from satellite imagery of pre monsoon period.

Post monsoon Sandbars: Sandbars which are identified from satellite imagery of post monsoon period.

Restricted Area: Sandbars or part of sandbars which are falling within restricted area. As per the Enforcement & Monitoring Guidelines for Sand Mining (EMGSM) 2020 the restricted zone for mining is a distance from the bank is ¼th of river width and not be less than 7.5 meters. Also, there is a no mining zone up to a distance of 1 kilometre (1 km) from major bridges and highways on both sides, or five times (5x) of the span (x) of a bridge/public civil structure (including water intake points) on up-stream side and ten times (10x) the span of such bridge on down-stream side, subjected to a minimum of 250 meters on the upstream side and 500 meters on the downstream side. No mining zone has been marked for an area up to a width of 100 meters from the active edge of embankments.

Potential Zone: Sandbars which are falling within the central 3/4th part of the riverbed and which are not falling within the restricted area.

Potential Block: Each individual sand bars of potential zone is Potential Block.

River bed occurrence: River bed occurrence means sand, stone, boulder, pebbles, gravel accumulated in the river bed by natural phenomenon.

Replenishment: Restoration of sediment to a former level or condition.

Aggradations: Aggradation (or alluviation) is the term used in geology for the increase in land elevation, typically in a river system, due to the deposition of sediment. Aggradation occurs in areas in which the supply of sediment is greater than the amount of material that the system is able to transport.

Act: It means the Mines and Minerals (Development and Regulation) Act, 1957(67 of 1957), as subsequently amended.

Mineral: It means minor minerals as defined in clause (e) of section 3 of the Act.

Sand: A natural resource, is a minor mineral as defined under S 3(e) of the Mines and Minerals (Development and Regulation) Act, 1957 (" MMDR Act").

Lease: It means a mining lease granted under West Bengal Minor Mineral Concession Rules, 2016.

Mining: Excavation of mineral by manual method or using machineries.



EXECUTIVE SUMMARY:

The Dstrict Survey Report (DSR) of Alipurduar district describes the general geographical profile of the district, distribution of natural resources, livelihood, climatic condition and sources of revenue generation.

Alipurduar is one of the newly created district of West Bengal. It became 20th District of West Bengal on 25thJune, 2014. Alipurduar the second largest Sub-Division was created on 7th July 1876. The Late Colonel Hedayet Ali Khan was the first Assistant Commissioner of Alipurduar and it was named after him. This district consists of six blocks namely 1) Kumargram, 2) Kalchini, 3) Alipurduar-I, 4) Alipurduar-II, 5) Falakata, 6) Madarihat-Birpara and two Municipalities i.e. Alipurduar Municipality and Falakata Municipality.

Numerous rivers and streams are found to dissect the land near the confluence zone of the Himalayan uphills and the plains. The rivers are mostly rain fed in nature. Limited part of the district in the northern edge possesses a higher altitude while majority of the district lies in the terai region of Himalayan belt. Major part of the district is drained in the Bhrahmaputra basin. The major rivers are Torsa, Kaljani, Raidak, Jayanti and Sankosh.

Main livelihood of the district is agriculture. Boro, Mech, Toto and Santhal are the few native tribes of this district. The economy of Alipurduar depends on tea production, Riverbed mining, horticulture, agriculture, forestry and tourism.

Alipurduar district does not have any reported insitu mineral deposits so far. The district is currently generating revenue from mining of minor minerals mostly as river bed material constituting sand and gravels. However, few dolomite and clay deposits are likely to be proven in due course through systematic exploration.

The district has an upside potential for development of Riverbed Dolomite and Quartz deposit. The occurrence has been reported by Directorate of Mines and Minerals, Government of West Bengal. It requires further systematic and scientific approach to quantify the resource along with their grade assessment. The occurrences are mostly observed in the river Jayanti, Raidak and Sankosh. This report also recommends to undertake detail exploration (G1 & G2 level) program to assess the mineral occurrences in the major rivers of the district and should have a proper development and production plan for the specified minerals. The potential sand mining zones are identified and shown in the relevant section of the report.

1. Preface

The need for District Survey Report (DSR) have been necessitated by Ministry of Environment, Forest and Climate Change (MoEF& CC) vide there Notification No. 125 (Extraordinary, Part II Section 3, Sub-section ii), S.O. 141 (E), dated 15th January 2016.The notification was addressed to bring certain amendments with respect to the EIA notification 2006 and in order to have a better control over the legislation. District level committees have been introduced in the system. As a part of this notification, preparation of District Survey Reports has been introduced. Subsequently, Ministry of Environment, Forest and Climate Change has published Notification No. 3611 (E), dt. 25th July, 2018 regarding inclusion of the "Minerals Other than Sand" and format for preparation of the DSR has been specified. Monitoring Guidelines for Sand Mining (EMGSM) January 2020, Issued by Ministry of Environment, Forest and Climate Change is prepared in consideration of various orders/directions issued by Hon'ble NGT in matters pertaining to illegal sand mining and also based on the reports submitted by expert committees and investigation teams. This DSR has been prepared in conformity with the S O 141 (E), S O 3611 (E) and other sand mining guidelines published by MOEF& CC time to time as well as the requirement specified in The WBMMCR, 2016.

The purpose of DSR is to identify the mineral potential areas where mining can be allowed; and also, to distinguish areas where mining will not be allowed due to proximity to infrastructural structures and installations, areas of erosion, areas of environmental sensitivities etc. The DSR would also help to estimate the annual rate of replenishment wherever applicable and allow time for replenishment.

Preparation of this DSR involved both primary and secondary data generation. The primary data generation involved the site inspection, survey, ground truthing etc. while secondary data has been acquired through various authenticated sources and satellite imagery studies. The secondary data related to district profile, local geology, mineralization and other activities are available in rather a piecemeal fashion.

The DSR of Alipurduar district describes the general geographical profile of the district, distribution of natural resources, livelihood, climatic condition, inventory of minor minerals and revenue generation.

2. Introduction

The District Survey Report of Alipurduar District has been prepared as per the guide line of Ministry of Environment, Forests & Climate Change (MoEF& CC), Government of India vide Notification S.O.-1533(E) dated 14th Sept, 2006 and subsequent MoEF& CC Notification S.O. 141(E) dated 15th Jan, 2016. This report shall guide systematic and scientific utilization of natural resources, so that present and future generation may be benefitted at large. Further, MoEF& CC published a notification S.O. 3611(E) Dated 25th July, 2018 and recommended the format for District Survey Report.

The main objective of DSR is to identify the areas of aggradations or deposition where mining can be allowed; and identification of areas of erosion and proximity to infrastructural structures and installations where mining should be prohibited and estimation of annual rate of replenishment and allowing time for replenishment after mining in that area. The DSR would also help to calculate the annual rate of replenishment wherever applicable and allow time for replenishment. Besides the sand mining, the DSR also include the potential development scope of in-situ minor minerals.

The objectives of the District Survey Report are as following:

1. To identify and quantify minor mineral resources for its optimal utilization.
2. To regulate sand and gravel mining, identification of site-specific end-use consumers and reduction in demand and supply gaps.
3. To facilitate use information technology (IT) for surveillance of the sand mining at each step.
4. To enable environmental clearance for cluster of sand and gravel mines.
5. To restrict illegal mining.
6. To reduce occurrences of flood in the area.
7. To maintain the aquatic habitats.
8. To protect ground water in the area by limiting extraction of material in riverbeds to an elevation above the base flow.



9. To maintain data records viz. details of mineral resource, potential area, lease, approved mining plan, co-ordinates of lease hold areas, and revenue generation.
10. To design a scientific mining plan and estimate ultimate pit limit.

The District Survey Report (DSR) comprises both primary and secondary data on geology, mineral resources, climate, topography, landform, forest, rivers, soil, agriculture, road, transportation, irrigation etc of the district collected from various published and un-published literatures and reports as well as various websites. Data on lease and mining activities in the district, revenue etc. have been collected from the DL&LRO office of the district and from West Bengal Mineral Development Corporation Limited.

2.1 Statutory Framework:

a. Evolution of the Environmental Regulatory Framework:

Requirement of District Survey Report & its year wise modification of Guidelines are furnished in Table No 2.1.

Table No. 2.1: Requirement of District Survey Report & its year wise modification of Guidelines

Year	Particulars
1994	The Ministry of Environment, Forest & Climate Change (MoEF&CC) published Environmental Impact Assessment Notification 1994 which is only applicable for the Major Minerals more than 5 ha.
2006	In order to cover the minor minerals also into the preview of EIA, the MoEF&CC issued EIA Notification SO 1533 (E), dated 14th September 2006, made mandatory to obtain environmental clearance for both Major & Minor Mineral more than 5 Ha.
2012	Further, Hon'ble Supreme Court wide order dated the 27th February, 2012 in I.A. No.12- 13 of 2011 in Special Leave Petition (C) No.19628-19629 of 2009, in the matter of Deepak Kumar etc. Vs. State of Haryana and Others etc., ordered that "leases of minor minerals including their renewal for an area of less than five hectares be granted by the States/Union Territories only after getting environmental clearance from MoEF"; and Hon'ble National Green Tribunal, order dated the 13th January, 2015 in the matter regarding sand mining has directed for making a policy on environmental clearance for mining leases in cluster for minor Minerals.
2016	The MoEF&CC in compliance of above Hon'ble Supreme Court's and NGT'S order has prepared "Sustainable Sand Mining Guidelines (SSMG), 2016" in consultation with State governments, detailing the provisions on environmental clearance (EC) for cluster, creation of District Environment Impact Assessment Authority, preparation of District survey report and proper monitoring of minor mineral. There by issued Notification dated 15.01.2016 for making certain amendments in the EIA Notification, 2006, and made mandatory to obtain EC for all minor minerals. Provisions have been made for the preparation of District survey report (DSR) of River bed mining and other minor minerals.
2016	West Bengal Minor Minerals Concession Rules, 2016 amended the Mines and Minerals (Developmentand Regulation) Act, 1957 (Act 67 of 1957), to make the rules regulating the grant of mining licenses,

Year	Particulars
	prospecting license-cum-mining leases and mining leases in respect of minor minerals by auction process. The rule also incorporates EIA 2016 also includes SSMG 2016 for minor mineral mining.
2018	MoEF& CC published a notification S.O. 3611(E) Dated 25th July, 2018 and recommended the format for District Survey Report .The notification stated about the objective of DSR i.e. "Identification of areas of aggradations or deposition where mining can be allowed; and identification of areas of erosion and proximity to infrastructural structures and installations where mining should be prohibited and calculation of annual rate of replenishment and allowing time for replenishment after mining in that area".
2020	Enforcement & Monitoring Guidelines for Sand Mining (EMGSM) 2020 has been published modifying Sustainable sand Mining Guidelines, 2016 by MoEF& CC for effective enforcement of regulatory provisions and their monitoring. The EMGSM 2020 directed the states to carry out river audits, put detailed survey reports of all mining areas online and in the public domain, conduct replenishment studies of river beds, constantly monitor mining with drones, aerial surveys, ground surveys and set up dedicated task forces at district levels. The guidelines also push for online sales and purchase of sand and other riverbed materials to make the process transparent. They propose night surveillance of mining activity through night-vision drones.

b. Other Guidelines for Sand Mining in India:

i. The West Bengal Minor Minerals Concession Rules, 2016:

1) (a) No person shall undertake mining operation in any area prohibited by the 'State Government in the public interest by notification in the *Official Gazette*.

Provided that nothing in the sub-rule shall affect any mining operation undertaken in any area in accordance with the terms and conditions of a mining lease or mineral concession already granted.

(b) No person shall transport or store or cause to be transported or stored any mineral otherwise than in accordance with the provisions of these rules and the West Bengal Minerals (Prevention of Illegal Mining, Transportation and Storage) Rules, 2002.

(2) No minor mineral coming out in course of digging of wells or excavation of tanks shall be disposed of by the person digging or excavating without informing the District Authority as well as the Executive Officer of the *Panchayat Samiti* or the



Executive Officer of the Municipality concerned, as the case may be, about such occurrence.

Provided that disposal of such minor mineral may be allowed on pre-payment of prices of such minor mineral at the prevailing market rate as determined on the basis of the rates published by the Public Works Department / concerned department of the State Government for the concerned area from time to time.

(3) No mining of river bed occurrences shall be allowed within 300 meters, upstream and downstream, measured from the centre line of any bridge, regulator or similar hydraulic structure and from the end point of bank protection works.

(4) No river bed mining shall be allowed beneath 3 meters of the river bed or ground water level, whichever is less.

(5) No mining operation in case of river bed occurrence shall be done within a distance of three (3) kilometers of a barrage axis or dam on a river unless otherwise permitted by the concerned Executive Engineer or Revenue Officer or authorized officer and such distance shall be reckoned across an imaginary line parallel to the 'barrage, or dam axis, as the case maybe.

(6) No extraction of river bed occurrence shall 'be allowed beyond the central one third of the river bed, or keeping a distance of 100 meter from the existing bank line whichever is less, unless otherwise permitted by the concerned Executive Engineer or Revenue Officer.

(7) No extraction of minerals other than river bed occurrence shall be allowed within fifty (50) meters from any road, public structure, embankment, railway line, bridge canal, road and other public works or buildings.

(8) No mining lease shall be granted without proof of existence of mineral contents in the area for which the application for a mining lease has been made in accordance with such parameters as may be prescribed by the Government from time to time.

N.B- The aforesaid application for mining lease shall succeed the competitive bidding for mining lease for a specified mineral(s).

ii. Sustainable Sand Mining Management Guidelines, 2016 (MoEF& CC):

The sustainable sand Mining Management Guidelines 2016 has been prepared after extensive consultation with the States and Stakeholders over a period of one year. The main objective of the Guideline is to ensure sustainable sand mining and environment friendly management practices in order to restore and maintain the ecology of river and other sand sources.

a) Parts of the river reach that experience deposition or aggradation shall be identified first. The Lease holder/ Environmental Clearance holder may be allowed to extract the sand and gravel deposit in these locations to manage aggradation problem.

b) The distance between sites for sand and gravel mining shall depend on the replenishment rate of the river. Sediment rating curve for the potential sites shall be developed and checked against the extracted volumes of sand and gravel.

c) Sand and gravel may be extracted across the entire active channel during the dry season.

d) Abandoned stream channels on terrace and inactive flood plains be preferred rather than active channels and their deltas and flood plains. Stream should not be diverted to form inactive channel.

e) Layers of sand and gravel which could be removed from the river bed shall depend on the width of the river and replenishment rate of the river.

f) Sand and gravel shall not be allowed to be extracted where erosion may occur, such as at the concave bank.

g) Segments of braided river system should be used preferably falling within the lateral migration area of the river regime that enhances the feasibility of sediment replenishment.

h) Sand and gravel shall not be extracted within 200 to 500 meter from any crucial hydraulic structure such as pumping station, water intakes, and bridges. The exact distance should be ascertained by the local authorities based on local situation. The cross-section survey should cover a minimum distance of 1.0 km upstream and 1.0 km downstream of the potential reach for extraction. The sediment sampling should include the bed material and bed material load before, during and after extraction period. Develop a sediment rating curve at the upstream end of the potential reach using the surveyed cross- section. Using the historical or gauged flow rating curve, determine the suitable period of high flow that can replenish the extracted volume. Calculate the extraction volume based on the sediment rating curve and high flow period after determining the allowable mining depth.

i) Sand and gravel could be extracted from the downstream of the sand bar at river bends. Retaining the upstream one to two thirds of the bar and riparian vegetation is accepted as a method to promote channel stability.

Flood discharge capacity of the river could be maintained in areas where there are significant flood hazard to existing structures or infrastructure. Sand and gravel mining may be allowed to maintain the natural flow capacity based on surveyed cross- section history.

k) Alternatively, off-channel or floodplain extraction is recommended to allow rivers to replenish the quantity taken out during mining.

l) The Piedmont Zone (Bhabhar area) particularly in the Himalayan foothills, where riverbed material is mined, this sandy-gravelly track constitutes excellent conduits and holds the greater potential for ground water recharge. Mining in such areas should be preferred in locations selected away from the channel bank stretches.

m) Mining depth should be restricted to 3 meter and distance from the bank should be 3 meter or 10 percent of the river width whichever less.

The borrow area should preferably be located on the river side of the proposed embankment, because they get silted up in course of time. For low embankment less than 6 m in height, borrow area should not be selected within 25 m from the toe/heel of the embankment. In case of higher embankment the distance should not be less than 50 m. In order to obviate development of flow parallel to embankment, cross bars of width eight times the depth of borrow pits spaced 50 to 60 meters centre-to-centre should be left in the borrow pits.

o) Demarcation of mining area with pillars and geo-referencing should be done prior to start of mining.

iii. Enforcement & Monitoring Guidelines for sand Mining, 2020 (MoEF& CC)

a) The Ministry of Environment Forest & Climate Change formulated the Sustainable Sand Management Guidelines 2016 which focuses on the Management of Sand Mining in the Country. But in the recent past, it has been observed that apart from management and systematic mining practices there is an urgent need to have a guideline for effective enforcement of regulatory provision and their monitoring. Section 23 C of MMDR, Act 1957 empowered the State Government to make rules for preventing illegal mining, transportation and storage of minerals. But in the recent past, it has been observed that there was large number of illegal mining cases in the Country and in some cases, many of the officers lost their lives while executing their duties for curbing illegal mining incidence. The illegal and uncontrolled illegal mining leads to loss of revenue to the State and degradation of the environment.

b) Parts of the river reach that experience deposition or aggradation shall be identified. The Leaseholder/ Environmental Clearance holder may be allowed to extract the sand and gravel deposit in these locations to manage aggradation problem.

b) The distance between sites for sand and gravel mining shall depend on the replenishment rate of the river. Sediment rating curve for the potential sites shall be developed and checked against the extracted volumes of sand and gravel.

c) Sand and gravel may be extracted across the entire active channel during the dry season.

d) Abandoned stream channels on the terrace and inactive floodplains be preferred rather than active channels and their deltas and flood plains. The stream should not be diverted to form the inactive channel.

e) Layers of sand and gravel which could be removed from the river bed shall depend on the width of the river and replenishment rate of the river.

f) Sand and gravel shall not be allowed to be extracted where erosion may occur, such as at the concave bank.

g) Segments of the braided river system should be used preferably falling within the lateral migration area of the river regime that enhances the feasibility of sediment replenishment.

h) Sand and gravel shall not be extracted up to a distance of 1 kilometre (1 km) from major bridges and highways on both sides, or five times (5x) of the span (x) of a bridge/public civil structure (including water intake points) on up-stream side and ten times (10x) the span of such bridge on down-stream side, subjected to a minimum of 250 meters on the upstream side and 500 meters on the downstream side.

i) The sediment sampling should include the bed material and bed material load before, during and after the extraction period. Develop a sediment rating curve at the upstream end of the potential reach using the surveyed cross-section. Using the historical or gauged flow rating curve, determine the suitable period of high flow that can replenish the extracted volume. Calculate the extraction volume based on the sediment rating curve and high flow period after determining the allowable mining depth.

j) Sand and gravel could be extracted from the downstream of the sand bar at river bends. Retaining the upstream one to two-thirds of the bar and riparian vegetation is accepted as a method to promote channel stability.

k) The flood discharge capacity of the river could be maintained in areas where there is a significant flood hazard to existing structures or infrastructure. Sand and gravel mining may be allowed to maintain the natural flow capacity based on surveyed cross-section history. Alternatively, off-channel or floodplain extraction is recommended to allow rivers to replenish the quantity taken out during mining.

l) The Piedmont Zone (Bhabhar area) particularly in the Himalayan foothills, where riverbed material is mined, this sandy-gravelly track constitutes excellent conduits and holds the greater potential for groundwater recharge. Mining in such areas should be preferred in locations selected away from the channel bank stretches.

m) Mining depth should be restricted to 3 meters and distance from the bank should be ¼th or river width and should not be less than 7.5 meters.

n) The borrow area should preferably be located on the riverside of the proposed embankment because they get silted in the course of time. For low embankment, less than 6 m in height, borrow area should not be selected within 25 m from the toe/heel of the embankment. In the case of the higher embankment, the distance should not be less than 50 m. In order to obviate the development of flow parallels to the embankment, crossbars of width eight times the depth of borrow pits spaced 50-to-60-meter center-to-center should be left in the borrow pits.

o) Demarcation of mining area with pillars and geo-referencing should be done prior to the start of mining.

p) A buffer distance /un-mined block of 50 meters after every block of 1000 meters over which mining is undertaken or at such distance as may be the directed/prescribed by the regulatory authority shall be maintained.

q) A buffer distance /unmined block of 50 meters after every block of 1000 meters over which mining is undertaken or at such distance as may be the directed/prescribed by the regulatory authority shall be maintained.

r) River bed sand mining shall be restricted within the central 3/4th width of the river/rivulet or 7.5 meters (inward) from river banks but up to 10% of the width of the river, as the case may be and decided by regulatory authority while granting environmental clearance in consultation with irrigation department. Regulating authority while regulating the zone of river bed mining shall ensure that the objective to minimize the effects of riverbank erosion and consequential channel migration are achieved to the extent possible. In general, the area for removal of minerals shall not exceed 60% of the mine lease area, and any deviation or relaxation in this regard shall be adequately supported by the scientific report.

s) Mining Plan for the mining leases(non-government) on agricultural fields/Patta land shall only be approved if there is a possibility of replenishment of the mineral or when there is no riverbed mining possibility within 5 KM of the Patta land/Khatedari land. For government projects mining could be allowed on Patta land/Khatedari land but the mining should only be done by the Government agency and material should not be used for sale in the open market.

The minerals reserve for riverbed area is calculated on the basis of maximum depth of 3 meters and margins, width and other dimensions as mentioned in para (s) above. The area multiplied by depth gives the volume and volume multiplied with bulk density gives the quantity in Metric Ton. In case of riverbed, mineable material per hectare area available for actual mining shall not exceed the maximum quantity of 60,000 MT per annum.

2.1.1 Demand and Utilisation of Sand

Sand is a multi-purpose topographical material. It is known as one of the three fundamental ingredients in concrete. The composition of sand is diverse. Mostly sand is made of silica which is a common element. It can also come from another source of minerals like quartz, limestone, or gypsum.

From beds to flood plains to coastlines- we can find the sand at almost everywhere. The robustness of sand has played a significant role in everyday life. We use sand practically every other day.

Sand extraction from river beds and brick earth mining for making raw bricks are the main mining activities in the district. With a spurt in construction of real



estate sectors and various govt. sponsored projects, the demand for both sand and bricks has increased manifold. The extraction of sand is carried out either manually or through semi- mechanized system. The depth of mining for both river bed sand and brick earth are restricted due to statutory provision in the regulations pertaining to conservation and development of minor minerals.

River sand mining is a common practice as habitation concentrates along the rivers and the mining locations are preferred near the markets or along the transportation route, for reducing the transportation cost.

In the real world, there are a lot of situations where we can find uses of sand. Followings are the common sand uses.

1. While bunging metal, we can mix sand with clay binder for frameworks used in the foundries.
2. Sand can be used for cleaning up oil leak or any spill by dredging sand on that spill. The material will form clumps by soaking up, and we can quickly clean the mess.
3. Sand can be used as a road base which is a protective layer underneath all roads
4. Industrial sand is used to make glass, as foundry sand and as abrasive sand.
5. One creative usage of sand is serving as a candle holder. We can try putting some sand before pouring tea light or any candle in a glass. It holds the candle still and refrain the candle from rolling by giving it an excellent decoration.
6. Adds texture and aesthetic appeal to space.
7. Sand is mostly pure to handle, promptly available and economically wise.
8. We use sand in aquariums, fabricating artificial fringing reefs, and in human-made beaches.
9. Sandy soils are ideal for growing crops, fruits and vegetables like watermelon, peaches, peanuts, etc.
10. Sand can light a path by filling mason jars with sand and tea light which is another inexpensive way to make a walkway glow.
11. Sand helps to improve resistance (and thus traffic safety) in icy or snowy conditions.
12. We need sand in the beaches where tides, storms or any form of preconceived changes to the shoreline crumble the first sand.
13. Sand containing silica is used for making glass in the automobile and food industry- even household products for the kitchen.
14. Sand is a strong strand which is used for plaster, mortar, concrete, and asphalt.
15. The usual bricks formulated of clay only are way weaker and lesser in weight than blocks made of clay mixed with sand.

2.2 Methodology of DSR Preparation

The steps followed during the preparation of District Survey Report are given in Figure 2.1. The individual steps are discussed in following paragraphs.



Figure No.2.1: Steps followed in preparation of DSR.

2.2.1 Data source Identification: District Survey Report has been prepared based on the Primary data base and secondary data base collated from different sources. This is very critical to identify authentic data sources before collating the data set. The secondary data sources which are used in DSR are mostly Government published data based or the published report in reputed journal. District profile has been prepared based on the District Statistical handbook published by West Bengal Government as well as District Census 2011. Potential mineral resources have been described based on GSI or any other govt. agencies work done. Mining lease details and the revenue generated from minor minerals has been prepared based on available data from DL&LRO offices of the district. Satellite image has been used for map preparation related to physiography and land utilization pattern of the district.

2.2.2 Data Analysis and Map preparation: Dataset which are captured during the report preparation, are gone through detail analysis work. District Survey Report involves the analytical implication of captured dataset to prepare relevant maps. Methodology adopted for preparation of relevant maps is explained below.

Land Use and Land Cover Map: Land Use and Land Cover classification is a complex process and requires consideration of many factors. The major steps of image classification may include determination of a suitable classification system via Visual Image Interpretation, selection of training samples, Satellite image (FCC-False Colour Composite) pre-processing, selection of suitable classification approaches, post-classification processing, and accuracy assessment.

Here **ISRO RESOURCE Sat 2 LISS III Sensor, 2020** satellite Imagery has been taken for Supervised Classification as supervised classification can be much more accurate than unsupervised classification, but depends heavily on the training sites, the

skill of the individual processing the image, and the spectral distinctness of the classes in broader scale.

According to the Visual Image Interpretation (Tone, Texture, Colour etc.) training set of the pixel has been taken. Pictorial descriptions of Land Use classification are explained in Figure 2.2.

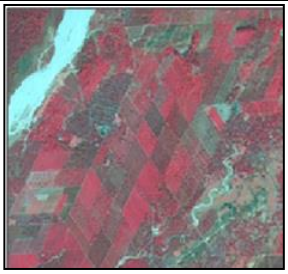
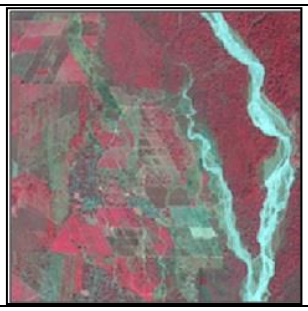
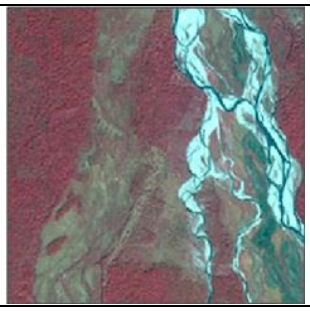
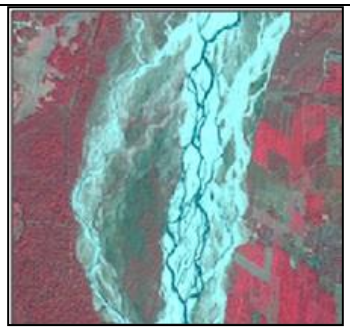
	
Agricultural Land - Based on their Geometrical shape, Red and Pink colour tone, Agricultural Land has been identified.	**Vegetation Covered Area** - Based on their continuous Red colour tone, Vegetation Covered Area has been identified.
	
Agricultural Fallow Land - Based on their Geometrical shape, Light and dark cyanwith light pink colour tone, Agricultural Land has been identified.	**Bad Land Topography**- Light Yellowish mixed with cyan colour has been identified as Bad Land Topography.
	
Settlement – Area with Cyan Colour including geometrical shape has been recognised as Settlement Area.	**Water Bodies –** Dark blue colour has been classified as Water Bodies.

Figure No.2.2: Pictorial description of Land Use Classification methods

Geomorphological Map:

The major steps of preparing Geomorphological Map is identifying features like – Alluvial Fan, Alluvial Plain, Hilly Region etc. from Satellite Imagery (FCC-False Colour Composite) via Visual Image Interpretation and then digitization has been taken into the consideration to prepare map including all the Geomorphological features according to their location. Pictorial descriptions of Geomorphological unit's classification are explained in Figure 2.3.

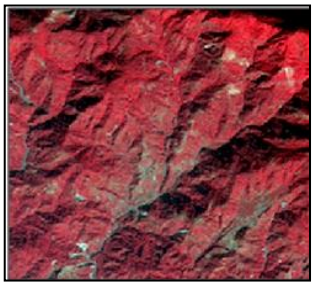
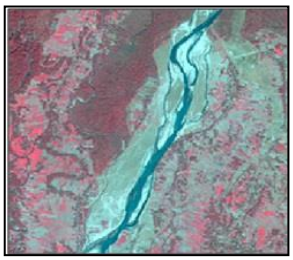
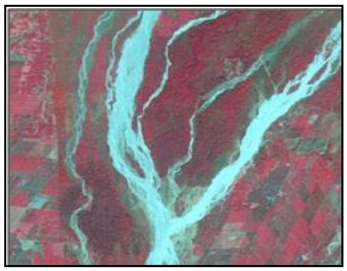
		
Hilly Region – Hilly Region has been identified based on their elevation and sharp edges of the elevated land.	**Alluvial Plain**- In satellite Imagery the flat land has been identified as Alluvial Plain just below the Alluvial Fan.	**Alluvial Fan** – A fan based deposition formed by stream where the velocity is abruptly decreased. In satellite Imagery this has been identified just below the hilly region.

Figure No.2.3: Pictorial description of Geomorphological Units Classification methods

Physiographical Map:

The major step of preparing Physiographical Map is generating contour at a specific interval to show the elevation of the area using Cartosat DEM.

Block Map:

- Raw Data collected from **National Informatics Centre (NIC Website) during Sept 2020.**
- Data has been geo-referenced using GIS software.
- Digitization of block boundary, districtboundary, state boundary, international boundary, and district headquarter, sub –district headquarter, places, road, railway, river, nala etc.
- Road name, River name, Railway name has been filled in attribute table of the Layers
- Final layout has been prepared by giving scale, legend, north arrow, etc.



Transportation Map:

- Raw Data collected from **National Informatics Centre (NIC Website) during Sept 2020.**
- Data has been geo-referenced using GIS software.
- Digitization of block boundary, district boundary, state boundary, international boundary, and district headquarter, sub –district headquarter, places, road, railway, river, nala etc.
- Road name, River name, Railway name has been filled in attribute table of the Layers
- Final layout has been prepared by giving scale, legend, north arrow, etc.

Drainage Map:

- Raw Data collected from **National Informatics Centre (NIC Website) during Sept 2020**.
- Data has been geo-referenced using GIS software.
- Digitization of block boundary, district boundary, state boundary, international boundary, and district headquarter, sub –district headquarter, places, road, railway, river, nala etc.
- Road name, River name, Railway name has been filled in attribute table of the Layers
- Final layout has been prepared by giving scale, legend, north arrow, etc.

Earthquake Map:

- Raw data collected from **Ministry of Earth Science.**
- Data has been geo-referenced using GIS software.
- Digitization of Earthquake zone and superimposed it over Block Boundary.
- Zone name has been filled in attribute table of the Layers
- Final layout has been prepared by giving scale, legend, north arrow, etc.

Soil Map:

- Raw data collected from **National Bureau of Soil Survey and Land Use Planning during Sept 2020.**
- Data has been geo-referenced using GIS software.
- Digitization of Soil classification zone and superimposed it over District Boundary.
- Soil classification has been filled in attribute table of the Layers.
- Final layout has been prepared by giving scale, legend, north arrow, etc.

Wildlife Sanctuary and National Park location Map:

- Raw data collected from **ENVIS Centre on Wildlife & Protected Areas during August 2020.**
- Data has been geo-referenced using GIS software.
- Digitization of Wildlife Sanctuary and National Park and superimposed it over Block Boundary.
- Wildlife Sanctuary & National Park name has been filled in attribute table of the Layers

Final layout has been prepared by giving scale, legend, north arrow, etc.

2.2.3 Primary Data Collection: To prepare DSR, capturing primary data or field data has also been carried out in the district. Field study involves assessment of the mineral resources of the district by means of pitting / trenching in specific interval. This provides clear picture of mineral matters characterization and their distribution over the area.

2.2.4 Replenishment study: One of the principal causes of environmental impacts from in-stream mining is the removal of more sediment than the system can replenish. Therefore, there is a need for replenishment study for river bed sand in order to nullify the adverse impacts arising due to excess sand extraction. The annual rate of replenishment carried out on every river of the district to have proper assessment of the sand reserve for mining purposes.

Physical survey has been carried out by GPS/DGPS/Total Station to define the topography, contours and offsets of the riverbed. The surveys clearly depict the important attributes of the stretch of the river and its nearby important civil and other feature of importance. This information will provide the eligible spatial area for mining.

2.2.5 Report Preparation: The district survey report portrays general profile, geomorphology, land use pattern and geology of the district. The report then describes the availability and distribution of riverbed sands and other minor minerals in the district. Apart from delineation the potential mining blocks, the report also includes inventorization of the minerals, recent trends of production of minor minerals and revenue generation there from. Annual replenishment of the riverbed sand has been estimated using field observation, satellite imagery and empirical formula. The road network connecting arterial road to potential mining blocks has been identified. Potential environmental impacts of mining of these minerals, their mitigation measures along with risk assessment and disaster management plan have also been discussed. Finally the reclamation strategy for already mined out areas is also chalked out.

3. General Profile of the district

a) General Information

Alipurduar is the newly created District of West Bengal. It became 20th district of West Bengal on 25thJune, 2014. Alipurduar the second largest Sub-Division was created on 7th July 1876. The Late Colonel Hedayet Ali Khan was the first Assistant Commissioner of Alipurduar and it was named after him. This district consists of six blocks namely 1) Kumargram, 2) Kalchini, 3) Alipurduar-I, 4) Alipurduar-II, 5) Falakata, 6) Madarihat-Birpara and two Municipalities i.e. Alipurduar Municipality & Falakata Municipality covering 2566.85 Square Kilometer area and its population is more than 7olakh. (***Source:*** **https://alipurduar.gov.in/aboutus.html**)

The district has its headquarters at Alipurduar. The nine census towns are Paschim Jitpur, Chechakhata, BholarDabri, Sobhaganj, Falakata, Alipurduar railway junction, Jaygaon and Uttar Latabari and Uttar Kamakhyaguri.Alipurduar is a Multi-lingual district of West Bengal where Bengali, Hindi, English, Sadri, Oraon, Munda, Kharia, Boro Santal language are spoken and different communities of Tribes are found here. Geographically the district lies in between 26.4°N to 26.83°N and 89°E to 89.9°E. (***Source:*** **https://en.wikipedia.org/wiki/Alipurduar_district**)

A location map of Alipurduar District is furnished as Figure No. 3.1.

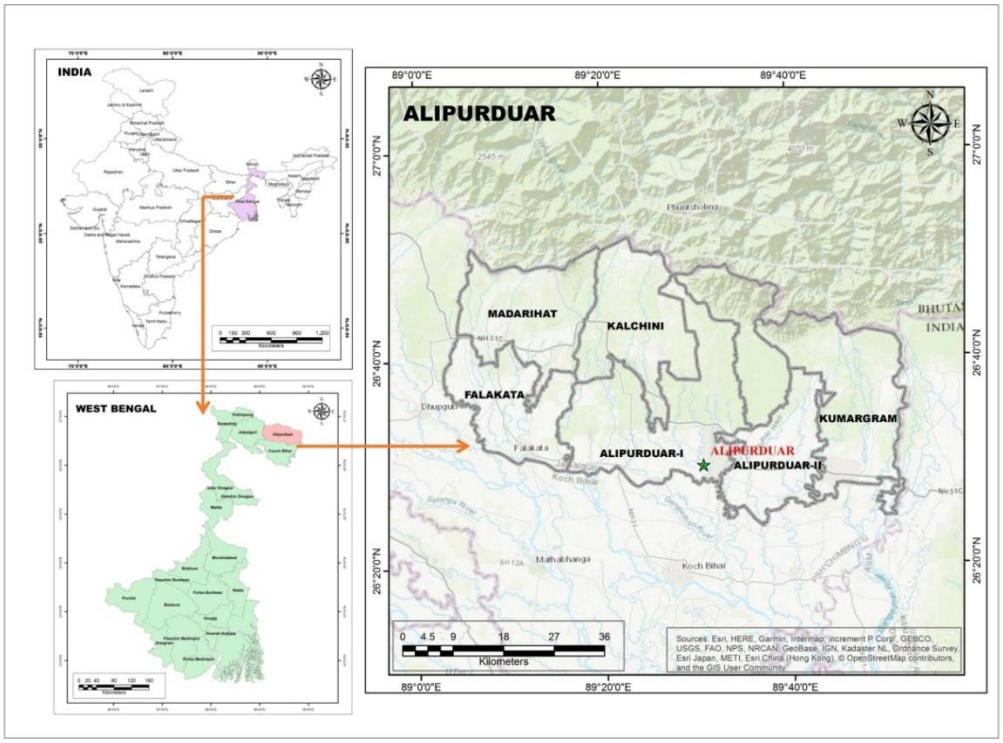


Figure No. 3.1: Location map of Alipurduar district *(Source: NIC Bharat Map)*

Alipurduar is a district of North Bengal. It is bounded by Jalpaiguri District in the West, Coochbehar District in the South, Assam state in the East, in the north the district shares an international border line with Bhutan. (***Source:*** **https://alipurduar.gov.in/aboutus.html**).

A Block map of Alipurduar District is furnished as Figure No.3.2.

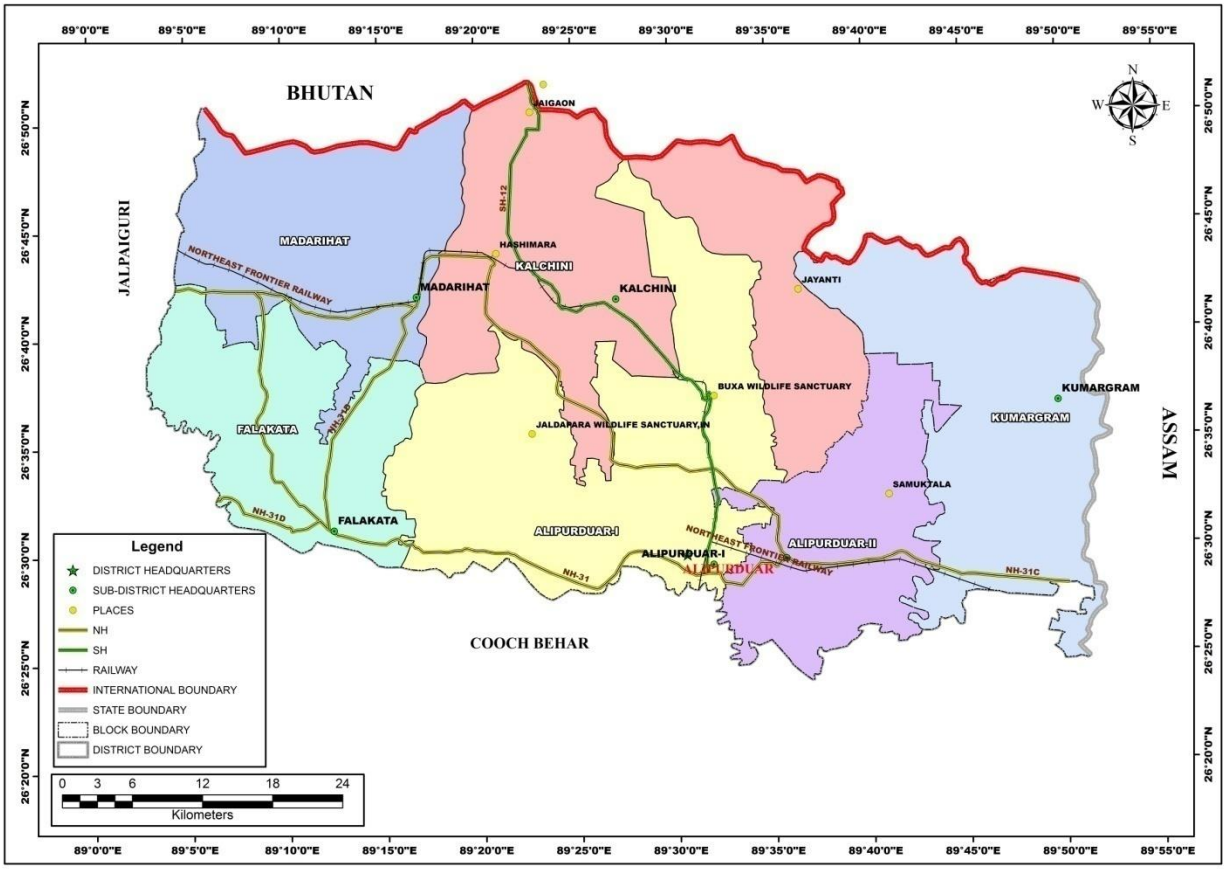


Figure No. 3.2: Block map of Alipurduar district *(Source: NIC Bharat Map)*

Total geographical area of the district is 3136Sq km. This district consists of six blocks namely 1) Kumargram, 2) Kalchini, 3) Alipurduar-I, 4) Alipurduar-II, 5) Falakata, 6) Madarihat-Birpara. The six blocks contain 66 gram panchayats and nine census towns.The district has its headquarters at Alipurduar.The district enjoys a strategically important location as it serves as a corridor of trade and communication with the Bhutan and various northeastern States of India. (***Source:*** **https://alipurduar.gov.in/aboutus.html**)

Detail of Block of Alipurduar Details is furnished in Table No.3.1.

Table No. 3.1: Details of Block of Alipurduar District

(Source: Census, 2011)

Sub Division	Police Station	Block	Block HQ	Distance from Alipurduar HQ	No of Gram panchayat	No of inhabited villages	Area Sq. Km.
Alipurduar	Alipurduar	Alipurduar-I	Panchkhalguri	39 kms	11	48	681.40
	Shamuktala	Alipurduar –II	Alipurduar	15 kms	11	79	363.68
	Falakata	Falakata	Falakata	37 kms	12	63	388.37
	Kumargram	Kumargram	Kumargram	50 kms	11	55	547.20
	JaigaonKalchini	Kalchini	Hamiltonganj	30 kms	11	43	703.57
	MadarihatBirpara	MadarihatBirpara	Madarihat	50 kms	10	50	451.78

b)Climate Condition

Alipurduar district experiences subtropical climate, which is characterized by hot summer from March to May and well distributed rain fall during southwest monsoon from June to October. Winter season in the area is marked by dry and cold weather during the month of November to February. Normal average rain-fall of this area is 1500 - 1800 mm. Number of rain-fall days is about 72 (February to October). Maximum temperature ranges between 31° C - 35° C with minimum temperature between 6.8-9.5° C. In general, climate of this station is hot and humid. (***Source: https://en.climate-data.org***)

c) Rainfall and Humidity

Details of rainfall data of five years (from 2016 to 2020) is furnished in Table No.3.2.

Table No. 3.2: Details of rainfall data of five years (from 2016 to 2020)

(Source: Customized Rainfall Information System (CRIS), Hydromet Division, India Meteorological Department)

YEAR	JAN		FEB		MAR		APR		MAY		JUN	
	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP
2016	7.3	-21	2	-89	100.1	152	125	5	273.1	-20	1021.9	53

YEAR	JAN		FEB		MAR		APR		MAY		JUN	
	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP
2017	1.9	-79	0.8	-95	83.8	111	101.3	-15	287.4	-15	631	-5
2018	0.1	-99	1	-94	47.2	19	140	17	448.5	32	672.9	1
2019	0.7	-92	21.3	-4	50.6	5	136.8	-14	270.3	-20	639.6	-11
2020	4.8	-44	31.2	41	54.6	13	159.9	1	363.7	7	971.7	35
YEAR	**JUL**		**AUG**		**SEPT**		**OCT**		**NOV**		**DEC**	
	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP
2016	1201.8	29	224.7	-67	679.2	39	238.7	49	0	-100	0.3	-96
2017	569.7	-39	1167.3	74	596.1	22	204.4	28	2.8	-84	1.2	-83
2018	745.2	-20	571.7	-15	799.9	64	90.9	-43	2.6	-86	4.7	-35
2019	1253.5	31	306.3	-54	628.3	28	128.8	-27	3.1	-81	2.7	-62
2020	1516.8	58	605	-9	1145.1	133	112.4	-36	8.6	-49	1.7	-76

Note: (1) The District Rainfall in millimeters (R/F) shown below are the arithmetic averages of Rainfall of Stations under the District.
(2) % Dep. are the Departures of rainfall from the long period averages of rainfall for the District.
(3) Blank Spaces show non-availability of Data.

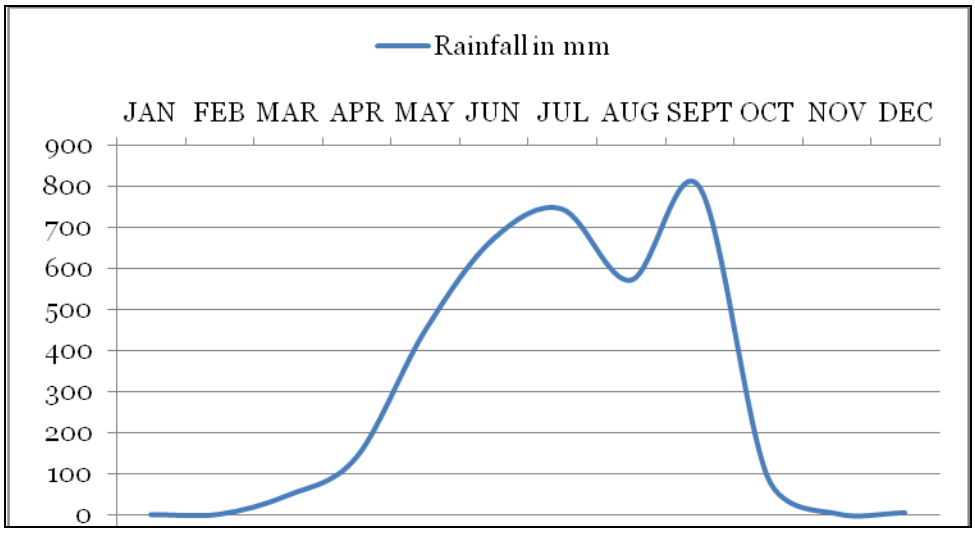


Figure No. 3.3: Graphical representation of Rainfall distribution of year 2020 of Alipurduar District

i. Temperature

Monthly average temperature distribution of Alipurduar District is furnished in Table No. 3.3.

Table No. 3.3: Monthly average temperature distribution of Alipurduar District

(Source: Climate-Data.Org)

	January	February	March	April	May	June	July	August	September	October	November	December
Avg. Temperature (°C)	17	19.4	23.4	26.1	27	27.6	28.3	28.6	28.1	26.2	21.8	18.8
Min. Temperature (°C)	10.5	12.6	16.7	20.4	22.8	24.3	25.4	25.7	24.9	22	15.9	12.6
Max. Temperature (°C)	23.6	26.2	30.1	31.8	31.2	30.9	31.2	31.5	31.4	30.5	27.8	25.1

ii. Humidity, Wind speed & Wind direction

The entire district experiences a high relative humidity. The relative humidity is ranging from 82 - 92% during the monsoons. The drier months of March and April are less humid with the relative humidity ranging between 55% - 65%.

Surface winds of Alipurduar District are generally from the NW during the winter months. But during summer the wind direction is from the S. During the monsoon, the prevailing direction is from SE. At Alipurduar, the average wind speed does not generally exceed 9 Km/hour.

(***Source: https://wanderlog.com/weather***)

d)Topography & Terrain

The topography of the land is cut across by rivers, streams and hills, and covered with tea gardens and forests. Topography of the district wears a mixed look-consisting both of hilly areas and undulating vast plain.

The western part is slightly undulating and covered by paddy fields and bushy jungles, while the eastern part of the district presents a flat strip of land. There are numerous rivers in the district and except the Torsa, which originates from Tibet, all others originate from Sikkim, Bhutan and Darjeeling hills and drain north-southern part of the district. The whole region is full of tea gardens and scatter forests. The entire topography is crisscrossed with streams, rivers and hills. The district

topography wears a mixed look consisting both of hilly areas and undulating plains coupled with vast flat plains.

A Physiographic map of Alipurduar District is furnished as Figure No.3.4.

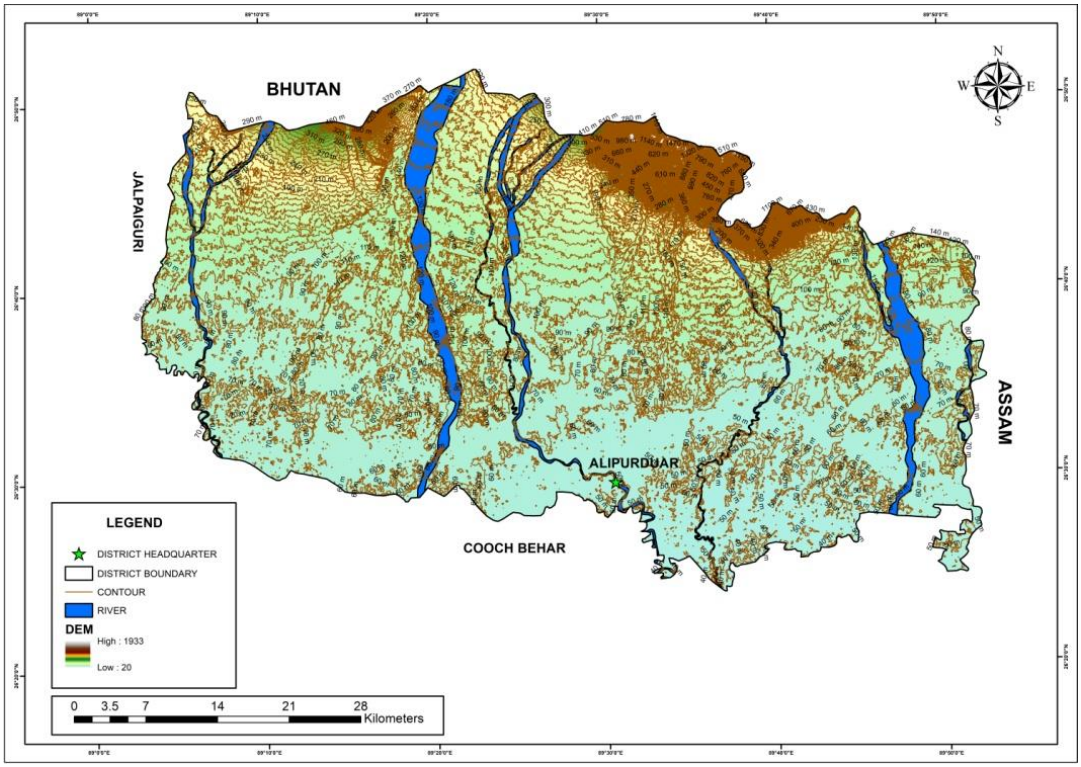


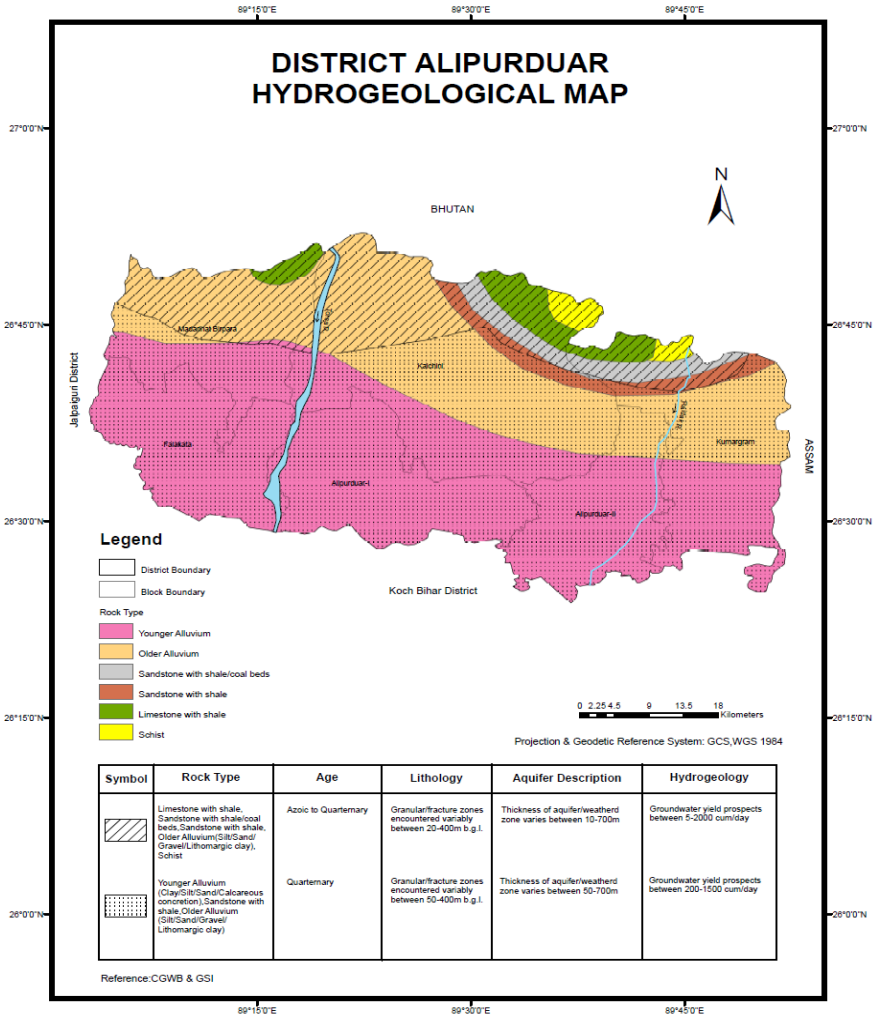
Figure No. 3.4: Physiographic map of Alipurduar district
(Source: Cartosat Dem)

Three distinct physiographic units can be identified in the district (a) the northern hilly terrain which is a part of the sub-Himalayan Ranges, (b) the central tract, locally called Bhaber and (c) the gently sloping alluvial plain in the south locally called Terai. ***(Source: Census, 2011)***.

The above physiographic map of the Alipurduar District depicts a huge elevation variation from North to South. The elevation varies from 150 to 1550 m in the northern part and from 40 to 10m in the southern part. Variation of elevation between eastern part and western part of the district is less. Eastern part of district shows average 30m of elevation, whereas Western part of the district shows 65m of elevation.

e) Water Course &Hydrology

Hydrological condition at a particular point is guided by topography, geology, and rainfall of the region. Hydrological characteristics also have changed from last decade in this region.



Symbol	Rock Type	Age	Lithology	Aquifer Description	Hydrogeology
	Limestone with shale, Sandstone with shale/coal beds,Sandstone with shale, Older Alluvium(Silt/Sand/ Gravel/Lithomargic clay), Schist	Azoic to Quarternary	Granular/fracture zones encountered variably between 20-400m b.g.l.	Thickness of aquifer/weatherd zone varies between 10-700m	Groundwater yield prospects between 5-2000 cum/day
	Younger Alluvium (Clay/Silt/Sand/Calcareous concretion),Sandstone with shale,Older Alluvium (Silt/Sand/Gravel/ Lithomargic clay)	Quarternary	Granular/fracture zones encountered variably between 50-400m b.g.l.	Thickness of aquifer/weatherd zone varies between 50-700m	Groundwater yield prospects between 200-1500 cum/day

Figure No. 3.5: Hydrogeological map of Alipurduar district

(Source: wbwridd.gov.in)

Rock types of the upper part of this region are Limestone with shale, sandstone with shale/coal beds, sandstone with shale, older Alluvium (Ailt/Sand/Gravel/Lithomergic Clay) and schist and Younger Alluvium (Clay/Silt/Sand/Calcareous concretion), Sandstone with shale and older Alluvium (Silt/Sand/Gravel/Lithomargic Clay) in the lower part. Upper part of the district is of Azoic to Quarternary age and Lower part is of Quarternary age. Granular/fracture zones are encountered within 20-400 m bgl in the Northern part and 50-400m bgl in the southern part. Thickness of aquifer zone varies between 10-700m in North whereas in South it varies between 50-700m. (***Source: Hydrogeological map of Alipurduar***)

f) Ground Water Development:

Under uniformly excellent water aquifer condition groundwater simulates topography. Most of the aquifer is semi-confined and unconfined in this belt. The region spanning form east to west where as to the North to South, depth to water level increase gradually. The groundwater table coincides with the surface water, so many rivers originate from the groundwater in this region. In monsoon period ground water level upper than surface water, this causes more danger for contamination.

Ground water level and water quality of the region varies from pre to post monsoon period due to recharge of rainfall.

Depth of water in wells measured by CGWB at 20 locations in district varied from 1.05 to 19.72 m bgl during pre-monsoon period and 1.05 to 19.72 m bgl during post-monsoon period.

(***Source:*** ***https://indiawris.gov.in/wris/#/groundWater%20(CGWB%20website%20for%20Ground%20water%20data)***

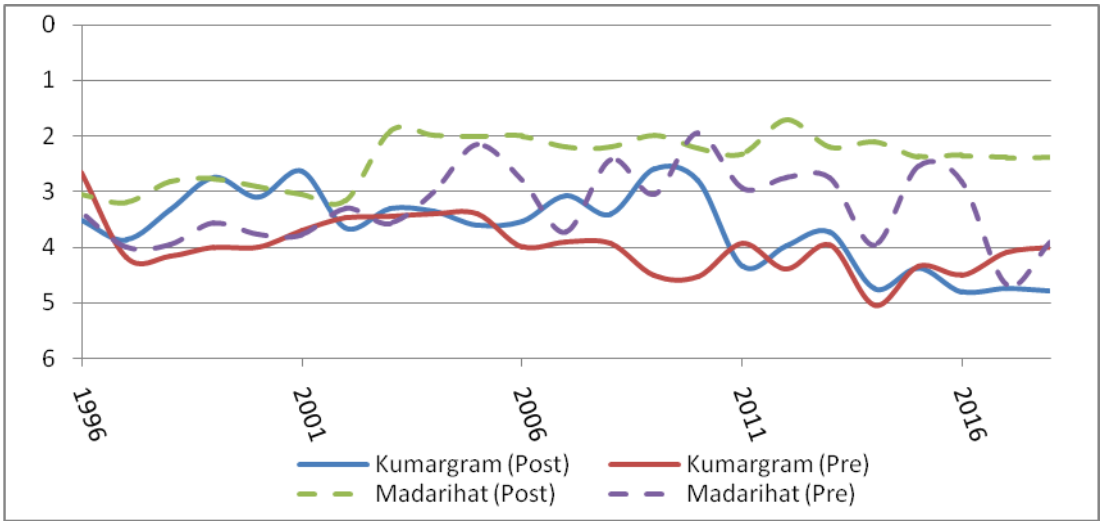
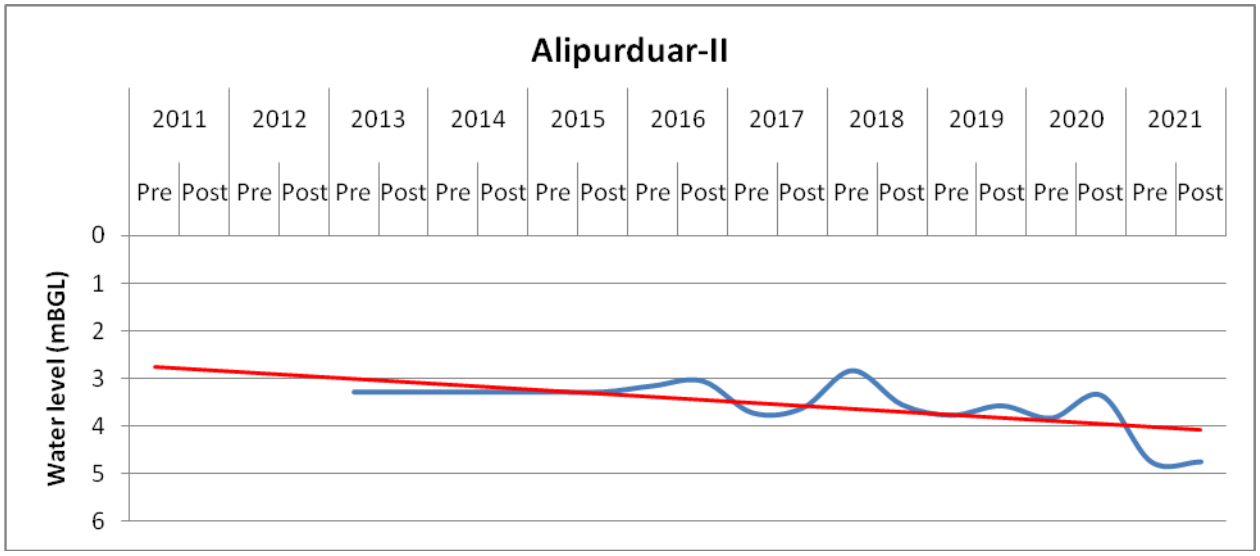
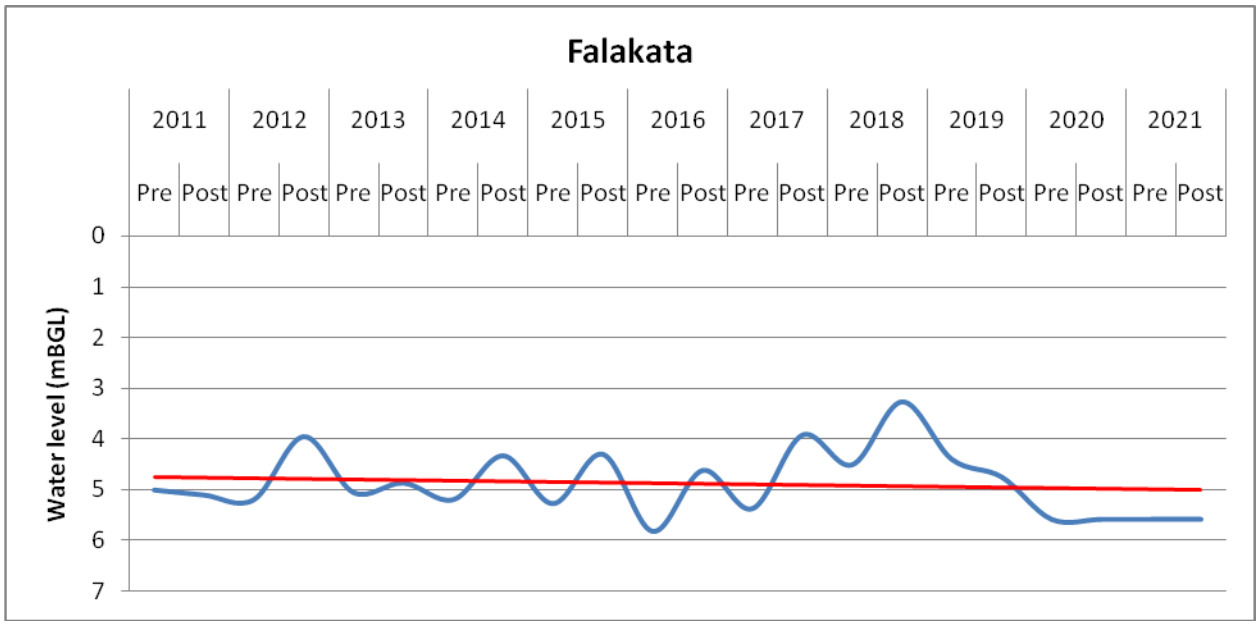


Figure No. 3.6: Graphical representation of two wells data for pre-monsoon and post-monsoon period

Hydrographs showing variation in water level observed in between 2011 to 2021 in the district is given below.





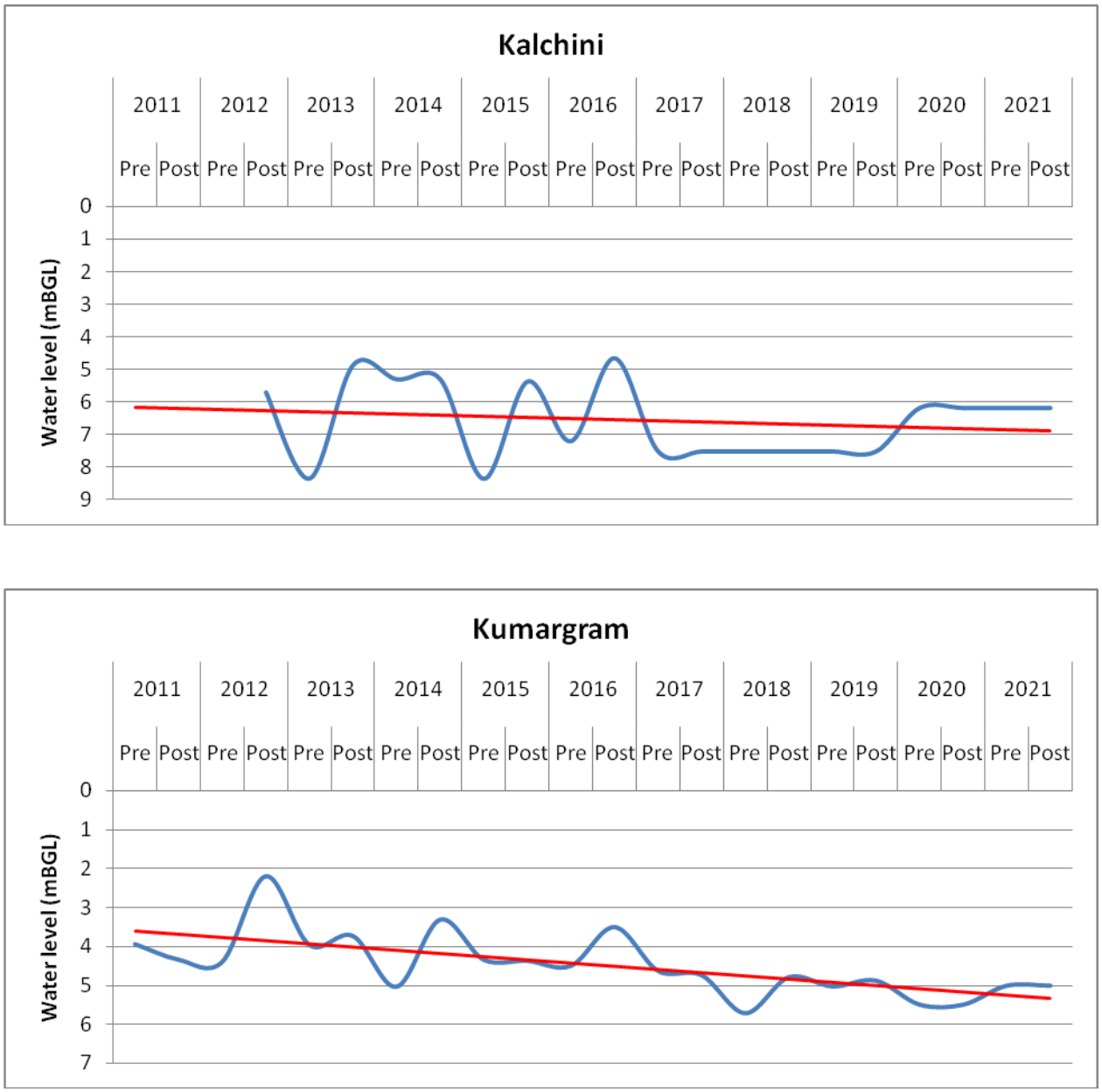


Figure 3.7: Block wise Hydrograph showing variation of water level during 2011 to 2021

g) Drainage System

A large of number of rivers and rivulets originate from the hilly areas of adjacent Bhutan and there is a network of rivers cross-crossing the entire region. The major rivers are Torsa, Kaljani, Raidak, Jayanti and Sankosh. The rivers often overflow their banks depositing layers of fertile soil on the banks on either side.

A Drainage map of Alipurduar District is furnished as Figure No.3.8 as well as in Annexure 1.

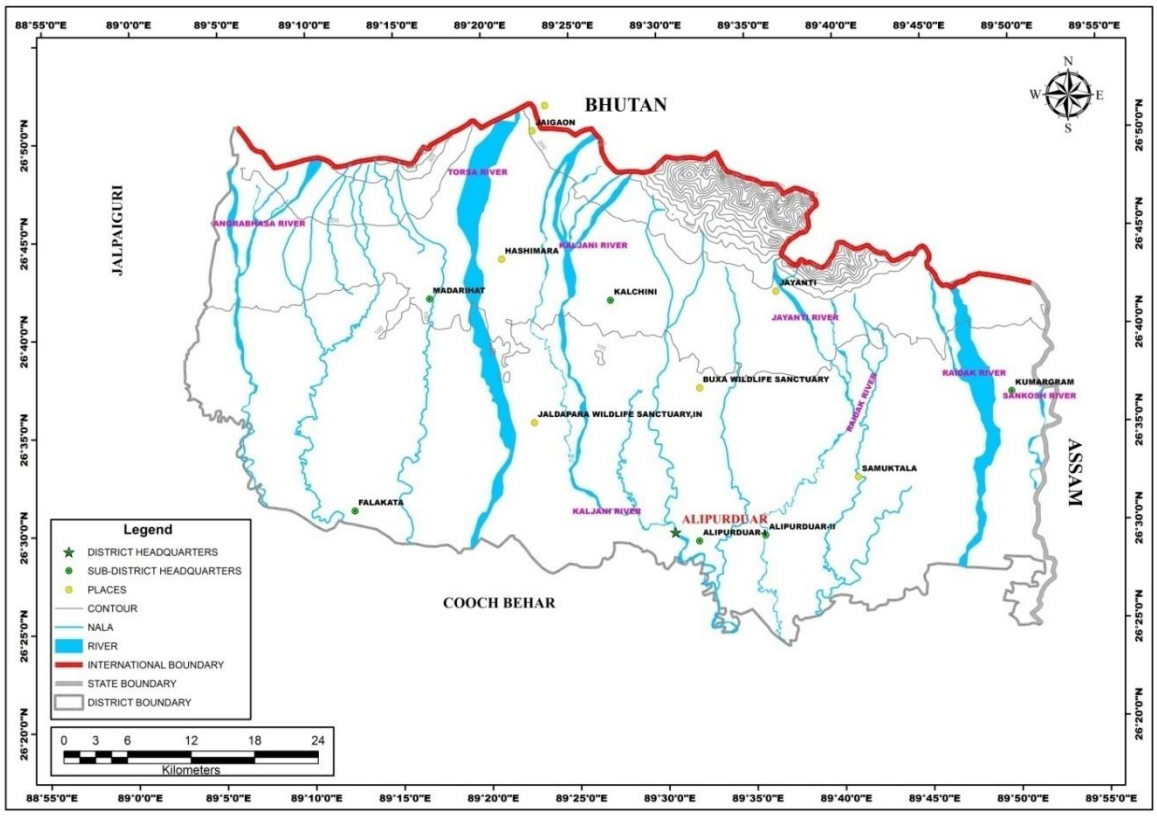


Figure No. 3.8: Drainage map of Alipurduar district *(Source: NIC Bharat Map)*

Table No. 3.4: Details of major rivers of Alipurduar District

Name of the River	Length with in district (km)	Width (Km)	Colour of Sand	Regime
TORSA RIVER	43	2-3	Whitish	Upper & Middle regime
KALJANI RIVER	69	1-2.5	Whitish	Middle & Lower regime
RAIDAK RIVER	58	2-3	Whitish	Middle & Lower regime
JAYANTI RIVER	55	1-2	Whitish	Middle & Lower regime
SANKOSH RIVER	25	1-2	Whitish	Middle & Lower regime

Floods in district Alipurduar:

Special mention must be made about the occurring of floods in the Alipurduar district. These districts are flood-prone and three main reasons for floods in these districts are excessive rainfall of small duration on small catchments, continuous rainfall for several days on bigger catchments and the district being situated in the Himalayan foothills and being crisscrossed by the Himalayan rivers. It is observed that the melted snow of the high mountains also causes overflowing the perennial rivers which adds to the worry of common people. History reveals that the district hasn't escaped from the floods in any single decade. All the riverbeds in the district have risen to the height of 1 to 2.5 m in between 1985 and 1999. Ruthless river bank erosion has caused diversion of the course of almost all the rivers between 1993 and 1999. The riverbeds of the district have expanded by 2 to 4 times in the last 100 years and if the destruction of the environment continues at the present rate, probably by the year 2050, creation of a coalescing mega valley consisting of some rivers within the radius of 3 to 15 km. at the Himalayan foothills is obvious. This would mean forever destruction of two-third of the tea gardens and forestry of these districts (***Source: Census, 2011***).

h) Demography

The district encompasses a geographical area of 3136sq km and has a population of 1426018 (persons) including 732395 males and 693623 females. Sex ratio of Alipurduar District is about 948/1000. Population density of the district is about 539/sq.km. The major religions in the district are Hindu and Buddhist of the total population. The literacy rate in the district is 63.72% (persons), 69.80% males and 57.30% females. Official languages of the district are Bengali and English. Regional languages are Bengali, Hindi, Bodo & Nepali. Main livelihood is agriculture in Alipurduar District. Boro, Mech, Toto and Santhal are main tribes of this district. (***Source: Census, 2011***).

In Table 3.5 representing Alipurduar district demographic profile modified based on 2011 census. Figure 3.9 and 3.10 representing block wise population distribution and literacy rate respectively for Alipurduar district.

Table No. 3.5: Demographic statistics of Alipurduar District

Block	Number of Household	Population	Male	Female	Literacy (%)	Percent of population to district population (%)
Madarihat	44149	202026	101536	100490	59.59	43.13
Kalchini	62737	298458	154829	143629	60.96	11.93
Kumargram	44997	199609	102592	97017	63.79	12.75
Alipurduar - I	50211	216931	111378	105553	67.63	11.40
Alipurduar - II	52032	218272	112434	105838	67.06	7.04
Falakata	65571	290722	149626	141096	63.93	13.75
TOTAL	**319697**	**1426018**	**732395**	**693623**	**63.72**	**143.24**

(Source: Census, 2011)

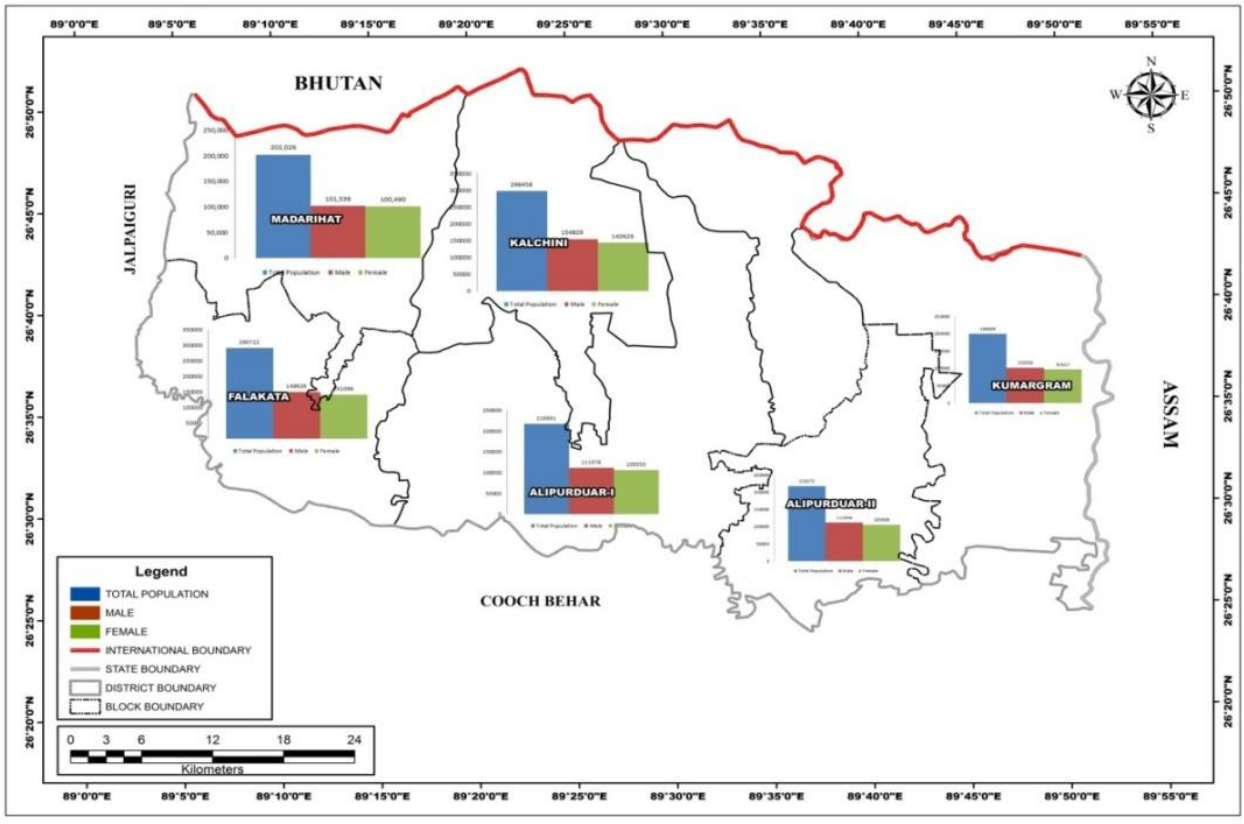


Figure No. 3.9: Block-wise population distribution in Alipurduar District
(Source: Census, 2011)

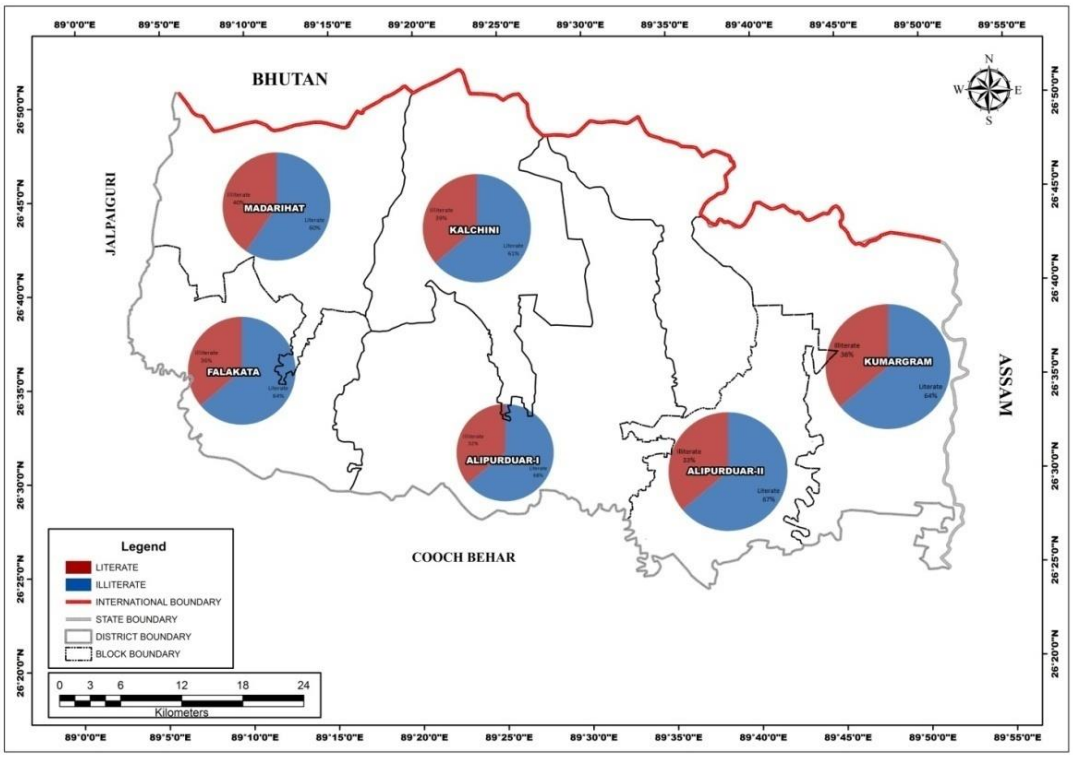


Figure No. 3.10: Demographic map showing Block-wise Literacy rate of Alipurduar District *(Source: Census, 2011)*

i) Cropping pattern

The majority of the people of the district are engaged in agriculture. The economy of the district is mainly dependent on agriculture and plantation activity. Rice is the principal crop of the district. Other important crops are paddy, jute, tobacco, mustard seeds, sugarcane and wheat. Three varieties of rice viz. *aus*, *aman*and*boro* are grown. Gradually more and more areas are coming under wheat production in the district. Pulses like *musur*, *mug*, gram, *maskalai*, *khesari* and *arhar* are also grown. Alipurduar is famous for its tea and timber. Tea stands as the most valuable crop of the district.

j) Land Form and Seismicity

Northern part of the district is little hilly in nature. The western part of the district falls under the Seismic Zone IV (in a scale of I to V in ascending order of propensity f Seismic Activity), making it very prone to the earthquakes (Source: Census, 2011) and the eastern part of the district falls under Seismic Zone V. Figure 3.11 shows the district position on the earthquake map of West Bengal.

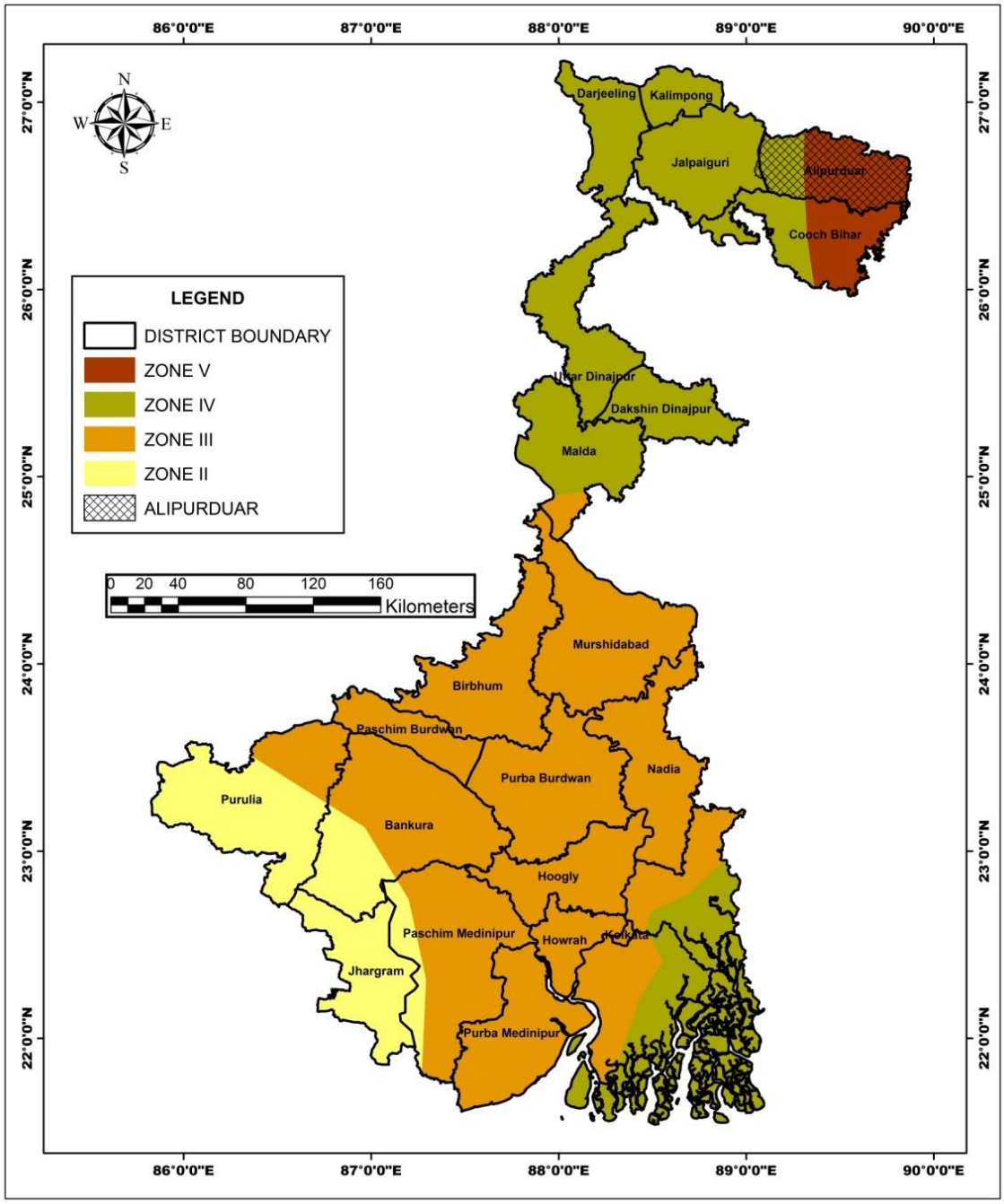


Figure No. 3.11: Earthquake zonation map of West Bengal highliting the Alipurduar district position

(Source: https://pib.gov.in/PressReleasePage.aspx?PRID=1740656)

On 25th April and 12th May 2015, Nepal and its surrounding area were hit by earthquakes which are considered to be the most devastating in the living memory of

the inhabitants of these affected areas. The 7.9 magnitude quake was the strongest to hit Nepal for 81 years. It was the most horrible natural disaster to hit Nepal since the 1934 Nepal–Bihar border earthquake. Earthquakes are often followed by landslides and rock avalanches and glacier avalanches in Himalayan hilly areas. Landslides also blocked the river channels, sewage and other communication system in Darjeeling district. Mud wall, buildings and boundary walls in different locations of Siliguri, Alipurduarand Jalpaiguri had collapsed because of the tremors (***Source: Dey, 2015***).

k) Flora

The district Alipurduar is blessed with rich reserves of forest resources. The presence of vast hilly tracts covered with dense forests with sparkling streams flowing through them has attracted the attention of all over the world. The forests of Alipurduar district cover 106715 hectares of land, which is 38.3% of the total geographical areas of the district. It is the home of a fascinating variety of flora and fauna. There are 352 species of trees, 108 species of climbers, 6 species of canes, 133 species of shrubs, 144 species of bamboos and 25 varieties of rare plants.

Timber and fuel are the major forest produce. The timber produce in this region is of very good quality and is used for building, furniture, doors, windows, and other wooden fixtures. Wood based industries like plywood manufacturing and wooden furniture making are in plenty in this region. Cane and bamboo furniture and fixtures also manufactured both in the rural and urban areas.

Out of total area of 278800 hectare of the district, the forest covers 106715 hectares of which 97505 hectares are reserved area.*(**Source: District Industrial Profile, 2018-19, Alipurduar, MSME-Development Institute Kolkata, Ministry of MSME, Govt. of India**).*

Names of some of the well-heard trees and shrubs are Angur (Grapevine), Bahera (Beleric Myrobalan), Badam (Nut), But (Banyan), Champ, Gab (Mangosteen), Gamhari (White Teak), Ghorabadam, Pitali (L. Mudilflora), Jhau (She-oak), Khair (Cutch), Madar (the coral tree), Mahua (Mohwa, Butter), Nim (Margosa), Pakur (L. Ficusinfectoria), Palas (L.Butea Frondosa), Pipal (Long Pepper), Panisaj, Sal (L. Shorearobusta), Simul (Silk Cotton), Siris (Silk Flower), Sajna (Horse-Reddish, Kitchen plant), Sissu (Sisso), Tal (Palmyra-palm), Tentool (Tamarind), Toon (Toon) etc. Amongst these the Sal, Sissu and Khair are used in the manufacture of agricultural implements, house buildings and wooden furniture. Vernacular names of some of the well-heard fruit trees are Aam (Mango), Anaras (Pine Apple), Alu (Potato), Ata (Custard Apple), Bel (Wood Apple), Chalta (an idible acid fruit tree), Dalim (Pomegranate), Golapjam (Rose Apple), Jambura (Shaddock), Jalpai (Olive), Kadam (L. Authocephalus Kadambo), Kamranga (Carambola), Kharmuj (Melon), Kela (Banana), Kalojam (Black Plum), Kathal (Jack Fruit), Lichu

(Lichchi), Tut (Mulberry) etc. and vernacular names of some of the well-heard jungle grasses of the Duars are Bamboo, Hogla (Bulrush), Khus Khus, Nal khagra (a type of river-Reed) etc.*(**Source: Census, 2011**)*.

Table No. 3.6: Details of Forest area

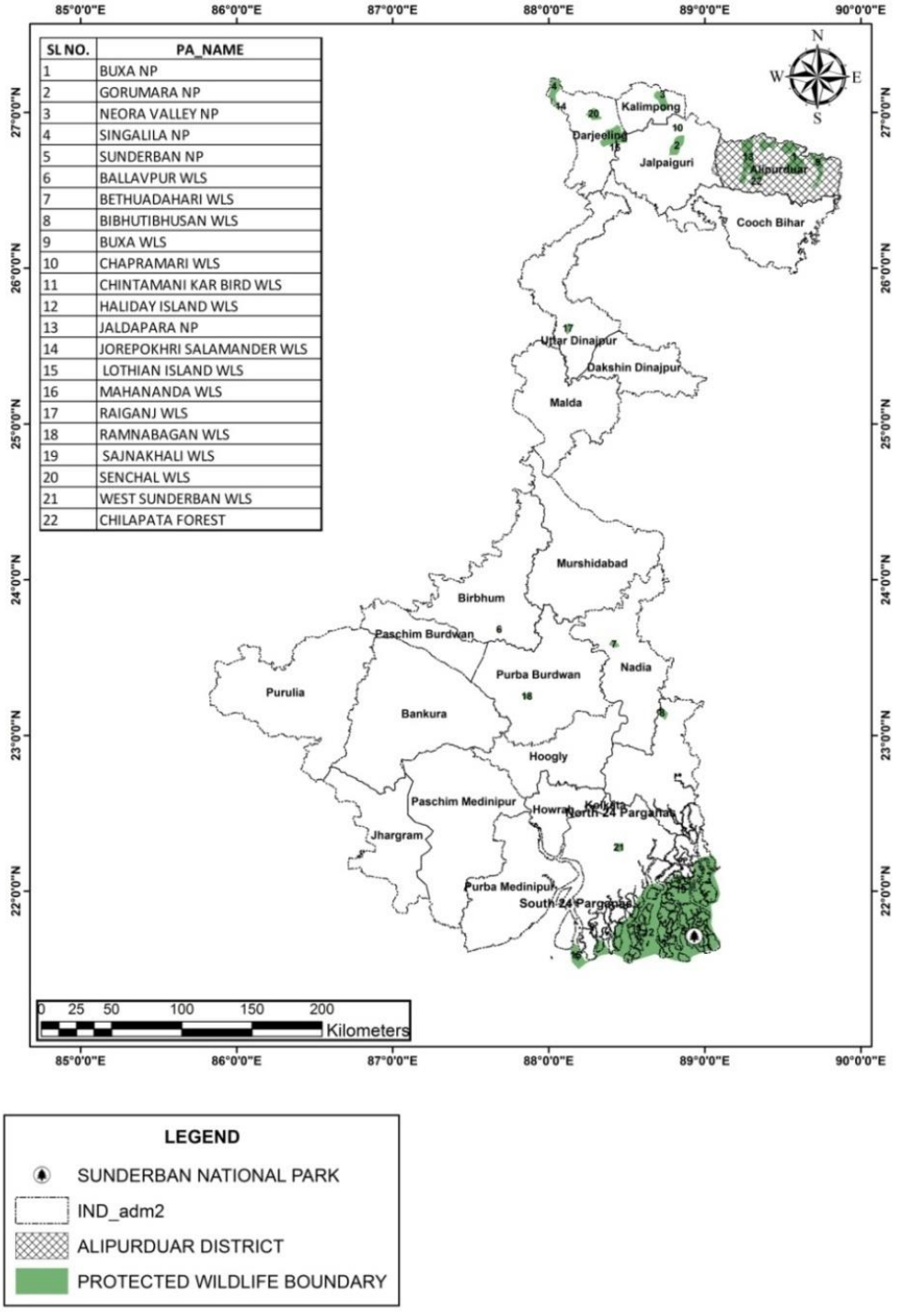
(Source: District Industrial Profile, 2018-19, Alipurduar, MSME-Development Institute Kolkata, Ministry of MSME, Govt. of India)

Dist.	Nos. of Range	Nos. of Beats	Forest Area (in Ha.)	Reserve (in Ha.)	Protected (in Ha.)
Alipurduar	22	77	106715	97505	9210

l) Fauna

The forests of this district is the abode of a spectacular range of faunal variety with mammal 69 species, reptiles 41 species, birds 249 species, amphibians 45 species, fishes 33 species and entomic fauna 353 species. Social forestry is becoming popular now-a–days and trees like Eucalyptus, Simul, Krishnachura etc. are being widely cultivated. The forested hilly ranges have given birth to two major Wild Life Reserves viz. Jaldapara Wild Life sanctuary and Buxa Tiger Reserve. *(**Source: District Industrial Profile, 2018-19, Alipurduar, MSME-Development Institute Kolkata, Ministry of MSME, Govt. of India**)*.

Spread over an area of 10,474.40 hectares, the **Jaldapara Wild Life Sanctuary** is the oldest sanctuary which is a part of the Buxa Forest Division. The sanctuary is famous for its varied collection of wild life. At the initial stage this sanctuary was designated to preserve the famous Indian one-horned Rhinoceros. Later, apart from the one-horned Rhinoceros, the sanctuary was also made the home of elephant, tiger, leopard, sambar, hog deer, barking deer, spotted deer, swamp deer, pig, sloth bear etc. Many mammals belonging to the cat species origin like civet cat, jungle cat, leopard cat, fishing cat etc. are also found here. Birds like peacock, jungle fowl, wood cock, owl, kingfisher, hornbill, pigeon, dove, parrot, blue bird, twitter and many others are also found in huge numbers. Various kinds of snakes and lizards inhabit the sanctuary. Commonly found snakes are the huge fangless python, the cobra, the king cobra, kraits, vipers, cat snakes, Indian rat snakes etc. The park so far has recorded fifty species of mammals, 193 species of birds, 22 species of reptiles, 7 species of turtles, 27 species of fish, and other macro and micro faunas. The Chapramari Wild Life Sanctuary covers an area of 2,373 acres. *(**Source: Census, 2011**)*.



SL NO.	PA_NAME
1	BUXA NP
2	GORUMARA NP
3	NEORA VALLEY NP
4	SINGALILA NP
5	SUNDERBAN NP
6	BALLAVPUR WLS
7	BETHUADAHARI WLS
8	BIBHUTIBHUSAN WLS
9	BUXA WLS
10	CHAPRAMARI WLS
11	CHINTAMANI KAR BIRD WLS
12	HALIDAY ISLAND WLS
13	JALDAPARA NP
14	JOREPOKHRI SALAMANDER WLS
15	LOTHIAN ISLAND WLS
16	MAHANANDA WLS
17	RAIGANJ WLS
18	RAMNABAGAN WLS
19	SAJNAKHALI WLS
20	SENCHAL WLS
21	WEST SUNDERBAN WLS
22	CHILAPATA FOREST

Figure No. 3.12: District location with respect to Wild Life Sanctuary of West Bengal

(Source: http://wiienvis.nic.in/)

Buxa Tiger Reserve is another wildlife sanctuary in Alipurduar district, West Bengal, India, covering an area of 760 km2 (290 sq mi). In altitude, it ranges from 60 m (200 ft) in the Gangetic Plains to 1,750 m (5,740 ft) bordering the Himalayas in the north. At least 284 bird species inhabit the reserve. Mammals present include Asian elephant, gaur, Sambar deer, clouded leopard, Indian leopard. (***Source:*** ***https://en.wikipedia.org/wiki/Buxa_Tiger_Reserve***)

4. Physiography of the district

a) General Landforms

The western part of Alipurduar-Jalpaiguri region is slightly undulating and covered by paddy fields and bushy jungles, while the eastern part of the district presents a flat strip of land. There are numerous rivers in the district and except the Torsa, which originates from Tibet, all others originate from Sikkim, Bhutan and Darjeeling hills and drain north-southern part of the district. The whole region is full of tea gardens and scatter forests. The entire topography is crisscrossed with streams, rivers and hills. The district topography wears a mixed look consisting both of hilly areas and undulating plains coupled with vast flat plains. Three district physiographic units can be identified in the district (a) the northern hilly terrain which is a part of the sub-Himalayan Ranges, (b) the central tract, locally called Bhaber and (c) the gently sloping alluvial plain in the south locally called Terai. *(Source: Census, 2011).*

A few hills occur in the Terai or Dooars region at the foot of the Himalayas. Some remnants of the Siwaliks can be seen in the Alipurduar region, where they are known as the Buxa-Jayanti Hills.

The "Terai" ("moist land") is a belt of marshy grasslands, savannas, and forests at the base of the Himalaya range stretching southwards to about 38 km. Above the Terai belt lies the Bhabar, a forested belt of rock, gravel, and soil eroded from the Himalayas. The Terai zone is composed of alternate layers of clay and sand, with a high-water table that creates many springs and wetlands. The Terai zone is inundated yearly by the monsoon-swollen rivers of the Himalaya. The Terai-Duar savanna and grasslands is an eco-region that stretches across the middle of the Terai belt. The Terai-Duar savanna and wetlands are a mosaic of tall grasslands, savannas and evergreen and deciduous forests. The Terai and Dooars region politically constitute the plains of Darjeeling District, whole of Jalpaiguri and Alipurduar district and upper region of Cooch Behar District in West Bengal. The slope of the land is gentle, from north to south. The general height of the land is 80 to 100 m. The entire region is made up of sand, gravel and pebbles laid down by the Himalayan rivers like the Teesta, Torsa, Raidak, Jaldhaka, Sankosh and several other small rivulets. The Teesta has divided the area into two parts- the western part is known as the Terai whereas the eastern part is known as the Dooars or Duars. The Dooarsregion can be further subdivided into the Siliguri or Western Dooars, the middle or Jalpaiguri Dooars and the eastern or Alipur Dooars.

North Bengal plains start from the south of Terai region and continue up to the left bank of the Ganges. The southern parts of the district Jalpaiguri, North Dinajpur baring some extreme northern regions, South Dinajpur, Malda and Cooch Behar districts constitute this geographical region. The narrow land mass in the

North Dinajpur district is known as Mahananda corridor. This corridor runs north to south joining Malda with the plains of Jalpaiguri, Alipurduar and Cooch Behar. The entire part of North and South Dinajpur is silt laden plain.

The plain in the south of Jalpaiguri, Alipurduar and Cooch Behar district is also made of new alluvium deposited by numerous rivers like the Teesta, Torsa, Raidak, Jaldhaka, Sankosh, Balason, Punarbhaba, Atrai and other small rivulets.

b) Soil and rock pattern

The soil types are mostly clayey-loam, loam, sandy loam, acidic pH ranges from 4.5 to 6.6 and deficient in micronutrients. The soil in this region varies from alluvial soil to sandy and hard black clayey. The upper region in the north of Dooars, the soil is mainly black and clayey. This soil is suitable for growing tea, which is a major cash crop of this district. In the lower plain, the soil consists of a mixture of both clay and sand. The alluvial soil is fertile enough for crops like paddy, wheat, jute, potato, pulses, oilseeds, sugarcane etc. to be grown.

Rock types of the upper part of this region are Limestone with shale, sandstone with shale/coal beds, sandstone with shale, older Alluvium (Ailt/Sand/Gravel/Lithomargic Clay) and schist and Younger Alluvium (Clay/Silt/Sand/Calcareous concretion), Sandstone with shale and older Alluvium (Silt/Sand/Gravel/Lithomargic Clay) in the middle and lower part.

Rock type of the district may be divided into three tracts, the hard rock area in the north, the Bhabar belt in the middle, the Terai belt and the alluvial plains in the south. The Bhabar belt comprises rock fragments, big boulders and fine grained clastics derived from the hard- rock area is characterized by gentle slope, boulder surface and forest of tall trees. These are the coarse alluvial zone below the Hills (outermost foothills of the Himalayas) where streams disappear into permeable sediments. The Terai belt is the zone of rejected recharge and, as such has developed swampy condition and is composed mostly of coarse granular materials alternating with finer clastics. The alluvium consists of succession of layers of sand, silt and clay with occasional gravel beds and lenses of peaty organic matter (Source: Mili, 2012).

Figure 4.1 is showing soil pattern of the district Alipurduar. Soil type of the district is explained below (Table 4.1).

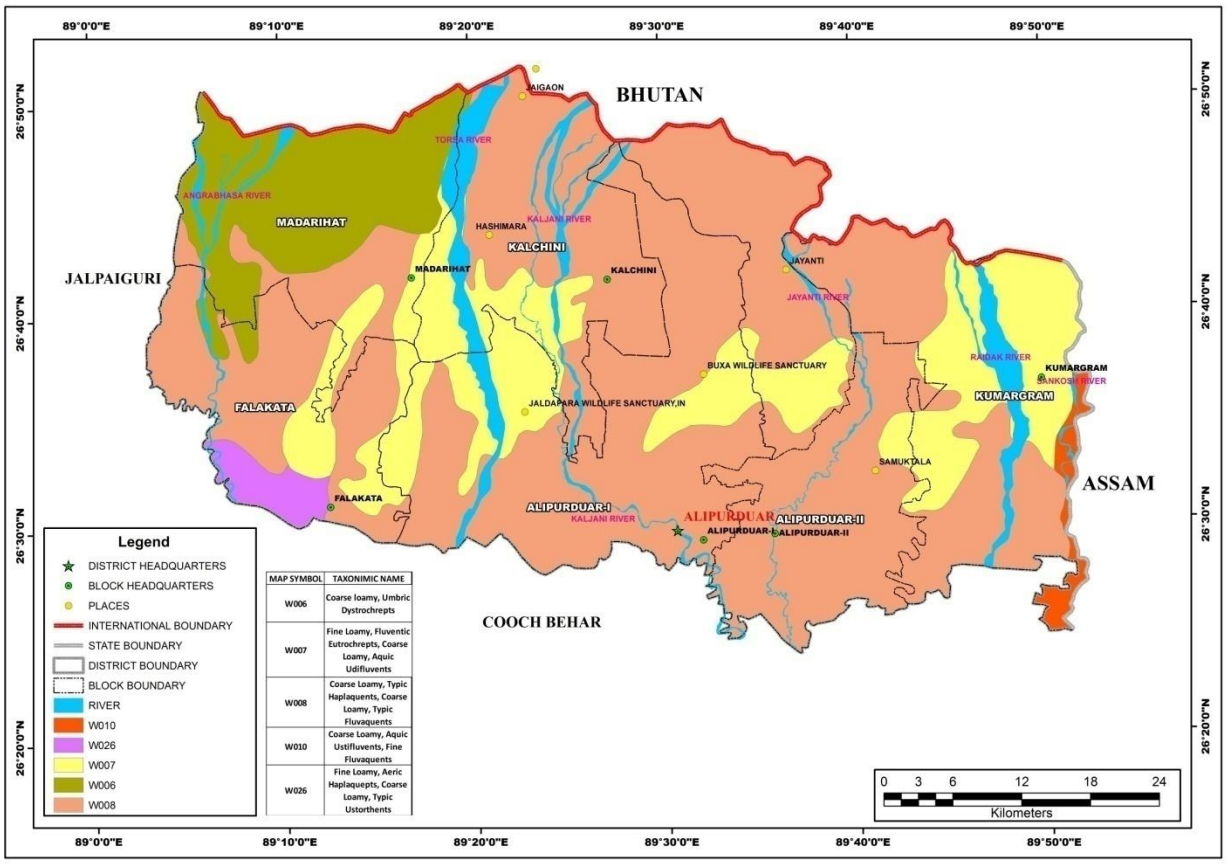


Figure No. 4.1: Soil Map of Alipurduar District

(Source: https://esdac.jrc.ec.europa.eu/content/west-bengal-soils-sheet-2)

Table No. 4.1: Descrption of District soil type as depicted in district soil map

MAP SYMBOL	DESCRIPTION
Soil of Indo-Gangetic Alluvial Plain	
W006	Very deep, imperfectly drained, coarse loamy soils occurring on very gently sloping upper piedmont plains with loamy surface and moderate erosion associated with very deep, imperfectly drained, fine loamy soils.
W007	Very deep, imperfectly drained, fine loamy soils occurring on very gently sloping lower piedmont plain with loamy surface and moderate erosion associated with very deep, imperfectly drained, coarse loamy soils.
W008	Very deep, poor drained, coarse loamy soils occurring on the level to nearly level lower piedmont plain with loamy surface associated with very deep poorly drained, coarse loamy soils.
Active Alluvial plain	

MAP SYMBOL	DESCRIPTION
W0010	Very deep, moderately well drained, coarse loamy soils, occurring on level to nearly level active alluvial plain with loamy surface and moderate flooding associated with very deep poorly drained, fine loamy soils
Recent Alluvial Plain	
W0026	Very deep, poorly drained, fine loamy soils on level to nearly level recent alluvial plain with loamy surface associated with very deep, moderately well drained, coarse loamy soils

c) Different geomorphologic units

The Alipurduar district of West Bengal represents a zone between the Himalayan Mountain and Brahmaputra-Gangetic Plain. It displays the typical characteristics of the piedmont alluvial fans of the Himalayan foothills. This part of the foothill which is located to east of Teesta river is known as the doors.

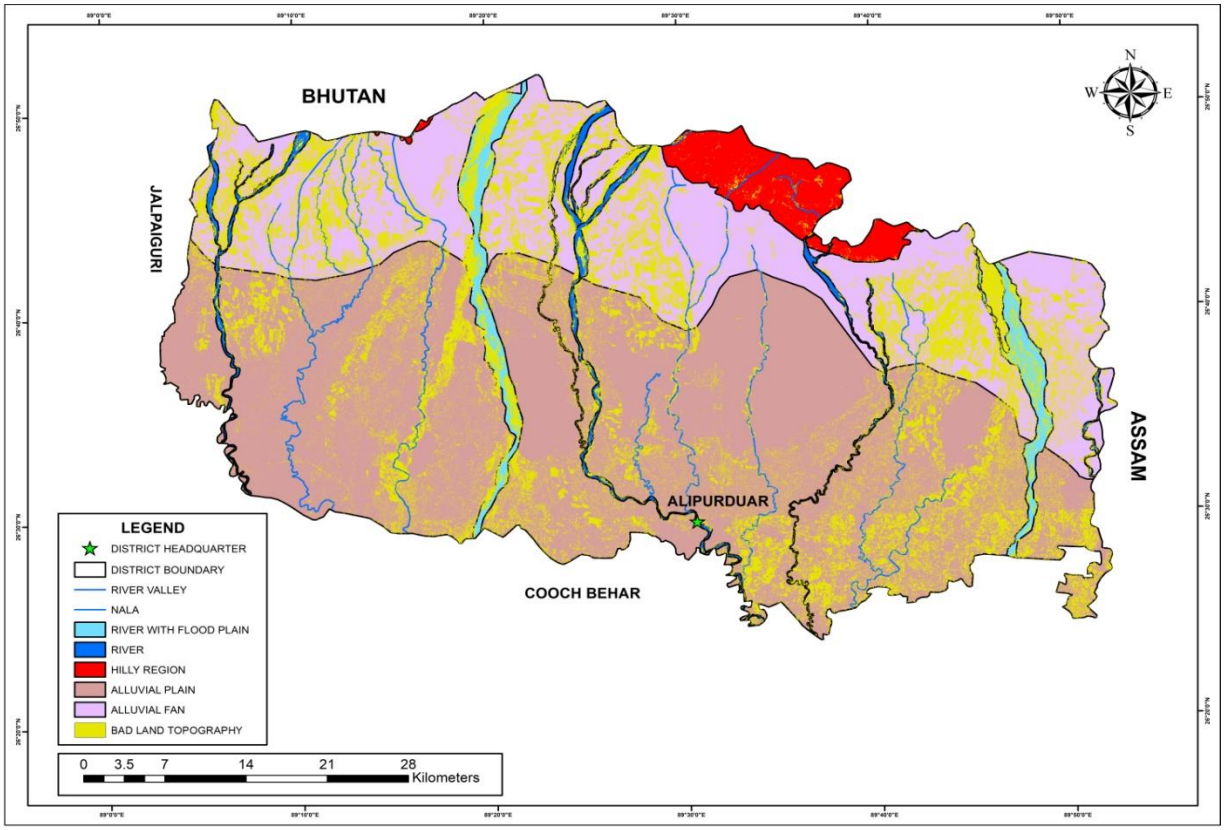


Figure No. 4.2: Geomorphological Map of Alipurduar District
(Source: Resourcesat-1&2 – Liss-3, Bhuvan India)

Geomorphologically the area can be divided into five classes. A small part of northern region shows hilly area. Apart from this, northern part of the district shows alluvial fan and the whole southern part shows a broad alluvial plain from west to east. Alluvial Fan is a type of terrain where river off load sediments from narrow canyon to plain land. Another geomorphological unit of this area is River flood plain. Badland topography is characteristic of this River flood plain. Badland topography is a type of topography with deep vertical ravines due to vertical erosion caused by river.

5. Land use pattern of the district:

The land share of district Alipurduar is modest in comparison to other districts in the state. Large proportion of land is covered by agricultural land. Table 5.1 gives land utilization static of Alipurduar district. Figure 5.1 is pie diagram representing broad land use pattern of the district and Figure 5.2 is Land Use Land Cover map of the district.

Table No. 5.1: Classification of Land Utilisation Statistics in the district

Type	Area InSqkm
Settlement	209.71
Agricultural Fallow Land	525.76
Vegetation Covered Area	685.72
Bad Land Topography	659.17
Agricultural Land	816.27
River	239.37
Total	**3136.00**

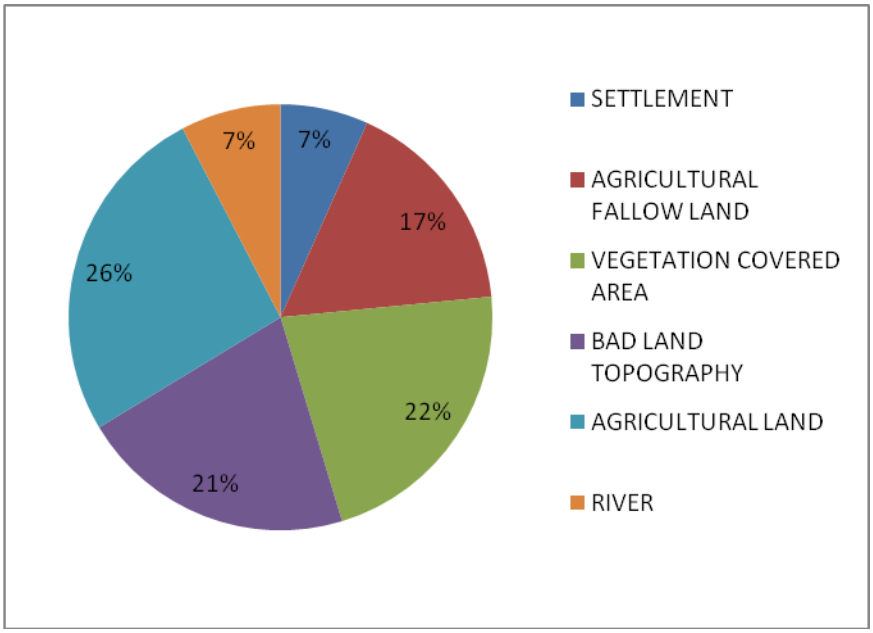


Figure No. 5.1: Land use pattern of Alipurduar District

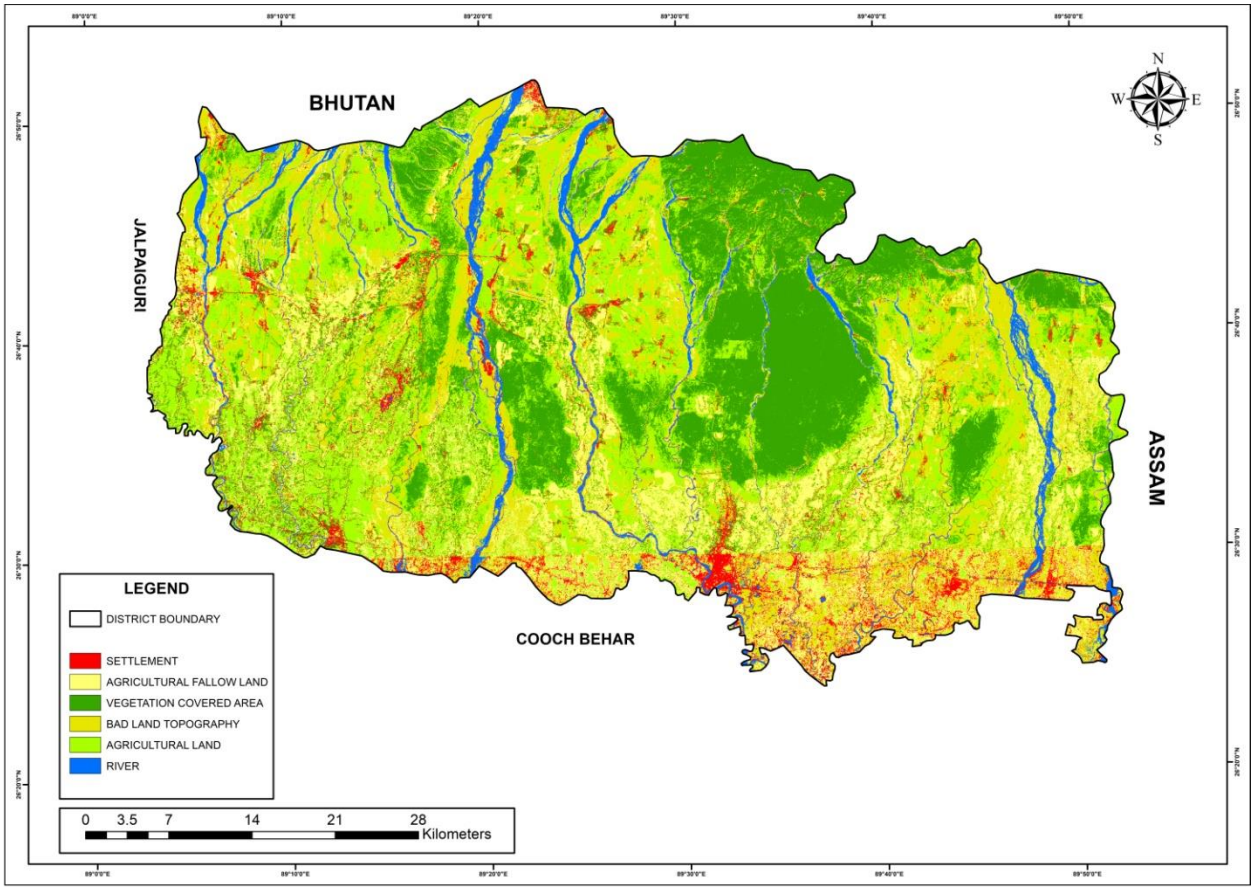


Figure No. 5.2: Land Use Land Cover map of Alipurduar District
(Source: Resourcesat-1&2 – Liss-3, Bhuvan India)

It is observed from the above figure that maximum land of Alipurduar district is covered with vegetation. Percentages of agricultural land and agricultural fallow land are also high. Bad land topography is an important landuse type of Alipurduar District. Southern part of the district is densely populated compared to the other part of the district. Concentration of settlement is higher in this part. The district is also marked by the occurrence of several water bodies.

a) Forest -detail of the area

The district is blessed with rich reserves of forest resources. The presence of vast hilly tracts covered with dense forests with sparkling streams flowing through them attracts tourists from all over the world. The forests, covering about 1,79,000 hectares of land which is 27.8 per cent of the total geographical areas, are home to a fascinating variety of flora and fauna. The vegetation is mostly deciduous semi evergreen with sal as

the dominant species. The timber produced in these forests is very valuable and is used for building furniture, doors, windows and other wooden equipment. Social forestry is also becoming popular now-a-days with trees like Eucalyptus, Simul, Krishnachura etc. being widely cultivated or planted. The forested hilly ranges have also augmented growth of several major Wild Life Reserves – namely Jaldapara, Buxa Tiger Reserve, Chilapata, Chapramari and Hollong. The rich bio-diversity in the sanctuaries of Jaldapara and Chapramari is a striking treatfor the eyes. Trekking routes along the Sinchula Range provide magnificent scenic viewsof nature in its pristine form. Chotashinchula peak (5,695 feet) is the highest point of the district. These ecologically fragile zones are required to be preserved and protected from environmental degradation. Minor forest produces like bamboo, cane, honey, wax etc. are also found in the forest areas. Bamboo and cane furniture is manufactured both in the rural and urban areas. Timber and fuel are the major forest produce. They serve as popular tourist resorts. If we go through the following table, we will get a clear picture about the forest area, forest produce and revenue & expenditure of the district for the last five years is furnished below (Source: Census, 2011).

Table No. 5.2: Details of forest area, forest produce and revenue & expenditure of the district for the last five years

Item	Unit	2009-10	2010-11	2011-12	2012-13	2013-14
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. Area by Class of Forest	-	-	-	-	-	-
Reserved forest	hectare	144300	144300	144300	144300	144300
Protected forest	"	16600	16600	16600	16600	16600
Unclassed state forest	"	6411	6411	6411	6411	6411
Khas forest	"	1421	1421	1421	1421	1421
Vested waste land	"	-	-	-	-	-
Forest owned by corporate bodies	"	-	-	-	-	-
Forest owned by private individuals	"	10268	10268	10268	10268	10268
Forest owned by civil authorities	"	-	-	-	-	-
Total		**179000**	**179000**	**179000**	**179000**	**179000**
2. Forest Produce	-		-	-	-	-



Item	Unit	2009-10	2010-11	2011-12	2012-13	2013-14
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Timber	' 000 cu. metre	20.86	11.77	12.56	25.93	21.68
Fuel	Stack	7967	6014	6232	6381	6645
Pole	Number	333	474	436	639	624
3. Revenue & Expenditure	-	-	-	-	-	-
Revenue	Rs. in ' 000	243450	247745	253798	279897	280159
Expenditure	"	392726	434170	455480	452751	450138

Source: Census, 2011.

b) Agriculture& Irrigation

The majority of the people of the district are engaged in agriculture. The economy of the district is mainly dependent on agriculture and plantation activity. Rice is the principal crop of the district. Other important crops are paddy, jute, tobacco, mustard seeds, sugarcane and wheat. Three varieties of rice viz. *aus*, *aman* and *boro* are grown. Gradually more and more areas are coming under wheat production inthe district. Pulses like *musur*, *mug*, gram, *maskalai*, *khesari* and *arhar*are also grown. Alipurduar is famous for its tea and timber. Tea stands as the most valuable crop of the district. Hereunder year wise (from 2006-07 to 2010-11) area under principal crops in the district is shown below.

Table No. 5.3: Area under principal crops in the district

(Thousand hectares)

Crops		2009-10	2010-11	2011-12	2012-13	2013-14
(1)		(2)	(3)	(4)	(5)	(6)
Foodgrains :						
1.	**Rice**	**227.5**	**224.1**	**224.6**	**228.1**	**229.6**
	Aus	34.6	30.8	29.9	29.1	29.4
	Aman	174.7	176.0	177.8	180.0	180.1
	Boro	18.2	17.3	16.9	19.0	20.1
2.	Wheat	16.0	18.0	17.1	17.4	17.2
3.	Barley	(a)	(a)	(a)	(a)	(a)
4.	Maize	11.8	12.8	13.5	12.7	12.7
5.	Other Cereals	0.3	0.3	0.3	0.3	0.4
	Total Cereals	**255.6**	**255.2**	**255.5**	**258.5**	**259.9**
6.	Gram	0.1	(a)	0.1	0.1	(a)
7.	Tur	(a)	(a)	(a)	0.1	-
8.	Other Pulses	4.4	4.3	4.2	4.6	4.7



(Thousand hectares)

Crops		2009-10	2010-11	2011-12	2012-13	2013-14
(1)		(2)	(3)	(4)	(5)	(6)
	Total Pulses	**4.5**	**4.3**	**4.3**	**4.8**	**4.7**
	Total Food grains	**260.1**	**259.5**	**259.8**	**263.3**	**264.6**
Oil Seeds :						
1.	Rapeseed & Mustard	10.7	10.3	10.0	9.8	9.2
2.	Linseed	0.8	1.0	0.8	0.7	0.7
3.	Other Oil seeds	4.2	8.4	7.4	7.1	6.8
	Total Oil seeds	**15.7**	**19.7**	**18.2**	**17.6**	**16.7**
Fibres :						
1.	Jute	39.3	40.0	35.7	35.1	35.2
2.	Mesta	0.2	0.2	0.3	0.3	0.2
3.	Other Fibres	-	-	-	-	-
	Total Fibres	**39.5**	**40.2**	**36.0**	**35.4**	**35.4**
Miscellaneous crops :						
1.	Sugarcane	0.1	0.2	0.2	0.1	0.2
2.	Potato	32.3	31.7	31.9	33.6	40.1
3.	Tobacco	0.7	0.6	0.5	0.7	0.6
4.	Tea	77.3	77.3	77.3 (P)	94.4(E)	94.4(E)
5.	Chillies (dry)	5.5	5.5	5.5	5.5	5.5
6.	Ginger	1.5	1.5	1.5	1.5	1.6
Total Miscellaneous crops		**117.4**	**116.8**	**116.9**	**135.8**	**142.4**

Paddy jute and tobacco are the main crops produced in the district. Tobacco is grown abundantly mainly in the land lying near the river. The largest cultivated area in this region is the tract between Dalgaon and Falakata where fields of rice and mustard can be found lying here and there. Wheat, gram, jute, rapeseed and potato are also cultivated in the district though the figure is well below the state average production. (Source: Census, 2011).

Table No. 5.4: Details of crops in different period

	Kharif			Rabi				
Major field crops cultivated	**Irrigated**	**Rain fed**	**Total**	**Irrigated**	**Rain fed**	**Total**	**summer**	**Grand Total**
Paddy	41.30	7.50	48.80	36.20		36.20	17.40	102.40

	Kharif			Rabi				
Major field crops cultivated	**Irrigated**	**Rain fed**	**Total**	**Irrigated**	**Rain fed**	**Total**	**summer**	**Grand Total**
Jute	4.10	33.30	37.50					37.50
Wheat				19.90		19.90		19.90
maize							8.20	8.20
rape & Mustard				10.40		10.40		10.40
Potato					39.60		39.60	39.60

Table No. 5.5: Details of area used for crops

	Kharif		Rabi		Summer		Total	
Major field crops cultivated	**Production ('000 t)**	**Productivity (kg/ha)**	**Production ('000 t)**	**Productivity (kg/ha)**	**Production ('000 t)**	**Productivity (kg/ha)**	**Production ('000 t)**	**Productivity (kg/ha)**
Paddy	94.80	3320.00	335.90	3391.00	49.00	2815.00	470.80	9526.00
Potato				27864.00			348.60	27864.00
Wheat			31.80	255.00			31.80	2550.00
rape & Mustard			4.80	768.00			4.80	768.00
Jute			505.10	2114.00			505.10	2114.00
maize					18.90	2315.00	22.50	2315.00

During the monsoon season, the sky remains heavily clouded or overcast as usual. During March to May winds are stronger when thunderstorms occur though in general the winds are light. The thunderstorms occur all the year round except in winter. The average annual rainfall is 3,440 mm. It may be mentioned here again that the average annual rainfall of the district is almost double the average annual rainfall of Kolkata and its surroundings. But heavy rainfall occurs only from June to early October. During these months the rivers are full and heavy volumes of water overflows causing huge damage and devastation. The rivers in the district have the tendency to change their course which leads to destruction of vast area under cultivation. Overflowing river deposits huge quantities of sands on the green fields also.

c) Horticulture

A large variety of fruits such as mango, Banana, Oranges, Papaya, jackfruit etc. is grown under moderate rainfall. The Oranges are of excellent quality. The production of

Mandarin Oranges and other variety of Citrus fruits are very famous. (Source: Census, 2011).

Table No. 5.6: Details of fruits

Name of Fruits	Area (Thousand hectares)					Production (Thousand tonnes)				
	2009-10	2010-11	2011-12	2012-13	2013-14	2009-10	2010-11	2011-12	2012-13	2013-14
Mango	1.54	1.54	1.55	1.55	1.55	4.99	5.39	5.46	6.47	3.80
Banana	2.33	2.43	2.53	2.54	2.55	52.09	54.09	56.00	56.85	57.00
Pineapple	1.65	1.71	1.75	1.79	1.81	55.66	57.66	58.38	59.00	60.68
Papaya	0.59	0.59	0.60	0.59	0.60	30.81	31.03	31.29	30.00	31.10
Guava	0.54	0.54	0.54	0.55	0.57	8.27	8.27	8.21	8.34	8.62
Jackfruit	1.56	1.56	1.56	1.57	1.57	38.78	38.98	39.00	40.00	39.86
Litchi	0.28	0.28	0.28	0.28	0.28	2.96	2.96	2.95	2.94	2.98
Mandarin Orange	0.06	0.07	0.07	0.07	0.07	0.48	0.48	0.49	0.49	0.50
Other Citrus	0.62	0.62	0.62	0.63	0.63	5.64	5.64	5.63	5.71	5.74
Sapota	0.19	0.19	0.19	0.19	0.19	2.53	2.53	2.53	2.53	2.53
Others	0.15	0.15	0.13	0.15	0.15	1.76	1.78	1.78	1.81	1.81

Table No. 5.7: Details of flowers

Name of Flowers	Area						Production					
	Unit	2009-10	2010-11	2011-12	2012-13	2013-14	Unit	2009-10	2010-11	2011-12	2012-13	2013-14
Rose	'000 hectares	..	..	..	-	-	Crore Cut Flower	..	..	..	-	-
Chrysanthemum	"	0.002	0.002	0.002	0.002	0.002	"	0.031	0.031	0.031	0.032	0.033
Gladiolus	"	0.062	0.112	0.115	0.121	0.128	"	0.917	1.660	1.710	1.802	1.899
Tuberose	"	..	..	..	-	-	"	..	..	..	-	-
Marigold	"	0.020	0.020	0.030	0.035	0.036	'000 MT	0.149	0.149	0.249	0.285	0.291
Jasmine	"	0.045	0.045	0.045	0.045	0.044	"	0.042	0.042	0.042	0.043	0.042
Seasonal Flower	"	0.076	0.076	0.078	0.079	0.079	"	0.082	0.083	0.083	0.084	0.086
Misc. Flower	"	0.010	0.010	0.010	0.011	0.012	"	0.015	0.015	0.015	0.015	0.016

d) Mining

The district is not holding any major mineral deposits. However, collection of sand and gravels from the river-bed of the hilly torrents are the major source of revenue generation. These materials are primarily utilized for construction purpose.

6. Geology:

Inconformity with the general geological setting in the Himalayan tract of North Bengal, the foothill belt comprises the Siwalikes in the south, separated from the impersistent Gondwanas rocks attain maximum thickness here, and is best developed in the whole North Bengal. It follows the Gondwanas in the north, forming the southern flank of the Dalings, which becomes the prominent rock unit in Bhutan. Among the Quaternary Geological formations of Eastern India, this study area has involved polycyclic landscape and peculiar drainage system, being reconstructed from time to time.

The stratigraphic succession is furnished in Table No. 6.1.

Table No. 6.1: Geological succession of Alipurduar

Group Name	Lithology Type
Older Alluvium (Pleistocene to Recent)	Loose sandy soil with boulders and pebbles of older rocks.
Siwalik Group (Mio-Pliocene)	Coarse grained, micaceous, sub-greywacke with pallets of clay and lenses of lignite. Stratigraphically upper members are usually pebbly and relatively more felspathic.
----------Main Boundary Fault----------	
Gondwana Group	Lamprophyres and quartz veins. Tectonically mixed, boudinaged quartzite sandstone with crushed carbonaceous material. Original bedding form usually obliterated.
----------Thrust contact----------	
Epidiorites	Mostly occurring as sills.
Buxa Series (Precambrian)	Dolomite and ortho-quartzite with variegated phyllites.
----------Thrust contact----------	
Daling Series (Archaean)	Thick pure quartzite beds interblended with thick grey phyllite, bluish grey phyllite and schist.

- **Description of the different litho-groups:**

Daling Series:

These are represented by thick succession of quartzite interbedded with bluish gray, gray and green phyllites and chlorite Sericite schist. The rocks of Daling affinity occur near the Bhutan Border, north of Buxa.

Buxa Series:

The rocks of the series are characterized by the presence of calcareous sediments in addition to argillaceous and thus differ from the Dalings which are purely argillaceous. The occurrence of hematite schists and banded hematite jasper in the rocks of this series is also very distinctive. The main rock types of this series are the phyllite, quartzite and the dolomite.

The phyllites are brown to greenish brown in colour and trace of faint colour banding indicates the trace of the bedding. A few bands of phyllites are noticed in the quartzite and the dolomite which is profusely pyrite with deep chemical weathering causing sulphurous effervescence.

The quartzite forms an important member of Buxa Series. The quartzite consists of well bedded, cross stratified and schistose units. The quartzite is texturally nature and belongs to the ortho-quartzite group.

The dolomite is the most important member of the Buxa series. This normally overlies the quartzite but at places where the quartzite is absent, it directly overlies the Gondwanas (structurally). It is in general dark to light grey in colour, massive and highly jointed.

Gondwanas:

Lithologically, the Gondwanas in this area consist of carbonaceous material (rendered flaky at places) and quartzite sandstone. The quartzitic sandstone mostly occurs as spheroidal with carbonaceous coating. The maximum size of the boundins is 10 m across. The Gondwanas assemblage which occurs as a distinct marker horizon is sandwiched between the Siwaliks and the Buxas, and has a width from 2 to 90 m.

Siwaliks:

The Siwaliks consist of a lower horizon of fine grained sandstone with siltstones and an upper pebbly member. The sandstone is composed of sub-angular quartz, relatively un-weathered grains of feldspar and mica; lenses of lignite the fossil wood are common. The Siwaliks occur fringing the foothills and their northern extent is limited to the Main Boundary Fault. At the contact with the Gondwanas they show evidence of shearing, in duration and gentle warping.

Older Alluvium:

This forms a fringe all along bordering the hills, though occasionally their presence is noticed within the hills also. Older Alluvium comprises gravel and boulders

in a sandy and clayey matrix. The formations is semi consolidated, stratified. The area further south of the older alluvium is covered by alluvium of recent age, exposed outside the area under review. (Source: Gupta et al; Progress Report for the Field Season 1966-67, GSI)

- **Structure:**

There a number of major thrusts in the Jainti area, causing reversal in the sequence of formations here. The younger rocks are progressively overlain (structurally) by older rocks. Thus from south to north, the successive rock formations belong to the Siwaliks, Gondwanas, Buxas and Dalings. Towards the south, the Main boundary fault brings the Siwaliks in contact with the Gondwanas. The Buxas ara brought close to the Gondwanas by the Buxa thrust. In the northern part of the area, a thrust separates the Dalings from the underlying Buxas. The beds in general show dips varying from 35° to 80° in the northeasterly or east-northeasterly direction.

In the area investigated, no major structural features were observed. Beds show dip varying from 25° to 45° in the northerly direction.

7. Mineral wealth

7.1 Overview of mineral resources

The geological formation of Alipurduar district indicates the presence of quite a number of minor minerals such as Talc and Steatite and minor minerals such as Quartz, Dolomite, Gravel, Soil, Brick Earth and Sand.

7.2 Details of Resources

A)Sand and other riverbed minerals:

i) Drainage System

The area forms a part of the Sub-Himalayan Zone. This foot hill zone rises from the alluvial plain on the south, gradually gains elevation and ruggedness northwards to a steep range with altitudes 1700m and above at the Bhutan border. The maximum relief in the area is about 1550 m. The drainage is controlled by the general slope of the terrain, as a number of southerly flowing nalas with steep gradients drain the area. The rivers formed by these nalas are perennial in the upper reaches, but mostly influent down in the plains. Description of some major rivers of the district is described below.

River Torsa: The Torsa River originates in the Chumbi valley in southern Tibet at an elevation of 7,060 m. It flows for about 144 km. (90 miles) in West Bengal. On leaving West Bengal it joins the Brahmaputra in the Rangpur district of Bangladesh. The river bifurcates into two courses, namely, Chaur Torsa (West) and Sili Torsa (East) just 15 below the Hasimara road bridge and these two converge near Patla Khawa forest in the Coochbehar district after flowing separately for a distance of about 40 km. (25 miles).

River Kaljani: Two rivers rising from Bhutan viz. Alaikuri and Dima take name of Kaljani after they unite near Alipurduar. It has a course of only a few kilometers in the district marking the boundary with Coochbehar. Nanai, Cheko and Gadadhar are some well named tributaries of the river.

River Raidak: The Wang Chhu, or Raidak, rises in the Himalayas. In its upper reaches it is also known as the Thimphu Chhu. The main river is a rapid stream, running over abed of large boulders. Between Thimphu and the confluence with the Paro Chhu, the course of the river is not severely confined but, after leaving the confluence, itruns through a narrow defile between very steep cliffs. It subsequently flows southeast through a comparatively open valley, its course strewn with large boulders against which the water foams violently. It is joined by several small tributaries flowing from nearby mountains. The river in discussion is the Raidak-II and corresponds to mid regime the river flow where the river velocity is comparatively high. The river broke outs to mid regime around 20 km north of the area. Due to high velocity, every year the good amount of gravels and sands are deposited in the river bed.

River Sankosh: The right bank of the Sankosh River forms the boundary of the district with Assam. The Glentani is its principal tributary.

River Jayanti: This is also an important sand producing river of Alipurduar district.

Other than these five major rivers there are many small rivers or streams are present in the Alipurduar District.

a) Drainage System with description of main rivers

Table No. 7.1: Drainage system with description of main rivers

Sl.No.	Name of the River	Area drained (Sq km)	% Area drained in the district
1	Torsa River	6292.44	2.00
2	Raidak River	3928.64	1.25
3	Jayanti River	1212.53	0.38
4	Kaljani River	3206.53	1.02
5	Angrabhasa River	1771.25	0.56
6	Sankosh River	532.77	0.16

c) Salient Features of important rivers and streams

Table No. 7.2: Salient Features of important rivers and streams

Sl. No.	Name of the River or Stream	Total Length in the District (in Km)	Place of origin	Altitude at Origin
1	Torsa River	43	Chumbi Valley in Yadong county, Tibet	3000 m
2	Raidak River	58	Mount Akungphu at the Himalayan Range	6400 m
3	Jayanti River	55	Near buxa Hill, South Bhutan	280 m
4	Kaljani River	69	Two rivers rising from Bhutan viz. Alaikuri and Dima take name of Kaljani after they unite near Alipurduar South Bhutan, tributary of Torsha	292 m
5	Angabarsa River	37	South Bhutan Hills	305 m
6	Sankosh River	25	Northern Hills of Lighsi and Laya in Bhutan, Punakha Valley	12000 m

ii) Annual deposition of riverbed minerals

Annual deposition of riverbed minerals is dependent on various factors which are explained below.

A. Geomorphological studies

Geomorphological characteristic of a river is foremost factor for annual deposition of sedimentary load. The study includes following parameter:

i) Place of Origin

Details of origin of rivers of Alipurduar District are furnished in Table 7.3.

Table No. 7.3: Place of Origin of important rivers and streams

Name of the River or Stream	Place of origin
Torsa River	Chumbi Valley in Yadong county, Tibet
Raidak River	Mount Akungphu at the Himalayan Range
Jayanti River	Near buxa Hill, South Bhutan
Kaljani River	Two rivers rising from Bhutan viz. Alaikuri and Dima take name of Kaljani after they unite near Alipurduar South Bhutan, tributary of Torsha
Angabarsa River	South Bhutan Hills
Sankosh River	Northern Hills of Lighsi and Laya in Bhutan, Punakha Valley

ii) Catchment Area

The Alipurduar district is mainly drained by the Torsa, Raidak, Sankosh, Jayanti, Kaljani, Angabarsha and Sankosh River. These rivers and its tributary rivers are forming the main catchment area.

iii) General profile of river stream

River profile has been studied along the cross-section lines which was chosen based on the drastic variation of the river widths, proximity of the operating sand ghats and the position of the sand bars.

Relative disposition of rivers in Alipurduar district along with the distribution of the section lines are shown in figure 7.1.

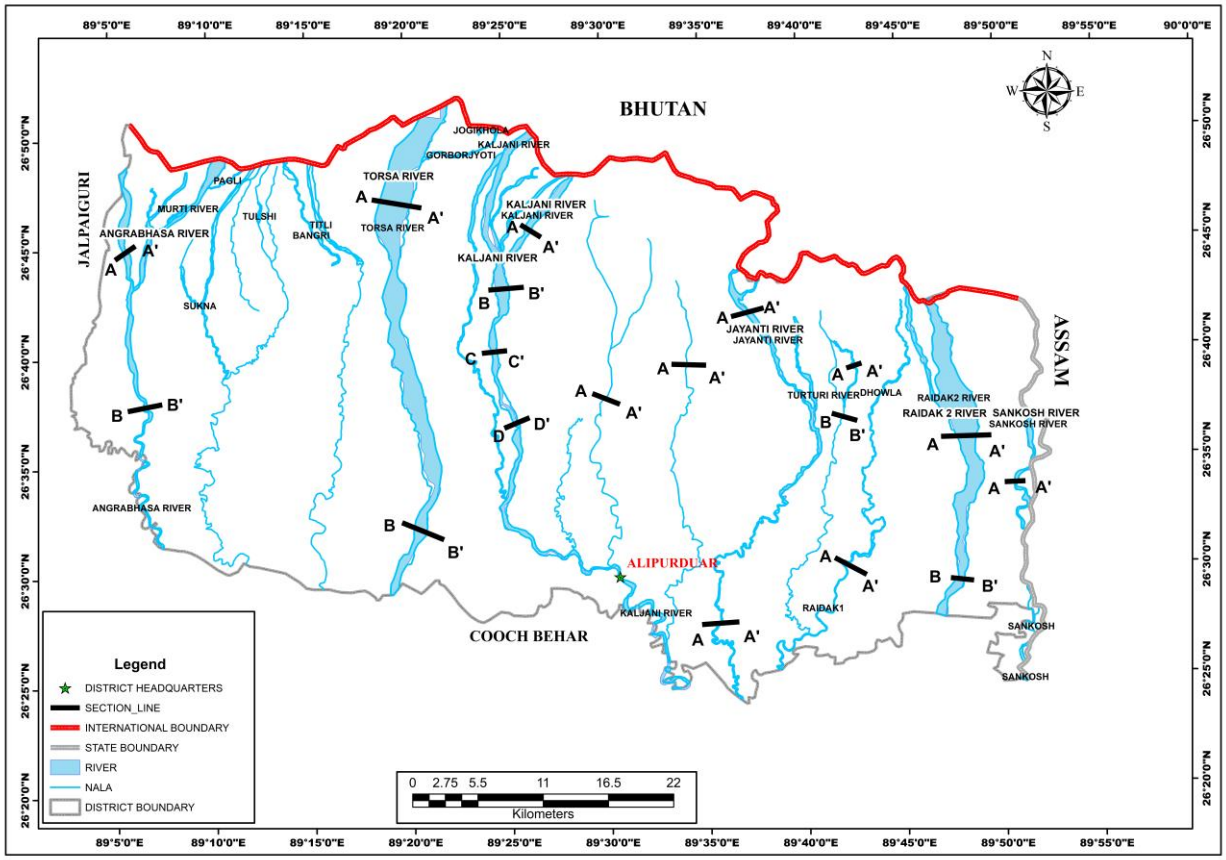


Figure No.7.1: Plan showing the major rivers along with the distribution of section lines, Alipurduar district, West Bengal

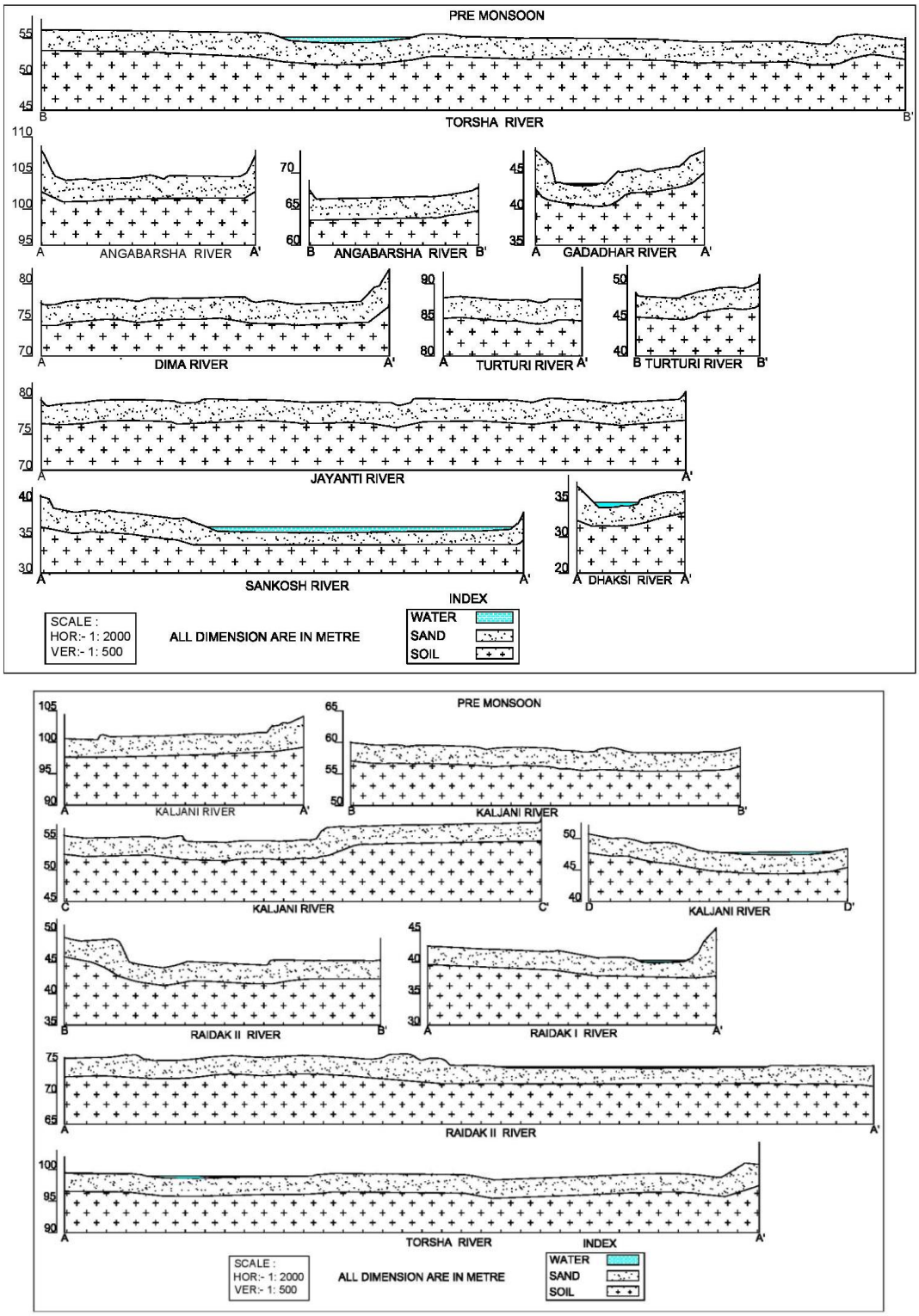


Figure No.7.2: River cross section during pre monsoon period

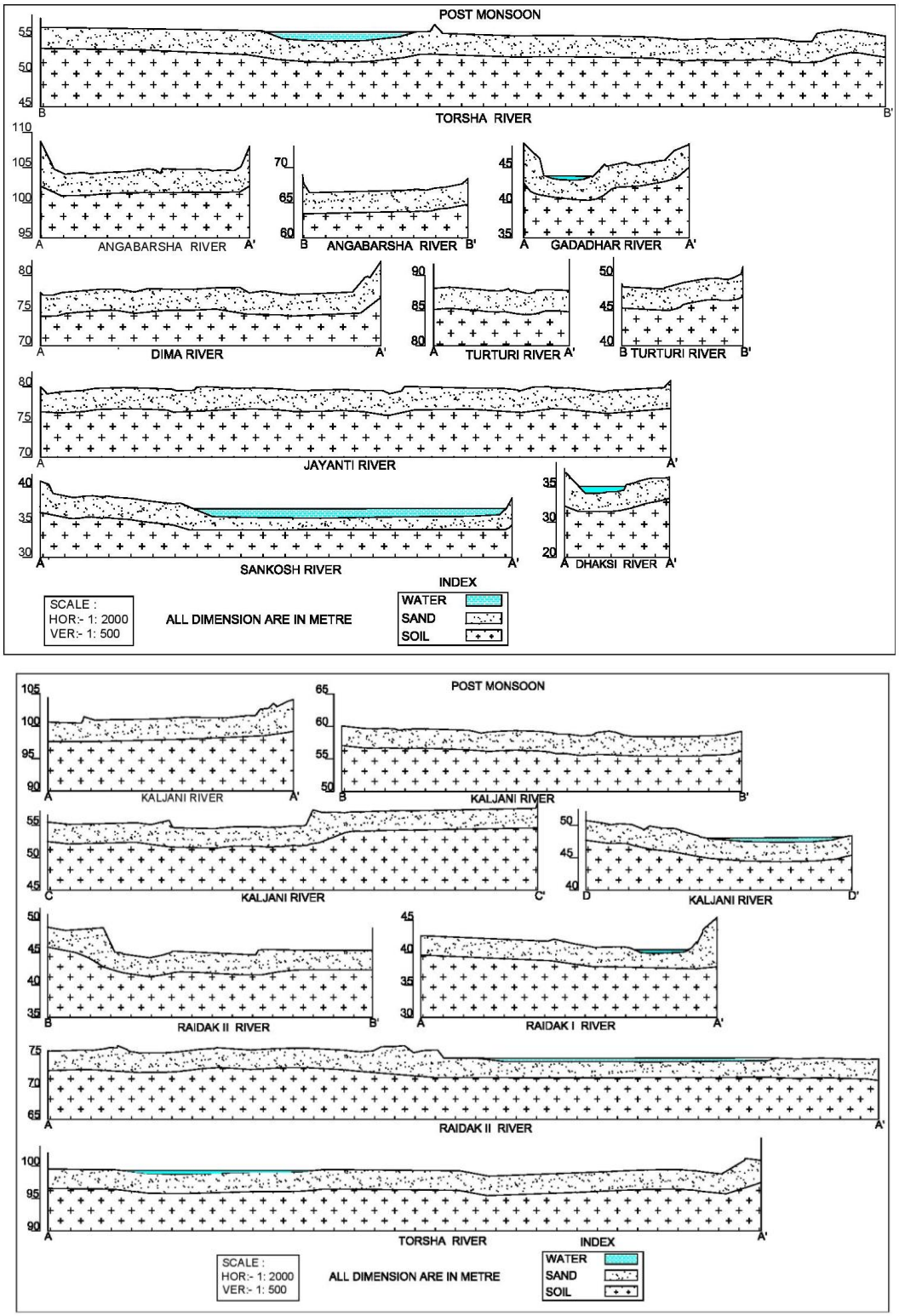


Figure No.7.3: River cross section during post monsoon period

iv) Annual deposition factor

Annual deposition of riverbed materials depends on various factors, such as process of deposition, mode of sediment transport, sediment transport rate, and sediment yield of the river.

1. Process of deposition

Deposition is the processes where material being transported by a river is deposited. Deposition occurs when the forces responsible for sediment transportation are no longer sufficient to overcome the forces of gravity and friction, creating a resistance to motion; this is known as the null-point hypothesis. This can be when a river enters a shallow area or towards its mouth where it meets another body of water.

The principle underlying the null point theory is due to the gravitational force; finer sediments remain in the water column for longer durations allowing transportation outside the surf zone to deposit under calmer conditions. The gravitational effect or settling velocity determines the location of deposition for finer sediments, whereas a grain's internal angle of friction determines the deposition of larger grains on a shore profile.

Deposition of non-cohesive sediments: Large-grain sediments transported by either bedload or suspended load. In case of bedload, when there is insufficient bed shear stress and fluid turbulence are insufficient to keep the sediment moving, the grain cease horizontal movement and rapidly come to rest. In case of suspended load the grain settle longer distance vertically through the fluid before coming to rest.

Deposition of cohesive sediments: The cohesion of sediment occurs with the small grain sizes associated with silts and clays, or particles smaller than 4Φ or 62.5 μm. If these fine particles remain dispersed in the water column, Stokes law applies to the settling velocity of the individual grains. The face of a clay platelet has a slight negative charge where the edge has a slight positive charge when two platelets come into close proximity with each other the face of one particle and the edge of the other are electrostatically attracted, and then have a higher combined mass which leads to quicker deposition through a higher fall velocity.

2. Mode of sediment transport in rivers

Sediment transport in rivers provides a dynamic linkage between flow and channel form. Mainly there are three processes by which sediment load is transported



and these are (i) rolling or traction, in which the particle moves along a sedimentary bed but is too heavy to be lifted from it; (ii) saltation; and (iii) suspension, in which particles remain permanently above the bed, sustained there by the turbulent flow of the water.

Another name for sediment transport is sediment load. The total load includes all particles moving as bedload, suspended load, and wash load.

Bed load: Bedload is the portion of sediment transport that rolls, slides or bounces along the bottom of a waterway. This sediment is not truly suspended, as it sustains intermittent contact with the streambed, and the movement is neither uniform nor continuous. Bedload occurs when the force of the water flow is strong enough to overcome the weight and cohesion of the sediment. While the particles are pushed along, they typically do not move as fast as the water around them, as the flow rate is not great enough to fully suspend them. Bedload transport can occur during low flows (smaller particles) or at high flows (for larger particles). Approximately 5-20% of total sediment transport is bedload. In situations where the flow rate is strong enough, some of the smaller bedload particles can be pushed up into the water column and become suspended.

Suspended load: While there is often overlap, the suspended load and suspended sediment are not the same thing. Suspended sediment are any particles found in the water column, whether the water is flowing or not. The suspended load, on the other hand, is the amount of sediment carried downstream within the water column by the water flow. Suspended loads require moving water, as the water flow creates small upward currents (turbulence) that keep the particles above the bed. The size of the particles that can be carried as suspended load is dependent on the flow rate. Larger particles are more likely to fall through the upward currents to the bottom, unless the flow rate increases, increasing the turbulence at the streambed. In addition, suspended sediment will not necessarily remain suspended if the flow rate slows.

Wash load: The wash load is a subset of the suspended load. This load is comprised of the finest suspended sediment (typically less than 0.00195 mm in diameter). The wash load is differentiated from the suspended load because it will not settle to the bottom of a waterway during a low or no flow period. Instead, these particles remain in permanent suspension as they are small enough to bounce off water molecules and stay afloat. However, during flow periods, the wash load and suspended load are indistinguishable.



3. Sediment Transport Rate

The rate at which sediment is moved past a cross section of the flow is called either the sediment transport rate or the sediment discharge. It's related to the sediment load, but it's different, just because different fractions of the sediment load are transported at different rates. It can be measured in mass per unit time, or in weight per unit time, or in volume per unit time. The sediment transport rate is commonly denoted by Qs.

4. Estimation of Sedimentation

There are two approaches to obtaining values describing sediment loads in streams. One is based on direct measurement of the quantities of interest, and the other on relations developed between hydraulic parameters and sediment transport potential.

The total bed material load is equal to the sum of the bedload and the bed material part of the suspended load; in terms of volume transport per unit width, qt = qb + qs. Here wash load, i.e. that part of the suspended load that is too fine to be contained in measurable quantities in the river bed, is excluded from qs.

There are number of equations to compute the total sediment load. Most of these equations have some theoretical and empirical bases.

In 1973, Ackers and White developed a general theory for sediment transport which was calibrated against the flume-transport data then available. Their functions have been widely accepted as one of the best available procedures for estimating the total bed over the full width of the flow section.

Dendy-Bolton formula is often used to calculate the sedimentation yield. But use of these equations to predict sediment yield for a specific location would be unwise because of the wide variability caused by local factors not considered in the equations development. However, they may provide a quick, rough approximation of mean sediment yields on a regional basis. Computed sediment yields normally would be low for highly erosive areas and high for well stabilized drainage basins with high plant density because the equations are derived from average values. The equations express the general relationships between sediment yield, runoff, and drainage area.

5. Sediment Yield

The water that reaches a stream and its tributaries carries sediment eroded from the entire area drained by it. The total amount of erosional debris exported from such a drainage basin is its sediment load or sediment discharge and the sediment yield is the sediment discharge divided by the total drainage area of the river upstream of the cross section at which the sediment discharge is measured or estimated. Sediment yield is generally expressed as a volume or weight per unit area of drainage basin—e.g., as tons per square kilometre. Further, sediment yield is usually measured during a period of years, and the results are thus expressed as an annual average.

v) Replenishment Study (As per EMGSM guidelines, 2020):

Replenishment study for a river solely depends on estimation of sediment load for any river system and the estimation is a time consuming and should be done over a period. The process in general is very slow and hardly measurable on season to season basis except otherwise the effect of flood is induced which is again a cyclic phenomenon. Usually, replenishment or sediment deposition quantities can be estimated in the following ways as given below:

A. Replenishment study based on satellite imagery involves demarcation of sand bars potential for riverbed mining. Both pre and post monsoon images need to be analysed to established potential sand bars. Volume estimation of sand is done by multiplying Depth and Area of the sand bar. The sand bars are interpreted with the help of satellite imagery. Ground truthing has been done for 100% of the total identified sand bars. During ground truthing, width and length of each segment were physically measured. It has also been observed that in few cases, sand bars have attained more than 3 meters height from the average top level of the river beds. Considerations of sand resources have been restricted within 3 meters from the average top surface of the river bed.
B. Direct field measurement of the existing leases involving estimation of the volume difference of sand during pre and post-monsoon period. With systematic data acquisition, a model has developed for calculation of sediment yield and annual replenishment with variable components.
C. The replenishment estimation based on a theoretical empirical formula with the estimation of bed-load transport comprising of analytical models to calculate the replenishment estimation.

A. Replenishment estimation

Sedimentation in any river is dependent on sediment yield which depends on soil erosion in river's catchment area. Catchment yield is computed using Strange's Monsoon runoff tables for runoff coefficient against rainfall return period. Peak flood discharge calculated by using Dickens, Jarvis and Rational formula at 25, 50 and 100 years return period. The estimation of bed load transport is done using Ackers and White Equation.

Methodology Adopted: To delineate replenishment percentage in the river bed of the district, below mentioned steps have been followed.

- **Field data collation:**

Field data collations were done during April-2020, June-2020, November-2020 & March-2021 for starting period, pre monsoon period, post monsoon period & end period for the river ghats on continuous basis. However, the nonoperational areas were covered through traverses. In both the cases, relative elevation levels were captured through DGPS/ Electronic Total Station. Thickness of the sand bars was measured through sectional profiles. sieve analysis of the sands was carried out to assess their particle size distribution.

Physical benchmark also established using Total Station at the river site. Location of the benchmark tabulated in Table &.4 below.

Table No. 7.4: Co-ordinates of established Benchmark

Benchmark	Easting	Northing	Elevation
DIMA BRDG S1	749407.717	2948447.043	82.132
DIMA BRDG S2	749413.846	2948455.504	82.181
S3 HAMILNGKALJR	739544.609	2954107.043	103.543
S4 HAMILNGKALJR	739530.947	2954145.569	106.127
S5 ANG R BIRPARA	708899.114	2955389.885	107.925
S6 ANG R BIRPARA	708913.856	2955369.021	107.975
S7 ALINAGAR ANG	710025.335	2945799.160	67.857
S8 ALINAGAR ANG	710021.249	2945799.657	67.832
A1 SAN R BOR	784634.284	2930902.822	40.372
A2 SAN R BOR	784629.639	2930904.356	40.827
A3 RAI2	778637.000	2932970.672	48.606
A4 RAI2	778627.697	2933002.918	48.908
A5 DHARSI	764378.041	2931406.678	37.320

Benchmark	Easting	Northing	Elevation
A6 DHARSI	764286.047	2931425.353	37.095
A7 GADADHAR R	758635.859	2932843.964	49.284
A8 GADADHAR R	758648.628	2932883.086	52.462
B1 TURTURI R	767281.158	2940186.476	49.921
B2 TURTURI R	767308.323	2940215.35	56.374
B3 JAYANTI R	766569.514	2946840.424	82.563
B4 JAYANTI R	766588.305	2946796.086	80.886
B5 TURTURI R	774080.343	2950902.676	88.344
B6 TURTURI R	774066.405	2950885.749	87.881
B7 RAIDAK2 R	777972.277	2946127.416	76.898
B8 RAIDAK2 R	778083.335	2946179.822	76.044
C1 KALJANI R	740633.118	2938517.97	59.726
C2 KALJANI R	740621.526	2938486.525	58.667
C3 TORSHA R	732051.313	2956343.278	100.852
C4 TORSHA R	732053.111	2956241.798	102.653



Figure No.7.4: Benchmark demarcated at Kaljani River section



Figure No.7.5: Site View of River Kaljani



Figure No.7.6: Site View of River Gadadhar

- **Selection of Study profiles:**

  Study profiles are selected based on the occurrence of the sand bars in the channel profiles. Aerial extents of each of the profiles are mapped from satellite imagery.

- **Data Compilation:**

  Following data were compiled for generation of this annual replenishment report:

  - Elevation levels of the different sand ghats and sand bars as measured at site.
  - Extents of the sand bars are measured from the pre monsoon satellite imagery.
  - Sand production data of the district.

- **Assessment of sediment load in the river:**

  Assessment of sediment load in a river is subjective to study of the whole catchment area, weathering index of the various rock types which acts as a source of sediments in the specific river bed, rainfall data over a period not less than 20 years, and finally the detail monitoring of the river bed upliftment with time axis. Again, the sediment load estimation is not a dependent variable of the district boundary, but it largely depends upon the aerial extents of the catchment areas, which crossed the district and state boundaries.

- **Estimation of annual sand deposition:**

  The major sand producing river of the Alipurduar district is Raidak, Sankosh and Torsha rivers. Planning has been done for systematic sand mining in the rivers.

  From the study in the pre monsoon period, altogether 204 sand bars are identified in Alipuduar district.

  In the post monsoon period, altogether 191 sand bars are identified in Alipurduardistrict.

  While calculation of the areas of sand bar, a classification system has been adopted with three categories of land identified within the channel areas which is as follows:

  a. The untapped Sand Bars.
  b. The Sand bars worked in the pre-monsoon period.
  c. Main channel course within the channel.

A summary of sediment load comparison between pre- and post-monsoon period for different rivers of Alipurduar district is given in Table 7.5 and details of each sand bars along with their sand resources in pre monsoon and post monsoon periods are provided in Annexure 2. Maps showing distribution of sand bars on rivers of the Alipurduar district during pre- and post-monsoon period are depicted in Plate 2A and Plate 2B respectively.

Table No. 7.5: Sediment Load comparison between Pre & Post Monsoon periods for different rivers of Alipurduar district

River Name	Pre-Monsoon Sediment Load (Mcum)	Post Monsoon Sediment Load (Mcum)	Difference (Mcum)	Difference (%)
ANGABARSHA	3.84	4.26	0.42	11
MURTI	2.11	3.28	1.17	55
PAGLI	6.11	7.04	0.93	15
SUKNA	0.20	0.00	-0.20	0
BANGRI	0.15	0.65	0.50	327
TITLI	3.03	3.29	0.26	9
TORSHA	66.41	67.57	1.16	2
GOBORJYOTI	0.10	0.16	0.05	52
JOGIKHOLA	0.14	0.00	-0.14	0
KALJANI	54.41	57.91	3.50	6
JAYANTI	9.03	9.77	0.74	8
TURTURI	0.05	0.00	-0.05	0
DHOWLA	0.22	0.23	0.01	5
RAIDAK 1	0.54	0.60	0.06	11
RAIDAK 2	52.56	54.11	1.55	3
SANKOSH	7.38	8.19	0.81	11
TULSI	3.03	3.13	0.10	3
Total =	**209.33**	**220.21**	**10.88**	**5**

An average replenishment rate for the year 2020 for Alipurduar district comes to about 103%.

Long-term satellite imagery study has also been carried out for sand producing rivers of Alipurduar district to analyse the changes in river course. A representative map, showing long-term erosion-accretion areas on both the banks of Jayanti River, Alipurduar has been prepared and furnished as Plate No. 5B. Map shows changes in river channel through erosion and accretion of river bank as compare between 1985 and 2021 river courses.

B. Replenishment estimation based on field investigation

The study was carried out on existing mining leases. In order to assess the annual replenishment rate, an approach of direct measurement methodology has been adopted. The depth and area of the mining leases are measured through DGPS/Total station just before the closure of the mines in pre-monsoon period and the same areas are resurveyed in the post-monsoon period. The differences between the depths of the surveyed areas are accounted for the volumetric measurement of the replenished sand.

Table 7.6 represents field measurement of replenishment rate estimated for major rivers.

Table No. 7.6: Replenishment rate of the district

Location	River Name	Area	Surface RL	Thickness	Volume	After mining floor RL	Surface RL	Thickness	Volume	Difference in RL	Replenishment Rate
		m2	m	m	cum	m	m	m	cum	m	%
PurbaChakchaka	Raidak	21250.00	112.00	3.00	63750.00	109.00	111.96	2.96	62895.75	0.04	98.66%
Gachhimari	Raidak	23478.00	101.00	2.80	65738.40	98.20	100.95	2.75	64633.99	0.05	98.32%
Barobisha	Raidak	43389.00	97.00	2.90	125828.10	94.10	96.98	2.88	125173.79	0.02	99.48%
PurbaSatali	Kaljani	35900.00	98.00	3.00	107700.00	95.00	97.95	2.95	106062.96	0.05	98.48%
NimtiDomohini	Kaljani	25500.00	92.00	2.80	71400.00	89.20	91.93	2.73	69600.72	0.07	97.48%
SataliNakadala	Kaljani	33000.00	131.00	3.00	99000.00	128.00	130.95	2.95	97227.90	0.05	98.21%
Mechiya Busty	Torsha	35200.00	103.00	2.95	103840.00	100.05	102.95	2.90	102116.26	0.05	98.34%
Pradhanpara	Torsha	28000.00	97.00	2.90	81200.00	94.10	96.96	2.86	80111.92	0.04	98.66%
Madhya Paitkapara	Torsha	47500.00	92.00	2.85	135375.00	89.15	91.95	2.80	133100.70	0.05	98.32%
Madhya Haldibari	Sankosh	48000.00	110.00	3.00	144000.00	107.00	109.98	2.98	143251.20	0.02	99.48%
PurbaSalbari	Sankosh	45000.00	95.00	2.95	132750.00	92.05	94.96	2.91	130732.20	0.04	98.48%
Bhalka	Sankosh	35200.00	91.00	2.90	102080.00	88.10	90.95	2.85	100252.77	0.05	98.21%
Turturi Tea Garden	Dhowla	45000.00	95.00	2.70	121500.00	92.30	94.96	2.66	119483.10	0.04	98.34%
Damsibad	Turturi	33000.00	97.00	2.80	92400.00	94.20	96.96	2.76	91161.84	0.04	98.66%
HantaparaT.G	Bangri	29040.00	112.00	3.00	87120.00	109.00	111.95	2.95	85656.38	0.05	98.32%
BirparaT.G	Sukna	30400.00	92.00	2.70	82080.00	89.30	91.95	2.65	80569.73	0.05	98.16%
GarochiraBandapani	Murti	4500.00	93.00	2.80	12600.00	90.20	92.95	2.75	12375.72	0.05	98.22%
DalmoreT.G	Pagli	2500.00	90.00	2.50	6250.00	87.50	89.99	2.49	6217.50	0.01	99.48%

C. Replenishment estimation based on an empirical formula:

The river reaches with sand provide the resource and thus it is necessary to ascertain the rate of replenishment of the mineral. Regular replenishment study needs to be carried out to keep a balance between deposition and extraction.

Sediment load deposition in a river is depend on catchment area, weathering index of the various rock types of the catchment area, land-use pattern of the area, rainfall data and grain size distribution of the sediments. Again the sediment load



estimation is not a dependent variable of the district boundary, but it largely depends upon the aerial extents of the catchment areas, which crosses the district and state boundaries.

i. Methodology of the study:

The replenishment estimation is based on a theoretical empirical formula with the estimation of bedload transport comprising of analytical models to calculate the replenishment estimation. Sedimentation in riverbed depends on catchment yield, peak flood discharge due to rainfall, bed load transport rates and sediment yield characteristic of the river. Some of the common methods used for replenishment study are explained below.

a. Catchment Yield Calculation:

The total quantity of surface water that can be expected in a given period from a stream at the outlet of its catchment is known as yield of the catchment in that period. The annual yield from a catchment is the end product of various processes such as precipitation, infiltration and evapo-transpiration operating on the catchment.

Catchment Yield can be estimated using following formula:

Catchment Yield (m^3) =Catchment area (m^2) × Runoff coefficient (%) × Rainfall (m)

The runoff generated from the watershed is analyzed using Strange's Tables to get the reliable yield results. Runoff from a catchment is dependent upon annual rainfall as well as catchment characteristics such as soil types and the type of groundcover / land usage. Remote sensing was used for demarcation of catchment area relevant to the drainage system. Runoff coefficient of the catchment has been established based on Strange's Table.

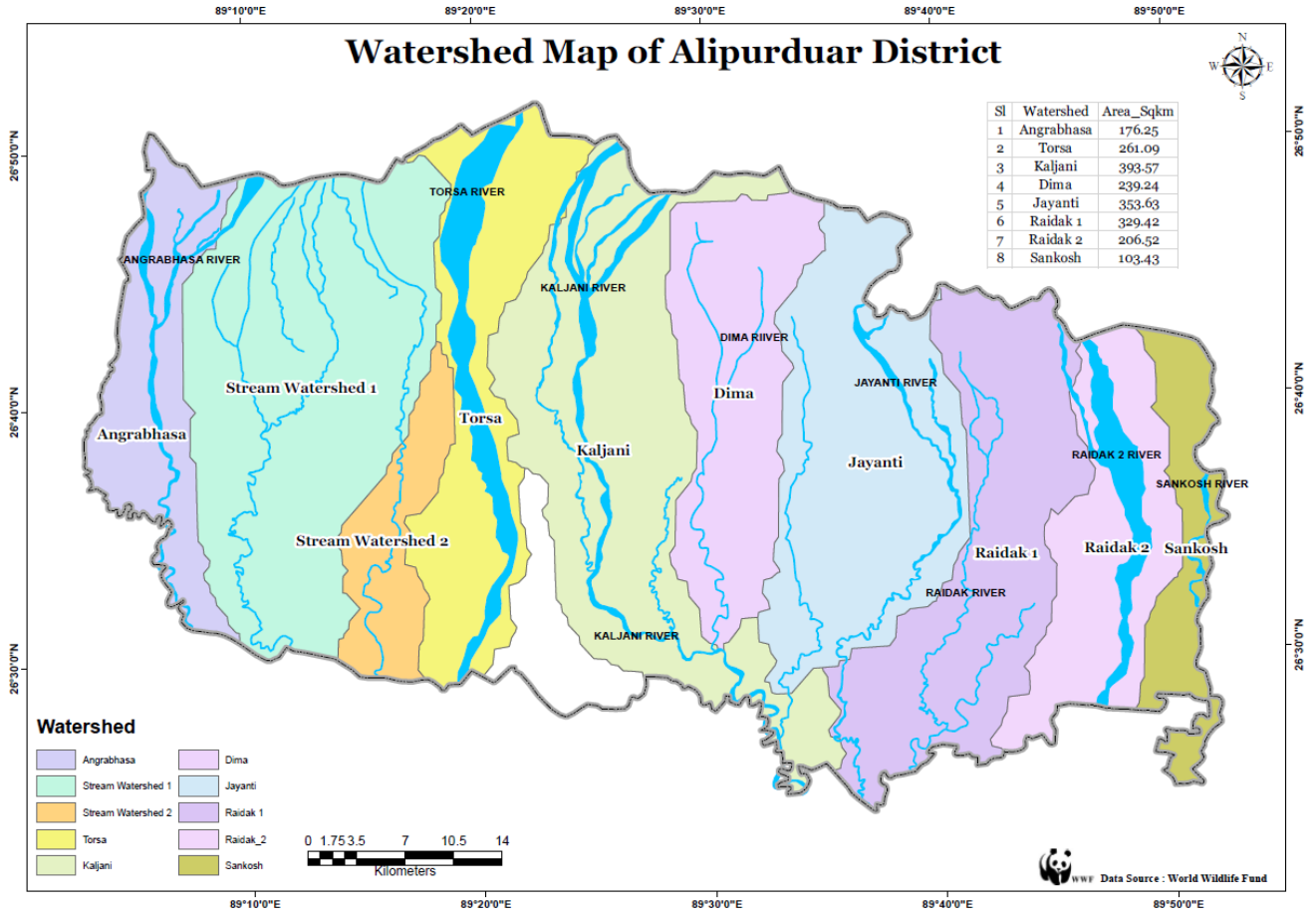


Figure No.7.7: Watershed map of Alipurduar District

Strange (1892) studied the available rainfall and runoff and obtained yield ratios as functions of indicators representing catchment characteristics. Catchments are classified as good, average and bad according to the relative magnitudes of yield of sediment. For example, catchment with good forest cover and having soils of high permeability would be classified as bad, while catchment having soils of low permeability and having little or no vegetal cover is termed good. Based on the study Strange established runoff coefficient table as given below:

Table No. 7.7: Runoff coefficient of the catchment based on Strange's table

Total monsoon rainfall (mm)	Runoff coefficient (%)			Total monsoon rainfall (mm)	Runoff coefficient (%)		
	Good catchment	Average catchment	Bad catchment		Good catchment	Average catchment	Bad catchment
25.4	0.1	0.1	0.1	787.4	27.4	20.5	13.7
50.8	0.2	0.2	0.1	812.8	28.5	21.3	14.2
76.2	0.4	0.3	0.2	838.2	29.6	22.2	14.8
101.6	0.7	0.5	0.3	863.6	30.8	23.1	15.4
127	1	0.7	0.5	889	31.9	23.9	15.9
152.4	1.5	1.1	0.7	914.4	33	24.7	16.5
177.8	2.1	1.5	1	939.8	34.1	25.5	17
203.2	2.8	2.1	1.4	965.2	35.3	26.4	17.6
228.6	3.5	2.6	1.7	990.6	36.4	27.3	18.2
254	4.3	3.2	2.1	1016	37.5	28.1	18.7
279.4	5.2	3.9	2.6	1041.4	38.6	28.9	19.3
304.8	6.2	4.6	3.1	1066.8	39.8	29.8	19.9
330.2	7.2	5.4	3.6	1092.2	40.9	30.6	20.4
355.6	8.3	6.2	4.1	1117.6	42	31.5	21
381	9.4	7	4.7	1143	43.1	32.3	21.5
406.4	10.5	7.8	5.2	1168.4	44.3	33.2	22.1
431.8	11.6	8.7	5.8	1193.8	45.4	34	22.7
457.2	12.8	9.6	6.4	1219.2	46.5	34.8	23.2
482.6	13.9	10.4	6.9	1244.6	47.6	35.7	23.8
508	15	11.3	7.5	1270	48.8	36.6	24.4
533.4	16.1	12	8	1295.4	49.9	37.4	24.9
558.8	17.3	12.9	8.6	1320.8	51	38.2	25.5
584.2	18.4	13.8	9.2	1346.2	52.1	39	26
609.6	19.5	14.6	9.7	1371.6	53.3	39.9	26.6
635	20.6	15.4	10.3	1397	54.4	40.8	27.2
660.4	21.8	16.3	10.9	1422.4	55.5	41.6	27.7
685.8	22.9	17.1	11.4	1447.8	56.6	42.4	28.3
711.2	24	18	12	1473.2	57.8	43.3	28.9
736.6	25.1	18.8	12.5	1498.6	58.9	44.4	29.4
762	26.3	19.7	13.1	1524	60	45	30

Rainfall returns period for 25, 50 and 100 years calculated as below:

As per Weibull's Formula,

Return period/Recurrence interval = (n+1)/m

Where: n number of years on record;

m is the rank of observed occurrences when arranged in descending order.



b. Peak Flood Discharge Calculation:

The term "peak discharge" stands for the highest concentration of runoff from the basin area. The accurate estimation of flood discharge remains one of the major challenges as it depends upon physical characteristic of the catchment area and the flood intensity, duration and distribution pattern. There have been many different approaches for determining the peak runoff from an area. As a result many different models (equations) for peak discharge estimation have been developed. Formulas used for Peak Discharge calculation are as below:

As per Dicken's formula (Subramanya, 2008),

$$\mathbf{Q = CA^{3/4}}$$

Where: Q is Maximum flood discharge (m^3/sec) in a river
A is Area of catchment in Sq. Km
C is Constant whose value varies widely between 2.8 to 5.6 for catchments in plains and 14 to 28 for catchments in hills

As per Jarvis formula (Subramanya, 2008),

$$\mathbf{Q = CA^{1/2}}$$

Where: Q is Maximum flood discharge (m^3/sec) in a river
A is Area of catchment in Sq. Km
C is Constant whose value varies between 1.77 as minimum and 177 as maximum. Limiting or 100 percent chance floods are given by the value of C of 177

As per Rational formula (Subramanya, 2008),

$$\mathbf{Q = CIA}$$

Where: Q is Maximum flood discharge (m^3/sec) in a river
A is Area of catchment in Sq. Km
C is Runoff coefficient which depends on the characteristics of the catchment area. It is a ratio of runoff: rainfall
I is Intensity of rainfall (in m/sec)

c. Bed Load Transport Calculation:

The most important problems in river engineering are to predict bed load transport rates in torrential floods flowing from mountainous streams. Three modes of transport namely; rolling, sliding and saltation may occur simultaneously in bed load transport. The different modes of transportation are closely related and it is difficult, if not impossible, to separate them completely. There are number of equations to compute the total sediment load. Most of these equations have some theoretical and empirical bases.



Ackers and White Equation:

Ackers and White (1973) used dimensional analysis based on flow power concept and their proposed formula is as follows.

$$C_t = C_s G_s (d_{50}/h) (V/U_*)^{n'} [(F_{gr}/A_1) - 1]^m$$

The dimensionless particle d_{gr} is calculated by:

$$d_{gr} = d_{50} (g(G_s-1)/v^2)^{1/3}$$

The particle mobility factor F_{gr} is calculated by:

$$F_{gr} = (U_* \times n'/(G_s-1) g\, d_{50})^{1/2} \times (V/(5.66 \log(10h/d_{50}))^{1-n'}$$

Where,

A_1 = Critical particle mobility factor

C_s = Concentration coefficient in the sediment transport function

C_t = Total sediment concentration

d_{50} = Median grain size

d_{gr} = Dimensionless particle diameter

F_{gr} = Particle mobility parameter

g = Acceleration of gravity

D_s, S_g = Specific gravity

h = Water depth

m = Exponent in the sediment transport function

n' = Manning roughness coefficient

U_* = Shear velocity

V = Mean flow velocity

ν = Kinematic viscosity

Meyer – Peter's equation:

Meyer-Peter's equation (Ponce, 1989) is based on experimental work carried out at the Federal Institute of Technology, Zurich. Mayer-Peter gave a dimensionless equation based on rational laws. Mayer- Peter equation gave an empirical formula of bed load transport rates in flumes and natural rivers. The simplified Meyer-Peter's equation is given below:

$$g_b = 0.417[\tau_0 (\eta'/\eta)^{1.5} - \tau_c]^{1.5}$$

Where,

gb = Rate of bed load transport (by weight) in N per m width of channel per second.

η' = Manning's coefficient pertaining to grain size on an unrippled bed and Strickler formula i.e. η' = (1/24) x d1/6 where d is the median size (d_{50}) of the bed sediment in m.



η = The actual observed value of the rugosity coefficient on rippled channels. Its value is generally taken as 0.020 for discharges of more than 11 cumecs, and 0.0225 for lower discharges.

τc = Critical shear stress required to move the grain in N/m2 and given by equation τc = 0.687 da, where da is mean or average size of the sediment in mm. This arithmetic average size is usually found to vary between d_{50} and d_{60}.

τ0= Unit tractive force produced by flowing water i.e. γwRS. Truly speaking, its value should be taken as the unit tractive force produced by the flowing water on bed = 0.97γwRS. R is the hydraulic mean depth of the channel (depth of flow for wider channel) and S is the bed slope.

d. Sediment Yield Estimation:

Sedimentation occur as the velocity decreases along with its ability to carry sediment. Coarse sediments deposit first, then interfere with the channel conveyance, and may cause additional river meanders and distributaries. The area of the flowing water expands, the depth decreases, the velocity is reduced, and eventually even fine sediments begin to deposit. As a result, deltas may be formed in the upper portion of reservoirs. The deposited material may later be moved to deeper portions of the reservoir by hyraulic processes within the water body.

There are many sediment transport equations which are suitable for use in the prediction of the rate of replenishment of river. Some of the famous sediment equations are:

1. Dendy – Bolton Equation
2. Yang Equations
3. Engelund-Hansen Equation
4. Modified Universal Soil Loss Equation (MUSLE) developed by Williams and Berndt (1977)

Dendy – Bolton Equation:

Dendy – Bolton formula is often used to calculate the sediment yield because:-

- The formula uses catchment area and mean annual runoff as key determinants.
- It does not differentiate in basin wide smaller streams and their characteristics.
- Dendy and Bolton equation calculates all types of sediment yield i.e. sheet and rill erosion sediments, gully erosion sediments, channel bed and bank erosion sediments and mass movement etc.

Dendy-Bolton determined the combined influence of runoff and drainage area on sediment yield to compute the sediment yield. They developed two equations i.e. for run off less than 2 inch and for run off more than 2 inch, which are given below:

For run off less than 2 inch:

(Q<2in) $S=1289\times (Q)^{0.46}\times [1.43-0.26 \text{ Log } (A)]$

For run off more than 2 inches:

(Q > 2 in): $S= 1958\times (e^{-0.055*Q}) \times [1.43-0.26 \text{ Log } (A)]$
Where: S = Sediment yield (tons/sq miles/yr)

Q = Mean Annual runoff (inch)

A = Net drainage are in sq mile

Dendy-Bolton formula is often used to calculate the sediment yield. But use of these equations to predict sediment yield for a specific location would be unwise because of the wide variability caused by local factors not considered in the equations development. However, they may provide a quick, rough approximation of mean sediment yields on a regional basis for preliminary watershed planning. Computed sediment yields normally would be low for highly erosive areas and high for well stabilized drainage basins with high vegetation density because the equations are derived from average values. The equations express the general relationships between sediment yield, runoff, and drainage area. Many variables influence sediment yield from a drainage basin. They include climate, drainage area, soils, geology, topography, vegetation and land use. The effect of any of these variables may vary greatly from one geographic location to another, and the relative importance of controlling factors often varies within a given land resource area. Studies revealed that sediment yield per unit area generally decreases as drainage area increases. As drainage area increases, average land slopes usually decrease; and there is less probability of an intense rainstorm over the entire basin. Both phenomena tend to decrease sediment yield per unit area.

Modified Universal Soil Loss Equation (MUSLE):
Modified universal soil loss equation (MUSLE) for estimation of sediment yield is also used widely. MUSLE is a modification of the Universal Soil Loss Equation (USLE). USLE is an estimate of sheet and rill soil movement down a uniform slope using rain- fall energy as the erosive force acting on the soil (Wischmeier and Smith 1978). Depending on soil characteristics (texture,

structure, organic matter, and permeability), some soils erode easily while others are inherently more resistant to the erosive action of rain- fall.

MUSLE is similar to USLE except for the energy component. USLE depends strictly upon rainfall as the source of erosive energy. MUSLE uses storm-based runoff volumes and runoff peak flows to simulate erosion and sediment yield (Williams 1995). The use ofrunoff variables rather than rainfall erosivity as the driving force enables MUSLE to estimate sediment yields for individual storm events. The generalized formula of MUSLE is as below:

$$Y=11.8\times (Q\times qP).56 \times K\times Ls\times C\times P$$

Where,

Y = sediment yield of stream (t/yr/km2),
Q = average annual runoff (m3),
K = soil erodibility factor,
qP = Highest discharge recorded (m3/s),
Ls = gradient/slope length,
C = cover management factor,
P = erosion control practice

ii. Estimation of Replenishment:

Alipurduar district forms a part of the Sub-Himalayan Zone. This foot hill zone rises from the alluvial plain on the south, gradually gains elevation and ruggedness northwards to a steep range with altitudes 1700m and above at the Bhutan border. The maximum relief in the area is about 1550 m. The drainage is controlled by the general slope of the terrain, as a number of southerly flowing nalas with steep gradients drain the area. The Alipurduar district is mainly drained by the Torsa, Raidak, Sankosh, Jayanti, Kaljani, Angabarsha and Sankosh River. These rivers and its tributary rivers are forming the main catchment area.

For replenishment study, following assumption/calculation taken in to consideration:

- Catchment area (Watershed area) against each river has been calculated based on remote sensing data.
- Rainfall runoff coefficient as per Strange's table for the catchment area is consider 45%, as the rainfall in the district is more than 1524 mm and the characteristic of the catchment of the district is average in nature.
- Peak flood discharge of the river of the district calculated based on Dicken's formula which is more applicable to north Indian and central Indian catchment. Here Dicken constant C is taken as 12 in present study as per published literature by Saha (2002).

- Bed load transport has not been computed in the regional aspect of the district, as the values are highly dependent on local factors such as particle mobility factor, roughness coefficient, Shear velocity, Mean flow velocity, Kinematic viscosity etc.
- Sedimentation yield calculated as per Dendy-Bolton formula as the equations express the general relationships between sediment yield, runoff, and drainage area.
- Computed sediment yields by Dendy-Bolton formula normally would be low for highly erosive areas and high for well stabilized drainage basins with high plant density because the equations are derived from average values.

The data estimated for each river in the district are tabulated below.

Table No. 7.8: Replenishment parameter estimated for each river in the district

Estimation parameter	Torsa	Raidak	Sankosh	Jayanti	Kaljani	Angabarsha
Catchment Area (m^2)	261090000	329420000	103430000	353630000	393570000	176250000
Annual Rainfall (m) (in 2020)	4.975	4.975	4.975	4.975	4.975	4.975
Flow depth d (m)	0.5	0.5	0.5	0.5	0.5	0.5
Channel width b (m)	401.13	492.12	120.24	208.09	254.39	315.29
Mean velocity v (m/s)	0.1	0.09	0.08	0.08	0.07	0.05
Channel slope S_o (m/m)	0.01	0.01	0.01	0.01	0.008	0.005
Sediment Yield (M.Tonnes/year)	3.43	4.2	1.51	4.47	4.9	2.43
Estimated Annual Replenishment (in million m3)	1.28	1.57	0.57	1.67	1.84	0.91

Year-wise sedimentation rate for last 5 years of each river has been calculated as below. Sedimentation rate of a river is dependent on the annual rainfall of the district.

Table No. 7.9: Year-wise sedimentation rate for last 5 years of each river

Year	Torsa	Raidak	Sankosh	Jayanti	Kaljani	Angabarsha
2016	37.17	45.55	16.42	48.45	53.18	26.32
2017	60.68	74.35	26.8	79.09	86.8	42.96
2018	79.19	97.04	34.98	103.22	113.29	56.07
2019	94.73	116.06	41.84	123.46	135.51	67.07
2020	3.43	4.2	1.51	4.47	4.9	2.43

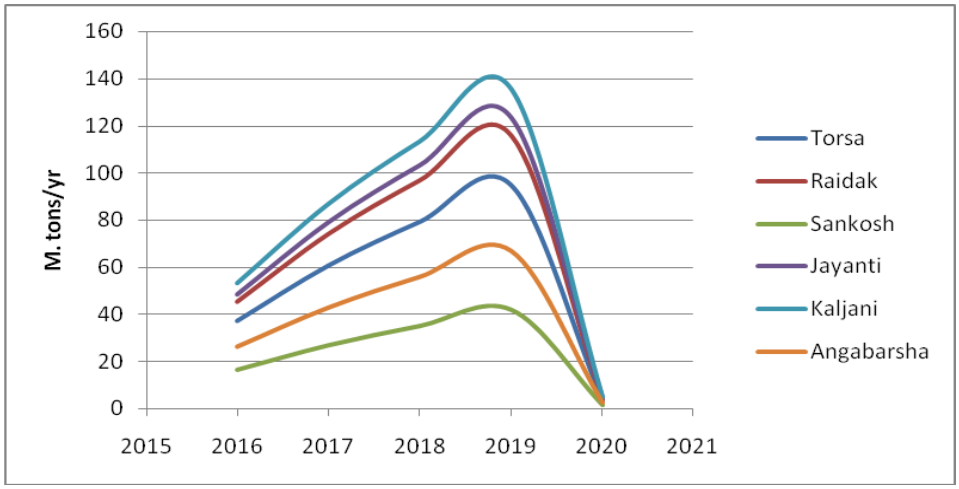


Figure No. 7.8: Graphical representation of year-wise sedimentation rate

The estimation of sedimentation based on empirical formula need critical analysis of different factors related to the LULC property of the catchment area, slope geometry, sediment erosion factor of catchment litho-type. This will help to assess replenishment rate more precisely.

Replenishment studies based on empirical formula for existing mining leases have also been conducted and are given in Table 7.10.

Table No.7.10: River wise replenishment rate estimation based on empirical formula

Location	River Name	Lease Area	Surface RL Before mining	Mine out Thickness	Mine out Volume	Drainage area for lease block	Monsoon Rainfall-2020	Estimated Volume as per Dendy- Bolton	Replenishment Rate
		m2	m	m	cum	Km2	m	cum	%
Purba Chakchaka	Raidak	21250.00	112.00	3.00	63750.00	0.210	3.46	52434.46	82.25%
Gachhimari	Raidak	23478.00	101.00	2.80	65738.40	0.220		56179.78	85.46%
Barobisha	Raidak	43389.00	97.00	2.90	125828.10	0.440		104868.91	83.34%
Purba Satali	Kaljani	35900.00	98.00	3.00	107700.00	0.330		79698.00	74.00%
Nimti Domohini	Kaljani	25500.00	92.00	2.80	71400.00	0.208		53550.00	75.00%
Satali Nakadala	Kaljani	33000.00	131.00	3.00	99000.00	0.310		78210.00	79.00%
Mechiya Busty	Torsha	35200.00	103.00	2.95	103840.00	0.380		93456.00	90.00%

Location	River Name	Lease Area	Surface RL Before mining	Mine out Thickness	Mine out Volume	Drainage area for lease block	Monsoon Rainfall-2020	Estimated Volume as per Dendy- Bolton	Replenishment Rate
		m2	m	m	cum	Km2	m	cum	%
Pradhanpara	Torsha	28000.00	97.00	2.90	81200.00	0.258		66584.00	82.00%
Madhya Paitkapara	Torsha	47500.00	92.00	2.85	135375.00	0.445		105592.50	78.00%
Madhya Haldibari	Sankosh	48000.00	110.00	3.00	144000.00	0.447		105120.00	73.00%
PurbaSalbari	Sankosh	45000.00	95.00	2.95	132750.00	0.441		100890.00	76.00%
Bhalka	Sankosh	35200.00	91.00	2.90	102080.00	0.346		82684.80	81.00%

Theoretical Replenishment study based on mining lease shows variation from 73% to 90% with an average of 82% of replenishment rate in the district. Illustration of Replenishment Estimation is given in Table 7.11.

Table No.7.11: Illustration of Replenishment Studies

Based on Satellite imageries		Based on field investigation		Based on empirical formula	
Particulars	Estimation	Particulars	Estimation	Particulars	Estimation
		River Name	Raidak	River Name	Raidak
River	Raidak	Location	Purba Chakchaka	Location	Purba Chakchaka
Total Pre-monsoon Sand Bar Area	18127774.89 (sq.m)	Mining Area	21250 (Sq.m)	Lease Area	21250 (Sq.m)
Average Pre monsoon Thickness	2.9 (m)	Pre monsoon RL	112 (m)	Surface RL Before mining	112 (m)
Total Sand Volume	52.56 (Mcum)	Sand Thickness	3 (m)	Mine out Thickness	3 (m)
Total Post-monsoon Sand Bar Area	18035316 (sq.m)	Volume excavated (Cum)	63750.00	Mine out Volume (Cum)	63750 (Cum)
Average Post-monsoon Thickness	3 (m)	Post monsoon RL	111.96 (m)	Drainage area for lease block	0.21 (Sq.km)
Total Sand Volume	54.11 (M.cum)	Thickness	2.96 (m)	Monsoon Rainfall-2020	3.46 (m)
Pre and Post monsoon Volume Difference	1.55 (M.cum)	Volume deposited (Cum)	62895.75	Estimated Volume as per Dendy- Bolton (S = 1280 Q0.46[1.43 - 0.26 log(A)]) Where, Q is runoff, A is drainage area)	52434.46 (Cum)
Replenishment and Agrredation %	103%	Replenishment Rate	98.66%	Replenishment Rate	82.3%

Table 7.12 explained comparison of the outcome of these three methodologies adopted for the district.

Table No. 7.12: Comparison of replenishment studies

Replenishment Study Method	Torsa	Raidak	Sankosh	Jayanti	Kaljani	Angabarsha
Estimated Annual Replenishment based on satellite imagery **(*)**	101.67%	102.93%	113.09%	103.84%	106.6%	100.51%
Estimated Annual Replenishment based on field investigation	98.44%	98.32%	98.72%	98.01%	98.06%	98.5%
Estimated Annual Replenishment based on empirical formula	83.33%	83.68%	76.67%	78.3%	76.0%	78.2%

(*)Replenishment study based on satellite imagery involves estimation of replenish volume along with aggredation volume.

vi) Total potential of minor mineral in the river bed

The major sand producing rivers of the Alipurduar district are Raidak, Torsa, Sankosh, Kaljani, Jayanti etc. rivers.

B. Geological studies

i) Lithology of the catchment area

The overall rock type of the catchment area is mainly consisting of Coarse grained, micaceous, sub-greywacke with pallets of clay, Lamprophyres and quartz veins, tectonically mixed, boudinaged quartzite sandstone with crushed carbonaceous material and Dolomite and ortho-quartzite with variegated phyllites.

ii) Tectonics and structural behavior of rocks

There a number of major thrusts in the Jayanti area, causing reversal in the sequence of formations here. The younger rocks are progressively overlain (structurally) by older rocks. Thus, from south to north, the successive rock formations belong to the Siwaliks, Gondwanas, Buxas and Dalings. Towards the south, the Main boundary fault brings the Siwaliks in contact with the Gondwanas. The Buxas ara brought close to the Gondwanas by the Buxa thrust. In the northern part of the area, a thrust separates the

Dalings from the underlying Buxas. The bds in general show dips varying from 35° to 80° in the northeasterly or east-northeasterly direction.

In the area investigated, no major structural features were observed. Beds show dip varying from 25° to 45° in the northerly direction.

C. Climate Factors

i) Intensity of rainfall

Alipurduar district experiences sub-tropical climate, which is characterized by hot summer from March to May and well distributed rain fall during southwest monsoon from June to October. Normal average rain-fall of this area is 1500 - 1800 mm. Number of rain-fall days is about 72 (February to October).

ii) Climate zone

Climate of the Alipurduar district is sub-tropical monsoonal in nature. The climate of Alipurduar Sub-division is interesting because of its position in relation to the Tibetan landmass, the wide differences in altitudes, the powerful effect of the monsoons against the Himalayan barrier and the peculiar configuration of the neighboring monsoons, which deflect winds and affect local temperature and rainfall.

iii) Temperature variation

Alipurduar district experiences subtropical climate, which is characterized by hot summer from March to May and well distributed rain fall during southwest monsoon from June to October. Winter season in the area is marked by dry and cold weather during the month of November to February. Maximum temperature ranges between 31° C - 35° C with minimum temperature between 6.8-9.5° C. In general, climate of this station is hot and humid.

Annual Deposition:

Annual deposition of riverbed minerals has been calculated on post-monsoon sand volume. The pre-monsoon sand volume of the river is the depleted resources and is replenished by the monsoon rainfall.

Sand bar area recommended for mineral concession in the table is calculated as per the Enforcement and Monitoring Guidelines for Sand Mining (EMGSM) 2020. As per guidelines, mining depth restricted to 3 meters depth and distance from the bank is ¼th of river width and not less than 7.5 meters. Also mining is prohibitated up to a distance of 1 kilometre (1 km) from major bridges and highways on both sides, or five times (5x) of the span (x) of a bridge/public civil structure (including water intake points) on up-stream side and ten times (10x) the span of such bridge on down-stream side, subjected to a minimum of 250 meters on the upstream side and 500 meters on the downstream side.

For the purpose of estimating mineable mineral potential, the thickness of the sand bar considered extractable based on base flow level. The annual minable mineral potential is given in Table 7.13.

Table No. 7.13: Annual deposition of Riverbed minerals

Sl. No.	River or Stream	Portion of the river stream recommended for mineral concession (%)	Length of area recommended for mineral concession (in meter)	Average width of area recommended for mineral concession (in meters)	Area recommended for mineral concession (in Sqm)	Mineable mineral potential (in Mcum) (60% of total mineral potential	Thickness in m
1	ANGRABHASA	27	4879	341	1665993	2.10	2.10
2	MURTI	31	395	3342	1320048	1.74	2.20
3	PAGLI	56	1960	183	359627.3939	0.50	2.30
4	BANGRI	45	3135	70	219980.4985	0.29	2.20
5	TITLI	41	4645	262	1217221.091	1.53	2.10
6	TORSA	34	10254	1605	16454147.69	29.62	3.00
7	KALJANI	36	59626	254	15168248.57	27.30	3.00
8	JAYANTI	39	4350	642	2793179	5.03	3.00
9	DHOLWA	3	901	71	64179.49	0.12	3.00
10	RAIDAK 1	11	2250	81	182499.44	0.33	3.00
11	RAIDAK 2	65	26554	492	13067845.32	23.52	3.00
12	SANKOSH	75	16093	120	1935002.37	3.48	3.00
13	GOBORJYOTI	25	873	72	62837.14	0.09	2.50
14	TULSI	27	9264	169	1566348.014	1.88	2.00

iii) Riverbed Mineral Potential

Process of disposition etc:

Sand: Huge quantity of quality sands are found to occur in part of Torsa, Raidak, Sankosh and Jayanti Rivers mainly. Smaller patches are also available locally in the other smaller rivers as well. The rivers in the north Bengal are filled by gravels & boulders.

Table 7.14 summarizes the potential riverbed mineral deposits of the district. Sand mining can be developed on cluster approach with restricted usage of Machinery's for lifting of sands. Development of river bed material with huge boulders also requires usage of machinery's to increase more production in turn revenue.

Table No. 7.14: Resources of Potential Riverbed Mineral

Boulder (Mcum)	Pebbles/Gravel (Mcum)	Sand/White sand (Mcum)	Total Mineable, Mineral Potential (Mcum)
19.506	29.259	48.765	97.53

Based on satellite imagery study and field investigation, potential zones for riverbed deposits for each river of the district have been identified and the details of the zones are provided in Table 7.15.

Table No.7.15: Potential Zone of Riverbed Mineral

Sl. No.	Rivers or Streams	Location of potential zones						Area within prohibited zone as per rule 3 of WBMMC Rules, 2016 in sqm
		Administrative Block	Mouza	JL No.	Zone	Co-ordinates		
						Latitude	Longitude	
1	ANGABASHA	MADARIHAT	Sarugaon	4	1	26.78629	89.10018	363056.1849
						26.74555	89.09764	
2	MURTI	MADARIHAT	Garochira Bandapani	13	2	26.72943	89.109	172283.3819
						26.77305	89.13848	
3	PAGLI	MADARIHAT	Dalmore T.G.	15	3	26.75901	89.17079	102265.2906
						26.73787	89.16963	
		MADARIHAT	Birpara T. G.	9	4	26.72042	89.1644	30084.53171
						26.71161	89.16197	
4	BANGRI	MADARIHAT	Hantapara T.G.	28	5	26.76909	89.25213	76744.25347
						26.75071	89.2646	

Sl. No.	Rivers or Streams	Location of potential zones						Area within prohibited zone as per rule 3 of
		Administrative Block	Mouza	JL No.	Zone	Co-ordinates		
5	TITLI	MADARIHAT	Hantapara T.G.	28	6	26.78683	89.25707	349126.9236
						26.75031	89.27549	
6	TORSA	KALCHINI	Mechiya Busty	25	7	26.73701	89.32391	3281093.232
						26.85858	89.37041	
		KALCHINI	Pradhanpara	9,25	8	26.72444	89.3239	1455759.288
			Mechiya Busty			26.63851	89.33797	
		ALIPURDUAR 1	PurbaKathalbari	7,22,18	9	26.63852	89.34184	751798.5393
			Patlakhawa					
			Paschim Simlabari			26.50646	89.32457	
		ALIPURDUAR 1	Silbarihat	19	10	26.4981	89.32196	49557.22471
						26.48738	89.31969	
7	KALJANI	KALCHINI	Chuapara T.G.	33,34	11	26.83486	89.44159	2628021.784
			Chuapara			26.69326	89.40971	
		KALCHINI	Chuapara T.G.	33	12	26.80268	89.47735	76390.67764
						26.79418	89.46689	
		ALIPURDUAR 1	Chuapara T.G.	33	13	26.79308	89.46731	421467.9152
						26.77072	89.44489	
		KALCHINI	PurbaSatali,	15,9	14	26.68376	89.40597	194965.9262
			Uttar Mendabari			26.61357	89.4256	
		KALCHINI	Uttar Paitkapara	38	15	26.60474	89.42405	57672.49311
						26.55675	89.41536	
		ALIPURDUAR 1	Uttar Chakoakheti,	36,35,22	16	26.55527	89.41408	218548.0285
			Nathoartari,					
			Paschim Simlabari			26.48836	89.51977	
		ALIPURDUAR 1	Paschim Simlabari	22	17	26.47339	89.52519	34109.1964
						26.47472	89.53677	
		ALIPURDUAR 2	Paschim Simlabari	22	18	26.46603	89.5453	94155.41578
						26.41462	89.54862	

Sl. No.	Rivers or Streams	Location of potential zones						Area within prohibited zone as per rule 3 of
		Administrative Block	Mouza	JL No.	Zone	Co-ordinates		
8	JAYANTI	KUMARGRAM	Dangi	109	19	26.72146	89.60814	222504.7607
						26.6876	89.62887	
		KALCHINI	Dangi	109	20	26.68759	89.62951	140896.5407
						26.65836	89.64581	
		ALIPURDUAR 2	Dangi, Turturi	1,09,144	21	26.61961	89.67523	101351.7426
						26.58758	89.67959	
9	DHOLWA	ALIPURDUAR 2	Raidak Tea Garden	10	22	26.52595	89.72701	7989.742714
						26.52365	89.72404	
		KUMARGRAM	Bakla	126	23	26.51344	89.72378	6072.712653
						26.51015	89.72164	
10	RAIDAK 1	KUMARGRAM	Bakla,	1,26,125	24	26.51027	89.72102	16245.85907
			Chhipra			26.50566	89.7071	
11	RAIDAK 2	KUMARGRAM	Amarpur	30,29,28,40,37,41,43,44,20,22,21,49,50,20	25	26.70159	89.77239	4708727.147
			Joydevpur					
			Dhantali					
			Paglarhat					
			Kumargram					
			Chengmari					
			Hemaguri					
			Barodaldali			26.47818	89.78769	
			Chotodaldali					
			Barodalsali					
			Gachhimari					
			Barobisha					
			PurbaChakchaka					
			PurbaNararthali					
		KUMARGRAM	Paschim Chakchaka	19	26	26.46107	89.78513	32272.59821
						26.46863	89.78192	
12	SANKOSH	KUMARGRAM	PurbaSalbari	48,53	27	26.61363	89.8614	435391.6018
			Volka			26.4628	89.85928	

Sl. No.	Rivers or Streams	Location of potential zones						Area within prohibited zone as per rule 3 of
		Administrative Block	Mouza	JL No.	Zone	Co-ordinates		
		KUMARGRAM	Volka	53	28	26.4362	89.8488	13054.95355
						26.41173	89.84962	
13	TITLI	MADARIHAT	-	-	29	26.78185	89.21139	0
						26.77752	89.21017	
14	GOBORJYOTI	KALCHINI	-	-	30	26.83822	89.40787	0
						26.83211	89.41123	

NO MINING ZONE:

As per the Enforcement & Monitoring Guidelines for Sand Mining (EMGSM) 2020 the restricted zone for mining is a distance from the bank is ¼th of river width and not be less than 7.5 meters. Also, there is a no mining zone up to a distance of 1 kilometre (1 km) from major bridges and highways on both sides, or five times (5x) of the span (x) of a bridge/public civil structure (including water intake points) on up-stream side and ten times (10x) the span of such bridge on down-stream side, subjected to a minimum of 250 meters on the upstream side and 500 meters on the downstream side.

No mining zone has been marked for an area up to a width of 100 meters from the active edge of embankments. Also, the concave side of the rive is marked as no mining zone, as mining is this area will affect the course of river in future and will erode the river bank. A representative map of no mining zone shown on River Bangri of Alipurduar district is given below.

Table No.7.16: No mining zone in the district

Sl.No	Rivers or Streams	Administrative Block	No Mining Zone (in Sq.m.)
1	ANGABARSHA	MADARIHAT	633495.18
2	MURTI	MADARIHAT	632560.27
3	PAGLI	MADARIHAT	687648.01
4	BANGRI	MADARIHAT	217085.62
5	TITLI	MADARIHAT	744409.41
6	Torsa	KALCHINI	4736852.52
		ALIPURDUAR 1	801355.76
7	KALJANI	KALCHINI	2957050.88
		ALIPURDUAR 1	674125.14
		ALIPURDUAR 2	94155.42

Sl.No	Rivers or Streams	Administrative Block	No Mining Zone (in Sq.m.)
8	JAYANTI	KUMARGRAM	295015.36
		KALCHINI	210862.32
		ALIPURDUAR 2	229412.55
9	DHOLWA	ALIPURDUAR 2	7989.74
		KUMARGRAM	6072.71
10	RAIDAK 1	KUMARGRAM	16245.86
11	RAIDAK 2	KUMARGRAM	4740999.75
12	SANKOSH	KUMARGRAM	448446.56
13	TITLI	MADARIHAT	0
14	GOBORJYOTI	KALCHINI	0

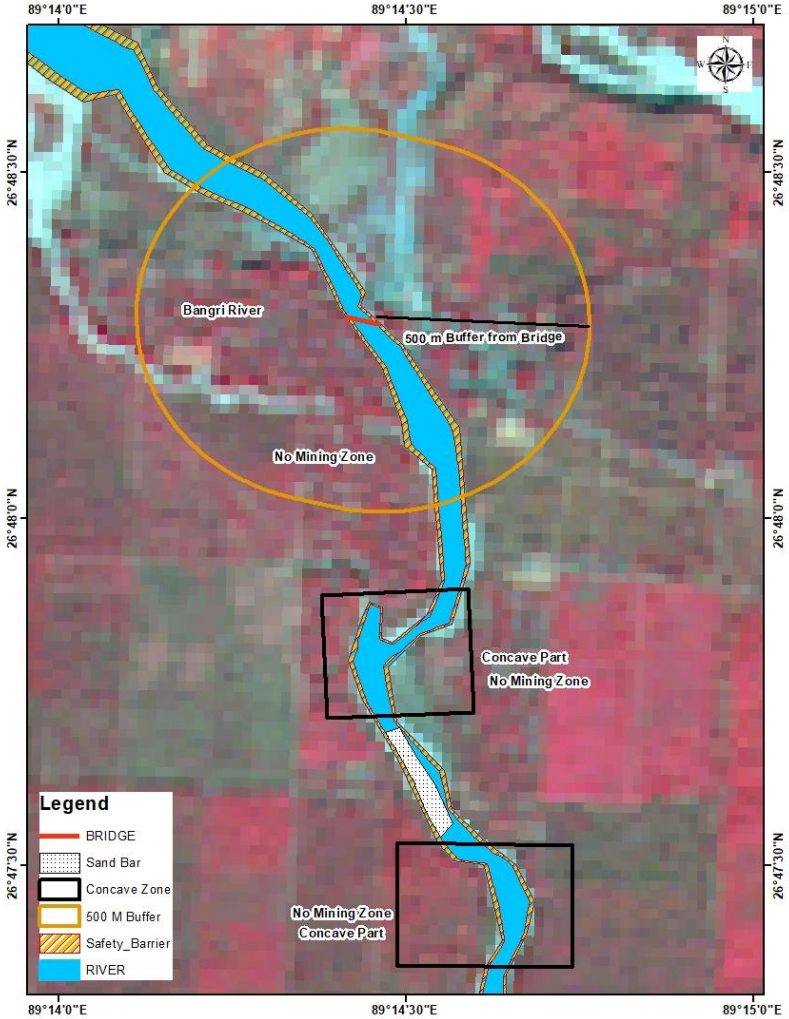


Figure No. 7.9: A representative map showing no-mining zone demarcated on Bangri River

B) In-situ Minerals:

I. Mineral Potential

Dolomite:

The Buxa formation has been rendered famous because of its thick dolomite beds. There are two dolomite bands in the area. The lower one is about 38 m in thickness, extending for a distance of 1.2 km from south of Mahakal (26°44':89°36') hill across the Jayanti River to the east of Mechia khola where it becomes 7 m thick and then pinches out. This is dark grey in colour, highly jointed and cherty in appearance. In the Jayanti River and Mechiak hola sections, the lower dolomite band about against the Gondwanas and is overlain by a quartzite bed.

The upper dolomite, economically the more important band, extends in crescent like fashion from Jayanti River in the west to Sakhe (26°44': 89°44') in the east. The total length of the band is about 11 km with maximum width of 2.8 km. The quartzite which rests on the lower dolomite band is overlain by the upper dolomite. The upper dolomite band in the Jayanti River section is 600 m thick. Here the upper dolomite contains an interlude of 200m thick pyritous phyllite. The general trend of the beds is NW-SE with a northeasterly dip of 50° to 60°.

In the Mechia khola section, the upper dolomite crops out at about 600 m level and are 575 m wide. This portion of dolomite is represented in this area between Mechia khola and Phaskhoa nalas. In Phaskhoa nala, the width of dolomite is 575 m. The general trend of the beds in this nala section is NE-SW with northwestward dip varying between 30° and 40° Further eastwards, the dolomite is greatly diminished in width.

(Source: Ghosh and Ghosh; Progress Report for the Field Season 1979-80, GSI)

II. Mineral Occurrence:

Dolomite: Dolomites are observed in the riverbed of Jayanti in Alipurduar district.



Figure No. 7.10: Figure showing dolomite river bed deposit of Jayanti River

Calcareous Tufa:
The streams dissolve calcium carbonate while flowing through the dolomite beds and these are deposited on valley floors, rocks, tree trunks etc. This is a common feature in the area and the occurrences arc mostly superficial.

Stalactites and Stalagmites:
Stalactites and stalagmites are quite common in this area and locally known as 'Mahakal', a place, of worship for the local people. Excellent deposits have been observed along the banks of Jayanti River and Phaskhoa nala section.

Steatite: Steatite has been reported from Lepchakha Buxa in Alipurduar district.

Table No. 7.17: In-situ Minerals Occurrences

Name of mineral	Name of associated minerals, if any	Host rock of mineralization	Area of mineralization	Depth of mineralization	Whether virgin or partially excavated	Name of land (whether free for mining/forest/agricultural	Mineral reserve (approximate) mentioning grade	Location of potential mineralized zones				Area within prohibited zone as per rule 3(7) of WBMMC Rules, 2016	Infrastructure available near the mineralized zone
								Administrative Block	Mouza	Plot No.s	Co-ordinates		
1	2	3	4	5	6	7	8	9				10	11
Dolomite	Nil	Quartzite	Jainti Area	Lower dolomite band of 38m and Upper band of 600m	Partially excavated	Forest	238029 thousandstonnes as on 1.4.2015 as per IBM	Mahakal (26°44' :89°36') hill to Sakhe (26°44': 89°44') in the east;Kumargram block				No	Well connected by metalled road and railway in Jainti

8. Overview of mining activity in the district:

a. General overview:

The district is not very rich in mineral resources andthere are no large mines in the district. However, collection of sand, Soil, Brick Earth and gravels from the river-bed of the hilly terrain are the minor mineral sources. These materials are primarily utilized for construction purpose. As per the present practice, mining is done by manual method with tools and tackles. One shift working is practiced.

b. List of existing mining leases of the districts (location, area, period for each minor mineral)

Table No. 8.1: Details of mining leases of the districts

ID	Block	Mouza	JL No	River	Road	Plot No	Area in Hectares	Latitude	Longitude	Bidder Name	Date of Issuance of Environmental Clearance (E.C.)	Date of Execution of Lease Deed	Lease Agreement Start Date (date of effect)	Lease Agreement Expiry Date	Quantum of Sand Extraction permissible as per Mining Plan (tonnes)	Reasons for non-execution of lease deed
1192/SB2021	KALCHINI	PURBA SATALI	15	Kaljani	Kachha Road	1626,1628,1630,1632,1636	1.56	26° 40' 26.69''N	89° 24' 23.20''E	CHANDAN SARKAR	02-12-2016	23-12-2016	23-12-2016	22-Dec-21	26919.826	
1521/SB2021	ALIPURDUAR-II	DAKSHIN PANIALGURI, PUTIMARI	60, 75	Cheko	Kachha Road	691, 687, 688, 673,689, 690 2720, 2723, 2724, 2714, 2733	1.25	26° 30' 7.00''N	89° 34' 36.00''E						0	EC Awaiting
1276/SB2021	KUMARGRAM	MADHYA HALDIBARI	38	Sankosh	Kachha Road	1567	1.21	26° 37' 2.42''N	89° 51' 34.24''E	JAMI AKHTAR SEIKH	19-12-2016	11-01-2017	11-01-2017	10-Jan-22	15683.376	
1517/SB2021	ALIPURDUAR-II	KOHINOOR	120	Turturi	Kachha Road	101, 130, 129, 128, 133, 134, 136, 213, 217, 216, 219, 224, 225, 231, 233	4.65	26° 34' 59.00''N	89° 41' 33.00''E						0	EC Awaiting
1518/SB2	ALIPURDUA	DANGI	109	Turturi	Kachha Road	845, 846, 847, 1296	3.24	26° 35' 36.00''N	89° 40' 54.00''E						0	EC Awaiting



ID	Block	Mouza	JL No	River	Road	Plot No	Area in Hectares	Latitude	Longitude	Bidder Name	Date of Issuance of Environmental Clearance (E.C.)	Date of Execution of Lease Deed	Lease Agreement Start Date (date of effect)	Lease Agreement Expiry Date	Quantum of Sand Extraction permissible as per Mining Plan (tonnes)	Reasons for non-execution of lease deed
021	R-II															
1522/SB2021	ALIPURDUAR-I	BIRPARA	45	Kaljani	Kachha Road	4717	0.4	26° 29' 8.00''N	89° 31' 37.00''E						0	EC Awaiting
1524/SB2021	ALIPURDUAR-I	DAKSHIN PAITKAPARA	33	Kaljani	Kachha Road	507, 508, 509, 511, 512	1.78	26° 31' 18.00''N	89° 25' 41.00''E						0	EC Awaiting
1525/SB2021	ALIPURDUAR-I	ALIPURDUAR	50	Kaljani	Kachha Road	4739, 4961	0.66	26° 29' 12.00''N	89° 31' 46.00''E						0	EC Awaiting
1146/SB2021	KALCHINI	Torsha TG	24	Goborjyoti	Kachha Road	259	2.43	26° 49' 5.17''N	89° 22' 14.90''E	UTTAM THAPA	02-12-2016	23-12-2016	23-12-2016	22-Dec-21	23518.404	
1189/SB2021	KALCHINI	Chuapara	34	Pana	Kachha Road	379	1.21	26° 44' 32.13''N	89° 25' 14.08''E	ABHIJIT SAHA	02-12-2016	26-12-2016	26-12-2016	25-Dec-21	11759.202	
1362/SB2021	ALIPURDUAR-I	PASCHIM SIMLABARI	22	Shil Torsha	Kachha Road	113, 114, 115, 158, 159	2.73	26° 32' 33.29''N	89° 20' 36.07''E	Smt SIKHA DEY	02-12-2016	30-12-2016	30-12-2016	29-Dec-21	26531.644	
1221/SB2021	KALCHINI	MECHIYA BUSTY	25	Torsha	Kachha Road	1	1.62	26° 50' 52.65''N	89° 22' 4.96''E	UTTAM THAPA	10-03-2017	20-03-2017	15-03-2017	14-Mar-22	11759.202	
1206/SB2021	KALCHINI	Torsha TG	24	Goborjyoti	Kachha Road	911/949	2.43	26° 50' 10.65''N	89° 24' 36.06''E						0	EC Awaiting
1259/SB2021	KUMARGRAM	RAIDAK TG	10	Dhowla	Kachha Road	1	1.21	26° 38' 23.34''N	89° 44' 27.96''E	BISWAJIT RAKSHIT	10-03-2017	05-09-2017	05-09-2017	04-Sep-22	14127.486	
1267/SB2021	KUMARGRAM	VOLKA	53	Sankosh	Kachha Road	1061	1.21	26° 28' 7.14''N	89° 51' 50.47''E	BUDHEN ROY	19-12-2016	23-12-2016	23-12-2016	22-Dec-21	15683.376	
1301/SB2021	KUMARGRAM	PASCHIM CHAKCHAKA	19	Raidak-II	Kachha Road	1242,1243,1244,1245	2.83	26° 28' 14.46''N	89° 47' 9.23''E						0	EC Awaiting
1305/SB2021	KUMARGRAM	PURBA CHAKCHAKA	50	Raidak-II	Kachha Road	3/65,4/66,4/85,5	3.04	26° 28' 36.27''N	89° 47' 18.43''E						0	EC Awaiting



ID	Block	Mouza	JL No	River	Road	Plot No	Area in Hectares	Latitude	Longitude	Bidder Name	Date of Issuance of Environmental Clearance (E.C.)	Date of Execution of Lease Deed	Lease Agreement Start Date (date of effect)	Lease Agreement Expiry Date	Quantum of Sand Extraction permissible as per Mining Plan (tonnes)	Reasons for non-execution of lease deed
1318/SB2021	KUMARGRAM	PURBA CHAKCHAKA	50	Raidak-II	Kachha Road	25,25/68	1.21	26° 28' 41.79''N	89° 47' 17.24''E	LAXMAN SAHA	19-12-2016	11-01-2017	11-01-2017	10-Jan-22	15683.376	
1322/SB2021	KUMARGRAM	BAROBISA	49	Raidak-II	Kachha Road	99,100,101,102	2.02	26° 29' 28.48''N	89° 48' 4.43''E	PRATAP CHANDRA ROY	19-12-2016	26-12-2016	26-12-2016	25-Dec-21	15683.376	
1324/SB2021	MADARIHAT	Sarugaon	4	Khanavarti	Kachha Road	211	4.49	26° 43' 59.85''N	89° 5' 56.53''E	SOHEL RAHAMAN	02-12-2016	29-12-2016	28-12-2016	27-Dec-21	43635.385	
1310/SB2021	KUMARGRAM	PURBA CHAKCHAKA	50	Raidak-II	Kachha Road	30,72,73,89,90	1.21	26° 28' 36.30''N	89° 47' 18.39''E	KESHAB SARKAR	19-12-2016	26-12-2016	26-12-2016	25-Dec-21	15683.376	
1313/SB2021	MADARIHAT	Makrapara TG	14	Pagli	Kachha Road	227	4.51	26° 48' 6.76''N	89° 11' 0.07''E	Mrs MAHAFUJA BANU	02-12-2016	14-12-2017	14-12-2017	13-Dec-22	43829.752	
1286/SB2021	KUMARGRAM	PASCHIM CHAKCHAKA	19	Raidak-II	Kachha Road	1277,1278	1	26° 28' 13.04''N	89° 46' 51.88''E	SWAPAN SARKAR	19-12-2016	03-01-2017	02-01-2017	01-Jan-22	12961.468	
1347/SB2021	ALIPURDUAR-I	PATLAKHAWA	18	Shil Torsha	Kachha Road	16,17	1.42	26° 30' 51.43''N	89° 20' 2.44''E	MAJIBUL RAHAMAN	02-12-2016	11-01-2017	22-12-2016	21-Dec-21	13703.156	
1338/SB2021	MADARIHAT	Hantapara TG	28	Titi	Kachha Road	704	4.452	26° 45' 14.46''N	89° 15' 38.05''E	HARILAL CHHETRI	02-12-2016	28-12-2016	28-12-2016	27-Dec-21	39262.128	
1353/SB2021	ALIPURDUAR-I	PRADHAN PARA	09	Torsa	Kachha Road	34	2.04	26° 36' 18.15''N	89° 17' 23.37''E	NITYA RANJAN DEY	02-12-2016	23-12-2016	23-12-2016	22-Dec-21	19437.101	
1361/SB2021	MADARIHAT	Hantapara TG	28	Titi	Kachha Road	704	4.04	26° 45' 36.26''N	89° 15' 26.93''E	HARILAL CHHETRI	10-03-2017	04-07-2017	04-07-2017	03-Jul-22	43266.988	
1350/SB2021	MADARIHAT	Hantapara TG	28	Titi	Kachha Road	704	4.04	26° 45' 54.70''N	89° 15' 13.72''E	RAM SHARMA	02-12-2016	28-12-2016	28-12-2016	27-Dec-21	39262.128	
1364/SB2021	MADARIHAT	Hantapara TG	28	Bangri	Kachha Road	557	4.04	26° 44' 54.27''N	89° 16' 7.44''E	NARAYAN SHARMA	02-12-2016	16-01-2017	16-01-2017	15-Jan-22	39262.128	
1371	ALIPU	PASCHIM	22	Shil	Kachha	65	0.89	26° 31'	89° 20'	Smt	02-12-2016	27-12-2016	26-12-2016	25-Dec-	8649.51	



ID	Block	Mouza	JL No	River	Road	Plot No	Area in Hectares	Latitude	Longitude	Bidder Name	Date of Issuance of Environmental Clearance (E.C.)	Date of Execution of Lease Deed	Lease Agreement Start Date (date of effect)	Lease Agreement Expiry Date	Quantum of Sand Extraction permissible as per Mining Plan (tonnes)	Reasons for non-execution of lease deed
/SB2021	RDUAR-I	SIMLABARI		Torsha	Road			44.78''N	34.50''E	SIKHA DEY				21		
1414/SB2021	ALIPURDUAR-I	PASCHIM SIMLABARI	22	Shil Torsha	Kachha Road	107	1.42	26° 31' 47.70''N	89° 20' 42.27''E	Smt SIKHA DEY	02-12-2016	30-12-2016	26-12-2016	25-Dec-21	13800.342	
1419/SB2021	ALIPURDUAR-I	PATLAKHAWA	18	Shil Torsha	Kachha Road	46,47,55,56	2.1	26° 31' 30.13''N	89° 20' 27.09''E	Smt SIKHA DEY	02-12-2016	30-12-2016	30-12-2016	29-Dec-21	20408.956	
1424/SB2021	ALIPURDUAR-I	PURBA KANTHALBARI	07	Shil Torsha	Kachha Road	3017, 3018	1.82	26° 30' 34.64''N	89° 19' 53.97''E						0	EC Awaiting
1425/SB2021	MADARIHAT	Garochira Bandapani	13	Murti	Kachha Road	27	4.97	26° 48' 37.67''N	89° 10' 45.02''E	MAHAFUJA BANU	02-12-2016	12-12-2017	12-12-2017	11-Dec-22	48300.193	
1430/SB2021	MADARIHAT	Garochira Bandapani	13	Murti	Kachha Road	27	4.97	26° 48' 40.24''N	89° 10' 35.64''E						0	EC Awaiting
1436/SB2021	ALIPURDUAR-I	PRADHAN PARA	09	Torsha	Kachha Road	20, 24	4.98	26° 36' 37.30''N	89° 17' 22.69''E	SAMAR KARJI	02-12-2016	20-03-2017	20-03-2017	19-Mar-22	48398.383	
1439/SB2021	MADARIHAT	Hantapara TG	28	Bangri	Kachha Road	557	8.9	26° 44' 39.10''N	89° 16' 28.60''E						0	EC Awaiting
1447/SB2021	ALIPURDUAR-I	MADHYA PAITKAPARA	37	Kaljani	Kachha Road	01,02,03	2.61	26° 32' 29.94''N	89° 24' 53.41''E	ATINDRA DAS	02-12-2016	27-12-2016	27-12-2016	26-Dec-21	25365.417	
1453/SB2021	ALIPURDUAR-I	NATHOARTARI	35	Kaljani	Kachha Road	6,8,9,15,17,20,21,26	2.02	26° 31' 55.87''N	89° 25' 13.21''E	DWIPIKA BARMAN	02-12-2016	11-01-2017	11-01-2017	10-Jan-22	19631.472	
1464/SB2021	ALIPURDUAR-I	NATHOARTARI	35	Kaljani	Kachha Road	6, 10, 11, 12, 39, 42	1.57	26° 31' 56.48''N	89° 25' 17.59''E	CHITTA RANJAN DEY	02-12-2017	02-01-2017	30-12-2016	29-Dec-21	15258.128	
1519/SB2021	KUMARGRAM	PAGLARHAT	40	Raidak-II	Kachha Road	01	1.21	26° 36' 30.89''N	89° 48' 46.46''E	DILIP KUMAR DAS	22-09-2017	16-10-2017	16-10-2017	15-Oct-22	36740.213	
1905/SB2021	KALCHINI	NIMTI DOMOHINI	12	Kaljani	Kachha Road	221	1.21	26° 37' 8.04''N	89° 25' 28.25''E	KRISHNA GOPAL AGARWA	10-03-2017	16-05-2017	16-05-2017	15-May-22	11759.202	



ID	Block	Mouza	JL No	River	Road	Plot No	Area in Hectares	Latitude	Longitude	Bidder Name	Date of Issuance of Environmental Clearance (E.C.)	Date of Execution of Lease Deed	Lease Agreement Start Date (date of effect)	Lease Agreement Expiry Date	Quantum of Sand Extraction permissible as per Mining Plan (tonnes)	Reasons for non-execution of lease deed
										L AND SONS						
1511/SB2021	KUMARGRAM	CHENGMARI	41	Raidak-II	No Approach Road	212	1.21	26° 34' 19.88''N	89° 49' 6.31''E	RAJ KUMAR BARMAN	19-12-2016	10-01-2017	10-01-2017	09-Jan-22	15683.376	
1513/SB2021	KUMARGRAM	KUMARGRAM	37	Raidak-II	Kachha Road	1697	1.21	26° 36' 33.81''N	89° 48' 42.31''E	RAJ KUMAR BARMAN	19-12-2016	30-05-2017	31-01-2017	30-Jan-22	15683.376	
1514/SB2021	ALIPURDUAR-II	BANIYADABRI	104	Jayanti	Kachha Road	272,274,275,277,278, 282, 286, 288, 289, 290, 293, 296, 801, 797, 677, 643, 582, 581, 580, 550, 531, 524, 499, 494, 485, 480, 477	11.61	26° 34' 11.00''N	89° 39' 53.00''E						0	EC Awaiting
1515/SB2021	ALIPURDUAR-II	BANIYAGAON	103	Jayanti	Kachha Road	1140	2.13	26° 32' 53.00''N	89° 39' 38.00''E						0	EC Awaiting
1516/SB2021	ALIPURDUAR-II	SIMLABARI	111	Turturi	Kachha Road	719, 717, 777, 698, 680	2.21	26° 36' 32.00''N	89° 41' 57.00''E						0	EC Awaiting
1537/SB2021	KUMARGRAM	HEMAGURI	43	Raidak-II	Kachha Road	204	1.21	26° 33' 23.34''N	89° 48' 41.16''E	PRAFULLA ADHIKARY	19-12-2016	25-01-2017	25-01-2017	24-Jan-22	15683.376	
1538/SB2021	KUMARGRAM	CHHOTO DALDALI	22	Raidak-II	Kachha Road	210	1.21	26° 31' 50.70''N	89° 47' 47.13''E	SUKUMAR BISWAS	19-12-2016	27-12-2016	26-12-2016	25-Dec-21	15683.376	
1550/SB2021	ALIPURDUAR-I	PATLAKHAWA	18	Shil Torsha	Kachha Road	516, 517,518, 519, 520, 521, 523, 526, 527	3.13	26° 31' 31.00''N	89° 20' 20.00''E						0	EC Awaiting
1534/SB2021	KUMARGRAM	BORO DALDALI	44	Raidak-II	Kachha Road	73	1.21	26° 32' 32.37''N	89° 48' 15.45''E	GOKUL ROY	10-03-2017	20-04-2017	12-04-2017	11-Apr-22	36740.213	
1554/SB2021	KUMARGRAM	JOYDEBPUR	29	Raidak-II	Kachha Road	117, 118	1.21	26° 37' 43.64''N	89° 48' 35.72''E	SWAPAN RAY	10-03-2017	25-05-2017	25-05-2017	24-May-22	36740.213	



ID	Block	Mouza	JL No	River	Road	Plot No	Area in Hectares	Latitude	Longitude	Bidder Name	Date of Issuance of Environmental Clearance (E.C.)	Date of Execution of Lease Deed	Lease Agreement Start Date (date of effect)	Lease Agreement Expiry Date	Quantum of Sand Extraction permissible as per Mining Plan (tonnes)	Reasons for non-execution of lease deed
1556/SB2021	KUMARGRAM	GACHIMARI	21	Raidak-II	Kachha Road	772, 773, 906, 907	3.64	26° 30' 10.89''N	89° 48' 0.90''E	SUBHRAJIT SARKAR	19-12-2016	19-05-2017	19-05-2017	18-May-22	47179.743	
1567/SB2021	KUMARGRAM	DHANTALI	28	Raidak-II	Kachha Road	5	1.21	26° 36' 32.75''N	89° 47' 31.36''E	ATIAR RAHAMAN					0	EC Awaiting
1570/SB2021	ALIPURDUAR-II	CHHOTO CHOWKIRBOS	124	Raidak-I	Kachha Road	430, 447, 448, 449, 750, 752	1.21	26° 30' 20.00''N	89° 41' 52.27''E	SAJJAN KUMAR AGARWALA					0	EC Awaiting
1631/SB2021	ALIPURDUAR-II	DANGI	109	Turturi	Kachha Road	463, 466, 467, 468, 473, 1247, 1264, 1268, 1259, 1270, 1271, 1272, 1273, 1277	4.98	26° 35' 19.61''N	89° 40' 46.54''E	PRANAB GHOSH	02-12-2016	24-01-2017	24-01-2017	23-Jan-22	48398.383	
1647/SB2021	ALIPURDUAR-II	DAMSIBAD	112	Turturi	Kachha Road	1012, 1013, 1015, 1016,1017,1033	4.42	26° 36' 54.38''N	89° 42' 2.60''E	SUDHANGSHU NEOGI	02-12-2016	06-03-2017	06-03-2017	05-Mar-22	42985.15	
1636/SB2021	ALIPURDUAR-II	TURTURI	114	Turturi	Kachha Road	261	3.04	26° 38' 10.18''N	89° 42' 23.95''E	BISWAJIT RAKSHIT	02-12-2016	24-03-2017	24-03-2017	23-Mar-22	29447.209	
1218/SB2021	KALCHINI	SATALI NAKADALA	8	Kaljani	Kachha Road	2173, 2176,2177,2181	1.15	26° 38' 17.95''N	89° 24' 45.58''E	KRISHNA GOPAL AGARWAL AND SONS	10-03-2017	16-05-2017	16-05-2017	15-May-22	11078.917	
1723/SB2021	KUMARGRAM	CHENGMARI	41	Raidak-II	Kachha Road	2, 4	3.24	26° 35' 3.38''N	89° 48' 40.91''E	BRIJESH KUMAR SHARMA	19-12-2016	29-12-2016	29-12-2016	28-Dec-21	41865.541	
1262/SB2021	KUMARGRAM	TURTURI TG	07	Dhowla	Kachha Road	537	2.23	26° 38' 43.38''N	89° 44' 55.22''E	SANJIT KUMAR PALIT	10-03-2017	30-03-2017	30-03-2017	29-Mar-22	14650.725	
1744/SB2021	KALCHINI	CHUAPARA	34	Pana	Kachha Road	379	1.21	26° 44' 22.87''N	89° 25' 5.42''E	ABHIJIT SAHA	02-12-2016	26-12-2016	26-12-2016	25-Dec-21	11759.202	
1213/SB2021	KALCHINI	NIMATIDOMOHANI	12	Kaljani	Kachha Road	53, 79	1.21	26° 36' 27.91''N	89° 25' 31.91''E	KRISHNA GOPAL AGARWA	10-03-2017	16-05-2017	16-05-2017	15-May-22	11759.202	



ID	Block	Mouza	JL No	River	Road	Plot No	Area in Hectares	Latitude	Longitude	Bidder Name	Date of Issuance of Environmental Clearance (E.C.)	Date of Execution of Lease Deed	Lease Agreement Start Date (date of effect)	Lease Agreement Expiry Date	Quantum of Sand Extraction permissible as per Mining Plan (tonnes)	Reasons for non-execution of lease deed
										L AND SONS						
1856/SB2021	MADARIHAT	LANKAPARA TG, MAKRAPARA TG	30, 14	Pagli	Kachha Road	554, 621 182	7.28	26° 43' 41.40''N	89° 6' 32.50''E						0	EC Awaiting
1857/SB2021	MADARIHAT	DHEKLAPARA, JOYBIRPARA TG, NANGDALA TG	3, 11, 10	Dimdima	Kachha Road	384 207, 215 22, 24, 25	10	26° 43' 41.40''N	89° 6' 32.50''E						0	EC Awaiting
1216/SB2021	KALCHINI	NIMATIDOMOHANI	12	Kaljani	Kachha Road	54,31/723	3.24	26° 36' 37.74''N	89° 25' 36.08''E						0	EC Awaiting
1284/SB2021	MADARIHAT	Birpara TG	9	Sukna	Kachha Road	602	4.05	26° 42' 36.88''N	89° 9' 37.91''E	SOHEL RAHAMAN	10-03-2017	08-03-2018	08-03-2018	07-Mar-23	35589.333	
1911/SB2021	KUMARGRAM	PASCHIM CHAKCHAKA	19	Raidak-II	Kachha Road	365, 375	2.83	26° 28' 17.85''N	89° 47' 4.05''E	LT ATIN DAS	10-03-2017	16-03-2017	16-03-2017	15-Mar-22	92974.225	
1916/SB2021	ALIPURDUAR-I	PURBA KATHALBARI	7	Shil Torsha	Kachha Road	3017, 3018	1.82	26° 30' 34.64''N	89° 19' 53.97''E	JAYNAL MIA	02-12-2016	25-01-2017	25-01-2017	24-Jan-22	17687.762	
1197/SB2021	KALCHINI	Torsha TG	24	Jogikhola	Kachha Road	485	0.4	26° 50' 26.54''N	89° 23' 58.80''E						0	EC Awaiting
1200/SB2021	KALCHINI	NIMATI JHORA TG	11	Kaljani	Kachha Road	16,20	2.23	26° 35' 48.96''N	89° 25' 40.63''E						0	EC Awaiting
1271/SB2021	KUMARGRAM	PURBA SALBARI	48	Sankosh	Kachha Road	2323	1.21	26° 28' 7.83''N	89° 51' 50.42''E	Smt KULATI ROY	19-12-2016	09-06-2017	09-06-2017	08-Jun-22	15683.376	
1280/SB2021	KUMARGRAM	PURBA SALBARI	48	Sankosh	Kachha Road	378	1.21	26° 30' 12.13''N	89° 51' 19.12''E	PRADIP DAS	10-03-2017	07-06-2017	07-06-2017	06-Jun-22	36331.989	
1294	KUM	PASCHIM	19	Raidak	Kachha	1239,1240,1241	2.02	26° 28'	89° 47'	SUNIL	10-03-2017	20-03-2017	20-03-	19-Mar	39189.561	

ID	Block	Mouza	JL No	River	Road	Plot No	Area in Hectares	Latitude	Longitude	Bidder Name	Date of Issuance of Environmental Clearance (E.C.)	Date of Execution of Lease Deed	Lease Agreement Start Date (date of effect)	Lease Agreement Expiry Date	Quantum of Sand Extraction permissible as per Mining Plan (tonnes)	Reasons for non-execution of lease deed
/SB2021	ARGRAM	CHAKCHAKA		-II	Road			15.68''N	9.25''E	BARMAN			2017	-22		
1297/SB2021	MADARIHAT	Birpara TG	9	Sukna	Kachha Road	602	3.662	26° 42' 41.64''N	89° 9' 7.77''E	MAHAFUJA BANU	10-03-2017	08-03-2018	08-03-2018	07-Mar-23	35589.333	
1314/SB2021	KUMARGRAM	PURBA CHAKCHAKA	50	Raidak-II	Kachha Road	75	3.04	26° 28' 40.73''N	89° 47' 25.14''E	SUBHRAJIT SARKAR	19-12-2016	27-12-2017	26-12-2016	25-Dec-21	15683.376	
1320/SB2021	MADARIHAT	Dalmore TG	15	Pagli	Kachha Road	1118	4.97	26° 45' 26.43''N	89° 10' 12.67''E	SOHEL RAHAMAN	02-12-2016	28-12-2016	28-12-2016	27-Dec-21	48300.193	
1326/SB2021	KUMARGRAM	AMARPUR	30	Raidak-II	Kachha Road	22	1.21	26° 38' 24.74''N	89° 47' 41.76''E	NITYA NANDA DAS	19-12-2016	10-01-2017	10-12-2017	09-Dec-22	15683.376	
1340/SB2021	ALIPURDUAR-I	SILBARIHAT	19	Shil Torsha	Kachha Road	27, 59	1.65	26° 2' 43.00''N	89° 18' 59.36''E	MAHADEB DEY	02-12-2016	23-12-2016	22-12-2016	21-Dec-21	16035.608	
1366/SB2021	MADARIHAT	Hantapara TG	28	Bangri	Kachha Road	557	3.7	26° 45' 2.27''N	89° 15' 55.50''E	PRAKASH SANYASI	02-12-2016	19-04-2017	04-04-2017	03-Apr-22	0	EC Awaiting
1429/SB2021	ALIPURDUAR-I	PATLAKHAWA	18	Shil Torsha	Kachha Road	495, 496, 497	1.61	26° 31' 34.59''N	89° 20' 32.63''E	KRISHNA CHANDRA DEY	02-12-2016	23-12-2016	22-12-2016	21-Dec-21	15646.867	
1460/SB2021	ALIPURDUAR-I	UTTAR PAITKAPARA	38	Kaljani	Kachha Road	1259, 1260,1261, 1698, 1699, 1700	2.91	26° 33' 41.02''N	89° 25' 2.23''E	PRABIR KUMAR BALA	10-03-2017	24-03-2017	24-03-2017	23-Mar-22	28183.797	
1463/SB2021	ALIPURDUAR-I	UTTAR CHAKOAKHETI	36	Kaljani	Kachha Road	1400, 1401, 1427/1510, 1723, 1724, 1839	1.38	26° 32' 13.22''N	89° 24' 52.80''E	SUJANTA EKKA CHIK BARAIK	02-12-2016	23-12-2016	22-12-2016	21-Dec-21	13411.6	
1509/SB2021	KUMARGRAM	GACHIMARI	21	Raidak-II	Kachha Road	731, 732	1.21	26° 30' 11.02''N	89° 47' 47.74''E	SUBHRAJIT SARKAR	19-12-2016	23-12-2016	22-12-2016	21-Dec-21	15683.376	
1512/SB2021	KUMARGRAM	BORO DALDALI	44	Raidak-II	Kachha Road	739, 740, 741, 742, 743	1.21	26° 31' 24.13''N	89° 48' 11.18''E	BIDYUT SARKAR	19-12-2016	11-01-2017	11-01-2017	10-Jan-22	12961.468	
1520	KUM	BORO	44	Raidak	Kachha	03	1.21	26° 32'	89° 48'	MANIRA	10-03-2017	22-09-2017	22-09-2017	21-Sep-	35515.539	

ID	Block	Mouza	JL No	River	Road	Plot No	Area in Hectares	Latitude	Longitude	Bidder Name	Date of Issuance of Environmental Clearance (E.C.)	Date of Execution of Lease Deed	Lease Agreement Start Date (date of effect)	Lease Agreement Expiry Date	Quantum of Sand Extraction permissible as per Mining Plan (tonnes)	Reasons for non-execution of lease deed
/SB2021	ARGRAM	DALDALI		-II	Road			35.41''N	6.85''E	M DAS				22		
1523/SB2021	ALIPURDUAR-I	BAIRIGURI	47	Gorom	Kachha Road	63, 64	1.3	26° 33' 11.00''N	89° 31' 27.00''E						0	EC Awaiting
1540/SB2021	KUMARGRAM	PURBA NARARTHALI	20	Raidak-II	Kachha Road	1126, 1127, 1128	1.21	26° 29' 25.15''N	89° 47' 49.00''E	SWAPAN RAY	10-03-2017	07-04-2017	07-04-2017	06-Apr-22	24085.25	
1569/SB2021	ALIPURDUAR-II	CHHIPRA	125	Raidak-I	Kachha Road	336, 337, 355	2.82	26° 30' 18.37''N	89° 42' 18.10''E	PRANAB GHOSH					0	EC Awaiting
1592/SB2021	KUMARGRAM	HEMAGURI	43	Raidak-II	Kachha Road	274	1.21	26° 33' 35.61''N	89° 48' 30.78''E	RAJ KUMAR BARMAN	19-12-2016	07-03-2018	06-03-2018	05-Mar-23	15683.376	
1638/SB2021	ALIPURDUAR-II	BAKLA	126	Raidak-I	Kachha Road	1332, 1333, 1334	1.46	26° 30' 30.36''N	89° 42' 20.31''E	RATNADIP ROY	26-02-2018	08-03-2018	08-03-2018	07-Mar-23	12582.508	
1729/SB2021	KUMARGRAM	DHANTALI	28	Raidak-II	Kachha Road	105	1.05	26° 36' 12.95''N	89° 47' 43.71''E	BHUPESH DAS	19-12-2016	02-02-2017	02-02-2017	01-Feb-22	13609.541	
1904/SB2021	KALCHINI	CHUAPARA TG	33	Pana	Kachha Road	02	1.21	26° 44' 30.38''N	89° 25' 18.62''E	SUBHAYAMOY CHATTOPADHAYA	02-12-2016	14-08-2017	14-08-2017	13-Aug-22	11759.202	
1907/SB2021	MADARIHAT	GAROCHIRA BANDAPANI	13	Murti	Kachha Road	27	4.98	26° 48' 37.67''N	89° 10' 45.02''E	S A MEHEBUB QUADERI	02-12-2016	16-08-2017	16-08-2017	15-Aug-22	48300.193	

Table No. 8.2: Details of production of sand and other minerals

Sl. No	Name of Applicants	Mineral Commodity	Name of Block	Name of River	Name of P.S.	Mouza	J.L. No.	Plot No.	Latitude	Longitude	Area (Hector)	Estimated Reserve (Cum)	Date of approval	Lease term period	
														Lease Granting date	Lease expiry date
1	Sri Sukumar Biswas	Sand	Kumargram	Raidak-II	Kumargram	Chotodaldali	22	(R S.) 210	26° 32' 02.49" N	89° 47' 43.02" E	1.210	102060.00	01.12.2016	27.12.2016	26.12.2021
2	Sri Rajkumar Barman	Sand	Kumargram	Raidak-II	Kumargram	Chengmari	41	(R S.) 212	26° 34' 46.92" N	89° 48' 22.09" E	1.210	113400.00	01.12.2016	10.01.2017	09.01.2022
3	Sri Rajkumar Barman	Sand	Kumargram	Raidak-II	Kumargram	Kumargram	37	(R S.) 1697	26° 36' 17.27" N	89° 48' 44.66" E	1.210	105840.00	01.12.2016	30.05.2017	29.05.2022
4	Sri Prafulla Adhikari	Sand	Kumargram	Raidak-II	Kumargram	Hemaguri	43	(R S.) 204	26° 32' 50.75" N	89° 48' 00.71" E	1.210	117545.40	01.12.2016	25.01.2017	24.01.2022
5	Sri Keshab Sarkar	Sand	Kumargram	Raidak-II	Kumargram	PurbaChakchaka	50	(R S.) 30, 72, 73, 89, 90	26° 28' 49.87" N	89° 47' 06.98" E	1.210	115920.00	01.12.2016	26.12.2016	25.12.2021
6	Sri Rajkumar Barman	Sand	Kumargram	Raidak-II	Kumargram	Hemaguri	43	(R S.) 274	26° 32' 52.95" N	89° 48' 38.71" E	1.210	112140.00	01.12.2016	07.03.2018	06.03.2023
7	Sri Bhupesh Das	Sand	Kumargram	Raidak-II	Kumargram	Dhantali	28	(R S.) 105	26° 36' 12.78" N	89° 47' 39.42" E	1.050	94500.00	01.12.2016	02.02.2017	01.02.2022
8	Jamai Akhtar Shekh	Sand	Kumargram	Sankosh	Kumargram	Madhya Haldibari	38	(R S.) 1567	26° 36' 59.99" N	89° 51' 38.35" E	1.210	53008.20	01.12.2016	11.01.2017	10.01.2022
9	Sri Nityananda Das	Sand	Kumargram	Raidak-II	Kumargram	Amarpur	30	(R S.) 22	26° 37' 42.86" N	89° 48' 26.21" E	1.210	64260.00	01.12.2016	10.01.2017	09.01.2022
10	Sri Bidyut Sarkar	Sand	Kumargram	Raidak-II	Kumargram	Barodalsali	44	(R S.) 739, 740, 741, 742, 743	26° 31' 24.13" N	89° 48' 09.40" E	1.210	117180.00	01.12.2016	11.01.2017	10.01.2022
11	Sri Brijesh Kumar Sharma	Sand	Kumargram	Raidak-II	Kumargram	Chengmari	41	(R S.) 2(P), 4	26° 34' 55.70" N	89° 48' 40.36" E	3.23	318780.00	02.12.2016	29.12.2016	28.12.2021
12	Sri Pranob Ghosh	Sand	Alipurduar-II	Turturi	Alipurduar-II	Dangi	109	1247, 1264, 1268, 1259, 1270, 1271, 1272, 1273, 1277	26° 35' 19.59" N 26° 35' 07.62" N	89° 40' 58.21" E 89° 40' 44.75" E	4.98	89628.65	11.11.2016	24.01.2017	23.01.2022
13	SmtDwipika Barman	Sand	Alipurduar-I	Kaljani	Alipurduar-I	Nathoartari	35	6, 8, 9, 15, 17, 20, 21, 26	26° 32' 01.24" N 26° 31' 55.47" N	89° 25' 13.21" E 89° 25' 06.73" E	2.02	36356.10	11.11.2016	11.01.2017	10.01.2022



Sl. No	Name of Applicants	Mineral Commodity	Name of Block	Name of River	Name of P.S.	Mouza	J.L. No.	Plot No.	Latitude	Longitude	Area (Hector)	Estimated Reserve (Cum)	Date of approval	Lease term period	
														Lease Granting date	Lease expiry date
14	Sri Subhamay Chattopadhya	Sand	Kalchini	Pana	Kalchini	Chuapara T.G.	33	2	26° 44' 30.38" N 26° 44' 28.11" N	89° 25' 25.36" E 89° 25' 16.08" E	1.21	21777.20	11.11.2016	14.09.2017	13.09.2022
15	S. A. MehebubQuaderi	Sand	Madarihat	Murti	Madarihat	GarochiraBandapani	13	27	26° 48' 40.24" N 26° 48' 00.59" N	89° 10' 40.60" E 89° 10' 09.41" E	4.97	89448.66	11.11.2016	16.08.2017	15.08.2022
16	Mahafuja Banu	Sand	Madarihat	Pagli	Madarihat	Makrapara T.G.	14	227	26° 48' 24.04" N 26° 48' 06.26" N	89° 11' 25.96" E 89° 11' 00.07" E	4.51	81169.71	11.11.2016	14.12.2017	13.12.2022
17	SohelRahaman	Sand	Madarihat	Sukna	Madarihat	Birpara T. G.	9	602	26° 42' 36.88" N 26° 42' 19.39" N	89° 09' 42.20" E 89° 09' 34.56" E	4.04	72710.75	11.11.2016	29.12.2016	28.12.2021
18	SmtSikha Dey	Sand	Alipurduar-I	Torsa	Alipurduar-I	Patlakhawa	22	46, 47, 55, 56	26° 31' 30.13" N 26° 31' 05.75' N	89° 20' 27.09" E 89° 20' 00.37" E	1.42	25557.29	11.11.2016	30.12.2016	29.12.2021
19	SmtSikha Dey	Sand	Alipurduar-I	Torsa	Alipurduar-I	Paschim Simlabari	18	107	26° 31' 47.70" N 26° 31' 41.95' N	89° 20' 44.91" E 89° 20' 39.87" E	2.10	37795.21	11.11.2016	30.12.2016	29.12.2021
20	Sri Chitta Ranjan Dery	Sand	Alipurduar-I	Kaljani	Alipurduar-I	Nathoartari	35	6, 10, 11, 12, 39, 46	26° 32' 00.14" N 26° 31' 54.84' N	89° 25' 17.59" E 89° 25' 12.35" E	1.57	28257.00	11.11.2016	02.01.2017	01.01.2022
21	Sri Samar Karji	Sand	Alipurduar	Torsa	Alipurduar	Pradhanpara	9	20, 24	26° 36' 37.30" N 26° 36' 28.73' N	89° 17' 34.44" E 89° 17' 22.69" E	4.98	89628.64	11.11.2016	20.03.2017	19.03.2022
22	MajibulRahaman	Sand	Alipurduar-I	Torsa	Alipurduar-I	Patlakhawa	18	16, 17	26° 30' 51.43" N 26° 30' 43.21' N	89° 20' 04.49" E 89° 19' 59.56" E	1.410	25376.43	11.11.2016	11.01.2017	10.01.2022
23	Jaynal Mia	Sand	Alipurduar-I	Torsa	Alipurduar-I	PurbaKathalbari	7	3017, 3018	26° 30' 34.68" N 26° 30' 25.37' N	89° 19' 66.44" E 89° 19' 52.32' E	1.820	32755.85	11.11.2016	25.01.2017	24.01.2022
24	Sri Biswajit Rakshit	Sand	Alipurduar-I	Turturi	Alipurduar-I	Turturi	144	697	26° 38' 10.18" N 26° 37' 36.08' N	89° 42' 42.59" E 89° 42' 05.70' E	3.03	54533.08	11.11.2016	22.03.2017	21.03.2022
25	SohelRahaman	Sand	Madarihat	Khanavarti	Madarihat	Sarugaon	4	211(P)	26° 44' 22.71" N 26° 43' 58.65' N	89° 06' 01.05" E 89° 05' 55.49' E	4.49	80809.75	11.11.2016	29.12.2016	28.12.2021



Sl. No	Name of Applicants	Mineral Commodity	Name of Block	Name of River	Name of P.S.	Mouza	J.L. No.	Plot No.	Latitude	Longitude	Area (Hector)	Estimated Reserve (Cum)	Date of approval	Lease term period	
														Lease Granting date	Lease expiry date
26	Sri Mahadeb Dey	Sand	Alipurduar-I	Torsa	Alipurduar-I	Silbarihat	19	27, 59	26° 29' 57.19" N 26° 29' 42.55' N	89° 19' 08.82" E 89° 18' 59.36' E	1.650	29696.20	11.11.2016	23.12.2016	22.12.2021
27	Uttam Thapa	Sand	Kalchini	Goborjyoti	Kalchini	Torsa T.G.	34	259	26° 49' 05.58" N 26° 49' 01.29' N	89° 22' 27.86" E 89° 22' 12.93' E	2.42	43554.48	11.11.2016	23.12.2016	22.12.2021
28	SmtSnigdhaBaulSahani	Sand	Kalchini	Kaljani	Kalchini	Uttar Mendabari	9	1003, 1014, 1015	26° 37' 57.85" N 26° 37' 41.65' N	89° 24' 52.20" E 89° 24' 49.22' E	2.04	34829.90	11.11.2016	12.03.2013	11.03.2018
29	Smt Ram Sharma	Sand	Madarihat	Titi	Madarihat	Hantapara T. G.	28	704	26° 45' 64.70" N 26° 44' 57.34" N	89° 16' 00.79" E 89° 15' 10.65" E	4.04	72710.75	11.11.2016	28.12.2016	27.12.2021
30	Smt Abhijit Saha	Sand	Kalchini	Pana	Kalchini	Chuapara	34	379	26° 44' 27.08" N 26° 44' 22.10" N	89° 25' 10.75" E 89° 25' 05.42" E	1.210	21777.24	11.11.2016	26.12.2016	25.12.2021
31	Smt Prakash Sanyasi	Sand	Madarihat	Bangri	Madarihat	Hantapara T. G.	28	557	26° 45' 02.27" N 26° 44' 40.39" N	89° 16' 15.95" E 89° 15' 54.72" E	3.70	66591.56	11.11.2016	04.04.2017	03.04.2022
32	Sri Nitya Ranjan Dey	Sand	Alipurduar-I	Torsa	Alipurduar-I	Pradhanpara	7	34	26° 36' 18.15" N 26° 36' 14.98" N	89° 17' 27.10" E 89° 17' 22.56" E	2.00	35995.44	11.11.2016	23.12.2016	22.12.2021
33	Sri Chandan Sarkar	Sand	Kalchini	Kaljani	Kalchini	PurbaSatali	15	1626, 1628, 1630, 1632, 1636	26° 40' 26.47" N 26° 40' 18.22" N	89° 24' 20.80" E 89° 24' 13.30" E	2.77	49853.68	11.11.2016	23.12.2016	22.12.2021
34	Sri Narayan Sharma	Sand	Madarihat	Bangri	Madarihat	Hantapara T. G.	28	557	26° 45' 02.27" N 26° 44' 40.39" N	89° 16' 15.95" E 89° 15' 54.72" E	4.04	72710.78	11.11.2016	16.01.2017	15.01.2022
35	SmtSujanta Ekka ChikBaraik	Sand	Alipurduar-I	Kaljani	Alipurduar-I	Uttar Chakoakheti	36	1723, 1724, 1839	26° 32' 13.22" N 26° 32' 06.82" N	89° 24' 54.95" E 89° 24' 50.08" E	1.38	24837.37	11.11.2016	23.12.2016	22.12.2021
36	SmtSikha Dey	Sand	Alipurduar-I	Torsa	Alipurduar-I	Paschim Simlabari	22	65	26° 31' 44.78" N 26° 31' 37.38" N	89° 24' 54.95" E 89° 24' 50.08" E	0.89	16018.30	11.11.2016	27.12.2016	26.12.2021
37	SmtSikha Dey	Sand	Alipurduar-I	Torsa	Alipurduar-I	Paschim Simlabari	22	113, 114, 115, 158, 159	26° 32' 33.84" N 26° 32' 33.36" N	89° 20' 21.12" E 89° 20' 36.07" E	2.73	49134.79	11.11.2016	30.12.2016	29.12.2021



Sl. No	Name of Applicants	Mineral Commodity	Name of Block	Name of River	Name of P.S.	Mouza	J.L. No.	Plot No.	Latitude	Longitude	Area (Hector)	Estimated Reserve (Cum)	Date of approval	Lease term period	
														Lease Granting date	Lease expiry date
38	Mahafuja Banu	Sand	Madarihat	Murti	Madarihat	GarochiraBandapani	13	27	26° 48' 40.24" N 26° 48' 00.59" N	89° 10' 45.02" E 89° 10' 09.41" E	4.97	89448.66	10.11.2016	12.12.2017	11.12.2022
39	Sri HarilalChetri	Sand	Madarihat	Titi	Madarihat	Hantapara T. G.	28	704	26° 45' 56.07" N 26° 44' 57.34" N	89° 16' 00.79" E 89° 15' 10.65" E	4.04	72710.78	10.11.2016	28.12.2016	27.12.2021
40	Sri Krishna Chandra Dey	Sand	Alipurduar-I	Torsa	Alipurduar-I	Patlakhawa	18	495, 496, 497	26° 31' 36.01" N 26° 31' 31.16" N	89° 20' 32.63" E 89° 20' 25.44" E	1.60	48293.87	10.11.2016	23.12.2016	22.12.2021
41	SohelRahaman	Sand	Madarihat	Pagli	Madarihat	Dalmore T. G.	15	1118	26° 45' 26.55" N 26° 44' 54.30" N	89° 10' 14.20" E 89° 10' 10.22" E	4.47	89448.66	10.11.2016	28.12.2016	27.12.2021
42	Sri Laxman Saha	Sand	Kumargram	Raidak-II	Kumargram	PurbaChakchaka	50	(RS.) 25, 25/68	26° 29' 01.57" N	89° 47' 52.23" E	1.21	104580.00	25.11.2016	11.01.2017	10.01.2022
43	Sri Subhrajit Sarkar	Sand	Kumargram	Raidak-II	Kumargram	PurbaChakchaka	50	(RS.) 75	26° 29' 04.60" N	89° 47' 59.00" E	1.21	88200.00	25.11.2016	26.12.2016	25.12.2021
44	Sri Subhrajit Sarkar	Sand	Kumargram	Raidak-II	Kumargram	Gachhimari	21	(RS.) 731, 732	26° 30' 24.50" N	89° 47' 49.60" E	1.21	98700.00	25.11.2016	23.12.2016	22.12.2021
45	Sri Pratap Chandra Roy	Sand	Kumargram	Raidak-II	Kumargram	Barobisha	49	(RS.) 99, 100, 101, 102	26° 29' 21.20" N	89° 48' 03.90" E	1.21	91350.00	25.11.2016	26.12.2016	25.12.2021
46	Smt. Kulati Ray	Sand	Kumargram	Sankosh	Kumargram	PurbaSalbari	48	2323(P)	26° 28' 52.10" N	89° 51' 24.10" E	1.21	109078.00	25.11.2016	09.06.2017	08.06.2022
47	Sri Laxman Saha	Sand	Kumargram	Raidak-II	Kumargram	PurbaChakchaka	50	(RS.) 3/65, 4/85, 5, 4/66	26° 28' 39.00" N	89° 47' 17.80" E	3.04	297360.00	25.11.2016	08.03.2018	07.03.2023
48	Sri bBudhen Roy	Sand	Kumargram	Sankosh	Kumargram	Volka	53	(RS.) 1061	26° 27' 58.40" N	89° 51' 51.50" E	1.21	94500.00	25.11.2016	23.12.2016	22.12.2021
49	Sri Swapan Sarkar	Sand	Kumargram	Raidak-II	Kumargram	Paschim Chakchaka	19	1277, 1278	26° 28' 09.26" N	89° 46' 58.69" E	0.995	91980.00	26.11.2016	03.01.2017	02.01.2022
50	Sri Subhrajit Sarkar	Sand	Kumargram	Raidak-II	Kumargram	Gachhimari	21	(RS.) 772, 773, 906, 907	26° 30' 24.56" N	89° 47' 49.53" E	3.64	367920.00	25.11.2016	19.05.2017	18.05.2022
51	Sri Pradip Das	Sand & Gravel	Kumargram	Sankosh	Kumargram	PurbaSalbari	48	(RS.) 378	26° 30' 18.31" N	89° 51' 24.93" E	1.21	112140.00	20.01.2017	07.06.2017	06.06.2022

Sl. No	Name of Applicants	Mineral Commodity	Name of Block	Name of River	Name of P.S.	Mouza	J.L. No.	Plot No.	Latitude	Longitude	Area (Hector)	Estimated Reserve (Cum)	Date of approval	Lease term period	
														Lease Granting date	Lease expiry date
52	Sri Atin Das	Sand & Gravel	Kumargram	Raidak-II	Kumargram	Paschim Chakchaka	19	LR 365, 375, 408(RS)	26° 28' 03.05" N	89° 46' 59.40" E	2.83	289800.00	20.01.2017	16.03.2017	15.03.2022
53	Sri Swapan Ray	Sand & Gravel	Kumargram	Raidak-II	Kumargram	PurbaNararthali	20	(RS.) 1126, 1127, 1128	26° 28' 57.94" N	89° 47' 20.98" E	1.21	74340.00	20.01.2017	07.04.2017	06.04.2022
54	Sri Gokul Roy	Sand & Gravel	Kumargram	Raidak-II	Kumargram	Barodaldali	20	(RS.) 73	26° 32' 43.56" N	89° 48' 19.12" E	1.21	113400.00	20.01.2017	20.04.2017	19.04.2017
55	Sri Swapan Ray	Sand & Gravel	Kumargram	Raidak-II	Kumargram	Joydevpur	29	117, 118	26° 37' 22.00" N	89° 48' 38.56" E	1.21	113400.00	20.01.2017	25.05.2017	24.05.2022
56	Sri Sunil Barman	Sand & Gravel	Kumargram	Raidak-II	Kumargram	Paschim Chakchaka	19	(RS.) 1239, 1240, 1242	26° 28' 18.78" N	89° 47' 05.93" E	1.21	79254.00	20.01.2017	20.03.2017	19.03.2022
57	Sri Maniram Das	Sand & Gravel	Kumargram	Raidak-II	Kumargram	Barodaldali	44	(RS.) 03	26° 32' 42.14" N	89° 48' 11.79" E	1.21	109620.00	22.02.2017	22.09.2017	21.09.2022
58	Sri Brijesh Kumar Sharma	Sand & Gravel	Kumargram	Raidak-II	Kumargram	Paglarhat	40	1	26° 36' 39.57" N	89° 48' 45.53" E	1.21	113400.00	20.01.2017	EC Granted in favour of Sri Dilip Kr Das as per the order of the D.M& Collector, Alipurduar&DEIAA Alipurduar	
59	Sri Dilip Kr Das	Sand	Alipurduar	Raidak-II	Kumargram	Paglarhat	40	RS-01	26°36'39.57" N	89°48'45.53" E	1.21	113400.00	20.01.2017	16.10.2017	15.10.2022
60	Sri Biswajit Rakshit	Sand	Kumargram	Dhowla	Kumargram	Raidak Tea Garden	10	1	26° 37' 27.33" N	89° 43' 46.27' E	1.21	43605.00	22.02.2017	05.09.2017	04.09.2022
61	Sri Sanjit Kumar Palit	Sand	Alipurduar-I	Dhowla	Kumargram	Turturi Tea Garden	7	537	26° 39' 16.00" N	89° 45' 12.00' E	1.21	45220.00	22.02.2017	30.03.2017	29.03.2022
62	Sri Prabir Kumar Bala	Sand	Madarihat	Kaljani	Alipurduar-I	Uttar Paitkapara	38	1698, 1699, 1700	26° 33' 45.08" N 26° 33' 36.70' N	89° 25' 08.51" E 89° 25' 02.21" E	2.906	52194.45	07.03.2017	24.03.2017	23.03.2022
63	Sri HarilalChetri	Sand	Kalchini	Titi	Madarihat	Hantapara T. G.	28	704	26° 45' 57.34" N 26° 45' 01.72' N	89° 15' 57.43" E 89° 15' 00.79" E	4.452	80127.50	07.03.2017	04.07.2017	03.07.2022
64	Sri Uttam Thapa	Sand	Madarihat	Torsa	Kalchini	Mechiya Busty	25	1	26° 49' 31.73" N 26° 49' 23.13' N	89° 21' 15.70" E 89° 21' 08.38" E	1.214	21777.20	07.03.2017	20.03.2017	19.03.2022

Sl. No	Name of Applicants	Mineral Commodity	Name of Block	Name of River	Name of P.S.	Mouza	J.L. No.	Plot No.	Latitude	Longitude	Area (Hector)	Estimated Reserve (Cum)	Date of approval	Lease term period	
														Lease Granting date	Lease expiry date
65	Mahafuja Banu	Sand	Madarihat	Sukna	Madarihat	Birpara T. G.	9	602	26° 42' 41.86" N 26° 42' 34.28' N	89° 09' 19.37" E 89° 09' 07.77" E	3.662	65909.00	07.03.2017	08.03.2018	07.03.2023
66	Sri Atindra Das	Sand	Alipurduar	Kaljani	Alipurduar	Madhya Paitka para	37	RS 2,3,4(L.R. 1,2,3	26°32'25.40"N	89°24'53.56'E	2.61	-	11.11.2016	27.12.2016	26.12.2016
67	K.G. Agarwal & Sons	Sand	Alipurduar	Kaljani	Kalchini	NimtiDomohani	12	L.R. 53, 79	26°36'27.19" N	89°25'26.33" E	1.21	-	11.11.2016	16.05.2017	15.05.2022
68	K.G. Agarwal & Sons	Sand	Alipurduar	Kaljani	Kalchini	NimtiDomohini	12	LR – 221	26°37'27.6.58" N	89°25'33.13" E	1.21	-	11.11.2016	16.05.2017	15.05.2022
69	K.G. Agarwal & Sons	Sand	Alipurduar	Kaljani	Kalchini	SataliNakadala	8	LR- 2173, 2176, 2177, 2181	26°38'56.08" N	89°24'28.02" E	1.14	-	11.11.2016	16.05.2017	15.05.2022
70	Sri SudhangshuNeogi	Sand	Alipurduar	Turturi	Samuktala	Damsibad	112	RS- 631,632,670, 671,673,674 LR- 1012, 1013, 1015, 1016, 1017, 1033	26°36'51.02" N	89°41'57.26" E	4.423	-	11.11.2016	06.03.2017	05.03.2022
71	Sri Ratnadip Roy	Sand & Gravels	Samuktala	Raidak-I	Samuktala	Bakla	126	1332, 1333, 1334	26° 30' 28.69" N	89° 42' 22.69" E	2.12	106000.00	05.01.2018	08.03.2018	07.03.2023

c. Detail of production of sand and other minerals during last three years

Details of production of last 4 years are furnished in Table 8.3.

Table No.8.3: Detail of production of sand and other minerals during last four years

Sl. No.	Year	Sand in cft	Gravel in cft	Total Production
1	2017-2018	156812900	47498300	204311200
2	2018-2019	30026580	43601600	73628180
3	2019-2020	23465400	38748600	62214000
4	2020-2021	17552900	32096300	49649200

9. Details of revenue generated from mineral sector during last four years:

Revenue generation of last 4 years is furnished in Table 9.1.

Table No.9.1: District revenue generation from mineral sector in Rs.

Year	Royalty/deed rent	Cess	Surface rent	Total
2017-18	123916800	14766595	0	138683395
2018-19	110442270	13224307	0	123666577
2019-20	93321000	11269530	0	104590530
2020-21	74473800	9052195	0	83525995

10. Transport (Railway, road):

Alipurduar is the newly created District of West Bengal. Erstwhile district of Jalpaiguri was bifurcated to create Alipurduar district. It became the 20th district of West Bengal on 25th June, 2014. The district headquarters at Alipurduar situated on the east bank of the Kaljani River on the foot hills of the Himalayas. The town is the gateway to Bhutan and North Eastern States of India.

Alipurduar has a very wide spread road-network covering almost all areas of the district. The Road network of district Alipurduar is well built and several National and State Highways pass through the district. NH-31, NH-31C &NH-31D crosses the district and important locations are connected by SH-12, beside numerous medium, small and minor road networks. All sand ghats are connected by motorable Kutcha roads to the major roads. River bed materials mainly sand, soil, brick earth is mainly transported with the help of trucks or tractors by the kutcha roads which further connect to the major roads.

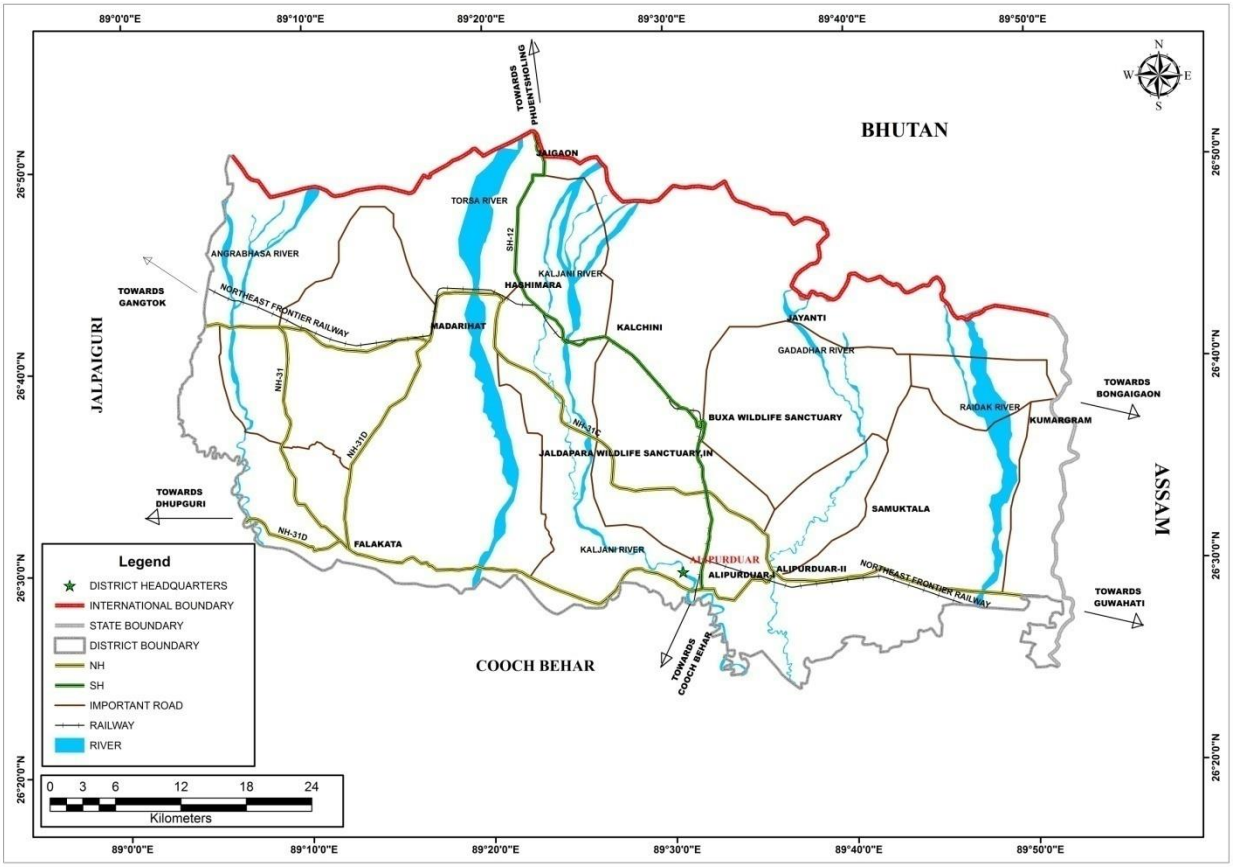
Distance between Kolkata, capital of West Bengal and Alipurduar, District head quarter is about 730 km by road.

The nearest airport is Bagdogra airport (IXB), near Siliguri. The nearest international airport is Netaji Subhas Chandra Bose International Airport at Kolkata.

Hasimara Air Force Station is an Indian Air Force (IAF) base located in Alipurduar district. Hasimara is located strategically near the Indo-Bhutan border. It is also the closest Indian air base to the Chumbi Valley - the tri-junction between the Indian state of Sikkim, Bhutan and the Tibet Autonomous Region.

Alipurduar railway division has at least 710 km of railway track. It is the largest division of the NFR zone. In Alipurduar district there are two major stations, Alipurduar junction(APDJ) and New Alipurduar(NOQ). There are other stations in the district viz. Hasimara Railway Station, Rajabhat khawa, Hamiltongunj etc.

A transportation map of Alipurduar district is furnished as Figure 10.1. A transportation map demarcating approach road to the potential sand blocks from the nearest National Highway/ Sate Highway has been prepared and presented in Figure 10.2.



(Source: National Informatics Centre)

Figure No. 10.1: Transportation map of Alipurduar district

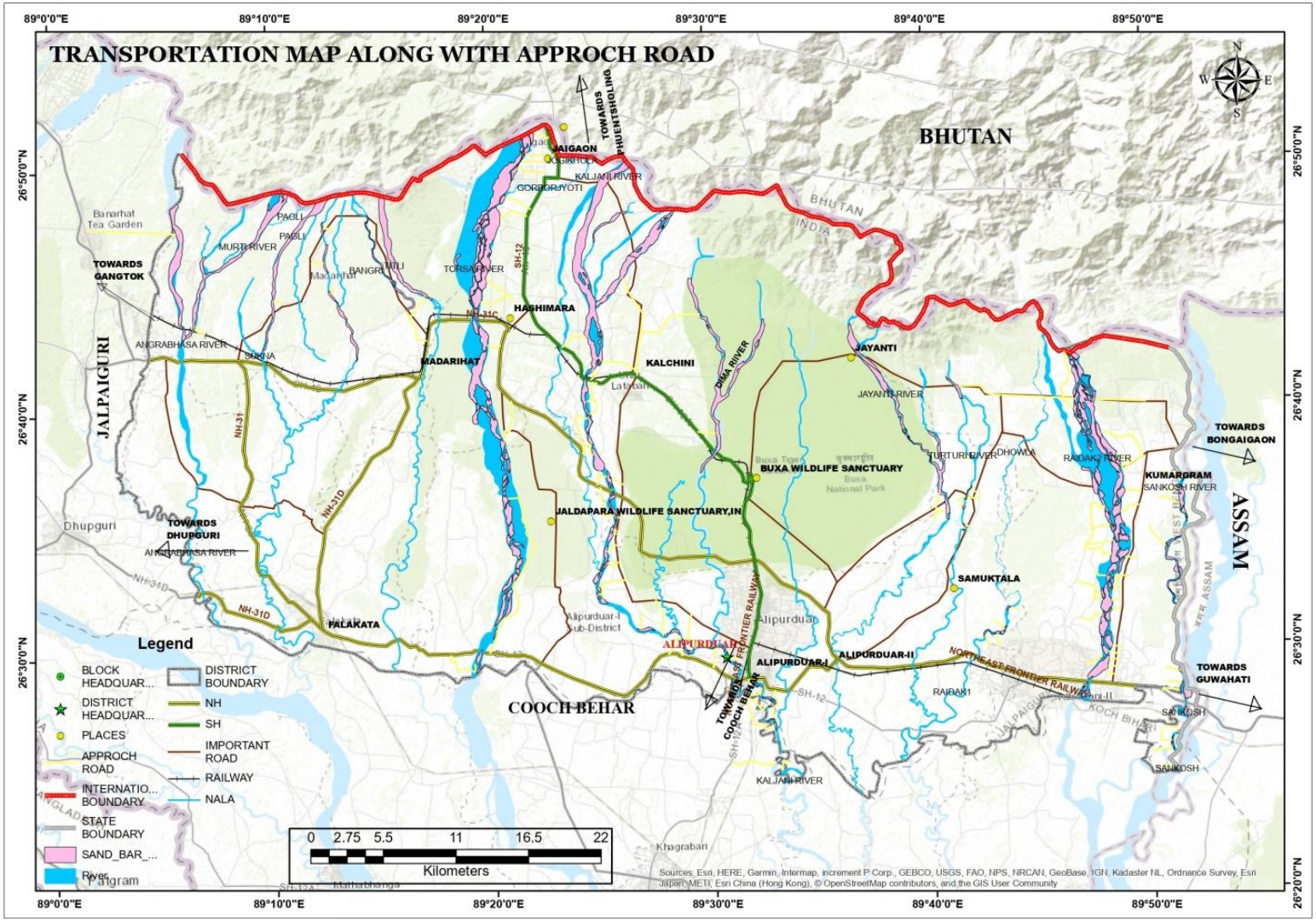


Figure No. 10.2: Map showing approach road to sand blocks of Alipurduar district

11. Remedial measure to mitigate the impact of mining

11.1 Environmental Sensitivity

The Alipurduar area represents a unique geo- environmental setup. As the mountains serve as the source of resources for the population residing in the hills as well as in the plains, the form of environmental degradation is quite extensive particularly the extraction of timber and other forest produces, mining and agriculture are also taken into account. As human population increases in the hills, forests are being depleted for the extension of agricultural lands, introduction of new settlements, roadways etc.

Due to unprecedented growth of population during the last few decades, nature has started reacting sharply to the accumulated human guilt. Soil erosion and its conservation play an important role.

The land use practices play the most important role in determining the stability factors in respect of landslide hazards. Stone quarrying from the slope is another way of human intervention that causes occasional slope failure.

The adverse effect of this unscientific mining is realized in the form of landslide, removal of soil cover, formation of gullies and badlands; siltation of river beds leading to frequent floods, endangering the lives and properties of local inhabitants.

11.2 Sand mining Impact

Another serious environmental problem around the globe in recent years is of Sand and gravel mining. Sand mining is a process of extraction of sand from an open pit, river bed, sea beaches, ocean floor, river banks, deltas and island dunes. The extracted sand could be utilised for various types of manufacturing, such as concrete used in the construction of building and other structures. The sand can also be used as an abrasive. The demand for sand will increase with population growth and urbanization. The high demand of sand has led to unsustainable sand mining process resulting in illegal mining.

All though most jurisdictions have legal limit on the location and volume of sand that can be mined, illegal sand extraction is taking place in many parts of the country due to rapid urbanisation and industrialisation.

Removal or extraction of too much sand from rivers leads to erosion of river banks. Deltas can recede due to sand mining. These destructive effects of sand mining

ultimately results in loss of fertile land and property. It also destabilizes the ground and causes failure of engineering structures.

In-stream mining directly alters the channel geometry and bed elevation. Removing sediment from the channel disrupts the pre-existing balance between sediment supply and transporting capacity, typically inducing incision upstream and downstream of the extraction site. The resultant incision alters the frequency of floodplain inundation along the river courses, lowers valley floor water table and frequently leads to destruction of bridges and channelization structures.

Sand Mining in beaches disturbs the ecosystem of different fauna of the beaches. The sand mining from natural barriers, made up of sand, causes flooding of the natural habitat. The sand mining activity destroys the aesthetic beauty o beaches and river bank and makes the ecosystem unstable. If there are popular tourist destination, tourism potential of such areas will decline.

It can be concluded that there has been little in depth research on the environmental, social and political effects of land use practices and calls for urgent attention by the competent authority.

11.3 Remedial measure

11.3.1 Sustainable Mining Practices:

- The depth of mining in riverbed shall not exceed 3 meter or base flow level whichever is less, provided that where the Joint Inspection Committee certifies about excessive deposit or over accumulation of mineral in certain reaches requiring channelization, it can go above 3 meters.
- Mining shall be done in layers of 1 meter depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers.
- No stream should be diverted for the purpose of sand mining. No natural water course and/ or water resources are obstructed due to mining operations.
- No blasting shall be resorted to in river mining and without permission at any other place.

11.3.2 Monitoring the Mining of Mineral and its Transportation:

- For each mining lease site the access should be controlled in a way that vehicles carrying mineral from that area are tracked and accounted for.

- There should be regular monitoring of the mining activities in the State to ensure effective compliance of stipulated EC conditions and of the provisions under the Minor Mineral Concessions Rules framed by the State Government.

11.3.3 Noise Management:

- Noise arising out of mining and processing shall be abated and controlled at source to keep within permissible limit.
- Restricted sand mining operation has to be carried out between 6 am to 7 pm.

11.3.4 Air Pollution and Dust Management:

- The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly.
- Air pollution due to dust, exhaust emission or fumes during mining and processing phase should be controlled and kept in permissible limits specified under environmental laws.
- The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Wheel washing facility should be installed and used.

11.3.5 Bio-Diversity Protection:

- Restoration of flora affected by mining should be done immediately. Five times the number of trees destroyed by mining to be planted preferably of indigenous species. Each EC holder shall have to undertake plantation of trees over at least 20% of the total area of lease in the same plot or plots utilised for such working.
- No mining lease shall be granted in the forest area without forest clearance in accordance with the provisions of the Forest Conservation Act, 1980 and the rules made there under.
- Protection of natural home of any wild animal shall have to be ensured.
- No felling of tree near quarry is allowed. For mining lease within 10km of the National Park / Sanctuary or in Eco-Sensitive Zone of the Protected Area, recommendation of Standing Committee of National Board of Wild Life (NBWL) have to be obtained as per the Hon'ble Supreme Court order in I.A. No. 460 of 2004.

- Spring sources should not be affected due to mining activities. Necessary protection measures are to be incorporated.

11.3.6 Management of Instability and Erosion:

- Removal, stacking and utilization of top soil should be ensured during mining. Where top soil cannot be used concurrently, it shall be stored separately for future use keeping in view that the bacterial organism should not die and should be spread nearby area.
- The EC should stipulate conditions for adequate steps to check soil erosion and control debris flow etc. by constructing engineering structures
- Use of oversize material to control erosion and movement of sediments
- No overhangs shall be allowed to be formed due to mining and mining shall not be allowed in area where subsidence of rocks is likely to occur due to steep angle of slope.
- No extraction of stone / boulder / sand in landslide prone areas.
- Controlled clearance of riparian vegetation to be undertaken.

11.3.7 Waste Management:

- Site clearance and tidiness is very much needed to have less visual impact of mining.
- Dumping of waste shall be done in earmarked places as approved in Mining Plan.
- Rubbish burial shall not be done in the rivers.

11.3.8 Pollution Prevention:

- Take all possible precautions for the protection of environment and control of pollution.
- Effluent discharge should be kept to the minimum and it should meet the standards prescribed.

11.3.9 Protection of Infrastructure:

- Mining activities shall not be done for mine lease where mining can cause danger to site of flood protection works, places of cultural, religious, historical, and archeological importance.
- For carrying out mining in proximity to any bridge or embankment, appropriate safety zone should be worked out on case-to-case basis, taking



into account the structural parameters, location aspects and flow rate, and no mining should be carried out in the safety zone so worked out.

As per Minor Mineral Concession Rules, 2016 Mining shall not be undertaken in a mining lease located in 300-500 meter of bridge, 300 meter upstream and downstream of water supply / irrigation scheme, 100 meters from the edge of National Highway and railway line, 50 meters from a reservoir, canal or building, 25 meter from the edge of State Highway and 10 meters from the edge of other roads except on special exemption by the Sub-Divisional level Joint Inspection Committee.

12. Suggested reclamation plan for already mined out areas

As per statute all mines/quarries are to be properly reclaimed before final closure of the mine. Reclamation plans should include:

a) A baseline survey of river cross section. The study of cross section is basis for delineating channel form. Cross-sections must be surveyed between two monumented endpoints set on the river banks, and elevations should be referenced based on benchmark set in the area;

b) The proposed mining cross-section data should be plotted over the baseline data to illustrate the vertical extent of the proposed excavation;

c) The cross-section of the replenished bar should be the same as the baseline data. This illustrates that the bar elevation after the bar is replenished will be the same as the bar before extraction;

d) A planimetric map showing the aerial extent of the excavation and extent of the riparian buffers;

e) A planting plan developed by a plant ecologist familiar with the flora of the river for any areas such as roads that need to be restored;

f) Each EC holder shall have to undertake plantation of trees over at least 20% of the total area of the plot or plots of land as subject to such working in accordance with a plan approved by the concerned Divisional Forest Officer holding jurisdiction, provided further the competent authority l.e, The Divisional Forest Officer may fix up norms for plantation of trees in a particular area regarding choice of species, spacing, nos of trees and maintenance etc.;

g) A monitoring plan has to establish.

13. Risk assessment and disaster management plan

Risk analysis is the systematic study of risks encountered during various stages of mining operation. Risk analysis seek to identify the risks involved in mining operations, to understand how and when they arise, and estimate the impact (financial or otherwise) of adverse outcomes. The sand mining operation in the district is mainly done manually.

13.1 Identification of risk due to river sand mining

There is no land degradation due to mining activities as mining is done only on river bed dry surface. There will be no OB or waste generation as the sand is exposed in the river bed and is completely saleable. There will be neither any stacking of soil nor creation of OB dumps. The mining activity will carried out upto a maximum depth of 3m below the surface level. So there is no chance of slope failure, bench failure in the mines. However there are some identified risk in the mining activity which are as follows:

1. Accident during sand loading and transportation
2. Inundation/ Flooding
3. Quick Sand Condition

13.2 Mitigation measures

13.2.1 Measures to prevent accidents during loading and transportation:

- During the loading truck should be brought to a lower level so that the loading operation suits to the ergonomic condition of the workers.
- The workers will be provided with gloves and safety shoes during loading.
- Opening of the side covers of the truck should be done carefully and with warning to prevent injury to the loaders.
- Mining operations will be done during daylight only.
- The truck will be covered with tarpaulin and maintained to prevent any spillage.
- To avoid danger while reversing the trackless vehicles especially at the embankment and tipping points, all areas for reversing of lorries should be made man free as far as possible.
- All transportation within the main working will be carried out directly under the supervision and control of the management.
- Overloading should not be permitted and the maximum permissible speed limit should be ensured.



- There will be regular maintenance of the trucks and the drivers will have valid driving license.

13.2.2 Measures to prevent incidents during Inundation/ Flooding:

To minimize the risk of flooding/ inundation following measures should be under taken:

- Mining will be completely closed during the monsoon months.
- Proper weather information particularly on rain should be kept during the operational period of mines so that precautionary measures will be undertaken.

13.2.3 Measures for mitigation to quick sand condition:

- Quick sand zone and deep water zone will be clearly demarcated and all the mines workers will be made aware of the location.
- Mining will be done strictly as per the approved mining plan.

13.3 Disaster management plan

As the depth of mining will be maximum of 3m below the surface level considering local condition, the risk related to mining activity is much less. The mining operation will be carried out under the supervision of experienced and qualified Mines Manager having Certificate of Competency to manage the mines granted by DGMS. All the provisions of Mines Act 1952, MMR 1961 and Mines Rules 1955 and other laws applicable to mine will strictly be complied. During heavy rainfall and during the monsoon season the mining activities will be closed. Proper coordination with Irrigation Department should be maintained so that at the time of releasing water, if any, from the dam suitable warning/information is given in advance. Special attention and requisite precautions shall be taken while working in areas of geological weakness like existence of slip, fault etc. The mining site will be supplied with first aid facilities and the entire mines worker will have access to that.

14.Conclusions and Recommendations

The District Survey Report for Alipurduar district has been prepared as per Ministry of Environment, Forests & Climate Change (MoEF& CC) guidelines. This report will guide the systematic and scientific mining of major and minor mineral of the district. Report highlighted the district profile with respect to its geographical position, its area of extent, soil characteristic, land use patter, physiography of the district and mineral potentiality.

The Alipurduar district is holding mineral potentiality with respect to major and minor mineral. Minor minerals are mining actively in the state, mainly sand, soil, brick earth, earth and gravel from river beds. Occurrences of dolomite and quartz are also established.

Considering the high concentration of river bed material deposition every year from the uphills of the Himalayan region in the district, a scientific study must be carried out in detail to evaluate the followings:

i. The quantum of sediment load deposited in the major river such as Raidak, Jayanti, Sankosh, Torsa etc. in last 20 years' time period. Historical data from the different government department must be supported the study.
ii. Possibility of mining beyond 3-meter depth to regenerate the fluvial channel to extent possible.
iii. To find the ways and means to increase the carrying capacity of the rivers.
iv. Usage of mining machineries to lift the river bed material wherever the material is conglomerate in nature.
v. Relation between sediment load and flood hazards in the region for last 20 years.

14.1 Conclusion:

1. It has been observed during the preparation of district survey report that Alipurduar district do not have any in-situ minor mineral occurrences as per the till date studies being carried out by various authorities and agencies.
2. The rivers are enriched with gravels and boulders along with sand where the percentage of larger grains (gravels and boulders) are much more in the uphill region while percentage of sand is found to be more towards the plains.
3. The replenishment study has been carried out during the preparation of this DSR after analysing datasets of consecutive calendar years. Both field-based surveys



coupled with satellite imagery study and empirical studies were carried out to determine the rate of replenishment in each river of the district.

4. The determined values of various methods as adopted for replenishment study gives a comparable value and in all cases the values are found to be much more as compared to the capping limit (60%) as suggested in the Enforcement & Monitoring Guidelines for Sand Mining (EMGSM) January 2020, Issued by Ministry of Environment, Forest and Climate Change (MoEF&CC) 2020.
5. Field base study shows variation of replenishment from 97.5 to 99.5% in the district and for theoretical Replenishment study based on mining lease shows variation from 73% to 90% with an average of 82% of replenishment rate in the district.

14.2 Recommendation:

1. The mining lease distribution for the district must be carried out by involving a district level committee constituted with inter-disciplinary members of various departments including irrigation and waterways, DL&LRO, forest, biodiversity, wetland management, SWID or any other relevant department which the district authority may find suitable to include.
2. While recommending for Mining Leases, the District Level Committee should ensure the protection of Biodiversity Zones as recorded by relevant Government Agenesis from time to time.
3. During finalization of mining leases for the district, strict adherence of Supreme Court orders No 1501 dated 03/06/2022 should be followed.
4. Efforts should be given to restrict distribution of mining leases along the confluence zone of the rivers where rich aquatic habitats are reported.
5. Since the state of West Bengal has royalty system in volumetric measurement, specific gravity for sand and gravel has not been determined during this study. However, during the finalization of mining lease if it is found necessary to conduct such test may be initiated by the state government on case-to-case basis.
6. It is recommended to have a periodical review along with primary data collection during pre- and post-monsoon periods to record the seasonal variance of the sedimentation rate on annual basis and update replenishment rate of the district.

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PLATE 1

DRAINAGE MAP OF THE DISTRICT

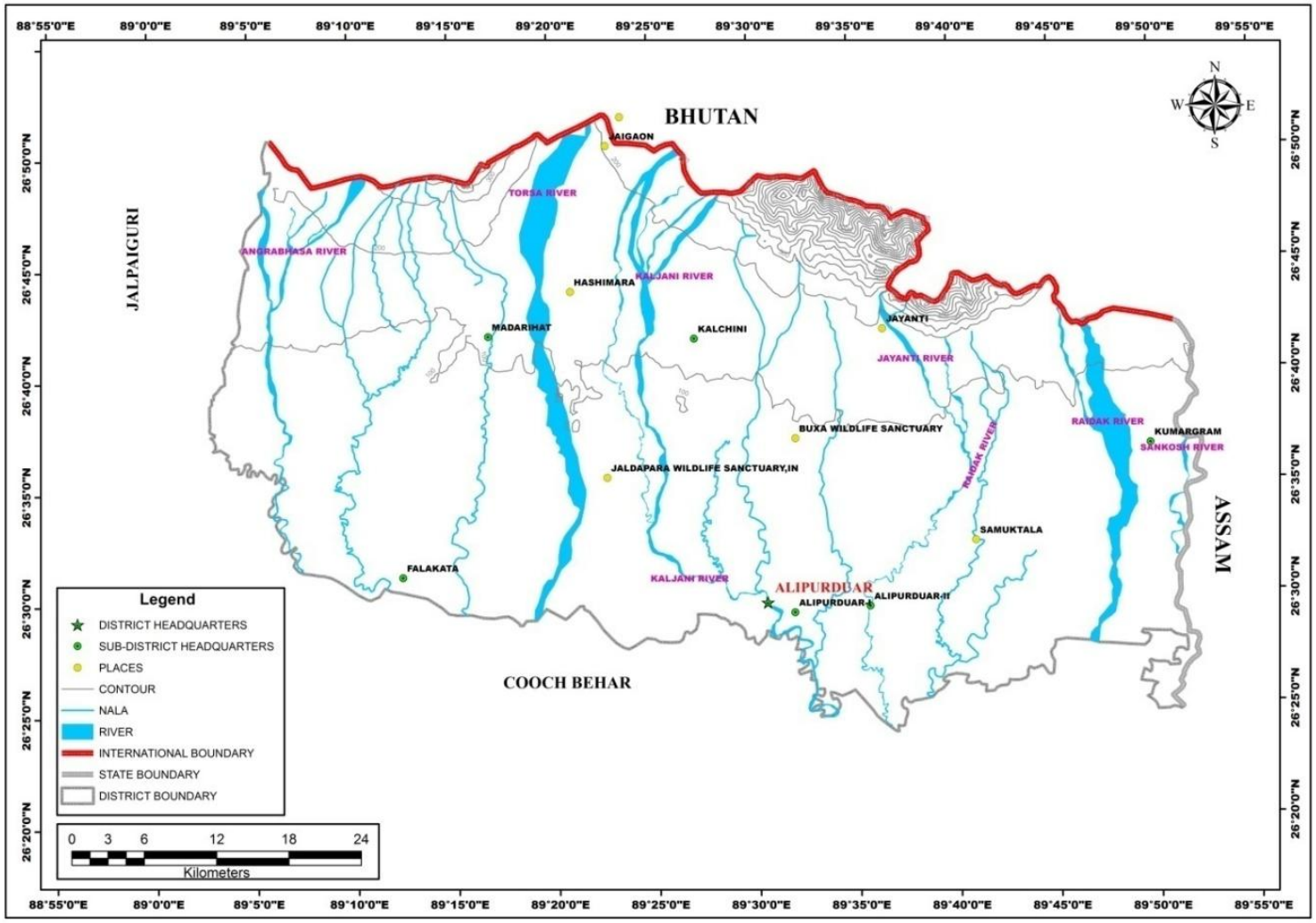
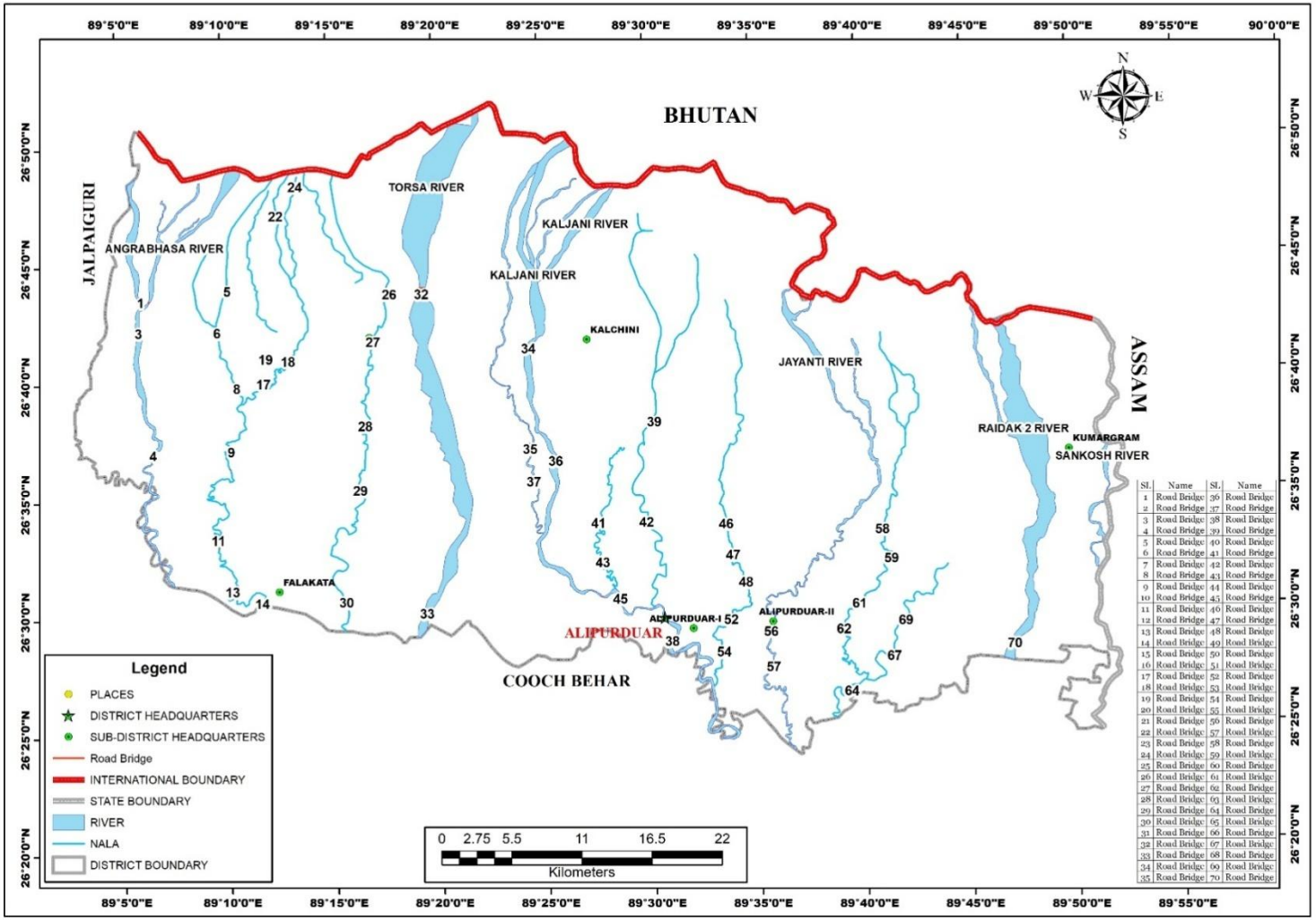


Plate 1A: Drainage Map of the District*(Source: National Informatics Centre -NIC Website, Sept 2020)*



SL.	Name	SL.	Name
1	Road Bridge	36	Road Bridge
2	Road Bridge	37	Road Bridge
3	Road Bridge	38	Road Bridge
4	Road Bridge	39	Road Bridge
5	Road Bridge	40	Road Bridge
6	Road Bridge	41	Road Bridge
7	Road Bridge	42	Road Bridge
8	Road Bridge	43	Road Bridge
9	Road Bridge	44	Road Bridge
10	Road Bridge	45	Road Bridge
11	Road Bridge	46	Road Bridge
12	Road Bridge	47	Road Bridge
13	Road Bridge	48	Road Bridge
14	Road Bridge	49	Road Bridge
15	Road Bridge	50	Road Bridge
16	Road Bridge	51	Road Bridge
17	Road Bridge	52	Road Bridge
18	Road Bridge	53	Road Bridge
19	Road Bridge	54	Road Bridge
20	Road Bridge	55	Road Bridge
21	Road Bridge	56	Road Bridge
22	Road Bridge	57	Road Bridge
23	Road Bridge	58	Road Bridge
24	Road Bridge	59	Road Bridge
25	Road Bridge	60	Road Bridge
26	Road Bridge	61	Road Bridge
27	Road Bridge	62	Road Bridge
28	Road Bridge	63	Road Bridge
29	Road Bridge	64	Road Bridge
30	Road Bridge	65	Road Bridge
31	Road Bridge	66	Road Bridge
32	Road Bridge	67	Road Bridge
33	Road Bridge	68	Road Bridge
34	Road Bridge	69	Road Bridge
35	Road Bridge	70	Road Bridge

Plate No 1B: Location Map of dams, barrages, bridge showing on drainage system of the district *(Source: National Informatics Centre -NIC Website, Sept 2020)*

PLATE 2A

DISTRIBUTION MAP OF SAND BARS ON RIVERS DURING PRE-MONSOON PERIOD OF ALIPURDUAR DISTRICT

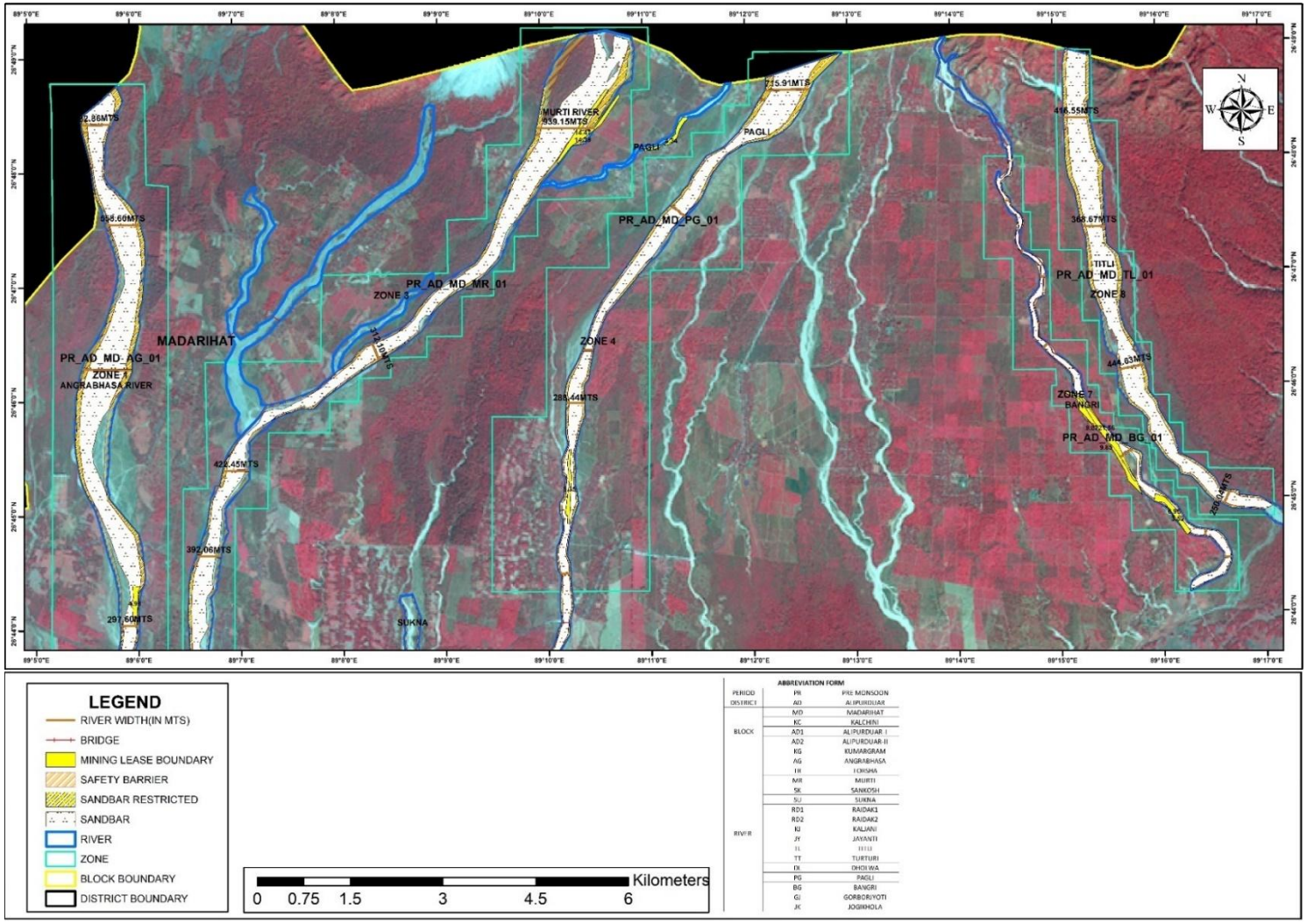


Plate 2A1: Distribution Map of Sand Bars on Rivers During Pre-Monsoon Period of Alipurduar District*(Source: ISRO RESOURCE Sat 2 LISS III Sensor, March 2020)*

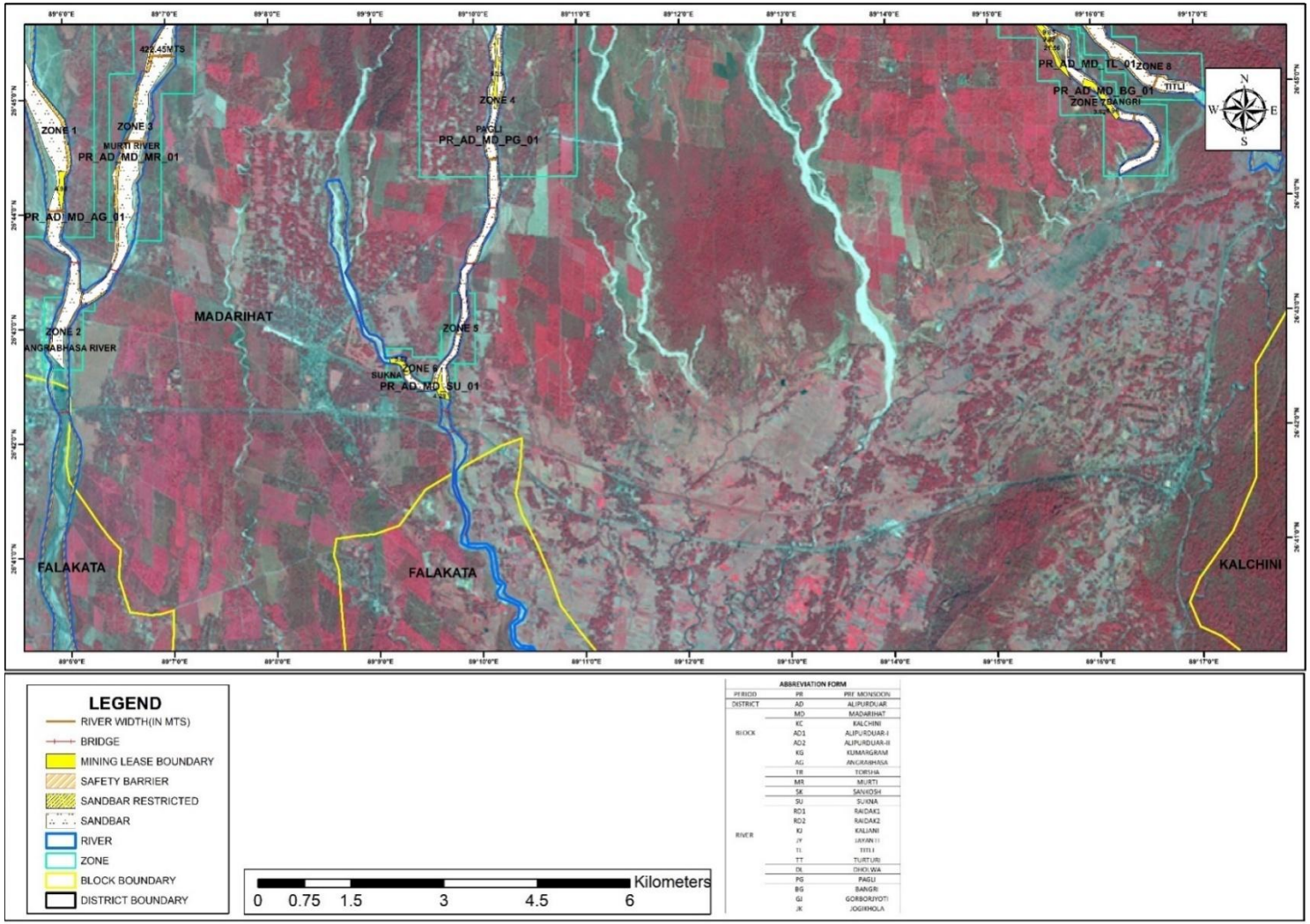


Plate 2A2: Distribution Map of Sand Bars on Rivers During Pre-Monsoon Period of Alipurduar District*(Source: ISRO RESOURCE Sat 2 LISS III Sensor, March 2020)*



Plate 2A3: Distribution Map of Sand Bars on Rivers During Pre-Monsoon Period of Alipurduar District*(Source: ISRO RESOURCE Sat 2 LISS III Sensor, March 2020)*

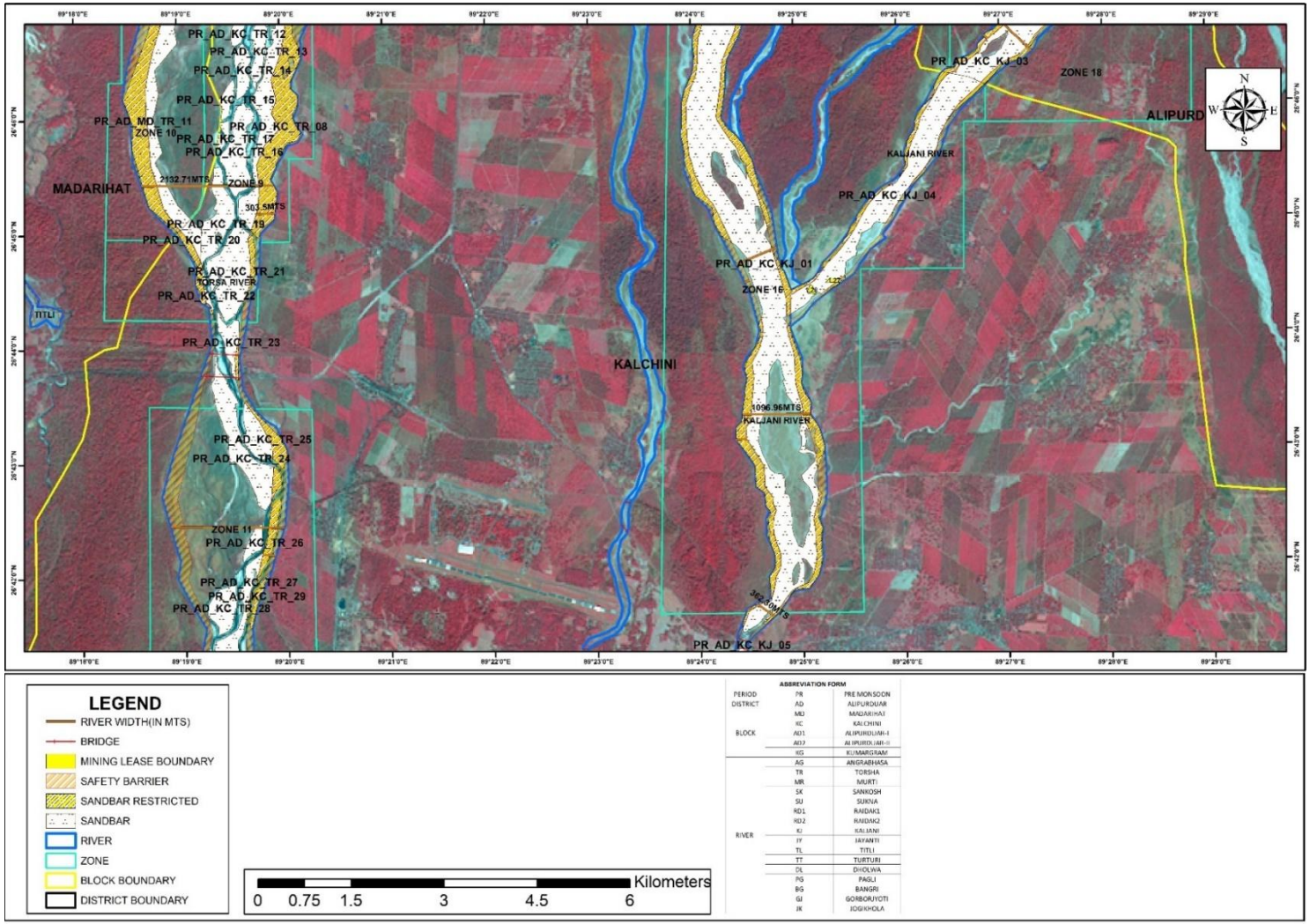


Plate 2A4: Distribution Map of Sand Bars on Rivers During Pre-Monsoon Period of Alipurduar District*(Source: ISRO RESOURCE Sat 2 LISS III Sensor, March 2020)*

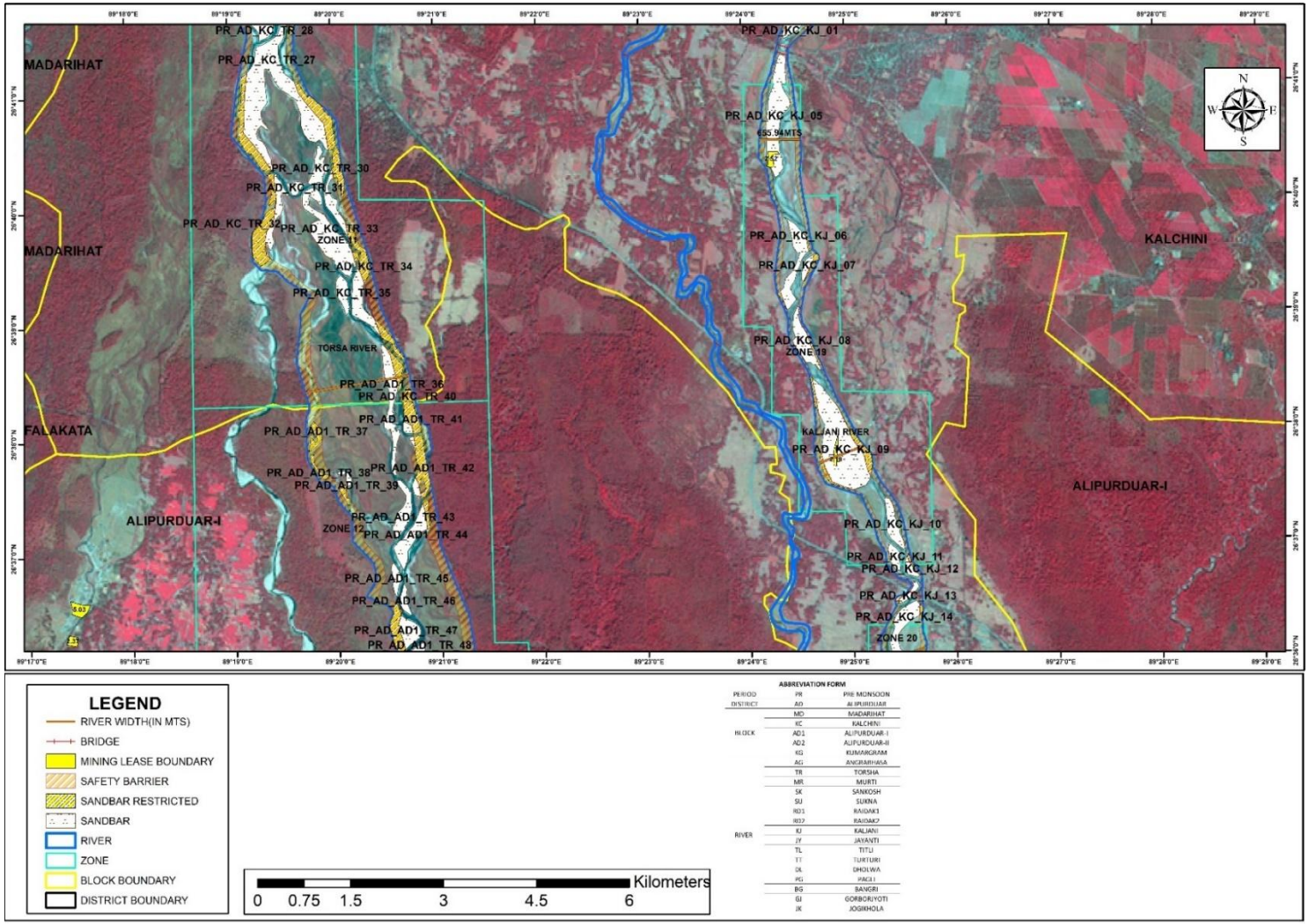


Plate 2A5: Distribution Map of Sand Bars on Rivers During Pre-Monsoon Period of Alipurduar District*(Source: ISRO RESOURCE Sat 2 LISS III Sensor, March 2020)*

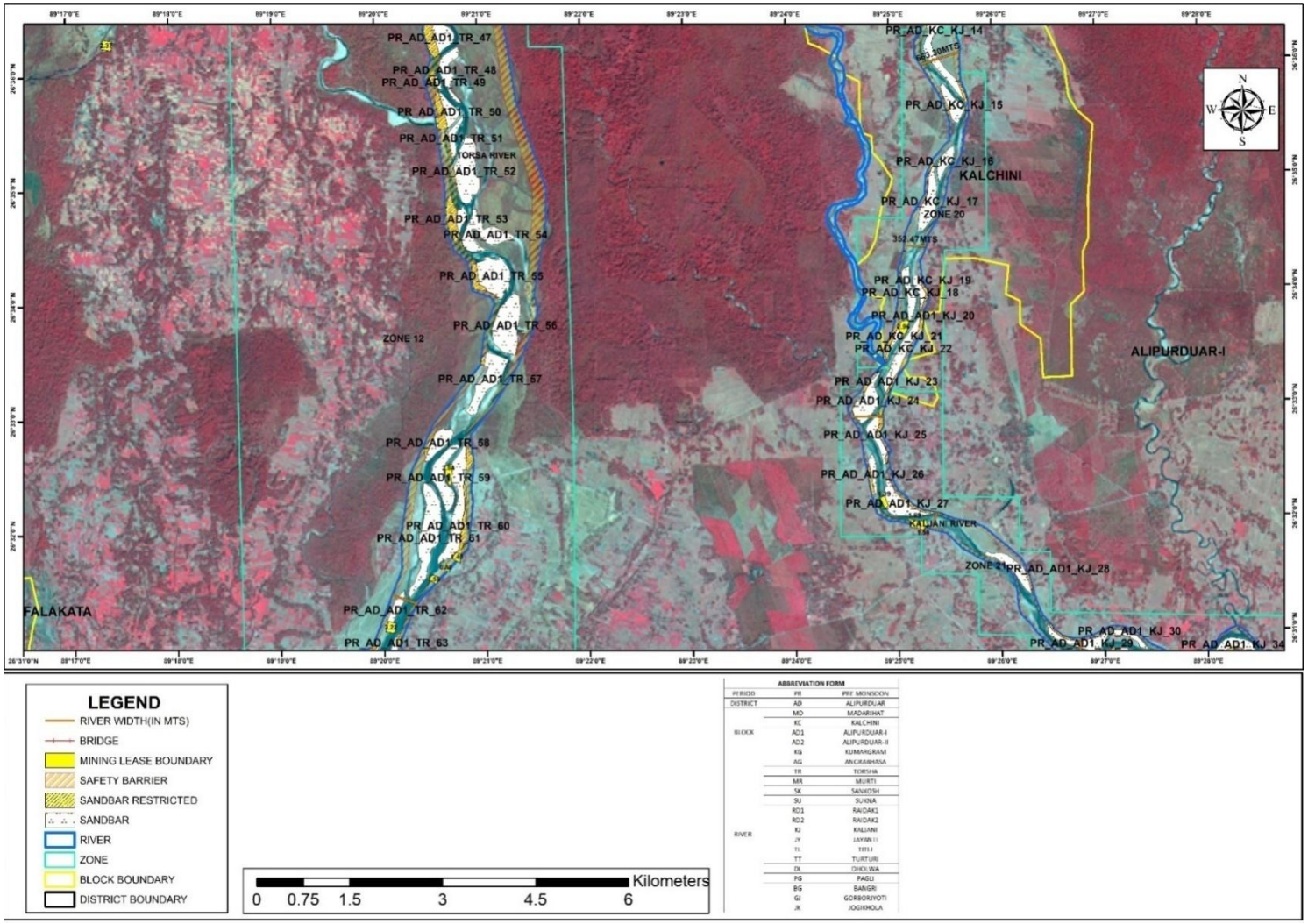


Plate 2A6: Distribution Map of Sand Bars on Rivers During Pre-Monsoon Period of Alipurduar District*(Source: ISRO RESOURCE Sat 2 LISS III Sensor, March 2020)*

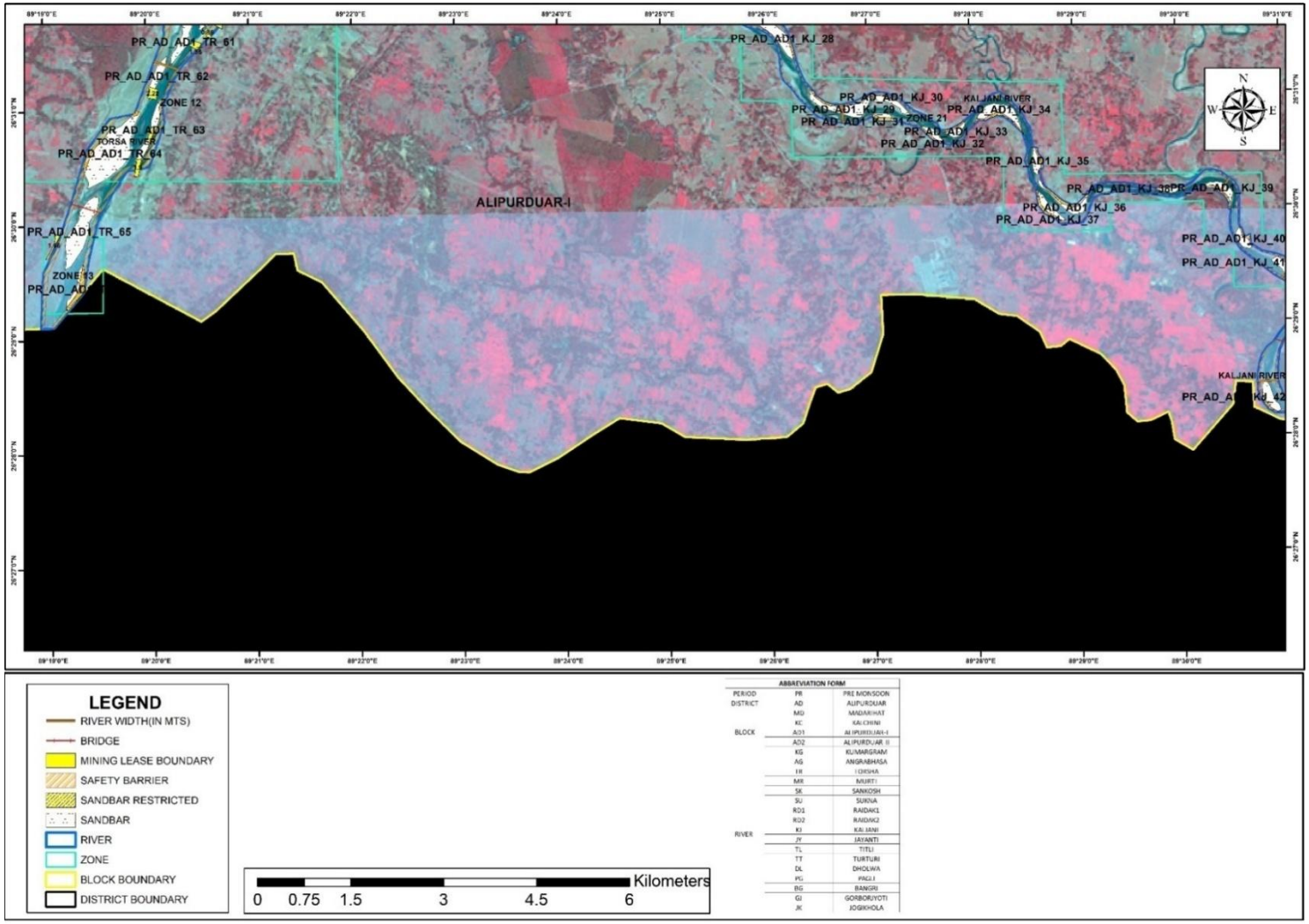


Plate 2A7: Distribution Map of Sand Bars on Rivers During Pre-Monsoon Period of Alipurduar District*(Source: ISRO RESOURCE Sat 2 LISS III Sensor, March 2020)*

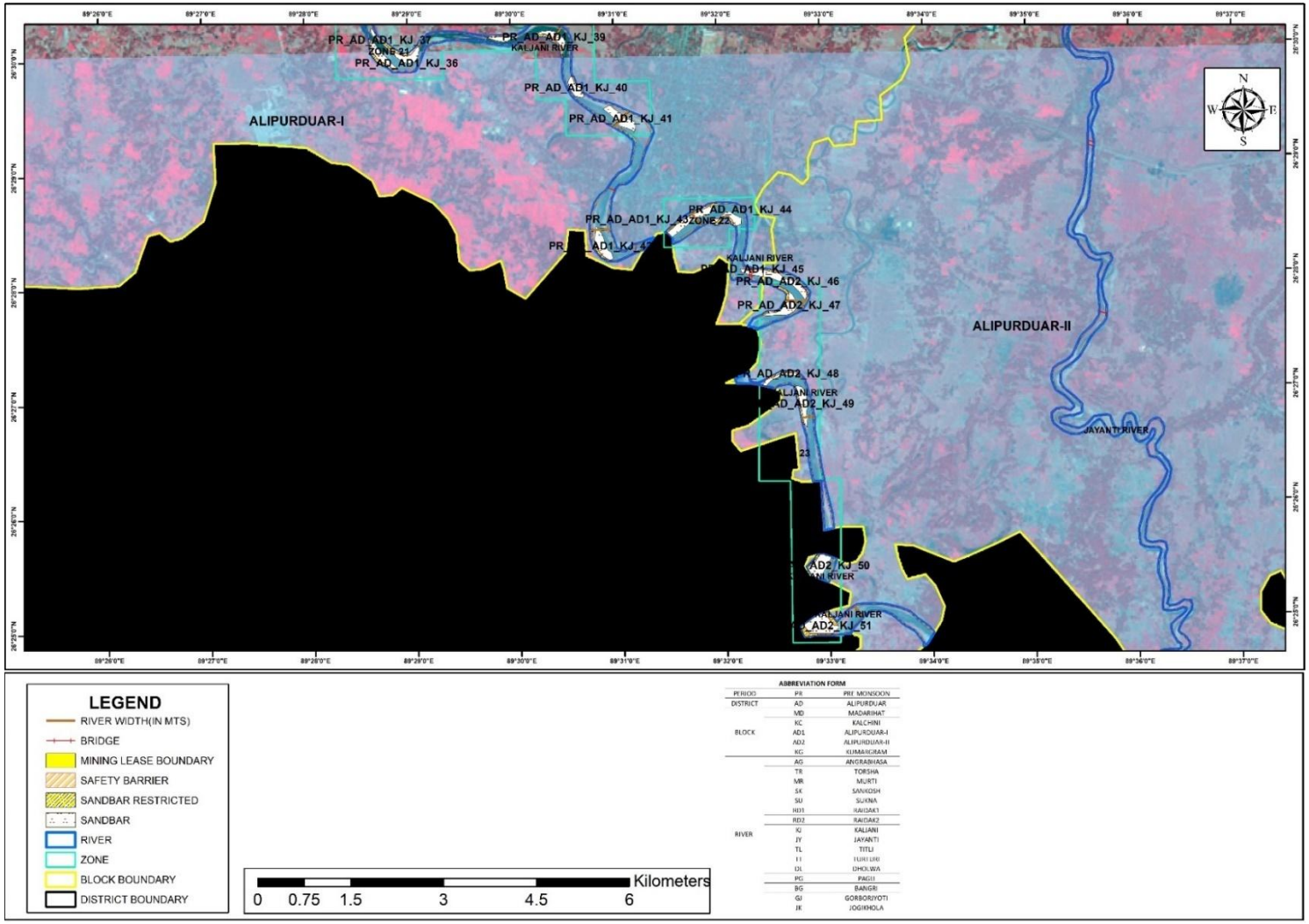


Plate 2A8: Distribution Map of Sand Bars on Rivers During Pre-Monsoon Period of Alipurduar District*(Source: ISRO RESOURCE Sat 2 LISS III Sensor, March 2020)*

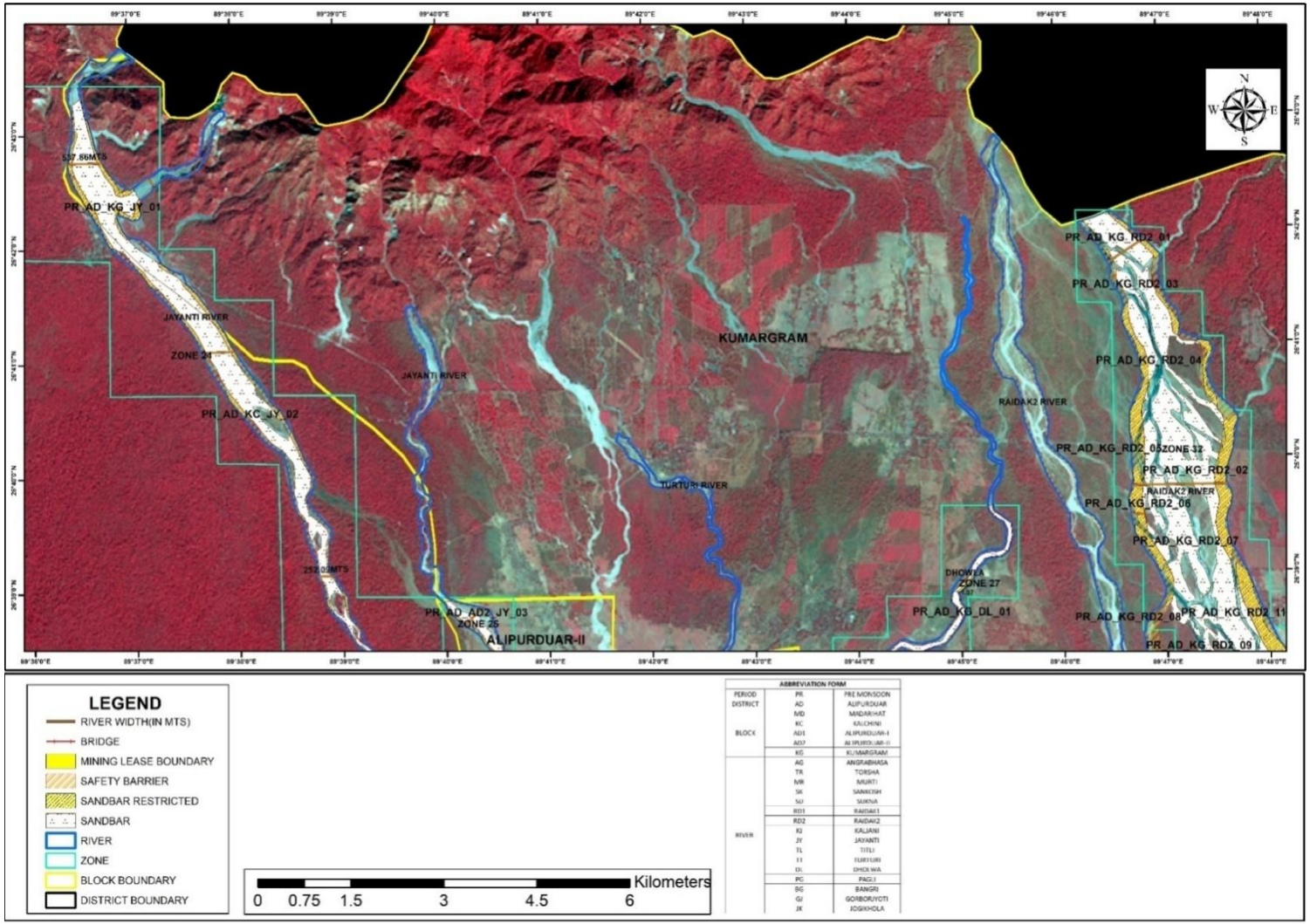


Plate 2A9: Distribution Map of Sand Bars on Rivers During Pre-Monsoon Period of Alipurduar District*(Source: ISRO RESOURCE Sat 2 LISS III Sensor, March 2020)*

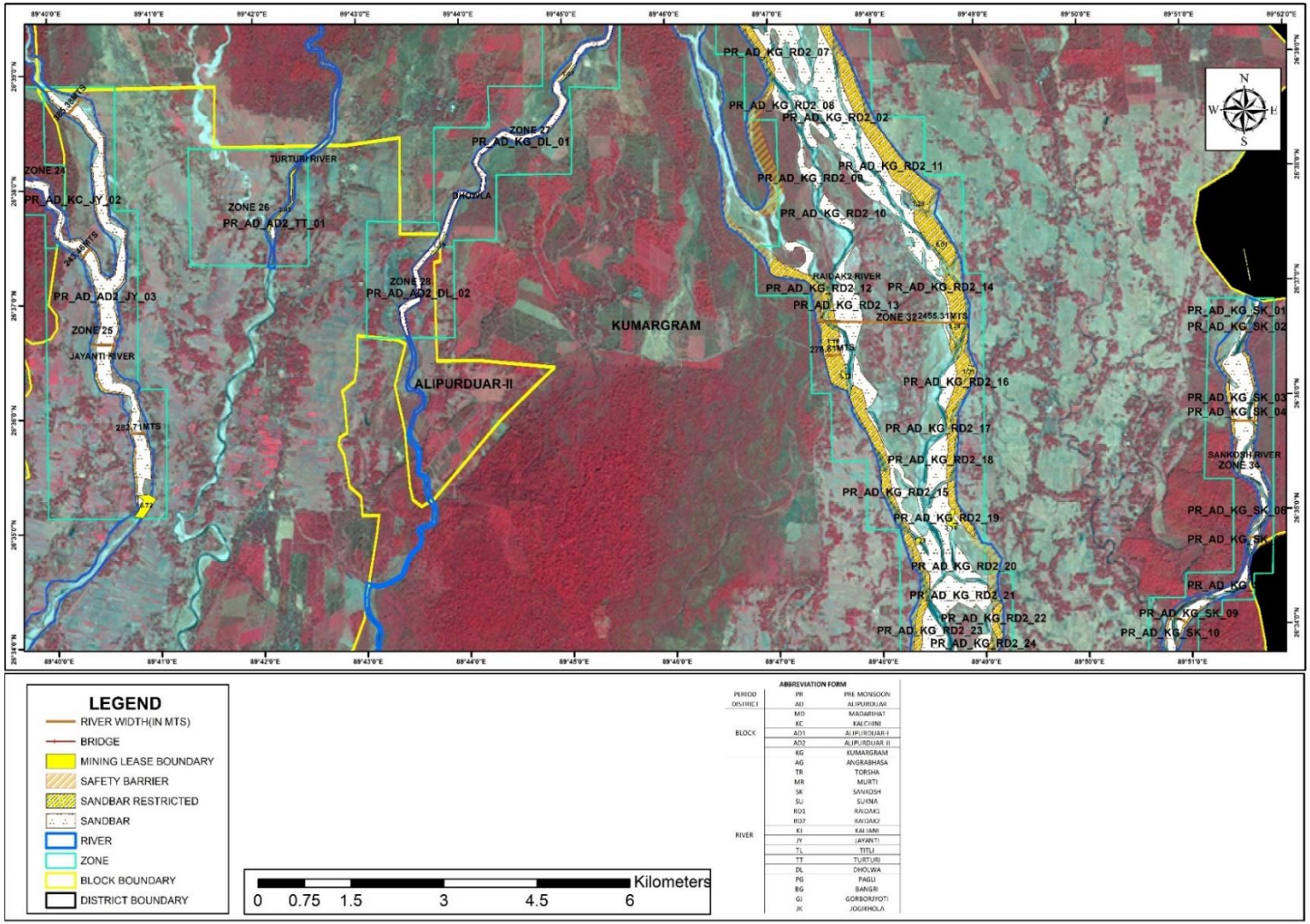


Plate 2A10: Distribution Map of Sand Bars on Rivers During Pre-Monsoon Period of Alipurduar District*(Source: ISRO RESOURCE Sat 2 LISS III Sensor, March 2020)*

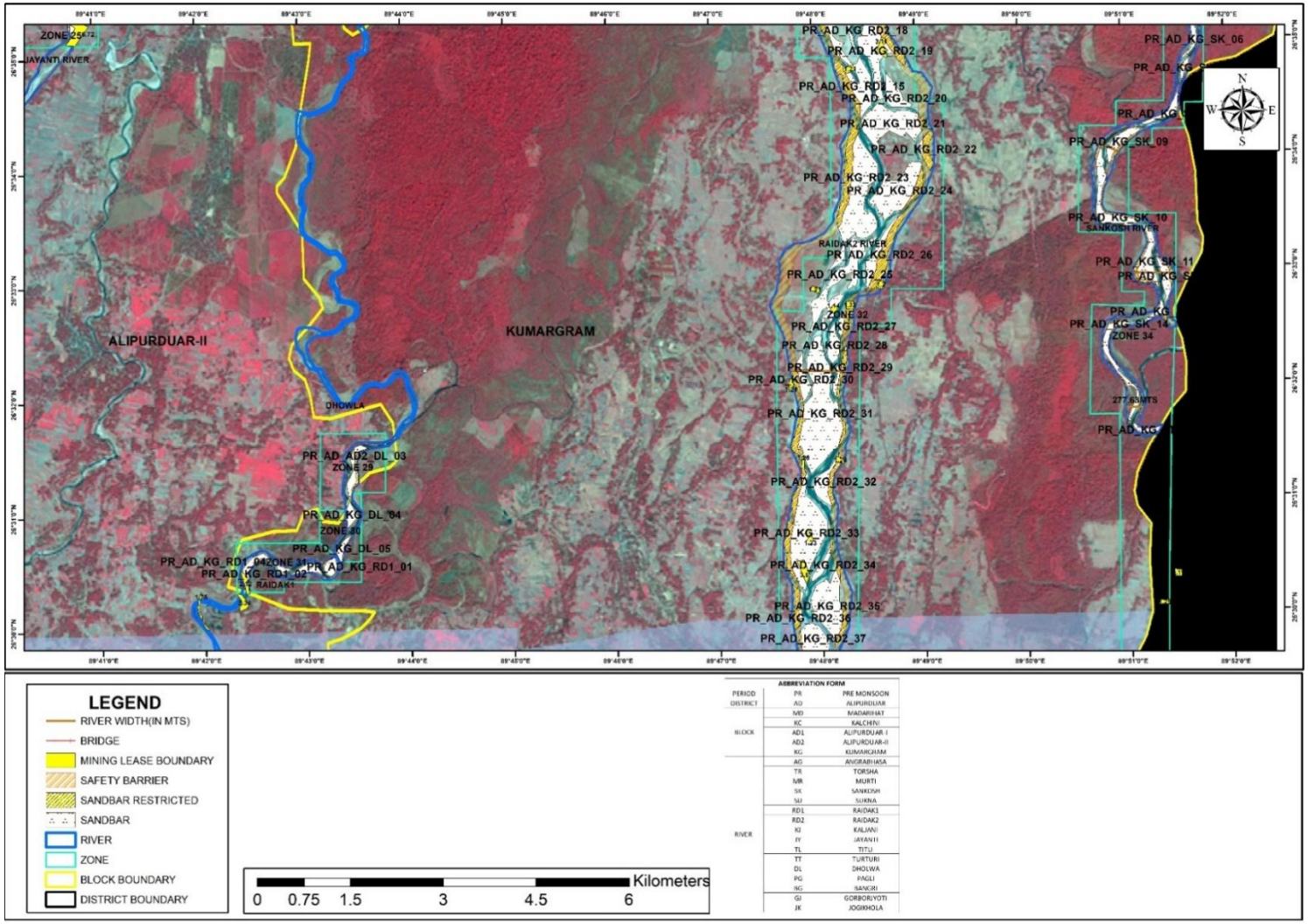


Plate 2A11: Distribution Map of Sand Bars on Rivers During Pre-Monsoon Period of Alipurduar District*(Source: ISRO RESOURCE Sat 2 LISS III Sensor, March 2020)*

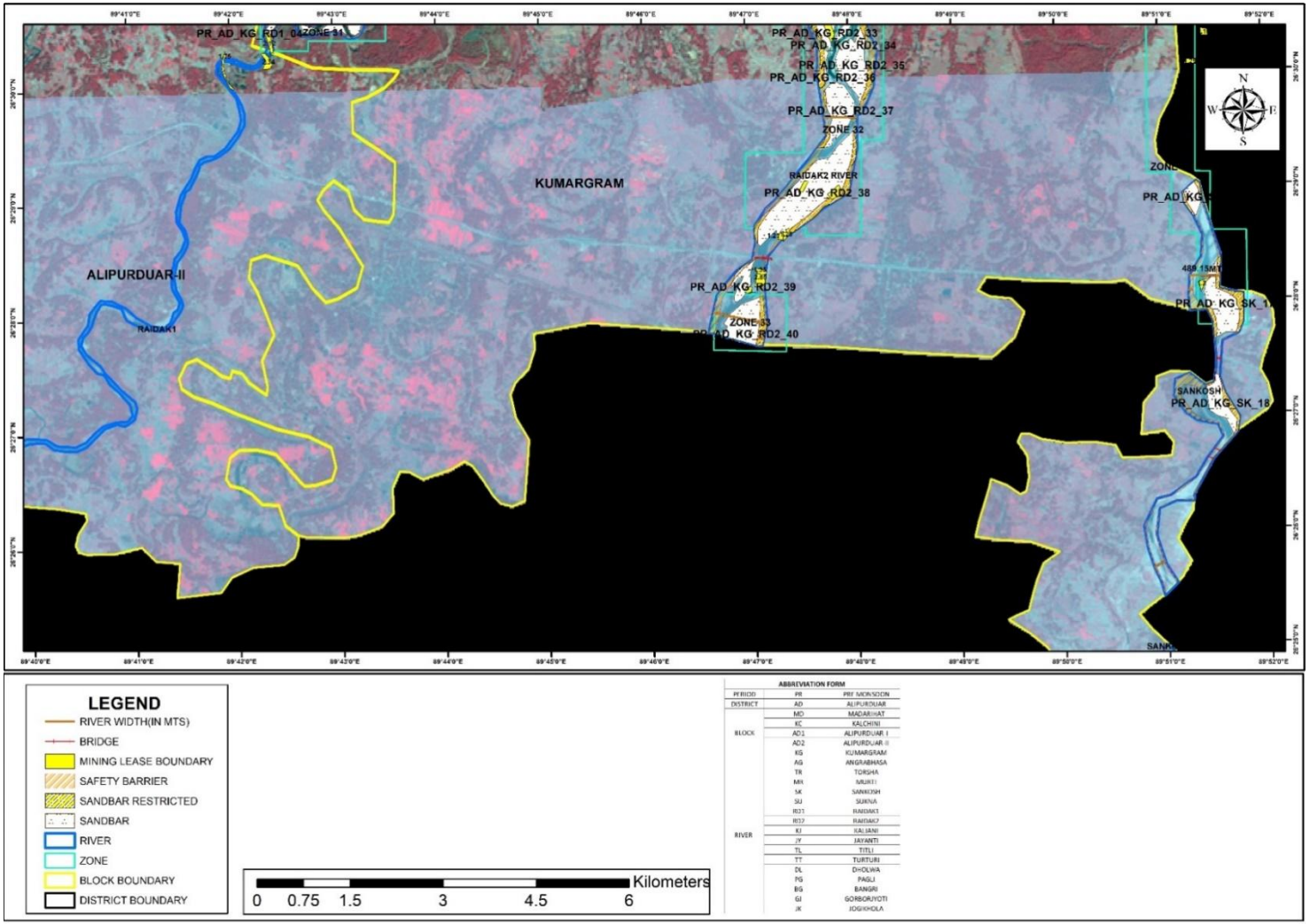


Plate 2A12: Distribution Map of Sand Bars on Rivers During Pre-Monsoon Period of Alipurduar District*(Source: ISRO RESOURCE Sat 2 LISS III Sensor, March 2020)*

PLATE 2B

DISTRIBUTION MAP OF SAND BARS ON RIVERS DURING POST-MONSOON PERIOD OF ALIPURDUAR DISTRICT

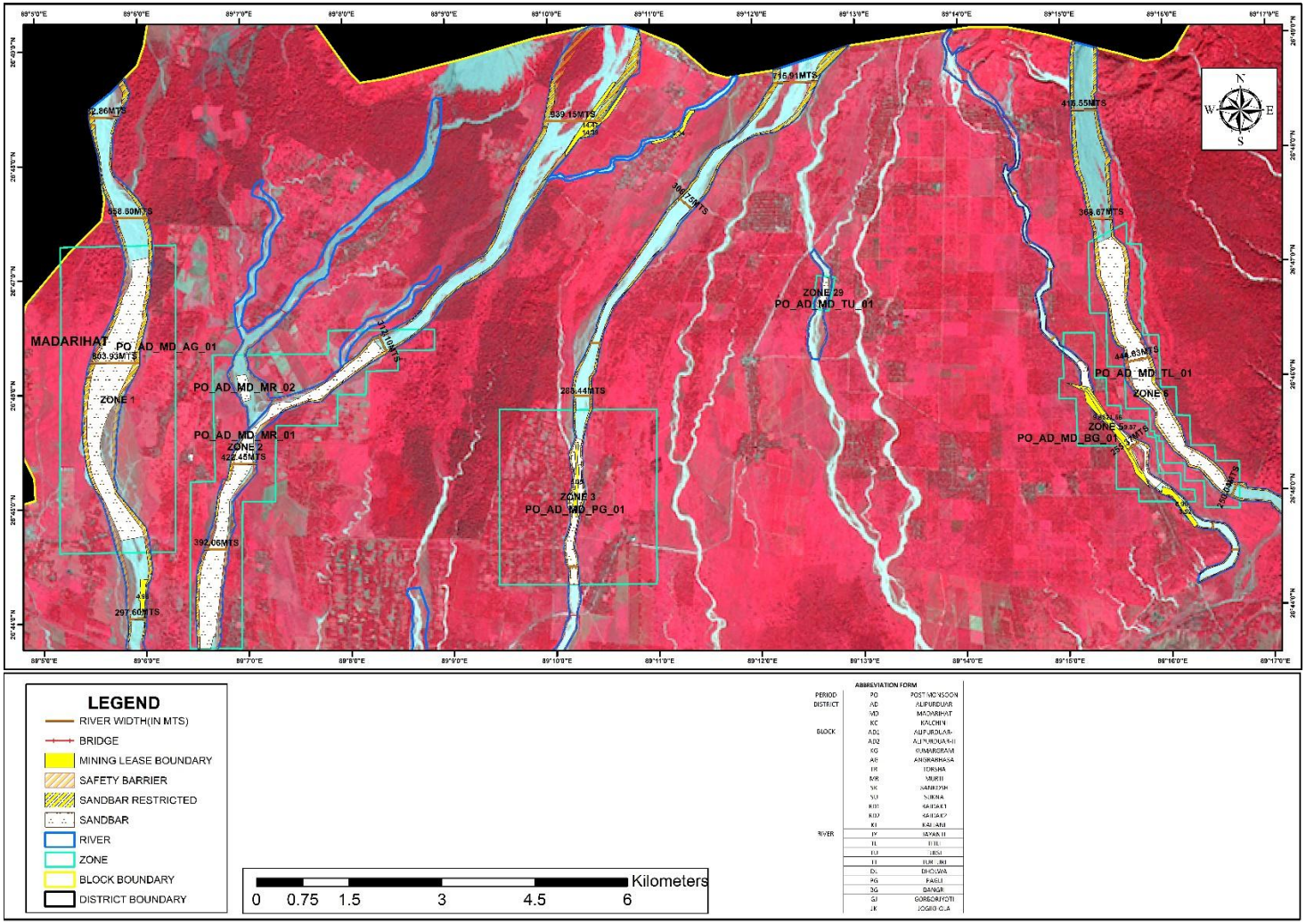


Plate 2B1: Distribution Map of Sand Bars on Rivers During Post-Monsoon Period of Alipurduar District*(Source: ISRO RESOURCE Sat 2 LISS III Sensor, November 2020)*

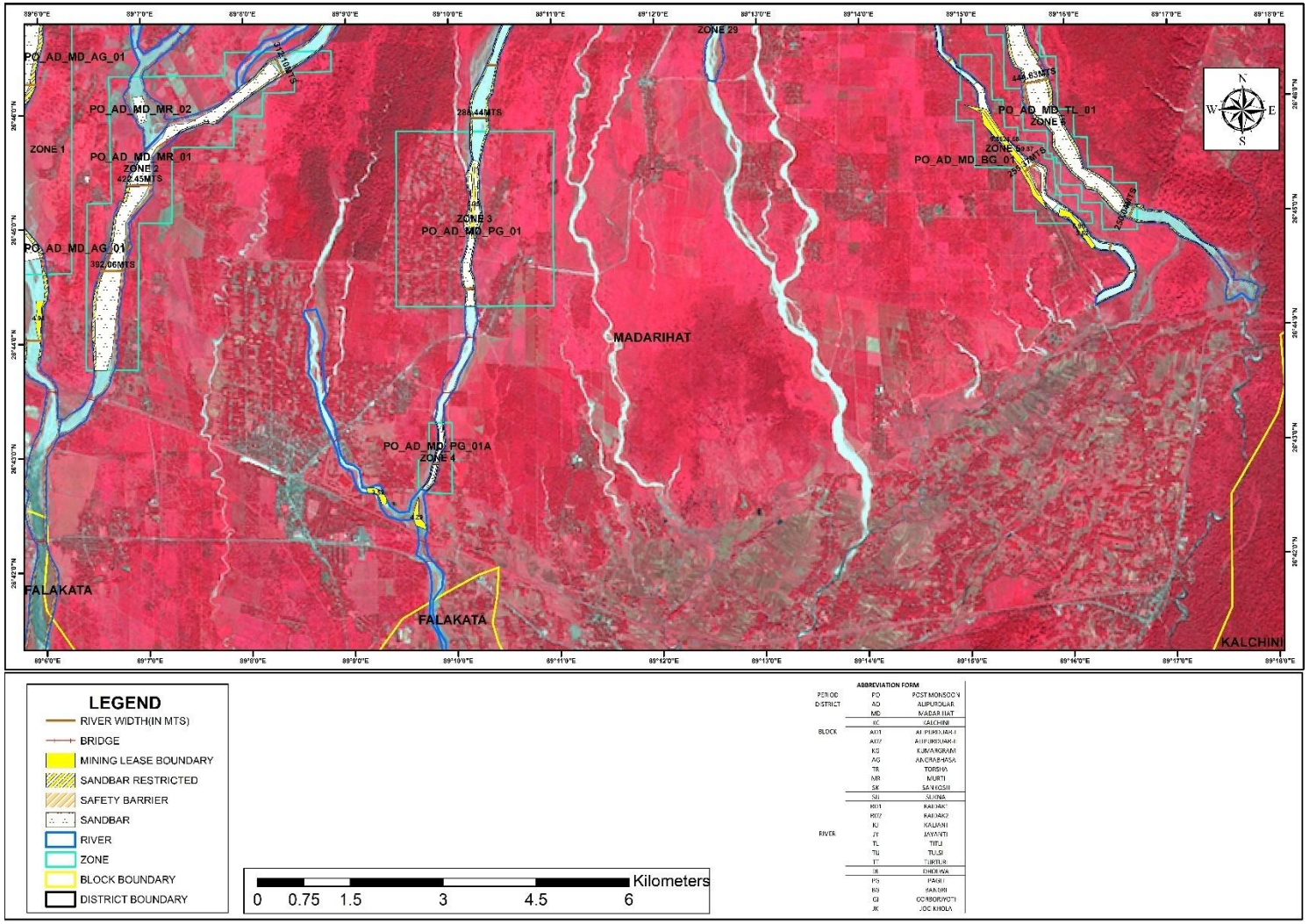


Plate 2B2: Distribution Map of Sand Bars on Rivers During Post-Monsoon Period of Alipurduar District*(Source: ISRO RESOURCE Sat 2 LISS III Sensor, November 2020)*

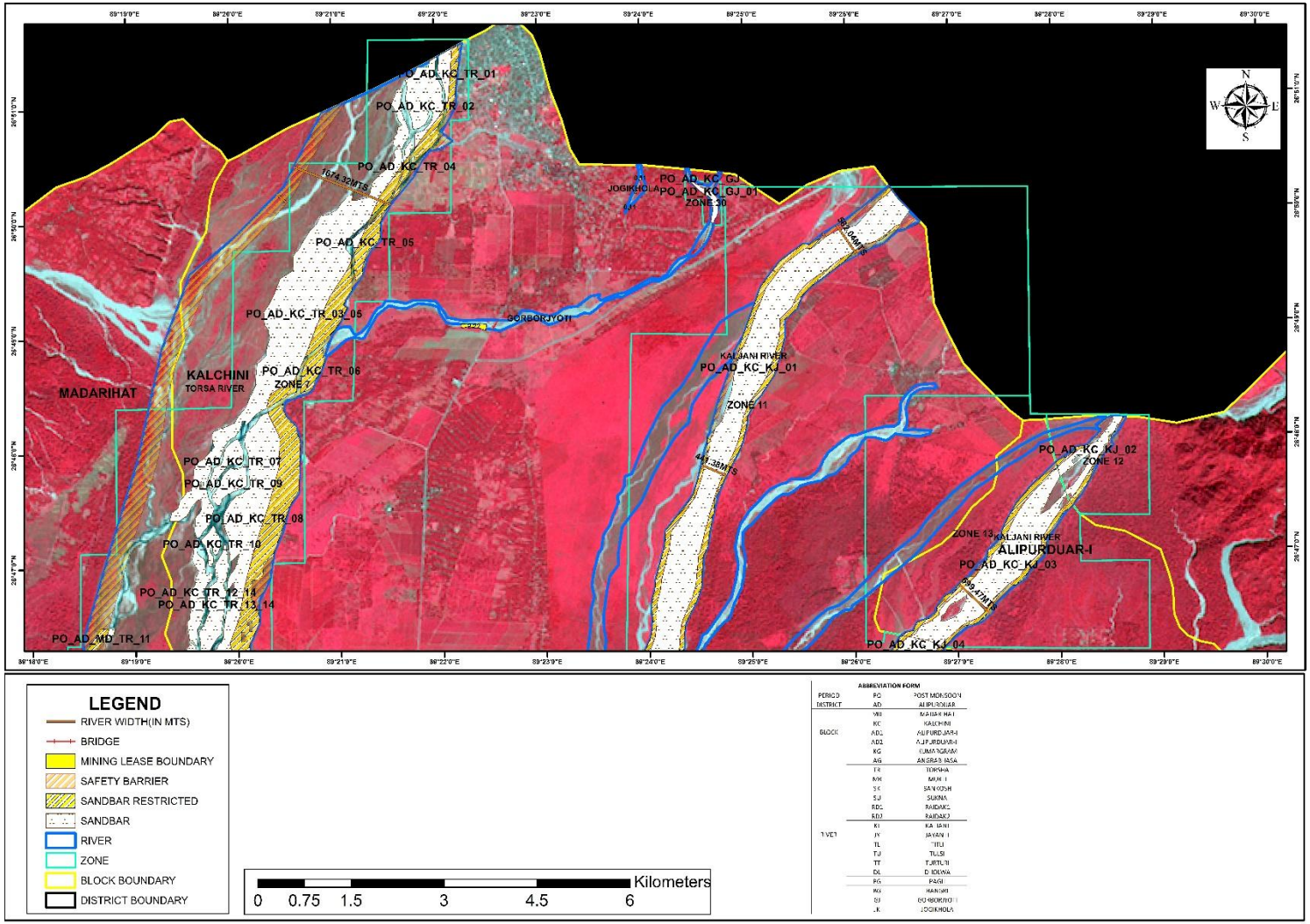


Plate 2B3: Distribution Map of Sand Bars on Rivers During Post-Monsoon Period of Alipurduar District*(Source: ISRO RESOURCE Sat 2 LISS III Sensor, November 2020)*

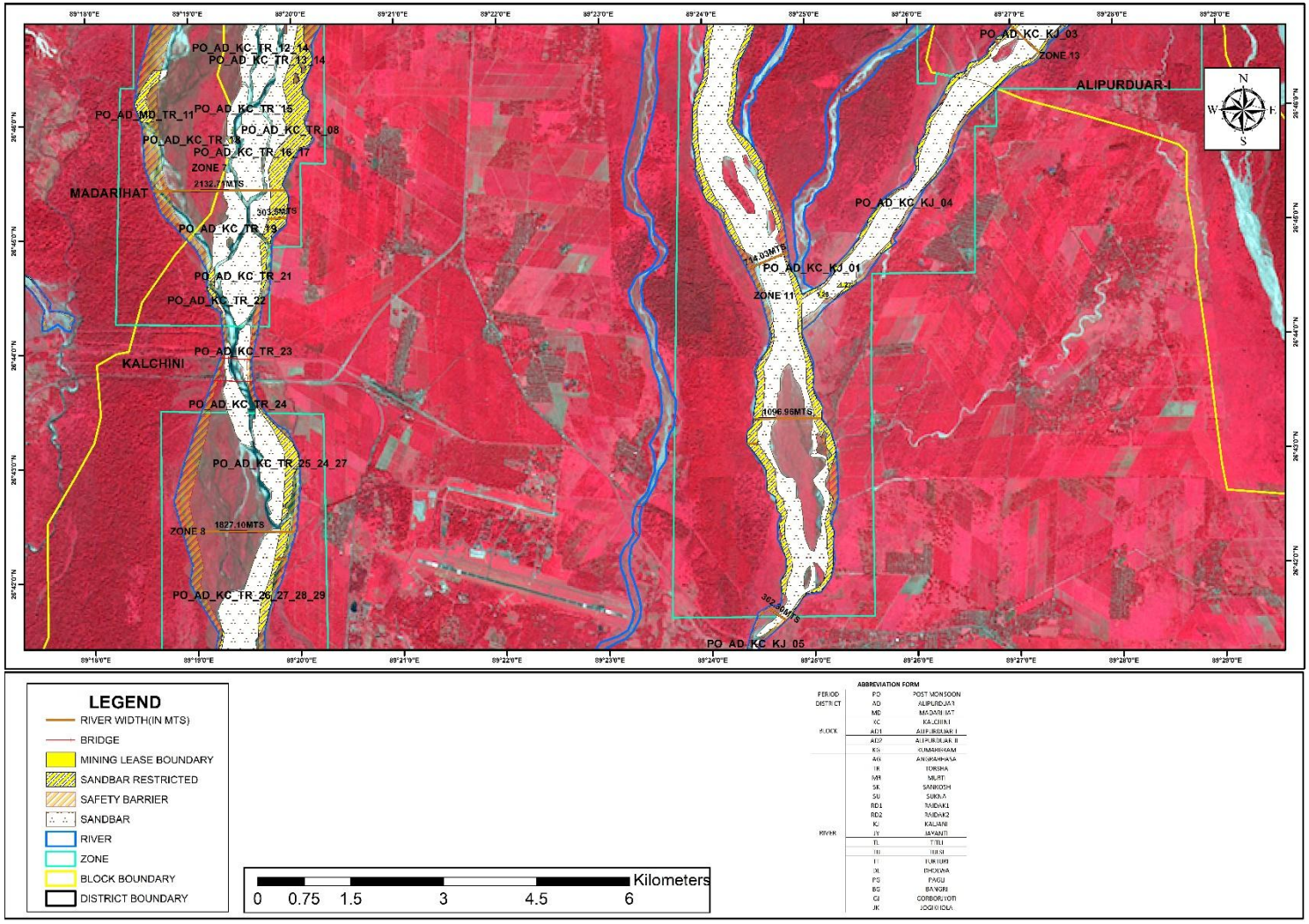


Plate 2B4: Distribution Map of Sand Bars on Rivers During Post-Monsoon Period of Alipurduar District*(Source: ISRO RESOURCE Sat 2 LISS III Sensor, November 2020)*

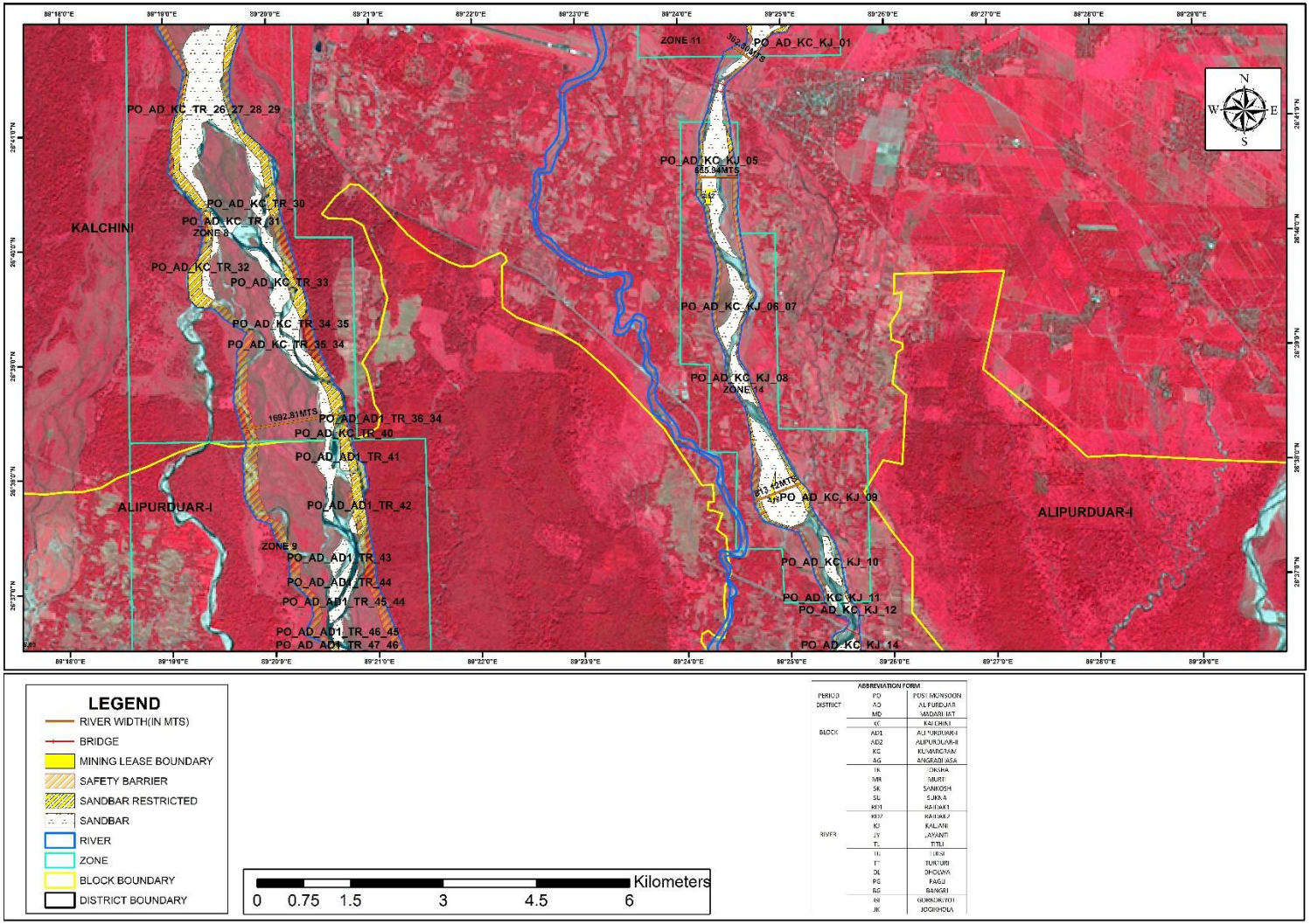


Plate 2B5: Distribution Map of Sand Bars on Rivers During Post-Monsoon Period of Alipurduar District*(Source: ISRO RESOURCE Sat 2 LISS III Sensor, November 2020)*

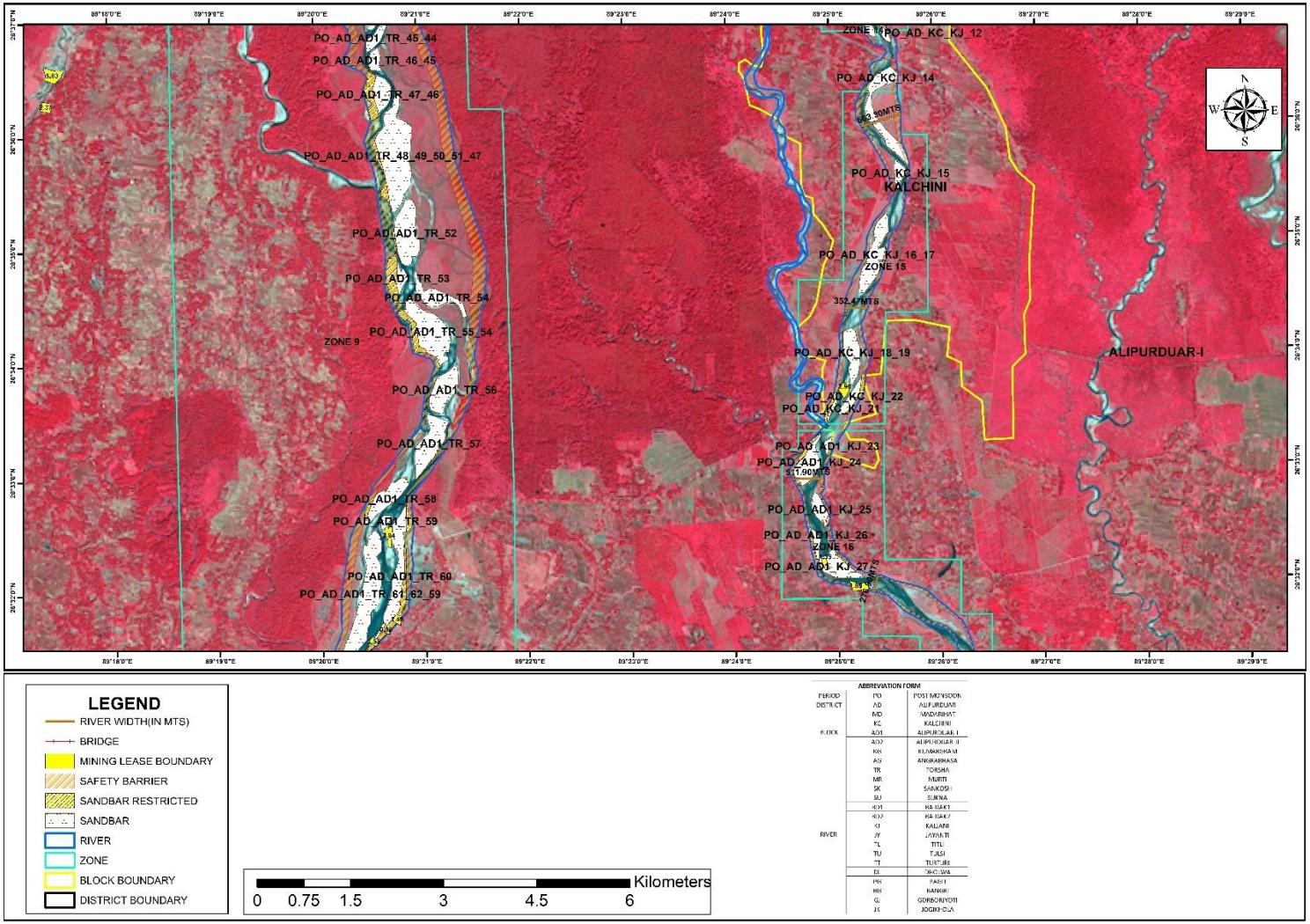


Plate 2B6: Distribution Map of Sand Bars on Rivers During Post-Monsoon Period of Alipurduar District*(Source: ISRO RESOURCE Sat 2 LISS III Sensor, November 2020)*

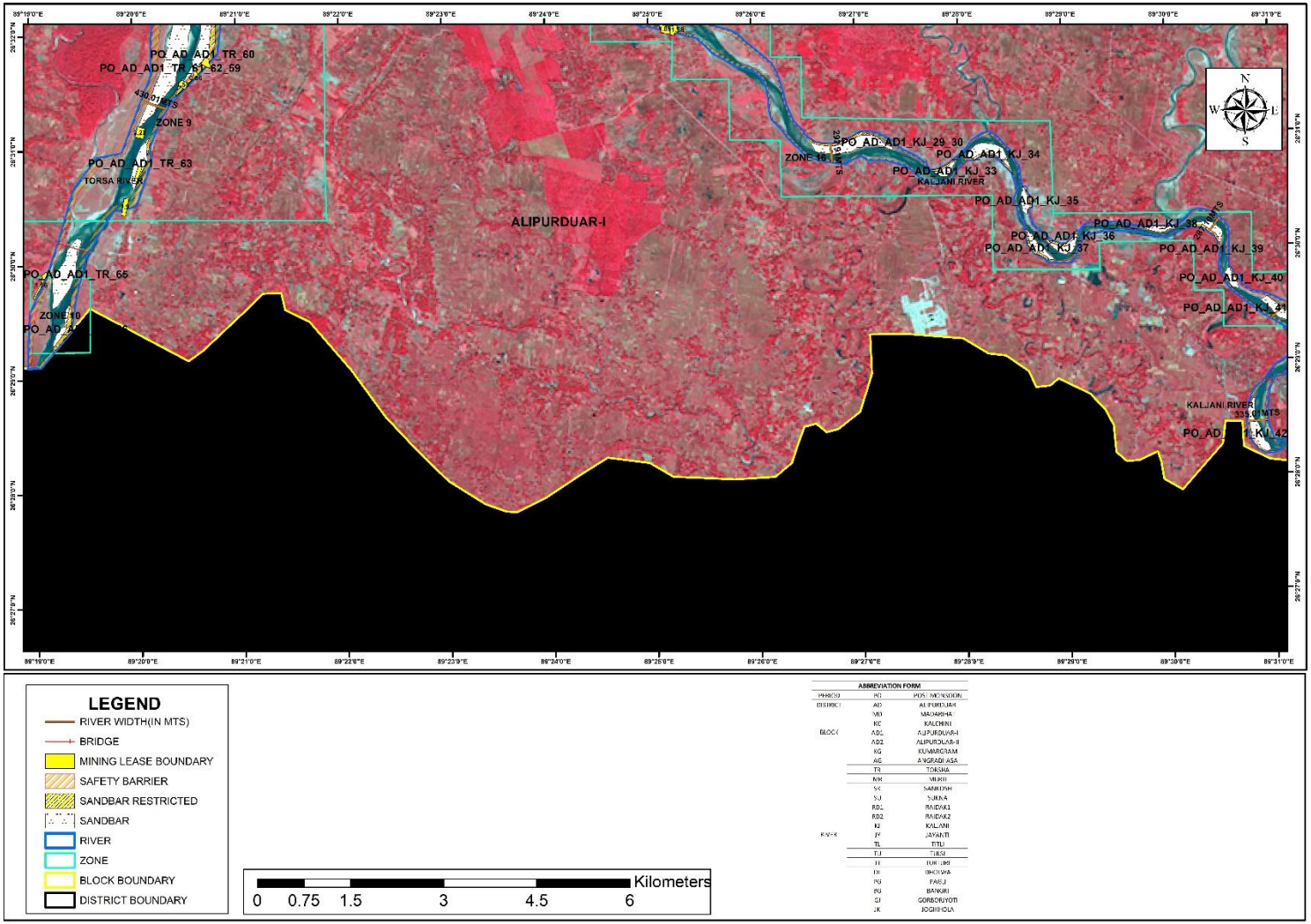


Plate 2B7: Distribution Map of Sand Bars on Rivers During Post-Monsoon Period of Alipurduar District*(Source: ISRO RESOURCE Sat 2 LISS III Sensor, November 2020)*

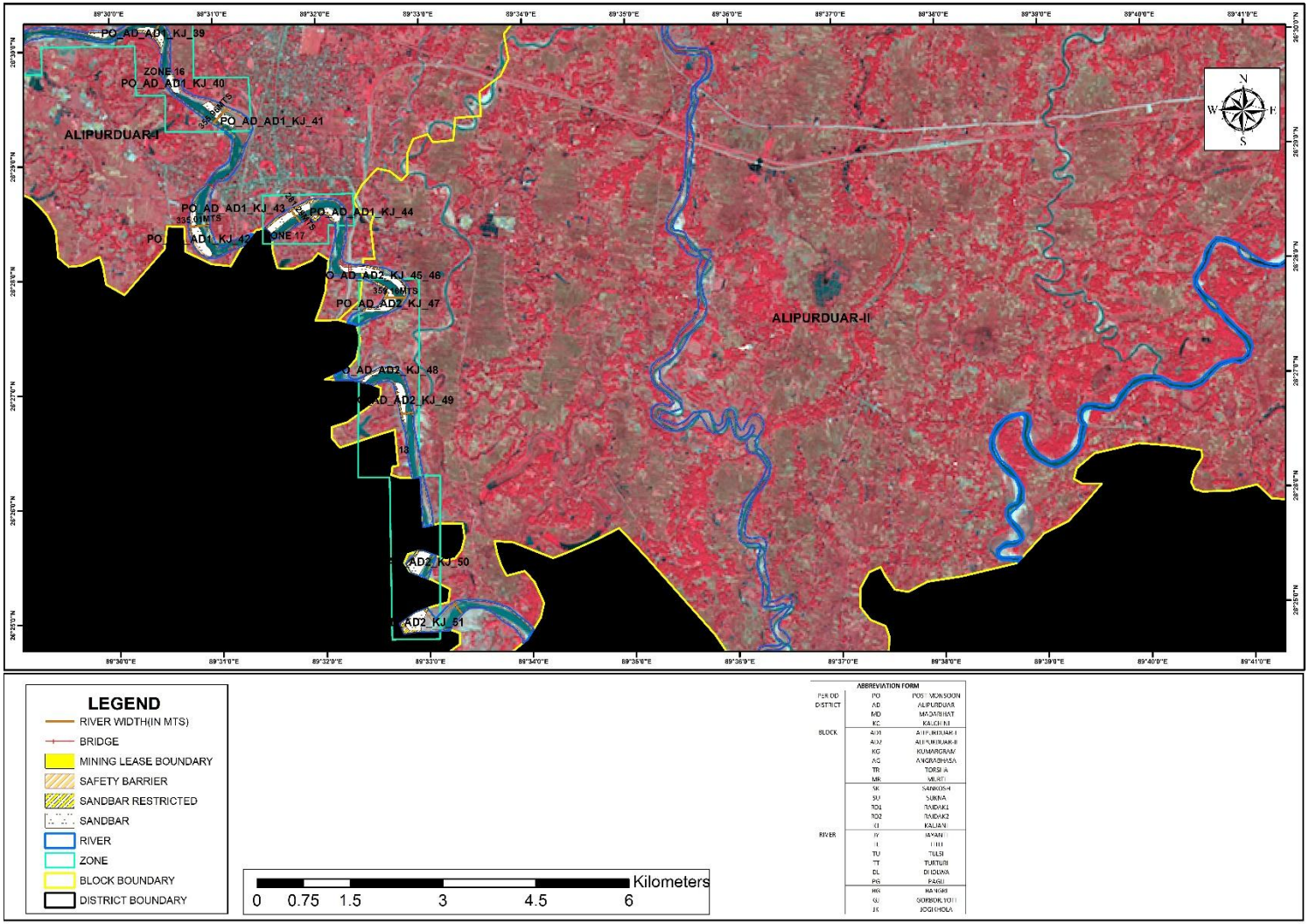


Plate 2B8: Distribution Map of Sand Bars on Rivers During Post-Monsoon Period of Alipurduar District*(Source: ISRO RESOURCE Sat 2 LISS III Sensor, November 2020)*

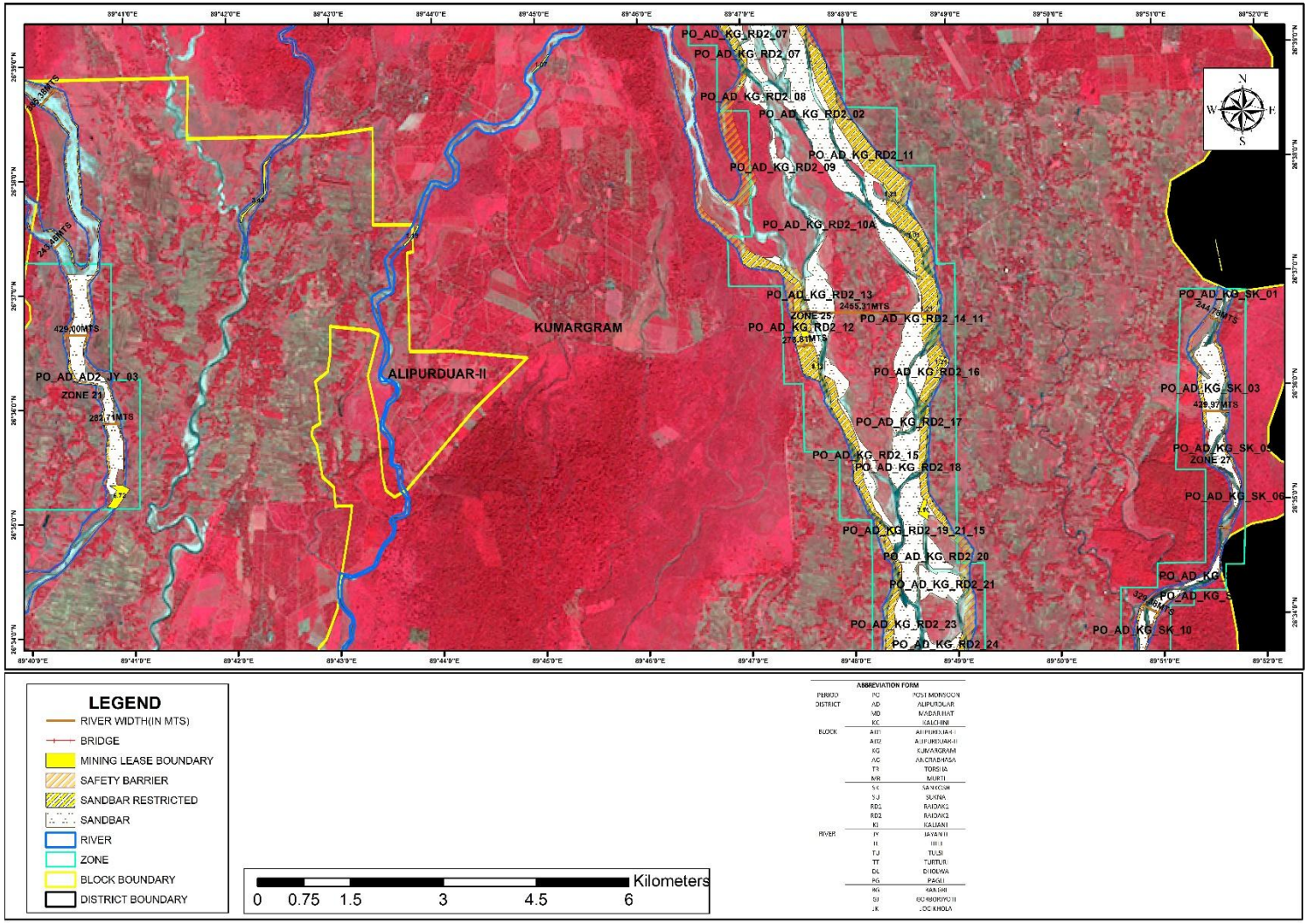


Plate 2B9: Distribution Map of Sand Bars on Rivers During Post-Monsoon Period of Alipurduar District*(Source: ISRO RESOURCE Sat 2 LISS III Sensor, November 2020)*

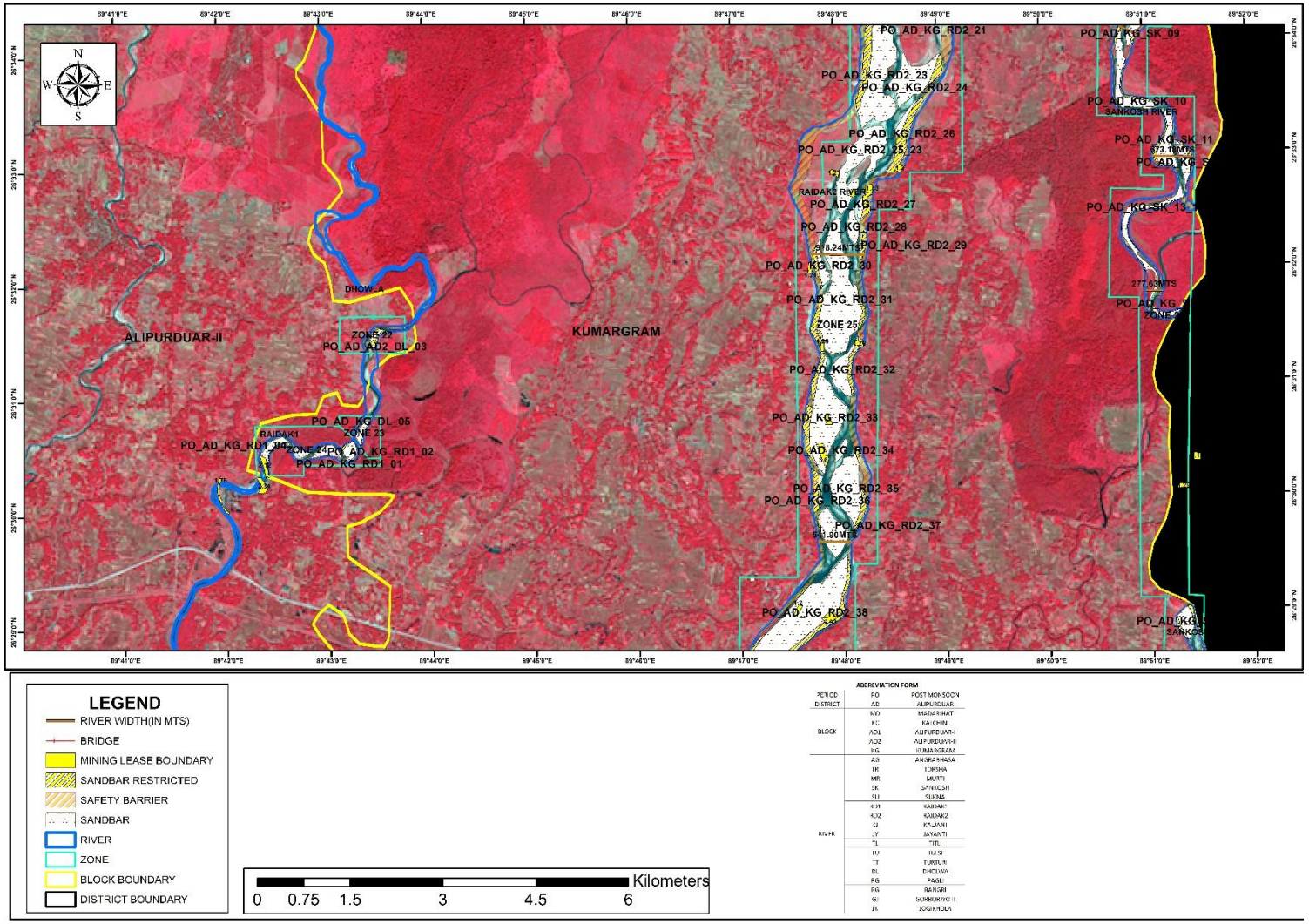


Plate 2B10: Distribution Map of Sand Bars on Rivers During Post-Monsoon Period of Alipurduar District*(Source: ISRO RESOURCE Sat 2 LISS III Sensor, November 2020)*

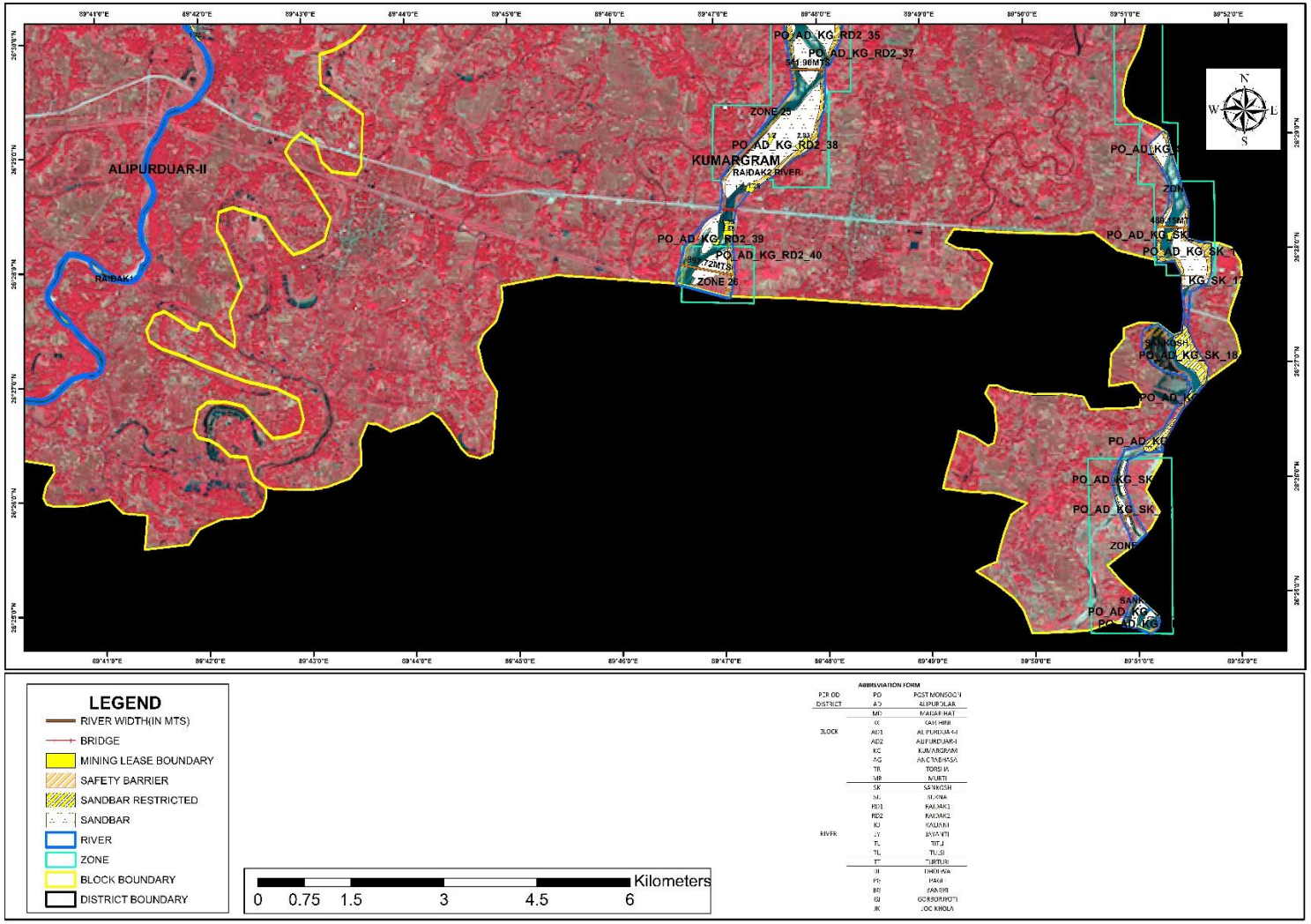


Plate 2B11: Distribution Map of Sand Bars on Rivers During Post-Monsoon Period of Alipurduar District *(Source: ISRO RESOURCE Sat 2 LISS III Sensor, November 2020)*

PLATE 3

WATERSHED MAP OF THE DISTRICT

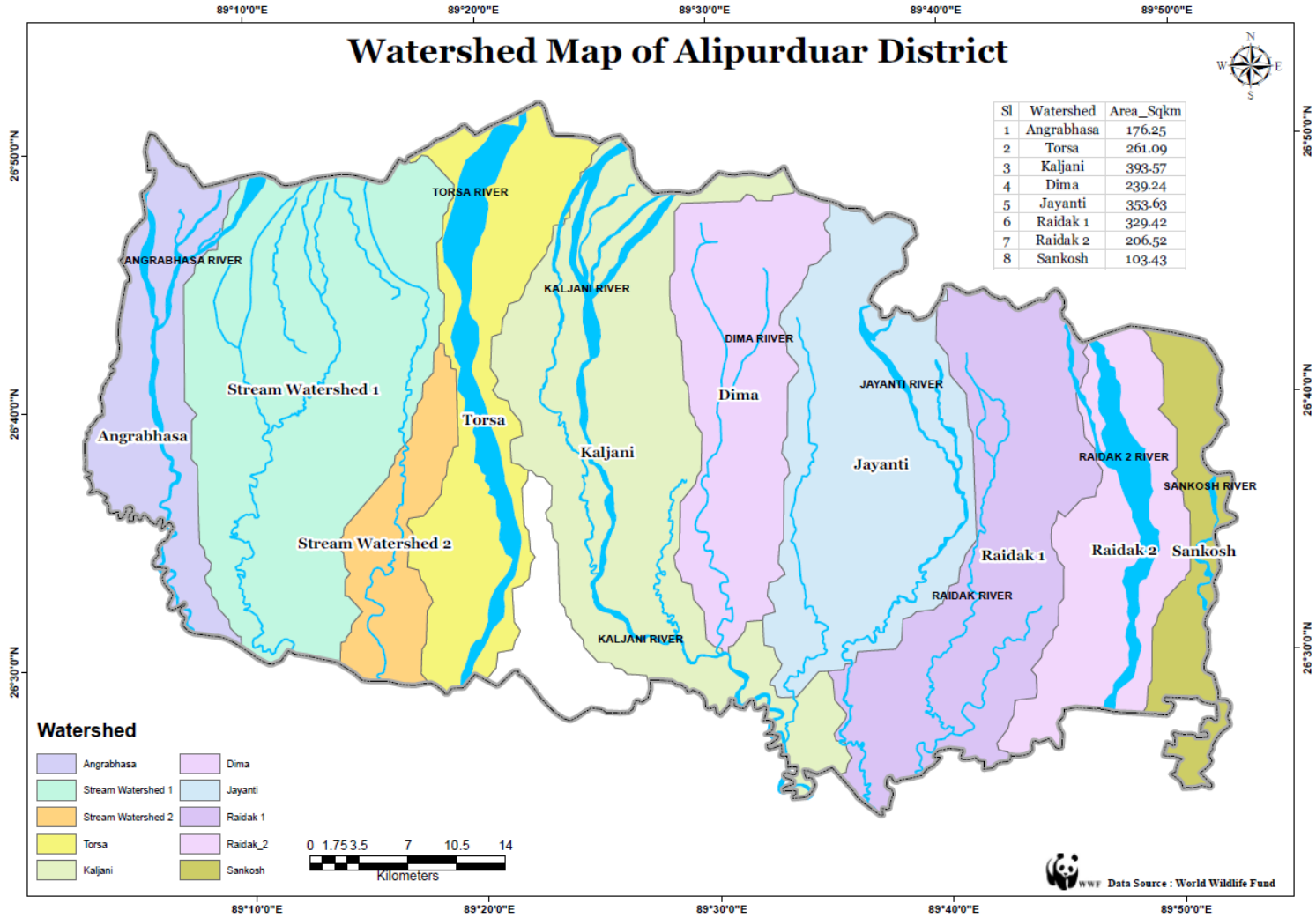


Plate 3A: Watershed Map of Alipurduar District*(Source: World Wild Fund for Nature, Sept 2020)*

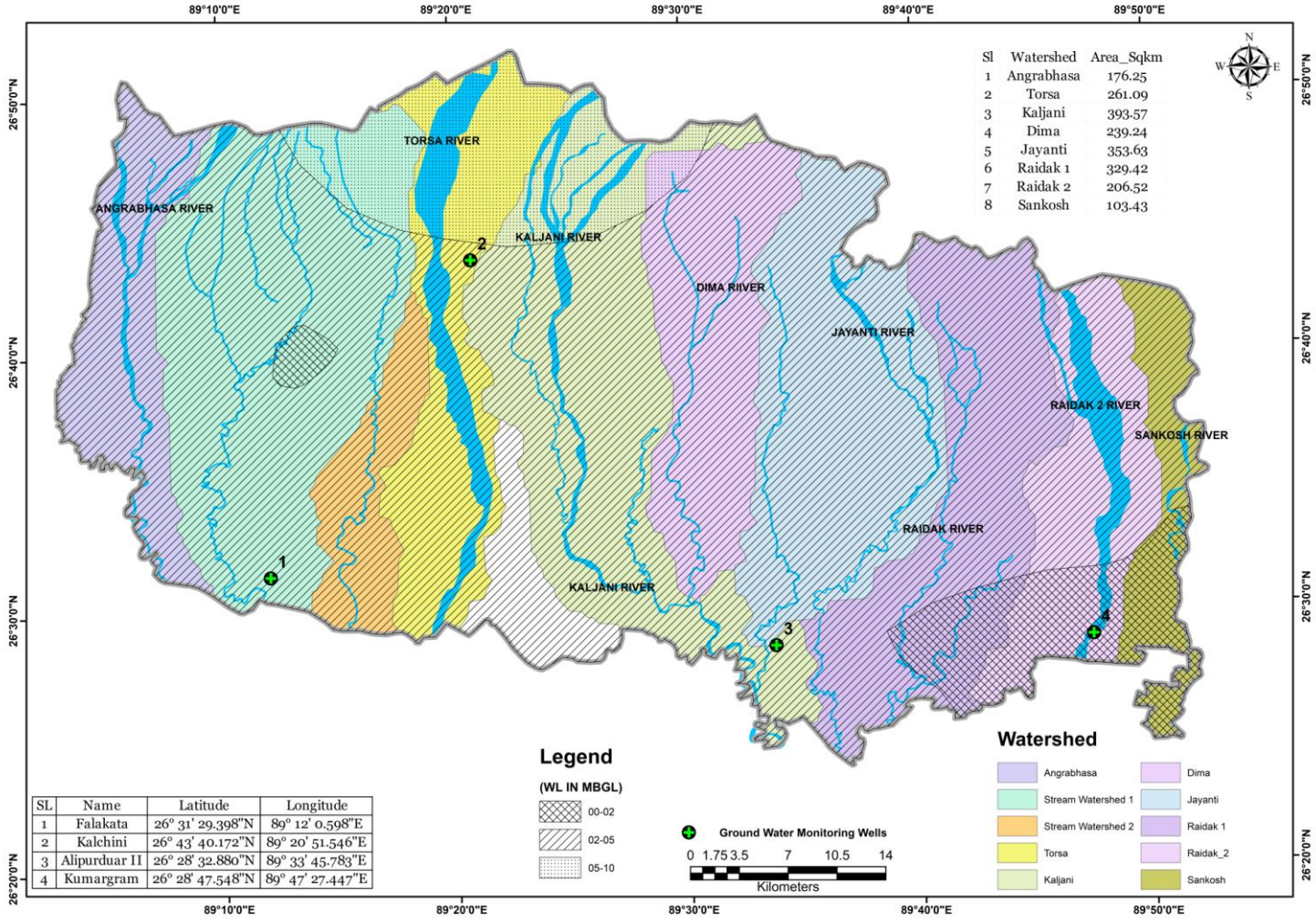


Plate 3B: District Watershed map showing groundwater level during Pre-monsoon period *(Source: World Wild Fund for Nature, Sept 2020)*

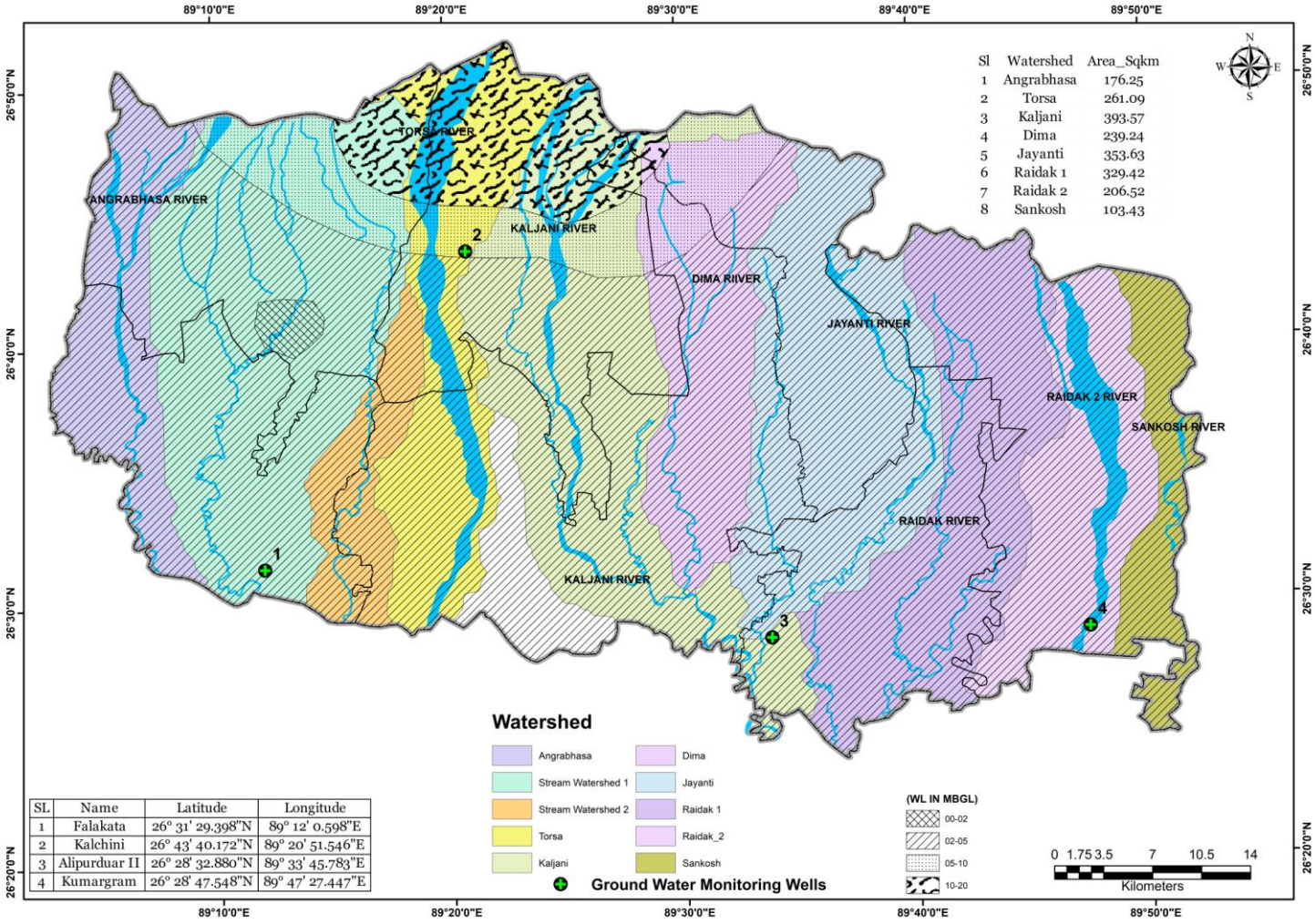


Plate 3C: District Watershed map showing groundwater level during Post-monsoon period *(Source: World Wild Fund for Nature, Sept 2020)*

PLATE 4

FIELD SURVEY PHOTOGRAPHS

	
4A: Sand deposit at Raidak River (Date: 12-12-20, Lat: 26.488471° and Long: 89.797491°)	**4B: Sand& Gravel deposit at Jayanti River (Date: 13-12-20, Lat: 26.610639° and Long: 89.675642°)**
	
4C: Sand deposit at Sankosh River (Date: 12-12-20, Lat: 26.470008° and Long: 89.855036°)	**4D: Sand deposit at Kaljani River (Date: 11-12-20, Lat: 26.592319° and Long: 89.427961°)**

PLATE 5A & 5B

LONG TERM EROSION-ACCRETION MAP OF RIVER BANK

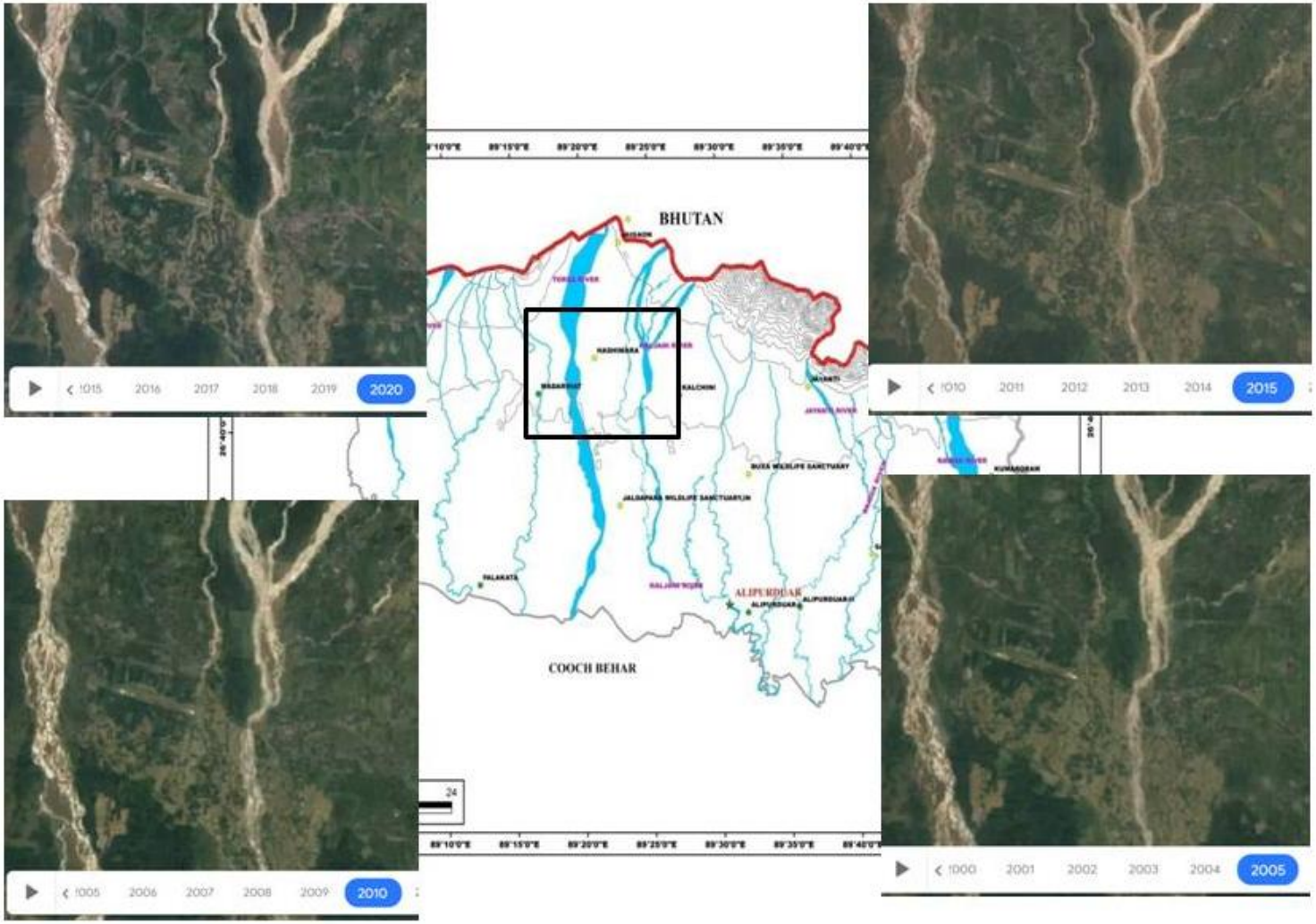


Plate 5A: Long term river course map showing very less erosion/ accretion along its banks*(Source: ISRO RESOURCE Sat 2 LISS III Sensor, Sept 2020)*

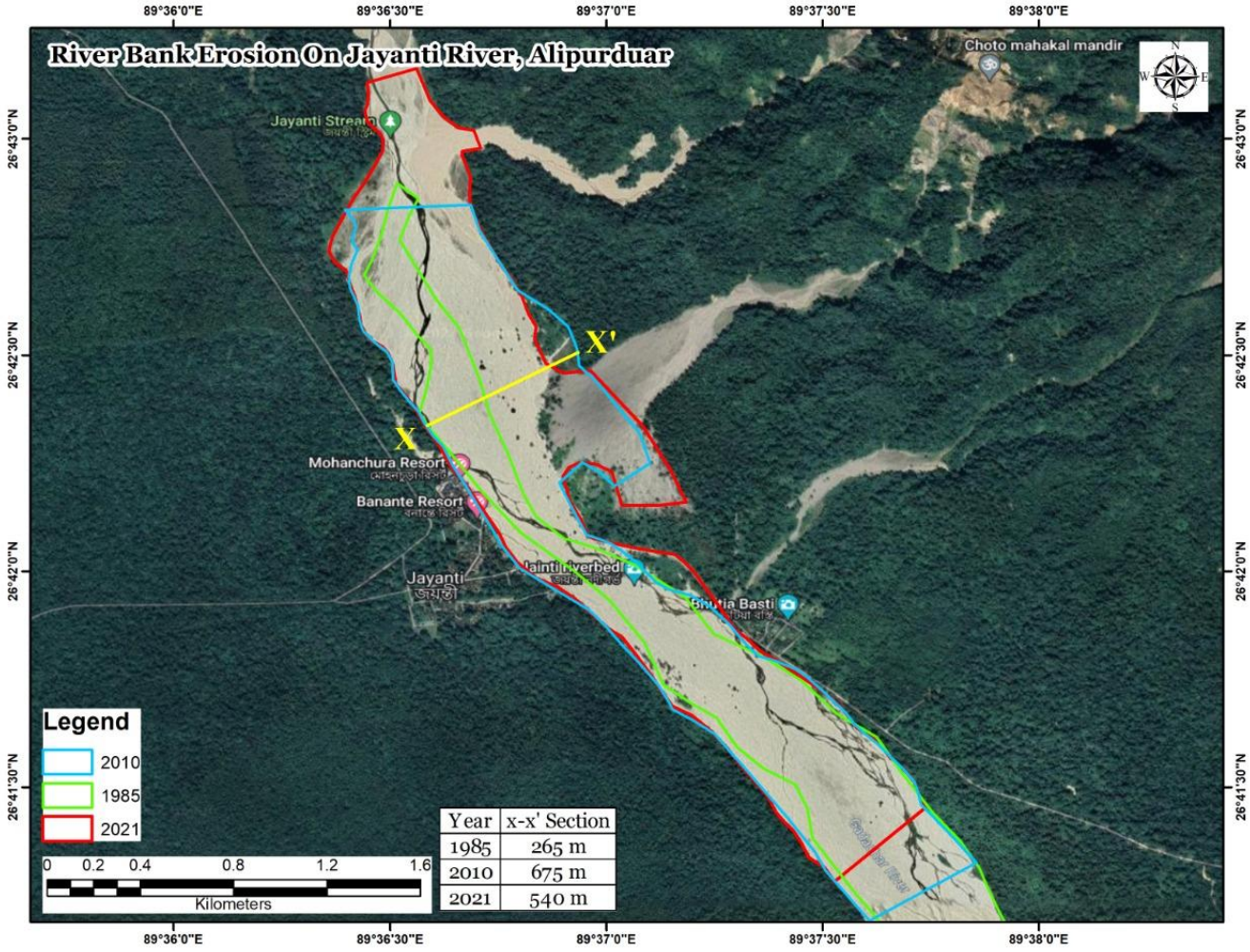


Plate 5B: Map showing long-term (10-year or more) erosion-accretion areas on both the banks of Jayanti River, Alipurduar*(Source: ISRO RESOURCE Sat 2 LISS III Sensor, Sept 2020)*



Annexure 1
Compliance as per Enforcement & Monitoring Guidelines for sand Mining, 2020 (MoEF& CC) for preparation of District Survey Report

Sl. No.	Particulars	Status
1	District Survey Report for sand mining shall be prepared before the auction/e-auction/grant of the mining lease/Letter of Intent (LoI) by Mining department or department dealing the mining activity in respective states.	Noted.
2	In order to make the inventory of River Bed Material, a detailed survey of the district needs to be carried out, to identify the source of River Bed Material and alternative source of sand (M-Sand). The source will include rivers, de-siltation of reservoir/dams, Patta lands/Khatedari Land, M-sand etc.	Complied with and explained in Chapter 7 pg no 52 to 99.
3	District Survey Report is to be prepared in such a way that it not only identifies the mineral-bearing area but also define the mining and no mining zones considering various environmental and social factors.	Complied with and furnished in pg no 95-96.
4	Identification of the source of Sand & M-Sand. The sources may be from Rivers, Lakes, Ponds, Dams, De-silting locations, Patta land/Khtedari lands. The details in case of Rivers such as [name, length of river, type (Perennial or Non-Perennial), Villages, Tehsil, District], in case of Lakes, Ponds, Dams, De-silting locations [Name, owned/maintained by (State Govt./PSU), area, Villages, Tehsil, District] in case of Patta land/Khtedari lands [Owner Name, Sy No, Area, Agricultural/Non-Agricultural, Villages, Tehsil, District], in case of M-Sand Plant [Owner Name, Sy No, Area, Quantity/Annum, Villages, Tehsil, District], needs to be recorded .	Complied with and given in table 7.5 pg 75.
5	Defining the sources of Sand/M-Sand in the district is the next step for identification of the potential area of deposition/aggradation wherein mining lease could be granted. Detailed survey needs to be carried out for quantification of minerals. The purpose of mining in the river bed is for channelization of rivers so as to avoid the possibility of flooding and to maintain the flow of the rivers. For this, the entire river stretch needs to be surveyed and original ground level (OGL) to be recorded and area of aggradation/deposition needs to be ascertained by comparing the level difference between the outside riverbed OGL and water level. Once the area of aggradation/deposition is identified, then the quantity of River Bed Material available needs to be calculated. The next step is channelization of the river bed and for this central ¾th part of the river, width needs to be identified on a map. Out of the	Complied with and given in table 7.11 pg 87 to 90.

Sl. No.	Particulars	Status
	¾th part area, where there is a deposition/aggradation of the material needs to be identified. The remaining ¼th area needs to be kept as no mining zone for the protection of banks. The specific gravity of the material also needs to be ascertained by analyzing the sample from a NABL accredited lab. Thus, the quantity of material available in metric ton needs to be calculated for mining and no mining zone.	
6	The permanent boundary pillars need to be erected after identification of an area of aggradation and deposition outside the bank of the river at a safe location for future surveying. The distance between boundary pillars on each side of the bank shall not be more than 100 meters.	Benchmark Pillars are established in strategic locations while boundary pillars will be fixed while fixation of the mining lease boundary subsequent to district level verification.
7	Identifying the mining and no mining zone shall follow with defining the area of sensitivity by ascertaining the distance of the mining area from the protected area, forest, bridges, important structures, habitation etc. and based on the sensitivity the area needs to be defined in sensitive and non-sensitive area.	Complied with and furnished in pg no 95-96.
8	Demand and supply of the Riverbed Material through market survey needs to be carried out. In addition to this future demand for the next 5 years also needs to be considered.	Complied with and given in pg no 11-12.
9	It is suggested that as far as possible the sensitive areas should be avoided for mining, unless local safety condition arises. Such deviation shall be temporary & shall not be a permanent feature.	Complied with and furnished in pg no 95-96.
10	Sand and gravel could be extracted from the downstream of the sand bar at river bends. Retaining the upstream one to two-thirds of the bar and riparian vegetation is accepted as a method to promote channel stability.	Noted. The DSR is compose of all the potential sand zones for defining the resources. In a subsequent phase blocking of potential zones shall be done in due consultation with the district level committee. The areas mentioned in the observation points shall be excluded while blocking of sand mining leases which are part of these potential zones marked in this DSR.
11	The final area selected for the mining should be then divided into mining lease as per the requirement of State Government. It is suggested the mining lease area should be so selected as to cover the entire deposition area. Dividing a large area of deposition/aggradation into smaller mining leases should be avoided as it leads to loss of mineral and indirectly promote illegal mining.	Shall be Complied with.

Sl. No.	Particulars	Status
12	Cluster situation shall be examined. A cluster is formed when one mining lease of homogenous mineral is within 500 meters of the other mining lease. In order to reduce the cluster formation mining lease size should be defined in such a way that distance between any two clusters preferably should not be less than 2.5 Km. Mining lease should be defined in such a way that the total area of the mining leases in a cluster should not be more than 10 Ha.	Noted. Due care will be taken while distribution of mining leases either to prevent cluster situation or keeping the prescribed distance inbetween two mining clusters.
13	The number of a contiguous cluster needs to be ascertained. Contiguous cluster is formed when one cluster is at a distance of 2.5 Km from the other cluster.	Noted and shall be complied with.
14	The mining outside the riverbed on Patta land/Khatedari land be granted when there is possibility of replenishment of material. In case, there is no replenishment then mining lease shall only be granted when there is no riverbed mining possibility within 5 KM of the Patta land/Khatedari land. For government projects, mining could be allowed on Patta land/Khatedari land but the mining should only be done by the Government agency and material should not be used for sale in the open market. Cluster situation as mentioned in para k above is also applicable for the mining in Patta land/Khatedari land.	Noted.
15	The State Government should define the transportation route from the mining lease considering the maximum production from the mines as at this stage the size of mining leases, their location, the quantity of mineral that can be mined safely etc. is available with the State Government. It is suggested that the transportation route should be selected in such a way that the movement of trucks/tippers/tractors from the villages having habitation should be avoided. The transportation route so selected should be verified by the State Government for its carrying capacity.	Noted and final transport route will be submitted during preparation of mine plan.
16	Potential site for mining having its impact on the forest, protected area, habitation, bridges etc, shall be avoided. For this, a sub-divisional committee may be formed which after the site visit shall decide its suitability for mining.	Shall be Complied with.

Sl. No.	Particulars	Status
17	Public consultation-The Comments of the various stakeholders may be sought on the list of mining lease to be auctioned. The State Government shall give an advertisement in the local and national newspaper for seeking comments of the general public on the list of mining lease included in the DSR. The DSR should be placed in the public domain for at least one month from the date of publication of the advertisement for obtaining comments of the general public. The comments so received shall be placed before the sub-divisional committee for active consideration. The final list of sand mining areas [leases to be granted on riverbed &Patta land/Khatedari land, de-siltation location (ponds/lakes/dams), M-Sand Plants (alternate source of sand)] after the public hearing needs to be defined in the final DSR.	After publication of the West Bengal Sand Mining Policy, 2021, it is now eminent that State owned The West Bengal Mineral Development and Trading Corporation Limited (WBMDTCL) shall be responsible for mining of sand/ gravel/ river bed materials in whole state of West Bengal. However, the existing mining leases which were in effect before hand of this Gazzate notification July 2021 will be in operation till the year 2027-28. In order to have the rational distribution of mining leases as per the prevailing norms and guidelines grant of mining leases in the state of West Bengal shall be carried out in phases till all the blocks are under the ambit of WBMDTCL. This DSR thus consist of the identified potential sand deposite areas within which the existing and future mining leases shall occur. The details of the mining leases as and when granted shall follow the procedure described in EMGSM 2020 and prevailing norms.
18	The LOI should not be granted for mining area falling on both riverbed and outside riverbed. Therefore, in the same lease, both types of area should not be included.	Shall be Complied with.



Annexure 2

Estimation of sand resources based on sediment load comparison between pre- and post-monsoon period of Alipurduar district

Abbreviation used in the table as below

Particulars	Code	Details	Particulars	Code	Details
PERIOD	PO	POST MONSOON	RIVER	RD	RAIDAK
PERIOD	PR	PRE MONSOON	RIVER	RDl	RAIDAKl
DISTRICT	AD	ALIPURDUAR	RIVER	KJ	KALJANI
BLOCK	MD	MADARIHAT	RIVER	JV	JAYANTI
BLOCK	KC	KALCHINI	RIVER	TL	TITLI
BLOCK	ADl	ALIPURDUAR-1	RIVER	TT	TURTURI
BLOCK	AD2	ALIPURDUAR-11	RIVER	DL	DHOLWA
BLOCK	KG	KUMARGRAM	RIVER	PG	PAGLI
RIVER	AG	AGRABHASA	RIVER	BG	BANGRI
RIVER	TR	TORSHA	RIVER	GJ	GORBORJYOTI
RIVER	SK	SANKOSH	RIVER	JK	JOGIKHOLA

Pre monsoon						Post monsoon					
S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum	S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum
Estimation of Sand Resources in Pre monsoon period & Post monsoon period in sand bar regions of Angabasha River											
1	PR_AD_MD_AG_01	122.9	1921564	2	3.84	1	PO_AD_MD_AG_01	123	2029049	2.1	4.26
Estimation of Sand Resources in Pre monsoon period & Post monsoon period in sand bar regions of Murti River											
1	PR_AD_MD_MR_01	135.8	1056248	2	2.11	1	PO_AD_MD_MR_01	136	1427940	2.2	3.14
						2	PO_AD_MD_MR_02	136	64391	2.2	0.14
Estimation of Sand Resources in Pre monsoon period & Post monsoon period in sand bar regions of Pagli River											
1	PR_AD_MD_PG_01	151.7	3056731	2	6.11	1	PO_AD_MD_PG_01	152	3012235	2.3	6.93
						2	PO_AD_MD_PG_01A	152	49662	2.3	0.11

Pre monsoon						Post monsoon					
Estimation of Sand Resources in Pre monsoon period & Post monsoon period in sand bar regions of Sukna River											
1	PR_AD_MD_SU_01	107	204788.4	1	0.2	1	PO_AD_MD_SU_01	107	0	1	0
Estimation of Sand Resources in Pre monsoon period & Post monsoon period in sand bar regions of Bangri River											
1	PR_AD_MD_BG_01	208.3	101835	1.5	0.15	1	PO_AD_MD_BG_01	209	296725	2.2	0.65
Estimation of Sand Resources in Pre monsoon period & Post monsoon period in sand bar regions of Titli River											
1	PR_AD_MD_TL_01	15.9	3030384	1	3.03	1	PO_AD_MD_TL_01	197	1566348	2.1	3.29
Estimation of Sand Resources in Pre monsoon period & Post monsoon period in sand bar regions of Torsha River											
1	PR_AD_KC_TR_01	174.8	219169.9	2.8	0.61	1	PO_AD_KC_TR_01	175	219170	3	0.66
2	PR_AD_KC_TR_02	174.8	475908.3	2.8	1.33	2	PO_AD_KC_TR_02	175	618175	3	1.85
3	PR_AD_KC_TR_03	169.8	3504168	2.8	9.81	3	PO_AD_KC_TR_03_05	170	3891759	3	11.68
4	PR_AD_KC_TR_04	168.8	80303.42	2.8	0.22	4	PO_AD_KC_TR_04	169	66647	3	0.20
5	PR_AD_KC_TR_05	168.8	461304.7	2.8	1.29	5	PO_AD_KC_TR_05	169	233979	3	0.70
6	PR_AD_KC_TR_06	155.8	151799.5	2.8	0.43	6	PO_AD_KC_TR_06	156	151800	3	0.46
7	PR_AD_KC_TR_07	147.8	161920.7	2.8	0.45	7	PO_AD_KC_TR_07	148	161921	3	0.49
8	PR_AD_KC_TR_08	147.8	3800761	2.8	10.64	8	PO_AD_KC_TR_08	148	3796670	3	11.39
9	PR_AD_KC_TR_09	136.8	185769	2.8	0.52	9	PO_AD_KC_TR_09	137	185769	3	0.56
10	PR_AD_KC_TR_10	134.8	102011.9	2.8	0.29	10	PO_AD_KC_TR_10	135	102012	3	0.31
11	PR_AD_MD_TR_11	133.8	1768067	2.8	4.95	11	PO_AD_MD_TR_11	134	160554	3	0.48
12	PR_AD_KC_TR_12	134.8	171651.1	2.8	0.48	12	PO_AD_KC_TR_12_14	135	279691	3	0.84
13	PR_AD_KC_TR_13	134.8	284187.8	2.8	0.8	13	PO_AD_KC_TR_13_14	135	404834	3	1.21
14	PR_AD_KC_TR_14	134.8	158907.9	2.8	0.44			135			
15	PR_AD_KC_TR_15	134.8	88112.42	2.8	0.25	14	PO_AD_KC_TR_15	135	126972	3	0.38
16	PR_AD_KC_TR_16	134.8	456195.6	2.8	1.28	15	PO_AD_KC_TR_16_17	135	595826	3	1.79
17	PR_AD_KC_TR_17	134.8	31806.29	2.8	0.09						
18	PR_AD_KC_TR_18	128.8	22596.18	2.8	0.06	16	PO_AD_KC_TR_18	129	39669	3	0.12

Pre monsoon						Post monsoon					
19	PR_AD_KC_TR_19	126.8	438077.7	2.8	1.23	17	PO_AD_KC_TR_19	127	438078	3	1.31
20	PR_AD_KC_TR_20	124.8	160117.4	2.8	0.45	20	PO_AD_KC_TR_20	125	0	3	0.00
21	PR_AD_KC_TR_21	119.8	759437.4	2.8	2.13	21	PO_AD_KC_TR_21	120	773908	3	2.32
22	PR_AD_KC_TR_22	114.8	53691.77	2.8	0.15	22	PO_AD_KC_TR_22	115	30481	3	0.09
23	PR_AD_KC_TR_23	110.8	200946.1	2.8	0.56	23	PO_AD_KC_TR_23	111	155664	3	0.47
24	PR_AD_KC_TR_24	108.8	712391.9	2.8	1.99	24	PO_AD_KC_TR_24	109	332089	3	1.00
25	PR_AD_KC_TR_25	104.8	390693.2	2.8	1.09	25	PO_AD_KC_TR_25_24_27	105	780601	3	2.34
26	PR_AD_KC_TR_26	99.8	98891.16	2.8	0.28	26	PO_AD_KC_TR_26_27_28_29	100	2324030	3	6.97
27	PR_AD_KC_TR_27	99.8	1520411	2.8	4.26						
28	PR_AD_KC_TR_28	99.8	256090.6	2.8	0.72						
29	PR_AD_KC_TR_29	99.8	56318.25	2.8	0.16						
30	PR_AD_KC_TR_30	88.8	94382	2.8	0.26	27	PO_AD_KC_TR_30	89	62732	3	0.19
31	PR_AD_KC_TR_31	88.8	37139.41	2.8	0.1	28	PO_AD_KC_TR_31	89	35706	3	0.11
32	PR_AD_KC_TR_32	88.8	336232.9	2.8	0.94	29	PO_AD_KC_TR_32	89	404302	3	1.21
33	PR_AD_KC_TR_33	85.8	437205.5	2.8	1.22	30	PO_AD_KC_TR_33	86	214907	3	0.64
34	PR_AD_KC_TR_34	84.8	510890.9	2.8	1.43	31	PO_AD_KC_TR_34_35	85	509110	3	1.53
35	PR_AD_KC_TR_35	84.8	83786.78	2.8	0.23	32	PO_AD_KC_TR_35_34	85	121661	3	0.36
36	PR_AD_AD1_TR_36	77.8	281728.8	2.8	0.79	33	PO_AD_AD1_TR_36_34	78	388995	3	1.17
37	PR_AD_AD1_TR_37	77.8	54127.79	2.8	0.15	34	PO_AD_AD1_TR_37	78	0	3	0.00
38	PR_AD_AD1_TR_38	74.8	29527.39	2.8	0.08	35	PO_AD_AD1_TR_38	75	0	3	0.00
39	PR_AD_AD1_TR_39	74.8	42361.2	2.8	0.12	36	PO_AD_AD1_TR_39	75	0	3	0.00
40	PR_AD_KC_TR_40	74.8	28983.06	2.8	0.08	37	PO_AD_KC_TR_40	75	28983	3	0.09
41	PR_AD_AD1_TR_41	74.8	112656.2	2.8	0.32	38	PO_AD_AD1_TR_41	75	112656	3	0.34
42	PR_AD_AD1_TR_42	74.8	176877.5	2.8	0.5	39	PO_AD_AD1_TR_42	75	176877	3	0.53
43	PR_AD_AD1_TR_43	74.8	133272.8	2.8	0.37	40	PO_AD_AD1_TR_43	75	98797	3	0.30



Pre monsoon						Post monsoon					
44	PR_AD_AD1_TR_44	72.8	205009.3	2.8	0.57	41	PO_AD_AD1_TR_44	73	103869	3	0.31
45	PR_AD_AD1_TR_45	69.8	51320.39	2.8	0.14	42	PO_AD_AD1_TR_45_44	70	95496	3	0.29
46	PR_AD_AD1_TR_46	69.8	42521.42	2.8	0.12	43	PO_AD_AD1_TR_46_45	70	56525	3	0.17
47	PR_AD_AD1_TR_47	69.8	216811.3	2.8	0.61	44	PO_AD_AD1_TR_47_46	70	218088	3	0.65
48	PR_AD_AD1_TR_48	69.8	125221.8	2.8	0.35	45	PO_AD_AD1_TR_48_49_50_51_47	70	703991	3	2.11
49	PR_AD_AD1_TR_49	69.8	30308.5	2.8	0.08						
50	PR_AD_AD1_TR_50	69.8	154650.4	2.8	0.43						
51	PR_AD_AD1_TR_51	69.8	69031.56	2.8	0.19						
52	PR_AD_AD1_TR_52	64.8	310733.6	2.8	0.87	46	PO_AD_AD1_TR_52	65	316252	3	0.95
53	PR_AD_AD1_TR_53	63.8	140768.8	2.8	0.39	47	PO_AD_AD1_TR_53	64	162889	3	0.49
54	PR_AD_AD1_TR_54	61.8	234263.7	2.8	0.66	48	PO_AD_AD1_TR_54	62	158319	3	0.47
55	PR_AD_AD1_TR_55	59.8	311104.7	2.8	0.87	49	PO_AD_AD1_TR_55_54	60	468431	3	1.41
56	PR_AD_AD1_TR_56	57.8	318871.1	2.8	0.89	50	PO_AD_AD1_TR_56	58	218843	3	0.66
57	PR_AD_AD1_TR_57	56.8	254240.7	2.8	0.71	51	PO_AD_AD1_TR_57	57	267956	3	0.80
58	PR_AD_AD1_TR_58	56.8	129401	2.8	0.36	52	PO_AD_AD1_TR_58	57	203232	3	0.61
59	PR_AD_AD1_TR_59	56.8	194962.9	2.8	0.55	53	PO_AD_AD1_TR_59	57	25735	3	0.08
60	PR_AD_AD1_TR_60	56.8	416109.1	2.8	1.17	54	PO_AD_AD1_TR_60	57	478809	3	1.44
61	PR_AD_AD1_TR_61	54.8	373062.3	2.8	1.04	55	PO_AD_AD1_TR_61_62_59	55	584365	3	1.75
62	PR_AD_AD1_TR_62	54.8	67401.32	2.8	0.19			55			
63	PR_AD_AD1_TR_63	54.8	98755.74	2.8	0.28	56	PO_AD_AD1_TR_63	55	111266	3	0.33
64	PR_AD_AD1_TR_64	53.8	507971.8	2.8	1.42	57	PO_AD_AD1_TR_64	54	0	3	0
65	PR_AD_AD1_TR_65	51.8	265601.9	2.8	0.74	58	PO_AD_AD1_TR_65	52	237011	3	0.71
66	PR_AD_AD1_TR_66	51.8	82543.32	2.8	0.23	59	PO_AD_AD1_TR_66	52	87133	3	0.26
Estimation of Sand Resources in Pre monsoon period & Post monsoon period in sand bar regions of Goborjyoti River											
1	PR_AD_KC_GJ_01	190.5	51599.3	2	0.10	1	PO_AD_KC_GJ_01	191	62837.14	2.5	0.16

Pre monsoon						Post monsoon					
Estimation of Sand Resources in Pre monsoon period & Post monsoon period in sand bar regions of Jogikhola River											
1	PR_AD_KC_JK_01	232	69471	2	0.14	1	PO_AD_KC_JK_01	232	0	2	0
Estimation of Sand Resources in Pre monsoon period & Post monsoon period in sand bar regions of Kaljani River											
1	PR_AD_KC_KJ_01	204.8	10036362	2.8	28.1	1	PO_AD_KC_KJ_01	205	9933563.969	3	29.80
2	PR_AD_KC_KJ_02	199.8	347127.4	2.8	0.97	2	PO_AD_KC_KJ_02	200	347127.4198	3	1.04
3	PR_AD_KC_KJ_03	199.8	1826481	2.8	5.11	3	PO_AD_KC_KJ_03	200	1962184.937	3	5.89
4	PR_AD_KC_KJ_04	156.8	1716393	2.8	4.81	4	PO_AD_KC_KJ_04	157	1844810.125	3	5.53
5	PR_AD_KC_KJ_05	96.8	415409.8	2.8	1.16	5	PO_AD_KC_KJ_05	97	662879.6619	3	1.99
6	PR_AD_KC_KJ_06	87.8	220990.3	2.8	0.62	6	PO_AD_KC_KJ_06_07	88	299406.1831	3	0.90
7	PR_AD_KC_KJ_07	87.8	50561.93	2.8	0.14						
8	PR_AD_KC_KJ_08	87.8	182110.1	2.8	0.51	7	PO_AD_KC_KJ_08	88	182110.0899	3	0.55
9	PR_AD_KC_KJ_09	87.8	880150.2	2.8	2.46	8	PO_AD_KC_KJ_09	88	880150.2254	3	2.64
10	PR_AD_KC_KJ_10	84.8	122591	2.8	0.34	9	PO_AD_KC_KJ_10	85	113747.2699	3	0.34
11	PR_AD_KC_KJ_11	79.8	57310.81	2.8	0.16	10	PO_AD_KC_KJ_11	80	35218.7153	3	0.11
12	PR_AD_KC_KJ_12	78.8	41237.1	2.8	0.12	11	PO_AD_KC_KJ_12	79	30272.09892	3	0.09
13	PR_AD_KC_KJ_13	74.8	42691.88	2.8	0.12	12	PO_AD_KC_KJ_13	75	0	3	0.00
14	PR_AD_KC_KJ_14	69.8	274454.3	2.8	0.77	13	PO_AD_KC_KJ_14	70	264521.0343	3	0.79
15	PR_AD_KC_KJ_15	67.8	114680.7	2.8	0.32	14	PO_AD_KC_KJ_15	68	56970.71875	3	0.17
16	PR_AD_KC_KJ_16	64.8	73242.33	2.8	0.21	15	PO_AD_KC_KJ_16_17	65	269269.7311	3	0.81
17	PR_AD_KC_KJ_17	67.8	173436.5	2.8	0.49			65			
18	PR_AD_KC_KJ_18	64.8	93844.47	2.8	0.26	16	PO_AD_KC_KJ_18_19	65	164891.3811	3	0.49
19	PR_AD_KC_KJ_19	67.8	67928.22	2.8	0.19			65			
20	PR_AD_AD1_KJ_20	0	1538.22	2.8	0	17	PO_AD_AD1_KJ_20	65	0	3	0.00
21	PR_AD_KC_KJ_21	64.8	76873.82	2.8	0.22	18	PO_AD_KC_KJ_21	65	43872.70355	3	0.13
22	PR_AD_KC_KJ_22	62.8	165065.6	2.8	0.46	19	PO_AD_KC_KJ_22	63	89917.04357	3	0.27

Pre monsoon						Post monsoon					
23	PR_AD_AD1_KJ_23	59.8	32619.51	2.8	0.09	20	PO_AD_AD1_KJ_23	60	25143.20894	3	0.08
24	PR_AD_AD1_KJ_24	57.8	187787.4	2.8	0.53	21	PO_AD_AD1_KJ_24	58	200098.3817	3	0.60
25	PR_AD_AD1_KJ_25	57.8	123595.9	2.8	0.35	22	PO_AD_AD1_KJ_25	58	89538.80801	3	0.27
26	PR_AD_AD1_KJ_26	57.8	71261.39	2.8	0.2	23	PO_AD_AD1_KJ_26	58	51603.73627	3	0.15
27	PR_AD_AD1_KJ_27	55.8	201034.4	2.8	0.56	24	PO_AD_AD1_KJ_27	56	179098.0324	3	0.54
28	PR_AD_AD1_KJ_28	54.8	136190.9	2.8	0.38	25	PO_AD_AD1_KJ_28	55	0	3	0.00
29	PR_AD_AD1_KJ_29	51.8	156188.1	2.8	0.44	26	PO_AD_AD1_KJ_29_30	52	214079.1906	3	0.64
30	PR_AD_AD1_KJ_30	51.8	53076.48	2.8	0.15						
31	PR_AD_AD1_KJ_31	49.8	32699.97	2.8	0.09	27	PO_AD_AD1_KJ_31	50	0	3	0.00
32	PR_AD_AD1_KJ_32	48.8	40519.79	2.8	0.11	28	PO_AD_AD1_KJ_32	49	0	3	0.00
33	PR_AD_AD1_KJ_33	47.8	41354.07	2.8	0.12	29	PO_AD_AD1_KJ_33	48	41354.07372	3	0.12
34	PR_AD_AD1_KJ_34	47.8	131882.8	2.8	0.37	30	PO_AD_AD1_KJ_34	48	131882.7744	3	0.40
35	PR_AD_AD1_KJ_35	47.8	50588.84	2.8	0.14	31	PO_AD_AD1_KJ_35	48	50588.83886	3	0.15
36	PR_AD_AD1_KJ_36	47.8	93456.17	2.8	0.26	32	PO_AD_AD1_KJ_36	48	71426.72155	3	0.21
37	PR_AD_AD1_KJ_37	45.8	72339.27	2.8	0.2	33	PO_AD_AD1_KJ_37	46	72339.27438	3	0.22
38	PR_AD_AD1_KJ_38	44.8	33243.79	2.8	0.09	34	PO_AD_AD1_KJ_38	45	33243.79409	3	0.10
39	PR_AD_AD1_KJ_39	44.8	67607.66	2.8	0.19	35	PO_AD_AD1_KJ_39	45	67607.6621	3	0.20
40	PR_AD_AD1_KJ_40	43.8	50160.23	2.8	0.14	36	PO_AD_AD1_KJ_40	44	39105.13609	3	0.12
41	PR_AD_AD1_KJ_41	43.8	77542.84	2.8	0.22	37	PO_AD_AD1_KJ_41	44	77542.83532	3	0.23
42	PR_AD_AD1_KJ_42	43.8	77590.28	2.8	0.22	38	PO_AD_AD1_KJ_42	44	113069.4258	3	0.34
43	PR_AD_AD1_KJ_43	43.8	104281.5	2.8	0.29	39	PO_AD_AD1_KJ_43	44	104281.494	3	0.31
44	PR_AD_AD1_KJ_44	43.8	52207.77	2.8	0.15	40	PO_AD_AD1_KJ_44	44	52207.77412	3	0.16
45	PR_AD_AD1_KJ_45	43.8	33205.17	2.8	0.09	41	PO_AD_AD2_KJ_45_46	44	118289.7069	3	0.35
46	PR_AD_AD2_KJ_46	43.8	86877.33	2.8	0.24						
47	PR_AD_AD2_KJ_47	41.8	90985.85	2.8	0.25	42	PO_AD_AD2_KJ_47	42	90985.84506	3	0.27

Pre monsoon						Post monsoon					
48	PR_AD_AD2_KJ_48	41.8	40975.09	2.8	0.11	43	PO_AD_AD2_KJ_48	42	40975.09116	3	0.12
49	PR_AD_AD2_KJ_49	40.8	72007.16	2.8	0.2	44	PO_AD_AD2_KJ_49	41	72007.16441	3	0.22
50	PR_AD_AD2_KJ_50	38.8	87983.84	2.8	0.25	45	PO_AD_AD2_KJ_50	39	87983.8352	3	0.26
51	PR_AD_AD2_KJ_51	38.8	156333.5	2.8	0.44	46	PO_AD_AD2_KJ_51	39	98618.34604	3	0.30
Estimation of Sand Resources in Pre monsoon period & Post monsoon period in sand bar regions of Jayanti River											
1	PR_AD_KG_JY_01	193.5	1194843	2.5	2.99	1	PO_AD_KG_JY_01	194	1225534	3	3.68
2	PR_AD_KC_JY_02	124.5	1041583	2.5	2.60	2	PO_AD_KC_JY_02	125	1143291	3	3.43
3	PR_AD_AD2_JY_03	79.5	1376744	2.5	3.44	3	PO_AD_AD2_JY_03	80	889107	3	2.67
Estimation of Sand Resources in Pre monsoon period & Post monsoon period in sand bar regions of Turturi River											
1	PR_AD_AD2_TT_01	79	26181.73	2	0.05	1	PO_AD_AD2_TT_01	79	0	2	0
Estimation of Sand Resources in Pre monsoon period & Post monsoon period in sand bar regions of Dholwa River											
1	PR_AD_KG_DL_01	88	14421	2	0.03	1	PO_AD_KG_DL_01	89	0	3	0.00
2	PR_AD_AD2_DL_02	77	11389.9	2	0.02	2	PO_AD_AD2_DL_02	78	0	3	0.00
3	PR_AD_AD2_DL_03	58	52389.48	2	0.10	3	PO_AD_AD2_DL_03	59	38591	3	0.12
4	PR_AD_KG_DL_04	51	14013.03	2	0.03	4	PO_AD_KG_DL_04	52	0	3	0.00
5	PR_AD_KG_DL_05	47	19652.53	2	0.04	5	PO_AD_KG_DL_05	48	39654	3	0.12
Estimation of Sand Resources in Pre monsoon period & Post monsoon period in sand bar regions of Raidak 1 River											
1	PR_AD_KG_RD1_01	48.9	49750.75	2.9	0.14	1	PO_AD_KG_RD1_01	49	49750.75	3	0.15
2	PR_AD_KG_RD1_02	47.9	47306.01	2.9	0.14	2	PO_AD_KG_RD1_02	48	58535.34	3	0.18
3	PR_AD_KG_RD1_03	46.9	17936.54	2.9	0.05	3	PO_AD_KG_RD1_03	47	17936.54	3	0.05
4	PR_AD_KG_RD1_04	46.9	72522.67	2.9	0.21	4	PO_AD_KG_RD1_04	47	72522.67	3	0.22
Estimation of Sand Resources in Pre monsoon period & Post monsoon period in sand bar regions of Raidak 2 River											
1	PR_AD_KG_RD2_01	112.9	414953.3	2.9	1.2	1	PO_AD_KG_RD2_01	113	434034	3	1.30
2	PR_AD_KG_RD2_02	109.9	3290182	2.9	9.54	2	PO_AD_KG_RD2_02	110	3268076	3	9.80
3	PR_AD_KG_RD2_03	108.9	103376.1	2.9	0.3	3	PO_AD_KG_RD2_03	109	114361	3	0.34

Pre monsoon						Post monsoon					
4	PR_AD_KG_RD2_04	104.9	502466.9	2.9	1.46	4	PO_AD_KG_RD2_04	105	502467	3	1.51
5	PR_AD_KG_RD2_05	96.9	190975.6	2.9	0.55	5	PO_AD_KG_RD2_05	97	159073	3	0.48
6	PR_AD_KG_RD2_06	95.9	250961.8	2.9	0.73	6	PO_AD_KG_RD2_06	96	250962	3	0.75
7	PR_AD_KG_RD2_07	92.9	862972.2	2.9	2.5	7	PO_AD_KG_RD2_07	93	862972	3	2.59
8	PR_AD_KG_RD2_08	87.9	90987.99	2.9	0.26	8	PO_AD_KG_RD2_08	88	89547	3	0.27
9	PR_AD_KG_RD2_09	84.9	113396.6	2.9	0.33	9	PO_AD_KG_RD2_09	85	113397	3	0.34
10	PR_AD_KG_RD2_10	81.9	118154.7	2.9	0.34	10	PO_AD_KG_RD2_10	82	0	3	0.00
11	PR_AD_KG_RD2_10A	80.9	0	2.9	0	11	PO_AD_KG_RD2_10A	81	27050	3	0.08
12	PR_AD_KG_RD2_11	76.9	1297386	2.9	3.76	12	PO_AD_KG_RD2_11	77	1240856	3	3.72
13	PR_AD_KG_RD2_12	76.9	582772.9	2.9	1.69	13	PO_AD_KG_RD2_12	77	557969	3	1.67
14	PR_AD_KG_RD2_13	74.9	448609.8	2.9	1.3	14	PO_AD_KG_RD2_13	75	408468	3	1.23
15	PR_AD_KG_RD2_14	70.9	471580.8	2.9	1.37	15	PO_AD_KG_RD2_14_11	71	1094230	3	3.28
16	PR_AD_KG_RD2_15	70.9	964866	2.9	2.8	16	PO_AD_KG_RD2_15	71	702971	3	2.11
17	PR_AD_KG_RD2_16	68.9	376235.7	2.9	1.09	17	PO_AD_KG_RD2_16	69	338329	3	1.01
18	PR_AD_KG_RD2_17	67.9	30561.39	2.9	0.09	18	PO_AD_KG_RD2_17	68	38715	3	0.12
19	PR_AD_KG_RD2_18	67.9	344359.8	2.9	1	19	PO_AD_KG_RD2_18	68	450022	3	1.35
20	PR_AD_KG_RD2_19	64.9	428623.8	2.9	1.24	20	PO_AD_KG_RD2_19_21_15	65	748541	3	2.25
21	PR_AD_KG_RD2_20	64.9	111641	2.9	0.32	21	PO_AD_KG_RD2_20	65	111641	3	0.33
22	PR_AD_KG_RD2_21	61.9	419772.6	2.9	1.22	22	PO_AD_KG_RD2_21	62	297433	3	0.89
23	PR_AD_KG_RD2_22	59.9	74292.4	2.9	0.22	23	PO_AD_KG_RD2_22	60	0	3	0.00
24	PR_AD_KG_RD2_23	58.9	802868.1	2.9	2.33	24	PO_AD_KG_RD2_23	59	787340	3	2.36
25	PR_AD_KG_RD2_24	58.9	428847.4	2.9	1.24	25	PO_AD_KG_RD2_24	59	371345	3	1.11
26	PR_AD_KG_RD2_25	58.9	392415.5	2.9	1.14	26	PO_AD_KG_RD2_25_23	59	465349	3	1.40
27	PR_AD_KG_RD2_26	58.9	269711.4	2.9	0.78	27	PO_AD_KG_RD2_26	59	197724	3	0.59
28	PR_AD_KG_RD2_27	57.9	70035.98	2.9	0.2	28	PO_AD_KG_RD2_27	58	70036	3	0.21

Pre monsoon						Post monsoon					
29	PR_AD_KG_RD2_28	57.9	87075.25	2.9	0.25	29	PO_AD_KG_RD2_28	58	73843	3	0.22
30	PR_AD_KG_RD2_29	57.9	74954.53	2.9	0.22	30	PO_AD_KG_RD2_29	58	31784	3	0.10
31	PR_AD_KG_RD2_30	55.9	124342.2	2.9	0.36	31	PO_AD_KG_RD2_30	56	103267	3	0.31
32	PR_AD_KG_RD2_31	54.9	980555.3	2.9	2.84	32	PO_AD_KG_RD2_31	55	978255	3	2.93
33	PR_AD_KG_RD2_32	54.9	175809.6	2.9	0.51	33	PO_AD_KG_RD2_32	55	222390	3	0.67
34	PR_AD_KG_RD2_33	53.9	719882.7	2.9	2.09	34	PO_AD_KG_RD2_33	54	694820	3	2.08
35	PR_AD_KG_RD2_34	52.9	55975.69	2.9	0.16	35	PO_AD_KG_RD2_34	53	34464	3	0.10
36	PR_AD_KG_RD2_35	48.9	413677.4	2.9	1.2	36	PO_AD_KG_RD2_35	49	429317	3	1.29
37	PR_AD_KG_RD2_36	48.9	74795.56	2.9	0.22	37	PO_AD_KG_RD2_36	49	74796	3	0.22
38	PR_AD_KG_RD2_37	48.9	336941	2.9	0.98	38	PO_AD_KG_RD2_37	49	226798	3	0.68
39	PR_AD_KG_RD2_38	44.9	1130772	2.9	3.28	39	PO_AD_KG_RD2_38	45	1131847	3	3.40
40	PR_AD_KG_RD2_39	43.9	115239.6	2.9	0.33	40	PO_AD_KG_RD2_39	44	115240	3	0.35
41	PR_AD_KG_RD2_40	43.9	384746.3	2.9	1.12	41	PO_AD_KG_RD2_40	44	215589	3	0.65
Estimation of Sand Resources in Pre monsoon period & Post monsoon period in sand bar regions of Sankosh River											
1	PR_AD_KG_SK_01	69.9	20473.78	2.9	0.06	1	PO_AD_KG_SK_01	70	11180	3	0.03
2	PR_AD_KG_SK_02	67.9	25665.24	2.9	0.07	2	PO_AD_KG_SK_02	68	12756	3	0.04
3	PR_AD_KG_SK_03	65.9	556782.9	2.9	1.61	3	PO_AD_KG_SK_03	66	556783	3	1.67
4	PR_AD_KG_SK_04	65.9	38471.34	2.9	0.11	4	PO_AD_KG_SK_04	66	0	3	0.00
5	PR_AD_KG_SK_05	64.9	132033.1	2.9	0.38	5	PO_AD_KG_SK_05	65	132033	3	0.40
6	PR_AD_KG_SK_06	63.9	34958.56	2.9	0.1	6	PO_AD_KG_SK_06	64	25286	3	0.08
7	PR_AD_KG_SK_07	61.9	22851.67	2.9	0.07	7	PO_AD_KG_SK_07	62	0	3	0.00
8	PR_AD_KG_SK_08	61.9	65449.03	2.9	0.19	8	PO_AD_KG_SK_08	62	65449	3	0.20
9	PR_AD_KG_SK_09	61.9	116568	2.9	0.34	9	PO_AD_KG_SK_09	62	102638	3	0.31
10	PR_AD_KG_SK_10	61.9	221186.4	2.9	0.64	10	PO_AD_KG_SK_10	62	221186	3	0.66
11	PR_AD_KG_SK_11	60.9	183744.5	2.9	0.53	11	PO_AD_KG_SK_11	61	183744	3	0.55



Pre monsoon						Post monsoon					
12	PR_AD_KG_SK_12	59.9	97013.52	2.9	0.28	12	PO_AD_KG_SK_12	60	97014	3	0.29
13	PR_AD_KG_SK_13	59.9	39385.58	2.9	0.11	13	PO_AD_KG_SK_13_14	60	184851	3	0.55
14	PR_AD_KG_SK_14	59.9	150926.2	2.9	0.44						
15	PR_AD_KG_SK_15	59.9	28782.16	2.9	0.08	14	PO_AD_KG_SK_15	60	28782	3	0.09
16	PR_AD_KG_SK_16	50.9	114734.1	2.9	0.33	15	PO_AD_KG_SK_16	51	114734	3	0.34
17	PR_AD_KG_SK_16A	0	0	2.9	0	16	PO_AD_KG_SK_16A	47	84435	3	0.25
18	PR_AD_KG_SK_17	44.9	463658.4	2.9	1.34	17	PO_AD_KG_SK_17	45	400683	3	1.20
19	PR_AD_KG_SK_18	43.9	242252.9	2.9	0.7	18	PO_AD_KG_SK_18	44	242253	3	0.73
20	PR_AD_KG_SK_19	0	0	2.9	0	19	PO_AD_KG_SK_19	42	16278	3	0.05
21	PR_AD_KG_SK_20	0	0	2.9	0	20	PO_AD_KG_SK_20	42	89399	3	0.27
22	PR_AD_KG_SK_21	0	0	2.9	0	21	PO_AD_KG_SK_21	42	37019	3	0.11
23	PR_AD_KG_SK_22	0	0	2.9	0	22	PO_AD_KG_SK_22	42	44228	3	0.13
24	PR_AD_KG_SK_23	0	0	2.9	0	23	PO_AD_KG_SK_23	42	54488	3	0.16
25	PR_AD_KG_SK_24	0	0	2.9	0	24	PO_AD_KG_SK_24	42	26159	3	0.08
Estimation of Sand Resources in Pre monsoon period & Post monsoon period in sand bar regions of Sankosh River											
1	PO_AD_MD_TL_01	44	3030384	1	3.03	1	PO_AD_MD_TL_01	45	1566348	2	3.13

Annexure 3

Boundary co-ordinates of Potential Blocks of Alipurduar District



Abbreviation used in the table as below

Particulars	Code	Details	Particulars	Code	Details
DISTRICT	AD	ALIPURDUAR	RIVER	RD	RAIDAK
BLOCK	MD	MADARIHAT	RIVER	RDl	RAIDAKl
BLOCK	KC	KALCHINI	RIVER	KJ	KALJANI
BLOCK	ADl	ALIPURDUAR-1	RIVER	JV	JAYANTI
BLOCK	AD2	ALIPURDUAR-11	RIVER	TL	TITLI
BLOCK	KG	KUMARGRAM	RIVER	TT	TURTURI
RIVER	AG	AGRABHASA	RIVER	DL	DHOLWA
RIVER	TR	TORSHA	RIVER	PG	PAGLI
RIVER	SK	SANKOSH	RIVER	BG	BANGRI
RIVER	JK	JOGIKHOLA	RIVER	GJ	GOBORJYOTI

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
AD_KG_SK_01	1	26° 36' 43.612" N	89° 51' 41.351" E
	2	26° 36' 43.283" N	89° 51' 40.145" E
	3	26° 36' 45.538" N	89° 51' 40.076" E
	4	26° 36' 49.064" N	89° 51' 41.026" E
	5	26° 36' 48.130" N	89° 51' 43.224" E
	6	26° 36' 46.912" N	89° 51' 42.718" E
	7	26° 36' 44.243" N	89° 51' 41.611" E
AD_KG_SK_02	1	26° 36' 34.832" N	89° 51' 33.960" E
	2	26° 36' 34.305" N	89° 51' 32.313" E
	3	26° 36' 37.728" N	89° 51' 33.898" E
	4	26° 36' 40.898" N	89° 51' 36.487" E
	5	26° 36' 44.618" N	89° 51' 38.491" E
	6	26° 36' 41.719" N	89° 51' 38.419" E
	7	26° 36' 38.006" N	89° 51' 36.056" E
	8	26° 36' 37.233" N	89° 51' 35.463" E
	9	26° 36' 35.653" N	89° 51' 35.400" E
AD_KG_SK_03	1	26° 36' 25.140" N	89° 51' 29.522" E
	2	26° 36' 20.156" N	89° 51' 26.291" E
	3	26° 36' 22.328" N	89° 51' 32.549" E
	4	26° 36' 21.410" N	89° 51' 32.576" E
	5	26° 36' 20.737" N	89° 51' 33.107" E
	6	26° 36' 20.084" N	89° 51' 33.743" E
	7	26° 36' 19.105" N	89° 51' 34.785" E
	8	26° 36' 16.733" N	89° 51' 35.382" E
	9	26° 36' 16.629" N	89° 51' 35.408" E
	10	26° 36' 14.415" N	89° 51' 35.966" E
	11	26° 36' 13.713" N	89° 51' 35.785" E
	12	26° 36' 12.773" N	89° 51' 36.369" E
	13	26° 36' 7.890" N	89° 51' 37.537" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	14	26° 36' 3.744" N	89° 51' 38.318" E
	15	26° 36' 3.139" N	89° 51' 38.480" E
	16	26° 36' 2.723" N	89° 51' 38.592" E
	17	26° 36' 1.802" N	89° 51' 38.356" E
	18	26° 36' 0.145" N	89° 51' 37.454" E
	19	26° 35' 57.711" N	89° 51' 36.677" E
	20	26° 35' 56.171" N	89° 51' 36.352" E
	21	26° 35' 51.696" N	89° 51' 34.520" E
	22	26° 35' 46.252" N	89° 51' 34.888" E
	23	26° 35' 43.286" N	89° 51' 38.160" E
	24	26° 35' 40.507" N	89° 51' 38.091" E
	25	26° 35' 39.321" N	89° 51' 37.953" E
	26	26° 35' 36.553" N	89° 51' 36.439" E
	27	26° 35' 35.060" N	89° 51' 35.924" E
	28	26° 35' 32.653" N	89° 51' 32.756" E
	29	26° 35' 30.483" N	89° 51' 31.698" E
	30	26° 35' 22.887" N	89° 51' 27.355" E
	31	26° 35' 28.577" N	89° 51' 27.292" E
	32	26° 35' 29.784" N	89° 51' 27.275" E
	33	26° 35' 36.595" N	89° 51' 29.032" E
	34	26° 35' 37.486" N	89° 51' 27.256" E
	35	26° 35' 38.552" N	89° 51' 27.272" E
	36	26° 35' 45.771" N	89° 51' 26.869" E
	37	26° 35' 47.929" N	89° 51' 26.694" E
	38	26° 35' 50.735" N	89° 51' 26.467" E
	39	26° 35' 58.292" N	89° 51' 25.101" E
	40	26° 36' 3.132" N	89° 51' 24.488" E
	41	26° 36' 3.732" N	89° 51' 24.514" E
	42	26° 36' 5.860" N	89° 51' 24.608" E
	43	26° 36' 3.166" N	89° 51' 28.209" E
	44	26° 36' 3.773" N	89° 51' 30.088" E
	45	26° 36' 7.195" N	89° 51' 26.588" E
	46	26° 36' 10.594" N	89° 51' 24.235" E
	47	26° 36' 11.127" N	89° 51' 23.480" E
	48	26° 36' 11.793" N	89° 51' 23.036" E
	49	26° 36' 12.546" N	89° 51' 22.536" E
	50	26° 36' 14.644" N	89° 51' 21.146" E
	51	26° 36' 15.860" N	89° 51' 20.356" E
	52	26° 36' 18.107" N	89° 51' 21.340" E
	53	26° 36' 19.564" N	89° 51' 23.647" E
	54	26° 36' 21.907" N	89° 51' 24.661" E
	55	26° 36' 24.241" N	89° 51' 26.153" E
	56	26° 36' 27.509" N	89° 51' 29.222" E
AD_KG_SK_05	1	26° 35' 5.554" N	89° 51' 45.830" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	2	26° 35' 5.327" N	89° 51' 45.459" E
	3	26° 35' 8.266" N	89° 51' 43.501" E
	4	26° 35' 13.463" N	89° 51' 41.480" E
	5	26° 35' 16.926" N	89° 51' 34.875" E
	6	26° 35' 18.417" N	89° 51' 29.914" E
	7	26° 35' 18.429" N	89° 51' 29.894" E
	8	26° 35' 22.398" N	89° 51' 29.874" E
	9	26° 35' 29.102" N	89° 51' 33.027" E
	10	26° 35' 33.214" N	89° 51' 36.401" E
	11	26° 35' 32.396" N	89° 51' 36.517" E
	12	26° 35' 30.532" N	89° 51' 36.771" E
	13	26° 35' 28.445" N	89° 51' 37.064" E
	14	26° 35' 24.902" N	89° 51' 37.549" E
	15	26° 35' 23.528" N	89° 51' 37.732" E
	16	26° 35' 22.667" N	89° 51' 38.506" E
	17	26° 35' 22.272" N	89° 51' 38.899" E
	18	26° 35' 21.737" N	89° 51' 39.430" E
	19	26° 35' 20.751" N	89° 51' 40.413" E
	20	26° 35' 19.333" N	89° 51' 41.156" E
	21	26° 35' 17.883" N	89° 51' 41.906" E
	22	26° 35' 16.311" N	89° 51' 41.755" E
	23	26° 35' 11.532" N	89° 51' 44.678" E
	24	26° 35' 10.364" N	89° 51' 45.122" E
	25	26° 35' 8.792" N	89° 51' 45.547" E
	26	26° 35' 8.586" N	89° 51' 45.603" E
AD_KG_SK_06	1	26° 34' 56.007" N	89° 51' 44.152" E
	2	26° 34' 55.297" N	89° 51' 43.526" E
	3	26° 34' 56.128" N	89° 51' 41.792" E
	4	26° 35' 0.884" N	89° 51' 42.004" E
	5	26° 35' 4.120" N	89° 51' 41.367" E
	6	26° 35' 8.315" N	89° 51' 41.113" E
	7	26° 35' 4.599" N	89° 51' 44.247" E
	8	26° 34' 59.646" N	89° 51' 44.840" E
AD_KG_SK_08	1	26° 34' 15.096" N	89° 51' 15.640" E
	2	26° 34' 14.747" N	89° 51' 12.543" E
	3	26° 34' 15.310" N	89° 51' 11.243" E
	4	26° 34' 15.967" N	89° 51' 12.372" E
	5	26° 34' 16.721" N	89° 51' 14.554" E
	6	26° 34' 18.295" N	89° 51' 18.718" E
	7	26° 34' 18.404" N	89° 51' 18.977" E
	8	26° 34' 19.177" N	89° 51' 21.971" E
	9	26° 34' 21.018" N	89° 51' 25.718" E
	10	26° 34' 21.229" N	89° 51' 26.504" E
	11	26° 34' 21.874" N	89° 51' 27.081" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	12	26° 34' 23.989" N	89° 51' 28.322" E
	13	26° 34' 25.526" N	89° 51' 29.030" E
	14	26° 34' 27.735" N	89° 51' 30.574" E
	15	26° 34' 30.673" N	89° 51' 31.938" E
	16	26° 34' 30.731" N	89° 51' 33.328" E
	17	26° 34' 30.689" N	89° 51' 33.316" E
	18	26° 34' 29.513" N	89° 51' 32.972" E
	19	26° 34' 28.770" N	89° 51' 32.755" E
	20	26° 34' 26.635" N	89° 51' 32.740" E
	21	26° 34' 24.228" N	89° 51' 32.906" E
	22	26° 34' 21.156" N	89° 51' 31.776" E
	23	26° 34' 20.907" N	89° 51' 31.585" E
	24	26° 34' 18.773" N	89° 51' 27.697" E
	25	26° 34' 17.965" N	89° 51' 23.494" E
AD_KG_SK_09	1	26° 33' 55.798" N	89° 50' 53.221" E
	2	26° 33' 54.874" N	89° 50' 51.484" E
	3	26° 34' 1.597" N	89° 50' 50.503" E
	4	26° 34' 4.904" N	89° 50' 52.735" E
	5	26° 34' 8.712" N	89° 50' 55.697" E
	6	26° 34' 11.927" N	89° 51' 2.514" E
	7	26° 34' 12.676" N	89° 51' 2.620" E
	8	26° 34' 13.258" N	89° 51' 7.872" E
	9	26° 34' 12.444" N	89° 51' 12.554" E
	10	26° 34' 12.410" N	89° 51' 12.452" E
	11	26° 34' 11.646" N	89° 51' 10.474" E
	12	26° 34' 10.075" N	89° 51' 7.620" E
	13	26° 34' 8.602" N	89° 51' 5.058" E
	14	26° 34' 7.863" N	89° 51' 3.813" E
	15	26° 34' 7.860" N	89° 51' 2.686" E
	16	26° 34' 6.483" N	89° 51' 0.645" E
	17	26° 34' 4.210" N	89° 50' 58.295" E
	18	26° 34' 1.802" N	89° 50' 56.229" E
	19	26° 34' 1.637" N	89° 50' 56.318" E
	20	26° 34' 0.605" N	89° 50' 55.322" E
	21	26° 33' 59.836" N	89° 50' 54.681" E
	22	26° 33' 58.979" N	89° 50' 54.033" E
	23	26° 33' 57.875" N	89° 50' 53.740" E
	24	26° 33' 56.556" N	89° 50' 53.406" E
AD_KG_SK_10	1	26° 33' 53.617" N	89° 50' 48.378" E
	2	26° 33' 50.469" N	89° 50' 49.545" E
	3	26° 33' 50.499" N	89° 50' 49.603" E
	4	26° 33' 49.250" N	89° 50' 49.997" E
	5	26° 33' 48.112" N	89° 50' 50.356" E
	6	26° 33' 46.438" N	89° 50' 49.758" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	7	26° 33' 44.356" N	89° 50' 48.889" E
	8	26° 33' 43.450" N	89° 50' 48.526" E
	9	26° 33' 42.678" N	89° 50' 48.217" E
	10	26° 33' 40.945" N	89° 50' 47.590" E
	11	26° 33' 39.531" N	89° 50' 47.399" E
	12	26° 33' 37.803" N	89° 50' 47.160" E
	13	26° 33' 36.458" N	89° 50' 46.975" E
	14	26° 33' 34.922" N	89° 50' 46.751" E
	15	26° 33' 33.477" N	89° 50' 46.541" E
	16	26° 33' 32.185" N	89° 50' 47.002" E
	17	26° 33' 30.911" N	89° 50' 47.470" E
	18	26° 33' 30.347" N	89° 50' 47.838" E
	19	26° 33' 29.938" N	89° 50' 48.105" E
	20	26° 33' 28.940" N	89° 50' 48.744" E
	21	26° 33' 28.723" N	89° 50' 48.822" E
	22	26° 33' 28.464" N	89° 50' 49.689" E
	23	26° 33' 28.254" N	89° 50' 50.540" E
	24	26° 33' 28.056" N	89° 50' 51.340" E
	25	26° 33' 27.815" N	89° 50' 52.506" E
	26	26° 33' 27.597" N	89° 50' 53.496" E
	27	26° 33' 27.577" N	89° 50' 54.524" E
	28	26° 33' 27.558" N	89° 50' 54.976" E
	29	26° 33' 27.410" N	89° 50' 56.048" E
	30	26° 33' 27.276" N	89° 50' 56.904" E
	31	26° 33' 27.047" N	89° 50' 58.738" E
	32	26° 33' 26.238" N	89° 51' 1.903" E
	33	26° 33' 25.480" N	89° 51' 5.999" E
	34	26° 33' 25.111" N	89° 51' 8.490" E
	35	26° 33' 24.871" N	89° 51' 9.470" E
	36	26° 33' 24.725" N	89° 51' 9.653" E
	37	26° 33' 23.444" N	89° 51' 8.507" E
	38	26° 33' 23.410" N	89° 51' 6.612" E
	39	26° 33' 22.361" N	89° 51' 5.392" E
	40	26° 33' 21.791" N	89° 51' 3.535" E
	41	26° 33' 22.009" N	89° 51' 0.330" E
	42	26° 33' 22.951" N	89° 50' 59.665" E
	43	26° 33' 23.203" N	89° 50' 49.638" E
	44	26° 33' 23.199" N	89° 50' 47.287" E
	45	26° 33' 26.424" N	89° 50' 44.827" E
	46	26° 33' 28.888" N	89° 50' 43.815" E
	47	26° 33' 30.897" N	89° 50' 43.922" E
	48	26° 33' 43.818" N	89° 50' 45.257" E
	49	26° 33' 46.997" N	89° 50' 45.336" E
	50	26° 33' 49.736" N	89° 50' 44.806" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	51	26° 33' 51.883" N	89° 50' 44.859" E
	52	26° 33' 55.212" N	89° 50' 44.381" E
	53	26° 33' 55.721" N	89° 50' 44.532" E
	54	26° 33' 57.749" N	89° 50' 45.145" E
	55	26° 33' 59.180" N	89° 50' 45.618" E
	56	26° 33' 59.408" N	89° 50' 45.694" E
	57	26° 34' 1.707" N	89° 50' 46.464" E
	58	26° 34' 3.656" N	89° 50' 47.257" E
	59	26° 34' 4.399" N	89° 50' 47.690" E
	60	26° 34' 1.388" N	89° 50' 48.061" E
	61	26° 33' 57.944" N	89° 50' 47.996" E
	62	26° 33' 56.092" N	89° 50' 49.264" E
AD_KG_SK_11	1	26° 32' 49.467" N	89° 51' 19.386" E
	2	26° 32' 49.106" N	89° 51' 19.377" E
	3	26° 32' 49.397" N	89° 51' 19.112" E
	4	26° 32' 50.055" N	89° 51' 18.312" E
	5	26° 32' 51.657" N	89° 51' 17.380" E
	6	26° 32' 52.731" N	89° 51' 15.207" E
	7	26° 32' 53.084" N	89° 51' 13.232" E
	8	26° 32' 53.264" N	89° 51' 10.632" E
	9	26° 32' 53.985" N	89° 51' 8.370" E
	10	26° 32' 55.488" N	89° 51' 7.655" E
	11	26° 32' 57.214" N	89° 51' 7.496" E
	12	26° 32' 58.593" N	89° 51' 7.100" E
	13	26° 32' 59.950" N	89° 51' 7.945" E
	14	26° 33' 1.649" N	89° 51' 8.885" E
	15	26° 33' 3.117" N	89° 51' 9.532" E
	16	26° 33' 5.270" N	89° 51' 10.482" E
	17	26° 33' 6.712" N	89° 51' 11.322" E
	18	26° 33' 8.523" N	89° 51' 12.375" E
	19	26° 33' 9.761" N	89° 51' 12.907" E
	20	26° 33' 11.058" N	89° 51' 13.466" E
	21	26° 33' 12.372" N	89° 51' 14.039" E
	22	26° 33' 13.066" N	89° 51' 13.959" E
	23	26° 33' 13.515" N	89° 51' 13.906" E
	24	26° 33' 14.963" N	89° 51' 13.673" E
	25	26° 33' 16.203" N	89° 51' 13.315" E
	26	26° 33' 17.011" N	89° 51' 13.089" E
	27	26° 33' 17.854" N	89° 51' 12.838" E
	28	26° 33' 18.342" N	89° 51' 12.583" E
	29	26° 33' 18.842" N	89° 51' 12.183" E
	30	26° 33' 19.321" N	89° 51' 11.798" E
	31	26° 33' 19.922" N	89° 51' 11.318" E
	32	26° 33' 20.544" N	89° 51' 10.821" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	33	26° 33' 20.751" N	89° 51' 10.593" E
	34	26° 33' 20.782" N	89° 51' 13.426" E
	35	26° 33' 18.277" N	89° 51' 16.230" E
	36	26° 33' 14.517" N	89° 51' 17.284" E
	37	26° 33' 11.038" N	89° 51' 17.198" E
	38	26° 33' 9.260" N	89° 51' 15.863" E
	39	26° 33' 5.404" N	89° 51' 15.338" E
	40	26° 33' 0.868" N	89° 51' 16.515" E
	41	26° 32' 56.459" N	89° 51' 17.839" E
	42	26° 32' 53.473" N	89° 51' 18.912" E
AD_KG_SK_12	1	26° 32' 39.818" N	89° 51' 23.798" E
	2	26° 32' 39.199" N	89° 51' 23.575" E
	3	26° 32' 44.095" N	89° 51' 23.696" E
	4	26° 32' 50.197" N	89° 51' 21.554" E
	5	26° 32' 57.046" N	89° 51' 20.721" E
	6	26° 33' 5.475" N	89° 51' 18.206" E
	7	26° 33' 5.339" N	89° 51' 18.673" E
	8	26° 33' 5.313" N	89° 51' 18.675" E
	9	26° 33' 3.344" N	89° 51' 21.406" E
	10	26° 33' 1.391" N	89° 51' 23.565" E
	11	26° 33' 0.119" N	89° 51' 24.797" E
	12	26° 32' 58.346" N	89° 51' 25.753" E
	13	26° 32' 57.121" N	89° 51' 25.627" E
	14	26° 32' 53.713" N	89° 51' 25.773" E
	15	26° 32' 53.148" N	89° 51' 25.793" E
	16	26° 32' 52.620" N	89° 51' 25.811" E
	17	26° 32' 51.418" N	89° 51' 26.710" E
	18	26° 32' 48.978" N	89° 51' 26.818" E
	19	26° 32' 48.769" N	89° 51' 26.821" E
	20	26° 32' 46.878" N	89° 51' 26.345" E
	21	26° 32' 46.455" N	89° 51' 26.192" E
	22	26° 32' 45.637" N	89° 51' 25.707" E
	23	26° 32' 44.493" N	89° 51' 25.095" E
	24	26° 32' 43.132" N	89° 51' 24.783" E
	25	26° 32' 43.000" N	89° 51' 24.752" E
	26	26° 32' 41.852" N	89° 51' 23.926" E
AD_KG_SK_13_14	1	26° 32' 31.111" N	89° 51' 11.116" E
	2	26° 32' 30.418" N	89° 51' 9.264" E
	3	26° 32' 30.266" N	89° 51' 7.009" E
	4	26° 32' 30.032" N	89° 51' 3.180" E
	5	26° 32' 29.664" N	89° 50' 57.137" E
	6	26° 32' 29.398" N	89° 50' 55.059" E
	7	26° 32' 29.226" N	89° 50' 54.402" E
	8	26° 32' 29.015" N	89° 50' 53.602" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	9	26° 32' 27.873" N	89° 50' 52.385" E
	10	26° 32' 26.480" N	89° 50' 51.186" E
	11	26° 32' 24.959" N	89° 50' 50.395" E
	12	26° 32' 23.639" N	89° 50' 50.116" E
	13	26° 32' 22.266" N	89° 50' 49.684" E
	14	26° 32' 21.531" N	89° 50' 49.373" E
	15	26° 32' 19.762" N	89° 50' 49.329" E
	16	26° 32' 18.461" N	89° 50' 49.312" E
	17	26° 32' 17.199" N	89° 50' 49.470" E
	18	26° 32' 16.113" N	89° 50' 49.652" E
	19	26° 32' 15.090" N	89° 50' 49.868" E
	20	26° 32' 14.184" N	89° 50' 50.321" E
	21	26° 32' 11.645" N	89° 50' 52.088" E
	22	26° 32' 8.693" N	89° 50' 54.557" E
	23	26° 32' 7.334" N	89° 50' 55.976" E
	24	26° 32' 6.749" N	89° 50' 54.496" E
	25	26° 32' 5.995" N	89° 50' 54.537" E
	26	26° 32' 1.642" N	89° 50' 59.815" E
	27	26° 31' 57.259" N	89° 51' 5.167" E
	28	26° 31' 55.707" N	89° 51' 5.916" E
	29	26° 31' 55.049" N	89° 51' 6.320" E
	30	26° 31' 51.835" N	89° 51' 6.738" E
	31	26° 31' 48.084" N	89° 51' 6.287" E
	32	26° 31' 44.589" N	89° 51' 3.812" E
	33	26° 31' 40.981" N	89° 51' 1.573" E
	34	26° 31' 37.305" N	89° 51' 0.560" E
	35	26° 31' 40.735" N	89° 51' 0.791" E
	36	26° 31' 45.849" N	89° 51' 2.905" E
	37	26° 31' 50.196" N	89° 51' 5.573" E
	38	26° 31' 53.255" N	89° 51' 5.610" E
	39	26° 31' 53.890" N	89° 51' 5.190" E
	40	26° 31' 55.409" N	89° 51' 5.228" E
	41	26° 31' 57.197" N	89° 51' 3.514" E
	42	26° 31' 58.029" N	89° 51' 1.433" E
	43	26° 31' 57.249" N	89° 50' 59.664" E
	44	26° 31' 57.903" N	89° 50' 59.465" E
	45	26° 31' 59.340" N	89° 50' 58.939" E
	46	26° 32' 0.655" N	89° 50' 58.166" E
	47	26° 32' 1.579" N	89° 50' 57.384" E
	48	26° 32' 2.624" N	89° 50' 56.504" E
	49	26° 32' 4.182" N	89° 50' 54.772" E
	50	26° 32' 4.264" N	89° 50' 54.681" E
	51	26° 32' 7.917" N	89° 50' 52.207" E
	52	26° 32' 7.748" N	89° 50' 52.412" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	53	26° 32' 11.733" N	89° 50' 49.433" E
	54	26° 32' 15.913" N	89° 50' 46.670" E
	55	26° 32' 18.045" N	89° 50' 45.961" E
	56	26° 32' 18.380" N	89° 50' 45.981" E
	57	26° 32' 19.922" N	89° 50' 46.019" E
	58	26° 32' 21.430" N	89° 50' 46.099" E
	59	26° 32' 22.657" N	89° 50' 46.197" E
	60	26° 32' 26.898" N	89° 50' 48.006" E
	61	26° 32' 30.440" N	89° 50' 49.660" E
	62	26° 32' 31.107" N	89° 50' 52.899" E
	63	26° 32' 31.670" N	89° 50' 56.974" E
	64	26° 32' 31.255" N	89° 51' 1.622" E
	65	26° 32' 31.202" N	89° 51' 2.198" E
	66	26° 32' 31.046" N	89° 51' 2.165" E
	67	26° 32' 31.127" N	89° 51' 3.426" E
	68	26° 32' 31.280" N	89° 51' 6.105" E
	69	26° 32' 31.858" N	89° 51' 8.107" E
	70	26° 32' 32.868" N	89° 51' 9.202" E
	71	26° 32' 34.345" N	89° 51' 14.360" E
	72	26° 32' 36.133" N	89° 51' 17.767" E
	73	26° 32' 38.302" N	89° 51' 19.350" E
	74	26° 32' 41.102" N	89° 51' 20.260" E
	75	26° 32' 40.873" N	89° 51' 21.401" E
	76	26° 32' 37.559" N	89° 51' 22.083" E
	77	26° 32' 34.872" N	89° 51' 22.399" E
	78	26° 32' 34.910" N	89° 51' 20.489" E
	79	26° 32' 34.204" N	89° 51' 19.769" E
	80	26° 32' 34.180" N	89° 51' 19.455" E
	81	26° 32' 34.130" N	89° 51' 18.804" E
	82	26° 32' 33.595" N	89° 51' 16.565" E
	83	26° 32' 32.996" N	89° 51' 15.500" E
	84	26° 32' 32.235" N	89° 51' 14.058" E
	85	26° 32' 31.691" N	89° 51' 12.576" E
AD_KG_SK_15	1	26° 31' 36.219" N	89° 51' 5.751" E
	2	26° 31' 35.427" N	89° 51' 7.761" E
	3	26° 31' 35.444" N	89° 51' 9.213" E
	4	26° 31' 35.421" N	89° 51' 9.320" E
	5	26° 31' 35.361" N	89° 51' 9.732" E
	6	26° 31' 35.278" N	89° 51' 10.307" E
	7	26° 31' 35.423" N	89° 51' 11.432" E
	8	26° 31' 35.398" N	89° 51' 12.703" E
	9	26° 31' 35.371" N	89° 51' 14.075" E
	10	26° 31' 35.641" N	89° 51' 15.250" E
	11	26° 31' 35.920" N	89° 51' 16.457" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	12	26° 31' 36.561" N	89° 51' 18.588" E
	13	26° 31' 36.735" N	89° 51' 19.273" E
	14	26° 31' 33.835" N	89° 51' 17.246" E
	15	26° 31' 33.167" N	89° 51' 13.318" E
	16	26° 31' 33.642" N	89° 51' 5.687" E
	17	26° 31' 36.379" N	89° 51' 3.128" E
	18	26° 31' 38.417" N	89° 51' 3.297" E
AD_KG_SK_16	1	26° 28' 47.726" N	89° 51' 22.332" E
	2	26° 28' 43.465" N	89° 51' 20.508" E
	3	26° 28' 43.559" N	89° 51' 19.659" E
	4	26° 28' 46.524" N	89° 51' 17.824" E
	5	26° 28' 49.397" N	89° 51' 15.865" E
	6	26° 28' 50.832" N	89° 51' 14.917" E
	7	26° 28' 52.947" N	89° 51' 14.528" E
	8	26° 28' 54.671" N	89° 51' 14.009" E
	9	26° 28' 56.246" N	89° 51' 13.536" E
	10	26° 29' 1.045" N	89° 51' 19.581" E
	11	26° 28' 57.437" N	89° 51' 21.896" E
	12	26° 28' 53.803" N	89° 51' 22.589" E
	13	26° 28' 50.580" N	89° 51' 23.486" E
AD_KG_SK_16A	1	26° 28' 6.681" N	89° 51' 19.012" E
	2	26° 28' 5.088" N	89° 51' 17.801" E
	3	26° 28' 9.970" N	89° 51' 17.895" E
	4	26° 28' 12.001" N	89° 51' 18.050" E
	5	26° 28' 14.520" N	89° 51' 19.584" E
	6	26° 28' 16.340" N	89° 51' 20.693" E
	7	26° 28' 18.270" N	89° 51' 21.869" E
	8	26° 28' 19.813" N	89° 51' 22.808" E
	9	26° 28' 22.106" N	89° 51' 24.127" E
	10	26° 28' 22.577" N	89° 51' 24.154" E
	11	26° 28' 22.727" N	89° 51' 24.565" E
	12	26° 28' 20.404" N	89° 51' 24.699" E
	13	26° 28' 13.692" N	89° 51' 20.809" E
AD_KG_SK_17	1	26° 27' 46.227" N	89° 51' 43.858" E
	2	26° 27' 45.710" N	89° 51' 43.663" E
	3	26° 27' 46.160" N	89° 51' 30.963" E
	4	26° 27' 49.669" N	89° 51' 30.535" E
	5	26° 27' 54.205" N	89° 51' 28.447" E
	6	26° 27' 56.013" N	89° 51' 26.081" E
	7	26° 27' 56.133" N	89° 51' 25.714" E
	8	26° 27' 56.208" N	89° 51' 25.484" E
	9	26° 28' 3.342" N	89° 51' 24.291" E
	10	26° 28' 12.756" N	89° 51' 26.242" E
	11	26° 28' 20.493" N	89° 51' 32.557" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	12	26° 28' 19.281" N	89° 51' 32.411" E
	13	26° 28' 17.699" N	89° 51' 32.184" E
	14	26° 28' 17.216" N	89° 51' 32.115" E
	15	26° 28' 15.719" N	89° 51' 31.900" E
	16	26° 28' 13.853" N	89° 51' 31.631" E
	17	26° 28' 13.681" N	89° 51' 31.607" E
	18	26° 28' 11.270" N	89° 51' 31.260" E
	19	26° 28' 9.238" N	89° 51' 31.119" E
	20	26° 28' 8.307" N	89° 51' 31.054" E
	21	26° 28' 6.982" N	89° 51' 30.961" E
	22	26° 28' 4.989" N	89° 51' 30.822" E
	23	26° 28' 3.998" N	89° 51' 34.100" E
	24	26° 28' 1.857" N	89° 51' 39.070" E
	25	26° 27' 59.064" N	89° 51' 42.682" E
	26	26° 27' 58.817" N	89° 51' 43.002" E
	27	26° 27' 55.973" N	89° 51' 42.956" E
	28	26° 27' 54.359" N	89° 51' 44.190" E
	29	26° 27' 52.400" N	89° 51' 44.287" E
	30	26° 27' 50.096" N	89° 51' 44.471" E
	31	26° 27' 48.733" N	89° 51' 44.437" E
AD_KG_SK_18	1	26° 26' 56.969" N	89° 51' 35.188" E
	2	26° 26' 57.822" N	89° 51' 31.199" E
	3	26° 27' 1.024" N	89° 51' 25.837" E
	4	26° 27' 12.459" N	89° 51' 24.203" E
	5	26° 27' 10.560" N	89° 51' 33.469" E
	6	26° 27' 10.114" N	89° 51' 33.488" E
	7	26° 27' 7.108" N	89° 51' 33.465" E
	8	26° 27' 3.764" N	89° 51' 35.770" E
	9	26° 27' 3.009" N	89° 51' 36.329" E
	10	26° 26' 59.869" N	89° 51' 38.653" E
	11	26° 26' 56.351" N	89° 51' 41.710" E
	12	26° 26' 54.359" N	89° 51' 41.490" E
	13	26° 26' 54.063" N	89° 51' 41.457" E
	14	26° 26' 56.255" N	89° 51' 35.576" E
AD_KG_SK_20	1	26° 26' 21.031" N	89° 51' 10.287" E
	2	26° 26' 23.156" N	89° 51' 14.118" E
	3	26° 26' 21.438" N	89° 51' 17.781" E
	4	26° 26' 20.090" N	89° 51' 16.815" E
	5	26° 26' 18.360" N	89° 51' 15.533" E
	6	26° 26' 17.357" N	89° 51' 15.297" E
	7	26° 26' 16.089" N	89° 51' 12.456" E
	8	26° 26' 14.784" N	89° 51' 10.117" E
	9	26° 26' 14.784" N	89° 51' 10.082" E
	10	26° 26' 14.640" N	89° 51' 5.650" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	11	26° 26' 17.888" N	89° 51' 4.576" E
	12	26° 26' 18.404" N	89° 51' 5.836" E
	13	26° 26' 19.222" N	89° 51' 7.740" E
	14	26° 26' 20.621" N	89° 51' 9.632" E
	15	26° 26' 21.047" N	89° 51' 10.187" E
AD_KG_SK_21	1	26° 25' 52.189" N	89° 50' 54.188" E
	2	26° 25' 51.192" N	89° 50' 53.164" E
	3	26° 25' 54.027" N	89° 50' 51.086" E
	4	26° 25' 58.658" N	89° 50' 50.484" E
	5	26° 26' 3.480" N	89° 50' 51.079" E
	6	26° 26' 7.007" N	89° 50' 52.001" E
	7	26° 26' 9.660" N	89° 50' 53.618" E
	8	26° 26' 10.191" N	89° 50' 55.260" E
	9	26° 26' 9.236" N	89° 50' 55.013" E
	10	26° 26' 8.781" N	89° 50' 54.915" E
	11	26° 26' 6.434" N	89° 50' 53.777" E
	12	26° 26' 2.586" N	89° 50' 52.847" E
	13	26° 26' 0.000" N	89° 50' 53.165" E
	14	26° 25' 59.108" N	89° 50' 52.992" E
	15	26° 25' 56.745" N	89° 50' 52.735" E
	16	26° 25' 54.702" N	89° 50' 53.372" E
	17	26° 25' 52.750" N	89° 50' 54.008" E
AD_KG_SK_22	1	26° 25' 35.321" N	89° 50' 57.188" E
	2	26° 25' 34.593" N	89° 50' 55.977" E
	3	26° 25' 37.852" N	89° 50' 54.148" E
	4	26° 25' 41.192" N	89° 50' 53.634" E
	5	26° 25' 42.231" N	89° 50' 51.771" E
	6	26° 25' 48.241" N	89° 50' 49.704" E
	7	26° 25' 52.324" N	89° 50' 48.804" E
	8	26° 25' 51.906" N	89° 50' 49.721" E
	9	26° 25' 48.844" N	89° 50' 52.390" E
	10	26° 25' 46.022" N	89° 50' 53.872" E
	11	26° 25' 42.791" N	89° 50' 54.269" E
	12	26° 25' 40.723" N	89° 50' 55.650" E
	13	26° 25' 37.043" N	89° 50' 56.992" E
AD_KG_SK_23	1	26° 24' 47.165" N	89° 50' 59.496" E
	2	26° 24' 42.212" N	89° 50' 58.614" E
	3	26° 24' 43.052" N	89° 50' 54.621" E
	4	26° 24' 46.475" N	89° 50' 55.327" E
	5	26° 24' 50.314" N	89° 50' 56.710" E
	6	26° 24' 54.521" N	89° 50' 59.104" E
	7	26° 24' 56.264" N	89° 51' 1.516" E
	8	26° 24' 54.398" N	89° 51' 3.639" E
	9	26° 24' 52.462" N	89° 51' 5.843" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	10	26° 24' 50.822" N	89° 51' 3.594" E
	11	26° 24' 49.839" N	89° 51' 1.137" E
AD_KG_SK_24	1	26° 24' 43.223" N	89° 51' 3.264" E
	2	26° 24' 42.736" N	89° 51' 1.821" E
	3	26° 24' 43.912" N	89° 51' 0.991" E
	4	26° 24' 45.573" N	89° 51' 1.747" E
	5	26° 24' 46.203" N	89° 51' 2.479" E
	6	26° 24' 49.001" N	89° 51' 4.409" E
	7	26° 24' 51.270" N	89° 51' 7.199" E
	8	26° 24' 49.367" N	89° 51' 9.366" E
	9	26° 24' 48.472" N	89° 51' 10.385" E
	10	26° 24' 47.360" N	89° 51' 9.093" E
	11	26° 24' 47.257" N	89° 51' 7.802" E
	12	26° 24' 45.868" N	89° 51' 6.336" E
	13	26° 24' 45.510" N	89° 51' 4.895" E
AD_MD_AG_01	1	26° 44' 47.514" N	89° 5' 44.042" E
	2	26° 45' 1.946" N	89° 5' 37.257" E
	3	26° 45' 3.445" N	89° 5' 36.553" E
	4	26° 45' 4.597" N	89° 5' 35.832" E
	5	26° 45' 5.878" N	89° 5' 35.030" E
	6	26° 45' 8.313" N	89° 5' 33.777" E
	7	26° 45' 11.691" N	89° 5' 31.975" E
	8	26° 45' 14.602" N	89° 5' 30.500" E
	9	26° 45' 20.199" N	89° 5' 28.784" E
	10	26° 45' 21.526" N	89° 5' 28.600" E
	11	26° 45' 28.629" N	89° 5' 27.615" E
	12	26° 45' 29.830" N	89° 5' 27.479" E
	13	26° 45' 37.178" N	89° 5' 26.647" E
	14	26° 45' 42.423" N	89° 5' 26.729" E
	15	26° 45' 45.479" N	89° 5' 26.777" E
	16	26° 45' 52.471" N	89° 5' 27.261" E
	17	26° 45' 55.309" N	89° 5' 27.458" E
	18	26° 46' 4.740" N	89° 5' 28.937" E
	19	26° 46' 11.917" N	89° 5' 30.625" E
	20	26° 46' 18.227" N	89° 5' 33.242" E
	21	26° 46' 21.511" N	89° 5' 34.578" E
	22	26° 46' 23.807" N	89° 5' 35.512" E
	23	26° 46' 26.995" N	89° 5' 37.800" E
	24	26° 46' 29.715" N	89° 5' 39.716" E
	25	26° 46' 35.836" N	89° 5' 43.271" E
	26	26° 46' 41.944" N	89° 5' 46.169" E
	27	26° 46' 44.362" N	89° 5' 46.992" E
	28	26° 46' 48.568" N	89° 5' 48.423" E
	29	26° 46' 49.226" N	89° 5' 48.646" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	30	26° 46' 50.180" N	89° 5' 48.938" E
	31	26° 46' 51.651" N	89° 5' 49.388" E
	32	26° 46' 51.846" N	89° 5' 49.547" E
	33	26° 46' 52.588" N	89° 5' 50.151" E
	34	26° 46' 54.416" N	89° 5' 51.639" E
	35	26° 47' 1.464" N	89° 5' 54.643" E
	36	26° 47' 9.635" N	89° 5' 54.314" E
	37	26° 47' 10.105" N	89° 5' 57.301" E
	38	26° 47' 10.631" N	89° 6' 0.646" E
	39	26° 47' 11.261" N	89° 6' 4.654" E
	40	26° 47' 9.059" N	89° 6' 4.567" E
	41	26° 47' 8.455" N	89° 6' 4.543" E
	42	26° 47' 6.090" N	89° 6' 4.273" E
	43	26° 47' 5.622" N	89° 6' 4.058" E
	44	26° 47' 5.138" N	89° 6' 4.164" E
	45	26° 47' 4.553" N	89° 6' 4.097" E
	46	26° 46' 58.798" N	89° 6' 3.385" E
	47	26° 46' 57.592" N	89° 6' 3.235" E
	48	26° 46' 53.563" N	89° 6' 2.602" E
	49	26° 46' 51.653" N	89° 6' 2.301" E
	50	26° 46' 46.139" N	89° 6' 0.937" E
	51	26° 46' 41.234" N	89° 6' 0.483" E
	52	26° 46' 38.871" N	89° 6' 0.264" E
	53	26° 46' 37.789" N	89° 6' 0.164" E
	54	26° 46' 31.001" N	89° 5' 57.952" E
	55	26° 46' 27.684" N	89° 5' 57.059" E
	56	26° 46' 24.595" N	89° 5' 56.227" E
	57	26° 46' 23.557" N	89° 5' 55.942" E
	58	26° 46' 21.143" N	89° 5' 55.280" E
	59	26° 46' 16.250" N	89° 5' 54.871" E
	60	26° 46' 11.684" N	89° 5' 52.411" E
	61	26° 46' 11.294" N	89° 5' 52.201" E
	62	26° 46' 9.560" N	89° 5' 51.223" E
	63	26° 46' 4.520" N	89° 5' 48.383" E
	64	26° 45' 58.526" N	89° 5' 45.269" E
	65	26° 45' 57.253" N	89° 5' 44.939" E
	66	26° 45' 56.170" N	89° 5' 44.658" E
	67	26° 45' 51.608" N	89° 5' 40.669" E
	68	26° 45' 44.567" N	89° 5' 37.188" E
	69	26° 45' 34.082" N	89° 5' 34.123" E
	70	26° 45' 30.281" N	89° 5' 34.476" E
	71	26° 45' 27.626" N	89° 5' 34.723" E
	72	26° 45' 26.951" N	89° 5' 35.051" E
	73	26° 45' 17.668" N	89° 5' 39.568" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	74	26° 45' 16.795" N	89° 5' 39.943" E
	75	26° 45' 13.592" N	89° 5' 41.319" E
	76	26° 45' 12.465" N	89° 5' 41.704" E
	77	26° 45' 10.164" N	89° 5' 42.289" E
	78	26° 45' 9.158" N	89° 5' 42.277" E
	79	26° 45' 8.197" N	89° 5' 42.265" E
	80	26° 45' 5.848" N	89° 5' 44.296" E
	81	26° 45' 5.067" N	89° 5' 44.971" E
	82	26° 45' 0.863" N	89° 5' 48.371" E
	83	26° 44' 55.936" N	89° 5' 52.347" E
	84	26° 44' 55.727" N	89° 5' 52.521" E
	85	26° 44' 52.300" N	89° 5' 55.377" E
	86	26° 44' 49.243" N	89° 5' 57.940" E
	87	26° 44' 47.794" N	89° 5' 58.354" E
	88	26° 44' 45.035" N	89° 5' 59.141" E
	89	26° 44' 44.699" N	89° 5' 59.237" E
	90	26° 44' 41.058" N	89° 5' 59.896" E
	91	26° 44' 34.256" N	89° 6' 0.786" E
	92	26° 44' 34.084" N	89° 6' 0.809" E
	93	26° 44' 28.213" N	89° 6' 1.675" E
	94	26° 44' 23.126" N	89° 6' 1.049" E
	95	26° 44' 19.531" N	89° 5' 59.637" E
	96	26° 44' 16.534" N	89° 5' 59.084" E
	97	26° 44' 15.637" N	89° 5' 58.919" E
	98	26° 44' 12.867" N	89° 5' 58.559" E
	99	26° 44' 11.970" N	89° 5' 58.442" E
	100	26° 44' 10.126" N	89° 5' 58.200" E
	101	26° 44' 7.698" N	89° 5' 58.274" E
	102	26° 44' 5.460" N	89° 5' 58.383" E
	103	26° 44' 3.121" N	89° 5' 58.481" E
	104	26° 44' 1.557" N	89° 5' 58.565" E
	105	26° 43' 59.437" N	89° 5' 58.657" E
	106	26° 43' 56.573" N	89° 5' 58.179" E
	107	26° 43' 54.367" N	89° 5' 57.679" E
	108	26° 43' 51.233" N	89° 5' 56.918" E
	109	26° 43' 49.439" N	89° 5' 56.626" E
	110	26° 43' 48.900" N	89° 5' 56.538" E
	111	26° 43' 45.838" N	89° 5' 55.983" E
	112	26° 43' 44.068" N	89° 5' 51.841" E
	113	26° 43' 46.995" N	89° 5' 48.862" E
	114	26° 43' 48.872" N	89° 5' 49.182" E
	115	26° 43' 49.163" N	89° 5' 49.232" E
	116	26° 43' 52.046" N	89° 5' 49.850" E
	117	26° 43' 55.308" N	89° 5' 50.581" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	118	26° 43' 57.457" N	89° 5' 50.653" E
	119	26° 43' 59.700" N	89° 5' 50.721" E
	120	26° 44' 1.330" N	89° 5' 50.540" E
	121	26° 44' 3.698" N	89° 5' 50.256" E
	122	26° 44' 5.225" N	89° 5' 50.091" E
	123	26° 44' 12.397" N	89° 5' 52.795" E
	124	26° 44' 20.108" N	89° 5' 54.545" E
	125	26° 44' 30.455" N	89° 5' 52.437" E
	126	26° 44' 37.149" N	89° 5' 46.240" E
	127	26° 44' 43.166" N	89° 5' 45.623" E
AD_MD_MR_01	1	26° 43' 45.764" N	89° 6' 37.148" E
	2	26° 43' 47.268" N	89° 6' 30.938" E
	3	26° 43' 49.863" N	89° 6' 30.858" E
	4	26° 43' 51.792" N	89° 6' 30.770" E
	5	26° 43' 53.457" N	89° 6' 30.768" E
	6	26° 43' 54.503" N	89° 6' 30.746" E
	7	26° 43' 55.712" N	89° 6' 30.720" E
	8	26° 43' 57.637" N	89° 6' 30.677" E
	9	26° 43' 59.814" N	89° 6' 30.631" E
	10	26° 44' 2.126" N	89° 6' 30.604" E
	11	26° 44' 4.277" N	89° 6' 30.611" E
	12	26° 44' 4.867" N	89° 6' 30.614" E
	13	26° 44' 6.524" N	89° 6' 30.623" E
	14	26° 44' 8.962" N	89° 6' 30.539" E
	15	26° 44' 11.566" N	89° 6' 30.723" E
	16	26° 44' 11.653" N	89° 6' 30.731" E
	17	26° 44' 14.471" N	89° 6' 30.989" E
	18	26° 44' 15.647" N	89° 6' 31.011" E
	19	26° 44' 16.741" N	89° 6' 31.031" E
	20	26° 44' 19.209" N	89° 6' 31.246" E
	21	26° 44' 21.419" N	89° 6' 31.413" E
	22	26° 44' 23.347" N	89° 6' 31.727" E
	23	26° 44' 25.225" N	89° 6' 32.040" E
	24	26° 44' 28.318" N	89° 6' 32.556" E
	25	26° 44' 28.860" N	89° 6' 32.745" E
	26	26° 44' 31.186" N	89° 6' 33.556" E
	27	26° 44' 33.509" N	89° 6' 34.363" E
	28	26° 44' 35.595" N	89° 6' 35.135" E
	29	26° 44' 36.472" N	89° 6' 35.500" E
	30	26° 44' 37.402" N	89° 6' 36.149" E
	31	26° 44' 43.584" N	89° 6' 39.494" E
	32	26° 44' 49.248" N	89° 6' 41.634" E
	33	26° 44' 51.282" N	89° 6' 41.323" E
	34	26° 44' 51.338" N	89° 6' 41.346" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	35	26° 44' 52.196" N	89° 6' 41.613" E
	36	26° 44' 53.146" N	89° 6' 41.904" E
	37	26° 44' 54.280" N	89° 6' 42.263" E
	38	26° 44' 54.946" N	89° 6' 42.331" E
	39	26° 44' 55.541" N	89° 6' 42.415" E
	40	26° 44' 55.674" N	89° 6' 42.434" E
	41	26° 44' 57.547" N	89° 6' 42.699" E
	42	26° 44' 59.796" N	89° 6' 43.028" E
	43	26° 45' 1.320" N	89° 6' 43.254" E
	44	26° 45' 2.596" N	89° 6' 43.468" E
	45	26° 45' 3.814" N	89° 6' 43.669" E
	46	26° 45' 4.541" N	89° 6' 43.790" E
	47	26° 45' 5.589" N	89° 6' 43.958" E
	48	26° 45' 7.213" N	89° 6' 44.227" E
	49	26° 45' 9.052" N	89° 6' 45.195" E
	50	26° 45' 9.290" N	89° 6' 45.323" E
	51	26° 45' 11.202" N	89° 6' 46.588" E
	52	26° 45' 12.561" N	89° 6' 46.942" E
	53	26° 45' 13.849" N	89° 6' 47.570" E
	54	26° 45' 14.092" N	89° 6' 49.138" E
	55	26° 45' 14.227" N	89° 6' 50.007" E
	56	26° 45' 16.752" N	89° 6' 50.848" E
	57	26° 45' 19.538" N	89° 6' 51.788" E
	58	26° 45' 21.559" N	89° 6' 52.241" E
	59	26° 45' 22.038" N	89° 6' 52.350" E
	60	26° 45' 24.363" N	89° 6' 52.877" E
	61	26° 45' 27.598" N	89° 6' 53.662" E
	62	26° 45' 27.773" N	89° 6' 53.705" E
	63	26° 45' 29.371" N	89° 6' 54.409" E
	64	26° 45' 32.203" N	89° 6' 55.876" E
	65	26° 45' 35.364" N	89° 6' 57.982" E
	66	26° 45' 38.189" N	89° 7' 0.114" E
	67	26° 45' 39.174" N	89° 7' 1.360" E
	68	26° 45' 43.230" N	89° 7' 6.492" E
	69	26° 45' 47.424" N	89° 7' 11.797" E
	70	26° 45' 52.427" N	89° 7' 14.589" E
	71	26° 45' 52.980" N	89° 7' 15.029" E
	72	26° 45' 54.224" N	89° 7' 19.945" E
	73	26° 45' 54.557" N	89° 7' 26.415" E
	74	26° 45' 55.903" N	89° 7' 29.792" E
	75	26° 45' 57.366" N	89° 7' 32.572" E
	76	26° 45' 59.231" N	89° 7' 37.156" E
	77	26° 46' 0.898" N	89° 7' 40.659" E
	78	26° 46' 1.505" N	89° 7' 41.592" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	79	26° 46' 2.625" N	89° 7' 43.994" E
	80	26° 46' 4.621" N	89° 7' 47.504" E
	81	26° 46' 5.597" N	89° 7' 49.725" E
	82	26° 46' 9.079" N	89° 7' 53.415" E
	83	26° 46' 9.905" N	89° 7' 54.883" E
	84	26° 46' 10.907" N	89° 7' 56.665" E
	85	26° 46' 14.496" N	89° 8' 1.587" E
	86	26° 46' 15.932" N	89° 8' 3.895" E
	87	26° 46' 16.693" N	89° 8' 5.052" E
	88	26° 46' 18.209" N	89° 8' 7.355" E
	89	26° 46' 21.974" N	89° 8' 11.133" E
	90	26° 46' 26.034" N	89° 8' 15.250" E
	91	26° 46' 26.138" N	89° 8' 15.518" E
	92	26° 46' 19.943" N	89° 8' 21.335" E
	93	26° 46' 19.459" N	89° 8' 20.391" E
	94	26° 46' 18.091" N	89° 8' 17.809" E
	95	26° 46' 17.164" N	89° 8' 16.282" E
	96	26° 46' 15.356" N	89° 8' 13.302" E
	97	26° 46' 13.144" N	89° 8' 9.718" E
	98	26° 46' 11.374" N	89° 8' 6.739" E
	99	26° 46' 9.260" N	89° 8' 3.430" E
	100	26° 46' 7.601" N	89° 8' 0.899" E
	101	26° 46' 6.476" N	89° 7' 59.181" E
	102	26° 46' 4.254" N	89° 7' 55.638" E
	103	26° 46' 2.483" N	89° 7' 52.955" E
	104	26° 46' 1.077" N	89° 7' 50.989" E
	105	26° 45' 57.938" N	89° 7' 47.067" E
	106	26° 45' 55.580" N	89° 7' 44.054" E
	107	26° 45' 55.021" N	89° 7' 40.854" E
	108	26° 45' 55.464" N	89° 7' 36.816" E
	109	26° 45' 53.831" N	89° 7' 31.907" E
	110	26° 45' 52.562" N	89° 7' 27.596" E
	111	26° 45' 51.884" N	89° 7' 25.294" E
	112	26° 45' 51.242" N	89° 7' 22.999" E
	113	26° 45' 50.682" N	89° 7' 22.126" E
	114	26° 45' 50.476" N	89° 7' 21.854" E
	115	26° 45' 49.480" N	89° 7' 20.536" E
	116	26° 45' 48.372" N	89° 7' 19.080" E
	117	26° 45' 48.282" N	89° 7' 18.958" E
	118	26° 45' 47.184" N	89° 7' 16.462" E
	119	26° 45' 42.470" N	89° 7' 8.354" E
	120	26° 45' 40.057" N	89° 7' 6.817" E
	121	26° 45' 39.790" N	89° 7' 6.610" E
	122	26° 45' 38.798" N	89° 7' 5.927" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	123	26° 45' 37.907" N	89° 7' 5.344" E
	124	26° 45' 37.749" N	89° 7' 5.347" E
	125	26° 45' 36.083" N	89° 7' 4.285" E
	126	26° 45' 28.465" N	89° 7' 3.546" E
	127	26° 45' 21.486" N	89° 7' 3.177" E
	128	26° 45' 17.224" N	89° 7' 0.704" E
	129	26° 45' 10.435" N	89° 6' 54.833" E
	130	26° 45' 2.992" N	89° 6' 49.548" E
	131	26° 44' 58.157" N	89° 6' 49.459" E
	132	26° 44' 52.580" N	89° 6' 48.757" E
	133	26° 44' 42.711" N	89° 6' 47.617" E
	134	26° 44' 38.973" N	89° 6' 46.769" E
	135	26° 44' 35.275" N	89° 6' 46.227" E
	136	26° 44' 31.068" N	89° 6' 45.610" E
	137	26° 44' 27.102" N	89° 6' 45.028" E
	138	26° 44' 9.772" N	89° 6' 42.488" E
	139	26° 43' 52.087" N	89° 6' 39.895" E
	140	26° 43' 52.049" N	89° 6' 38.685" E
AD_MD_MR_02	1	26° 45' 55.970" N	89° 7' 2.823" E
	2	26° 45' 54.854" N	89° 6' 58.368" E
	3	26° 45' 58.351" N	89° 6' 57.365" E
	4	26° 46' 5.880" N	89° 6' 55.446" E
	5	26° 46' 8.572" N	89° 6' 54.782" E
	6	26° 46' 9.210" N	89° 7' 0.425" E
	7	26° 46' 5.823" N	89° 7' 1.588" E
	8	26° 45' 59.344" N	89° 7' 2.541" E
AD_KG_JY_01	1	26° 41' 22.410" N	89° 37' 45.795" E
	2	26° 41' 19.840" N	89° 37' 47.620" E
	3	26° 41' 23.616" N	89° 37' 43.027" E
	4	26° 41' 34.977" N	89° 37' 27.948" E
	5	26° 41' 48.388" N	89° 37' 8.458" E
	6	26° 41' 59.718" N	89° 36' 56.197" E
	7	26° 42' 10.606" N	89° 36' 45.158" E
	8	26° 42' 14.208" N	89° 36' 41.784" E
	9	26° 42' 14.523" N	89° 36' 41.682" E
	10	26° 42' 18.813" N	89° 36' 40.294" E
	11	26° 42' 25.295" N	89° 36' 35.792" E
	12	26° 42' 32.432" N	89° 36' 31.055" E
	13	26° 42' 32.465" N	89° 36' 31.039" E
	14	26° 42' 38.141" N	89° 36' 28.267" E
	15	26° 42' 38.362" N	89° 36' 28.159" E
	16	26° 42' 38.799" N	89° 36' 27.946" E
	17	26° 42' 42.342" N	89° 36' 26.461" E
	18	26° 42' 44.685" N	89° 36' 26.617" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	19	26° 42' 46.629" N	89° 36' 26.680" E
	20	26° 42' 48.801" N	89° 36' 26.751" E
	21	26° 42' 51.588" N	89° 36' 27.004" E
	22	26° 42' 52.569" N	89° 36' 27.187" E
	23	26° 42' 52.910" N	89° 36' 27.328" E
	24	26° 42' 53.497" N	89° 36' 27.502" E
	25	26° 42' 59.361" N	89° 36' 29.887" E
	26	26° 43' 0.419" N	89° 36' 29.549" E
	27	26° 43' 0.934" N	89° 36' 29.913" E
	28	26° 43' 2.290" N	89° 36' 28.950" E
	29	26° 43' 2.871" N	89° 36' 28.538" E
	30	26° 43' 4.492" N	89° 36' 28.466" E
	31	26° 43' 7.730" N	89° 36' 28.183" E
	32	26° 43' 10.685" N	89° 36' 27.882" E
	33	26° 43' 12.099" N	89° 36' 27.721" E
	34	26° 43' 12.576" N	89° 36' 27.785" E
	35	26° 43' 15.811" N	89° 36' 27.141" E
	36	26° 43' 15.835" N	89° 36' 27.086" E
	37	26° 43' 18.846" N	89° 36' 31.817" E
	38	26° 43' 15.748" N	89° 36' 32.747" E
	39	26° 43' 9.489" N	89° 36' 34.429" E
	40	26° 43' 2.530" N	89° 36' 36.054" E
	41	26° 42' 53.411" N	89° 36' 38.786" E
	42	26° 42' 46.631" N	89° 36' 40.628" E
	43	26° 42' 38.225" N	89° 36' 45.549" E
	44	26° 42' 32.577" N	89° 36' 50.367" E
	45	26° 42' 28.472" N	89° 36' 51.527" E
	46	26° 42' 28.281" N	89° 36' 52.142" E
	47	26° 42' 26.699" N	89° 36' 51.101" E
	48	26° 42' 22.394" N	89° 36' 49.624" E
	49	26° 42' 20.118" N	89° 36' 50.032" E
	50	26° 42' 18.433" N	89° 36' 50.769" E
	51	26° 42' 14.888" N	89° 36' 50.761" E
	52	26° 42' 11.971" N	89° 36' 52.163" E
	53	26° 42' 11.456" N	89° 36' 52.462" E
	54	26° 42' 7.632" N	89° 36' 54.683" E
	55	26° 42' 5.161" N	89° 36' 57.210" E
	56	26° 42' 4.778" N	89° 36' 58.699" E
	57	26° 42' 0.683" N	89° 37' 2.767" E
	58	26° 41' 53.329" N	89° 37' 14.806" E
	59	26° 41' 52.559" N	89° 37' 15.245" E
	60	26° 41' 50.656" N	89° 37' 16.274" E
	61	26° 41' 49.471" N	89° 37' 18.022" E
	62	26° 41' 48.452" N	89° 37' 19.600" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	63	26° 41' 47.568" N	89° 37' 20.970" E
	64	26° 41' 46.052" N	89° 37' 24.156" E
	65	26° 41' 45.069" N	89° 37' 26.448" E
	66	26° 41' 44.171" N	89° 37' 27.409" E
	67	26° 41' 42.839" N	89° 37' 28.995" E
	68	26° 41' 42.441" N	89° 37' 29.130" E
	69	26° 41' 40.337" N	89° 37' 29.846" E
	70	26° 41' 37.940" N	89° 37' 32.344" E
	71	26° 41' 35.473" N	89° 37' 34.919" E
	72	26° 41' 32.581" N	89° 37' 37.251" E
	73	26° 41' 30.113" N	89° 37' 39.457" E
	74	26° 41' 27.720" N	89° 37' 41.450" E
	75	26° 41' 25.385" N	89° 37' 43.395" E
AD_KC_JY_02	1	26° 39' 33.801" N	89° 38' 47.747" E
	2	26° 39' 28.987" N	89° 38' 45.714" E
	3	26° 39' 30.248" N	89° 38' 44.820" E
	4	26° 39' 24.705" N	89° 38' 41.826" E
	5	26° 39' 25.169" N	89° 38' 41.506" E
	6	26° 39' 26.246" N	89° 38' 41.087" E
	7	26° 39' 27.655" N	89° 38' 40.542" E
	8	26° 39' 29.187" N	89° 38' 39.879" E
	9	26° 39' 30.598" N	89° 38' 39.616" E
	10	26° 39' 34.596" N	89° 38' 39.906" E
	11	26° 39' 35.473" N	89° 38' 38.391" E
	12	26° 39' 36.052" N	89° 38' 38.219" E
	13	26° 39' 37.400" N	89° 38' 37.820" E
	14	26° 39' 38.603" N	89° 38' 36.613" E
	15	26° 39' 40.069" N	89° 38' 34.935" E
	16	26° 39' 41.594" N	89° 38' 34.295" E
	17	26° 39' 42.716" N	89° 38' 33.868" E
	18	26° 39' 44.976" N	89° 38' 33.920" E
	19	26° 39' 49.960" N	89° 38' 31.970" E
	20	26° 39' 51.157" N	89° 38' 31.997" E
	21	26° 39' 58.318" N	89° 38' 32.793" E
	22	26° 40' 5.853" N	89° 38' 32.010" E
	23	26° 40' 10.224" N	89° 38' 28.045" E
	24	26° 40' 10.407" N	89° 38' 27.807" E
	25	26° 40' 11.375" N	89° 38' 27.532" E
	26	26° 40' 13.730" N	89° 38' 24.083" E
	27	26° 40' 15.525" N	89° 38' 21.167" E
	28	26° 40' 18.024" N	89° 38' 18.051" E
	29	26° 40' 20.166" N	89° 38' 16.123" E
	30	26° 40' 21.104" N	89° 38' 15.280" E
	31	26° 40' 21.714" N	89° 38' 14.740" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	32	26° 40' 28.625" N	89° 38' 9.096" E
	33	26° 40' 29.375" N	89° 38' 7.664" E
	34	26° 40' 30.115" N	89° 38' 6.981" E
	35	26° 40' 30.815" N	89° 38' 6.335" E
	36	26° 40' 34.346" N	89° 38' 3.274" E
	37	26° 40' 37.817" N	89° 38' 0.214" E
	38	26° 40' 41.971" N	89° 37' 56.675" E
	39	26° 40' 45.956" N	89° 37' 53.860" E
	40	26° 40' 49.520" N	89° 37' 51.373" E
	41	26° 40' 50.329" N	89° 37' 50.809" E
	42	26° 40' 56.301" N	89° 37' 48.206" E
	43	26° 41' 3.302" N	89° 37' 43.051" E
	44	26° 41' 4.156" N	89° 37' 42.599" E
	45	26° 41' 7.536" N	89° 37' 40.814" E
	46	26° 41' 10.355" N	89° 37' 39.280" E
	47	26° 41' 10.552" N	89° 37' 39.173" E
	48	26° 41' 13.464" N	89° 37' 37.568" E
	49	26° 41' 16.563" N	89° 37' 35.482" E
	50	26° 41' 20.003" N	89° 37' 47.150" E
	51	26° 41' 19.676" N	89° 37' 47.548" E
	52	26° 41' 19.362" N	89° 37' 47.771" E
	53	26° 41' 16.267" N	89° 37' 49.919" E
	54	26° 41' 13.213" N	89° 37' 51.910" E
	55	26° 41' 12.230" N	89° 37' 52.445" E
	56	26° 41' 9.914" N	89° 37' 53.706" E
	57	26° 41' 5.853" N	89° 37' 55.918" E
	58	26° 41' 2.906" N	89° 37' 57.914" E
	59	26° 40' 59.606" N	89° 38' 0.241" E
	60	26° 40' 59.301" N	89° 38' 0.234" E
	61	26° 40' 57.966" N	89° 38' 1.422" E
	62	26° 40' 55.556" N	89° 38' 3.232" E
	63	26° 40' 52.183" N	89° 38' 5.770" E
	64	26° 40' 48.978" N	89° 38' 8.462" E
	65	26° 40' 46.847" N	89° 38' 10.395" E
	66	26° 40' 42.125" N	89° 38' 11.081" E
	67	26° 40' 38.595" N	89° 38' 16.022" E
	68	26° 40' 37.968" N	89° 38' 17.166" E
	69	26° 40' 34.782" N	89° 38' 20.260" E
	70	26° 40' 34.598" N	89° 38' 20.438" E
	71	26° 40' 31.449" N	89° 38' 23.510" E
	72	26° 40' 31.432" N	89° 38' 23.527" E
	73	26° 40' 28.676" N	89° 38' 25.257" E
	74	26° 40' 28.770" N	89° 38' 24.406" E
	75	26° 40' 33.387" N	89° 38' 18.773" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	76	26° 40' 36.076" N	89° 38' 12.855" E
	77	26° 40' 36.156" N	89° 38' 8.552" E
	78	26° 40' 27.427" N	89° 38' 15.765" E
	79	26° 40' 20.815" N	89° 38' 24.702" E
	80	26° 40' 18.806" N	89° 38' 28.721" E
	81	26° 40' 21.157" N	89° 38' 30.034" E
	82	26° 40' 19.010" N	89° 38' 31.230" E
	83	26° 40' 14.989" N	89° 38' 33.432" E
	84	26° 40' 10.413" N	89° 38' 35.463" E
	85	26° 40' 7.993" N	89° 38' 36.716" E
	86	26° 40' 5.083" N	89° 38' 38.404" E
	87	26° 40' 1.187" N	89° 38' 40.679" E
	88	26° 39' 58.670" N	89° 38' 42.134" E
	89	26° 39' 58.246" N	89° 38' 42.144" E
	90	26° 39' 56.440" N	89° 38' 41.833" E
	91	26° 39' 55.019" N	89° 38' 41.603" E
	92	26° 39' 53.264" N	89° 38' 41.334" E
	93	26° 39' 52.297" N	89° 38' 41.173" E
	94	26° 39' 48.542" N	89° 38' 38.546" E
	95	26° 39' 47.896" N	89° 38' 38.665" E
	96	26° 39' 46.823" N	89° 38' 37.934" E
	97	26° 39' 45.855" N	89° 38' 38.544" E
	98	26° 39' 44.936" N	89° 38' 39.123" E
	99	26° 39' 44.756" N	89° 38' 39.240" E
	100	26° 39' 39.271" N	89° 38' 40.245" E
	101	26° 39' 35.614" N	89° 38' 45.260" E
AD_AD2_JY_03	1	26° 37' 10.924" N	89° 40' 24.108" E
	2	26° 37' 10.136" N	89° 40' 39.744" E
	3	26° 37' 8.723" N	89° 40' 38.395" E
	4	26° 37' 7.622" N	89° 40' 37.399" E
	5	26° 37' 7.206" N	89° 40' 35.503" E
	6	26° 36' 58.820" N	89° 40' 35.515" E
	7	26° 36' 56.320" N	89° 40' 36.090" E
	8	26° 36' 55.000" N	89° 40' 36.711" E
	9	26° 36' 53.063" N	89° 40' 37.007" E
	10	26° 36' 48.771" N	89° 40' 37.661" E
	11	26° 36' 46.682" N	89° 40' 37.916" E
	12	26° 36' 46.359" N	89° 40' 37.798" E
	13	26° 36' 44.659" N	89° 40' 37.174" E
	14	26° 36' 43.806" N	89° 40' 36.842" E
	15	26° 36' 43.143" N	89° 40' 35.420" E
	16	26° 36' 38.750" N	89° 40' 34.873" E
	17	26° 36' 36.432" N	89° 40' 34.011" E
	18	26° 36' 33.901" N	89° 40' 33.212" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	19	26° 36' 32.018" N	89° 40' 32.866" E
	20	26° 36' 30.061" N	89° 40' 32.787" E
	21	26° 36' 27.934" N	89° 40' 32.738" E
	22	26° 36' 27.020" N	89° 40' 33.282" E
	23	26° 36' 19.321" N	89° 40' 33.909" E
	24	26° 36' 18.341" N	89° 40' 40.340" E
	25	26° 36' 16.112" N	89° 40' 44.590" E
	26	26° 36' 11.922" N	89° 40' 46.952" E
	27	26° 36' 10.935" N	89° 40' 46.475" E
	28	26° 36' 9.616" N	89° 40' 47.292" E
	29	26° 36' 8.634" N	89° 40' 48.101" E
	30	26° 36' 6.881" N	89° 40' 48.061" E
	31	26° 36' 4.731" N	89° 40' 48.716" E
	32	26° 36' 2.994" N	89° 40' 49.681" E
	33	26° 36' 2.719" N	89° 40' 49.838" E
	34	26° 36' 2.039" N	89° 40' 49.678" E
	35	26° 36' 0.258" N	89° 40' 49.907" E
	36	26° 35' 57.915" N	89° 40' 49.262" E
	37	26° 35' 53.010" N	89° 40' 50.505" E
	38	26° 35' 49.156" N	89° 40' 52.789" E
	39	26° 35' 48.883" N	89° 40' 52.841" E
	40	26° 35' 46.559" N	89° 40' 53.261" E
	41	26° 35' 45.131" N	89° 40' 53.520" E
	42	26° 35' 43.121" N	89° 40' 55.207" E
	43	26° 35' 41.135" N	89° 40' 55.119" E
	44	26° 35' 39.025" N	89° 40' 55.070" E
	45	26° 35' 36.907" N	89° 40' 54.964" E
	46	26° 35' 34.775" N	89° 40' 54.918" E
	47	26° 35' 32.572" N	89° 40' 54.869" E
	48	26° 35' 30.153" N	89° 40' 54.839" E
	49	26° 35' 27.575" N	89° 40' 54.791" E
	50	26° 35' 27.304" N	89° 40' 54.781" E
	51	26° 35' 27.806" N	89° 40' 53.980" E
	52	26° 35' 28.276" N	89° 40' 51.840" E
	53	26° 35' 22.508" N	89° 40' 50.033" E
	54	26° 35' 14.258" N	89° 40' 52.880" E
	55	26° 35' 13.256" N	89° 40' 52.286" E
	56	26° 35' 15.269" N	89° 40' 46.519" E
	57	26° 35' 17.466" N	89° 40' 45.623" E
	58	26° 35' 18.745" N	89° 40' 44.547" E
	59	26° 35' 20.181" N	89° 40' 44.539" E
	60	26° 35' 23.597" N	89° 40' 45.249" E
	61	26° 35' 24.084" N	89° 40' 45.702" E
	62	26° 35' 24.333" N	89° 40' 45.932" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	63	26° 35' 25.066" N	89° 40' 45.915" E
	64	26° 35' 25.208" N	89° 40' 45.999" E
	65	26° 35' 27.098" N	89° 40' 47.116" E
	66	26° 35' 27.720" N	89° 40' 47.130" E
	67	26° 35' 30.305" N	89° 40' 46.779" E
	68	26° 35' 32.577" N	89° 40' 46.345" E
	69	26° 35' 34.963" N	89° 40' 46.400" E
	70	26° 35' 36.837" N	89° 40' 46.368" E
	71	26° 35' 39.285" N	89° 40' 46.449" E
	72	26° 35' 41.319" N	89° 40' 46.771" E
	73	26° 35' 43.147" N	89° 40' 47.057" E
	74	26° 35' 44.837" N	89° 40' 47.064" E
	75	26° 35' 46.064" N	89° 40' 46.639" E
	76	26° 35' 46.134" N	89° 40' 46.615" E
	77	26° 35' 47.041" N	89° 40' 46.301" E
	78	26° 35' 48.036" N	89° 40' 45.957" E
	79	26° 35' 50.095" N	89° 40' 45.228" E
	80	26° 35' 51.983" N	89° 40' 44.567" E
	81	26° 35' 54.147" N	89° 40' 44.357" E
	82	26° 35' 56.073" N	89° 40' 44.172" E
	83	26° 35' 57.610" N	89° 40' 43.989" E
	84	26° 35' 57.824" N	89° 40' 44.039" E
	85	26° 35' 58.812" N	89° 40' 44.267" E
	86	26° 35' 58.832" N	89° 40' 44.272" E
	87	26° 36' 0.057" N	89° 40' 44.552" E
	88	26° 36' 0.574" N	89° 40' 44.229" E
	89	26° 36' 1.077" N	89° 40' 44.041" E
	90	26° 36' 1.544" N	89° 40' 44.211" E
	91	26° 36' 4.390" N	89° 40' 43.138" E
	92	26° 36' 6.628" N	89° 40' 44.835" E
	93	26° 36' 6.868" N	89° 40' 44.853" E
	94	26° 36' 11.826" N	89° 40' 44.012" E
	95	26° 36' 12.320" N	89° 40' 40.922" E
	96	26° 36' 13.340" N	89° 40' 40.866" E
	97	26° 36' 13.699" N	89° 40' 38.398" E
	98	26° 36' 14.048" N	89° 40' 35.227" E
	99	26° 36' 14.469" N	89° 40' 31.289" E
	100	26° 36' 15.926" N	89° 40' 28.289" E
	101	26° 36' 17.966" N	89° 40' 27.187" E
	102	26° 36' 21.548" N	89° 40' 25.350" E
	103	26° 36' 24.269" N	89° 40' 25.100" E
	104	26° 36' 25.179" N	89° 40' 25.017" E
	105	26° 36' 28.283" N	89° 40' 24.785" E
	106	26° 36' 28.636" N	89° 40' 24.678" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	107	26° 36' 28.761" N	89° 40' 24.641" E
	108	26° 36' 33.667" N	89° 40' 25.160" E
	109	26° 36' 38.405" N	89° 40' 24.553" E
	110	26° 36' 43.748" N	89° 40' 26.112" E
	111	26° 36' 45.156" N	89° 40' 26.407" E
	112	26° 36' 45.889" N	89° 40' 26.857" E
	113	26° 36' 47.486" N	89° 40' 27.514" E
	114	26° 36' 48.796" N	89° 40' 27.904" E
	115	26° 36' 52.781" N	89° 40' 27.594" E
	116	26° 36' 53.492" N	89° 40' 27.523" E
	117	26° 36' 55.582" N	89° 40' 27.675" E
	118	26° 36' 56.826" N	89° 40' 27.438" E
	119	26° 37' 0.005" N	89° 40' 27.336" E
	120	26° 37' 1.498" N	89° 40' 26.771" E
	121	26° 37' 2.283" N	89° 40' 26.707" E
	122	26° 37' 3.579" N	89° 40' 26.601" E
	123	26° 37' 7.820" N	89° 40' 25.968" E
	124	26° 37' 9.184" N	89° 40' 25.018" E
	125	26° 37' 10.345" N	89° 40' 24.227" E
AD_AD2_DL_03	1	26° 31' 25.494" N	89° 43' 28.243" E
	2	26° 31' 25.131" N	89° 43' 26.545" E
	3	26° 31' 28.207" N	89° 43' 25.675" E
	4	26° 31' 34.176" N	89° 43' 28.538" E
	5	26° 31' 35.514" N	89° 43' 31.785" E
	6	26° 31' 33.695" N	89° 43' 36.527" E
	7	26° 31' 32.025" N	89° 43' 30.353" E
	8	26° 31' 27.418" N	89° 43' 28.582" E
AD_KG_DL_05	1	26° 30' 34.911" N	89° 43' 20.257" E
	2	26° 30' 34.482" N	89° 43' 18.926" E
	3	26° 30' 39.432" N	89° 43' 16.450" E
	4	26° 30' 42.667" N	89° 43' 18.477" E
	5	26° 30' 46.325" N	89° 43' 21.630" E
	6	26° 30' 48.379" N	89° 43' 25.602" E
	7	26° 30' 47.887" N	89° 43' 25.475" E
	8	26° 30' 47.112" N	89° 43' 24.915" E
	9	26° 30' 41.319" N	89° 43' 21.125" E
	10	26° 30' 37.597" N	89° 43' 20.249" E
AD_KG_RD1_01	1	26° 30' 28.479" N	89° 43' 15.699" E
	2	26° 30' 26.913" N	89° 43' 13.274" E
	3	26° 30' 27.930" N	89° 43' 10.671" E
	4	26° 30' 31.911" N	89° 43' 8.606" E
	5	26° 30' 32.034" N	89° 43' 9.118" E
	6	26° 30' 34.685" N	89° 43' 10.923" E
	7	26° 30' 36.853" N	89° 43' 15.308" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	8	26° 30' 36.966" N	89° 43' 15.661" E
	9	26° 30' 32.254" N	89° 43' 16.985" E
	10	26° 30' 28.479" N	89° 43' 15.699" E
AD_KG_RD1_02	1	26° 30' 33.232" N	89° 43' 5.612" E
	2	26° 30' 27.219" N	89° 43' 8.505" E
	3	26° 30' 29.099" N	89° 43' 5.684" E
	4	26° 30' 29.257" N	89° 43' 1.653" E
	5	26° 30' 29.570" N	89° 43' 0.644" E
	6	26° 30' 29.450" N	89° 42' 59.250" E
	7	26° 30' 29.560" N	89° 42' 58.411" E
	8	26° 30' 29.212" N	89° 42' 56.492" E
	9	26° 30' 27.908" N	89° 42' 49.297" E
	10	26° 30' 30.068" N	89° 42' 52.779" E
	11	26° 30' 30.933" N	89° 42' 52.686" E
	12	26° 30' 32.544" N	89° 42' 54.730" E
	13	26° 30' 34.045" N	89° 42' 57.115" E
	14	26° 30' 34.785" N	89° 42' 58.909" E
	15	26° 30' 35.087" N	89° 43' 2.011" E
	16	26° 30' 34.544" N	89° 43' 3.431" E
	17	26° 30' 34.016" N	89° 43' 4.050" E
	18	26° 30' 33.399" N	89° 43' 4.430" E
AD_KG_RD1_03	1	26° 30' 29.038" N	89° 42' 46.338" E
	2	26° 30' 28.531" N	89° 42' 44.774" E
	3	26° 30' 29.202" N	89° 42' 43.357" E
	4	26° 30' 30.616" N	89° 42' 42.435" E
	5	26° 30' 33.402" N	89° 42' 41.369" E
	6	26° 30' 32.269" N	89° 42' 45.937" E
	7	26° 30' 31.010" N	89° 42' 50.032" E
AD_KG_RD1_04	1	26° 30' 37.220" N	89° 42' 37.225" E
	2	26° 30' 33.152" N	89° 42' 39.032" E
	3	26° 30' 32.291" N	89° 42' 39.131" E
	4	26° 30' 32.721" N	89° 42' 38.752" E
	5	26° 30' 35.647" N	89° 42' 37.120" E
	6	26° 30' 37.123" N	89° 42' 35.172" E
	7	26° 30' 37.021" N	89° 42' 32.638" E
	8	26° 30' 34.773" N	89° 42' 28.836" E
	9	26° 30' 30.796" N	89° 42' 25.543" E
	10	26° 30' 25.823" N	89° 42' 24.924" E
	11	26° 30' 24.587" N	89° 42' 24.394" E
	12	26° 30' 21.202" N	89° 42' 24.919" E
	13	26° 30' 24.410" N	89° 42' 22.409" E
	14	26° 30' 31.441" N	89° 42' 21.677" E
	15	26° 30' 34.299" N	89° 42' 23.894" E
	16	26° 30' 37.667" N	89° 42' 27.555" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	17	26° 30' 39.910" N	89° 42' 33.936" E
AD_KC_GJ_01	1	26° 50' 13.703" N	89° 24' 35.582" E
	2	26° 50' 13.411" N	89° 24' 36.019" E
	3	26° 50' 13.410" N	89° 24' 36.422" E
	4	26° 50' 12.998" N	89° 24' 37.281" E
	5	26° 50' 12.606" N	89° 24' 37.882" E
	6	26° 50' 12.334" N	89° 24' 38.422" E
	7	26° 50' 11.586" N	89° 24' 40.258" E
	8	26° 50' 11.020" N	89° 24' 41.384" E
	9	26° 50' 10.113" N	89° 24' 41.928" E
	10	26° 50' 8.545" N	89° 24' 43.436" E
	11	26° 50' 7.125" N	89° 24' 44.164" E
	12	26° 50' 5.838" N	89° 24' 44.452" E
	13	26° 50' 4.082" N	89° 24' 44.068" E
	14	26° 50' 2.429" N	89° 24' 43.949" E
	15	26° 50' 1.600" N	89° 24' 43.979" E
	16	26° 50' 1.367" N	89° 24' 43.957" E
	17	26° 50' 0.419" N	89° 24' 43.868" E
	18	26° 49' 59.960" N	89° 24' 43.822" E
	19	26° 49' 59.950" N	89° 24' 43.817" E
	20	26° 49' 58.826" N	89° 24' 43.252" E
	21	26° 49' 58.755" N	89° 24' 43.199" E
	22	26° 49' 58.135" N	89° 24' 42.825" E
	23	26° 49' 57.778" N	89° 24' 42.609" E
	24	26° 49' 56.486" N	89° 24' 41.783" E
	25	26° 49' 55.200" N	89° 24' 41.151" E
	26	26° 49' 55.969" N	89° 24' 39.740" E
	27	26° 49' 57.259" N	89° 24' 40.046" E
	28	26° 49' 57.945" N	89° 24' 40.129" E
	29	26° 49' 58.850" N	89° 24' 40.294" E
	30	26° 50' 0.088" N	89° 24' 40.688" E
	31	26° 50' 2.419" N	89° 24' 41.121" E
	32	26° 50' 6.694" N	89° 24' 40.407" E
	33	26° 50' 8.633" N	89° 24' 39.643" E
	34	26° 50' 9.060" N	89° 24' 39.297" E
	35	26° 50' 9.146" N	89° 24' 38.772" E
	36	26° 50' 9.649" N	89° 24' 38.026" E
	37	26° 50' 10.083" N	89° 24' 37.259" E
	38	26° 50' 10.268" N	89° 24' 36.496" E
	39	26° 50' 10.489" N	89° 24' 36.123" E
	40	26° 50' 11.067" N	89° 24' 35.258" E
	41	26° 50' 12.631" N	89° 24' 32.992" E
	42	26° 50' 14.234" N	89° 24' 31.224" E
	43	26° 50' 14.769" N	89° 24' 30.898" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	44	26° 50' 15.150" N	89° 24' 30.451" E
	45	26° 50' 15.816" N	89° 24' 29.612" E
	46	26° 50' 16.646" N	89° 24' 28.557" E
	47	26° 50' 17.261" N	89° 24' 27.875" E
	48	26° 50' 17.307" N	89° 24' 27.929" E
	49	26° 50' 17.904" N	89° 24' 28.789" E
	50	26° 50' 17.767" N	89° 24' 28.898" E
	51	26° 50' 17.503" N	89° 24' 29.107" E
	52	26° 50' 16.633" N	89° 24' 30.329" E
	53	26° 50' 16.623" N	89° 24' 30.344" E
	54	26° 50' 16.313" N	89° 24' 30.802" E
	55	26° 50' 15.805" N	89° 24' 31.563" E
	56	26° 50' 15.115" N	89° 24' 33.169" E
	57	26° 50' 15.062" N	89° 24' 33.291" E
	58	26° 50' 14.169" N	89° 24' 34.249" E
	59	26° 50' 13.822" N	89° 24' 34.960" E
	60	26° 50' 13.712" N	89° 24' 35.536" E
AD_MD_PG_01	1	26° 44' 16.341" N	89° 10' 7.791" E
	2	26° 44' 16.894" N	89° 10' 7.808" E
	3	26° 44' 19.990" N	89° 10' 8.048" E
	4	26° 44' 22.296" N	89° 10' 8.221" E
	5	26° 44' 24.347" N	89° 10' 8.391" E
	6	26° 44' 25.669" N	89° 10' 7.658" E
	7	26° 44' 27.508" N	89° 10' 6.617" E
	8	26° 44' 28.699" N	89° 10' 6.508" E
	9	26° 44' 31.133" N	89° 10' 6.254" E
	10	26° 44' 33.453" N	89° 10' 5.923" E
	11	26° 44' 35.322" N	89° 10' 5.725" E
	12	26° 44' 37.108" N	89° 10' 5.861" E
	13	26° 44' 39.333" N	89° 10' 6.032" E
	14	26° 44' 40.932" N	89° 10' 6.703" E
	15	26° 44' 42.883" N	89° 10' 7.524" E
	16	26° 44' 44.362" N	89° 10' 8.145" E
	17	26° 44' 46.294" N	89° 10' 8.786" E
	18	26° 44' 48.168" N	89° 10' 9.412" E
	19	26° 44' 48.795" N	89° 10' 9.441" E
	20	26° 44' 50.086" N	89° 10' 9.502" E
	21	26° 44' 51.813" N	89° 10' 9.584" E
	22	26° 44' 53.705" N	89° 10' 9.673" E
	23	26° 44' 55.440" N	89° 10' 8.946" E
	24	26° 44' 57.127" N	89° 10' 8.218" E
	25	26° 44' 57.678" N	89° 10' 8.277" E
	26	26° 45' 0.163" N	89° 10' 8.433" E
	27	26° 45' 2.498" N	89° 10' 8.581" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	28	26° 45' 4.055" N	89° 10' 9.699" E
	29	26° 45' 5.716" N	89° 10' 10.685" E
	30	26° 45' 8.479" N	89° 10' 10.959" E
	31	26° 45' 8.715" N	89° 10' 10.980" E
	32	26° 45' 10.974" N	89° 10' 11.183" E
	33	26° 45' 13.293" N	89° 10' 11.395" E
	34	26° 45' 15.496" N	89° 10' 11.636" E
	35	26° 45' 15.903" N	89° 10' 11.630" E
	36	26° 45' 17.267" N	89° 10' 11.611" E
	37	26° 45' 17.772" N	89° 10' 10.253" E
	38	26° 45' 19.278" N	89° 10' 10.158" E
	39	26° 45' 21.840" N	89° 10' 9.913" E
	40	26° 45' 24.633" N	89° 10' 9.640" E
	41	26° 45' 26.829" N	89° 10' 10.607" E
	42	26° 45' 29.098" N	89° 10' 11.529" E
	43	26° 45' 31.380" N	89° 10' 12.538" E
	44	26° 45' 31.898" N	89° 10' 12.768" E
	45	26° 45' 33.079" N	89° 10' 13.293" E
	46	26° 45' 31.799" N	89° 10' 16.407" E
	47	26° 45' 30.542" N	89° 10' 16.103" E
	48	26° 45' 28.865" N	89° 10' 15.700" E
	49	26° 45' 27.785" N	89° 10' 15.441" E
	50	26° 45' 25.223" N	89° 10' 15.436" E
	51	26° 45' 23.680" N	89° 10' 15.368" E
	52	26° 45' 21.658" N	89° 10' 15.499" E
	53	26° 45' 19.139" N	89° 10' 15.657" E
	54	26° 45' 17.579" N	89° 10' 15.415" E
	55	26° 45' 16.583" N	89° 10' 15.381" E
	56	26° 45' 15.310" N	89° 10' 15.523" E
	57	26° 45' 13.144" N	89° 10' 15.402" E
	58	26° 45' 11.098" N	89° 10' 15.703" E
	59	26° 45' 8.623" N	89° 10' 16.233" E
	60	26° 45' 7.116" N	89° 10' 16.384" E
	61	26° 45' 5.238" N	89° 10' 16.573" E
	62	26° 45' 2.786" N	89° 10' 16.742" E
	63	26° 45' 1.065" N	89° 10' 15.979" E
	64	26° 44' 58.891" N	89° 10' 15.217" E
	65	26° 44' 58.488" N	89° 10' 15.076" E
	66	26° 44' 56.589" N	89° 10' 14.412" E
	67	26° 44' 55.645" N	89° 10' 14.055" E
	68	26° 44' 54.437" N	89° 10' 13.835" E
	69	26° 44' 52.898" N	89° 10' 13.610" E
	70	26° 44' 51.071" N	89° 10' 13.201" E
	71	26° 44' 49.404" N	89° 10' 12.828" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	72	26° 44' 47.553" N	89° 10' 12.414" E
	73	26° 44' 45.829" N	89° 10' 11.954" E
	74	26° 44' 43.696" N	89° 10' 11.390" E
	75	26° 44' 42.079" N	89° 10' 11.058" E
	76	26° 44' 40.195" N	89° 10' 10.721" E
	77	26° 44' 38.602" N	89° 10' 10.439" E
	78	26° 44' 36.632" N	89° 10' 10.189" E
	79	26° 44' 35.256" N	89° 10' 10.017" E
	80	26° 44' 34.474" N	89° 10' 10.308" E
	81	26° 44' 33.592" N	89° 10' 10.637" E
	82	26° 44' 31.351" N	89° 10' 11.493" E
	83	26° 44' 29.699" N	89° 10' 11.803" E
	84	26° 44' 27.668" N	89° 10' 11.765" E
	85	26° 44' 25.817" N	89° 10' 11.974" E
	86	26° 44' 25.803" N	89° 10' 11.975" E
	87	26° 44' 24.289" N	89° 10' 12.131" E
	88	26° 44' 22.480" N	89° 10' 12.175" E
	89	26° 44' 19.752" N	89° 10' 12.289" E
	90	26° 44' 16.672" N	89° 10' 12.446" E
	91	26° 44' 16.250" N	89° 10' 12.482" E
AD_MD_PG_01A	1	26° 43' 13.485" N	89° 9' 51.752" E
	2	26° 43' 13.853" N	89° 9' 52.458" E
	3	26° 43' 3.732" N	89° 9' 53.262" E
	4	26° 42' 57.149" N	89° 9' 49.729" E
	5	26° 42' 51.360" N	89° 9' 48.280" E
	6	26° 42' 47.996" N	89° 9' 47.238" E
	7	26° 42' 44.379" N	89° 9' 46.118" E
	8	26° 42' 41.221" N	89° 9' 43.493" E
	9	26° 42' 42.333" N	89° 9' 42.710" E
	10	26° 42' 46.634" N	89° 9' 45.024" E
	11	26° 42' 48.643" N	89° 9' 46.010" E
	12	26° 42' 56.145" N	89° 9' 47.889" E
	13	26° 43' 0.913" N	89° 9' 49.788" E
	14	26° 43' 4.946" N	89° 9' 50.812" E
	15	26° 43' 12.013" N	89° 9' 51.023" E
	16	26° 43' 13.178" N	89° 9' 51.166" E
AD_KC_KJ_01	1	26° 47' 59.937" N	89° 24' 52.961" E
	2	26° 47' 54.394" N	89° 24' 50.316" E
	3	26° 47' 7.353" N	89° 24' 31.114" E
	4	26° 46' 25.025" N	89° 24' 18.146" E
	5	26° 45' 56.358" N	89° 24' 13.860" E
	6	26° 45' 33.236" N	89° 24' 28.326" E
	7	26° 45' 38.446" N	89° 24' 24.751" E
	8	26° 45' 38.057" N	89° 24' 22.349" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	9	26° 45' 23.085" N	89° 24' 30.890" E
	10	26° 45' 27.162" N	89° 24' 31.106" E
	11	26° 45' 15.060" N	89° 24' 36.958" E
	12	26° 45' 8.549" N	89° 24' 39.184" E
	13	26° 45' 9.033" N	89° 24' 35.860" E
	14	26° 44' 55.690" N	89° 24' 37.014" E
	15	26° 45' 4.441" N	89° 24' 40.550" E
	16	26° 45' 4.450" N	89° 24' 40.584" E
	17	26° 44' 57.396" N	89° 24' 42.769" E
	18	26° 44' 53.907" N	89° 24' 40.806" E
	19	26° 44' 48.446" N	89° 24' 44.517" E
	20	26° 44' 33.603" N	89° 24' 49.083" E
	21	26° 44' 4.880" N	89° 24' 53.026" E
	22	26° 43' 9.716" N	89° 25' 5.266" E
	23	26° 43' 12.114" N	89° 25' 3.283" E
	24	26° 43' 9.336" N	89° 25' 2.386" E
	25	26° 43' 1.379" N	89° 25' 2.697" E
	26	26° 42' 58.917" N	89° 25' 8.317" E
	27	26° 42' 50.911" N	89° 25' 9.463" E
	28	26° 42' 46.904" N	89° 25' 7.296" E
	29	26° 42' 40.457" N	89° 25' 9.472" E
	30	26° 42' 28.813" N	89° 25' 7.658" E
	31	26° 42' 17.701" N	89° 25' 7.554" E
	32	26° 41' 55.605" N	89° 25' 5.786" E
	33	26° 41' 58.154" N	89° 25' 5.548" E
	34	26° 42' 3.958" N	89° 24' 59.091" E
	35	26° 41' 50.192" N	89° 25' 0.117" E
	36	26° 41' 33.162" N	89° 24' 39.713" E
	37	26° 41' 35.158" N	89° 24' 36.726" E
	38	26° 41' 46.906" N	89° 24' 42.925" E
	39	26° 42' 6.635" N	89° 24' 47.013" E
	40	26° 42' 17.726" N	89° 24' 43.119" E
	41	26° 42' 29.414" N	89° 24' 44.883" E
	42	26° 42' 41.829" N	89° 24' 38.483" E
	43	26° 42' 52.971" N	89° 24' 38.115" E
	44	26° 43' 6.954" N	89° 24' 28.284" E
	45	26° 43' 16.238" N	89° 24' 30.712" E
	46	26° 43' 38.845" N	89° 24' 33.159" E
	47	26° 43' 47.083" N	89° 24' 32.320" E
	48	26° 43' 53.157" N	89° 24' 36.109" E
	49	26° 44' 4.974" N	89° 24' 39.157" E
	50	26° 44' 10.054" N	89° 24' 38.093" E
	52	26° 44' 14.183" N	89° 24' 39.011" E
	53	26° 44' 34.299" N	89° 24' 31.298" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	54	26° 44' 40.962" N	89° 24' 31.199" E
	55	26° 44' 47.364" N	89° 24' 23.173" E
	56	26° 45' 15.281" N	89° 24' 6.661" E
	57	26° 45' 26.282" N	89° 24' 0.801" E
	58	26° 45' 35.994" N	89° 23' 57.810" E
	59	26° 45' 46.129" N	89° 23' 56.702" E
	60	26° 46' 3.372" N	89° 23' 56.567" E
	61	26° 46' 18.610" N	89° 24' 2.650" E
	62	26° 46' 33.202" N	89° 24' 3.878" E
	63	26° 47' 13.908" N	89° 24' 13.143" E
	64	26° 47' 31.861" N	89° 24' 27.429" E
	65	26° 47' 52.428" N	89° 24' 34.671" E
	66	26° 48' 7.393" N	89° 24' 39.855" E
	67	26° 48' 11.973" N	89° 24' 44.275" E
	68	26° 48' 27.345" N	89° 24' 50.109" E
	69	26° 48' 37.442" N	89° 24' 51.879" E
	70	26° 48' 58.024" N	89° 25' 1.375" E
	71	26° 49' 23.740" N	89° 25' 13.791" E
	72	26° 49' 40.871" N	89° 25' 34.217" E
	73	26° 49' 52.665" N	89° 26' 4.733" E
	74	26° 50' 10.725" N	89° 26' 25.538" E
	75	26° 49' 59.672" N	89° 26' 35.807" E
	76	26° 49' 52.739" N	89° 26' 30.429" E
	77	26° 49' 43.479" N	89° 26' 13.599" E
	78	26° 49' 39.206" N	89° 26' 3.552" E
	79	26° 49' 4.411" N	89° 25' 19.205" E
	80	26° 48' 28.130" N	89° 25' 6.359" E
	81	26° 45' 7.497" N	89° 24' 25.056" E
	82	26° 45' 7.558" N	89° 24' 29.075" E
	83	26° 45' 20.402" N	89° 24' 24.371" E
	84	26° 45' 38.009" N	89° 24' 12.534" E
	85	26° 45' 24.273" N	89° 24' 11.527" E
	86	26° 43' 33.451" N	89° 24' 40.641" E
	87	26° 43' 21.756" N	89° 24' 39.677" E
	88	26° 43' 5.285" N	89° 24' 35.261" E
	89	26° 42' 50.886" N	89° 24' 41.658" E
	90	26° 42' 46.662" N	89° 24' 49.944" E
	91	26° 42' 38.386" N	89° 24' 50.128" E
	92	26° 42' 25.533" N	89° 24' 54.044" E
	93	26° 42' 10.431" N	89° 24' 57.553" E
	94	26° 42' 9.637" N	89° 25' 0.049" E
	95	26° 42' 18.383" N	89° 25' 3.822" E
	96	26° 42' 33.273" N	89° 25' 6.410" E
	97	26° 42' 37.148" N	89° 25' 6.013" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	98	26° 42' 47.471" N	89° 24' 59.782" E
	99	26° 42' 54.845" N	89° 25' 7.823" E
	100	26° 42' 57.751" N	89° 25' 7.526" E
	101	26° 42' 59.081" N	89° 25' 5.161" E
	102	26° 42' 59.732" N	89° 24' 58.475" E
	103	26° 43' 7.757" N	89° 25' 0.439" E
	104	26° 43' 12.394" N	89° 24' 59.460" E
	105	26° 43' 21.086" N	89° 25' 0.122" E
	106	26° 43' 29.065" N	89° 24' 55.687" E
	107	26° 43' 48.491" N	89° 24' 47.061" E
	108	26° 43' 45.533" N	89° 24' 44.127" E
	109	26° 41' 49.968" N	89° 24' 54.131" E
	110	26° 42' 2.163" N	89° 24' 57.259" E
AD_KC_KJ_02	1	26° 47' 26.411" N	89° 28' 5.937" E
	2	26° 47' 26.447" N	89° 28' 5.908" E
	3	26° 47' 28.805" N	89° 28' 7.286" E
	4	26° 47' 30.327" N	89° 28' 6.783" E
	5	26° 47' 29.065" N	89° 28' 4.675" E
	6	26° 47' 29.542" N	89° 28' 4.490" E
	7	26° 47' 31.968" N	89° 28' 3.545" E
	8	26° 47' 32.502" N	89° 28' 4.726" E
	9	26° 47' 34.253" N	89° 28' 7.829" E
	10	26° 47' 37.212" N	89° 28' 10.671" E
	11	26° 47' 42.298" N	89° 28' 14.708" E
	12	26° 47' 46.293" N	89° 28' 17.285" E
	13	26° 47' 48.685" N	89° 28' 18.103" E
	14	26° 47' 50.909" N	89° 28' 18.726" E
	15	26° 47' 45.308" N	89° 28' 9.697" E
	16	26° 47' 39.050" N	89° 28' 0.787" E
	17	26° 47' 41.623" N	89° 28' 0.000" E
	18	26° 47' 43.765" N	89° 27' 59.335" E
	19	26° 47' 43.778" N	89° 27' 59.331" E
	20	26° 47' 43.790" N	89° 27' 59.344" E
	21	26° 47' 43.921" N	89° 27' 59.502" E
	22	26° 47' 44.931" N	89° 28' 0.716" E
	23	26° 47' 46.379" N	89° 28' 2.454" E
	24	26° 47' 48.888" N	89° 28' 6.086" E
	25	26° 47' 49.312" N	89° 28' 6.689" E
	26	26° 47' 51.175" N	89° 28' 9.346" E
	27	26° 47' 53.299" N	89° 28' 12.379" E
	28	26° 47' 54.206" N	89° 28' 16.007" E
	29	26° 47' 54.794" N	89° 28' 18.232" E
	30	26° 47' 55.935" N	89° 28' 19.328" E
	31	26° 47' 57.034" N	89° 28' 22.402" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	32	26° 48' 2.194" N	89° 28' 27.112" E
	33	26° 48' 6.674" N	89° 28' 31.423" E
	34	26° 48' 10.033" N	89° 28' 32.165" E
	35	26° 48' 9.807" N	89° 28' 38.583" E
	36	26° 48' 9.648" N	89° 28' 38.464" E
	37	26° 48' 9.686" N	89° 28' 38.028" E
	38	26° 48' 8.130" N	89° 28' 37.323" E
	39	26° 48' 7.440" N	89° 28' 36.804" E
	40	26° 48' 5.597" N	89° 28' 35.464" E
	41	26° 48' 5.657" N	89° 28' 34.581" E
	42	26° 48' 4.223" N	89° 28' 33.975" E
	43	26° 48' 2.865" N	89° 28' 33.553" E
	44	26° 47' 59.444" N	89° 28' 29.335" E
	45	26° 47' 56.930" N	89° 28' 29.689" E
	46	26° 47' 56.061" N	89° 28' 28.856" E
	47	26° 47' 55.065" N	89° 28' 26.823" E
	48	26° 47' 53.788" N	89° 28' 26.163" E
	49	26° 47' 52.187" N	89° 28' 26.301" E
	50	26° 47' 49.621" N	89° 28' 23.582" E
	51	26° 47' 48.057" N	89° 28' 22.745" E
	52	26° 47' 46.702" N	89° 28' 21.547" E
	53	26° 47' 43.715" N	89° 28' 19.419" E
	54	26° 47' 41.709" N	89° 28' 18.030" E
	55	26° 47' 40.528" N	89° 28' 17.212" E
	56	26° 47' 37.384" N	89° 28' 14.984" E
	57	26° 47' 34.666" N	89° 28' 13.005" E
	58	26° 47' 31.984" N	89° 28' 11.123" E
	59	26° 47' 29.193" N	89° 28' 8.507" E
	60	26° 47' 27.505" N	89° 28' 6.948" E
	61	26° 47' 26.411" N	89° 28' 5.937" E
	62	26° 47' 47.148" N	89° 28' 7.725" E
	63	26° 47' 45.634" N	89° 28' 8.746" E
	64	26° 47' 47.696" N	89° 28' 11.779" E
	65	26° 47' 48.910" N	89° 28' 13.127" E
	66	26° 47' 49.827" N	89° 28' 11.806" E
AD_KC_KJ_03	1	26° 47' 26.411" N	89° 28' 5.937" E
	2	26° 47' 26.263" N	89° 28' 5.800" E
	3	26° 47' 26.447" N	89° 28' 5.908" E
	4	26° 47' 26.411" N	89° 28' 5.937" E
	5	26° 47' 21.946" N	89° 27' 48.983" E
	6	26° 47' 19.530" N	89° 27' 48.811" E
	7	26° 47' 21.957" N	89° 27' 53.883" E
	8	26° 47' 24.858" N	89° 27' 57.087" E
	9	26° 47' 29.783" N	89° 28' 2.480" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	10	26° 47' 31.968" N	89° 28' 3.545" E
	11	26° 47' 29.542" N	89° 28' 4.490" E
	12	26° 47' 29.065" N	89° 28' 4.675" E
	13	26° 47' 28.189" N	89° 28' 3.212" E
	14	26° 47' 25.745" N	89° 28' 1.397" E
	15	26° 47' 23.297" N	89° 27' 59.811" E
	16	26° 47' 21.904" N	89° 28' 0.854" E
	17	26° 47' 21.942" N	89° 28' 1.097" E
	18	26° 47' 19.741" N	89° 27' 59.171" E
	19	26° 47' 16.336" N	89° 27' 56.302" E
	20	26° 47' 11.801" N	89° 27' 53.016" E
	21	26° 47' 9.559" N	89° 27' 51.450" E
	22	26° 47' 8.295" N	89° 27' 50.567" E
	23	26° 47' 6.071" N	89° 27' 49.044" E
	24	26° 47' 5.471" N	89° 27' 49.091" E
	25	26° 47' 3.341" N	89° 27' 49.260" E
	26	26° 47' 1.788" N	89° 27' 48.487" E
	27	26° 46' 58.542" N	89° 27' 47.204" E
	28	26° 46' 54.879" N	89° 27' 43.043" E
	29	26° 46' 53.007" N	89° 27' 40.843" E
	30	26° 46' 52.629" N	89° 27' 40.399" E
	31	26° 46' 51.508" N	89° 27' 39.463" E
	32	26° 46' 49.508" N	89° 27' 37.791" E
	33	26° 46' 47.370" N	89° 27' 36.482" E
	34	26° 46' 45.460" N	89° 27' 33.470" E
	35	26° 46' 43.220" N	89° 27' 29.744" E
	36	26° 46' 42.361" N	89° 27' 28.677" E
	37	26° 46' 40.907" N	89° 27' 26.870" E
	38	26° 46' 37.981" N	89° 27' 23.306" E
	39	26° 46' 36.129" N	89° 27' 21.063" E
	40	26° 46' 33.061" N	89° 27' 18.862" E
	41	26° 46' 32.991" N	89° 27' 18.806" E
	42	26° 46' 29.213" N	89° 27' 15.763" E
	43	26° 46' 26.020" N	89° 27' 12.067" E
	44	26° 46' 24.254" N	89° 27' 7.140" E
	45	26° 46' 22.929" N	89° 27' 3.955" E
	46	26° 46' 22.255" N	89° 27' 2.335" E
	47	26° 46' 19.521" N	89° 26' 58.657" E
	48	26° 46' 18.641" N	89° 26' 57.809" E
	49	26° 46' 17.488" N	89° 26' 56.106" E
	50	26° 46' 17.096" N	89° 26' 55.613" E
	51	26° 46' 15.006" N	89° 26' 52.983" E
	52	26° 46' 13.600" N	89° 26' 51.204" E
	53	26° 46' 12.409" N	89° 26' 50.002" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	54	26° 46' 11.525" N	89° 26' 49.109" E
	55	26° 46' 14.593" N	89° 26' 41.615" E
	56	26° 46' 15.592" N	89° 26' 36.358" E
	57	26° 46' 16.665" N	89° 26' 30.715" E
	58	26° 46' 16.962" N	89° 26' 31.229" E
	59	26° 46' 17.847" N	89° 26' 34.617" E
	60	26° 46' 20.152" N	89° 26' 36.146" E
	61	26° 46' 22.261" N	89° 26' 37.678" E
	62	26° 46' 22.673" N	89° 26' 38.922" E
	63	26° 46' 23.769" N	89° 26' 42.265" E
	64	26° 46' 24.059" N	89° 26' 42.714" E
	65	26° 46' 24.926" N	89° 26' 44.056" E
	66	26° 46' 26.701" N	89° 26' 46.785" E
	67	26° 46' 26.857" N	89° 26' 47.033" E
	68	26° 46' 27.829" N	89° 26' 48.577" E
	69	26° 46' 29.816" N	89° 26' 48.819" E
	70	26° 46' 30.019" N	89° 26' 48.843" E
	71	26° 46' 33.251" N	89° 26' 51.802" E
	72	26° 46' 35.836" N	89° 26' 55.257" E
	73	26° 46' 38.229" N	89° 26' 58.784" E
	74	26° 46' 40.305" N	89° 27' 1.552" E
	75	26° 46' 43.107" N	89° 27' 4.573" E
	76	26° 46' 45.721" N	89° 27' 8.059" E
	77	26° 46' 47.576" N	89° 27' 9.884" E
	78	26° 46' 47.612" N	89° 27' 10.435" E
	79	26° 46' 48.676" N	89° 27' 10.971" E
	80	26° 46' 50.858" N	89° 27' 13.131" E
	81	26° 46' 52.602" N	89° 27' 15.128" E
	82	26° 46' 52.904" N	89° 27' 15.474" E
	83	26° 46' 55.159" N	89° 27' 18.929" E
	84	26° 46' 59.298" N	89° 27' 20.852" E
	85	26° 47' 1.639" N	89° 27' 23.199" E
	86	26° 47' 3.264" N	89° 27' 25.172" E
	87	26° 47' 6.054" N	89° 27' 27.551" E
	88	26° 47' 7.563" N	89° 27' 28.308" E
	89	26° 47' 10.119" N	89° 27' 29.592" E
	90	26° 47' 11.364" N	89° 27' 30.197" E
	91	26° 47' 14.944" N	89° 27' 31.939" E
	92	26° 47' 19.261" N	89° 27' 34.703" E
	93	26° 47' 22.818" N	89° 27' 37.125" E
	94	26° 47' 24.027" N	89° 27' 38.189" E
	95	26° 47' 26.856" N	89° 27' 40.680" E
	96	26° 47' 26.886" N	89° 27' 40.709" E
	97	26° 47' 30.654" N	89° 27' 44.327" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	98	26° 47' 33.824" N	89° 27' 47.511" E
	99	26° 47' 34.302" N	89° 27' 48.151" E
	100	26° 47' 36.567" N	89° 27' 51.187" E
	101	26° 47' 39.232" N	89° 27' 54.230" E
	102	26° 47' 41.734" N	89° 27' 57.094" E
	103	26° 47' 43.741" N	89° 27' 59.291" E
	104	26° 47' 43.765" N	89° 27' 59.335" E
	105	26° 47' 41.623" N	89° 28' 0.000" E
	106	26° 47' 39.050" N	89° 28' 0.787" E
	107	26° 47' 32.645" N	89° 27' 56.493" E
	108	26° 47' 27.879" N	89° 27' 53.804" E
	109	26° 47' 22.600" N	89° 27' 50.912" E
	110	26° 47' 21.946" N	89° 27' 48.983" E
	111	26° 46' 25.108" N	89° 26' 49.650" E
	112	26° 46' 24.389" N	89° 26' 51.454" E
	113	26° 46' 26.266" N	89° 26' 57.240" E
	114	26° 46' 27.870" N	89° 26' 58.903" E
	115	26° 46' 29.207" N	89° 27' 1.134" E
	116	26° 46' 32.531" N	89° 27' 2.737" E
	117	26° 46' 35.677" N	89° 27' 4.720" E
	118	26° 46' 38.250" N	89° 27' 5.063" E
	119	26° 46' 36.484" N	89° 27' 2.822" E
	120	26° 46' 34.650" N	89° 26' 59.527" E
	121	26° 46' 33.252" N	89° 26' 55.858" E
	122	26° 46' 32.327" N	89° 26' 54.689" E
	123	26° 46' 30.631" N	89° 26' 53.312" E
	124	26° 46' 28.503" N	89° 26' 52.117" E
	125	26° 46' 27.081" N	89° 26' 49.884" E
AD_KC_KJ_04	1	26° 44' 43.699" N	89° 25' 38.824" E
	2	26° 44' 42.066" N	89° 25' 36.131" E
	3	26° 44' 42.223" N	89° 25' 34.248" E
	4	26° 44' 42.194" N	89° 25' 34.254" E
	5	26° 44' 41.817" N	89° 25' 33.237" E
	6	26° 44' 41.537" N	89° 25' 32.479" E
	7	26° 44' 41.137" N	89° 25' 31.704" E
	8	26° 44' 40.912" N	89° 25' 31.649" E
	9	26° 44' 38.995" N	89° 25' 28.289" E
	10	26° 44' 34.813" N	89° 25' 27.587" E
	11	26° 44' 33.232" N	89° 25' 27.554" E
	12	26° 44' 31.520" N	89° 25' 27.134" E
	13	26° 44' 31.522" N	89° 25' 27.156" E
	14	26° 44' 30.544" N	89° 25' 25.602" E
	15	26° 44' 27.170" N	89° 25' 20.476" E
	16	26° 44' 23.478" N	89° 25' 15.020" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	17	26° 44' 22.804" N	89° 25' 14.019" E
	18	26° 44' 22.308" N	89° 25' 13.283" E
	19	26° 44' 23.113" N	89° 25' 12.098" E
	20	26° 44' 20.913" N	89° 25' 7.993" E
	21	26° 44' 18.945" N	89° 25' 6.496" E
	22	26° 44' 17.461" N	89° 25' 4.780" E
	23	26° 44' 16.386" N	89° 25' 3.399" E
	24	26° 44' 15.394" N	89° 25' 2.126" E
	25	26° 44' 15.471" N	89° 25' 1.717" E
	26	26° 44' 12.197" N	89° 24' 55.698" E
	27	26° 44' 12.002" N	89° 24' 55.242" E
	28	26° 44' 22.306" N	89° 24' 55.672" E
	29	26° 44' 22.769" N	89° 24' 57.111" E
	30	26° 44' 24.653" N	89° 25' 0.335" E
	31	26° 44' 27.217" N	89° 25' 5.866" E
	32	26° 44' 29.547" N	89° 25' 9.851" E
	33	26° 44' 34.626" N	89° 25' 14.109" E
	34	26° 44' 38.177" N	89° 25' 16.957" E
	35	26° 44' 40.298" N	89° 25' 19.485" E
	36	26° 44' 41.122" N	89° 25' 20.467" E
	37	26° 44' 44.048" N	89° 25' 23.520" E
	38	26° 44' 46.804" N	89° 25' 26.109" E
	39	26° 44' 49.908" N	89° 25' 28.741" E
	40	26° 44' 51.358" N	89° 25' 30.030" E
	41	26° 44' 52.955" N	89° 25' 31.449" E
	42	26° 44' 58.419" N	89° 25' 35.106" E
	43	26° 45' 3.012" N	89° 25' 37.874" E
	44	26° 45' 4.107" N	89° 25' 38.627" E
	45	26° 45' 6.958" N	89° 25' 40.586" E
	46	26° 45' 9.842" N	89° 25' 42.912" E
	47	26° 45' 13.078" N	89° 25' 46.285" E
	48	26° 45' 15.973" N	89° 25' 50.087" E
	49	26° 45' 17.273" N	89° 25' 52.158" E
	50	26° 45' 18.018" N	89° 25' 53.345" E
	51	26° 45' 18.955" N	89° 25' 54.991" E
	52	26° 45' 19.339" N	89° 25' 57.563" E
	53	26° 45' 20.894" N	89° 25' 59.128" E
	54	26° 45' 21.908" N	89° 25' 59.678" E
	55	26° 45' 21.912" N	89° 25' 59.684" E
	56	26° 45' 24.394" N	89° 26' 1.750" E
	57	26° 45' 26.282" N	89° 26' 3.374" E
	58	26° 45' 27.730" N	89° 26' 4.534" E
	59	26° 45' 28.588" N	89° 26' 5.221" E
	60	26° 45' 31.656" N	89° 26' 5.287" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	61	26° 45' 34.578" N	89° 26' 5.101" E
	62	26° 45' 35.797" N	89° 26' 5.657" E
	63	26° 45' 37.506" N	89° 26' 6.333" E
	64	26° 45' 39.113" N	89° 26' 6.987" E
	65	26° 45' 41.595" N	89° 26' 7.895" E
	66	26° 45' 45.034" N	89° 26' 9.910" E
	67	26° 45' 45.542" N	89° 26' 10.134" E
	68	26° 45' 49.201" N	89° 26' 11.748" E
	69	26° 45' 49.744" N	89° 26' 11.914" E
	70	26° 45' 54.249" N	89° 26' 13.287" E
	71	26° 45' 58.375" N	89° 26' 16.296" E
	72	26° 46' 2.693" N	89° 26' 19.447" E
	73	26° 46' 5.895" N	89° 26' 21.492" E
	74	26° 46' 6.270" N	89° 26' 21.976" E
	75	26° 46' 6.565" N	89° 26' 21.920" E
	76	26° 46' 6.779" N	89° 26' 22.057" E
	77	26° 46' 6.897" N	89° 26' 22.132" E
	78	26° 46' 7.342" N	89° 26' 22.416" E
	79	26° 46' 11.884" N	89° 26' 25.333" E
	80	26° 46' 15.348" N	89° 26' 28.434" E
	81	26° 46' 16.665" N	89° 26' 30.715" E
	82	26° 46' 15.592" N	89° 26' 36.358" E
	83	26° 46' 14.593" N	89° 26' 41.615" E
	84	26° 46' 11.525" N	89° 26' 49.109" E
	85	26° 46' 10.975" N	89° 26' 48.553" E
	86	26° 46' 9.958" N	89° 26' 47.531" E
	87	26° 46' 8.454" N	89° 26' 45.710" E
	88	26° 46' 6.834" N	89° 26' 43.655" E
	89	26° 46' 6.520" N	89° 26' 43.257" E
	90	26° 46' 4.275" N	89° 26' 40.320" E
	91	26° 46' 2.392" N	89° 26' 37.995" E
	92	26° 46' 0.594" N	89° 26' 35.957" E
	93	26° 45' 59.644" N	89° 26' 34.880" E
	94	26° 45' 56.214" N	89° 26' 32.108" E
	95	26° 45' 52.743" N	89° 26' 29.308" E
	96	26° 45' 51.340" N	89° 26' 28.458" E
	97	26° 45' 50.519" N	89° 26' 27.795" E
	98	26° 45' 44.323" N	89° 26' 24.216" E
	99	26° 45' 40.628" N	89° 26' 23.141" E
	100	26° 45' 39.422" N	89° 26' 22.966" E
	101	26° 45' 38.548" N	89° 26' 22.641" E
	102	26° 45' 38.088" N	89° 26' 22.471" E
	103	26° 45' 35.716" N	89° 26' 21.164" E
	104	26° 45' 35.150" N	89° 26' 20.809" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	105	26° 45' 34.492" N	89° 26' 20.397" E
	106	26° 45' 32.154" N	89° 26' 18.788" E
	107	26° 45' 29.665" N	89° 26' 16.861" E
	108	26° 45' 28.666" N	89° 26' 16.089" E
	109	26° 45' 28.041" N	89° 26' 15.365" E
	110	26° 45' 27.794" N	89° 26' 15.415" E
	111	26° 45' 26.753" N	89° 26' 14.610" E
	112	26° 45' 23.425" N	89° 26' 11.237" E
	113	26° 45' 21.094" N	89° 26' 8.789" E
	114	26° 45' 19.229" N	89° 26' 7.225" E
	115	26° 45' 19.190" N	89° 26' 7.193" E
	116	26° 45' 18.987" N	89° 26' 7.022" E
	117	26° 45' 16.841" N	89° 26' 5.292" E
	118	26° 45' 14.031" N	89° 26' 2.352" E
	119	26° 45' 9.204" N	89° 25' 59.108" E
	120	26° 45' 6.969" N	89° 25' 57.146" E
	121	26° 45' 4.989" N	89° 25' 56.296" E
	122	26° 45' 3.519" N	89° 25' 55.231" E
	123	26° 45' 3.103" N	89° 25' 54.949" E
	124	26° 45' 0.475" N	89° 25' 53.160" E
	125	26° 44' 56.474" N	89° 25' 49.910" E
	126	26° 44' 54.234" N	89° 25' 48.939" E
	127	26° 44' 53.461" N	89° 25' 48.341" E
	128	26° 44' 52.716" N	89° 25' 48.281" E
	129	26° 44' 52.245" N	89° 25' 48.077" E
	130	26° 44' 50.315" N	89° 25' 45.837" E
	131	26° 44' 49.149" N	89° 25' 44.484" E
	132	26° 44' 47.488" N	89° 25' 42.557" E
	133	26° 44' 44.538" N	89° 25' 39.456" E
AD_KC_KJ_05	1	26° 40' 59.159" N	89° 24' 26.923" E
	2	26° 40' 57.452" N	89° 24' 27.528" E
	3	26° 40' 56.675" N	89° 24' 27.513" E
	4	26° 40' 54.167" N	89° 24' 27.627" E
	5	26° 40' 50.540" N	89° 24' 28.025" E
	6	26° 40' 47.136" N	89° 24' 28.456" E
	7	26° 40' 46.785" N	89° 24' 28.507" E
	8	26° 40' 44.736" N	89° 24' 28.806" E
	9	26° 40' 42.184" N	89° 24' 26.337" E
	10	26° 40' 41.185" N	89° 24' 24.402" E
	11	26° 40' 42.777" N	89° 24' 23.823" E
	12	26° 40' 42.400" N	89° 24' 22.940" E
	13	26° 40' 40.480" N	89° 24' 22.670" E
	14	26° 40' 35.735" N	89° 24' 20.733" E
	15	26° 40' 26.934" N	89° 24' 21.285" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	16	26° 40' 22.830" N	89° 24' 22.514" E
	17	26° 40' 22.218" N	89° 24' 22.556" E
	18	26° 40' 18.989" N	89° 24' 24.797" E
	19	26° 40' 16.733" N	89° 24' 24.750" E
	20	26° 40' 14.383" N	89° 24' 23.983" E
	21	26° 40' 11.193" N	89° 24' 22.002" E
	22	26° 40' 7.533" N	89° 24' 22.404" E
	23	26° 40' 5.850" N	89° 24' 22.100" E
	24	26° 40' 3.800" N	89° 24' 23.957" E
	25	26° 40' 1.320" N	89° 24' 25.771" E
	26	26° 39' 56.631" N	89° 24' 28.542" E
	27	26° 39' 53.132" N	89° 24' 29.617" E
	28	26° 39' 49.723" N	89° 24' 33.613" E
	29	26° 39' 50.765" N	89° 24' 29.437" E
	30	26° 39' 55.970" N	89° 24' 21.927" E
	31	26° 39' 57.471" N	89° 24' 20.994" E
	32	26° 39' 57.804" N	89° 24' 20.938" E
	33	26° 39' 59.498" N	89° 24' 20.003" E
	34	26° 39' 59.549" N	89° 24' 19.973" E
	35	26° 40' 2.823" N	89° 24' 19.896" E
	36	26° 40' 2.430" N	89° 24' 19.187" E
	37	26° 40' 4.204" N	89° 24' 18.075" E
	38	26° 40' 5.164" N	89° 24' 17.922" E
	39	26° 40' 8.475" N	89° 24' 17.520" E
	40	26° 40' 8.955" N	89° 24' 17.324" E
	41	26° 40' 12.897" N	89° 24' 16.722" E
	42	26° 40' 13.534" N	89° 24' 16.625" E
	43	26° 40' 15.601" N	89° 24' 17.038" E
	44	26° 40' 17.350" N	89° 24' 16.180" E
	45	26° 40' 20.594" N	89° 24' 14.933" E
	46	26° 40' 22.669" N	89° 24' 13.832" E
	47	26° 40' 23.119" N	89° 24' 12.355" E
	48	26° 40' 23.967" N	89° 24' 12.096" E
	49	26° 40' 26.868" N	89° 24' 12.264" E
	50	26° 40' 30.603" N	89° 24' 12.485" E
	51	26° 40' 34.683" N	89° 24' 12.709" E
	52	26° 40' 38.367" N	89° 24' 12.924" E
	53	26° 40' 42.639" N	89° 24' 13.775" E
	54	26° 40' 47.051" N	89° 24' 13.686" E
	55	26° 40' 47.621" N	89° 24' 13.701" E
	56	26° 40' 48.116" N	89° 24' 13.713" E
	57	26° 40' 50.621" N	89° 24' 13.778" E
	58	26° 40' 51.653" N	89° 24' 13.810" E
	59	26° 40' 51.903" N	89° 24' 14.030" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	60	26° 40' 51.888" N	89° 24' 14.915" E
	61	26° 40' 55.609" N	89° 24' 15.667" E
AD_KC_KJ_06_07	1	26° 39' 32.924" N	89° 24' 38.437" E
	2	26° 39' 31.634" N	89° 24' 38.795" E
	3	26° 39' 31.995" N	89° 24' 39.423" E
	4	26° 39' 31.913" N	89° 24' 39.511" E
	5	26° 39' 29.644" N	89° 24' 39.857" E
	6	26° 39' 26.695" N	89° 24' 38.272" E
	7	26° 39' 26.071" N	89° 24' 37.943" E
	8	26° 39' 25.947" N	89° 24' 37.822" E
	9	26° 39' 25.676" N	89° 24' 37.735" E
	10	26° 39' 23.040" N	89° 24' 36.346" E
	11	26° 39' 19.930" N	89° 24' 34.718" E
	12	26° 39' 16.194" N	89° 24' 32.874" E
	13	26° 39' 15.691" N	89° 24' 32.735" E
	14	26° 39' 14.288" N	89° 24' 32.348" E
	15	26° 39' 13.220" N	89° 24' 31.906" E
	16	26° 39' 10.461" N	89° 24' 29.816" E
	17	26° 39' 8.879" N	89° 24' 28.108" E
	18	26° 39' 6.522" N	89° 24' 27.700" E
	19	26° 39' 3.314" N	89° 24' 26.796" E
	20	26° 39' 1.401" N	89° 24' 25.560" E
	21	26° 39' 3.466" N	89° 24' 24.168" E
	22	26° 39' 7.771" N	89° 24' 22.009" E
	23	26° 39' 8.709" N	89° 24' 21.613" E
	24	26° 39' 12.719" N	89° 24' 20.222" E
	25	26° 39' 13.738" N	89° 24' 20.121" E
	26	26° 39' 14.356" N	89° 24' 21.886" E
	27	26° 39' 15.828" N	89° 24' 23.830" E
	28	26° 39' 17.731" N	89° 24' 25.663" E
	29	26° 39' 20.704" N	89° 24' 27.759" E
	30	26° 39' 23.056" N	89° 24' 28.406" E
	31	26° 39' 25.958" N	89° 24' 28.347" E
	32	26° 39' 28.745" N	89° 24' 28.764" E
	33	26° 39' 31.098" N	89° 24' 29.412" E
	34	26° 39' 33.453" N	89° 24' 30.155" E
	35	26° 39' 36.645" N	89° 24' 27.883" E
	36	26° 39' 41.274" N	89° 24' 27.382" E
	37	26° 39' 47.592" N	89° 24' 25.654" E
	38	26° 39' 47.240" N	89° 24' 27.340" E
	39	26° 39' 43.285" N	89° 24' 32.423" E
	40	26° 39' 40.686" N	89° 24' 33.660" E
	41	26° 39' 38.091" N	89° 24' 34.610" E
	42	26° 39' 37.603" N	89° 24' 36.343" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	43	26° 39' 34.864" N	89° 24' 36.804" E
	44	26° 39' 33.222" N	89° 24' 38.121" E
AD_KC_KJ_08	1	26° 38' 36.829" N	89° 24' 40.805" E
	2	26° 38' 34.998" N	89° 24' 41.762" E
	3	26° 38' 32.266" N	89° 24' 42.893" E
	4	26° 38' 31.388" N	89° 24' 42.774" E
	5	26° 38' 31.720" N	89° 24' 42.183" E
	6	26° 38' 34.448" N	89° 24' 39.729" E
	7	26° 38' 34.254" N	89° 24' 38.530" E
	8	26° 38' 35.457" N	89° 24' 37.240" E
	9	26° 38' 35.506" N	89° 24' 34.371" E
	10	26° 38' 38.765" N	89° 24' 32.287" E
	11	26° 38' 39.880" N	89° 24' 31.271" E
	12	26° 38' 42.801" N	89° 24' 29.217" E
	13	26° 38' 45.740" N	89° 24' 27.189" E
	14	26° 38' 47.238" N	89° 24' 26.845" E
	15	26° 38' 48.890" N	89° 24' 28.506" E
	16	26° 38' 53.255" N	89° 24' 26.852" E
	17	26° 39' 0.550" N	89° 24' 27.483" E
	18	26° 39' 5.236" N	89° 24' 29.973" E
	19	26° 39' 4.593" N	89° 24' 30.910" E
	20	26° 39' 3.172" N	89° 24' 30.738" E
	21	26° 39' 1.561" N	89° 24' 30.807" E
	22	26° 39' 0.181" N	89° 24' 30.226" E
	23	26° 38' 55.859" N	89° 24' 31.690" E
	24	26° 38' 54.232" N	89° 24' 32.865" E
	25	26° 38' 53.125" N	89° 24' 33.514" E
	26	26° 38' 50.458" N	89° 24' 35.242" E
	27	26° 38' 47.200" N	89° 24' 36.375" E
	28	26° 38' 43.690" N	89° 24' 37.491" E
	29	26° 38' 42.420" N	89° 24' 38.065" E
	30	26° 38' 39.970" N	89° 24' 39.175" E
AD_KC_KJ_09	1	26° 37' 30.897" N	89° 25' 8.042" E
	2	26° 37' 28.543" N	89° 25' 0.337" E
	3	26° 37' 30.571" N	89° 24' 54.190" E
	4	26° 37' 32.864" N	89° 24' 48.228" E
	5	26° 37' 33.262" N	89° 24' 48.015" E
	6	26° 37' 35.158" N	89° 24' 47.001" E
	7	26° 37' 39.969" N	89° 24' 44.387" E
	8	26° 37' 43.833" N	89° 24' 43.396" E
	9	26° 37' 47.468" N	89° 24' 42.329" E
	10	26° 37' 48.823" N	89° 24' 42.102" E
	11	26° 37' 49.167" N	89° 24' 42.044" E
	12	26° 37' 52.592" N	89° 24' 42.645" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	13	26° 38' 2.028" N	89° 24' 44.428" E
	14	26° 38' 2.900" N	89° 24' 44.567" E
	15	26° 38' 3.539" N	89° 24' 43.982" E
	16	26° 38' 9.305" N	89° 24' 40.990" E
	17	26° 38' 14.155" N	89° 24' 40.269" E
	18	26° 38' 19.575" N	89° 24' 39.223" E
	19	26° 38' 24.063" N	89° 24' 38.342" E
	20	26° 38' 25.002" N	89° 24' 38.159" E
	21	26° 38' 27.361" N	89° 24' 37.699" E
	22	26° 38' 23.217" N	89° 24' 43.080" E
	23	26° 38' 20.820" N	89° 24' 45.062" E
	24	26° 38' 18.422" N	89° 24' 47.044" E
	25	26° 38' 17.006" N	89° 24' 48.210" E
	26	26° 38' 12.642" N	89° 24' 52.064" E
	27	26° 38' 7.063" N	89° 24' 55.133" E
	28	26° 38' 6.902" N	89° 24' 55.212" E
	29	26° 38' 1.278" N	89° 24' 57.983" E
	30	26° 37' 56.607" N	89° 24' 59.883" E
	31	26° 37' 54.130" N	89° 25' 1.232" E
	32	26° 37' 51.568" N	89° 25' 3.218" E
	33	26° 37' 51.281" N	89° 25' 3.440" E
	34	26° 37' 48.351" N	89° 25' 5.882" E
	35	26° 37' 45.402" N	89° 25' 7.562" E
	36	26° 37' 40.932" N	89° 25' 8.514" E
	37	26° 37' 37.464" N	89° 25' 9.628" E
	38	26° 37' 36.110" N	89° 25' 10.702" E
	39	26° 37' 33.762" N	89° 25' 10.135" E
AD_KC_KJ_10	1	26° 36' 58.024" N	89° 25' 29.966" E
	2	26° 36' 56.795" N	89° 25' 29.386" E
	3	26° 36' 59.276" N	89° 25' 25.809" E
	4	26° 37' 0.543" N	89° 25' 24.321" E
	5	26° 37' 1.957" N	89° 25' 22.660" E
	6	26° 37' 2.675" N	89° 25' 21.816" E
	7	26° 37' 6.258" N	89° 25' 19.621" E
	8	26° 37' 11.560" N	89° 25' 19.821" E
	9	26° 37' 15.647" N	89° 25' 19.501" E
	10	26° 37' 20.880" N	89° 25' 19.092" E
	11	26° 37' 23.002" N	89° 25' 18.524" E
	12	26° 37' 23.474" N	89° 25' 19.523" E
	13	26° 37' 23.350" N	89° 25' 21.499" E
	14	26° 37' 21.901" N	89° 25' 22.462" E
	15	26° 37' 20.718" N	89° 25' 23.101" E
	16	26° 37' 19.971" N	89° 25' 23.312" E
	17	26° 37' 14.904" N	89° 25' 24.047" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	18	26° 37' 13.387" N	89° 25' 24.283" E
	19	26° 37' 13.254" N	89° 25' 24.729" E
	20	26° 37' 11.418" N	89° 25' 25.631" E
	21	26° 37' 3.769" N	89° 25' 26.985" E
	22	26° 37' 1.858" N	89° 25' 29.107" E
	23	26° 37' 1.479" N	89° 25' 29.194" E
	24	26° 36' 58.094" N	89° 25' 29.971" E
AD_KC_KJ_11	1	26° 36' 49.417" N	89° 25' 22.334" E
	2	26° 36' 50.646" N	89° 25' 21.563" E
	3	26° 36' 54.518" N	89° 25' 20.496" E
	4	26° 36' 55.726" N	89° 25' 20.342" E
	5	26° 36' 56.336" N	89° 25' 19.995" E
	6	26° 36' 56.691" N	89° 25' 19.897" E
	7	26° 36' 58.341" N	89° 25' 20.354" E
	8	26° 36' 56.463" N	89° 25' 22.518" E
	9	26° 36' 52.642" N	89° 25' 24.809" E
AD_KC_KJ_14	1	26° 36' 18.243" N	89° 25' 27.758" E
	2	26° 36' 17.671" N	89° 25' 26.726" E
	3	26° 36' 16.364" N	89° 25' 24.748" E
	4	26° 36' 15.026" N	89° 25' 24.548" E
	5	26° 36' 12.196" N	89° 25' 24.201" E
	6	26° 36' 9.720" N	89° 25' 24.206" E
	7	26° 36' 9.253" N	89° 25' 25.077" E
	8	26° 36' 5.010" N	89° 25' 26.218" E
	9	26° 35' 56.733" N	89° 25' 32.737" E
	10	26° 35' 50.655" N	89° 25' 39.342" E
	11	26° 35' 49.987" N	89° 25' 39.439" E
	12	26° 35' 46.481" N	89° 25' 41.100" E
	13	26° 35' 45.649" N	89° 25' 41.433" E
	14	26° 35' 42.872" N	89° 25' 42.544" E
	15	26° 35' 39.371" N	89° 25' 43.665" E
	16	26° 35' 41.650" N	89° 25' 41.382" E
	17	26° 35' 48.650" N	89° 25' 32.386" E
	18	26° 35' 52.143" N	89° 25' 31.818" E
	19	26° 36' 0.643" N	89° 25' 23.975" E
	20	26° 36' 3.048" N	89° 25' 21.515" E
	21	26° 36' 8.123" N	89° 25' 20.069" E
	22	26° 36' 16.342" N	89° 25' 23.230" E
	23	26° 36' 18.489" N	89° 25' 22.288" E
	24	26° 36' 20.223" N	89° 25' 23.052" E
AD_KC_KJ_15	1	26° 35' 37.003" N	89° 25' 42.957" E
	2	26° 35' 36.151" N	89° 25' 43.253" E
	3	26° 35' 36.142" N	89° 25' 44.028" E
	4	26° 35' 34.733" N	89° 25' 44.125" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	5	26° 35' 33.718" N	89° 25' 44.080" E
	6	26° 35' 32.962" N	89° 25' 42.537" E
	7	26° 35' 31.011" N	89° 25' 41.516" E
	8	26° 35' 27.605" N	89° 25' 39.651" E
	9	26° 35' 25.857" N	89° 25' 39.325" E
	10	26° 35' 25.627" N	89° 25' 37.656" E
	11	26° 35' 28.512" N	89° 25' 37.661" E
	12	26° 35' 29.215" N	89° 25' 36.966" E
	13	26° 35' 35.853" N	89° 25' 36.840" E
	14	26° 35' 41.775" N	89° 25' 37.058" E
	15	26° 35' 41.427" N	89° 25' 37.341" E
AD_KC_KJ_16_17	1	26° 34' 57.308" N	89° 25' 28.645" E
	2	26° 34' 54.626" N	89° 25' 26.647" E
	3	26° 34' 55.656" N	89° 25' 30.878" E
	4	26° 34' 55.587" N	89° 25' 30.868" E
	5	26° 34' 52.792" N	89° 25' 30.366" E
	6	26° 34' 49.912" N	89° 25' 29.681" E
	7	26° 34' 47.509" N	89° 25' 28.699" E
	8	26° 34' 45.128" N	89° 25' 27.776" E
	9	26° 34' 42.690" N	89° 25' 26.816" E
	10	26° 34' 42.324" N	89° 25' 26.678" E
	11	26° 34' 39.824" N	89° 25' 25.140" E
	12	26° 34' 32.095" N	89° 25' 18.405" E
	13	26° 34' 31.619" N	89° 25' 14.810" E
	14	26° 34' 37.731" N	89° 25' 15.536" E
	15	26° 34' 43.515" N	89° 25' 16.614" E
	16	26° 34' 47.766" N	89° 25' 19.332" E
	17	26° 34' 48.755" N	89° 25' 19.666" E
	18	26° 34' 50.594" N	89° 25' 20.958" E
	19	26° 34' 52.819" N	89° 25' 21.193" E
	20	26° 34' 53.056" N	89° 25' 21.218" E
	21	26° 34' 53.391" N	89° 25' 21.248" E
	22	26° 34' 54.186" N	89° 25' 21.321" E
	23	26° 34' 55.479" N	89° 25' 22.912" E
	24	26° 34' 57.965" N	89° 25' 23.347" E
	25	26° 34' 59.146" N	89° 25' 24.615" E
	26	26° 35' 2.881" N	89° 25' 24.403" E
	27	26° 35' 4.940" N	89° 25' 24.676" E
	28	26° 35' 6.715" N	89° 25' 25.130" E
	29	26° 35' 7.710" N	89° 25' 25.724" E
	30	26° 35' 8.893" N	89° 25' 26.624" E
	31	26° 35' 10.181" N	89° 25' 27.845" E
	32	26° 35' 13.210" N	89° 25' 31.657" E
	33	26° 35' 11.957" N	89° 25' 32.548" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	34	26° 35' 7.276" N	89° 25' 32.832" E
	35	26° 35' 3.018" N	89° 25' 32.513" E
	36	26° 35' 2.143" N	89° 25' 31.424" E
	37	26° 35' 0.306" N	89° 25' 30.238" E
AD_KC_KJ_18_19	1	26° 33' 48.231" N	89° 25' 13.155" E
	2	26° 33' 43.428" N	89° 25' 10.054" E
	3	26° 33' 44.117" N	89° 25' 9.152" E
	4	26° 33' 49.620" N	89° 25' 8.347" E
	5	26° 33' 51.329" N	89° 25' 8.347" E
	6	26° 33' 53.172" N	89° 25' 8.292" E
	7	26° 33' 55.063" N	89° 25' 9.475" E
	8	26° 33' 56.327" N	89° 25' 8.420" E
	9	26° 33' 57.960" N	89° 25' 7.140" E
	10	26° 34' 0.849" N	89° 25' 5.566" E
	11	26° 34' 0.995" N	89° 25' 5.574" E
	12	26° 34' 1.137" N	89° 25' 5.583" E
	13	26° 34' 4.892" N	89° 25' 5.174" E
	14	26° 34' 8.516" N	89° 25' 5.569" E
	15	26° 34' 11.261" N	89° 25' 5.409" E
	16	26° 34' 11.784" N	89° 25' 6.029" E
	17	26° 34' 13.544" N	89° 25' 9.890" E
	18	26° 34' 11.881" N	89° 25' 12.457" E
	19	26° 34' 7.029" N	89° 25' 13.431" E
	20	26° 34' 2.810" N	89° 25' 15.134" E
	21	26° 33' 57.120" N	89° 25' 14.895" E
	22	26° 33' 52.187" N	89° 25' 14.314" E
AD_KC_KJ_21	1	26° 33' 25.217" N	89° 24' 55.851" E
	2	26° 33' 24.287" N	89° 24' 55.281" E
	3	26° 33' 25.145" N	89° 24' 54.997" E
	4	26° 33' 26.908" N	89° 24' 55.299" E
	5	26° 33' 28.710" N	89° 24' 55.566" E
	6	26° 33' 31.677" N	89° 24' 57.274" E
	7	26° 33' 33.704" N	89° 24' 58.449" E
	8	26° 33' 35.483" N	89° 24' 59.524" E
	9	26° 33' 37.632" N	89° 25' 0.820" E
	10	26° 33' 39.443" N	89° 25' 1.407" E
	11	26° 33' 39.426" N	89° 25' 1.452" E
	12	26° 33' 32.926" N	89° 25' 0.617" E
	13	26° 33' 32.345" N	89° 25' 0.063" E
	14	26° 33' 28.952" N	89° 24' 57.363" E
AD_KC_KJ_22	1	26° 33' 28.411" N	89° 25' 4.734" E
	2	26° 33' 28.406" N	89° 25' 1.541" E
	3	26° 33' 32.288" N	89° 25' 3.383" E
	4	26° 33' 38.115" N	89° 25' 8.285" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	5	26° 33' 43.528" N	89° 25' 12.222" E
	6	26° 33' 47.982" N	89° 25' 15.661" E
	7	26° 33' 47.982" N	89° 25' 15.663" E
	8	26° 33' 45.888" N	89° 25' 15.428" E
	9	26° 33' 42.728" N	89° 25' 14.897" E
	10	26° 33' 39.780" N	89° 25' 14.404" E
	11	26° 33' 36.354" N	89° 25' 12.556" E
	12	26° 33' 34.519" N	89° 25' 11.395" E
	13	26° 33' 34.309" N	89° 25' 11.263" E
	14	26° 33' 32.823" N	89° 25' 9.846" E
	15	26° 33' 30.912" N	89° 25' 8.789" E
AD_AD1_KJ_23	1	26° 33' 7.786" N	89° 24' 55.155" E
	2	26° 33' 6.900" N	89° 24' 54.726" E
	3	26° 33' 7.623" N	89° 24' 54.264" E
	4	26° 33' 11.082" N	89° 24' 53.022" E
	5	26° 33' 13.660" N	89° 24' 53.076" E
	6	26° 33' 14.308" N	89° 24' 53.077" E
	7	26° 33' 15.039" N	89° 24' 55.401" E
	8	26° 33' 16.974" N	89° 24' 57.990" E
	9	26° 33' 14.189" N	89° 24' 57.154" E
	10	26° 33' 11.024" N	89° 24' 56.902" E
	11	26° 33' 10.632" N	89° 24' 56.674" E
	12	26° 33' 10.187" N	89° 24' 56.415" E
AD_AD1_KJ_24	1	26° 32' 52.981" N	89° 24' 43.348" E
	2	26° 32' 51.106" N	89° 24' 39.845" E
	3	26° 32' 53.827" N	89° 24' 37.751" E
	4	26° 32' 55.184" N	89° 24' 35.937" E
	5	26° 32' 56.838" N	89° 24' 35.370" E
	6	26° 32' 58.348" N	89° 24' 34.844" E
	7	26° 32' 58.718" N	89° 24' 34.770" E
	8	26° 33' 0.000" N	89° 24' 35.588" E
	9	26° 33' 1.748" N	89° 24' 36.681" E
	10	26° 33' 3.130" N	89° 24' 37.563" E
	11	26° 33' 3.282" N	89° 24' 37.737" E
	12	26° 33' 3.460" N	89° 24' 38.172" E
	13	26° 33' 3.648" N	89° 24' 38.158" E
	14	26° 33' 4.759" N	89° 24' 39.434" E
	15	26° 33' 6.556" N	89° 24' 41.541" E
	16	26° 33' 9.409" N	89° 24' 43.364" E
	17	26° 33' 11.491" N	89° 24' 44.788" E
	18	26° 33' 13.356" N	89° 24' 46.081" E
	19	26° 33' 13.587" N	89° 24' 46.241" E
	20	26° 33' 15.638" N	89° 24' 48.432" E
	21	26° 33' 17.134" N	89° 24' 50.016" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	22	26° 33' 18.109" N	89° 24' 51.039" E
	23	26° 33' 17.235" N	89° 24' 51.383" E
	24	26° 33' 15.001" N	89° 24' 50.022" E
	25	26° 33' 12.138" N	89° 24' 47.811" E
	26	26° 33' 9.116" N	89° 24' 48.584" E
	27	26° 33' 5.329" N	89° 24' 50.178" E
	28	26° 33' 1.557" N	89° 24' 50.815" E
	29	26° 32' 58.377" N	89° 24' 48.240" E
AD_AD1_KJ_25	1	26° 32' 32.678" N	89° 24' 53.379" E
	2	26° 32' 30.922" N	89° 24' 53.776" E
	3	26° 32' 29.872" N	89° 24' 54.003" E
	4	26° 32' 29.851" N	89° 24' 54.008" E
	5	26° 32' 29.698" N	89° 24' 52.224" E
	6	26° 32' 32.335" N	89° 24' 51.900" E
	7	26° 32' 32.494" N	89° 24' 51.851" E
	8	26° 32' 31.851" N	89° 24' 50.846" E
	9	26° 32' 34.653" N	89° 24' 47.846" E
	10	26° 32' 38.302" N	89° 24' 45.533" E
	11	26° 32' 42.869" N	89° 24' 44.865" E
	12	26° 32' 43.871" N	89° 24' 45.888" E
	13	26° 32' 44.463" N	89° 24' 45.232" E
	14	26° 32' 47.394" N	89° 24' 46.680" E
	15	26° 32' 47.378" N	89° 24' 47.635" E
	16	26° 32' 46.493" N	89° 24' 49.146" E
	17	26° 32' 46.232" N	89° 24' 49.331" E
	18	26° 32' 45.594" N	89° 24' 49.666" E
	19	26° 32' 44.288" N	89° 24' 50.343" E
	20	26° 32' 42.366" N	89° 24' 51.432" E
	21	26° 32' 40.866" N	89° 24' 52.243" E
	22	26° 32' 39.163" N	89° 24' 53.167" E
	23	26° 32' 37.117" N	89° 24' 54.310" E
	24	26° 32' 36.149" N	89° 24' 54.906" E
	25	26° 32' 34.684" N	89° 24' 54.270" E
AD_AD1_KJ_26	1	26° 32' 16.581" N	89° 24' 49.093" E
	2	26° 32' 12.631" N	89° 24' 48.819" E
	3	26° 32' 12.767" N	89° 24' 47.657" E
	4	26° 32' 14.902" N	89° 24' 47.150" E
	5	26° 32' 18.389" N	89° 24' 46.216" E
	6	26° 32' 19.100" N	89° 24' 46.100" E
	7	26° 32' 22.367" N	89° 24' 45.571" E
	8	26° 32' 25.293" N	89° 24' 45.170" E
	9	26° 32' 28.134" N	89° 24' 44.480" E
	10	26° 32' 29.107" N	89° 24' 44.210" E
	11	26° 32' 26.344" N	89° 24' 48.286" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	12	26° 32' 25.769" N	89° 24' 48.274" E
	13	26° 32' 23.184" N	89° 24' 49.995" E
AD_AD1_KJ_27	1	26° 32' 2.387" N	89° 25' 14.207" E
	2	26° 32' 2.412" N	89° 24' 57.580" E
	3	26° 32' 4.432" N	89° 24' 55.042" E
	4	26° 32' 5.951" N	89° 24' 51.105" E
	5	26° 32' 9.437" N	89° 24' 49.305" E
	6	26° 32' 12.242" N	89° 24' 49.115" E
	7	26° 32' 13.324" N	89° 24' 49.167" E
	8	26° 32' 14.603" N	89° 24' 54.212" E
	9	26° 32' 17.059" N	89° 24' 55.597" E
	10	26° 32' 17.232" N	89° 24' 57.888" E
	11	26° 32' 17.109" N	89° 24' 57.948" E
	12	26° 32' 14.820" N	89° 24' 59.130" E
	13	26° 32' 13.487" N	89° 25' 0.577" E
	14	26° 32' 12.038" N	89° 25' 2.300" E
	15	26° 32' 11.220" N	89° 25' 3.280" E
	16	26° 32' 10.278" N	89° 25' 4.248" E
	17	26° 32' 9.311" N	89° 25' 5.273" E
	18	26° 32' 8.720" N	89° 25' 5.953" E
	19	26° 32' 8.354" N	89° 25' 6.504" E
	20	26° 32' 7.895" N	89° 25' 7.133" E
	21	26° 32' 7.038" N	89° 25' 8.533" E
	22	26° 32' 6.947" N	89° 25' 8.729" E
	23	26° 32' 5.830" N	89° 25' 9.700" E
	24	26° 32' 4.478" N	89° 25' 13.399" E
	25	26° 32' 2.392" N	89° 25' 14.246" E
AD_AD1_KJ_29_30	1	26° 30' 56.627" N	89° 27' 15.510" E
	2	26° 30' 53.776" N	89° 27' 21.373" E
	3	26° 30' 52.583" N	89° 27' 20.774" E
	4	26° 30' 55.008" N	89° 27' 14.711" E
	5	26° 30' 55.419" N	89° 27' 10.803" E
	6	26° 30' 55.167" N	89° 27' 5.447" E
	7	26° 30' 53.608" N	89° 27' 1.114" E
	8	26° 30' 53.369" N	89° 26' 58.954" E
	9	26° 30' 52.698" N	89° 26' 58.608" E
	10	26° 30' 51.384" N	89° 26' 55.525" E
	11	26° 30' 51.679" N	89° 26' 53.334" E
	12	26° 30' 51.100" N	89° 26' 46.535" E
	13	26° 30' 52.313" N	89° 26' 36.436" E
	14	26° 30' 54.273" N	89° 26' 35.251" E
	15	26° 30' 57.308" N	89° 26' 33.389" E
	16	26° 30' 57.973" N	89° 26' 33.338" E
	17	26° 30' 57.371" N	89° 26' 34.181" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	18	26° 30' 56.733" N	89° 26' 35.732" E
	19	26° 30' 55.996" N	89° 26' 37.880" E
	20	26° 30' 55.729" N	89° 26' 39.383" E
	21	26° 30' 55.571" N	89° 26' 40.980" E
	22	26° 30' 55.323" N	89° 26' 43.558" E
	23	26° 30' 55.165" N	89° 26' 45.191" E
	24	26° 30' 55.885" N	89° 26' 49.560" E
	25	26° 30' 56.099" N	89° 26' 50.670" E
	26	26° 30' 56.312" N	89° 26' 52.433" E
	27	26° 30' 56.811" N	89° 26' 53.520" E
	28	26° 30' 57.276" N	89° 26' 54.525" E
	29	26° 30' 57.830" N	89° 26' 55.924" E
	30	26° 30' 58.402" N	89° 26' 57.370" E
	31	26° 30' 59.292" N	89° 26' 59.482" E
	32	26° 31' 0.365" N	89° 27' 1.664" E
	33	26° 31' 0.751" N	89° 27' 4.206" E
	34	26° 31' 0.682" N	89° 27' 7.648" E
	35	26° 31' 0.109" N	89° 27' 10.551" E
	36	26° 30' 59.543" N	89° 27' 12.213" E
	37	26° 30' 58.897" N	89° 27' 13.456" E
AD_AD1_KJ_33	1	26° 30' 42.867" N	89° 27' 55.342" E
	2	26° 30' 39.878" N	89° 27' 54.227" E
	3	26° 30' 38.445" N	89° 27' 52.572" E
	4	26° 30' 38.128" N	89° 27' 51.037" E
	5	26° 30' 38.338" N	89° 27' 48.844" E
	6	26° 30' 40.107" N	89° 27' 45.920" E
	7	26° 30' 40.998" N	89° 27' 44.940" E
	8	26° 30' 40.969" N	89° 27' 45.257" E
	9	26° 30' 41.256" N	89° 27' 47.064" E
	10	26° 30' 41.565" N	89° 27' 48.758" E
	11	26° 30' 42.556" N	89° 27' 50.828" E
	12	26° 30' 43.396" N	89° 27' 52.508" E
	13	26° 30' 43.765" N	89° 27' 53.088" E
	14	26° 30' 44.425" N	89° 27' 54.235" E
	15	26° 30' 45.075" N	89° 27' 55.013" E
	16	26° 30' 45.676" N	89° 27' 55.744" E
	17	26° 30' 46.132" N	89° 27' 56.377" E
	18	26° 30' 45.679" N	89° 27' 56.739" E
	19	26° 30' 44.222" N	89° 27' 56.517" E
AD_AD1_KJ_34	1	26° 30' 52.667" N	89° 28' 25.074" E
	2	26° 30' 48.332" N	89° 28' 27.178" E
	3	26° 30' 45.999" N	89° 28' 27.893" E
	4	26° 30' 42.106" N	89° 28' 29.338" E
	5	26° 30' 40.958" N	89° 28' 29.788" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	6	26° 30' 41.614" N	89° 28' 29.112" E
	7	26° 30' 42.765" N	89° 28' 27.892" E
	8	26° 30' 43.977" N	89° 28' 26.635" E
	9	26° 30' 45.166" N	89° 28' 25.474" E
	10	26° 30' 46.411" N	89° 28' 24.215" E
	11	26° 30' 47.557" N	89° 28' 22.755" E
	12	26° 30' 48.446" N	89° 28' 21.342" E
	13	26° 30' 49.395" N	89° 28' 19.820" E
	14	26° 30' 49.858" N	89° 28' 18.581" E
	15	26° 30' 50.324" N	89° 28' 17.431" E
	16	26° 30' 50.561" N	89° 28' 16.857" E
	17	26° 30' 50.794" N	89° 28' 16.339" E
	18	26° 30' 50.797" N	89° 28' 15.780" E
	19	26° 30' 50.818" N	89° 28' 15.130" E
	20	26° 30' 50.821" N	89° 28' 14.627" E
	21	26° 30' 50.123" N	89° 28' 13.581" E
	22	26° 30' 49.769" N	89° 28' 12.711" E
	23	26° 30' 49.386" N	89° 28' 11.176" E
	24	26° 30' 48.519" N	89° 28' 9.656" E
	25	26° 30' 47.603" N	89° 28' 8.094" E
	26	26° 30' 47.595" N	89° 28' 6.317" E
	27	26° 30' 47.560" N	89° 28' 4.801" E
	28	26° 30' 47.553" N	89° 28' 4.466" E
	29	26° 30' 46.364" N	89° 28' 2.911" E
	30	26° 30' 45.914" N	89° 28' 2.326" E
	31	26° 30' 49.245" N	89° 28' 4.268" E
	32	26° 30' 52.971" N	89° 28' 7.500" E
	33	26° 30' 54.571" N	89° 28' 9.446" E
	34	26° 30' 55.531" N	89° 28' 13.574" E
	35	26° 30' 54.954" N	89° 28' 17.097" E
	36	26° 30' 54.461" N	89° 28' 20.717" E
	37	26° 30' 53.385" N	89° 28' 23.274" E
AD_AD1_KJ_35	1	26° 30' 18.716" N	89° 28' 38.881" E
	2	26° 30' 17.365" N	89° 28' 38.456" E
	3	26° 30' 19.386" N	89° 28' 35.920" E
	4	26° 30' 23.864" N	89° 28' 35.443" E
	5	26° 30' 31.931" N	89° 28' 35.803" E
	6	26° 30' 31.603" N	89° 28' 37.043" E
	7	26° 30' 30.617" N	89° 28' 37.816" E
	8	26° 30' 29.235" N	89° 28' 37.787" E
	9	26° 30' 27.990" N	89° 28' 38.591" E
	10	26° 30' 27.050" N	89° 28' 39.395" E
	11	26° 30' 26.265" N	89° 28' 40.151" E
	12	26° 30' 24.867" N	89° 28' 40.121" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	13	26° 30' 23.776" N	89° 28' 40.223" E
	14	26° 30' 22.712" N	89° 28' 40.302" E
	15	26° 30' 21.248" N	89° 28' 40.362" E
	16	26° 30' 21.039" N	89° 28' 40.073" E
	17	26° 30' 20.955" N	89° 28' 39.584" E
	18	26° 30' 20.605" N	89° 28' 39.474" E
	19	26° 30' 20.584" N	89° 28' 39.445" E
	20	26° 30' 19.946" N	89° 28' 38.522" E
	21	26° 30' 19.044" N	89° 28' 38.785" E
AD_AD1_KJ_36	1	26° 30' 3.206" N	89° 29' 6.716" E
	2	26° 29' 59.867" N	89° 29' 5.976" E
	3	26° 29' 57.405" N	89° 29' 4.203" E
	4	26° 29' 56.434" N	89° 29' 0.743" E
	5	26° 29' 56.918" N	89° 28' 57.601" E
	6	26° 30' 0.357" N	89° 28' 52.612" E
	7	26° 30' 4.275" N	89° 28' 48.503" E
	8	26° 30' 4.142" N	89° 28' 49.833" E
	9	26° 30' 3.315" N	89° 28' 50.881" E
	10	26° 30' 2.638" N	89° 28' 51.664" E
	11	26° 30' 2.074" N	89° 28' 53.481" E
	12	26° 30' 1.614" N	89° 28' 54.514" E
	13	26° 30' 0.959" N	89° 28' 56.009" E
	14	26° 30' 0.530" N	89° 28' 56.838" E
	15	26° 30' 0.431" N	89° 28' 57.279" E
	16	26° 30' 0.429" N	89° 28' 57.519" E
	17	26° 30' 0.429" N	89° 28' 57.771" E
	18	26° 30' 0.545" N	89° 28' 58.989" E
	19	26° 30' 0.664" N	89° 29' 0.415" E
	20	26° 30' 0.812" N	89° 29' 1.552" E
	21	26° 30' 1.522" N	89° 29' 2.357" E
	22	26° 30' 2.270" N	89° 29' 3.116" E
	23	26° 30' 3.199" N	89° 29' 4.020" E
	24	26° 30' 4.028" N	89° 29' 4.751" E
	25	26° 30' 5.016" N	89° 29' 5.641" E
	26	26° 30' 5.048" N	89° 29' 6.859" E
	27	26° 30' 5.097" N	89° 29' 7.134" E
AD_AD1_KJ_37	1	26° 29' 53.796" N	89° 28' 54.286" E
	2	26° 29' 53.577" N	89° 28' 52.440" E
	3	26° 29' 53.858" N	89° 28' 51.077" E
	4	26° 29' 54.999" N	89° 28' 49.752" E
	5	26° 29' 56.061" N	89° 28' 47.768" E
	6	26° 29' 56.991" N	89° 28' 46.040" E
	7	26° 29' 58.038" N	89° 28' 43.576" E
	8	26° 29' 59.516" N	89° 28' 42.249" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	9	26° 30' 1.019" N	89° 28' 40.875" E
	10	26° 30' 2.236" N	89° 28' 39.758" E
	11	26° 30' 4.016" N	89° 28' 39.383" E
	12	26° 30' 5.470" N	89° 28' 39.077" E
	13	26° 30' 7.106" N	89° 28' 38.712" E
	14	26° 30' 8.648" N	89° 28' 38.394" E
	15	26° 30' 9.167" N	89° 28' 38.261" E
	16	26° 30' 7.088" N	89° 28' 41.197" E
	17	26° 30' 4.742" N	89° 28' 42.675" E
	18	26° 30' 2.217" N	89° 28' 44.532" E
	19	26° 30' 0.016" N	89° 28' 47.542" E
	20	26° 29' 56.610" N	89° 28' 50.621" E
AD_AD1_KJ_38	1	26° 30' 10.007" N	89° 30' 4.125" E
	2	26° 30' 8.839" N	89° 30' 4.099" E
	3	26° 30' 8.357" N	89° 30' 0.191" E
	4	26° 30' 7.085" N	89° 29' 58.253" E
	5	26° 30' 6.855" N	89° 29' 55.650" E
	6	26° 30' 7.615" N	89° 29' 51.539" E
	7	26° 30' 9.437" N	89° 29' 45.617" E
	8	26° 30' 9.487" N	89° 29' 46.396" E
	9	26° 30' 9.432" N	89° 29' 46.698" E
	10	26° 30' 9.469" N	89° 29' 47.615" E
	11	26° 30' 9.788" N	89° 29' 49.441" E
	12	26° 30' 9.683" N	89° 29' 52.321" E
	13	26° 30' 9.601" N	89° 29' 55.130" E
	14	26° 30' 9.590" N	89° 29' 57.710" E
	15	26° 30' 9.586" N	89° 29' 57.954" E
	16	26° 30' 9.567" N	89° 29' 59.032" E
	17	26° 30' 9.339" N	89° 29' 59.066" E
	18	26° 30' 9.527" N	89° 30' 0.140" E
	19	26° 30' 9.528" N	89° 30' 0.140" E
	20	26° 30' 9.489" N	89° 30' 0.937" E
	21	26° 30' 9.570" N	89° 30' 1.762" E
	22	26° 30' 9.591" N	89° 30' 2.749" E
	23	26° 30' 9.756" N	89° 30' 3.181" E
	24	26° 30' 10.000" N	89° 30' 3.952" E
	25	26° 30' 10.010" N	89° 30' 3.981" E
AD_AD1_KJ_39	1	26° 30' 11.543" N	89° 30' 26.321" E
	2	26° 30' 9.638" N	89° 30' 29.031" E
	3	26° 30' 7.812" N	89° 30' 31.208" E
	4	26° 30' 6.285" N	89° 30' 32.015" E
	5	26° 30' 1.427" N	89° 30' 30.687" E
	6	26° 29' 58.057" N	89° 30' 30.552" E
	7	26° 29' 58.498" N	89° 30' 30.219" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	8	26° 29' 59.039" N	89° 30' 30.180" E
	9	26° 29' 59.656" N	89° 30' 30.126" E
	10	26° 30' 0.422" N	89° 30' 30.062" E
	11	26° 30' 1.324" N	89° 30' 29.981" E
	12	26° 30' 2.428" N	89° 30' 29.810" E
	13	26° 30' 3.379" N	89° 30' 29.270" E
	14	26° 30' 4.343" N	89° 30' 28.749" E
	15	26° 30' 5.269" N	89° 30' 28.206" E
	16	26° 30' 5.857" N	89° 30' 27.810" E
	17	26° 30' 6.545" N	89° 30' 26.633" E
	18	26° 30' 7.239" N	89° 30' 25.396" E
	19	26° 30' 7.983" N	89° 30' 24.245" E
	20	26° 30' 8.863" N	89° 30' 23.062" E
	21	26° 30' 9.501" N	89° 30' 22.086" E
	22	26° 30' 10.015" N	89° 30' 21.254" E
	23	26° 30' 10.407" N	89° 30' 20.309" E
	24	26° 30' 10.501" N	89° 30' 19.230" E
	25	26° 30' 10.512" N	89° 30' 17.449" E
	26	26° 30' 10.506" N	89° 30' 15.828" E
	27	26° 30' 10.509" N	89° 30' 15.616" E
	28	26° 30' 11.769" N	89° 30' 17.384" E
	29	26° 30' 12.053" N	89° 30' 20.753" E
	30	26° 30' 12.367" N	89° 30' 22.441" E
AD_AD1_KJ_40	1	26° 29' 42.462" N	89° 30' 39.309" E
	2	26° 29' 36.906" N	89° 30' 40.779" E
	3	26° 29' 36.907" N	89° 30' 40.777" E
	4	26° 29' 37.659" N	89° 30' 37.125" E
	5	26° 29' 41.287" N	89° 30' 34.147" E
	6	26° 29' 45.295" N	89° 30' 33.011" E
	7	26° 29' 47.880" N	89° 30' 34.596" E
	8	26° 29' 47.892" N	89° 30' 35.205" E
	9	26° 29' 47.712" N	89° 30' 35.709" E
	10	26° 29' 47.107" N	89° 30' 35.939" E
	11	26° 29' 45.747" N	89° 30' 36.444" E
	12	26° 29' 44.496" N	89° 30' 36.911" E
	13	26° 29' 43.392" N	89° 30' 37.354" E
	14	26° 29' 42.769" N	89° 30' 38.711" E
AD_AD1_KJ_41	1	26° 29' 20.340" N	89° 31' 11.670" E
	2	26° 29' 18.080" N	89° 31' 11.163" E
	3	26° 29' 19.134" N	89° 31' 9.887" E
	4	26° 29' 20.212" N	89° 31' 7.235" E
	5	26° 29' 21.241" N	89° 31' 3.514" E
	6	26° 29' 22.993" N	89° 31' 1.641" E
	7	26° 29' 26.132" N	89° 30' 59.112" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	8	26° 29' 29.508" N	89° 30' 54.829" E
	9	26° 29' 30.621" N	89° 30' 53.291" E
	10	26° 29' 32.524" N	89° 30' 56.827" E
	11	26° 29' 32.525" N	89° 30' 56.861" E
	12	26° 29' 32.366" N	89° 30' 57.342" E
	13	26° 29' 32.030" N	89° 30' 58.221" E
	14	26° 29' 30.593" N	89° 30' 59.591" E
	15	26° 29' 29.105" N	89° 31' 2.080" E
	16	26° 29' 25.586" N	89° 31' 6.665" E
	17	26° 29' 23.641" N	89° 31' 11.666" E
AD_AD1_KJ_42	1	26° 28' 15.542" N	89° 30' 49.730" E
	2	26° 28' 15.556" N	89° 30' 49.721" E
	3	26° 28' 17.351" N	89° 30' 48.497" E
	4	26° 28' 18.687" N	89° 30' 47.700" E
	5	26° 28' 18.998" N	89° 30' 47.515" E
	6	26° 28' 20.797" N	89° 30' 46.738" E
	7	26° 28' 24.086" N	89° 30' 45.941" E
	8	26° 28' 24.983" N	89° 30' 45.862" E
	9	26° 28' 25.552" N	89° 30' 45.829" E
	10	26° 28' 27.260" N	89° 30' 45.728" E
	11	26° 28' 29.946" N	89° 30' 45.706" E
	12	26° 28' 32.165" N	89° 30' 45.983" E
	13	26° 28' 34.045" N	89° 30' 46.385" E
	14	26° 28' 33.630" N	89° 30' 48.565" E
	15	26° 28' 28.869" N	89° 30' 48.181" E
	16	26° 28' 24.785" N	89° 30' 51.434" E
	17	26° 28' 20.677" N	89° 30' 52.819" E
	18	26° 28' 13.677" N	89° 30' 51.444" E
AD_AD1_KJ_43	1	26° 28' 26.898" N	89° 31' 38.209" E
	2	26° 28' 22.761" N	89° 31' 32.220" E
	3	26° 28' 25.357" N	89° 31' 29.446" E
	4	26° 28' 26.357" N	89° 31' 30.851" E
	5	26° 28' 27.191" N	89° 31' 32.022" E
	6	26° 28' 29.308" N	89° 31' 34.802" E
	7	26° 28' 31.046" N	89° 31' 37.463" E
	8	26° 28' 31.512" N	89° 31' 38.237" E
	9	26° 28' 32.048" N	89° 31' 39.836" E
	10	26° 28' 33.295" N	89° 31' 41.398" E
	11	26° 28' 34.208" N	89° 31' 43.399" E
	12	26° 28' 34.478" N	89° 31' 43.989" E
	13	26° 28' 35.779" N	89° 31' 47.631" E
	14	26° 28' 37.222" N	89° 31' 50.915" E
	15	26° 28' 37.732" N	89° 31' 52.096" E
	16	26° 28' 38.561" N	89° 31' 54.012" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	17	26° 28' 38.917" N	89° 31' 55.523" E
	18	26° 28' 38.867" N	89° 31' 57.035" E
	19	26° 28' 37.467" N	89° 31' 55.355" E
	20	26° 28' 35.001" N	89° 31' 55.062" E
	21	26° 28' 32.746" N	89° 31' 48.924" E
	22	26° 28' 30.687" N	89° 31' 43.865" E
AD_AD1_KJ_44	1	26° 28' 34.709" N	89° 32' 7.161" E
	2	26° 28' 33.002" N	89° 32' 10.333" E
	3	26° 28' 31.929" N	89° 32' 12.678" E
	4	26° 28' 28.978" N	89° 32' 12.384" E
	5	26° 28' 27.808" N	89° 32' 9.694" E
	6	26° 28' 27.830" N	89° 32' 9.684" E
	7	26° 28' 28.398" N	89° 32' 9.138" E
	8	26° 28' 29.562" N	89° 32' 7.723" E
	9	26° 28' 30.382" N	89° 32' 7.486" E
	10	26° 28' 31.228" N	89° 32' 7.212" E
	11	26° 28' 32.263" N	89° 32' 5.879" E
	12	26° 28' 33.206" N	89° 32' 4.331" E
	13	26° 28' 33.268" N	89° 32' 2.060" E
	14	26° 28' 32.664" N	89° 32' 0.402" E
	15	26° 28' 31.247" N	89° 31' 59.407" E
	16	26° 28' 30.082" N	89° 31' 58.240" E
	17	26° 28' 30.164" N	89° 31' 57.681" E
	18	26° 28' 31.271" N	89° 31' 56.925" E
	19	26° 28' 31.684" N	89° 31' 56.792" E
	20	26° 28' 31.725" N	89° 31' 57.087" E
	21	26° 28' 31.884" N	89° 31' 59.764" E
	22	26° 28' 33.789" N	89° 32' 0.876" E
	23	26° 28' 34.243" N	89° 32' 2.414" E
	24	26° 28' 35.464" N	89° 32' 3.358" E
	25	26° 28' 35.483" N	89° 32' 6.185" E
AD_AD2_KJ_45_46	1	26° 28' 0.784" N	89° 32' 36.180" E
	2	26° 27' 59.654" N	89° 32' 37.640" E
	3	26° 27' 58.807" N	89° 32' 42.740" E
	4	26° 27' 56.614" N	89° 32' 46.484" E
	5	26° 27' 53.591" N	89° 32' 49.124" E
	6	26° 27' 52.345" N	89° 32' 49.718" E
	7	26° 27' 49.370" N	89° 32' 49.374" E
	8	26° 27' 48.655" N	89° 32' 48.916" E
	9	26° 27' 48.524" N	89° 32' 48.702" E
	10	26° 27' 49.986" N	89° 32' 47.665" E
	11	26° 27' 53.755" N	89° 32' 44.539" E
	12	26° 27' 56.779" N	89° 32' 40.786" E
	13	26° 27' 57.920" N	89° 32' 36.107" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
AD_AD2_KJ_47	1	26° 27' 41.125" N	89° 32' 39.448" E
	2	26° 27' 40.628" N	89° 32' 36.458" E
	3	26° 27' 40.829" N	89° 32' 32.872" E
	4	26° 27' 40.468" N	89° 32' 26.141" E
	5	26° 27' 40.833" N	89° 32' 24.601" E
	6	26° 27' 41.860" N	89° 32' 26.200" E
	7	26° 27' 42.182" N	89° 32' 29.218" E
	8	26° 27' 42.294" N	89° 32' 31.916" E
	9	26° 27' 43.235" N	89° 32' 34.408" E
	10	26° 27' 44.712" N	89° 32' 35.559" E
	11	26° 27' 45.932" N	89° 32' 36.725" E
	12	26° 27' 47.223" N	89° 32' 38.027" E
	13	26° 27' 48.054" N	89° 32' 38.764" E
	14	26° 27' 49.060" N	89° 32' 39.040" E
	15	26° 27' 50.079" N	89° 32' 39.400" E
	16	26° 27' 51.005" N	89° 32' 39.421" E
	17	26° 27' 52.558" N	89° 32' 39.159" E
	18	26° 27' 53.927" N	89° 32' 37.689" E
	19	26° 27' 54.012" N	89° 32' 37.822" E
	20	26° 27' 51.332" N	89° 32' 41.583" E
	21	26° 27' 47.720" N	89° 32' 43.642" E
	22	26° 27' 44.627" N	89° 32' 43.574" E
	23	26° 27' 43.127" N	89° 32' 42.854" E
AD_AD2_KJ_48	1	26° 27' 10.143" N	89° 32' 42.455" E
	2	26° 27' 8.256" N	89° 32' 45.128" E
	3	26° 27' 8.241" N	89° 32' 45.141" E
	4	26° 27' 7.262" N	89° 32' 45.321" E
	5	26° 27' 7.762" N	89° 32' 44.262" E
	6	26° 27' 8.970" N	89° 32' 42.074" E
	7	26° 27' 9.428" N	89° 32' 39.563" E
	8	26° 27' 9.460" N	89° 32' 37.730" E
	9	26° 27' 9.287" N	89° 32' 35.893" E
	10	26° 27' 8.842" N	89° 32' 33.821" E
	11	26° 27' 6.402" N	89° 32' 27.961" E
	12	26° 27' 3.746" N	89° 32' 25.167" E
	13	26° 27' 3.964" N	89° 32' 24.044" E
	14	26° 27' 4.168" N	89° 32' 22.971" E
	15	26° 27' 7.068" N	89° 32' 25.147" E
	16	26° 27' 7.328" N	89° 32' 25.807" E
	17	26° 27' 7.515" N	89° 32' 26.452" E
	18	26° 27' 7.594" N	89° 32' 26.726" E
	19	26° 27' 8.387" N	89° 32' 29.463" E
	20	26° 27' 8.400" N	89° 32' 29.490" E
	21	26° 27' 9.203" N	89° 32' 31.248" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	22	26° 27' 10.449" N	89° 32' 34.040" E
	23	26° 27' 10.487" N	89° 32' 36.872" E
	24	26° 27' 10.407" N	89° 32' 39.538" E
AD_AD2_KJ_49	1	26° 26' 49.191" N	89° 32' 48.437" E
	2	26° 26' 41.763" N	89° 32' 48.503" E
	3	26° 26' 43.135" N	89° 32' 46.908" E
	4	26° 26' 43.647" N	89° 32' 46.794" E
	5	26° 26' 44.630" N	89° 32' 46.574" E
	6	26° 26' 46.960" N	89° 32' 46.206" E
	7	26° 26' 49.128" N	89° 32' 45.790" E
	8	26° 26' 49.474" N	89° 32' 45.719" E
	9	26° 26' 51.337" N	89° 32' 45.331" E
	10	26° 26' 53.459" N	89° 32' 44.829" E
	11	26° 26' 54.321" N	89° 32' 44.625" E
	12	26° 26' 54.681" N	89° 32' 44.540" E
	13	26° 26' 55.890" N	89° 32' 44.254" E
	14	26° 26' 58.141" N	89° 32' 43.704" E
	15	26° 26' 59.894" N	89° 32' 43.268" E
	16	26° 27' 0.762" N	89° 32' 43.497" E
	17	26° 27' 1.646" N	89° 32' 42.757" E
	18	26° 27' 1.734" N	89° 32' 42.731" E
	19	26° 27' 3.084" N	89° 32' 42.314" E
	20	26° 27' 3.401" N	89° 32' 42.173" E
	21	26° 27' 3.594" N	89° 32' 42.088" E
	22	26° 27' 2.992" N	89° 32' 45.685" E
	23	26° 27' 1.597" N	89° 32' 46.800" E
	24	26° 26' 58.891" N	89° 32' 48.192" E
	25	26° 26' 54.962" N	89° 32' 48.717" E
AD_AD2_KJ_50	1	26° 25' 34.895" N	89° 32' 56.417" E
	2	26° 25' 33.276" N	89° 33' 1.207" E
	3	26° 25' 32.514" N	89° 33' 0.803" E
	4	26° 25' 29.589" N	89° 32' 58.982" E
	5	26° 25' 25.712" N	89° 32' 56.606" E
	6	26° 25' 22.220" N	89° 32' 54.178" E
	7	26° 25' 23.809" N	89° 32' 49.666" E
	8	26° 25' 25.181" N	89° 32' 48.847" E
	9	26° 25' 27.129" N	89° 32' 47.587" E
	10	26° 25' 30.223" N	89° 32' 50.921" E
	11	26° 25' 34.730" N	89° 32' 54.478" E
	12	26° 25' 34.659" N	89° 32' 53.639" E
	13	26° 25' 34.587" N	89° 32' 52.798" E
	14	26° 25' 34.742" N	89° 32' 53.435" E
AD_AD2_KJ_51	1	26° 24' 55.031" N	89° 32' 54.863" E
	2	26° 24' 53.431" N	89° 32' 54.673" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	3	26° 24' 53.587" N	89° 32' 47.567" E
	4	26° 24' 57.997" N	89° 32' 44.165" E
	5	26° 25' 2.594" N	89° 32' 51.582" E
	6	26° 25' 3.989" N	89° 32' 56.118" E
	7	26° 25' 4.083" N	89° 32' 56.425" E
	8	26° 25' 2.267" N	89° 32' 57.941" E
	9	26° 25' 0.764" N	89° 32' 57.280" E
	10	26° 24' 57.077" N	89° 32' 55.825" E
AD_KG_RD2_01	1	26° 42' 5.061" N	89° 46' 33.394" E
	2	26° 41' 57.907" N	89° 46' 42.399" E
	3	26° 41' 52.616" N	89° 46' 48.495" E
	4	26° 41' 50.048" N	89° 46' 51.454" E
	5	26° 41' 45.810" N	89° 46' 55.944" E
	6	26° 41' 44.667" N	89° 46' 55.817" E
	7	26° 41' 44.722" N	89° 46' 55.565" E
	8	26° 41' 39.533" N	89° 46' 50.030" E
	9	26° 41' 41.285" N	89° 46' 48.351" E
	10	26° 41' 48.151" N	89° 46' 40.002" E
	11	26° 41' 51.237" N	89° 46' 34.565" E
	12	26° 41' 49.900" N	89° 46' 33.416" E
	13	26° 41' 49.523" N	89° 46' 31.570" E
	14	26° 41' 51.922" N	89° 46' 28.817" E
	15	26° 41' 51.518" N	89° 46' 27.831" E
	16	26° 41' 51.770" N	89° 46' 26.949" E
	17	26° 41' 53.333" N	89° 46' 25.736" E
	18	26° 41' 55.552" N	89° 46' 23.683" E
	19	26° 41' 56.992" N	89° 46' 22.214" E
	20	26° 41' 57.812" N	89° 46' 22.606" E
	21	26° 41' 59.428" N	89° 46' 20.788" E
	22	26° 42' 1.287" N	89° 46' 18.581" E
	23	26° 42' 1.094" N	89° 46' 18.030" E
	24	26° 42' 2.420" N	89° 46' 16.678" E
	25	26° 42' 4.611" N	89° 46' 15.774" E
	26	26° 42' 4.740" N	89° 46' 16.343" E
	27	26° 42' 5.710" N	89° 46' 20.606" E
	28	26° 42' 7.470" N	89° 46' 25.569" E
	29	26° 42' 8.735" N	89° 46' 29.135" E
	30	26° 42' 6.415" N	89° 46' 31.824" E
AD_KG_RD2_02	1	26° 40' 28.676" N	89° 47' 15.117" E
	2	26° 40' 21.992" N	89° 47' 20.694" E
	3	26° 40' 10.353" N	89° 47' 29.164" E
	4	26° 40' 7.957" N	89° 47' 33.329" E
	5	26° 40' 6.909" N	89° 47' 33.163" E
	6	26° 40' 6.072" N	89° 47' 33.030" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	7	26° 40' 9.087" N	89° 47' 27.985" E
	8	26° 40' 17.767" N	89° 47' 12.699" E
	9	26° 40' 19.478" N	89° 47' 10.876" E
	10	26° 40' 24.111" N	89° 47' 11.275" E
	11	26° 40' 23.405" N	89° 47' 14.415" E
	12	26° 40' 23.634" N	89° 47' 15.855" E
	13	26° 40' 31.248" N	89° 47' 8.866" E
	14	26° 40' 35.324" N	89° 47' 4.804" E
	15	26° 40' 37.644" N	89° 47' 4.860" E
	16	26° 40' 35.148" N	89° 47' 7.239" E
	17	26° 40' 27.360" N	89° 47' 9.919" E
	18	26° 40' 21.691" N	89° 47' 9.782" E
	19	26° 40' 23.551" N	89° 47' 6.957" E
	20	26° 40' 24.868" N	89° 47' 5.554" E
	21	26° 40' 24.126" N	89° 47' 3.958" E
	22	26° 40' 22.053" N	89° 47' 4.481" E
	23	26° 40' 18.761" N	89° 47' 7.989" E
	24	26° 40' 16.523" N	89° 47' 10.373" E
	25	26° 40' 14.279" N	89° 47' 13.045" E
	26	26° 40' 10.999" N	89° 47' 15.979" E
	27	26° 40' 8.268" N	89° 47' 17.203" E
	28	26° 40' 3.111" N	89° 47' 17.221" E
	29	26° 39' 58.430" N	89° 47' 19.260" E
	30	26° 39' 57.629" N	89° 47' 20.675" E
	31	26° 39' 57.598" N	89° 47' 22.253" E
	32	26° 40' 0.959" N	89° 47' 21.761" E
	33	26° 40' 5.760" N	89° 47' 20.156" E
	34	26° 40' 11.097" N	89° 47' 17.559" E
	35	26° 40' 15.951" N	89° 47' 13.229" E
	36	26° 40' 10.612" N	89° 47' 22.569" E
	37	26° 40' 7.689" N	89° 47' 26.946" E
	38	26° 40' 2.642" N	89° 47' 27.971" E
	39	26° 40' 1.157" N	89° 47' 31.379" E
	40	26° 40' 1.349" N	89° 47' 31.754" E
	41	26° 39' 57.524" N	89° 47' 30.654" E
	43	26° 39' 59.833" N	89° 47' 26.612" E
	44	26° 39' 58.043" N	89° 47' 25.851" E
	45	26° 39' 55.466" N	89° 47' 25.788" E
	46	26° 39' 53.430" N	89° 47' 29.198" E
	47	26° 39' 51.266" N	89° 47' 28.423" E
	48	26° 39' 43.465" N	89° 47' 29.438" E
	49	26° 39' 37.192" N	89° 47' 31.488" E
	50	26° 39' 29.728" N	89° 47' 29.710" E
	51	26° 39' 25.432" N	89° 47' 28.960" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	52	26° 39' 24.878" N	89° 47' 29.075" E
	53	26° 39' 17.868" N	89° 47' 30.534" E
	54	26° 39' 13.468" N	89° 47' 32.130" E
	55	26° 39' 6.040" N	89° 47' 36.564" E
	56	26° 39' 5.808" N	89° 47' 36.703" E
	57	26° 39' 4.498" N	89° 47' 37.334" E
	58	26° 39' 3.894" N	89° 47' 37.401" E
	59	26° 38' 50.446" N	89° 47' 39.226" E
	60	26° 38' 40.866" N	89° 47' 40.188" E
	61	26° 38' 33.942" N	89° 47' 42.649" E
	62	26° 38' 28.491" N	89° 47' 46.700" E
	63	26° 38' 27.286" N	89° 47' 47.866" E
	64	26° 38' 22.821" N	89° 47' 50.985" E
	65	26° 38' 18.855" N	89° 47' 50.530" E
	66	26° 38' 14.868" N	89° 47' 51.150" E
	67	26° 38' 13.714" N	89° 47' 51.412" E
	68	26° 38' 11.540" N	89° 47' 52.698" E
	69	26° 38' 6.080" N	89° 47' 55.172" E
	70	26° 38' 3.278" N	89° 47' 57.660" E
	71	26° 37' 58.121" N	89° 48' 1.351" E
	72	26° 37' 56.118" N	89° 48' 3.535" E
	73	26° 37' 51.823" N	89° 48' 7.613" E
	74	26° 37' 48.328" N	89° 48' 8.035" E
	75	26° 37' 45.708" N	89° 48' 8.419" E
	76	26° 37' 42.192" N	89° 48' 10.789" E
	77	26° 37' 38.780" N	89° 48' 10.670" E
	78	26° 37' 40.804" N	89° 48' 8.755" E
	79	26° 37' 44.382" N	89° 48' 3.822" E
	80	26° 37' 45.426" N	89° 48' 0.892" E
	81	26° 37' 45.258" N	89° 47' 59.095" E
	82	26° 37' 46.120" N	89° 47' 57.204" E
	83	26° 37' 46.760" N	89° 47' 56.148" E
	84	26° 37' 47.396" N	89° 47' 55.246" E
	85	26° 37' 48.669" N	89° 47' 53.441" E
	86	26° 37' 51.176" N	89° 47' 51.819" E
	87	26° 37' 54.444" N	89° 47' 49.986" E
	88	26° 37' 58.203" N	89° 47' 47.630" E
	89	26° 38' 0.658" N	89° 47' 45.165" E
	90	26° 38' 1.995" N	89° 47' 43.591" E
	91	26° 38' 5.206" N	89° 47' 41.145" E
	92	26° 38' 8.529" N	89° 47' 41.043" E
	93	26° 38' 11.203" N	89° 47' 40.534" E
	94	26° 38' 13.002" N	89° 47' 40.198" E
	95	26° 38' 13.925" N	89° 47' 38.497" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	96	26° 38' 17.276" N	89° 47' 36.510" E
	97	26° 38' 18.546" N	89° 47' 38.927" E
	98	26° 38' 22.797" N	89° 47' 35.803" E
	99	26° 38' 27.924" N	89° 47' 31.863" E
	100	26° 38' 29.493" N	89° 47' 30.874" E
	101	26° 38' 27.619" N	89° 47' 29.677" E
	102	26° 38' 29.713" N	89° 47' 26.978" E
	103	26° 38' 31.261" N	89° 47' 24.744" E
	104	26° 38' 33.252" N	89° 47' 24.666" E
	105	26° 38' 34.318" N	89° 47' 23.531" E
	106	26° 38' 34.365" N	89° 47' 21.141" E
	107	26° 38' 33.493" N	89° 47' 21.232" E
	108	26° 38' 36.568" N	89° 47' 17.103" E
	109	26° 38' 37.941" N	89° 47' 14.031" E
	110	26° 38' 39.239" N	89° 47' 13.609" E
	111	26° 38' 40.764" N	89° 47' 12.570" E
	112	26° 38' 41.828" N	89° 47' 13.074" E
	113	26° 38' 42.313" N	89° 47' 15.716" E
	114	26° 38' 42.250" N	89° 47' 18.942" E
	115	26° 38' 40.380" N	89° 47' 21.168" E
	116	26° 38' 38.961" N	89° 47' 22.329" E
	117	26° 38' 37.012" N	89° 47' 23.118" E
	118	26° 38' 36.306" N	89° 47' 26.209" E
	119	26° 38' 34.610" N	89° 47' 28.614" E
	120	26° 38' 38.839" N	89° 47' 28.542" E
	121	26° 38' 43.453" N	89° 47' 28.774" E
	122	26° 38' 45.741" N	89° 47' 27.156" E
	123	26° 38' 45.459" N	89° 47' 25.117" E
	124	26° 38' 46.533" N	89° 47' 25.143" E
	125	26° 38' 50.372" N	89° 47' 26.552" E
	126	26° 38' 57.679" N	89° 47' 26.490" E
	127	26° 39' 3.683" N	89° 47' 29.124" E
	128	26° 39' 7.305" N	89° 47' 28.637" E
	129	26° 39' 14.377" N	89° 47' 29.527" E
	130	26° 39' 17.762" N	89° 47' 28.401" E
	131	26° 39' 19.333" N	89° 47' 27.878" E
	132	26° 39' 19.461" N	89° 47' 27.781" E
	133	26° 39' 19.896" N	89° 47' 27.691" E
	134	26° 39' 26.321" N	89° 47' 26.370" E
	135	26° 39' 32.533" N	89° 47' 25.086" E
	136	26° 39' 37.970" N	89° 47' 23.927" E
	137	26° 39' 43.649" N	89° 47' 17.035" E
	138	26° 39' 49.094" N	89° 47' 15.446" E
	139	26° 39' 51.719" N	89° 47' 13.070" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	140	26° 39' 55.154" N	89° 47' 8.850" E
	141	26° 39' 53.801" N	89° 47' 5.517" E
	142	26° 39' 48.378" N	89° 47' 5.959" E
	143	26° 39' 44.975" N	89° 47' 8.602" E
	144	26° 39' 41.529" N	89° 47' 13.397" E
	145	26° 39' 38.579" N	89° 47' 12.607" E
	146	26° 39' 38.120" N	89° 47' 9.727" E
	147	26° 39' 39.880" N	89° 47' 5.465" E
	148	26° 39' 42.631" N	89° 47' 3.237" E
	149	26° 39' 46.404" N	89° 47' 1.463" E
	150	26° 39' 48.468" N	89° 47' 1.370" E
	151	26° 39' 52.479" N	89° 47' 0.606" E
	152	26° 39' 55.779" N	89° 46' 56.669" E
	153	26° 39' 58.228" N	89° 46' 56.728" E
	154	26° 40' 1.191" N	89° 46' 56.800" E
	155	26° 40' 5.303" N	89° 46' 57.474" E
	156	26° 40' 10.827" N	89° 46' 58.469" E
	157	26° 40' 16.804" N	89° 46' 56.031" E
	158	26° 40' 20.331" N	89° 46' 53.678" E
	159	26° 40' 23.174" N	89° 46' 53.316" E
	160	26° 40' 28.586" N	89° 46' 53.448" E
	161	26° 40' 31.132" N	89° 46' 55.088" E
	162	26° 40' 33.549" N	89° 46' 56.725" E
	163	26° 40' 37.008" N	89° 46' 57.814" E
	164	26° 40' 41.762" N	89° 46' 58.646" E
	165	26° 40' 40.839" N	89° 47' 0.664" E
	166	26° 40' 37.851" N	89° 47' 0.847" E
	167	26° 40' 33.117" N	89° 47' 5.611" E
	168	26° 40' 27.360" N	89° 47' 9.919" E
	169	26° 39' 59.347" N	89° 47' 11.965" E
	170	26° 39' 57.764" N	89° 47' 13.791" E
	171	26° 39' 58.248" N	89° 47' 15.381" E
	172	26° 40' 0.590" N	89° 47' 14.291" E
	173	26° 40' 3.579" N	89° 47' 13.072" E
	174	26° 40' 3.232" N	89° 47' 11.055" E
	175	26° 40' 1.313" N	89° 47' 10.291" E
	176	26° 39' 59.347" N	89° 47' 11.965" E
	177	26° 41' 42.764" N	89° 46' 43.663" E
	178	26° 41' 37.371" N	89° 46' 49.129" E
	179	26° 41' 36.751" N	89° 46' 49.307" E
	180	26° 41' 39.010" N	89° 46' 51.035" E
	181	26° 41' 40.013" N	89° 46' 52.494" E
	182	26° 41' 37.679" N	89° 46' 53.155" E
	183	26° 41' 36.388" N	89° 46' 53.267" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	184	26° 41' 33.811" N	89° 46' 53.204" E
	185	26° 41' 31.478" N	89° 46' 53.865" E
	186	26° 41' 29.944" N	89° 46' 54.865" E
	187	26° 41' 27.834" N	89° 46' 56.807" E
	188	26° 41' 25.069" N	89° 46' 57.208" E
	189	26° 41' 16.839" N	89° 47' 4.035" E
	190	26° 41' 12.458" N	89° 47' 5.537" E
	191	26° 41' 4.904" N	89° 47' 6.283" E
	192	26° 41' 3.201" N	89° 47' 9.536" E
	193	26° 41' 1.894" N	89° 47' 10.224" E
	194	26° 41' 0.434" N	89° 47' 12.341" E
	195	26° 41' 0.339" N	89° 47' 17.218" E
	196	26° 41' 0.470" N	89° 47' 18.398" E
	197	26° 41' 0.014" N	89° 47' 20.111" E
	198	26° 40' 58.830" N	89° 47' 22.405" E
	199	26° 40' 58.018" N	89° 47' 22.503" E
	200	26° 40' 58.796" N	89° 47' 21.389" E
	201	26° 40' 58.399" N	89° 47' 15.353" E
	202	26° 40' 59.133" N	89° 47' 10.778" E
	203	26° 41' 1.119" N	89° 47' 8.100" E
	204	26° 41' 3.097" N	89° 47' 8.217" E
	205	26° 41' 3.002" N	89° 47' 4.318" E
	206	26° 41' 1.886" N	89° 47' 4.053" E
	207	26° 40' 57.897" N	89° 47' 3.669" E
	208	26° 40' 55.466" N	89° 47' 2.749" E
	209	26° 40' 47.204" N	89° 47' 3.361" E
	210	26° 40' 35.161" N	89° 47' 17.083" E
	211	26° 40' 31.634" N	89° 47' 19.437" E
	212	26° 40' 30.303" N	89° 47' 21.557" E
	213	26° 40' 28.944" N	89° 47' 25.111" E
	214	26° 40' 27.989" N	89° 47' 27.814" E
	215	26° 40' 28.397" N	89° 47' 28.160" E
	216	26° 40' 26.570" N	89° 47' 30.007" E
	217	26° 40' 25.056" N	89° 47' 31.282" E
	218	26° 40' 24.007" N	89° 47' 31.256" E
	219	26° 40' 21.480" N	89° 47' 34.036" E
	220	26° 40' 18.685" N	89° 47' 35.054" E
	221	26° 40' 15.421" N	89° 47' 34.527" E
	222	26° 40' 18.798" N	89° 47' 32.383" E
	223	26° 40' 25.095" N	89° 47' 26.796" E
	224	26° 40' 27.679" N	89° 47' 19.972" E
	225	26° 40' 33.200" N	89° 47' 14.510" E
	226	26° 40' 44.890" N	89° 47' 3.458" E
	227	26° 40' 45.523" N	89° 47' 1.603" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	228	26° 40' 48.926" N	89° 47' 1.011" E
	229	26° 40' 49.215" N	89° 47' 0.885" E
	230	26° 40' 52.249" N	89° 46' 59.556" E
	231	26° 40' 56.080" N	89° 46' 57.741" E
	232	26° 40' 59.593" N	89° 46' 56.104" E
	233	26° 41' 7.825" N	89° 46' 54.583" E
	234	26° 41' 15.377" N	89° 46' 53.187" E
	235	26° 41' 19.646" N	89° 46' 52.430" E
	236	26° 41' 23.282" N	89° 46' 51.083" E
	237	26° 41' 26.146" N	89° 46' 49.966" E
	238	26° 41' 25.890" N	89° 46' 49.568" E
	239	26° 41' 28.657" N	89° 46' 46.478" E
	240	26° 41' 31.887" N	89° 46' 46.126" E
	241	26° 41' 35.500" N	89° 46' 45.926" E
	242	26° 41' 40.467" N	89° 46' 42.459" E
	243	26° 41' 42.204" N	89° 46' 39.344" E
	244	26° 41' 40.025" N	89° 46' 38.717" E
	245	26° 41' 39.378" N	89° 46' 38.844" E
	246	26° 41' 39.282" N	89° 46' 37.120" E
	247	26° 41' 41.005" N	89° 46' 34.722" E
	248	26° 41' 41.816" N	89° 46' 33.290" E
	249	26° 41' 43.292" N	89° 46' 32.700" E
	250	26° 41' 44.266" N	89° 46' 32.792" E
	251	26° 41' 45.387" N	89° 46' 31.596" E
	252	26° 41' 48.393" N	89° 46' 29.570" E
	253	26° 41' 49.107" N	89° 46' 29.016" E
	254	26° 41' 48.229" N	89° 46' 34.467" E
	255	26° 41' 42.764" N	89° 46' 43.663" E
AD_KG_RD2_03	1	26° 41' 26.481" N	89° 46' 45.707" E
	2	26° 41' 25.414" N	89° 46' 47.547" E
	3	26° 41' 22.162" N	89° 46' 49.047" E
	4	26° 41' 19.296" N	89° 46' 50.556" E
	5	26° 41' 16.834" N	89° 46' 51.213" E
	6	26° 41' 16.384" N	89° 46' 50.292" E
	7	26° 41' 20.111" N	89° 46' 48.423" E
	8	26° 41' 23.249" N	89° 46' 46.203" E
	9	26° 41' 25.212" N	89° 46' 44.672" E
	10	26° 41' 25.632" N	89° 46' 42.960" E
	11	26° 41' 26.512" N	89° 46' 40.942" E
	12	26° 41' 25.733" N	89° 46' 39.620" E
	13	26° 41' 26.201" N	89° 46' 38.669" E
	14	26° 41' 29.032" N	89° 46' 37.073" E
	15	26° 41' 33.841" N	89° 46' 33.764" E
	16	26° 41' 38.895" N	89° 46' 34.337" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	17	26° 41' 38.411" N	89° 46' 35.520" E
	18	26° 41' 37.027" N	89° 46' 40.366" E
	19	26° 41' 35.310" N	89° 46' 42.477" E
	20	26° 41' 32.848" N	89° 46' 43.135" E
	21	26° 41' 30.904" N	89° 46' 43.662" E
	22	26° 41' 28.966" N	89° 46' 43.902" E
AD_KG_RD2_04	1	26° 40' 30.051" N	89° 46' 51.044" E
	2	26° 40' 29.115" N	89° 46' 51.021" E
	3	26° 40' 29.956" N	89° 46' 49.320" E
	4	26° 40' 28.588" N	89° 46' 47.993" E
	5	26° 40' 31.688" N	89° 46' 49.045" E
	6	26° 40' 38.076" N	89° 46' 51.481" E
	7	26° 40' 38.183" N	89° 46' 51.487" E
	8	26° 40' 43.794" N	89° 46' 51.774" E
	9	26° 40' 49.508" N	89° 46' 51.913" E
	10	26° 40' 57.079" N	89° 46' 49.228" E
	11	26° 41' 0.188" N	89° 46' 46.820" E
	12	26° 41' 2.780" N	89° 46' 44.813" E
	13	26° 41' 8.137" N	89° 46' 42.508" E
	14	26° 41' 10.191" N	89° 46' 41.625" E
	15	26° 41' 13.012" N	89° 46' 41.196" E
	16	26° 41' 15.192" N	89° 46' 40.560" E
	17	26° 41' 20.132" N	89° 46' 40.540" E
	18	26° 41' 21.593" N	89° 46' 40.321" E
	19	26° 41' 23.608" N	89° 46' 41.437" E
	20	26° 41' 22.790" N	89° 46' 43.714" E
	21	26° 41' 18.231" N	89° 46' 46.678" E
	22	26° 41' 11.949" N	89° 46' 50.088" E
	23	26° 41' 1.780" N	89° 46' 53.381" E
	24	26° 40' 57.308" N	89° 46' 54.719" E
	25	26° 40' 51.061" N	89° 46' 57.724" E
	26	26° 40' 42.112" N	89° 46' 53.920" E
	27	26° 40' 40.213" N	89° 46' 52.151" E
	28	26° 40' 35.211" N	89° 46' 50.882" E
	29	26° 40' 32.376" N	89° 46' 50.813" E
AD_KG_RD2_05	1	26° 39' 51.497" N	89° 46' 48.694" E
	2	26° 39' 51.013" N	89° 46' 48.262" E
	3	26° 39' 51.187" N	89° 46' 48.295" E
	4	26° 39' 59.174" N	89° 46' 48.488" E
	5	26° 40' 5.436" N	89° 46' 48.352" E
	6	26° 40' 11.352" N	89° 46' 48.169" E
	7	26° 40' 13.057" N	89° 46' 48.116" E
	8	26° 40' 16.028" N	89° 46' 47.891" E
	9	26° 40' 16.317" N	89° 46' 47.984" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	10	26° 40' 20.118" N	89° 46' 51.377" E
	11	26° 40' 16.998" N	89° 46' 54.027" E
	12	26° 40' 12.924" N	89° 46' 55.842" E
	13	26° 40' 10.040" N	89° 46' 54.118" E
	14	26° 40' 8.507" N	89° 46' 53.411" E
	15	26° 40' 7.157" N	89° 46' 52.135" E
	16	26° 40' 5.210" N	89° 46' 50.653" E
	17	26° 40' 3.505" N	89° 46' 49.942" E
	18	26° 39' 59.901" N	89° 46' 49.663" E
	19	26° 39' 57.839" N	89° 46' 49.613" E
	20	26° 39' 56.629" N	89° 46' 49.966" E
	21	26° 39' 56.006" N	89° 46' 51.134" E
	22	26° 39' 54.374" N	89° 46' 51.049" E
AD_KG_RD2_06	1	26° 39' 21.150" N	89° 46' 53.342" E
	2	26° 39' 18.648" N	89° 46' 53.855" E
	3	26° 39' 18.945" N	89° 46' 51.853" E
	4	26° 39' 21.189" N	89° 46' 49.268" E
	5	26° 39' 21.435" N	89° 46' 49.166" E
	6	26° 39' 24.172" N	89° 46' 48.715" E
	7	26° 39' 28.542" N	89° 46' 47.995" E
	8	26° 39' 25.533" N	89° 46' 48.952" E
	9	26° 39' 43.817" N	89° 46' 50.065" E
	10	26° 39' 39.208" N	89° 46' 52.823" E
	11	26° 39' 31.699" N	89° 46' 54.458" E
	12	26° 39' 30.980" N	89° 46' 56.067" E
	13	26° 39' 29.841" N	89° 46' 57.187" E
	14	26° 39' 26.196" N	89° 46' 59.011" E
	15	26° 39' 24.028" N	89° 47' 0.011" E
	16	26° 39' 22.319" N	89° 46' 59.491" E
	17	26° 39' 21.154" N	89° 46' 57.550" E
	18	26° 39' 25.318" N	89° 46' 55.547" E
	19	26° 39' 22.861" N	89° 46' 53.766" E
	20	26° 39' 26.220" N	89° 46' 53.369" E
	21	26° 39' 28.982" N	89° 46' 52.766" E
	22	26° 39' 31.684" N	89° 46' 50.823" E
	23	26° 39' 35.141" N	89° 46' 49.855" E
	24	26° 39' 40.474" N	89° 46' 49.602" E
	25	26° 39' 40.332" N	89° 46' 48.068" E
	26	26° 39' 36.379" N	89° 46' 48.068" E
	27	26° 39' 29.540" N	89° 46' 47.811" E
	28	26° 39' 36.970" N	89° 46' 46.227" E
	29	26° 39' 40.269" N	89° 46' 46.579" E
	30	26° 39' 44.207" N	89° 46' 47.000" E
	31	26° 39' 46.175" N	89° 46' 47.365" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	32	26° 39' 45.755" N	89° 46' 47.626" E
AD_KG_RD2_07	1	26° 39' 37.362" N	89° 47' 8.082" E
	2	26° 39' 34.042" N	89° 47' 10.871" E
	3	26° 39' 29.610" N	89° 47' 13.346" E
	4	26° 39' 25.291" N	89° 47' 14.484" E
	5	26° 39' 19.765" N	89° 47' 15.785" E
	6	26° 39' 14.906" N	89° 47' 18.153" E
	7	26° 39' 11.619" N	89° 47' 19.221" E
	8	26° 39' 9.895" N	89° 47' 17.383" E
	9	26° 39' 5.535" N	89° 47' 18.308" E
	10	26° 39' 1.083" N	89° 47' 21.834" E
	11	26° 38' 52.420" N	89° 47' 25.353" E
	12	26° 38' 49.342" N	89° 47' 24.513" E
	13	26° 38' 47.335" N	89° 47' 21.691" E
	14	26° 38' 45.128" N	89° 47' 20.299" E
	15	26° 38' 47.701" N	89° 47' 20.552" E
	16	26° 38' 48.232" N	89° 47' 19.800" E
	17	26° 38' 49.027" N	89° 47' 18.672" E
	18	26° 38' 51.890" N	89° 47' 17.307" E
	19	26° 38' 57.141" N	89° 47' 16.861" E
	20	26° 38' 58.794" N	89° 47' 15.849" E
	21	26° 39' 3.396" N	89° 47' 13.474" E
	22	26° 39' 8.755" N	89° 47' 11.883" E
	23	26° 39' 9.348" N	89° 47' 12.803" E
	24	26° 39' 9.909" N	89° 47' 9.998" E
	25	26° 39' 7.769" N	89° 47' 9.563" E
	26	26° 39' 6.677" N	89° 47' 8.293" E
	27	26° 39' 2.386" N	89° 47' 7.998" E
	28	26° 38' 58.158" N	89° 47' 8.852" E
	29	26° 38' 53.908" N	89° 47' 10.852" E
	30	26° 38' 48.879" N	89° 47' 13.121" E
	31	26° 38' 46.417" N	89° 47' 15.931" E
	32	26° 38' 44.529" N	89° 47' 15.789" E
	33	26° 38' 43.405" N	89° 47' 11.745" E
	34	26° 38' 50.504" N	89° 47' 4.744" E
	35	26° 38' 52.212" N	89° 47' 3.464" E
	36	26° 38' 55.844" N	89° 47' 3.813" E
	37	26° 38' 56.020" N	89° 47' 3.830" E
	38	26° 39' 3.636" N	89° 47' 0.114" E
	39	26° 39' 4.816" N	89° 47' 2.414" E
	40	26° 39' 6.214" N	89° 47' 5.604" E
	41	26° 39' 11.349" N	89° 47' 6.685" E
	42	26° 39' 16.121" N	89° 47' 4.410" E
	43	26° 39' 17.107" N	89° 47' 2.330" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	44	26° 39' 13.172" N	89° 47' 1.373" E
	45	26° 39' 11.367" N	89° 47' 1.425" E
	46	26° 39' 8.517" N	89° 47' 2.121" E
	47	26° 39' 6.112" N	89° 47' 2.063" E
	48	26° 39' 4.794" N	89° 46' 59.548" E
	49	26° 39' 5.309" N	89° 46' 59.297" E
	50	26° 39' 11.268" N	89° 46' 55.018" E
	51	26° 39' 17.217" N	89° 46' 51.220" E
	52	26° 39' 17.092" N	89° 46' 54.295" E
	53	26° 39' 13.743" N	89° 46' 57.387" E
	54	26° 39' 14.702" N	89° 46' 57.872" E
	55	26° 39' 15.539" N	89° 46' 59.861" E
	56	26° 39' 16.818" N	89° 46' 59.549" E
	57	26° 39' 20.255" N	89° 46' 59.537" E
	58	26° 39' 21.693" N	89° 47' 0.719" E
	59	26° 39' 25.633" N	89° 47' 1.389" E
	60	26° 39' 32.304" N	89° 46' 58.682" E
	61	26° 39' 35.909" N	89° 46' 59.082" E
	62	26° 39' 35.462" N	89° 46' 57.562" E
	63	26° 39' 32.782" N	89° 46' 56.206" E
	64	26° 39' 37.453" N	89° 46' 54.694" E
	65	26° 39' 43.079" N	89° 46' 52.630" E
	66	26° 39' 45.664" N	89° 46' 52.310" E
	67	26° 39' 49.423" N	89° 46' 53.454" E
	68	26° 39' 51.137" N	89° 46' 53.687" E
	69	26° 39' 53.723" N	89° 46' 53.271" E
	70	26° 39' 56.526" N	89° 46' 54.965" E
	71	26° 39' 54.186" N	89° 46' 55.961" E
	72	26° 39' 50.944" N	89° 46' 59.134" E
	73	26° 39' 45.686" N	89° 46' 59.963" E
	74	26° 39' 39.857" N	89° 47' 3.552" E
AD_KG_RD2_08	1	26° 38' 44.388" N	89° 47' 5.457" E
	2	26° 38' 41.639" N	89° 47' 5.390" E
	3	26° 38' 39.113" N	89° 47' 7.146" E
	4	26° 38' 37.436" N	89° 47' 9.400" E
	5	26° 38' 37.316" N	89° 47' 11.119" E
	6	26° 38' 38.233" N	89° 47' 12.576" E
	7	26° 38' 35.648" N	89° 47' 12.895" E
	8	26° 38' 34.904" N	89° 47' 12.813" E
	9	26° 38' 33.992" N	89° 47' 14.558" E
	10	26° 38' 29.986" N	89° 47' 15.034" E
	11	26° 38' 28.714" N	89° 47' 14.143" E
	12	26° 38' 32.351" N	89° 47' 10.138" E
	13	26° 38' 31.860" N	89° 47' 8.882" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	14	26° 38' 33.285" N	89° 47' 6.335" E
	15	26° 38' 34.786" N	89° 47' 4.267" E
	16	26° 38' 37.654" N	89° 47' 2.615" E
	17	26° 38' 40.400" N	89° 47' 2.873" E
	18	26° 38' 42.743" N	89° 47' 1.687" E
	19	26° 38' 42.087" N	89° 47' 0.778" E
	20	26° 38' 45.433" N	89° 47' 2.812" E
	21	26° 38' 47.751" N	89° 47' 3.035" E
	22	26° 38' 46.463" N	89° 47' 4.838" E
AD_KG_RD2_09	1	26° 38' 5.061" N	89° 47' 19.951" E
	2	26° 38' 3.077" N	89° 47' 22.533" E
	3	26° 38' 4.869" N	89° 47' 24.250" E
	4	26° 38' 2.329" N	89° 47' 27.774" E
	5	26° 37' 58.639" N	89° 47' 29.716" E
	6	26° 37' 54.465" N	89° 47' 28.898" E
	7	26° 37' 52.150" N	89° 47' 26.451" E
	8	26° 37' 52.908" N	89° 47' 26.110" E
	9	26° 37' 56.272" N	89° 47' 24.399" E
	10	26° 37' 58.268" N	89° 47' 21.220" E
	11	26° 37' 59.933" N	89° 47' 18.512" E
	12	26° 38' 1.354" N	89° 47' 17.231" E
	13	26° 38' 4.375" N	89° 47' 16.587" E
	14	26° 38' 7.080" N	89° 47' 15.577" E
	15	26° 38' 11.268" N	89° 47' 15.679" E
	16	26° 38' 13.385" N	89° 47' 17.284" E
	17	26° 38' 17.678" N	89° 47' 17.508" E
	18	26° 38' 19.951" N	89° 47' 16.607" E
	19	26° 38' 23.084" N	89° 47' 15.727" E
	20	26° 38' 20.021" N	89° 47' 18.521" E
	21	26° 38' 15.707" N	89° 47' 19.373" E
	22	26° 38' 11.307" N	89° 47' 19.147" E
	23	26° 38' 7.531" N	89° 47' 20.011" E
AD_KG_RD2_10A	1	26° 37' 25.324" N	89° 47' 46.592" E
	2	26° 37' 22.910" N	89° 47' 43.665" E
	3	26° 37' 24.523" N	89° 47' 43.585" E
	4	26° 37' 26.673" N	89° 47' 43.517" E
	5	26° 37' 27.434" N	89° 47' 43.058" E
	6	26° 37' 28.319" N	89° 47' 41.765" E
	7	26° 37' 30.950" N	89° 47' 39.080" E
	8	26° 37' 33.673" N	89° 47' 37.463" E
	9	26° 37' 31.870" N	89° 47' 40.554" E
	10	26° 37' 30.943" N	89° 47' 44.532" E
	11	26° 37' 29.768" N	89° 47' 44.549" E
	12	26° 37' 27.571" N	89° 47' 47.005" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
AD_KG_RD2_11	1	26° 37' 56.585" N	89° 48' 10.836" E
	2	26° 37' 48.111" N	89° 48' 23.459" E
	3	26° 37' 45.512" N	89° 48' 23.396" E
	4	26° 37' 45.932" N	89° 48' 23.224" E
	5	26° 37' 48.516" N	89° 48' 22.081" E
	6	26° 37' 50.802" N	89° 48' 15.968" E
	7	26° 37' 48.914" N	89° 48' 15.838" E
	8	26° 37' 45.956" N	89° 48' 15.479" E
	9	26° 37' 43.497" N	89° 48' 15.993" E
	10	26° 37' 41.510" N	89° 48' 18.669" E
	11	26° 37' 40.944" N	89° 48' 21.237" E
	12	26° 37' 40.614" N	89° 48' 23.248" E
	13	26° 37' 38.193" N	89° 48' 23.115" E
	14	26° 37' 34.540" N	89° 48' 22.914" E
	15	26° 37' 28.777" N	89° 48' 26.577" E
	16	26° 37' 27.554" N	89° 48' 27.473" E
	17	26° 37' 29.003" N	89° 48' 23.024" E
	18	26° 37' 30.694" N	89° 48' 20.101" E
	19	26° 37' 35.608" N	89° 48' 14.962" E
	20	26° 37' 36.218" N	89° 48' 14.852" E
	21	26° 37' 36.682" N	89° 48' 15.109" E
	22	26° 37' 37.324" N	89° 48' 15.268" E
	23	26° 37' 39.405" N	89° 48' 14.315" E
	24	26° 37' 40.902" N	89° 48' 12.318" E
	25	26° 37' 47.457" N	89° 48' 11.140" E
	26	26° 37' 49.870" N	89° 48' 10.816" E
	27	26° 37' 55.380" N	89° 48' 10.281" E
	28	26° 37' 59.584" N	89° 48' 6.272" E
	29	26° 38' 3.710" N	89° 47' 59.697" E
	30	26° 38' 6.114" N	89° 47' 57.634" E
	31	26° 38' 11.073" N	89° 47' 54.599" E
	32	26° 38' 17.993" N	89° 47' 52.450" E
	33	26° 38' 20.397" N	89° 47' 52.844" E
	34	26° 38' 24.161" N	89° 47' 53.461" E
	35	26° 38' 24.947" N	89° 47' 52.113" E
	36	26° 38' 30.204" N	89° 47' 46.981" E
	37	26° 38' 37.700" N	89° 47' 42.741" E
	38	26° 38' 46.213" N	89° 47' 41.394" E
	39	26° 38' 55.688" N	89° 47' 40.310" E
	40	26° 38' 58.592" N	89° 47' 40.179" E
	41	26° 38' 57.962" N	89° 47' 40.482" E
	42	26° 38' 49.581" N	89° 47' 41.979" E
	43	26° 38' 42.568" N	89° 47' 44.578" E
	44	26° 38' 30.735" N	89° 47' 50.140" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	45	26° 38' 21.150" N	89° 47' 55.163" E
	46	26° 38' 10.340" N	89° 48' 2.865" E
	47	26° 38' 1.117" N	89° 48' 8.210" E
AD_KG_RD2_13	1	26° 37' 2.309" N	89° 47' 48.067" E
	2	26° 36' 59.415" N	89° 47' 47.757" E
	3	26° 37' 0.098" N	89° 47' 46.008" E
	4	26° 36' 55.279" N	89° 47' 50.442" E
	5	26° 36' 42.489" N	89° 47' 51.851" E
	6	26° 36' 27.512" N	89° 47' 46.467" E
	7	26° 36' 30.266" N	89° 47' 44.096" E
	8	26° 36' 37.532" N	89° 47' 41.692" E
	9	26° 36' 38.248" N	89° 47' 40.352" E
	10	26° 36' 40.315" N	89° 47' 39.877" E
	11	26° 36' 41.715" N	89° 47' 38.611" E
	12	26° 36' 43.117" N	89° 47' 37.192" E
	13	26° 36' 45.820" N	89° 47' 36.110" E
	14	26° 36' 49.533" N	89° 47' 34.976" E
	15	26° 36' 50.555" N	89° 47' 34.852" E
	16	26° 36' 56.240" N	89° 47' 34.464" E
	17	26° 37' 0.356" N	89° 47' 34.789" E
	18	26° 37' 0.992" N	89° 47' 35.235" E
	19	26° 37' 2.161" N	89° 47' 39.880" E
	20	26° 37' 2.375" N	89° 47' 39.224" E
	21	26° 37' 4.691" N	89° 47' 36.173" E
	22	26° 37' 7.915" N	89° 47' 36.132" E
	23	26° 37' 11.948" N	89° 47' 38.621" E
	24	26° 37' 17.554" N	89° 47' 43.060" E
	25	26° 37' 23.035" N	89° 47' 48.452" E
	26	26° 37' 16.777" N	89° 47' 44.356" E
	27	26° 37' 12.634" N	89° 47' 41.984" E
	28	26° 37' 8.232" N	89° 47' 41.877" E
	29	26° 37' 5.589" N	89° 47' 45.159" E
AD_KG_RD2_14_11	1	26° 35' 39.341" N	89° 48' 27.917" E
	2	26° 35' 38.367" N	89° 48' 25.025" E
	3	26° 35' 43.662" N	89° 48' 22.382" E
	4	26° 35' 51.647" N	89° 48' 22.768" E
	5	26° 35' 57.620" N	89° 48' 24.922" E
	6	26° 36' 3.063" N	89° 48' 27.827" E
	7	26° 36' 7.287" N	89° 48' 27.165" E
	8	26° 36' 11.795" N	89° 48' 25.172" E
	9	26° 36' 15.492" N	89° 48' 25.072" E
	10	26° 36' 20.267" N	89° 48' 27.005" E
	11	26° 36' 25.878" N	89° 48' 30.105" E
	12	26° 36' 31.879" N	89° 48' 30.826" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	13	26° 36' 39.380" N	89° 48' 33.973" E
	14	26° 36' 45.399" N	89° 48' 38.136" E
	15	26° 36' 47.308" N	89° 48' 41.295" E
	16	26° 36' 52.868" N	89° 48' 40.428" E
	17	26° 37' 2.926" N	89° 48' 33.790" E
	18	26° 36' 59.600" N	89° 48' 39.015" E
	19	26° 36' 59.387" N	89° 48' 39.695" E
	20	26° 36' 56.945" N	89° 48' 39.875" E
	21	26° 36' 50.718" N	89° 48' 42.620" E
	22	26° 36' 41.417" N	89° 48' 42.392" E
	23	26° 36' 35.918" N	89° 48' 42.394" E
	24	26° 36' 27.253" N	89° 48' 42.087" E
	25	26° 36' 24.635" N	89° 48' 43.214" E
	26	26° 36' 21.517" N	89° 48' 42.045" E
	27	26° 36' 18.699" N	89° 48' 38.057" E
	28	26° 36' 14.953" N	89° 48' 35.001" E
	29	26° 36' 8.471" N	89° 48' 32.452" E
	30	26° 36' 3.650" N	89° 48' 32.908" E
	31	26° 35' 59.708" N	89° 48' 32.334" E
	32	26° 35' 53.786" N	89° 48' 36.723" E
	33	26° 35' 51.552" N	89° 48' 36.245" E
	34	26° 35' 50.294" N	89° 48' 34.685" E
	35	26° 35' 48.340" N	89° 48' 30.961" E
	36	26° 37' 1.321" N	89° 48' 39.553" E
	37	26° 37' 3.396" N	89° 48' 36.096" E
	38	26° 37' 10.070" N	89° 48' 29.088" E
	39	26° 37' 11.849" N	89° 48' 27.221" E
	40	26° 37' 12.874" N	89° 48' 26.145" E
	41	26° 37' 20.491" N	89° 48' 19.016" E
	42	26° 37' 21.702" N	89° 48' 18.674" E
	43	26° 37' 26.177" N	89° 48' 17.408" E
	44	26° 37' 31.824" N	89° 48' 15.810" E
	45	26° 37' 30.992" N	89° 48' 17.612" E
	46	26° 37' 28.214" N	89° 48' 19.896" E
	47	26° 37' 26.875" N	89° 48' 22.388" E
	48	26° 37' 26.432" N	89° 48' 26.565" E
	49	26° 37' 24.075" N	89° 48' 30.021" E
	50	26° 37' 20.606" N	89° 48' 32.563" E
	51	26° 37' 12.328" N	89° 48' 38.527" E
	52	26° 37' 4.784" N	89° 48' 39.298" E
AD_KG_RD2_15	1	26° 35' 27.398" N	89° 48' 11.433" E
	2	26° 35' 24.056" N	89° 48' 13.569" E
	3	26° 35' 22.366" N	89° 48' 14.048" E
	4	26° 35' 20.292" N	89° 48' 13.278" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	5	26° 35' 19.580" N	89° 48' 14.504" E
	6	26° 35' 18.374" N	89° 48' 14.665" E
	7	26° 35' 16.744" N	89° 48' 14.530" E
	8	26° 35' 17.711" N	89° 48' 13.407" E
	9	26° 35' 19.303" N	89° 48' 11.151" E
	10	26° 35' 21.895" N	89° 48' 10.450" E
	11	26° 35' 23.732" N	89° 48' 10.397" E
	12	26° 35' 24.969" N	89° 48' 9.080" E
	13	26° 35' 24.571" N	89° 48' 8.382" E
	14	26° 35' 23.549" N	89° 48' 7.898" E
	15	26° 35' 21.471" N	89° 48' 8.689" E
	16	26° 35' 19.816" N	89° 48' 8.745" E
	17	26° 35' 19.860" N	89° 48' 8.845" E
	18	26° 35' 19.191" N	89° 48' 9.118" E
	19	26° 35' 16.591" N	89° 48' 10.250" E
	20	26° 35' 14.511" N	89° 48' 12.230" E
	21	26° 35' 9.322" N	89° 48' 13.745" E
	22	26° 35' 8.164" N	89° 48' 12.673" E
	23	26° 35' 7.314" N	89° 48' 12.175" E
	24	26° 35' 4.732" N	89° 48' 12.351" E
	25	26° 35' 2.426" N	89° 48' 14.923" E
	26	26° 34' 58.225" N	89° 48' 17.173" E
	27	26° 34' 57.981" N	89° 48' 16.965" E
	28	26° 34' 56.237" N	89° 48' 18.237" E
	29	26° 34' 54.272" N	89° 48' 19.862" E
	30	26° 34' 52.313" N	89° 48' 21.128" E
	31	26° 34' 50.886" N	89° 48' 22.647" E
	32	26° 34' 49.040" N	89° 48' 23.677" E
	33	26° 34' 49.959" N	89° 48' 26.089" E
	34	26° 34' 51.588" N	89° 48' 26.828" E
	35	26° 34' 47.339" N	89° 48' 27.459" E
	36	26° 34' 41.348" N	89° 48' 27.924" E
	37	26° 34' 40.404" N	89° 48' 23.543" E
	38	26° 34' 36.421" N	89° 48' 23.097" E
	39	26° 34' 38.648" N	89° 48' 22.465" E
	40	26° 34' 42.094" N	89° 48' 20.880" E
	41	26° 34' 44.995" N	89° 48' 19.149" E
	42	26° 34' 49.163" N	89° 48' 17.855" E
	43	26° 34' 48.337" N	89° 48' 18.892" E
	44	26° 34' 44.125" N	89° 48' 23.301" E
	45	26° 34' 46.544" N	89° 48' 24.930" E
	46	26° 34' 49.847" N	89° 48' 20.685" E
	47	26° 34' 51.835" N	89° 48' 18.130" E
	48	26° 34' 52.780" N	89° 48' 16.745" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	49	26° 34' 55.049" N	89° 48' 16.055" E
	50	26° 34' 57.998" N	89° 48' 12.978" E
	51	26° 35' 4.943" N	89° 48' 10.291" E
	52	26° 35' 7.938" N	89° 48' 8.992" E
	53	26° 35' 10.417" N	89° 48' 7.918" E
	54	26° 35' 13.920" N	89° 48' 6.339" E
	55	26° 35' 19.583" N	89° 48' 5.772" E
	56	26° 35' 25.145" N	89° 48' 5.642" E
	57	26° 35' 32.091" N	89° 48' 4.041" E
	58	26° 35' 37.459" N	89° 48' 2.208" E
	59	26° 35' 42.618" N	89° 48' 0.296" E
	60	26° 35' 46.000" N	89° 47' 58.388" E
	61	26° 35' 51.878" N	89° 47' 54.209" E
	62	26° 35' 55.855" N	89° 47' 52.178" E
	63	26° 35' 58.544" N	89° 47' 52.772" E
	64	26° 36' 0.209" N	89° 47' 52.289" E
	65	26° 36' 6.594" N	89° 47' 50.436" E
	66	26° 36' 8.206" N	89° 47' 47.258" E
	67	26° 36' 9.273" N	89° 47' 45.156" E
	68	26° 36' 9.815" N	89° 47' 45.324" E
	69	26° 36' 14.670" N	89° 47' 45.115" E
	70	26° 36' 19.035" N	89° 47' 45.599" E
	71	26° 36' 18.163" N	89° 47' 47.586" E
	72	26° 36' 15.177" N	89° 47' 48.661" E
	73	26° 36' 14.279" N	89° 47' 51.588" E
	74	26° 36' 11.382" N	89° 47' 53.878" E
	75	26° 36' 6.120" N	89° 47' 59.247" E
	76	26° 36' 3.438" N	89° 47' 59.062" E
	77	26° 35' 58.770" N	89° 47' 56.080" E
	78	26° 35' 56.579" N	89° 47' 52.801" E
	79	26° 35' 50.904" N	89° 47' 57.323" E
	80	26° 35' 44.182" N	89° 48' 0.524" E
	81	26° 35' 41.826" N	89° 48' 1.461" E
	82	26° 35' 38.571" N	89° 48' 2.681" E
	83	26° 35' 35.583" N	89° 48' 4.291" E
	84	26° 35' 32.300" N	89° 48' 6.888" E
	85	26° 35' 29.768" N	89° 48' 9.808" E
AD_KG_RD2_16	1	26° 36' 19.948" N	89° 48' 44.988" E
	2	26° 36' 14.098" N	89° 48' 46.208" E
	3	26° 36' 9.729" N	89° 48' 44.592" E
	4	26° 36' 6.069" N	89° 48' 44.003" E
	5	26° 35' 57.791" N	89° 48' 40.333" E
	6	26° 35' 56.609" N	89° 48' 39.698" E
	7	26° 35' 58.509" N	89° 48' 38.540" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	8	26° 36' 2.672" N	89° 48' 36.634" E
	9	26° 36' 2.963" N	89° 48' 35.680" E
	10	26° 36' 3.775" N	89° 48' 36.297" E
	11	26° 36' 5.300" N	89° 48' 34.117" E
	12	26° 36' 10.708" N	89° 48' 34.441" E
	13	26° 36' 14.694" N	89° 48' 37.119" E
	14	26° 36' 18.257" N	89° 48' 39.501" E
	15	26° 36' 18.663" N	89° 48' 40.658" E
	16	26° 36' 17.030" N	89° 48' 40.947" E
	17	26° 36' 18.376" N	89° 48' 42.174" E
	18	26° 36' 18.894" N	89° 48' 43.143" E
AD_KG_RD2_17	1	26° 35' 39.057" N	89° 48' 31.373" E
	2	26° 35' 39.008" N	89° 48' 29.460" E
	3	26° 35' 43.841" N	89° 48' 30.671" E
	4	26° 35' 46.620" N	89° 48' 31.366" E
	5	26° 35' 49.762" N	89° 48' 35.476" E
	6	26° 35' 46.949" N	89° 48' 36.483" E
	7	26° 35' 42.654" N	89° 48' 36.378" E
	8	26° 35' 40.971" N	89° 48' 34.544" E
AD_KG_RD2_18	1	26° 35' 12.874" N	89° 48' 29.938" E
	2	26° 35' 8.988" N	89° 48' 25.423" E
	3	26° 35' 10.613" N	89° 48' 24.745" E
	4	26° 35' 11.544" N	89° 48' 23.768" E
	5	26° 35' 13.875" N	89° 48' 22.382" E
	6	26° 35' 15.873" N	89° 48' 21.284" E
	7	26° 35' 19.419" N	89° 48' 20.127" E
	8	26° 35' 24.665" N	89° 48' 19.969" E
	9	26° 35' 26.782" N	89° 48' 21.550" E
	10	26° 35' 29.243" N	89° 48' 23.139" E
	11	26° 35' 31.904" N	89° 48' 23.300" E
	12	26° 35' 36.358" N	89° 48' 24.078" E
	13	26° 35' 37.311" N	89° 48' 27.991" E
	14	26° 35' 38.000" N	89° 48' 34.890" E
	15	26° 35' 39.676" N	89° 48' 37.072" E
	16	26° 35' 42.105" N	89° 48' 38.699" E
	17	26° 35' 42.555" N	89° 48' 39.475" E
	18	26° 35' 39.504" N	89° 48' 39.652" E
	19	26° 35' 36.433" N	89° 48' 39.660" E
	20	26° 35' 34.174" N	89° 48' 39.667" E
	21	26° 35' 28.632" N	89° 48' 38.963" E
	22	26° 35' 23.124" N	89° 48' 38.753" E
	23	26° 35' 20.175" N	89° 48' 38.730" E
	24	26° 35' 18.551" N	89° 48' 38.767" E
	25	26° 35' 17.289" N	89° 48' 34.826" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
AD_KG_RD2_19_21_15	1	26° 34' 59.530" N	89° 48' 44.220" E
	2	26° 34' 53.389" N	89° 48' 48.631" E
	3	26° 34' 52.543" N	89° 48' 49.063" E
	4	26° 34' 54.937" N	89° 48' 46.108" E
	5	26° 34' 54.755" N	89° 48' 44.431" E
	6	26° 34' 53.719" N	89° 48' 42.494" E
	7	26° 34' 52.356" N	89° 48' 40.788" E
	8	26° 34' 42.030" N	89° 48' 40.236" E
	9	26° 34' 41.731" N	89° 48' 40.289" E
	10	26° 34' 37.329" N	89° 48' 40.182" E
	11	26° 34' 33.232" N	89° 48' 40.918" E
	12	26° 34' 31.178" N	89° 48' 41.585" E
	13	26° 34' 30.543" N	89° 48' 37.349" E
	14	26° 34' 29.617" N	89° 48' 37.119" E
	15	26° 34' 28.877" N	89° 48' 36.260" E
	16	26° 34' 26.707" N	89° 48' 34.755" E
	17	26° 34' 25.165" N	89° 48' 36.246" E
	18	26° 34' 20.408" N	89° 48' 36.895" E
	19	26° 34' 19.191" N	89° 48' 35.871" E
	20	26° 34' 16.853" N	89° 48' 35.890" E
	21	26° 34' 14.714" N	89° 48' 36.297" E
	22	26° 34' 13.275" N	89° 48' 36.032" E
	23	26° 34' 11.012" N	89° 48' 35.748" E
	24	26° 34' 9.382" N	89° 48' 34.714" E
	25	26° 34' 9.124" N	89° 48' 33.867" E
	26	26° 34' 10.189" N	89° 48' 32.134" E
	27	26° 34' 11.449" N	89° 48' 31.018" E
	28	26° 34' 13.049" N	89° 48' 30.063" E
	29	26° 34' 15.423" N	89° 48' 28.209" E
	30	26° 34' 18.114" N	89° 48' 27.740" E
	31	26° 34' 20.728" N	89° 48' 27.651" E
	32	26° 34' 21.340" N	89° 48' 27.446" E
	33	26° 34' 29.036" N	89° 48' 27.633" E
	34	26° 34' 31.186" N	89° 48' 26.029" E
	35	26° 34' 33.806" N	89° 48' 24.074" E
	36	26° 34' 34.743" N	89° 48' 24.705" E
	37	26° 34' 40.692" N	89° 48' 29.820" E
	38	26° 34' 45.095" N	89° 48' 29.378" E
	39	26° 34' 51.484" N	89° 48' 28.961" E
	40	26° 34' 52.774" N	89° 48' 28.708" E
	41	26° 34' 55.605" N	89° 48' 26.667" E
	42	26° 34' 59.465" N	89° 48' 26.149" E
	43	26° 34' 59.925" N	89° 48' 27.017" E
	44	26° 35' 2.522" N	89° 48' 26.460" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	45	26° 35' 4.329" N	89° 48' 27.460" E
	46	26° 35' 7.620" N	89° 48' 27.495" E
	47	26° 35' 11.352" N	89° 48' 30.033" E
	48	26° 35' 13.363" N	89° 48' 32.940" E
	49	26° 35' 14.779" N	89° 48' 37.535" E
	50	26° 35' 15.666" N	89° 48' 38.839" E
	51	26° 35' 11.916" N	89° 48' 39.129" E
	52	26° 35' 11.399" N	89° 48' 39.169" E
	53	26° 35' 5.488" N	89° 48' 39.553" E
AD_KG_RD2_20	1	26° 34' 26.581" N	89° 48' 56.765" E
	2	26° 34' 26.690" N	89° 48' 45.776" E
	3	26° 34' 28.997" N	89° 48' 43.204" E
	4	26° 34' 31.467" N	89° 48' 43.264" E
	5	26° 34' 36.745" N	89° 48' 42.557" E
	6	26° 34' 44.688" N	89° 48' 42.871" E
	7	26° 34' 39.869" N	89° 48' 47.532" E
	8	26° 34' 34.203" N	89° 48' 51.575" E
	9	26° 34' 30.524" N	89° 48' 52.918" E
	10	26° 34' 27.628" N	89° 48' 58.104" E
AD_KG_RD2_21	1	26° 34' 24.723" N	89° 48' 45.751" E
	2	26° 34' 23.772" N	89° 48' 47.964" E
	3	26° 34' 24.886" N	89° 48' 48.384" E
	4	26° 34' 24.848" N	89° 48' 50.776" E
	5	26° 34' 24.985" N	89° 48' 50.513" E
	6	26° 34' 24.807" N	89° 48' 53.412" E
	7	26° 34' 24.669" N	89° 48' 55.643" E
	8	26° 34' 22.763" N	89° 49' 1.343" E
	9	26° 34' 19.651" N	89° 49' 1.330" E
	10	26° 34' 13.999" N	89° 49' 3.310" E
	11	26° 34' 11.881" N	89° 49' 1.303" E
	12	26° 34' 9.449" N	89° 48' 59.332" E
	13	26° 34' 7.846" N	89° 48' 58.934" E
	14	26° 34' 9.710" N	89° 48' 57.643" E
	15	26° 34' 13.345" N	89° 48' 53.747" E
	16	26° 34' 11.463" N	89° 48' 53.551" E
	17	26° 34' 11.083" N	89° 48' 51.033" E
	18	26° 34' 14.336" N	89° 48' 44.064" E
	19	26° 34' 11.597" N	89° 48' 40.498" E
	20	26° 34' 9.928" N	89° 48' 38.325" E
	21	26° 34' 11.043" N	89° 48' 37.660" E
	22	26° 34' 13.514" N	89° 48' 37.873" E
	23	26° 34' 15.850" N	89° 48' 37.930" E
	24	26° 34' 16.133" N	89° 48' 37.555" E
	25	26° 34' 16.697" N	89° 48' 36.804" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	26	26° 34' 17.728" N	89° 48' 36.829" E
	27	26° 34' 19.167" N	89° 48' 37.094" E
	28	26° 34' 19.698" N	89° 48' 38.024" E
	29	26° 34' 20.802" N	89° 48' 37.822" E
	30	26° 34' 22.045" N	89° 48' 37.546" E
	31	26° 34' 22.665" N	89° 48' 37.485" E
	32	26° 34' 23.774" N	89° 48' 37.053" E
	33	26° 34' 27.068" N	89° 48' 37.363" E
	34	26° 34' 28.637" N	89° 48' 37.377" E
	35	26° 34' 28.859" N	89° 48' 37.609" E
	36	26° 34' 28.819" N	89° 48' 39.639" E
	37	26° 34' 26.627" N	89° 48' 41.855" E
AD_KG_RD2_23	1	26° 34' 7.579" N	89° 48' 28.756" E
	2	26° 34' 6.429" N	89° 48' 29.685" E
	3	26° 34' 8.918" N	89° 48' 30.344" E
	4	26° 34' 8.093" N	89° 48' 32.984" E
	5	26° 34' 7.223" N	89° 48' 33.268" E
	6	26° 34' 6.791" N	89° 48' 34.251" E
	7	26° 34' 6.025" N	89° 48' 34.768" E
	8	26° 33' 59.564" N	89° 48' 35.033" E
	9	26° 33' 56.757" N	89° 48' 37.131" E
	10	26° 33' 51.188" N	89° 48' 37.148" E
	11	26° 33' 49.889" N	89° 48' 36.734" E
	12	26° 33' 47.707" N	89° 48' 34.741" E
	13	26° 33' 45.774" N	89° 48' 31.059" E
	14	26° 33' 44.569" N	89° 48' 31.100" E
	15	26° 33' 41.825" N	89° 48' 30.803" E
	16	26° 33' 41.144" N	89° 48' 30.481" E
	17	26° 33' 40.133" N	89° 48' 29.462" E
	18	26° 33' 35.890" N	89° 48' 28.441" E
	19	26° 33' 33.204" N	89° 48' 28.682" E
	20	26° 33' 32.016" N	89° 48' 29.647" E
	21	26° 33' 32.188" N	89° 48' 31.409" E
	22	26° 33' 31.678" N	89° 48' 32.849" E
	23	26° 33' 29.580" N	89° 48' 34.633" E
	24	26° 33' 27.082" N	89° 48' 35.795" E
	25	26° 33' 24.876" N	89° 48' 36.124" E
	26	26° 33' 23.098" N	89° 48' 35.622" E
	27	26° 33' 20.532" N	89° 48' 33.266" E
	28	26° 33' 18.798" N	89° 48' 30.548" E
	29	26° 33' 18.226" N	89° 48' 28.164" E
	30	26° 33' 18.174" N	89° 48' 27.982" E
	31	26° 33' 18.337" N	89° 48' 26.778" E
	32	26° 33' 18.500" N	89° 48' 24.730" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	33	26° 33' 19.697" N	89° 48' 23.307" E
	34	26° 33' 21.337" N	89° 48' 23.805" E
	35	26° 33' 18.713" N	89° 48' 20.391" E
	36	26° 33' 16.846" N	89° 48' 17.962" E
	37	26° 33' 15.568" N	89° 48' 17.303" E
	38	26° 33' 15.980" N	89° 48' 15.321" E
	39	26° 33' 19.591" N	89° 48' 14.742" E
	40	26° 33' 23.675" N	89° 48' 13.312" E
	41	26° 33' 24.085" N	89° 48' 13.250" E
	42	26° 33' 26.204" N	89° 48' 15.030" E
	43	26° 33' 30.663" N	89° 48' 15.884" E
	44	26° 33' 31.825" N	89° 48' 16.512" E
	45	26° 33' 37.785" N	89° 48' 19.732" E
	46	26° 33' 46.591" N	89° 48' 21.035" E
	47	26° 33' 55.000" N	89° 48' 22.411" E
	48	26° 34' 2.307" N	89° 48' 22.847" E
	49	26° 34' 6.600" N	89° 48' 22.560" E
	50	26° 34' 8.395" N	89° 48' 23.513" E
	51	26° 34' 13.202" N	89° 48' 25.898" E
	52	26° 34' 12.031" N	89° 48' 26.112" E
AD_KG_RD2_24	1	26° 33' 48.083" N	89° 48' 43.781" E
	2	26° 33' 47.015" N	89° 48' 45.435" E
	3	26° 33' 46.915" N	89° 48' 50.498" E
	4	26° 33' 48.117" N	89° 48' 54.876" E
	5	26° 33' 52.319" N	89° 48' 59.709" E
	6	26° 33' 53.405" N	89° 49' 1.265" E
	7	26° 33' 53.254" N	89° 49' 1.935" E
	8	26° 33' 49.280" N	89° 49' 0.465" E
	9	26° 33' 45.706" N	89° 48' 58.880" E
	10	26° 33' 39.105" N	89° 48' 55.953" E
	11	26° 33' 33.819" N	89° 48' 51.927" E
	12	26° 33' 32.438" N	89° 48' 50.248" E
	13	26° 33' 32.137" N	89° 48' 46.163" E
	14	26° 33' 29.857" N	89° 48' 44.101" E
	15	26° 33' 27.278" N	89° 48' 39.833" E
	16	26° 33' 25.086" N	89° 48' 37.446" E
	17	26° 33' 26.552" N	89° 48' 37.195" E
	18	26° 33' 28.791" N	89° 48' 37.194" E
	19	26° 33' 30.514" N	89° 48' 36.949" E
	20	26° 33' 33.188" N	89° 48' 36.441" E
	21	26° 33' 34.574" N	89° 48' 35.902" E
	22	26° 33' 35.112" N	89° 48' 34.768" E
	23	26° 33' 34.986" N	89° 48' 32.471" E
	24	26° 33' 37.583" N	89° 48' 31.484" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	25	26° 33' 40.117" N	89° 48' 33.743" E
	26	26° 33' 46.026" N	89° 48' 39.144" E
	27	26° 33' 48.104" N	89° 48' 39.902" E
	28	26° 33' 53.319" N	89° 48' 39.569" E
	29	26° 33' 54.233" N	89° 48' 41.120" E
	30	26° 33' 49.474" N	89° 48' 42.955" E
AD_KG_RD2_25_23	1	26° 33' 5.754" N	89° 48' 28.701" E
	2	26° 33' 0.483" N	89° 48' 28.129" E
	3	26° 32' 59.215" N	89° 48' 27.095" E
	4	26° 32' 57.891" N	89° 48' 23.875" E
	5	26° 32' 54.595" N	89° 48' 23.689" E
	6	26° 32' 53.443" N	89° 48' 22.820" E
	7	26° 32' 52.135" N	89° 48' 19.425" E
	8	26° 32' 51.397" N	89° 48' 18.482" E
	9	26° 32' 52.585" N	89° 48' 17.524" E
	10	26° 32' 54.612" N	89° 48' 19.332" E
	11	26° 32' 56.110" N	89° 48' 20.057" E
	12	26° 33' 0.637" N	89° 48' 20.625" E
	13	26° 32' 59.457" N	89° 48' 17.692" E
	14	26° 32' 58.461" N	89° 48' 15.909" E
	15	26° 32' 56.502" N	89° 48' 14.103" E
	16	26° 32' 54.961" N	89° 48' 12.078" E
	17	26° 32' 53.842" N	89° 48' 9.528" E
	18	26° 32' 52.038" N	89° 48' 6.885" E
	19	26° 32' 49.784" N	89° 48' 6.143" E
	20	26° 32' 46.562" N	89° 48' 5.682" E
	21	26° 32' 45.106" N	89° 48' 6.258" E
	22	26° 32' 45.160" N	89° 48' 7.024" E
	23	26° 32' 47.596" N	89° 48' 8.994" E
	24	26° 32' 48.643" N	89° 48' 11.695" E
	25	26° 32' 49.100" N	89° 48' 12.929" E
	26	26° 32' 47.002" N	89° 48' 13.124" E
	27	26° 32' 44.627" N	89° 48' 13.126" E
	28	26° 32' 39.855" N	89° 48' 9.511" E
	29	26° 32' 35.205" N	89° 48' 7.138" E
	30	26° 32' 33.468" N	89° 48' 6.489" E
	31	26° 32' 32.051" N	89° 48' 4.257" E
	32	26° 32' 30.053" N	89° 48' 2.730" E
	33	26° 32' 31.146" N	89° 48' 0.922" E
	34	26° 32' 31.185" N	89° 48' 0.951" E
	35	26° 32' 35.505" N	89° 48' 0.063" E
	36	26° 32' 44.037" N	89° 48' 0.651" E
	37	26° 32' 47.270" N	89° 47' 59.688" E
	38	26° 32' 47.818" N	89° 48' 1.202" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	39	26° 32' 48.393" N	89° 48' 1.561" E
	40	26° 32' 53.216" N	89° 48' 2.224" E
	41	26° 32' 56.595" N	89° 48' 5.173" E
	42	26° 32' 58.292" N	89° 48' 6.289" E
	43	26° 33' 0.332" N	89° 48' 6.339" E
	44	26° 33' 3.122" N	89° 48' 6.526" E
	45	26° 33' 5.979" N	89° 48' 8.745" E
	46	26° 33' 7.853" N	89° 48' 11.777" E
	47	26° 33' 9.003" N	89° 48' 13.358" E
	48	26° 33' 10.807" N	89° 48' 14.477" E
	49	26° 33' 12.945" N	89° 48' 15.007" E
	50	26° 33' 13.998" N	89° 48' 16.108" E
	51	26° 33' 15.187" N	89° 48' 19.468" E
	52	26° 33' 15.457" N	89° 48' 21.071" E
	53	26° 33' 16.097" N	89° 48' 22.634" E
	54	26° 33' 16.129" N	89° 48' 23.610" E
	55	26° 33' 16.094" N	89° 48' 25.386" E
	56	26° 33' 16.381" N	89° 48' 27.584" E
	57	26° 33' 16.427" N	89° 48' 27.816" E
	58	26° 33' 13.892" N	89° 48' 28.549" E
	59	26° 33' 12.862" N	89° 48' 28.262" E
	60	26° 33' 10.397" N	89° 48' 29.559" E
	61	26° 33' 6.691" N	89° 48' 30.071" E
AD_KG_RD2_26	1	26° 33' 8.941" N	89° 48' 35.804" E
	2	26° 33' 6.579" N	89° 48' 35.402" E
	3	26° 33' 11.678" N	89° 48' 35.712" E
	4	26° 33' 13.621" N	89° 48' 35.071" E
	5	26° 33' 21.171" N	89° 48' 40.066" E
	6	26° 33' 28.690" N	89° 48' 46.652" E
	7	26° 33' 29.468" N	89° 48' 48.660" E
	8	26° 33' 25.322" N	89° 48' 45.614" E
	9	26° 33' 20.951" N	89° 48' 42.597" E
	10	26° 33' 17.505" N	89° 48' 41.115" E
	11	26° 33' 14.897" N	89° 48' 39.994" E
	12	26° 33' 11.554" N	89° 48' 37.824" E
AD_KG_RD2_27	1	26° 32' 28.187" N	89° 48' 14.300" E
	2	26° 32' 27.378" N	89° 48' 14.005" E
	3	26° 32' 27.648" N	89° 48' 13.019" E
	4	26° 32' 28.767" N	89° 48' 12.053" E
	5	26° 32' 35.837" N	89° 48' 12.607" E
	6	26° 32' 38.820" N	89° 48' 14.743" E
	7	26° 32' 39.237" N	89° 48' 15.142" E
	8	26° 32' 36.853" N	89° 48' 15.328" E
	9	26° 32' 33.130" N	89° 48' 15.747" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	10	26° 32' 31.407" N	89° 48' 15.183" E
AD_KG_RD2_28	1	26° 32' 15.056" N	89° 48' 11.094" E
	2	26° 32' 14.338" N	89° 48' 10.100" E
	3	26° 32' 14.985" N	89° 48' 9.518" E
	4	26° 32' 15.962" N	89° 48' 8.777" E
	5	26° 32' 16.734" N	89° 48' 7.955" E
	6	26° 32' 17.505" N	89° 48' 7.210" E
	7	26° 32' 19.580" N	89° 48' 6.572" E
	8	26° 32' 21.477" N	89° 48' 5.890" E
	9	26° 32' 22.714" N	89° 48' 6.216" E
	10	26° 32' 31.370" N	89° 48' 7.478" E
	11	26° 32' 34.324" N	89° 48' 10.225" E
	12	26° 32' 30.284" N	89° 48' 10.222" E
	13	26° 32' 26.820" N	89° 48' 11.571" E
	14	26° 32' 24.625" N	89° 48' 13.001" E
	15	26° 32' 24.134" N	89° 48' 12.822" E
	16	26° 32' 21.578" N	89° 48' 12.564" E
	17	26° 32' 20.766" N	89° 48' 12.525" E
	18	26° 32' 19.272" N	89° 48' 12.454" E
	19	26° 32' 18.963" N	89° 48' 12.509" E
AD_KG_RD2_29	1	26° 32' 11.617" N	89° 48' 13.163" E
	2	26° 32' 9.602" N	89° 48' 12.780" E
	3	26° 32' 9.769" N	89° 48' 12.765" E
	4	26° 32' 12.318" N	89° 48' 11.959" E
	5	26° 32' 13.961" N	89° 48' 13.393" E
	6	26° 32' 13.232" N	89° 48' 13.522" E
AD_KG_RD2_30	1	26° 31' 52.546" N	89° 47' 50.823" E
	2	26° 31' 52.440" N	89° 47' 50.742" E
	3	26° 31' 54.368" N	89° 47' 50.294" E
	4	26° 31' 57.072" N	89° 47' 49.654" E
	5	26° 32' 1.027" N	89° 47' 48.706" E
	6	26° 32' 5.939" N	89° 47' 48.244" E
	7	26° 32' 8.769" N	89° 47' 47.845" E
	8	26° 32' 12.683" N	89° 47' 47.324" E
	9	26° 32' 13.799" N	89° 47' 47.209" E
	10	26° 32' 13.977" N	89° 47' 47.277" E
	11	26° 32' 17.577" N	89° 47' 49.811" E
	12	26° 32' 16.917" N	89° 47' 50.350" E
	13	26° 32' 9.290" N	89° 47' 50.089" E
	14	26° 32' 5.913" N	89° 47' 50.542" E
	15	26° 32' 4.314" N	89° 47' 51.420" E
	16	26° 32' 2.293" N	89° 47' 52.824" E
	17	26° 32' 0.286" N	89° 47' 53.463" E
	18	26° 31' 59.597" N	89° 47' 55.170" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	19	26° 31' 59.129" N	89° 47' 55.038" E
	20	26° 31' 58.453" N	89° 47' 54.687" E
	21	26° 31' 57.251" N	89° 47' 55.129" E
	22	26° 31' 55.537" N	89° 47' 54.858" E
	23	26° 31' 54.869" N	89° 47' 53.287" E
AD_KG_RD2_31	1	26° 32' 24.589" N	89° 48' 1.737" E
	2	26° 32' 22.720" N	89° 48' 1.764" E
	3	26° 32' 22.724" N	89° 48' 2.214" E
	4	26° 32' 21.875" N	89° 48' 1.736" E
	5	26° 32' 15.680" N	89° 48' 2.120" E
	6	26° 32' 13.320" N	89° 48' 3.286" E
	7	26° 32' 10.780" N	89° 48' 3.072" E
	8	26° 32' 8.409" N	89° 48' 4.772" E
	9	26° 32' 7.902" N	89° 48' 6.059" E
	10	26° 32' 6.728" N	89° 48' 6.336" E
	11	26° 32' 5.904" N	89° 48' 7.338" E
	12	26° 32' 3.021" N	89° 48' 6.687" E
	13	26° 31' 55.842" N	89° 48' 6.313" E
	14	26° 31' 52.010" N	89° 48' 8.422" E
	15	26° 31' 53.516" N	89° 48' 9.519" E
	16	26° 31' 52.117" N	89° 48' 10.727" E
	17	26° 31' 49.441" N	89° 48' 11.331" E
	18	26° 31' 49.157" N	89° 48' 11.403" E
	19	26° 31' 46.103" N	89° 48' 11.718" E
	20	26° 31' 39.107" N	89° 48' 13.846" E
	21	26° 31' 35.383" N	89° 48' 12.580" E
	22	26° 31' 30.587" N	89° 48' 10.938" E
	23	26° 31' 29.938" N	89° 48' 10.864" E
	24	26° 31' 29.504" N	89° 48' 10.814" E
	25	26° 31' 26.168" N	89° 48' 6.084" E
	26	26° 31' 23.811" N	89° 48' 5.800" E
	27	26° 31' 18.359" N	89° 48' 3.374" E
	28	26° 31' 17.324" N	89° 48' 0.063" E
	29	26° 31' 17.577" N	89° 47' 57.247" E
	30	26° 31' 16.243" N	89° 47' 55.772" E
	31	26° 31' 17.807" N	89° 47' 53.867" E
	32	26° 31' 17.881" N	89° 47' 52.701" E
	33	26° 31' 20.600" N	89° 47' 50.761" E
	34	26° 31' 21.672" N	89° 47' 49.431" E
	35	26° 31' 22.542" N	89° 47' 49.190" E
	36	26° 31' 24.909" N	89° 47' 48.570" E
	37	26° 31' 29.213" N	89° 47' 46.901" E
	38	26° 31' 31.757" N	89° 47' 47.464" E
	39	26° 31' 37.936" N	89° 47' 48.958" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	40	26° 31' 43.176" N	89° 47' 50.219" E
	41	26° 31' 46.985" N	89° 47' 50.559" E
	42	26° 31' 48.085" N	89° 47' 50.752" E
	43	26° 31' 48.130" N	89° 47' 51.315" E
	44	26° 31' 49.543" N	89° 47' 53.738" E
	45	26° 31' 55.076" N	89° 47' 56.452" E
	46	26° 31' 56.052" N	89° 47' 55.766" E
	47	26° 31' 56.105" N	89° 47' 55.824" E
	48	26° 32' 0.511" N	89° 47' 56.152" E
	49	26° 32' 1.105" N	89° 47' 55.649" E
	50	26° 32' 1.351" N	89° 47' 55.665" E
	51	26° 32' 3.817" N	89° 47' 54.923" E
	52	26° 32' 9.191" N	89° 47' 51.962" E
	53	26° 32' 9.667" N	89° 47' 51.933" E
	54	26° 32' 11.459" N	89° 47' 51.670" E
	55	26° 32' 13.036" N	89° 47' 51.938" E
	56	26° 32' 15.872" N	89° 47' 53.012" E
	57	26° 32' 18.528" N	89° 47' 54.299" E
	58	26° 32' 22.671" N	89° 47' 55.469" E
	59	26° 32' 25.191" N	89° 47' 57.338" E
	60	26° 32' 26.883" N	89° 47' 57.837" E
	61	26° 32' 27.572" N	89° 47' 59.517" E
	62	26° 32' 28.097" N	89° 48' 1.651" E
	63	26° 32' 28.241" N	89° 48' 2.228" E
	64	26° 32' 26.897" N	89° 48' 2.367" E
	65	26° 32' 25.769" N	89° 48' 2.053" E
AD_KG_RD2_32	1	26° 30' 54.667" N	89° 48' 5.846" E
	2	26° 30' 54.604" N	89° 48' 5.631" E
	3	26° 30' 55.210" N	89° 48' 3.640" E
	4	26° 30' 56.071" N	89° 48' 1.826" E
	5	26° 30' 58.489" N	89° 47' 59.478" E
	6	26° 30' 59.771" N	89° 47' 57.216" E
	7	26° 31' 0.764" N	89° 47' 56.552" E
	8	26° 31' 2.172" N	89° 47' 55.727" E
	9	26° 31' 3.313" N	89° 47' 55.411" E
	10	26° 31' 4.554" N	89° 47' 55.211" E
	11	26° 31' 5.713" N	89° 47' 53.979" E
	12	26° 31' 7.367" N	89° 47' 53.789" E
	13	26° 31' 8.180" N	89° 47' 54.382" E
	14	26° 31' 8.324" N	89° 47' 55.559" E
	15	26° 31' 11.370" N	89° 47' 55.957" E
	16	26° 31' 14.081" N	89° 47' 57.933" E
	17	26° 31' 17.726" N	89° 48' 4.900" E
	18	26° 31' 26.017" N	89° 48' 10.707" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	19	26° 31' 23.156" N	89° 48' 10.863" E
	20	26° 31' 20.588" N	89° 48' 8.935" E
	21	26° 31' 18.539" N	89° 48' 7.424" E
	22	26° 31' 16.889" N	89° 48' 6.254" E
	23	26° 31' 15.496" N	89° 48' 5.298" E
	24	26° 31' 14.150" N	89° 48' 5.238" E
	25	26° 31' 11.828" N	89° 48' 4.891" E
	26	26° 31' 10.063" N	89° 48' 4.611" E
	27	26° 31' 7.910" N	89° 48' 4.268" E
	28	26° 31' 5.429" N	89° 48' 3.893" E
	29	26° 31' 4.560" N	89° 48' 4.091" E
	30	26° 31' 1.422" N	89° 48' 5.170" E
	31	26° 30' 58.116" N	89° 48' 6.240" E
	32	26° 30' 55.407" N	89° 48' 5.931" E
AD_KG_RD2_33	1	26° 30' 54.810" N	89° 47' 57.145" E
	2	26° 30' 49.936" N	89° 48' 2.472" E
	3	26° 30' 50.050" N	89° 48' 3.652" E
	4	26° 30' 44.763" N	89° 48' 2.953" E
	5	26° 30' 36.767" N	89° 47' 58.747" E
	6	26° 30' 30.989" N	89° 47' 55.359" E
	7	26° 30' 26.231" N	89° 47' 52.569" E
	8	26° 30' 26.303" N	89° 47' 52.554" E
	9	26° 30' 19.221" N	89° 47' 50.680" E
	10	26° 30' 13.914" N	89° 47' 49.596" E
	11	26° 30' 17.597" N	89° 47' 45.864" E
	12	26° 30' 17.606" N	89° 47' 45.858" E
	13	26° 30' 17.777" N	89° 47' 45.834" E
	14	26° 30' 20.166" N	89° 47' 44.723" E
	15	26° 30' 23.000" N	89° 47' 43.399" E
	16	26° 30' 25.401" N	89° 47' 42.279" E
	17	26° 30' 27.158" N	89° 47' 41.471" E
	18	26° 30' 30.103" N	89° 47' 41.325" E
	19	26° 30' 33.394" N	89° 47' 41.266" E
	20	26° 30' 37.127" N	89° 47' 41.213" E
	21	26° 30' 39.446" N	89° 47' 41.180" E
	22	26° 30' 42.585" N	89° 47' 41.931" E
	23	26° 30' 42.920" N	89° 47' 42.011" E
	24	26° 30' 46.019" N	89° 47' 42.732" E
	25	26° 30' 49.009" N	89° 47' 43.425" E
	26	26° 30' 48.577" N	89° 47' 44.166" E
	27	26° 30' 50.765" N	89° 47' 43.826" E
	28	26° 30' 52.034" N	89° 47' 44.113" E
	29	26° 30' 55.562" N	89° 47' 44.911" E
	30	26° 30' 58.715" N	89° 47' 45.635" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	31	26° 31' 0.942" N	89° 47' 46.114" E
	32	26° 31' 3.531" N	89° 47' 46.472" E
	33	26° 31' 6.572" N	89° 47' 47.570" E
	34	26° 31' 8.152" N	89° 47' 48.244" E
	35	26° 31' 10.085" N	89° 47' 49.060" E
	36	26° 31' 12.099" N	89° 47' 49.933" E
	37	26° 31' 13.733" N	89° 47' 50.641" E
	38	26° 31' 15.465" N	89° 47' 51.366" E
	39	26° 31' 16.887" N	89° 47' 50.850" E
	40	26° 31' 18.645" N	89° 47' 50.315" E
	41	26° 31' 18.841" N	89° 47' 50.256" E
	42	26° 31' 18.957" N	89° 47' 50.478" E
	43	26° 31' 18.866" N	89° 47' 50.598" E
	44	26° 31' 14.706" N	89° 47' 52.407" E
	45	26° 31' 10.082" N	89° 47' 51.531" E
	46	26° 31' 4.947" N	89° 47' 50.451" E
	47	26° 31' 1.248" N	89° 47' 54.488" E
	48	26° 30' 59.720" N	89° 47' 54.399" E
AD_KG_RD2_34	1	26° 30' 20.260" N	89° 47' 56.303" E
	2	26° 30' 19.996" N	89° 47' 55.841" E
	3	26° 30' 21.297" N	89° 47' 55.824" E
	4	26° 30' 23.091" N	89° 47' 56.345" E
	5	26° 30' 25.324" N	89° 47' 56.296" E
	6	26° 30' 30.998" N	89° 48' 0.957" E
	7	26° 30' 32.301" N	89° 48' 1.722" E
	8	26° 30' 32.246" N	89° 48' 2.777" E
	9	26° 30' 30.476" N	89° 48' 3.664" E
	10	26° 30' 26.680" N	89° 48' 1.999" E
	11	26° 30' 22.942" N	89° 47' 59.807" E
AD_KG_RD2_35	1	26° 30' 22.766" N	89° 48' 8.536" E
	2	26° 30' 19.218" N	89° 48' 9.851" E
	3	26° 30' 18.963" N	89° 48' 9.835" E
	4	26° 30' 14.676" N	89° 48' 9.349" E
	5	26° 30' 7.976" N	89° 48' 9.186" E
	6	26° 30' 4.951" N	89° 48' 11.385" E
	7	26° 30' 3.090" N	89° 48' 11.145" E
	8	26° 30' 1.225" N	89° 48' 10.906" E
	9	26° 29' 59.695" N	89° 48' 10.742" E
	10	26° 29' 58.153" N	89° 48' 10.705" E
	11	26° 29' 56.602" N	89° 48' 10.462" E
	12	26° 29' 54.558" N	89° 48' 10.211" E
	13	26° 29' 52.829" N	89° 48' 9.406" E
	14	26° 29' 51.559" N	89° 48' 8.815" E
	15	26° 29' 48.460" N	89° 48' 7.369" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	16	26° 29' 45.516" N	89° 48' 6.233" E
	17	26° 29' 45.054" N	89° 48' 6.043" E
	18	26° 29' 49.865" N	89° 48' 4.869" E
	19	26° 30' 1.940" N	89° 47' 53.892" E
	20	26° 30' 9.533" N	89° 47' 52.356" E
	21	26° 30' 16.689" N	89° 47' 55.586" E
	22	26° 30' 19.133" N	89° 48' 0.151" E
	23	26° 30' 22.157" N	89° 48' 0.521" E
	24	26° 30' 23.061" N	89° 48' 3.485" E
	25	26° 30' 22.713" N	89° 48' 6.018" E
	26	26° 30' 25.157" N	89° 48' 7.333" E
	27	26° 30' 25.588" N	89° 48' 7.564" E
	28	26° 30' 24.319" N	89° 48' 8.001" E
AD_KG_RD2_36	1	26° 29' 56.350" N	89° 47' 46.307" E
	2	26° 29' 56.284" N	89° 47' 46.243" E
	3	26° 29' 56.507" N	89° 47' 46.227" E
	4	26° 29' 58.040" N	89° 47' 46.011" E
	5	26° 29' 59.910" N	89° 47' 45.726" E
	6	26° 30' 1.031" N	89° 47' 45.585" E
	7	26° 30' 3.520" N	89° 47' 45.833" E
	8	26° 30' 6.027" N	89° 47' 46.085" E
	9	26° 30' 8.950" N	89° 47' 46.216" E
	10	26° 30' 11.167" N	89° 47' 46.224" E
	11	26° 30' 14.107" N	89° 47' 46.227" E
	12	26° 30' 14.394" N	89° 47' 46.201" E
	13	26° 30' 12.634" N	89° 47' 48.612" E
	14	26° 30' 7.729" N	89° 47' 46.702" E
	15	26° 30' 2.456" N	89° 47' 47.171" E
	16	26° 30' 0.717" N	89° 47' 48.204" E
AD_KG_RD2_37	1	26° 29' 32.909" N	89° 47' 58.394" E
	2	26° 29' 29.932" N	89° 47' 55.001" E
	3	26° 29' 37.002" N	89° 47' 49.568" E
	4	26° 29' 37.802" N	89° 47' 49.917" E
	5	26° 29' 41.385" N	89° 47' 47.974" E
	6	26° 29' 43.642" N	89° 47' 46.846" E
	7	26° 29' 45.906" N	89° 47' 46.727" E
	8	26° 29' 49.695" N	89° 47' 46.498" E
	9	26° 29' 53.260" N	89° 47' 46.144" E
	10	26° 29' 55.031" N	89° 47' 47.827" E
	11	26° 29' 57.050" N	89° 47' 50.547" E
	12	26° 29' 50.692" N	89° 47' 54.610" E
	13	26° 29' 44.830" N	89° 48' 2.912" E
	14	26° 29' 40.135" N	89° 48' 2.390" E
	15	26° 29' 40.005" N	89° 48' 2.318" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	16	26° 29' 39.723" N	89° 48' 1.919" E
	17	26° 29' 39.274" N	89° 48' 1.914" E
AD_KG_RD2_38	1	26° 28' 41.715" N	89° 47' 25.577" E
	2	26° 28' 40.293" N	89° 47' 23.493" E
	3	26° 28' 44.686" N	89° 47' 7.681" E
	4	26° 28' 46.218" N	89° 47' 8.915" E
	5	26° 28' 47.877" N	89° 47' 10.305" E
	6	26° 28' 49.723" N	89° 47' 11.852" E
	7	26° 28' 52.958" N	89° 47' 15.599" E
	8	26° 28' 56.228" N	89° 47' 19.472" E
	9	26° 28' 59.325" N	89° 47' 22.777" E
	10	26° 29' 2.512" N	89° 47' 25.907" E
	11	26° 29' 3.469" N	89° 47' 26.805" E
	12	26° 29' 6.617" N	89° 47' 30.420" E
	13	26° 29' 8.931" N	89° 47' 32.136" E
	14	26° 29' 9.144" N	89° 47' 32.350" E
	15	26° 29' 11.700" N	89° 47' 35.048" E
	16	26° 29' 14.224" N	89° 47' 37.789" E
	17	26° 29' 15.225" N	89° 47' 38.595" E
	18	26° 29' 16.705" N	89° 47' 41.049" E
	19	26° 29' 17.547" N	89° 47' 47.397" E
	20	26° 29' 24.412" N	89° 47' 53.413" E
	21	26° 29' 26.620" N	89° 47' 55.976" E
	22	26° 29' 28.374" N	89° 47' 57.217" E
	23	26° 29' 29.792" N	89° 47' 59.658" E
	24	26° 29' 31.621" N	89° 48' 1.782" E
	25	26° 29' 30.526" N	89° 48' 1.755" E
	26	26° 29' 23.150" N	89° 48' 1.710" E
	27	26° 29' 16.600" N	89° 48' 0.531" E
	28	26° 29' 11.188" N	89° 47' 58.614" E
	29	26° 29' 5.808" N	89° 47' 57.119" E
	30	26° 29' 0.459" N	89° 47' 54.549" E
	31	26° 28' 58.060" N	89° 47' 50.151" E
	32	26° 28' 56.164" N	89° 47' 46.755" E
	33	26° 28' 54.001" N	89° 47' 42.963" E
	34	26° 28' 51.402" N	89° 47' 39.293" E
	35	26° 28' 48.797" N	89° 47' 36.120" E
	36	26° 28' 46.522" N	89° 47' 32.987" E
	37	26° 28' 44.093" N	89° 47' 29.330" E
AD_KG_RD2_39	1	26° 28' 4.768" N	89° 46' 55.026" E
	2	26° 28' 3.106" N	89° 46' 52.122" E
	3	26° 28' 3.785" N	89° 46' 50.348" E
	4	26° 28' 6.678" N	89° 46' 50.775" E
	5	26° 28' 9.339" N	89° 46' 52.033" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	6	26° 28' 11.801" N	89° 46' 53.697" E
	7	26° 28' 9.802" N	89° 46' 58.894" E
	8	26° 28' 7.939" N	89° 46' 57.729" E
	9	26° 28' 13.367" N	89° 46' 51.357" E
	10	26° 28' 10.368" N	89° 46' 48.835" E
	11	26° 28' 11.762" N	89° 46' 48.988" E
	12	26° 28' 13.590" N	89° 46' 49.701" E
	13	26° 28' 14.276" N	89° 46' 50.213" E
AD_KG_RD2_40	1	26° 27' 59.318" N	89° 47' 5.615" E
	2	26° 27' 52.767" N	89° 47' 4.894" E
	3	26° 27' 52.874" N	89° 47' 4.461" E
	4	26° 27' 52.834" N	89° 47' 2.073" E
	5	26° 27' 51.680" N	89° 46' 59.562" E
	6	26° 27' 50.709" N	89° 46' 56.483" E
	7	26° 27' 50.684" N	89° 46' 53.332" E
	8	26° 27' 49.442" N	89° 46' 50.915" E
	9	26° 27' 47.128" N	89° 46' 46.180" E
	10	26° 27' 47.252" N	89° 46' 44.000" E
	11	26° 27' 50.433" N	89° 46' 46.446" E
	12	26° 27' 51.875" N	89° 46' 44.093" E
	13	26° 27' 56.955" N	89° 46' 48.035" E
	14	26° 28' 1.979" N	89° 46' 54.840" E
	15	26° 28' 5.539" N	89° 47' 5.685" E
AD_MD_BG_01	1	26° 45' 2.667" N	89° 15' 50.210" E
	2	26° 45' 3.535" N	89° 15' 49.308" E
	3	26° 45' 4.385" N	89° 15' 48.422" E
	4	26° 45' 5.430" N	89° 15' 47.359" E
	5	26° 45' 6.340" N	89° 15' 46.385" E
	6	26° 45' 7.163" N	89° 15' 45.255" E
	7	26° 45' 8.110" N	89° 15' 44.172" E
	8	26° 45' 8.746" N	89° 15' 43.448" E
	9	26° 45' 9.835" N	89° 15' 42.328" E
	10	26° 45' 11.358" N	89° 15' 41.562" E
	11	26° 45' 12.312" N	89° 15' 41.084" E
	12	26° 45' 13.732" N	89° 15' 40.449" E
	13	26° 45' 14.790" N	89° 15' 40.003" E
	14	26° 45' 16.284" N	89° 15' 39.383" E
	15	26° 45' 17.561" N	89° 15' 39.031" E
	16	26° 45' 18.129" N	89° 15' 38.724" E
	17	26° 45' 19.359" N	89° 15' 37.611" E
	18	26° 45' 20.268" N	89° 15' 37.015" E
	19	26° 45' 21.241" N	89° 15' 36.419" E
	20	26° 45' 22.029" N	89° 15' 35.918" E
	21	26° 45' 22.703" N	89° 15' 35.427" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	22	26° 45' 23.463" N	89° 15' 34.826" E
	23	26° 45' 24.372" N	89° 15' 34.154" E
	24	26° 45' 25.313" N	89° 15' 33.462" E
	25	26° 45' 26.282" N	89° 15' 32.743" E
	26	26° 45' 27.211" N	89° 15' 32.040" E
	27	26° 45' 27.969" N	89° 15' 31.466" E
	28	26° 45' 32.403" N	89° 15' 28.941" E
	29	26° 45' 34.854" N	89° 15' 26.482" E
	30	26° 45' 35.831" N	89° 15' 25.750" E
	31	26° 45' 36.606" N	89° 15' 25.075" E
	32	26° 45' 36.533" N	89° 15' 23.215" E
	33	26° 45' 36.628" N	89° 15' 22.102" E
	34	26° 45' 37.685" N	89° 15' 20.105" E
	35	26° 45' 38.952" N	89° 15' 19.004" E
	36	26° 45' 39.656" N	89° 15' 18.400" E
	37	26° 45' 40.560" N	89° 15' 17.624" E
	38	26° 45' 41.486" N	89° 15' 16.927" E
	39	26° 45' 42.530" N	89° 15' 16.214" E
	40	26° 45' 43.932" N	89° 15' 15.278" E
	41	26° 45' 45.640" N	89° 15' 14.127" E
	42	26° 45' 46.462" N	89° 15' 13.570" E
	43	26° 45' 47.222" N	89° 15' 13.058" E
	44	26° 45' 48.983" N	89° 15' 12.522" E
	45	26° 45' 51.678" N	89° 15' 12.114" E
	46	26° 45' 54.403" N	89° 15' 11.570" E
	47	26° 45' 55.026" N	89° 15' 10.554" E
	48	26° 45' 55.631" N	89° 15' 9.522" E
	49	26° 45' 56.951" N	89° 15' 9.355" E
	50	26° 45' 58.037" N	89° 15' 9.217" E
	51	26° 45' 59.164" N	89° 15' 9.098" E
	52	26° 46' 0.049" N	89° 15' 9.044" E
	53	26° 46' 1.046" N	89° 15' 9.021" E
	54	26° 46' 1.988" N	89° 15' 9.040" E
	55	26° 46' 3.262" N	89° 15' 9.029" E
	56	26° 46' 5.027" N	89° 15' 8.347" E
	57	26° 46' 6.466" N	89° 15' 7.305" E
	58	26° 46' 7.613" N	89° 15' 6.329" E
	59	26° 46' 9.318" N	89° 15' 8.365" E
	60	26° 46' 8.140" N	89° 15' 9.707" E
	61	26° 46' 6.896" N	89° 15' 11.088" E
	62	26° 46' 5.656" N	89° 15' 12.391" E
	63	26° 46' 4.569" N	89° 15' 12.708" E
	64	26° 46' 3.267" N	89° 15' 12.838" E
	65	26° 46' 1.914" N	89° 15' 12.968" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	66	26° 46' 0.675" N	89° 15' 13.085" E
	67	26° 45' 59.792" N	89° 15' 13.174" E
	68	26° 45' 58.798" N	89° 15' 13.370" E
	69	26° 45' 57.812" N	89° 15' 13.698" E
	70	26° 45' 55.654" N	89° 15' 14.416" E
	71	26° 45' 54.783" N	89° 15' 15.029" E
	72	26° 45' 53.683" N	89° 15' 15.270" E
	73	26° 45' 52.904" N	89° 15' 15.432" E
	74	26° 45' 51.991" N	89° 15' 15.622" E
	75	26° 45' 51.121" N	89° 15' 15.571" E
	76	26° 45' 49.889" N	89° 15' 15.443" E
	77	26° 45' 48.976" N	89° 15' 15.343" E
	78	26° 45' 47.522" N	89° 15' 15.233" E
	79	26° 45' 46.137" N	89° 15' 16.057" E
	80	26° 45' 44.540" N	89° 15' 17.045" E
	81	26° 45' 43.802" N	89° 15' 17.444" E
	82	26° 45' 42.916" N	89° 15' 17.969" E
	83	26° 45' 42.100" N	89° 15' 18.453" E
	84	26° 45' 41.201" N	89° 15' 18.997" E
	85	26° 45' 40.217" N	89° 15' 19.603" E
	86	26° 45' 39.452" N	89° 15' 20.074" E
	87	26° 45' 38.275" N	89° 15' 21.285" E
	88	26° 45' 38.260" N	89° 15' 22.262" E
	89	26° 45' 38.233" N	89° 15' 24.480" E
	90	26° 45' 38.243" N	89° 15' 25.538" E
	91	26° 45' 37.774" N	89° 15' 26.381" E
	92	26° 45' 37.031" N	89° 15' 27.641" E
	93	26° 45' 35.231" N	89° 15' 29.316" E
	94	26° 45' 34.627" N	89° 15' 29.875" E
	95	26° 45' 33.480" N	89° 15' 30.930" E
	96	26° 45' 32.780" N	89° 15' 31.579" E
	97	26° 45' 32.047" N	89° 15' 32.258" E
	98	26° 45' 31.347" N	89° 15' 32.902" E
	99	26° 45' 30.754" N	89° 15' 33.476" E
	100	26° 45' 30.231" N	89° 15' 34.198" E
	101	26° 45' 29.561" N	89° 15' 35.109" E
	102	26° 45' 28.879" N	89° 15' 36.035" E
	103	26° 45' 28.292" N	89° 15' 36.811" E
	104	26° 45' 27.761" N	89° 15' 37.507" E
	105	26° 45' 27.233" N	89° 15' 38.200" E
	106	26° 45' 26.823" N	89° 15' 39.038" E
	107	26° 45' 26.409" N	89° 15' 39.899" E
	108	26° 45' 25.687" N	89° 15' 41.227" E
	109	26° 45' 25.207" N	89° 15' 42.183" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	110	26° 45' 24.430" N	89° 15' 43.974" E
	111	26° 45' 24.111" N	89° 15' 44.722" E
	112	26° 45' 23.479" N	89° 15' 46.207" E
	113	26° 45' 21.837" N	89° 15' 47.082" E
	114	26° 45' 18.571" N	89° 15' 46.448" E
	115	26° 45' 16.271" N	89° 15' 46.308" E
	116	26° 45' 14.567" N	89° 15' 46.261" E
	117	26° 45' 12.927" N	89° 15' 46.229" E
	118	26° 45' 11.872" N	89° 15' 46.497" E
	119	26° 45' 10.250" N	89° 15' 46.913" E
	120	26° 45' 9.357" N	89° 15' 47.193" E
	121	26° 45' 8.774" N	89° 15' 47.987" E
	122	26° 45' 8.068" N	89° 15' 48.959" E
	123	26° 45' 7.429" N	89° 15' 49.868" E
	124	26° 45' 6.223" N	89° 15' 51.920" E
	125	26° 45' 5.692" N	89° 15' 53.045" E
	126	26° 45' 4.617" N	89° 15' 54.881" E
	127	26° 45' 1.648" N	89° 15' 51.518" E
AD_MD_TL_01	1	26° 44' 59.287" N	89° 16' 30.347" E
	2	26° 45' 0.776" N	89° 16' 28.656" E
	3	26° 45' 2.270" N	89° 16' 27.033" E
	4	26° 45' 3.505" N	89° 16' 25.821" E
	5	26° 45' 5.672" N	89° 16' 23.954" E
	6	26° 45' 7.189" N	89° 16' 22.512" E
	7	26° 45' 8.676" N	89° 16' 21.029" E
	8	26° 45' 10.117" N	89° 16' 19.563" E
	9	26° 45' 11.842" N	89° 16' 17.766" E
	10	26° 45' 12.380" N	89° 16' 15.939" E
	11	26° 45' 12.893" N	89° 16' 13.699" E
	12	26° 45' 13.353" N	89° 16' 11.690" E
	13	26° 45' 16.402" N	89° 16' 10.379" E
	14	26° 45' 17.317" N	89° 16' 9.034" E
	15	26° 45' 18.730" N	89° 16' 7.026" E
	16	26° 45' 20.259" N	89° 16' 4.889" E
	17	26° 45' 22.128" N	89° 16' 2.857" E
	18	26° 45' 24.454" N	89° 16' 1.172" E
	19	26° 45' 26.353" N	89° 15' 59.716" E
	20	26° 45' 28.411" N	89° 15' 58.285" E
	21	26° 45' 30.046" N	89° 15' 57.091" E
	22	26° 45' 31.487" N	89° 15' 55.967" E
	23	26° 45' 33.340" N	89° 15' 54.529" E
	24	26° 45' 34.964" N	89° 15' 53.267" E
	25	26° 45' 36.763" N	89° 15' 53.199" E
	26	26° 45' 40.179" N	89° 15' 53.110" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	27	26° 45' 41.888" N	89° 15' 53.045" E
	28	26° 45' 42.948" N	89° 15' 52.097" E
	29	26° 45' 44.263" N	89° 15' 50.965" E
	30	26° 45' 45.772" N	89° 15' 49.707" E
	31	26° 45' 47.369" N	89° 15' 47.617" E
	32	26° 45' 48.428" N	89° 15' 46.031" E
	33	26° 45' 50.371" N	89° 15' 43.104" E
	34	26° 45' 52.531" N	89° 15' 41.449" E
	35	26° 45' 54.951" N	89° 15' 39.593" E
	36	26° 46' 5.842" N	89° 15' 37.046" E
	37	26° 46' 9.488" N	89° 15' 36.341" E
	38	26° 46' 13.609" N	89° 15' 36.000" E
	39	26° 46' 15.535" N	89° 15' 35.759" E
	40	26° 46' 16.935" N	89° 15' 32.351" E
	41	26° 46' 19.069" N	89° 15' 31.062" E
	42	26° 46' 21.924" N	89° 15' 29.667" E
	43	26° 46' 25.914" N	89° 15' 28.806" E
	44	26° 46' 30.883" N	89° 15' 27.779" E
	45	26° 46' 35.302" N	89° 15' 27.280" E
	46	26° 46' 39.569" N	89° 15' 26.823" E
	47	26° 46' 42.526" N	89° 15' 25.632" E
	48	26° 46' 46.351" N	89° 15' 24.078" E
	49	26° 46' 49.467" N	89° 15' 22.839" E
	50	26° 46' 53.121" N	89° 15' 21.380" E
	51	26° 46' 56.093" N	89° 15' 21.285" E
	52	26° 46' 59.471" N	89° 15' 21.102" E
	53	26° 47' 3.629" N	89° 15' 20.793" E
	54	26° 47' 7.444" N	89° 15' 20.448" E
	55	26° 47' 10.519" N	89° 15' 19.975" E
	56	26° 47' 13.621" N	89° 15' 28.160" E
	57	26° 47' 10.895" N	89° 15' 31.110" E
	58	26° 47' 8.015" N	89° 15' 34.070" E
	59	26° 47' 3.504" N	89° 15' 35.157" E
	60	26° 46' 59.764" N	89° 15' 35.807" E
	61	26° 46' 55.590" N	89° 15' 35.925" E
	62	26° 46' 52.435" N	89° 15' 35.533" E
	63	26° 46' 49.048" N	89° 15' 35.317" E
	64	26° 46' 46.095" N	89° 15' 35.121" E
	65	26° 46' 43.408" N	89° 15' 34.975" E
	66	26° 46' 38.731" N	89° 15' 35.273" E
	67	26° 46' 35.630" N	89° 15' 36.048" E
	68	26° 46' 30.521" N	89° 15' 37.351" E
	69	26° 46' 26.771" N	89° 15' 39.115" E
	70	26° 46' 24.229" N	89° 15' 40.713" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	71	26° 46' 22.390" N	89° 15' 41.981" E
	72	26° 46' 19.948" N	89° 15' 43.496" E
	73	26° 46' 18.026" N	89° 15' 43.847" E
	74	26° 46' 16.144" N	89° 15' 45.714" E
	75	26° 46' 14.588" N	89° 15' 46.416" E
	76	26° 46' 11.630" N	89° 15' 47.649" E
	77	26° 46' 8.103" N	89° 15' 48.921" E
	78	26° 46' 4.003" N	89° 15' 50.063" E
	79	26° 46' 0.021" N	89° 15' 50.331" E
	80	26° 45' 56.870" N	89° 15' 50.351" E
	81	26° 45' 54.638" N	89° 15' 52.247" E
	82	26° 45' 52.855" N	89° 15' 53.761" E
	83	26° 45' 51.412" N	89° 15' 55.188" E
	84	26° 45' 49.514" N	89° 15' 56.392" E
	85	26° 45' 48.172" N	89° 15' 56.865" E
	86	26° 45' 46.516" N	89° 15' 57.402" E
	87	26° 45' 45.134" N	89° 15' 58.068" E
	88	26° 45' 44.016" N	89° 15' 58.854" E
	89	26° 45' 42.386" N	89° 15' 59.795" E
	90	26° 45' 40.710" N	89° 16' 0.761" E
	91	26° 45' 39.526" N	89° 16' 1.404" E
	92	26° 45' 37.811" N	89° 16' 2.395" E
	93	26° 45' 36.279" N	89° 16' 3.449" E
	94	26° 45' 34.297" N	89° 16' 4.720" E
	95	26° 45' 33.353" N	89° 16' 5.467" E
	96	26° 45' 31.641" N	89° 16' 6.132" E
	97	26° 45' 29.400" N	89° 16' 7.062" E
	98	26° 45' 27.446" N	89° 16' 7.756" E
	99	26° 45' 24.808" N	89° 16' 8.767" E
	100	26° 45' 22.611" N	89° 16' 9.702" E
	101	26° 45' 21.884" N	89° 16' 11.160" E
	102	26° 45' 20.965" N	89° 16' 13.075" E
	103	26° 45' 20.031" N	89° 16' 15.088" E
	104	26° 45' 19.105" N	89° 16' 16.790" E
	105	26° 45' 17.839" N	89° 16' 18.777" E
	106	26° 45' 16.540" N	89° 16' 21.088" E
	107	26° 45' 14.874" N	89° 16' 23.482" E
	108	26° 45' 13.372" N	89° 16' 25.347" E
	109	26° 45' 11.699" N	89° 16' 27.182" E
	110	26° 45' 10.225" N	89° 16' 28.785" E
	111	26° 45' 8.721" N	89° 16' 30.215" E
	112	26° 45' 6.803" N	89° 16' 31.389" E
	113	26° 45' 4.702" N	89° 16' 32.672" E
	114	26° 45' 3.376" N	89° 16' 33.533" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
AD_MD_TU_01	1	26° 46' 41.522" N	89° 12' 39.889" E
	2	26° 46' 38.447" N	89° 12' 38.608" E
	3	26° 46' 39.448" N	89° 12' 35.323" E
	4	26° 46' 39.918" N	89° 12' 34.994" E
	5	26° 46' 43.131" N	89° 12' 36.205" E
	6	26° 46' 46.977" N	89° 12' 38.135" E
	7	26° 46' 48.309" N	89° 12' 38.264" E
	8	26° 46' 50.304" N	89° 12' 38.504" E
	9	26° 46' 51.813" N	89° 12' 38.773" E
	10	26° 46' 54.503" N	89° 12' 39.214" E
	11	26° 46' 54.767" N	89° 12' 42.229" E
	12	26° 46' 49.355" N	89° 12' 41.937" E
	13	26° 46' 44.859" N	89° 12' 40.873" E
AD_KC_TR_01	1	26° 51' 1.873" N	89° 22' 7.699" E
	2	26° 50' 59.888" N	89° 22' 6.324" E
	3	26° 51' 0.666" N	89° 22' 6.244" E
	4	26° 51' 6.115" N	89° 22' 5.865" E
	5	26° 51' 13.208" N	89° 22' 3.881" E
	6	26° 51' 16.631" N	89° 22' 1.493" E
	7	26° 51' 20.152" N	89° 22' 2.058" E
	8	26° 51' 25.631" N	89° 22' 2.752" E
	9	26° 51' 27.558" N	89° 22' 6.697" E
	10	26° 51' 29.267" N	89° 22' 10.195" E
AD_KC_TR_02	1	26° 51' 22.851" N	89° 22' 0.561" E
	2	26° 51' 18.058" N	89° 22' 0.346" E
	3	26° 51' 17.965" N	89° 21' 59.769" E
	4	26° 51' 16.938" N	89° 21' 59.460" E
	5	26° 51' 15.219" N	89° 22' 0.517" E
	6	26° 51' 13.806" N	89° 22' 1.752" E
	7	26° 51' 8.759" N	89° 22' 4.350" E
	8	26° 51' 6.238" N	89° 22' 4.021" E
	9	26° 51' 3.913" N	89° 22' 4.260" E
	10	26° 50' 58.099" N	89° 22' 5.002" E
	11	26° 50' 57.949" N	89° 22' 4.982" E
	12	26° 50' 53.164" N	89° 22' 1.668" E
	13	26° 50' 50.836" N	89° 21' 59.582" E
	14	26° 50' 50.412" N	89° 21' 59.202" E
	15	26° 50' 37.460" N	89° 21' 47.601" E
	16	26° 50' 43.820" N	89° 21' 47.600" E
	17	26° 50' 45.355" N	89° 21' 48.350" E
	18	26° 50' 46.572" N	89° 21' 52.688" E
	19	26° 50' 48.720" N	89° 21' 55.320" E
	20	26° 50' 51.135" N	89° 21' 57.382" E
	21	26° 50' 53.314" N	89° 21' 58.146" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	22	26° 50' 55.885" N	89° 21' 58.631" E
	23	26° 50' 57.983" N	89° 21' 56.519" E
	24	26° 50' 54.649" N	89° 21' 55.443" E
	25	26° 50' 54.498" N	89° 21' 56.734" E
	26	26° 50' 52.708" N	89° 21' 55.834" E
	27	26° 50' 49.775" N	89° 21' 53.904" E
	28	26° 50' 47.770" N	89° 21' 50.413" E
	29	26° 50' 47.312" N	89° 21' 46.954" E
	30	26° 50' 48.222" N	89° 21' 46.541" E
	31	26° 50' 51.836" N	89° 21' 46.329" E
	32	26° 50' 55.874" N	89° 21' 44.958" E
	33	26° 51' 1.718" N	89° 21' 42.792" E
	34	26° 51' 4.949" N	89° 21' 42.859" E
	35	26° 51' 8.850" N	89° 21' 43.937" E
	36	26° 51' 12.946" N	89° 21' 42.916" E
	37	26° 51' 16.293" N	89° 21' 48.376" E
	38	26° 51' 19.643" N	89° 21' 49.799" E
	39	26° 51' 19.369" N	89° 21' 56.422" E
	40	26° 51' 22.659" N	89° 21' 57.027" E
	41	26° 51' 23.392" N	89° 21' 58.166" E
	42	26° 51' 24.989" N	89° 22' 1.436" E
	43	26° 51' 23.612" N	89° 22' 1.324" E
AD_KC_TR_03_05	1	26° 50' 40.202" N	89° 21' 41.778" E
	2	26° 50' 37.324" N	89° 21' 40.401" E
	3	26° 50' 35.949" N	89° 21' 39.821" E
	4	26° 50' 35.452" N	89° 21' 39.833" E
	5	26° 50' 35.333" N	89° 21' 40.549" E
	6	26° 50' 28.940" N	89° 21' 39.763" E
	7	26° 50' 28.332" N	89° 21' 39.733" E
	8	26° 50' 25.653" N	89° 21' 37.544" E
	9	26° 50' 14.354" N	89° 21' 28.306" E
	10	26° 50' 11.946" N	89° 21' 26.338" E
	11	26° 50' 3.736" N	89° 21' 22.134" E
	12	26° 50' 0.712" N	89° 21' 20.586" E
	13	26° 49' 57.822" N	89° 21' 17.625" E
	14	26° 49' 49.207" N	89° 21' 5.830" E
	15	26° 49' 45.160" N	89° 21' 6.350" E
	16	26° 49' 41.670" N	89° 21' 9.511" E
	17	26° 49' 40.273" N	89° 21' 9.483" E
	18	26° 49' 38.809" N	89° 21' 9.280" E
	19	26° 49' 34.173" N	89° 21' 6.859" E
	20	26° 49' 20.603" N	89° 20' 56.613" E
	21	26° 49' 16.126" N	89° 20' 54.244" E
	22	26° 49' 10.634" N	89° 20' 51.338" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	23	26° 49' 3.184" N	89° 20' 47.395" E
	24	26° 48' 48.395" N	89° 20' 41.092" E
	25	26° 48' 47.957" N	89° 20' 40.523" E
	26	26° 48' 46.503" N	89° 20' 40.110" E
	27	26° 48' 43.863" N	89° 20' 38.618" E
	28	26° 48' 43.227" N	89° 20' 38.328" E
	29	26° 48' 36.674" N	89° 20' 34.692" E
	30	26° 48' 30.191" N	89° 20' 20.783" E
	31	26° 48' 23.873" N	89° 20' 18.597" E
	32	26° 48' 22.674" N	89° 20' 18.845" E
	33	26° 48' 21.588" N	89° 20' 16.063" E
	34	26° 48' 19.587" N	89° 20' 12.286" E
	35	26° 48' 16.493" N	89° 20' 9.119" E
	36	26° 48' 13.559" N	89° 20' 5.668" E
	37	26° 48' 16.237" N	89° 20' 5.895" E
	38	26° 48' 16.093" N	89° 20' 4.225" E
	39	26° 48' 12.722" N	89° 20' 3.077" E
	40	26° 48' 11.904" N	89° 20' 2.798" E
	41	26° 48' 11.913" N	89° 20' 2.779" E
	42	26° 48' 11.362" N	89° 20' 2.577" E
	43	26° 48' 10.498" N	89° 20' 1.812" E
	44	26° 48' 9.686" N	89° 20' 1.048" E
	45	26° 48' 7.699" N	89° 19' 59.571" E
	46	26° 48' 7.208" N	89° 19' 58.066" E
	47	26° 48' 6.510" N	89° 19' 56.615" E
	48	26° 48' 4.733" N	89° 19' 54.912" E
	49	26° 48' 2.952" N	89° 19' 53.439" E
	50	26° 48' 0.800" N	89° 19' 52.590" E
	51	26° 47' 57.733" N	89° 19' 51.194" E
	52	26° 47' 54.108" N	89° 19' 49.443" E
	53	26° 47' 54.881" N	89° 19' 46.005" E
	54	26° 47' 53.229" N	89° 19' 45.654" E
	55	26° 47' 49.729" N	89° 19' 45.237" E
	56	26° 47' 47.793" N	89° 19' 43.761" E
	57	26° 47' 45.996" N	89° 19' 43.322" E
	58	26° 47' 44.464" N	89° 19' 42.371" E
	59	26° 47' 44.458" N	89° 19' 42.261" E
	60	26° 47' 42.409" N	89° 19' 42.329" E
	61	26° 47' 39.721" N	89° 19' 42.657" E
	62	26° 47' 35.994" N	89° 19' 43.501" E
	63	26° 47' 33.427" N	89° 19' 44.904" E
	64	26° 47' 32.170" N	89° 19' 46.028" E
	65	26° 47' 30.785" N	89° 19' 46.613" E
	66	26° 47' 29.619" N	89° 19' 46.435" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	67	26° 47' 28.391" N	89° 19' 45.874" E
	68	26° 47' 27.502" N	89° 19' 45.549" E
	69	26° 47' 25.179" N	89° 19' 44.659" E
	70	26° 47' 22.914" N	89° 19' 44.383" E
	71	26° 47' 21.829" N	89° 19' 43.441" E
	72	26° 47' 20.405" N	89° 19' 42.263" E
	73	26° 47' 19.195" N	89° 19' 40.552" E
	74	26° 47' 17.631" N	89° 19' 39.448" E
	75	26° 47' 15.795" N	89° 19' 38.184" E
	76	26° 47' 15.064" N	89° 19' 36.637" E
	77	26° 47' 16.313" N	89° 19' 35.973" E
	78	26° 47' 18.391" N	89° 19' 35.096" E
	79	26° 47' 20.179" N	89° 19' 35.056" E
	80	26° 47' 22.030" N	89° 19' 35.400" E
	81	26° 47' 25.192" N	89° 19' 35.465" E
	82	26° 47' 26.351" N	89° 19' 36.101" E
	83	26° 47' 27.566" N	89° 19' 37.505" E
	84	26° 47' 29.400" N	89° 19' 38.845" E
	85	26° 47' 30.838" N	89° 19' 39.258" E
	86	26° 47' 32.209" N	89° 19' 39.516" E
	87	26° 47' 34.547" N	89° 19' 39.487" E
	88	26° 47' 35.590" N	89° 19' 39.363" E
	89	26° 47' 35.130" N	89° 19' 37.506" E
	90	26° 47' 34.866" N	89° 19' 36.811" E
	91	26° 47' 33.577" N	89° 19' 35.789" E
	92	26° 47' 32.564" N	89° 19' 34.619" E
	93	26° 47' 31.278" N	89° 19' 33.367" E
	94	26° 47' 29.437" N	89° 19' 32.410" E
	95	26° 47' 27.058" N	89° 19' 30.752" E
	96	26° 47' 26.188" N	89° 19' 29.278" E
	97	26° 47' 24.982" N	89° 19' 27.338" E
	98	26° 47' 24.105" N	89° 19' 25.749" E
	99	26° 47' 24.224" N	89° 19' 23.740" E
	100	26° 47' 24.362" N	89° 19' 20.582" E
	101	26° 47' 28.638" N	89° 19' 21.914" E
	102	26° 47' 31.228" N	89° 19' 25.875" E
	103	26° 47' 34.409" N	89° 19' 26.438" E
	104	26° 47' 37.074" N	89° 19' 29.032" E
	105	26° 47' 39.364" N	89° 19' 30.926" E
	106	26° 47' 40.045" N	89° 19' 33.542" E
	107	26° 47' 41.555" N	89° 19' 33.870" E
	108	26° 47' 44.150" N	89° 19' 34.432" E
	109	26° 47' 45.752" N	89° 19' 35.333" E
	110	26° 47' 50.830" N	89° 19' 34.958" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	111	26° 47' 52.353" N	89° 19' 36.210" E
	112	26° 47' 53.337" N	89° 19' 35.943" E
	113	26° 47' 54.449" N	89° 19' 37.345" E
	114	26° 47' 55.157" N	89° 19' 38.222" E
	115	26° 47' 55.903" N	89° 19' 39.904" E
	116	26° 47' 56.755" N	89° 19' 41.358" E
	117	26° 47' 56.999" N	89° 19' 41.538" E
	118	26° 47' 56.979" N	89° 19' 41.580" E
	119	26° 48' 2.674" N	89° 19' 47.247" E
	120	26° 48' 3.049" N	89° 19' 47.428" E
	121	26° 48' 2.902" N	89° 19' 47.058" E
	122	26° 48' 7.246" N	89° 19' 46.342" E
	123	26° 48' 9.464" N	89° 19' 46.330" E
	124	26° 48' 10.688" N	89° 19' 47.160" E
	125	26° 48' 11.480" N	89° 19' 49.188" E
	126	26° 48' 12.229" N	89° 19' 50.697" E
	127	26° 48' 12.678" N	89° 19' 51.626" E
	128	26° 48' 12.709" N	89° 19' 52.834" E
	129	26° 48' 13.395" N	89° 19' 55.032" E
	130	26° 48' 14.586" N	89° 19' 57.872" E
	131	26° 48' 14.970" N	89° 19' 59.421" E
	132	26° 48' 17.946" N	89° 20' 1.294" E
	133	26° 48' 20.656" N	89° 20' 3.744" E
	134	26° 48' 23.110" N	89° 20' 6.093" E
	135	26° 48' 25.326" N	89° 20' 7.288" E
	136	26° 48' 28.738" N	89° 20' 8.891" E
	137	26° 48' 30.409" N	89° 20' 10.082" E
	138	26° 48' 32.372" N	89° 20' 10.985" E
	139	26° 48' 34.757" N	89° 20' 12.279" E
	140	26° 48' 38.022" N	89° 20' 12.346" E
	141	26° 48' 44.286" N	89° 20' 13.049" E
	142	26° 48' 45.831" N	89° 20' 13.177" E
	143	26° 48' 47.761" N	89° 20' 15.994" E
	144	26° 48' 50.206" N	89° 20' 18.918" E
	145	26° 48' 53.041" N	89° 20' 18.977" E
	146	26° 48' 55.950" N	89° 20' 19.803" E
	147	26° 48' 59.368" N	89° 20' 21.023" E
	148	26° 49' 1.134" N	89° 20' 20.611" E
	149	26° 49' 2.983" N	89° 20' 20.591" E
	150	26° 49' 3.739" N	89° 20' 20.041" E
	151	26° 49' 6.153" N	89° 20' 18.137" E
	152	26° 49' 12.822" N	89° 20' 17.675" E
	153	26° 49' 16.640" N	89° 20' 20.747" E
	154	26° 49' 21.853" N	89° 20' 23.848" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	155	26° 49' 30.279" N	89° 20' 27.614" E
	156	26° 49' 34.554" N	89° 20' 35.486" E
	157	26° 49' 41.542" N	89° 20' 35.271" E
	158	26° 49' 43.894" N	89° 20' 36.884" E
	159	26° 49' 45.192" N	89° 20' 38.565" E
	160	26° 49' 50.292" N	89° 20' 42.024" E
	161	26° 49' 55.388" N	89° 20' 45.722" E
	162	26° 49' 58.018" N	89° 20' 49.130" E
	163	26° 50' 2.698" N	89° 20' 51.981" E
	164	26° 50' 3.476" N	89° 20' 56.082" E
	165	26° 50' 4.078" N	89° 20' 57.560" E
	166	26° 50' 5.691" N	89° 21' 1.330" E
	167	26° 50' 8.744" N	89° 21' 3.836" E
	168	26° 50' 9.416" N	89° 21' 4.260" E
	169	26° 50' 13.323" N	89° 21' 8.575" E
	170	26° 50' 13.529" N	89° 21' 11.306" E
	171	26° 50' 10.627" N	89° 21' 10.097" E
	172	26° 50' 10.745" N	89° 21' 13.357" E
	173	26° 50' 11.849" N	89° 21' 19.320" E
	174	26° 50' 14.226" N	89° 21' 21.094" E
	175	26° 50' 17.138" N	89° 21' 21.729" E
	176	26° 50' 20.215" N	89° 21' 22.751" E
	177	26° 50' 25.610" N	89° 21' 29.305" E
	178	26° 50' 28.839" N	89° 21' 33.588" E
	179	26° 50' 31.690" N	89° 21' 35.638" E
	180	26° 50' 33.918" N	89° 21' 36.067" E
	181	26° 50' 35.411" N	89° 21' 35.195" E
	182	26° 50' 38.038" N	89° 21' 37.526" E
	183	26° 50' 38.077" N	89° 21' 38.392" E
	184	26° 50' 38.105" N	89° 21' 39.003" E
	185	26° 50' 38.636" N	89° 21' 38.991" E
	186	26° 50' 38.480" N	89° 21' 35.514" E
	187	26° 50' 40.526" N	89° 21' 35.197" E
	188	26° 50' 43.633" N	89° 21' 35.741" E
	189	26° 50' 45.001" N	89° 21' 37.446" E
	190	26° 50' 48.538" N	89° 21' 37.998" E
	191	26° 50' 48.950" N	89° 21' 39.085" E
	192	26° 50' 49.679" N	89° 21' 40.418" E
	193	26° 50' 51.860" N	89° 21' 38.546" E
	194	26° 50' 53.158" N	89° 21' 37.975" E
	195	26° 50' 55.854" N	89° 21' 37.432" E
	196	26° 50' 59.110" N	89° 21' 35.463" E
	197	26° 51' 0.417" N	89° 21' 34.412" E
	198	26° 51' 5.855" N	89° 21' 36.920" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	199	26° 51' 7.786" N	89° 21' 37.080" E
	200	26° 51' 8.685" N	89° 21' 41.172" E
	201	26° 51' 6.005" N	89° 21' 40.757" E
	202	26° 51' 3.543" N	89° 21' 40.226" E
	203	26° 51' 0.436" N	89° 21' 39.683" E
	204	26° 50' 56.987" N	89° 21' 40.330" E
	205	26° 50' 53.421" N	89° 21' 41.573" E
	206	26° 50' 49.956" N	89° 21' 43.178" E
	207	26° 50' 46.385" N	89° 21' 44.661" E
	208	26° 50' 42.527" N	89° 21' 44.102" E
AD_KC_TR_04	1	26° 50' 32.278" N	89° 21' 42.960" E
	2	26° 50' 30.141" N	89° 21' 41.212" E
	3	26° 50' 33.556" N	89° 21' 41.549" E
	4	26° 50' 36.902" N	89° 21' 41.906" E
	5	26° 50' 39.025" N	89° 21' 43.483" E
	6	26° 50' 41.650" N	89° 21' 45.838" E
	7	26° 50' 41.485" N	89° 21' 46.428" E
	8	26° 50' 37.283" N	89° 21' 46.519" E
	9	26° 50' 35.917" N	89° 21' 45.222" E
	10	26° 50' 34.419" N	89° 21' 44.877" E
AD_KC_TR_05A	1	26° 49' 47.727" N	89° 21' 13.938" E
	2	26° 49' 42.574" N	89° 21' 11.246" E
	3	26° 49' 43.937" N	89° 21' 11.168" E
	4	26° 49' 45.024" N	89° 21' 11.851" E
	5	26° 49' 46.112" N	89° 21' 11.035" E
	6	26° 49' 48.056" N	89° 21' 10.477" E
	7	26° 49' 50.212" N	89° 21' 10.018" E
	8	26° 49' 56.350" N	89° 21' 18.353" E
	9	26° 49' 53.276" N	89° 21' 16.779" E
AD_KC_TR_07	1	26° 47' 53.772" N	89° 20' 2.791" E
	2	26° 47' 52.916" N	89° 20' 1.567" E
	3	26° 47' 53.336" N	89° 20' 1.058" E
	4	26° 47' 53.610" N	89° 19' 56.983" E
	5	26° 47' 52.918" N	89° 19' 55.187" E
	6	26° 47' 51.951" N	89° 19' 54.363" E
	7	26° 47' 50.731" N	89° 19' 53.304" E
	8	26° 47' 49.462" N	89° 19' 52.071" E
	9	26° 47' 47.837" N	89° 19' 50.543" E
	10	26° 47' 45.996" N	89° 19' 49.586" E
	11	26° 47' 43.694" N	89° 19' 48.390" E
	12	26° 47' 40.989" N	89° 19' 46.668" E
	13	26° 47' 38.898" N	89° 19' 45.246" E
	14	26° 47' 39.315" N	89° 19' 44.967" E
	15	26° 47' 40.975" N	89° 19' 44.426" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	16	26° 47' 43.045" N	89° 19' 44.009" E
	17	26° 47' 44.746" N	89° 19' 44.043" E
	18	26° 47' 45.668" N	89° 19' 44.407" E
	19	26° 47' 47.099" N	89° 19' 45.241" E
	20	26° 47' 48.326" N	89° 19' 45.898" E
	21	26° 47' 49.305" N	89° 19' 45.918" E
	22	26° 47' 50.012" N	89° 19' 46.852" E
	23	26° 47' 51.507" N	89° 19' 46.883" E
	24	26° 47' 52.215" N	89° 19' 47.759" E
	25	26° 47' 52.902" N	89° 19' 49.842" E
	26	26° 47' 53.757" N	89° 19' 51.182" E
	27	26° 47' 55.447" N	89° 19' 51.906" E
	28	26° 47' 57.500" N	89° 19' 52.523" E
	29	26° 47' 59.867" N	89° 19' 52.858" E
	30	26° 48' 1.758" N	89° 19' 53.874" E
	31	26° 48' 3.639" N	89° 19' 55.579" E
	32	26° 48' 5.551" N	89° 19' 58.435" E
	33	26° 48' 6.647" N	89° 20' 0.813" E
	34	26° 48' 5.385" N	89° 20' 2.282" E
	35	26° 48' 3.621" N	89° 20' 2.878" E
	36	26° 48' 1.126" N	89° 20' 4.091" E
	37	26° 47' 55.141" N	89° 20' 4.199" E
AD_KC_TR_08	1	26° 47' 40.666" N	89° 20' 21.461" E
	2	26° 47' 32.369" N	89° 20' 18.787" E
	3	26° 47' 22.028" N	89° 20' 14.735" E
	4	26° 47' 9.743" N	89° 20' 9.921" E
	5	26° 47' 1.571" N	89° 20' 7.368" E
	6	26° 46' 49.485" N	89° 20' 3.593" E
	7	26° 46' 33.523" N	89° 20' 0.513" E
	8	26° 46' 19.771" N	89° 19' 54.539" E
	9	26° 46' 8.976" N	89° 19' 57.305" E
	10	26° 46' 1.988" N	89° 19' 54.488" E
	11	26° 45' 54.027" N	89° 19' 59.056" E
	12	26° 45' 45.608" N	89° 19' 50.296" E
	13	26° 45' 35.010" N	89° 19' 45.330" E
	14	26° 45' 33.171" N	89° 19' 45.520" E
	15	26° 45' 23.183" N	89° 19' 46.551" E
	16	26° 45' 13.125" N	89° 19' 45.891" E
	17	26° 45' 5.199" N	89° 19' 43.156" E
	18	26° 45' 0.919" N	89° 19' 41.383" E
	19	26° 45' 8.792" N	89° 19' 33.972" E
	20	26° 45' 17.091" N	89° 19' 34.227" E
	21	26° 45' 19.322" N	89° 19' 36.570" E
	22	26° 45' 19.479" N	89° 19' 39.561" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	23	26° 45' 23.524" N	89° 19' 44.469" E
	24	26° 45' 27.987" N	89° 19' 44.386" E
	25	26° 45' 28.697" N	89° 19' 43.021" E
	26	26° 45' 33.517" N	89° 19' 42.885" E
	27	26° 45' 33.572" N	89° 19' 43.456" E
	28	26° 45' 36.052" N	89° 19' 42.908" E
	29	26° 45' 38.945" N	89° 19' 43.446" E
	30	26° 45' 42.159" N	89° 19' 43.990" E
	31	26° 45' 45.032" N	89° 19' 45.725" E
	32	26° 45' 48.248" N	89° 19' 46.149" E
	33	26° 45' 51.886" N	89° 19' 47.061" E
	34	26° 45' 56.265" N	89° 19' 48.707" E
	35	26° 46' 1.050" N	89° 19' 48.225" E
	36	26° 46' 1.204" N	89° 19' 47.232" E
	37	26° 46' 3.354" N	89° 19' 46.127" E
	38	26° 46' 8.014" N	89° 19' 42.928" E
	39	26° 46' 9.701" N	89° 19' 41.313" E
	40	26° 46' 14.863" N	89° 19' 45.082" E
	41	26° 46' 15.843" N	89° 19' 45.925" E
	42	26° 46' 19.634" N	89° 19' 48.038" E
	43	26° 46' 20.011" N	89° 19' 49.378" E
	44	26° 46' 22.604" N	89° 19' 50.581" E
	45	26° 46' 26.520" N	89° 19' 50.814" E
	46	26° 46' 36.470" N	89° 19' 52.902" E
	47	26° 46' 37.720" N	89° 19' 55.305" E
	48	26° 46' 39.416" N	89° 19' 56.407" E
	49	26° 46' 42.183" N	89° 19' 55.391" E
	50	26° 46' 46.448" N	89° 19' 55.325" E
	51	26° 46' 46.548" N	89° 19' 57.625" E
	52	26° 46' 51.428" N	89° 19' 57.725" E
	53	26° 46' 51.445" N	89° 19' 56.729" E
	54	26° 46' 50.081" N	89° 19' 56.012" E
	55	26° 46' 48.045" N	89° 19' 54.361" E
	56	26° 46' 47.987" N	89° 19' 53.747" E
	57	26° 46' 49.503" N	89° 19' 53.548" E
	58	26° 46' 50.948" N	89° 19' 53.501" E
	59	26° 46' 53.551" N	89° 19' 54.091" E
	60	26° 46' 54.915" N	89° 19' 54.808" E
	61	26° 46' 56.478" N	89° 19' 55.913" E
	62	26° 46' 58.304" N	89° 19' 57.789" E
	63	26° 47' 0.282" N	89° 19' 58.749" E
	64	26° 47' 1.922" N	89° 19' 59.395" E
	65	26° 47' 3.154" N	89° 19' 59.727" E
	66	26° 47' 4.177" N	89° 20' 0.284" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	67	26° 47' 5.823" N	89° 20' 0.548" E
	68	26° 47' 6.039" N	89° 19' 59.939" E
	69	26° 47' 4.886" N	89° 19' 58.996" E
	70	26° 47' 3.137" N	89° 19' 56.585" E
	71	26° 47' 2.606" N	89° 19' 55.425" E
	72	26° 47' 4.194" N	89° 19' 55.074" E
	73	26° 47' 6.322" N	89° 19' 55.271" E
	74	26° 47' 9.559" N	89° 19' 54.729" E
	75	26° 47' 12.783" N	89° 19' 54.675" E
	76	26° 47' 13.898" N	89° 19' 55.277" E
	77	26° 47' 15.740" N	89° 19' 54.211" E
	78	26° 47' 15.738" N	89° 19' 54.197" E
	79	26° 47' 15.763" N	89° 19' 54.197" E
	80	26° 47' 15.798" N	89° 19' 54.177" E
	81	26° 47' 22.057" N	89° 19' 52.046" E
	82	26° 47' 25.499" N	89° 19' 51.810" E
	83	26° 47' 28.166" N	89° 19' 52.708" E
	84	26° 47' 31.024" N	89° 19' 54.528" E
	85	26° 47' 32.999" N	89° 19' 55.718" E
	86	26° 47' 36.243" N	89° 19' 59.156" E
	87	26° 47' 37.293" N	89° 19' 59.847" E
	88	26° 47' 37.150" N	89° 20' 0.995" E
	89	26° 47' 38.208" N	89° 20' 3.545" E
	90	26° 47' 39.177" N	89° 20' 4.733" E
	91	26° 47' 40.115" N	89° 20' 6.208" E
	92	26° 47' 41.606" N	89° 20' 7.541" E
	93	26° 47' 42.562" N	89° 20' 7.944" E
	94	26° 47' 44.971" N	89° 20' 7.840" E
	95	26° 47' 47.727" N	89° 20' 7.466" E
	96	26° 47' 54.605" N	89° 20' 7.367" E
	97	26° 47' 57.400" N	89° 20' 7.305" E
	98	26° 47' 59.880" N	89° 20' 6.757" E
	99	26° 48' 2.157" N	89° 20' 5.486" E
	100	26° 48' 6.249" N	89° 20' 4.972" E
	101	26° 48' 9.668" N	89° 20' 6.119" E
	102	26° 48' 11.248" N	89° 20' 8.067" E
	103	26° 48' 12.941" N	89° 20' 9.659" E
	104	26° 48' 14.516" N	89° 20' 11.846" E
	105	26° 48' 16.430" N	89° 20' 13.083" E
	106	26° 48' 18.337" N	89° 20' 14.679" E
	107	26° 48' 19.173" N	89° 20' 16.133" E
	108	26° 48' 20.055" N	89° 20' 18.548" E
	109	26° 48' 20.431" N	89° 20' 19.310" E
	110	26° 48' 18.701" N	89° 20' 19.668" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	111	26° 48' 7.279" N	89° 20' 25.673" E
	112	26° 48' 2.748" N	89° 20' 25.508" E
	113	26° 47' 52.008" N	89° 20' 25.116" E
AD_KC_TR_09	1	26° 47' 51.711" N	89° 20' 5.795" E
	2	26° 47' 47.640" N	89° 20' 5.597" E
	3	26° 47' 47.215" N	89° 20' 6.335" E
	4	26° 47' 42.319" N	89° 20' 6.120" E
	5	26° 47' 41.965" N	89° 20' 5.710" E
	6	26° 47' 41.163" N	89° 20' 4.315" E
	7	26° 47' 40.332" N	89° 20' 1.539" E
	8	26° 47' 39.153" N	89° 19' 57.952" E
	9	26° 47' 37.407" N	89° 19' 54.353" E
	10	26° 47' 36.050" N	89° 19' 52.199" E
	11	26° 47' 35.191" N	89° 19' 51.147" E
	12	26° 47' 33.849" N	89° 19' 51.177" E
	13	26° 47' 32.170" N	89° 19' 49.821" E
	14	26° 47' 32.237" N	89° 19' 48.845" E
	15	26° 47' 32.718" N	89° 19' 47.878" E
	16	26° 47' 33.710" N	89° 19' 47.094" E
	17	26° 47' 34.969" N	89° 19' 45.798" E
	18	26° 47' 36.160" N	89° 19' 45.535" E
	19	26° 47' 37.139" N	89° 19' 45.612" E
	20	26° 47' 38.313" N	89° 19' 46.326" E
	21	26° 47' 39.277" N	89° 19' 47.322" E
	22	26° 47' 40.295" N	89° 19' 48.148" E
	23	26° 47' 43.411" N	89° 19' 49.936" E
	24	26° 47' 45.505" N	89° 19' 51.185" E
	25	26° 47' 47.197" N	89° 19' 51.795" E
	26	26° 47' 48.213" N	89° 19' 52.735" E
	27	26° 47' 49.481" N	89° 19' 54.025" E
	28	26° 47' 50.395" N	89° 19' 54.906" E
	29	26° 47' 50.996" N	89° 19' 56.010" E
	30	26° 47' 51.606" N	89° 19' 56.540" E
	31	26° 47' 51.384" N	89° 19' 57.512" E
	32	26° 47' 51.236" N	89° 20' 0.211" E
	33	26° 47' 51.758" N	89° 20' 2.980" E
	34	26° 47' 52.877" N	89° 20' 3.922" E
	35	26° 47' 53.314" N	89° 20' 5.540" E
AD_KC_TR_10	1	26° 47' 12.094" N	89° 19' 49.985" E
	2	26° 47' 9.762" N	89° 19' 49.631" E
	3	26° 47' 6.484" N	89° 19' 48.261" E
	4	26° 47' 6.288" N	89° 19' 47.644" E
	5	26° 47' 6.235" N	89° 19' 46.647" E
	6	26° 47' 7.072" N	89° 19' 45.975" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	7	26° 47' 8.042" N	89° 19' 45.535" E
	8	26° 47' 9.350" N	89° 19' 45.408" E
	9	26° 47' 10.590" N	89° 19' 45.281" E
	10	26° 47' 10.525" N	89° 19' 45.049" E
	11	26° 47' 9.165" N	89° 19' 44.102" E
	12	26° 47' 7.656" N	89° 19' 43.918" E
	13	26° 47' 6.263" N	89° 19' 44.962" E
	14	26° 47' 5.147" N	89° 19' 45.936" E
	15	26° 47' 3.774" N	89° 19' 45.754" E
	16	26° 47' 2.470" N	89° 19' 45.651" E
	17	26° 47' 0.149" N	89° 19' 44.608" E
	18	26° 47' 0.305" N	89° 19' 43.461" E
	19	26° 47' 0.866" N	89° 19' 42.783" E
	20	26° 47' 1.969" N	89° 19' 42.653" E
	21	26° 47' 3.965" N	89° 19' 42.540" E
	22	26° 47' 5.957" N	89° 19' 42.657" E
	23	26° 47' 9.897" N	89° 19' 41.435" E
	24	26° 47' 11.076" N	89° 19' 40.846" E
	25	26° 47' 12.542" N	89° 19' 39.497" E
	26	26° 47' 14.204" N	89° 19' 38.765" E
	27	26° 47' 15.085" N	89° 19' 39.549" E
	28	26° 47' 16.570" N	89° 19' 41.265" E
	29	26° 47' 17.715" N	89° 19' 42.744" E
	30	26° 47' 19.613" N	89° 19' 44.392" E
	31	26° 47' 21.856" N	89° 19' 45.970" E
	32	26° 47' 20.118" N	89° 19' 47.161" E
	33	26° 47' 17.907" N	89° 19' 47.805" E
	34	26° 47' 16.718" N	89° 19' 49.007" E
	35	26° 47' 14.987" N	89° 19' 49.738" E
AD_KC_TR_12_14	1	26° 46' 59.506" N	89° 19' 40.898" E
	2	26° 46' 55.423" N	89° 19' 41.446" E
	3	26° 46' 55.710" N	89° 19' 42.774" E
	4	26° 46' 56.117" N	89° 19' 43.127" E
	5	26° 46' 57.246" N	89° 19' 43.495" E
	6	26° 46' 57.233" N	89° 19' 44.242" E
	7	26° 46' 56.191" N	89° 19' 44.910" E
	8	26° 46' 54.183" N	89° 19' 44.696" E
	9	26° 46' 52.847" N	89° 19' 44.382" E
	10	26° 46' 52.245" N	89° 19' 43.335" E
	11	26° 46' 51.131" N	89° 19' 42.106" E
	12	26° 46' 49.039" N	89° 19' 40.741" E
	13	26° 46' 48.123" N	89° 19' 39.976" E
	14	26° 46' 46.381" N	89° 19' 39.308" E
	15	26° 46' 46.021" N	89° 19' 39.276" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	16	26° 46' 44.570" N	89° 19' 40.324" E
	17	26° 46' 36.374" N	89° 19' 40.099" E
	18	26° 46' 32.999" N	89° 19' 38.307" E
	19	26° 46' 29.866" N	89° 19' 37.496" E
	20	26° 46' 27.524" N	89° 19' 35.667" E
	21	26° 46' 25.311" N	89° 19' 35.392" E
	22	26° 46' 18.684" N	89° 19' 35.345" E
	23	26° 46' 18.768" N	89° 19' 34.942" E
	24	26° 46' 20.000" N	89° 19' 33.836" E
	25	26° 46' 21.530" N	89° 19' 32.795" E
	26	26° 46' 21.311" N	89° 19' 31.107" E
	27	26° 46' 23.891" N	89° 19' 30.766" E
	28	26° 46' 27.929" N	89° 19' 29.872" E
	29	26° 46' 31.842" N	89° 19' 30.239" E
	30	26° 46' 32.650" N	89° 19' 31.289" E
	31	26° 46' 35.638" N	89° 19' 31.523" E
	32	26° 46' 38.090" N	89° 19' 32.244" E
	33	26° 46' 39.179" N	89° 19' 31.864" E
	34	26° 46' 42.844" N	89° 19' 31.708" E
	35	26° 46' 46.144" N	89° 19' 31.718" E
	36	26° 46' 47.115" N	89° 19' 32.255" E
	37	26° 46' 48.445" N	89° 19' 32.972" E
	38	26° 46' 49.156" N	89° 19' 33.618" E
	39	26° 46' 50.737" N	89° 19' 34.685" E
	40	26° 46' 52.076" N	89° 19' 34.827" E
	41	26° 46' 54.027" N	89° 19' 35.384" E
	42	26° 46' 55.311" N	89° 19' 35.698" E
	43	26° 46' 56.892" N	89° 19' 36.764" E
	44	26° 46' 57.970" N	89° 19' 37.074" E
	45	26° 46' 59.173" N	89° 19' 36.064" E
	46	26° 47' 0.060" N	89° 19' 35.450" E
	47	26° 47' 1.053" N	89° 19' 34.666" E
	48	26° 47' 2.823" N	89° 19' 33.610" E
	49	26° 47' 4.274" N	89° 19' 33.237" E
	50	26° 47' 5.555" N	89° 19' 33.723" E
	51	26° 47' 7.044" N	89° 19' 34.156" E
	52	26° 47' 8.487" N	89° 19' 34.185" E
	53	26° 47' 9.976" N	89° 19' 34.618" E
	54	26° 47' 11.621" N	89° 19' 34.939" E
	55	26° 47' 12.433" N	89° 19' 35.702" E
	56	26° 47' 11.796" N	89° 19' 36.839" E
	57	26° 47' 11.081" N	89° 19' 36.422" E
	58	26° 47' 8.454" N	89° 19' 36.196" E
	59	26° 47' 6.900" N	89° 19' 36.624" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	60	26° 47' 5.534" N	89° 19' 38.147" E
	61	26° 47' 4.054" N	89° 19' 40.301" E
	62	26° 47' 2.290" N	89° 19' 40.954" E
AD_KC_TR_13_14	1	26° 47' 1.490" N	89° 19' 55.074" E
	2	26° 46' 58.970" N	89° 19' 54.678" E
	3	26° 46' 59.289" N	89° 19' 54.110" E
	4	26° 46' 55.995" N	89° 19' 53.698" E
	5	26° 46' 53.066" N	89° 19' 53.006" E
	6	26° 46' 51.441" N	89° 19' 51.479" E
	7	26° 46' 50.000" N	89° 19' 51.277" E
	8	26° 46' 47.718" N	89° 19' 52.035" E
	9	26° 46' 47.495" N	89° 19' 53.064" E
	10	26° 46' 27.895" N	89° 19' 50.021" E
	11	26° 46' 23.997" N	89° 19' 49.420" E
	12	26° 46' 23.600" N	89° 19' 48.458" E
	13	26° 46' 22.691" N	89° 19' 47.290" E
	14	26° 46' 20.451" N	89° 19' 45.520" E
	15	26° 46' 18.348" N	89° 19' 43.965" E
	16	26° 46' 13.578" N	89° 19' 41.650" E
	17	26° 46' 11.181" N	89° 19' 38.441" E
	18	26° 46' 10.820" N	89° 19' 36.854" E
	19	26° 46' 11.340" N	89° 19' 36.577" E
	20	26° 46' 14.960" N	89° 19' 37.556" E
	21	26° 46' 18.229" N	89° 19' 37.431" E
	22	26° 46' 21.157" N	89° 19' 37.108" E
	23	26° 46' 25.399" N	89° 19' 36.289" E
	24	26° 46' 27.185" N	89° 19' 37.475" E
	25	26° 46' 30.241" N	89° 19' 39.835" E
	26	26° 46' 34.339" N	89° 19' 41.499" E
	27	26° 46' 36.986" N	89° 19' 43.200" E
	28	26° 46' 37.290" N	89° 19' 42.421" E
	29	26° 46' 40.137" N	89° 19' 41.761" E
	30	26° 46' 45.424" N	89° 19' 41.725" E
	31	26° 46' 49.403" N	89° 19' 42.812" E
	32	26° 46' 52.131" N	89° 19' 47.183" E
	33	26° 46' 53.257" N	89° 19' 47.666" E
	34	26° 46' 54.539" N	89° 19' 48.152" E
	35	26° 46' 55.318" N	89° 19' 47.823" E
	36	26° 46' 55.171" N	89° 19' 47.360" E
	37	26° 46' 54.362" N	89° 19' 46.367" E
	38	26° 46' 58.229" N	89° 19' 46.388" E
	39	26° 46' 59.828" N	89° 19' 46.421" E
	40	26° 47' 0.909" N	89° 19' 46.558" E
	41	26° 47' 1.727" N	89° 19' 46.977" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	42	26° 47' 2.645" N	89° 19' 47.570" E
	43	26° 47' 3.407" N	89° 19' 48.275" E
	44	26° 47' 5.856" N	89° 19' 49.934" E
	45	26° 47' 8.052" N	89° 19' 51.243" E
	46	26° 47' 9.797" N	89° 19' 51.739" E
	47	26° 47' 11.808" N	89° 19' 51.780" E
	48	26° 47' 12.161" N	89° 19' 52.247" E
	49	26° 47' 11.061" N	89° 19' 53.316" E
	50	26° 47' 7.965" N	89° 19' 53.368" E
	51	26° 47' 7.745" N	89° 19' 54.225" E
	52	26° 47' 5.266" N	89° 19' 54.404" E
	53	26° 47' 1.920" N	89° 19' 54.049" E
AD_KC_TR_15	1	26° 45' 50.284" N	89° 19' 26.404" E
	2	26° 45' 50.034" N	89° 19' 25.794" E
	3	26° 45' 51.528" N	89° 19' 25.226" E
	4	26° 45' 52.982" N	89° 19' 23.730" E
	5	26° 45' 53.548" N	89° 19' 21.538" E
	6	26° 46' 2.994" N	89° 19' 21.894" E
	7	26° 46' 9.804" N	89° 19' 24.906" E
	8	26° 46' 17.872" N	89° 19' 29.839" E
	9	26° 46' 20.118" N	89° 19' 31.264" E
	10	26° 46' 20.147" N	89° 19' 31.260" E
	11	26° 46' 20.338" N	89° 19' 32.159" E
	12	26° 46' 19.355" N	89° 19' 33.595" E
	13	26° 46' 18.527" N	89° 19' 34.296" E
	14	26° 46' 16.962" N	89° 19' 34.686" E
	15	26° 46' 9.813" N	89° 19' 33.640" E
	16	26° 46' 8.874" N	89° 19' 33.996" E
	17	26° 46' 4.347" N	89° 19' 27.438" E
	18	26° 46' 1.127" N	89° 19' 25.706" E
	19	26° 45' 57.866" N	89° 19' 25.474" E
	20	26° 45' 57.835" N	89° 19' 24.576" E
	21	26° 45' 56.455" N	89° 19' 24.336" E
	22	26° 45' 55.579" N	89° 19' 24.542" E
	23	26° 45' 53.961" N	89° 19' 25.441" E
AD_KC_TR_16_17	1	26° 45' 19.198" N	89° 19' 33.595" E
	2	26° 45' 18.881" N	89° 19' 31.961" E
	3	26° 45' 21.746" N	89° 19' 30.200" E
	4	26° 45' 25.304" N	89° 19' 28.166" E
	5	26° 45' 27.976" N	89° 19' 27.741" E
	6	26° 45' 31.247" N	89° 19' 27.425" E
	7	26° 45' 33.577" N	89° 19' 26.898" E
	8	26° 45' 35.052" N	89° 19' 26.066" E
	9	26° 45' 36.625" N	89° 19' 24.470" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	10	26° 45' 38.098" N	89° 19' 23.734" E
	11	26° 45' 40.326" N	89° 19' 24.163" E
	12	26° 45' 42.193" N	89° 19' 25.637" E
	13	26° 45' 44.302" N	89° 19' 28.074" E
	14	26° 45' 46.771" N	89° 19' 29.560" E
	15	26° 45' 49.401" N	89° 19' 31.625" E
	16	26° 45' 51.807" N	89° 19' 31.674" E
	17	26° 45' 52.202" N	89° 19' 27.940" E
	18	26° 45' 55.452" N	89° 19' 26.857" E
	19	26° 45' 59.538" N	89° 19' 30.344" E
	20	26° 46' 4.383" N	89° 19' 30.418" E
	21	26° 46' 5.279" N	89° 19' 31.424" E
	22	26° 46' 7.813" N	89° 19' 36.225" E
	23	26° 46' 8.115" N	89° 19' 38.422" E
	24	26° 46' 8.355" N	89° 19' 40.909" E
	25	26° 46' 5.385" N	89° 19' 42.388" E
	26	26° 46' 3.564" N	89° 19' 43.309" E
	27	26° 46' 2.341" N	89° 19' 44.529" E
	28	26° 46' 0.143" N	89° 19' 46.870" E
	29	26° 45' 56.838" N	89° 19' 47.109" E
	30	26° 45' 54.983" N	89° 19' 46.995" E
	31	26° 45' 53.274" N	89° 19' 46.424" E
	32	26° 45' 47.733" N	89° 19' 44.625" E
	33	26° 45' 43.424" N	89° 19' 43.235" E
	34	26° 45' 42.201" N	89° 19' 42.291" E
	35	26° 45' 41.734" N	89° 19' 41.439" E
	36	26° 45' 37.406" N	89° 19' 41.197" E
	37	26° 45' 33.406" N	89° 19' 41.882" E
	38	26° 45' 31.546" N	89° 19' 42.074" E
	39	26° 45' 30.074" N	89° 19' 41.285" E
	40	26° 45' 29.034" N	89° 19' 41.839" E
	41	26° 45' 25.153" N	89° 19' 42.621" E
	42	26° 45' 23.972" N	89° 19' 41.257" E
	43	26° 45' 22.713" N	89° 19' 39.412" E
	44	26° 45' 21.967" N	89° 19' 37.673" E
	45	26° 45' 21.071" N	89° 19' 34.686" E
AD_KC_TR_18	1	26° 45' 50.394" N	89° 19' 22.431" E
	2	26° 45' 49.531" N	89° 19' 23.128" E
	3	26° 45' 49.535" N	89° 19' 26.087" E
	4	26° 45' 48.496" N	89° 19' 26.696" E
	5	26° 45' 45.746" N	89° 19' 26.640" E
	6	26° 45' 44.048" N	89° 19' 25.361" E
	7	26° 45' 43.037" N	89° 19' 24.095" E
	8	26° 45' 43.116" N	89° 19' 24.037" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	9	26° 45' 42.184" N	89° 19' 23.424" E
	10	26° 45' 41.631" N	89° 19' 22.551" E
	11	26° 45' 42.284" N	89° 19' 20.496" E
	12	26° 45' 43.010" N	89° 19' 20.281" E
	13	26° 45' 44.669" N	89° 19' 19.740" E
	14	26° 45' 47.806" N	89° 19' 20.264" E
	15	26° 45' 49.971" N	89° 19' 20.365" E
	16	26° 45' 52.139" N	89° 19' 21.179" E
AD_KC_TR_19	1	26° 45' 1.429" N	89° 19' 27.462" E
	2	26° 44' 57.271" N	89° 19' 25.232" E
	3	26° 44' 56.254" N	89° 19' 24.369" E
	4	26° 44' 58.596" N	89° 19' 24.110" E
	5	26° 44' 59.566" N	89° 19' 23.670" E
	6	26° 44' 59.864" N	89° 19' 22.298" E
	7	26° 44' 58.930" N	89° 19' 20.517" E
	8	26° 44' 55.631" N	89° 19' 20.450" E
	9	26° 44' 54.099" N	89° 19' 21.568" E
	10	26° 44' 52.774" N	89° 19' 22.690" E
	11	26° 44' 51.207" N	89° 19' 21.815" E
	12	26° 44' 50.456" N	89° 19' 21.494" E
	13	26° 44' 48.571" N	89° 19' 19.004" E
	14	26° 44' 47.120" N	89° 19' 15.222" E
	15	26° 44' 44.749" N	89° 19' 13.029" E
	16	26° 44' 41.175" N	89° 19' 12.956" E
	17	26° 44' 38.137" N	89° 19' 13.661" E
	18	26° 44' 35.849" N	89° 19' 14.840" E
	19	26° 44' 33.440" N	89° 19' 14.944" E
	20	26° 44' 33.388" N	89° 19' 13.947" E
	21	26° 44' 34.473" N	89° 19' 12.781" E
	22	26° 44' 42.981" N	89° 19' 12.724" E
	23	26° 44' 45.477" N	89° 19' 11.519" E
	24	26° 44' 53.842" N	89° 19' 12.065" E
	25	26° 44' 56.797" N	89° 19' 12.201" E
	26	26° 45' 1.329" N	89° 19' 12.600" E
	27	26° 45' 4.771" N	89° 19' 12.363" E
	28	26° 45' 6.391" N	89° 19' 14.235" E
	29	26° 45' 7.171" N	89° 19' 17.008" E
	30	26° 45' 8.643" N	89° 19' 19.489" E
	31	26° 45' 10.060" N	89° 19' 21.126" E
	32	26° 45' 11.032" N	89° 19' 21.650" E
	33	26° 45' 11.090" N	89° 19' 21.224" E
	34	26° 45' 12.628" N	89° 19' 19.723" E
	35	26° 45' 14.809" N	89° 19' 20.917" E
	36	26° 45' 15.760" N	89° 19' 21.625" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	37	26° 45' 17.690" N	89° 19' 21.358" E
	38	26° 45' 18.730" N	89° 19' 20.843" E
	39	26° 45' 19.982" N	89° 19' 19.949" E
	40	26° 45' 21.922" N	89° 19' 19.070" E
	41	26° 45' 24.404" N	89° 19' 18.660" E
	42	26° 45' 29.195" N	89° 19' 20.060" E
	43	26° 45' 33.937" N	89° 19' 20.233" E
	44	26° 45' 33.992" N	89° 19' 21.077" E
	45	26° 45' 34.089" N	89° 19' 21.109" E
	46	26° 45' 34.578" N	89° 19' 23.922" E
	47	26° 45' 34.003" N	89° 19' 24.601" E
	48	26° 45' 32.686" N	89° 19' 25.263" E
	49	26° 45' 27.037" N	89° 19' 25.838" E
	50	26° 45' 24.291" N	89° 19' 25.552" E
	51	26° 45' 21.294" N	89° 19' 28.019" E
	52	26° 45' 16.979" N	89° 19' 31.148" E
	53	26° 45' 15.587" N	89° 19' 32.192" E
	54	26° 45' 10.984" N	89° 19' 32.158" E
	55	26° 45' 7.745" N	89° 19' 32.339" E
	56	26° 45' 6.930" N	89° 19' 31.710" E
	57	26° 45' 5.434" N	89° 19' 30.684" E
	58	26° 45' 3.327" N	89° 19' 29.185" E
AD_KC_TR_21	1	26° 44' 49.161" N	89° 19' 40.341" E
	2	26° 44' 40.247" N	89° 19' 40.766" E
	3	26° 44' 31.278" N	89° 19' 39.592" E
	4	26° 44' 24.807" N	89° 19' 36.896" E
	5	26° 44' 20.594" N	89° 19' 33.505" E
	6	26° 44' 19.296" N	89° 19' 33.019" E
	7	26° 44' 17.933" N	89° 19' 32.225" E
	8	26° 44' 16.711" N	89° 19' 31.281" E
	9	26° 44' 15.571" N	89° 19' 29.496" E
	10	26° 44' 14.635" N	89° 19' 27.869" E
	11	26° 44' 13.221" N	89° 19' 26.079" E
	12	26° 44' 13.649" N	89° 19' 25.092" E
	13	26° 44' 15.243" N	89° 19' 24.358" E
	14	26° 44' 17.529" N	89° 19' 23.333" E
	15	26° 44' 19.472" N	89° 19' 22.300" E
	16	26° 44' 21.828" N	89° 19' 21.199" E
	17	26° 44' 24.032" N	89° 19' 20.937" E
	18	26° 44' 25.890" N	89° 19' 20.899" E
	19	26° 44' 27.346" N	89° 19' 20.162" E
	20	26° 44' 29.007" N	89° 19' 19.507" E
	21	26° 44' 29.102" N	89° 19' 17.900" E
	22	26° 44' 30.006" N	89° 19' 17.306" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	23	26° 44' 33.037" N	89° 19' 16.984" E
	24	26° 44' 34.694" N	89° 19' 16.559" E
	25	26° 44' 36.622" N	89° 19' 16.445" E
	26	26° 44' 38.830" N	89° 19' 15.953" E
	27	26° 44' 40.629" N	89° 19' 15.300" E
	28	26° 44' 42.217" N	89° 19' 14.873" E
	29	26° 44' 44.554" N	89° 19' 14.997" E
	30	26° 44' 45.435" N	89° 19' 15.781" E
	31	26° 44' 47.441" N	89° 19' 19.269" E
	32	26° 44' 48.836" N	89° 19' 22.208" E
	33	26° 44' 48.494" N	89° 19' 22.542" E
	34	26° 44' 55.017" N	89° 19' 26.929" E
	35	26° 44' 56.664" N	89° 19' 27.116" E
	36	26° 44' 57.746" N	89° 19' 28.210" E
	37	26° 44' 59.248" N	89° 19' 28.930" E
	38	26° 45' 0.404" N	89° 19' 29.719" E
	39	26° 45' 1.491" N	89° 19' 30.508" E
	40	26° 45' 2.783" N	89° 19' 31.376" E
	41	26° 45' 3.587" N	89° 19' 32.695" E
	42	26° 45' 5.512" N	89° 19' 32.734" E
	43	26° 45' 5.693" N	89° 19' 34.270" E
	44	26° 45' 3.894" N	89° 19' 34.922" E
	45	26° 45' 2.639" N	89° 19' 35.969" E
	46	26° 45' 1.022" N	89° 19' 38.158" E
	47	26° 44' 59.193" N	89° 19' 40.648" E
	48	26° 44' 59.181" N	89° 19' 40.662" E
	49	26° 44' 56.268" N	89° 19' 39.456" E
AD_KC_TR_22	1	26° 44' 20.550" N	89° 19' 18.857" E
	2	26° 44' 17.762" N	89° 19' 18.258" E
	3	26° 44' 21.457" N	89° 19' 17.320" E
	4	26° 44' 22.141" N	89° 19' 16.489" E
	5	26° 44' 22.725" N	89° 19' 16.221" E
	6	26° 44' 24.821" N	89° 19' 14.221" E
	7	26° 44' 30.592" N	89° 19' 13.337" E
	8	26° 44' 29.358" N	89° 19' 14.287" E
	9	26° 44' 28.531" N	89° 19' 14.424" E
	10	26° 44' 26.870" N	89° 19' 15.079" E
	11	26° 44' 24.855" N	89° 19' 16.340" E
	12	26° 44' 22.911" N	89° 19' 17.450" E
AD_KC_TR_25_24_27	1	26° 43' 27.838" N	89° 19' 38.483" E
	2	26° 43' 21.398" N	89° 19' 43.708" E
	3	26° 43' 20.292" N	89° 19' 44.605" E
	4	26° 43' 7.954" N	89° 19' 51.619" E
	5	26° 42' 54.714" N	89° 19' 51.988" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	6	26° 42' 41.169" N	89° 19' 50.670" E
	7	26° 42' 33.110" N	89° 19' 49.456" E
	8	26° 42' 30.380" N	89° 19' 49.115" E
	9	26° 42' 28.968" N	89° 19' 47.698" E
	10	26° 42' 29.102" N	89° 19' 45.806" E
	11	26° 42' 33.288" N	89° 19' 42.158" E
	12	26° 42' 34.967" N	89° 19' 43.571" E
	13	26° 42' 39.748" N	89° 19' 41.371" E
	14	26° 42' 41.120" N	89° 19' 41.861" E
	15	26° 42' 42.378" N	89° 19' 43.598" E
	16	26° 42' 45.039" N	89° 19' 43.843" E
	17	26° 42' 46.934" N	89° 19' 43.595" E
	18	26° 42' 47.738" N	89° 19' 42.284" E
	19	26° 42' 49.479" N	89° 19' 40.392" E
	20	26° 42' 52.797" N	89° 19' 37.301" E
	21	26° 42' 59.014" N	89° 19' 37.017" E
	22	26° 43' 2.991" N	89° 19' 38.363" E
	23	26° 43' 4.305" N	89° 19' 39.837" E
	24	26° 43' 5.051" N	89° 19' 39.202" E
	25	26° 43' 10.496" N	89° 19' 34.259" E
	26	26° 43' 14.411" N	89° 19' 34.568" E
	27	26° 43' 16.513" N	89° 19' 33.970" E
	28	26° 43' 19.979" N	89° 19' 33.351" E
	29	26° 43' 24.571" N	89° 19' 33.272" E
	30	26° 43' 24.298" N	89° 19' 34.185" E
	31	26° 43' 24.921" N	89° 19' 35.044" E
	32	26° 43' 27.309" N	89° 19' 35.156" E
AD_KC_TR_26_27_28_29	1	26° 41' 8.137" N	89° 19' 38.508" E
	2	26° 41' 1.677" N	89° 19' 41.001" E
	3	26° 40' 57.918" N	89° 19' 43.943" E
	4	26° 40' 54.192" N	89° 19' 47.164" E
	5	26° 40' 53.599" N	89° 19' 47.702" E
	6	26° 40' 49.511" N	89° 19' 51.410" E
	7	26° 40' 45.394" N	89° 19' 55.532" E
	8	26° 40' 37.516" N	89° 19' 56.864" E
	9	26° 40' 31.440" N	89° 19' 57.860" E
	10	26° 40' 31.450" N	89° 19' 57.768" E
	11	26° 40' 31.884" N	89° 19' 56.476" E
	12	26° 40' 33.554" N	89° 19' 55.285" E
	13	26° 40' 35.563" N	89° 19' 54.408" E
	14	26° 40' 36.965" N	89° 19' 52.752" E
	15	26° 40' 40.420" N	89° 19' 49.941" E
	16	26° 40' 50.776" N	89° 19' 47.472" E
	17	26° 40' 54.226" N	89° 19' 46.777" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	18	26° 41' 1.277" N	89° 19' 34.971" E
	19	26° 41' 3.227" N	89° 19' 31.375" E
	20	26° 41' 7.764" N	89° 19' 27.257" E
	21	26° 41' 5.792" N	89° 19' 21.666" E
	22	26° 40' 56.835" N	89° 19' 22.729" E
	23	26° 40' 55.140" N	89° 19' 21.259" E
	24	26° 40' 52.172" N	89° 19' 18.807" E
	25	26° 40' 48.653" N	89° 19' 19.346" E
	26	26° 40' 46.406" N	89° 19' 20.066" E
	27	26° 40' 46.236" N	89° 19' 20.249" E
	28	26° 40' 44.203" N	89° 19' 18.108" E
	29	26° 40' 42.849" N	89° 19' 16.837" E
	30	26° 40' 40.543" N	89° 19' 15.929" E
	31	26° 40' 37.862" N	89° 19' 16.927" E
	32	26° 40' 36.443" N	89° 19' 19.577" E
	33	26° 40' 33.660" N	89° 19' 21.530" E
	34	26° 40' 30.373" N	89° 19' 22.803" E
	35	26° 40' 26.820" N	89° 19' 24.549" E
	36	26° 40' 24.414" N	89° 19' 24.500" E
	37	26° 40' 21.627" N	89° 19' 26.740" E
	38	26° 40' 21.546" N	89° 19' 24.423" E
	39	26° 40' 23.177" N	89° 19' 23.278" E
	40	26° 40' 28.623" N	89° 19' 19.150" E
	41	26° 40' 34.422" N	89° 19' 14.699" E
	42	26° 40' 41.242" N	89° 19' 8.427" E
	43	26° 40' 47.390" N	89° 19' 8.995" E
	44	26° 40' 54.801" N	89° 19' 9.145" E
	45	26° 41' 1.032" N	89° 19' 9.547" E
	46	26° 41' 8.052" N	89° 19' 10.421" E
	47	26° 41' 18.181" N	89° 19' 11.853" E
	48	26° 41' 26.061" N	89° 19' 13.495" E
	49	26° 41' 32.452" N	89° 19' 14.846" E
	50	26° 41' 34.813" N	89° 19' 13.511" E
	51	26° 41' 39.022" N	89° 19' 12.403" E
	52	26° 41' 44.457" N	89° 19' 11.221" E
	53	26° 41' 48.549" N	89° 19' 13.314" E
	54	26° 41' 53.514" N	89° 19' 17.147" E
	55	26° 41' 55.189" N	89° 19' 26.724" E
	56	26° 41' 59.389" N	89° 19' 28.463" E
	57	26° 42' 4.641" N	89° 19' 30.580" E
	58	26° 42' 13.354" N	89° 19' 33.915" E
	59	26° 42' 22.686" N	89° 19' 38.842" E
	60	26° 42' 26.852" N	89° 19' 44.239" E
	61	26° 42' 26.503" N	89° 19' 48.632" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	62	26° 42' 25.499" N	89° 19' 48.507" E
	63	26° 42' 16.071" N	89° 19' 46.197" E
	64	26° 42' 6.660" N	89° 19' 43.739" E
	65	26° 42' 2.165" N	89° 19' 42.486" E
	66	26° 41' 55.259" N	89° 19' 39.589" E
	67	26° 41' 53.350" N	89° 19' 38.698" E
	68	26° 41' 51.248" N	89° 19' 37.926" E
	69	26° 41' 46.482" N	89° 19' 36.178" E
	70	26° 41' 40.134" N	89° 19' 35.266" E
	71	26° 41' 35.013" N	89° 19' 34.753" E
	72	26° 41' 31.473" N	89° 19' 34.740" E
	73	26° 41' 30.482" N	89° 19' 34.705" E
	74	26° 41' 28.243" N	89° 19' 32.855" E
	75	26° 41' 24.494" N	89° 19' 33.497" E
	76	26° 41' 21.263" N	89° 19' 34.402" E
	77	26° 41' 18.731" N	89° 19' 34.325" E
AD_KC_TR_30	1	26° 40' 16.791" N	89° 19' 56.150" E
	2	26° 40' 16.192" N	89° 19' 55.062" E
	3	26° 40' 15.647" N	89° 19' 54.073" E
	4	26° 40' 19.403" N	89° 19' 50.418" E
	5	26° 40' 24.586" N	89° 19' 48.897" E
	6	26° 40' 27.146" N	89° 19' 50.002" E
	7	26° 40' 27.543" N	89° 19' 52.019" E
	8	26° 40' 31.908" N	89° 19' 53.160" E
	9	26° 40' 27.760" N	89° 19' 56.071" E
	10	26° 40' 24.880" N	89° 19' 55.645" E
	11	26° 40' 22.385" N	89° 19' 55.785" E
	12	26° 40' 19.280" N	89° 19' 56.392" E
	13	26° 40' 18.079" N	89° 19' 56.272" E
AD_KC_TR_31	1	26° 40' 8.256" N	89° 19' 38.701" E
	2	26° 40' 8.000" N	89° 19' 37.547" E
	3	26° 40' 8.295" N	89° 19' 36.329" E
	4	26° 40' 11.209" N	89° 19' 34.780" E
	5	26° 40' 14.125" N	89° 19' 33.079" E
	6	26° 40' 14.117" N	89° 19' 37.748" E
	7	26° 40' 15.492" N	89° 19' 37.776" E
	8	26° 40' 15.172" N	89° 19' 40.525" E
	9	26° 40' 14.159" N	89° 19' 43.566" E
	10	26° 40' 13.607" N	89° 19' 43.708" E
	11	26° 40' 12.329" N	89° 19' 41.921" E
	12	26° 40' 10.341" N	89° 19' 39.929" E
AD_KC_TR_32	1	26° 40' 19.444" N	89° 19' 27.370" E
	2	26° 40' 17.376" N	89° 19' 27.710" E
	3	26° 40' 15.906" N	89° 19' 29.288" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	4	26° 40' 14.580" N	89° 19' 30.486" E
	5	26° 40' 11.602" N	89° 19' 31.727" E
	6	26° 40' 8.883" N	89° 19' 34.044" E
	7	26° 40' 7.916" N	89° 19' 34.254" E
	8	26° 40' 7.660" N	89° 19' 33.101" E
	9	26° 40' 9.474" N	89° 19' 31.530" E
	10	26° 40' 9.500" N	89° 19' 29.923" E
	11	26° 40' 7.303" N	89° 19' 29.726" E
	12	26° 40' 1.235" N	89° 19' 30.751" E
	13	26° 39' 58.026" N	89° 19' 29.308" E
	14	26° 39' 56.819" N	89° 19' 27.447" E
	15	26° 39' 55.189" N	89° 19' 26.189" E
	16	26° 39' 53.217" N	89° 19' 24.848" E
	17	26° 39' 50.597" N	89° 19' 25.254" E
	18	26° 39' 48.203" N	89° 19' 24.440" E
	19	26° 39' 45.149" N	89° 19' 24.732" E
	20	26° 39' 44.889" N	89° 19' 24.985" E
	21	26° 39' 42.913" N	89° 19' 24.945" E
	22	26° 39' 41.549" N	89° 19' 24.248" E
	23	26° 39' 40.671" N	89° 19' 23.902" E
	24	26° 39' 40.449" N	89° 19' 26.220" E
	25	26° 39' 38.445" N	89° 19' 26.792" E
	26	26° 39' 33.957" N	89° 19' 27.926" E
	27	26° 39' 32.934" N	89° 19' 26.885" E
	28	26° 39' 36.806" N	89° 19' 20.816" E
	29	26° 39' 41.119" N	89° 19' 20.272" E
	30	26° 39' 45.501" N	89° 19' 20.204" E
	31	26° 39' 49.449" N	89° 19' 21.030" E
	32	26° 39' 52.447" N	89° 19' 23.489" E
	33	26° 39' 54.228" N	89° 19' 25.084" E
	34	26° 39' 56.292" N	89° 19' 25.445" E
	35	26° 39' 59.952" N	89° 19' 26.044" E
	36	26° 40' 4.828" N	89° 19' 26.882" E
	37	26° 40' 9.225" N	89° 19' 26.672" E
	38	26° 40' 14.346" N	89° 19' 26.168" E
	39	26° 40' 19.245" N	89° 19' 25.745" E
	40	26° 40' 19.188" N	89° 19' 26.216" E
AD_KC_TR_33	1	26° 39' 49.459" N	89° 20' 1.127" E
	2	26° 39' 46.760" N	89° 20' 3.521" E
	3	26° 39' 47.418" N	89° 20' 3.918" E
	4	26° 39' 45.456" N	89° 20' 6.174" E
	5	26° 39' 43.927" N	89° 20' 7.138" E
	6	26° 39' 42.046" N	89° 20' 8.630" E
	7	26° 39' 40.427" N	89° 20' 9.139" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	8	26° 39' 39.095" N	89° 20' 10.320" E
	9	26° 39' 36.751" N	89° 20' 11.007" E
	10	26° 39' 34.818" N	89° 20' 11.628" E
	11	26° 39' 33.105" N	89° 20' 11.481" E
	12	26° 39' 31.588" N	89° 20' 9.632" E
	13	26° 39' 29.136" N	89° 20' 7.190" E
	14	26° 39' 26.653" N	89° 20' 6.566" E
	15	26° 39' 25.796" N	89° 20' 6.192" E
	16	26° 39' 25.945" N	89° 20' 2.366" E
	17	26° 39' 27.152" N	89° 20' 2.324" E
	18	26° 39' 28.611" N	89° 20' 1.435" E
	19	26° 39' 30.028" N	89° 19' 59.914" E
	20	26° 39' 34.225" N	89° 19' 59.030" E
	21	26° 39' 37.993" N	89° 20' 1.683" E
	22	26° 39' 43.143" N	89° 20' 2.170" E
	23	26° 39' 49.194" N	89° 19' 55.136" E
	24	26° 39' 54.348" N	89° 19' 52.922" E
	25	26° 39' 56.207" N	89° 19' 49.612" E
	26	26° 39' 58.923" N	89° 19' 46.510" E
	27	26° 39' 59.615" N	89° 19' 46.237" E
	28	26° 39' 58.882" N	89° 19' 48.996" E
	29	26° 39' 58.532" N	89° 19' 54.634" E
	30	26° 39' 56.686" N	89° 19' 57.084" E
	31	26° 39' 54.241" N	89° 19' 59.426" E
	32	26° 39' 52.246" N	89° 20' 0.534" E
	33	26° 39' 51.271" N	89° 19' 59.966" E
AD_KC_TR_34_35	1	26° 38' 54.342" N	89° 20' 26.226" E
	2	26° 38' 52.735" N	89° 20' 26.835" E
	3	26° 38' 54.224" N	89° 20' 24.904" E
	4	26° 38' 57.379" N	89° 20' 21.237" E
	5	26° 39' 0.622" N	89° 20' 17.477" E
	6	26° 39' 3.675" N	89° 20' 14.765" E
	7	26° 39' 5.926" N	89° 20' 13.758" E
	8	26° 39' 8.418" N	89° 20' 13.809" E
	9	26° 39' 11.079" N	89° 20' 14.055" E
	10	26° 39' 12.298" N	89° 20' 13.123" E
	11	26° 39' 13.357" N	89° 20' 11.423" E
	12	26° 39' 14.679" N	89° 20' 9.441" E
	13	26° 39' 16.364" N	89° 20' 6.318" E
	14	26° 39' 19.120" N	89° 20' 5.991" E
	15	26° 39' 22.038" N	89° 20' 6.242" E
	16	26° 39' 24.211" N	89° 20' 8.716" E
	17	26° 39' 25.895" N	89° 20' 10.855" E
	18	26° 39' 30.151" N	89° 20' 12.674" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	19	26° 39' 30.839" N	89° 20' 12.906" E
	20	26° 39' 29.929" N	89° 20' 13.198" E
	21	26° 39' 26.809" N	89° 20' 15.342" E
	22	26° 39' 22.087" N	89° 20' 17.209" E
	23	26° 39' 21.407" N	89° 20' 17.486" E
	24	26° 39' 20.618" N	89° 20' 16.972" E
	25	26° 39' 16.190" N	89° 20' 16.537" E
	26	26° 39' 8.611" N	89° 20' 16.383" E
	27	26° 39' 6.205" N	89° 20' 18.400" E
	28	26° 39' 4.313" N	89° 20' 21.238" E
	29	26° 39' 2.752" N	89° 20' 22.968" E
	30	26° 39' 2.128" N	89° 20' 23.214" E
	31	26° 39' 1.115" N	89° 20' 23.615" E
	32	26° 38' 55.002" N	89° 20' 25.975" E
	33	26° 39' 47.734" N	89° 20' 8.042" E
	34	26° 39' 45.619" N	89° 20' 8.554" E
	35	26° 39' 45.981" N	89° 20' 8.305" E
	36	26° 39' 58.404" N	89° 19' 59.316" E
	37	26° 40' 2.279" N	89° 19' 55.778" E
	38	26° 40' 7.192" N	89° 19' 54.959" E
	39	26° 40' 9.773" N	89° 19' 54.782" E
	40	26° 40' 10.914" N	89° 19' 54.360" E
	41	26° 40' 11.963" N	89° 19' 53.329" E
	42	26° 40' 16.192" N	89° 19' 55.062" E
	43	26° 40' 16.791" N	89° 19' 56.150" E
	44	26° 40' 17.110" N	89° 19' 57.687" E
	45	26° 40' 18.133" N	89° 19' 58.186" E
	46	26° 40' 18.560" N	89° 19' 58.386" E
	47	26° 40' 20.281" N	89° 19' 58.230" E
	48	26° 40' 22.689" N	89° 19' 58.183" E
	49	26° 40' 26.415" N	89° 19' 57.957" E
	50	26° 40' 26.478" N	89° 19' 58.727" E
	51	26° 40' 22.725" N	89° 19' 59.404" E
	52	26° 40' 16.992" N	89° 20' 0.588" E
	53	26° 40' 15.996" N	89° 19' 58.985" E
	54	26° 40' 13.595" N	89° 19' 57.616" E
	55	26° 40' 11.591" N	89° 19' 57.173" E
	56	26° 40' 8.892" N	89° 19' 58.209" E
	57	26° 40' 6.443" N	89° 19' 59.709" E
	58	26° 40' 5.420" N	89° 20' 2.329" E
	59	26° 40' 0.575" N	89° 20' 2.173" E
	60	26° 39' 55.306" N	89° 20' 5.797" E
	61	26° 39' 54.185" N	89° 20' 6.792" E
	62	26° 39' 53.366" N	89° 20' 7.006" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	63	26° 39' 50.751" N	89° 20' 7.549" E
AD_KC_TR_35_34	1	26° 38' 57.234" N	89° 20' 19.608" E
	2	26° 38' 51.905" N	89° 20' 25.451" E
	3	26° 38' 52.164" N	89° 20' 24.127" E
	4	26° 38' 53.842" N	89° 20' 20.096" E
	5	26° 38' 59.672" N	89° 20' 11.844" E
	6	26° 39' 4.952" N	89° 20' 9.937" E
	7	26° 39' 10.227" N	89° 20' 3.168" E
	8	26° 39' 18.523" N	89° 20' 0.467" E
	9	26° 39' 23.441" N	89° 20' 2.452" E
	10	26° 39' 24.363" N	89° 20' 2.420" E
	11	26° 39' 24.183" N	89° 20' 5.490" E
	12	26° 39' 18.537" N	89° 20' 4.832" E
	13	26° 39' 14.492" N	89° 20' 5.132" E
	14	26° 39' 13.051" N	89° 20' 9.120" E
	15	26° 39' 11.451" N	89° 20' 12.340" E
	16	26° 39' 4.044" N	89° 20' 13.242" E
	17	26° 39' 0.487" N	89° 20' 15.178" E
	18	26° 38' 57.356" N	89° 20' 17.410" E
AD_AD1_TR_36_34	1	26° 38' 4.175" N	89° 20' 33.949" E
	2	26° 38' 3.866" N	89° 20' 34.776" E
	3	26° 38' 4.375" N	89° 20' 36.460" E
	4	26° 38' 1.899" N	89° 20' 36.768" E
	5	26° 37' 57.737" N	89° 20' 35.009" E
	6	26° 37' 54.095" N	89° 20' 34.337" E
	7	26° 37' 48.951" N	89° 20' 33.515" E
	8	26° 37' 45.510" N	89° 20' 33.684" E
	9	26° 37' 40.342" N	89° 20' 34.296" E
	10	26° 37' 39.061" N	89° 20' 35.084" E
	11	26° 37' 38.085" N	89° 20' 34.369" E
	12	26° 37' 35.450" N	89° 20' 34.128" E
	13	26° 37' 37.887" N	89° 20' 29.218" E
	14	26° 37' 42.716" N	89° 20' 29.556" E
	15	26° 37' 46.942" N	89° 20' 31.561" E
	16	26° 37' 52.196" N	89° 20' 30.923" E
	17	26° 37' 54.825" N	89° 20' 30.976" E
	18	26° 37' 56.942" N	89° 20' 30.847" E
	19	26° 38' 0.224" N	89° 20' 28.848" E
	20	26° 38' 2.528" N	89° 20' 26.715" E
	21	26° 38' 5.548" N	89° 20' 24.997" E
	22	26° 38' 7.441" N	89° 20' 25.954" E
	23	26° 38' 10.045" N	89° 20' 28.166" E
	24	26° 38' 12.258" N	89° 20' 29.455" E
	25	26° 38' 14.743" N	89° 20' 29.984" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	26	26° 38' 15.764" N	89° 20' 30.631" E
	27	26° 38' 22.503" N	89° 20' 30.630" E
	28	26° 38' 26.269" N	89° 20' 30.348" E
	29	26° 38' 28.232" N	89° 20' 30.354" E
	30	26° 38' 30.499" N	89° 20' 28.392" E
	31	26° 38' 36.355" N	89° 20' 27.746" E
	32	26° 38' 44.962" N	89° 20' 27.061" E
	33	26° 38' 49.442" N	89° 20' 26.483" E
	34	26° 38' 49.263" N	89° 20' 28.152" E
	35	26° 38' 49.023" N	89° 20' 28.243" E
	36	26° 38' 43.367" N	89° 20' 31.915" E
	37	26° 38' 37.225" N	89° 20' 33.426" E
	38	26° 38' 32.250" N	89° 20' 34.736" E
	39	26° 38' 31.002" N	89° 20' 35.065" E
	40	26° 38' 25.699" N	89° 20' 35.584" E
	41	26° 38' 25.068" N	89° 20' 35.802" E
	42	26° 38' 17.100" N	89° 20' 32.997" E
	43	26° 38' 13.928" N	89° 20' 32.454" E
	44	26° 38' 13.555" N	89° 20' 34.264" E
	45	26° 38' 12.205" N	89° 20' 32.706" E
	46	26° 38' 11.543" N	89° 20' 31.162" E
	47	26° 38' 9.571" N	89° 20' 30.835" E
	48	26° 38' 7.740" N	89° 20' 32.423" E
	49	26° 38' 6.928" N	89° 20' 34.702" E
	50	26° 38' 5.226" N	89° 20' 33.711" E
AD_AD1_TR_41	1	26° 38' 2.231" N	89° 20' 43.310" E
	2	26° 38' 2.278" N	89° 20' 40.442" E
	3	26° 38' 3.944" N	89° 20' 38.467" E
	4	26° 38' 7.120" N	89° 20' 38.723" E
	5	26° 38' 10.121" N	89° 20' 39.167" E
	6	26° 38' 11.470" N	89° 20' 39.195" E
	7	26° 38' 8.442" N	89° 20' 39.593" E
	8	26° 38' 6.439" N	89° 20' 43.650" E
	9	26° 38' 2.557" N	89° 20' 44.290" E
	10	26° 38' 2.310" N	89° 20' 44.327" E
AD_AD1_TR_42	1	26° 37' 29.638" N	89° 20' 48.168" E
	2	26° 37' 29.109" N	89° 20' 48.323" E
	3	26° 37' 29.961" N	89° 20' 44.679" E
	4	26° 37' 35.144" N	89° 20' 43.101" E
	5	26° 37' 39.410" N	89° 20' 45.233" E
	6	26° 37' 39.055" N	89° 20' 45.315" E
	7	26° 37' 37.172" N	89° 20' 46.134" E
	8	26° 37' 35.890" N	89° 20' 46.842" E
	9	26° 37' 33.175" N	89° 20' 47.429" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	10	26° 37' 53.259" N	89° 20' 45.707" E
	11	26° 37' 52.763" N	89° 20' 45.122" E
	12	26° 37' 55.245" N	89° 20' 44.698" E
	13	26° 37' 59.848" N	89° 20' 41.827" E
	14	26° 38' 0.840" N	89° 20' 44.238" E
	15	26° 38' 0.866" N	89° 20' 44.545" E
	16	26° 37' 58.417" N	89° 20' 44.913" E
AD_AD1_TR_43	1	26° 37' 16.212" N	89° 20' 40.984" E
	2	26° 37' 13.070" N	89° 20' 38.281" E
	3	26° 37' 12.536" N	89° 20' 38.766" E
	4	26° 37' 9.964" N	89° 20' 36.266" E
	5	26° 37' 7.378" N	89° 20' 34.606" E
	6	26° 37' 6.984" N	89° 20' 33.451" E
	7	26° 37' 9.882" N	89° 20' 32.898" E
	8	26° 37' 11.414" N	89° 20' 31.705" E
	9	26° 37' 12.926" N	89° 20' 31.736" E
	10	26° 37' 14.518" N	89° 20' 31.156" E
	11	26° 37' 14.358" N	89° 20' 32.395" E
	12	26° 37' 20.591" N	89° 20' 34.034" E
	13	26° 37' 23.966" N	89° 20' 37.852" E
	14	26° 37' 27.104" N	89° 20' 39.370" E
	15	26° 37' 27.304" N	89° 20' 39.395" E
	16	26° 37' 25.594" N	89° 20' 42.634" E
	17	26° 37' 24.776" N	89° 20' 42.918" E
	18	26° 37' 21.960" N	89° 20' 42.708" E
	19	26° 37' 19.365" N	89° 20' 41.660" E
	20	26° 37' 17.516" N	89° 20' 41.163" E
AD_AD1_TR_44	1	26° 36' 54.561" N	89° 20' 35.285" E
	2	26° 36' 54.390" N	89° 20' 31.932" E
	3	26° 36' 57.336" N	89° 20' 30.726" E
	4	26° 37' 2.683" N	89° 20' 31.574" E
	5	26° 37' 5.726" N	89° 20' 34.697" E
	6	26° 37' 7.736" N	89° 20' 37.894" E
	7	26° 37' 10.625" N	89° 20' 39.961" E
	8	26° 37' 14.416" N	89° 20' 43.725" E
	9	26° 37' 20.045" N	89° 20' 46.489" E
	10	26° 37' 16.761" N	89° 20' 46.241" E
	11	26° 37' 7.362" N	89° 20' 42.821" E
	12	26° 36' 58.309" N	89° 20' 37.974" E
AD_AD1_TR_45_44	1	26° 36' 44.978" N	89° 20' 35.618" E
	2	26° 36' 42.206" N	89° 20' 31.125" E
	3	26° 36' 44.216" N	89° 20' 30.720" E
	4	26° 36' 48.538" N	89° 20' 30.568" E
	5	26° 36' 49.383" N	89° 20' 31.935" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	6	26° 36' 50.433" N	89° 20' 33.391" E
	7	26° 36' 50.725" N	89° 20' 34.611" E
	8	26° 36' 56.147" N	89° 20' 38.767" E
	9	26° 37' 2.636" N	89° 20' 42.725" E
	10	26° 37' 7.629" N	89° 20' 46.174" E
	11	26° 37' 11.474" N	89° 20' 47.568" E
	12	26° 37' 9.103" N	89° 20' 47.997" E
	13	26° 37' 3.754" N	89° 20' 46.573" E
	14	26° 36' 59.392" N	89° 20' 43.974" E
	15	26° 36' 55.869" N	89° 20' 42.587" E
	16	26° 36' 52.986" N	89° 20' 41.452" E
	17	26° 36' 50.748" N	89° 20' 40.331" E
	18	26° 36' 48.616" N	89° 20' 39.331" E
	19	26° 36' 47.663" N	89° 20' 38.474" E
	20	26° 36' 46.396" N	89° 20' 37.134" E
AD_AD1_TR_46_45	1	26° 36' 36.175" N	89° 20' 38.780" E
	2	26° 36' 32.811" N	89° 20' 39.476" E
	3	26° 36' 32.405" N	89° 20' 38.474" E
	4	26° 36' 32.682" N	89° 20' 37.332" E
	5	26° 36' 33.144" N	89° 20' 34.893" E
	6	26° 36' 32.920" N	89° 20' 33.321" E
	7	26° 36' 34.914" N	89° 20' 32.309" E
	8	26° 36' 39.470" N	89° 20' 32.307" E
	9	26° 36' 42.372" N	89° 20' 33.513" E
	10	26° 36' 45.056" N	89° 20' 37.585" E
	11	26° 36' 41.938" N	89° 20' 38.515" E
	12	26° 36' 40.810" N	89° 20' 39.161" E
	13	26° 36' 36.216" N	89° 20' 38.314" E
AD_AD1_TR_47_46	1	26° 36' 11.432" N	89° 20' 38.429" E
	2	26° 36' 9.966" N	89° 20' 37.537" E
	3	26° 36' 13.830" N	89° 20' 36.453" E
	4	26° 36' 14.333" N	89° 20' 36.267" E
	5	26° 36' 17.322" N	89° 20' 35.162" E
	6	26° 36' 22.573" N	89° 20' 33.840" E
	7	26° 36' 25.302" N	89° 20' 34.864" E
	8	26° 36' 29.264" N	89° 20' 36.233" E
	9	26° 36' 30.836" N	89° 20' 34.977" E
	10	26° 36' 28.665" N	89° 20' 41.171" E
	11	26° 36' 24.564" N	89° 20' 44.817" E
	12	26° 36' 19.240" N	89° 20' 44.517" E
	13	26° 36' 16.415" N	89° 20' 43.790" E
	14	26° 36' 13.952" N	89° 20' 42.018" E
AD_AD1_TR_48_49_50_51_47	1	26° 35' 19.355" N	89° 20' 46.992" E
	2	26° 35' 18.000" N	89° 20' 44.455" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	3	26° 35' 21.558" N	89° 20' 43.691" E
	4	26° 35' 22.591" N	89° 20' 42.986" E
	5	26° 35' 27.584" N	89° 20' 42.196" E
	6	26° 35' 34.121" N	89° 20' 41.191" E
	7	26° 35' 37.052" N	89° 20' 40.463" E
	8	26° 35' 37.909" N	89° 20' 40.480" E
	9	26° 35' 38.691" N	89° 20' 40.055" E
	10	26° 35' 41.381" N	89° 20' 39.387" E
	11	26° 35' 46.622" N	89° 20' 37.775" E
	12	26° 35' 52.054" N	89° 20' 36.128" E
	13	26° 35' 56.067" N	89° 20' 34.916" E
	14	26° 35' 58.067" N	89° 20' 35.574" E
	15	26° 36' 1.099" N	89° 20' 37.992" E
	16	26° 36' 4.009" N	89° 20' 41.019" E
	17	26° 36' 7.368" N	89° 20' 39.830" E
	18	26° 36' 10.895" N	89° 20' 40.978" E
	19	26° 36' 13.507" N	89° 20' 45.454" E
	20	26° 36' 17.790" N	89° 20' 46.378" E
	21	26° 36' 20.989" N	89° 20' 47.877" E
	22	26° 36' 19.998" N	89° 20' 49.292" E
	23	26° 36' 16.578" N	89° 20' 49.598" E
	24	26° 36' 14.831" N	89° 20' 49.755" E
	25	26° 36' 10.562" N	89° 20' 48.143" E
	26	26° 36' 7.914" N	89° 20' 47.441" E
	27	26° 36' 6.983" N	89° 20' 50.458" E
	28	26° 36' 5.026" N	89° 20' 54.434" E
	29	26° 36' 3.278" N	89° 20' 56.215" E
	30	26° 36' 1.901" N	89° 20' 56.283" E
	31	26° 35' 57.349" N	89° 20' 56.094" E
	32	26° 35' 53.402" N	89° 20' 55.631" E
	33	26° 35' 50.309" N	89° 20' 55.568" E
	34	26° 35' 47.050" N	89° 20' 55.119" E
	35	26° 35' 44.045" N	89° 20' 54.866" E
	36	26° 35' 38.952" N	89° 20' 56.196" E
	37	26° 35' 35.098" N	89° 20' 55.353" E
	38	26° 35' 32.263" N	89° 20' 55.199" E
	39	26° 35' 28.022" N	89° 20' 51.766" E
	40	26° 35' 27.984" N	89° 20' 51.240" E
	41	26° 35' 26.379" N	89° 20' 51.079" E
	42	26° 35' 25.100" N	89° 20' 50.456" E
	43	26° 35' 22.854" N	89° 20' 49.812" E
AD_AD1_TR_52	1	26° 35' 5.328" N	89° 20' 57.586" E
	2	26° 35' 3.956" N	89° 20' 58.698" E
	3	26° 35' 4.456" N	89° 20' 59.665" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	4	26° 35' 1.954" N	89° 21' 0.187" E
	5	26° 34' 58.345" N	89° 21' 0.113" E
	6	26° 34' 57.753" N	89° 20' 59.528" E
	7	26° 34' 55.363" N	89° 20' 58.523" E
	8	26° 34' 55.056" N	89° 20' 56.318" E
	9	26° 34' 55.216" N	89° 20' 54.991" E
	10	26° 34' 53.606" N	89° 20' 55.619" E
	11	26° 34' 51.639" N	89° 20' 55.005" E
	12	26° 34' 50.545" N	89° 20' 53.549" E
	13	26° 34' 50.411" N	89° 20' 51.252" E
	14	26° 34' 51.648" N	89° 20' 49.269" E
	15	26° 34' 57.099" N	89° 20' 47.086" E
	16	26° 34' 57.987" N	89° 20' 46.790" E
	17	26° 34' 58.503" N	89° 20' 46.801" E
	18	26° 35' 4.147" N	89° 20' 45.850" E
	19	26° 35' 9.723" N	89° 20' 45.005" E
	20	26° 35' 11.046" N	89° 20' 45.745" E
	21	26° 35' 13.848" N	89° 20' 45.954" E
	22	26° 35' 15.679" N	89° 20' 46.317" E
	23	26° 35' 18.480" N	89° 20' 48.478" E
	24	26° 35' 21.881" N	89° 20' 50.746" E
	25	26° 35' 25.298" N	89° 20' 52.059" E
	26	26° 35' 25.441" N	89° 20' 53.783" E
	27	26° 35' 24.281" N	89° 20' 56.341" E
	28	26° 35' 20.553" N	89° 20' 58.273" E
	29	26° 35' 17.202" N	89° 20' 58.204" E
	30	26° 35' 13.690" N	89° 20' 57.463" E
	31	26° 35' 8.176" N	89° 20' 58.211" E
	32	26° 35' 5.776" N	89° 20' 57.779" E
AD_AD1_TR_53	1	26° 34' 49.115" N	89° 20' 47.863" E
	2	26° 34' 47.098" N	89° 20' 48.890" E
	3	26° 34' 49.232" N	89° 20' 49.793" E
	4	26° 34' 46.190" N	89° 20' 51.835" E
	5	26° 34' 43.423" N	89° 20' 52.830" E
	6	26° 34' 42.070" N	89° 20' 51.464" E
	7	26° 34' 38.671" N	89° 20' 49.100" E
	8	26° 34' 34.444" N	89° 20' 47.754" E
	9	26° 34' 39.751" N	89° 20' 46.005" E
	10	26° 34' 48.273" N	89° 20' 46.623" E
	11	26° 34' 53.374" N	89° 20' 46.705" E
	12	26° 34' 50.404" N	89° 20' 47.890" E
AD_AD1_TR_54	1	26° 34' 37.697" N	89° 21' 1.221" E
	2	26° 34' 36.570" N	89° 21' 1.772" E
	3	26° 34' 37.898" N	89° 21' 4.667" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	4	26° 34' 38.011" N	89° 21' 8.207" E
	5	26° 34' 35.596" N	89° 21' 13.893" E
	6	26° 34' 33.455" N	89° 21' 18.629" E
	7	26° 34' 32.667" N	89° 21' 19.864" E
	8	26° 34' 32.203" N	89° 21' 21.879" E
	9	26° 34' 30.616" N	89° 21' 24.332" E
	10	26° 34' 26.986" N	89° 21' 25.500" E
	11	26° 34' 23.359" N	89° 21' 26.478" E
	12	26° 34' 22.188" N	89° 21' 24.542" E
	13	26° 34' 26.249" N	89° 21' 23.287" E
	14	26° 34' 29.027" N	89° 21' 21.623" E
	15	26° 34' 31.222" N	89° 21' 18.488" E
	16	26° 34' 30.681" N	89° 21' 14.844" E
	17	26° 34' 29.034" N	89° 21' 10.509" E
	18	26° 34' 28.592" N	89° 21' 6.007" E
	19	26° 34' 29.322" N	89° 21' 3.440" E
	20	26° 34' 33.163" N	89° 20' 59.886" E
	21	26° 34' 37.162" N	89° 20' 57.195" E
	22	26° 34' 37.126" N	89° 20' 56.958" E
	23	26° 34' 47.438" N	89° 20' 56.970" E
	24	26° 34' 47.297" N	89° 20' 57.689" E
	25	26° 34' 43.589" N	89° 20' 58.378" E
	26	26° 34' 40.365" N	89° 21' 0.989" E
AD_AD1_TR_55_54	1	26° 34' 7.741" N	89° 21' 16.268" E
	2	26° 34' 4.602" N	89° 21' 15.859" E
	3	26° 34' 4.737" N	89° 21' 13.912" E
	4	26° 34' 3.700" N	89° 21' 12.432" E
	5	26° 34' 2.529" N	89° 21' 13.293" E
	6	26° 34' 2.263" N	89° 21' 15.326" E
	7	26° 34' 0.480" N	89° 21' 15.372" E
	8	26° 33' 58.687" N	89° 21' 11.593" E
	9	26° 33' 56.296" N	89° 21' 10.233" E
	10	26° 33' 56.289" N	89° 21' 9.957" E
	11	26° 33' 57.785" N	89° 21' 10.476" E
	12	26° 33' 59.481" N	89° 21' 9.437" E
	13	26° 34' 1.850" N	89° 21' 8.594" E
	14	26° 34' 2.156" N	89° 21' 8.484" E
	15	26° 34' 4.022" N	89° 21' 3.838" E
	16	26° 34' 4.218" N	89° 21' 3.470" E
	17	26° 34' 4.253" N	89° 21' 3.362" E
	18	26° 34' 6.355" N	89° 21' 2.139" E
	19	26° 34' 7.885" N	89° 20' 58.577" E
	20	26° 34' 11.294" N	89° 20' 58.157" E
	21	26° 34' 16.342" N	89° 20' 57.493" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	22	26° 34' 20.166" N	89° 20' 56.995" E
	23	26° 34' 22.361" N	89° 20' 54.509" E
	24	26° 34' 25.656" N	89° 20' 50.803" E
	25	26° 34' 27.425" N	89° 20' 50.181" E
	26	26° 34' 27.718" N	89° 20' 51.096" E
	27	26° 34' 29.947" N	89° 20' 51.027" E
	28	26° 34' 31.982" N	89° 20' 51.427" E
	29	26° 34' 33.156" N	89° 20' 51.929" E
	30	26° 34' 33.884" N	89° 20' 53.378" E
	31	26° 34' 33.946" N	89° 20' 55.213" E
	32	26° 34' 33.928" N	89° 20' 55.217" E
	33	26° 34' 28.987" N	89° 20' 57.698" E
	34	26° 34' 25.621" N	89° 21' 3.747" E
	35	26° 34' 25.258" N	89° 21' 6.165" E
	36	26° 34' 24.751" N	89° 21' 7.684" E
	37	26° 34' 23.342" N	89° 21' 9.720" E
	38	26° 34' 22.170" N	89° 21' 10.770" E
	39	26° 34' 21.114" N	89° 21' 12.240" E
	40	26° 34' 19.496" N	89° 21' 13.411" E
	41	26° 34' 17.401" N	89° 21' 15.318" E
	42	26° 34' 14.434" N	89° 21' 16.978" E
	43	26° 34' 11.442" N	89° 21' 17.032" E
AD_AD1_TR_56	1	26° 33' 58.940" N	89° 21' 20.267" E
	2	26° 33' 54.527" N	89° 21' 20.774" E
	3	26° 33' 50.654" N	89° 21' 21.054" E
	4	26° 33' 47.652" N	89° 21' 20.634" E
	5	26° 33' 45.188" N	89° 21' 20.225" E
	6	26° 33' 42.952" N	89° 21' 18.984" E
	7	26° 33' 42.122" N	89° 21' 17.175" E
	8	26° 33' 38.715" N	89° 21' 15.313" E
	9	26° 33' 39.953" N	89° 21' 14.395" E
	10	26° 33' 32.240" N	89° 21' 11.444" E
	11	26° 33' 32.699" N	89° 21' 8.738" E
	12	26° 33' 33.482" N	89° 21' 6.842" E
	13	26° 33' 34.596" N	89° 21' 4.476" E
	14	26° 33' 36.002" N	89° 21' 3.907" E
	15	26° 33' 39.547" N	89° 21' 3.979" E
	16	26° 33' 40.976" N	89° 21' 4.008" E
	17	26° 33' 43.179" N	89° 21' 4.897" E
	18	26° 33' 44.373" N	89° 21' 5.479" E
	19	26° 33' 51.759" N	89° 21' 8.812" E
	20	26° 33' 52.381" N	89° 21' 10.412" E
	21	26° 33' 54.035" N	89° 21' 14.388" E
	22	26° 33' 55.716" N	89° 21' 16.693" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	23	26° 33' 58.039" N	89° 21' 19.001" E
	24	26° 33' 57.808" N	89° 21' 19.012" E
AD_AD1_TR_57	1	26° 33' 19.078" N	89° 21' 12.801" E
	2	26° 33' 16.563" N	89° 21' 11.033" E
	3	26° 33' 16.801" N	89° 21' 10.287" E
	4	26° 33' 17.238" N	89° 21' 10.032" E
	5	26° 33' 16.325" N	89° 21' 8.477" E
	6	26° 33' 15.706" N	89° 21' 8.757" E
	7	26° 33' 15.448" N	89° 21' 8.243" E
	8	26° 33' 13.677" N	89° 21' 8.947" E
	9	26° 33' 13.609" N	89° 21' 8.922" E
	10	26° 33' 9.519" N	89° 21' 5.870" E
	11	26° 33' 9.216" N	89° 21' 5.627" E
	12	26° 33' 7.215" N	89° 21' 3.319" E
	13	26° 33' 3.714" N	89° 21' 0.620" E
	14	26° 33' 1.072" N	89° 20' 57.937" E
	15	26° 32' 58.532" N	89° 20' 55.615" E
	16	26° 32' 58.505" N	89° 20' 54.993" E
	17	26° 33' 4.558" N	89° 20' 55.022" E
	18	26° 33' 10.777" N	89° 20' 54.893" E
	19	26° 33' 15.410" N	89° 20' 55.417" E
	20	26° 33' 20.987" N	89° 21' 1.266" E
	21	26° 33' 22.175" N	89° 21' 2.814" E
	22	26° 33' 24.746" N	89° 21' 4.237" E
	23	26° 33' 26.016" N	89° 21' 3.464" E
	24	26° 33' 32.389" N	89° 21' 2.029" E
	25	26° 33' 32.405" N	89° 21' 2.032" E
	26	26° 33' 32.036" N	89° 21' 3.642" E
	27	26° 33' 31.075" N	89° 21' 7.207" E
	28	26° 33' 28.109" N	89° 21' 15.032" E
	29	26° 33' 23.507" N	89° 21' 12.644" E
	30	26° 33' 22.810" N	89° 21' 12.355" E
	31	26° 33' 21.982" N	89° 21' 12.993" E
AD_AD1_TR_58	1	26° 32' 56.182" N	89° 20' 51.476" E
	2	26° 32' 49.506" N	89° 20' 45.844" E
	3	26° 32' 43.132" N	89° 20' 36.686" E
	4	26° 32' 42.475" N	89° 20' 36.019" E
	5	26° 32' 41.217" N	89° 20' 34.129" E
	6	26° 32' 40.469" N	89° 20' 32.537" E
	7	26° 32' 37.048" N	89° 20' 28.978" E
	8	26° 32' 36.045" N	89° 20' 27.759" E
	9	26° 32' 35.332" N	89° 20' 25.355" E
	10	26° 32' 37.039" N	89° 20' 25.257" E
	11	26° 32' 39.596" N	89° 20' 26.471" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	12	26° 32' 39.771" N	89° 20' 26.555" E
	13	26° 32' 43.852" N	89° 20' 28.410" E
	14	26° 32' 48.957" N	89° 20' 30.796" E
	15	26° 32' 50.161" N	89° 20' 31.359" E
	16	26° 32' 51.537" N	89° 20' 33.092" E
	17	26° 32' 53.086" N	89° 20' 36.946" E
	18	26° 32' 52.421" N	89° 20' 37.658" E
	19	26° 32' 57.011" N	89° 20' 40.727" E
	20	26° 32' 57.403" N	89° 20' 43.938" E
	21	26° 32' 58.770" N	89° 20' 45.758" E
	22	26° 32' 59.368" N	89° 20' 48.638" E
AD_AD1_TR_59	1	26° 32' 34.702" N	89° 20' 37.528" E
	2	26° 32' 32.016" N	89° 20' 36.687" E
	3	26° 32' 32.643" N	89° 20' 34.853" E
	4	26° 32' 33.340" N	89° 20' 34.293" E
	5	26° 32' 34.972" N	89° 20' 34.326" E
	6	26° 32' 36.944" N	89° 20' 34.653" E
	7	26° 32' 38.426" N	89° 20' 34.635" E
	8	26° 32' 39.756" N	89° 20' 36.139" E
	9	26° 32' 39.689" N	89° 20' 40.252" E
	10	26° 32' 37.611" N	89° 20' 40.302" E
AD_AD1_TR_60	1	26° 32' 32.683" N	89° 20' 49.245" E
	2	26° 32' 30.773" N	89° 20' 48.894" E
	3	26° 32' 30.891" N	89° 20' 47.127" E
	4	26° 32' 26.258" N	89° 20' 47.869" E
	5	26° 32' 25.388" N	89° 20' 47.883" E
	6	26° 32' 22.388" N	89° 20' 47.297" E
	7	26° 32' 18.864" N	89° 20' 47.516" E
	8	26° 32' 16.009" N	89° 20' 47.754" E
	9	26° 32' 15.151" N	89° 20' 47.825" E
	10	26° 32' 9.602" N	89° 20' 47.712" E
	11	26° 32' 7.582" N	89° 20' 47.194" E
	12	26° 32' 3.940" N	89° 20' 46.259" E
	13	26° 32' 0.169" N	89° 20' 45.622" E
	14	26° 31' 55.906" N	89° 20' 44.995" E
	15	26° 31' 49.469" N	89° 20' 44.142" E
	16	26° 31' 45.184" N	89° 20' 39.769" E
	17	26° 31' 40.857" N	89° 20' 35.986" E
	18	26° 31' 35.950" N	89° 20' 31.159" E
	19	26° 31' 31.011" N	89° 20' 25.948" E
	20	26° 31' 30.915" N	89° 20' 25.848" E
	21	26° 31' 32.898" N	89° 20' 26.448" E
	22	26° 31' 36.913" N	89° 20' 30.591" E
	23	26° 31' 43.290" N	89° 20' 34.519" E

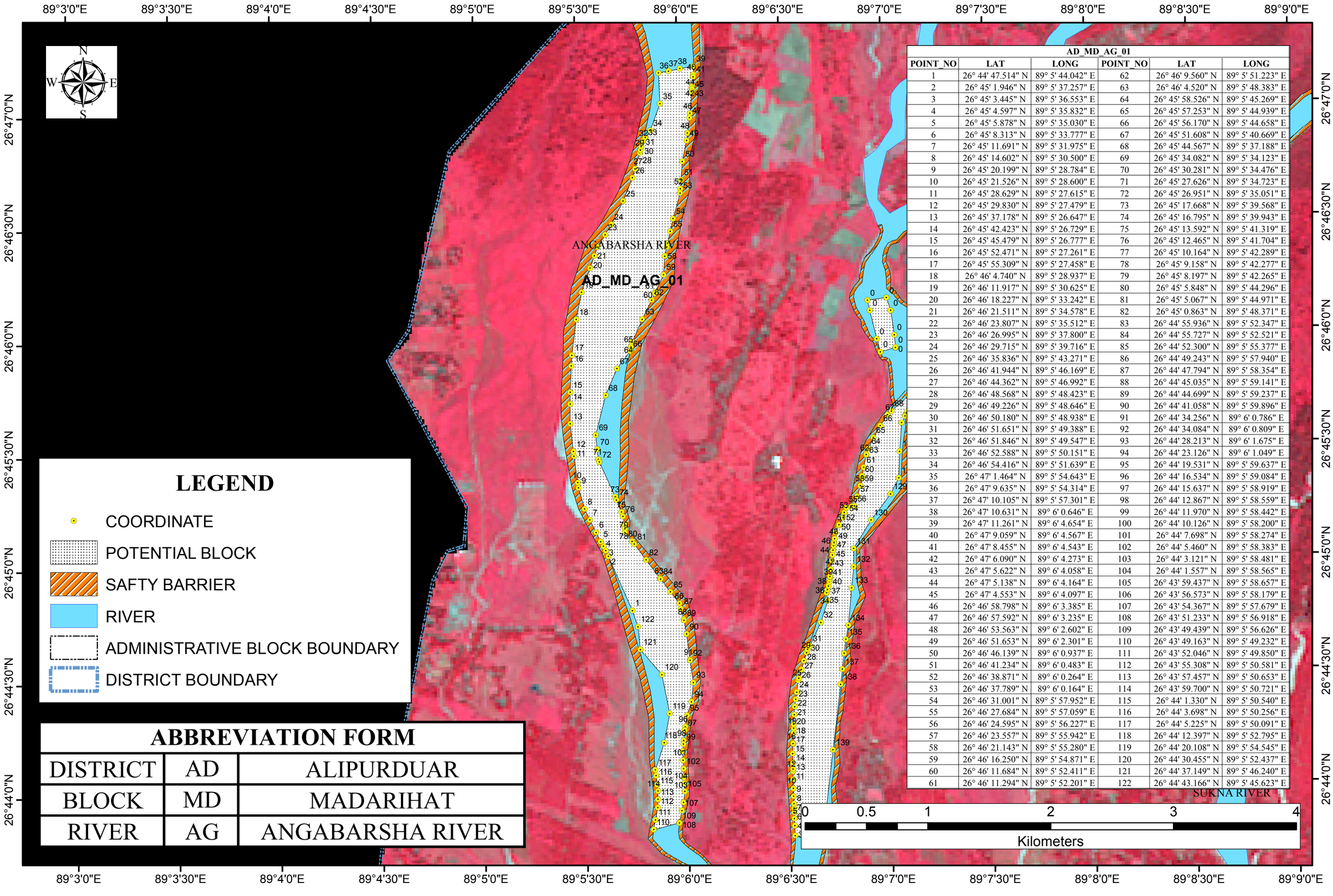
SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	24	26° 31' 45.274" N	89° 20' 34.903" E
	25	26° 31' 48.704" N	89° 20' 35.192" E
	26	26° 31' 49.287" N	89° 20' 35.769" E
	27	26° 31' 49.042" N	89° 20' 35.773" E
	28	26° 31' 57.619" N	89° 20' 39.615" E
	29	26° 32' 5.882" N	89° 20' 40.261" E
	30	26° 32' 16.346" N	89° 20' 44.297" E
	31	26° 32' 20.953" N	89° 20' 43.819" E
	32	26° 32' 22.816" N	89° 20' 41.632" E
	33	26° 32' 24.129" N	89° 20' 41.828" E
	34	26° 32' 27.519" N	89° 20' 38.218" E
	35	26° 32' 31.466" N	89° 20' 38.298" E
	36	26° 32' 40.152" N	89° 20' 45.882" E
	37	26° 32' 43.345" N	89° 20' 47.739" E
	38	26° 32' 45.003" N	89° 20' 49.334" E
	39	26° 32' 42.442" N	89° 20' 49.373" E
	40	26° 32' 37.668" N	89° 20' 49.276" E
AD_AD1_TR_61_62_59	1	26° 32' 30.353" N	89° 20' 32.990" E
	2	26° 32' 28.359" N	89° 20' 34.001" E
	3	26° 32' 27.325" N	89° 20' 34.171" E
	4	26° 32' 24.993" N	89° 20' 34.793" E
	5	26° 32' 23.534" N	89° 20' 34.667" E
	6	26° 32' 20.702" N	89° 20' 34.419" E
	7	26° 32' 19.792" N	89° 20' 33.269" E
	8	26° 32' 18.223" N	89° 20' 31.354" E
	9	26° 32' 17.061" N	89° 20' 32.152" E
	10	26° 32' 14.134" N	89° 20' 33.765" E
	11	26° 32' 13.391" N	89° 20' 33.750" E
	12	26° 32' 3.481" N	89° 20' 34.219" E
	13	26° 31' 59.446" N	89° 20' 32.837" E
	14	26° 31' 55.944" N	89° 20' 32.536" E
	15	26° 31' 53.607" N	89° 20' 32.489" E
	16	26° 31' 51.156" N	89° 20' 30.987" E
	17	26° 31' 50.298" N	89° 20' 28.752" E
	18	26° 31' 48.836" N	89° 20' 27.625" E
	19	26° 31' 43.407" N	89° 20' 27.407" E
	20	26° 31' 40.749" N	89° 20' 25.681" E
	21	26° 31' 34.637" N	89° 20' 24.960" E
	22	26° 31' 27.550" N	89° 20' 18.127" E
	23	26° 31' 25.252" N	89° 20' 16.137" E
	24	26° 31' 22.577" N	89° 20' 13.697" E
	25	26° 31' 18.525" N	89° 20' 11.823" E
	26	26° 31' 16.231" N	89° 20' 8.178" E
	27	26° 31' 12.937" N	89° 20' 5.260" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	28	26° 31' 11.801" N	89° 20' 2.490" E
	29	26° 31' 20.331" N	89° 20' 6.485" E
	30	26° 31' 25.975" N	89° 20' 9.585" E
	31	26° 31' 30.987" N	89° 20' 11.956" E
	32	26° 31' 33.660" N	89° 20' 12.727" E
	33	26° 31' 36.327" N	89° 20' 14.367" E
	34	26° 31' 39.824" N	89° 20' 16.063" E
	35	26° 31' 44.269" N	89° 20' 17.586" E
	36	26° 31' 47.342" N	89° 20' 18.891" E
	37	26° 31' 53.944" N	89° 20' 20.796" E
	38	26° 31' 59.077" N	89° 20' 21.011" E
	39	26° 31' 57.686" N	89° 20' 21.938" E
	40	26° 32' 12.976" N	89° 20' 25.738" E
	41	26° 32' 17.945" N	89° 20' 24.166" E
	42	26° 32' 23.966" N	89° 20' 23.930" E
	43	26° 32' 24.704" N	89° 20' 24.781" E
	44	26° 32' 23.860" N	89° 20' 25.944" E
	45	26° 32' 25.899" N	89° 20' 26.783" E
	46	26° 32' 27.622" N	89° 20' 26.531" E
	47	26° 32' 28.731" N	89° 20' 27.032" E
	48	26° 32' 29.750" N	89° 20' 27.817" E
	49	26° 32' 29.564" N	89° 20' 28.975" E
	50	26° 32' 31.084" N	89° 20' 29.260" E
	51	26° 32' 31.851" N	89° 20' 30.727" E
	52	26° 32' 31.493" N	89° 20' 31.580" E
AD_AD1_TR_63	1	26° 30' 39.051" N	89° 19' 59.649" E
	2	26° 30' 38.865" N	89° 19' 59.270" E
	3	26° 30' 41.288" N	89° 19' 58.745" E
	4	26° 30' 44.156" N	89° 19' 56.827" E
	5	26° 30' 45.635" N	89° 19' 57.831" E
	6	26° 30' 55.231" N	89° 20' 0.834" E
	7	26° 30' 57.995" N	89° 20' 2.094" E
	8	26° 31' 1.615" N	89° 20' 3.878" E
	9	26° 31' 3.434" N	89° 20' 6.170" E
	10	26° 31' 6.338" N	89° 20' 9.101" E
	11	26° 31' 6.096" N	89° 20' 9.140" E
	12	26° 31' 4.585" N	89° 20' 8.435" E
	13	26° 31' 1.941" N	89° 20' 7.207" E
	14	26° 30' 57.867" N	89° 20' 7.448" E
	15	26° 30' 56.721" N	89° 20' 7.508" E
	16	26° 30' 56.679" N	89° 20' 7.494" E
	17	26° 30' 54.351" N	89° 20' 7.618" E
	18	26° 30' 54.351" N	89° 20' 7.618" E
	19	26° 30' 54.172" N	89° 20' 7.525" E

SAND BLOCK CODE	POINT_NO	LATITUDE	LONGITUDE
	20	26° 30' 52.412" N	89° 20' 6.608" E
	21	26° 30' 52.207" N	89° 20' 6.501" E
	22	26° 30' 51.583" N	89° 20' 6.176" E
	23	26° 30' 51.361" N	89° 20' 6.060" E
	24	26° 30' 51.256" N	89° 20' 6.006" E
	25	26° 30' 50.465" N	89° 20' 5.594" E
	26	26° 30' 50.135" N	89° 20' 5.422" E
	27	26° 30' 47.759" N	89° 20' 4.185" E
	28	26° 30' 46.178" N	89° 20' 3.361" E
	29	26° 30' 44.212" N	89° 20' 2.337" E
	30	26° 30' 40.613" N	89° 20' 0.462" E
	31	26° 30' 40.364" N	89° 20' 0.333" E
	32	26° 30' 39.792" N	89° 20' 0.035" E
	33	26° 30' 39.257" N	89° 19' 59.757" E
AD_AD1_TR_65	1	26° 29' 38.902" N	89° 19' 14.162" E
	2	26° 29' 37.237" N	89° 19' 10.785" E
	3	26° 29' 43.136" N	89° 19' 11.501" E
	4	26° 29' 49.590" N	89° 19' 11.033" E
	5	26° 29' 54.201" N	89° 19' 11.604" E
	6	26° 29' 55.119" N	89° 19' 12.384" E
	7	26° 29' 51.838" N	89° 19' 22.965" E
	8	26° 29' 48.132" N	89° 19' 21.393" E
AD_AD1_TR_66	1	26° 29' 21.587" N	89° 19' 14.968" E
	2	26° 29' 17.096" N	89° 19' 11.047" E
	3	26° 29' 20.757" N	89° 19' 11.290" E
	4	26° 29' 21.784" N	89° 19' 12.558" E
	5	26° 29' 23.431" N	89° 19' 12.631" E
	6	26° 29' 24.706" N	89° 19' 13.516" E
	7	26° 29' 25.632" N	89° 19' 14.681" E
	8	26° 29' 27.501" N	89° 19' 16.056" E
	9	26° 29' 27.909" N	89° 19' 17.760" E
	10	26° 29' 28.777" N	89° 19' 17.613" E
	11	26° 29' 36.626" N	89° 19' 18.630" E
	12	26° 29' 39.820" N	89° 19' 21.225" E
	13	26° 29' 39.458" N	89° 19' 21.149" E
	14	26° 29' 39.240" N	89° 19' 21.103" E
	15	26° 29' 35.569" N	89° 19' 20.273" E
	16	26° 29' 32.567" N	89° 19' 19.588" E
	17	26° 29' 29.097" N	89° 19' 18.818" E
	18	26° 29' 25.801" N	89° 19' 18.303" E

Annexure 4
Map showing of Potential Blocks of Alipurduar District

POTENTIAL BLOCK AD_MD_AG_01 OF ANGABARSHA RIVER



LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	MD	MADARIHAT
RIVER	AG	ANGABARSHA RIVER

AD_MD_AG_01					
POINT_NO	LAT	LONG	POINT_NO	LAT	LONG
1	26° 44' 47.514" N	89° 5' 44.042" E	62	26° 46' 9.560" N	89° 5' 51.223" E
2	26° 45' 1.946" N	89° 5' 37.257" E	63	26° 46' 4.520" N	89° 5' 48.383" E
3	26° 45' 3.445" N	89° 5' 36.553" E	64	26° 45' 58.526" N	89° 5' 45.269" E
4	26° 45' 4.597" N	89° 5' 35.832" E	65	26° 45' 57.253" N	89° 5' 44.939" E
5	26° 45' 5.878" N	89° 5' 35.030" E	66	26° 45' 56.170" N	89° 5' 44.658" E
6	26° 45' 8.313" N	89° 5' 33.777" E	67	26° 45' 51.608" N	89° 5' 40.669" E
7	26° 45' 11.691" N	89° 5' 31.975" E	68	26° 45' 44.567" N	89° 5' 37.188" E
8	26° 45' 14.602" N	89° 5' 30.500" E	69	26° 45' 34.082" N	89° 5' 34.123" E
9	26° 45' 20.199" N	89° 5' 28.784" E	70	26° 45' 30.281" N	89° 5' 34.476" E
10	26° 45' 21.526" N	89° 5' 28.600" E	71	26° 45' 27.626" N	89° 5' 34.723" E
11	26° 45' 28.629" N	89° 5' 27.615" E	72	26° 45' 26.951" N	89° 5' 35.051" E
12	26° 45' 29.830" N	89° 5' 27.479" E	73	26° 45' 17.668" N	89° 5' 39.568" E
13	26° 45' 37.178" N	89° 5' 26.647" E	74	26° 45' 16.795" N	89° 5' 39.943" E
14	26° 45' 42.423" N	89° 5' 26.729" E	75	26° 45' 13.592" N	89° 5' 41.319" E
15	26° 45' 45.479" N	89° 5' 26.777" E	76	26° 45' 12.465" N	89° 5' 41.704" E
16	26° 45' 52.471" N	89° 5' 27.261" E	77	26° 45' 10.164" N	89° 5' 42.289" E
17	26° 45' 55.309" N	89° 5' 27.458" E	78	26° 45' 9.158" N	89° 5' 42.277" E
18	26° 46' 4.740" N	89° 5' 28.937" E	79	26° 45' 8.197" N	89° 5' 42.265" E
19	26° 46' 11.917" N	89° 5' 30.625" E	80	26° 45' 5.848" N	89° 5' 44.296" E
20	26° 46' 18.227" N	89° 5' 33.242" E	81	26° 45' 5.067" N	89° 5' 44.971" E
21	26° 46' 21.511" N	89° 5' 34.578" E	82	26° 45' 0.863" N	89° 5' 48.371" E
22	26° 46' 23.807" N	89° 5' 35.512" E	83	26° 44' 55.936" N	89° 5' 52.347" E
23	26° 46' 26.995" N	89° 5' 37.800" E	84	26° 44' 55.727" N	89° 5' 52.521" E
24	26° 46' 29.715" N	89° 5' 39.716" E	85	26° 44' 52.300" N	89° 5' 55.377" E
25	26° 46' 35.836" N	89° 5' 43.271" E	86	26° 44' 49.243" N	89° 5' 57.940" E
26	26° 46' 41.944" N	89° 5' 46.169" E	87	26° 44' 47.794" N	89° 5' 58.354" E
27	26° 46' 44.362" N	89° 5' 46.992" E	88	26° 44' 45.035" N	89° 5' 59.141" E
28	26° 46' 48.568" N	89° 5' 48.423" E	89	26° 44' 44.699" N	89° 5' 59.237" E
29	26° 46' 49.226" N	89° 5' 48.646" E	90	26° 44' 41.058" N	89° 5' 59.896" E
30	26° 46' 50.180" N	89° 5' 48.938" E	91	26° 44' 34.256" N	89° 6' 0.786" E
31	26° 46' 51.651" N	89° 5' 49.388" E	92	26° 44' 34.084" N	89° 6' 0.809" E
32	26° 46' 51.846" N	89° 5' 49.547" E	93	26° 44' 28.213" N	89° 6' 1.675" E
33	26° 46' 52.588" N	89° 5' 50.151" E	94	26° 44' 23.126" N	89° 6' 1.049" E
34	26° 46' 54.416" N	89° 5' 51.639" E	95	26° 44' 19.531" N	89° 5' 59.637" E
35	26° 47' 1.464" N	89° 5' 54.643" E	96	26° 44' 16.534" N	89° 5' 59.084" E
36	26° 47' 9.635" N	89° 5' 54.314" E	97	26° 44' 15.637" N	89° 5' 58.919" E
37	26° 47' 10.105" N	89° 5' 57.301" E	98	26° 44' 12.867" N	89° 5' 58.559" E
38	26° 47' 10.631" N	89° 6' 0.646" E	99	26° 44' 11.970" N	89° 5' 58.442" E
39	26° 47' 11.261" N	89° 6' 4.654" E	100	26° 44' 10.126" N	89° 5' 58.200" E
40	26° 47' 9.059" N	89° 6' 4.567" E	101	26° 44' 7.698" N	89° 5' 58.274" E
41	26° 47' 8.455" N	89° 6' 4.543" E	102	26° 44' 5.460" N	89° 5' 58.383" E
42	26° 47' 6.090" N	89° 6' 4.273" E	103	26° 44' 3.121" N	89° 5' 58.481" E
43	26° 47' 5.622" N	89° 6' 4.058" E	104	26° 44' 1.557" N	89° 5' 58.565" E
44	26° 47' 5.138" N	89° 6' 4.164" E	105	26° 43' 59.437" N	89° 5' 58.657" E
45	26° 47' 4.553" N	89° 6' 4.097" E	106	26° 43' 56.573" N	89° 5' 58.179" E
46	26° 46' 58.798" N	89° 6' 3.385" E	107	26° 43' 54.367" N	89° 5' 57.679" E
47	26° 46' 57.592" N	89° 6' 3.235" E	108	26° 43' 51.233" N	89° 5' 56.918" E
48	26° 46' 53.563" N	89° 6' 2.602" E	109	26° 43' 49.439" N	89° 5' 56.626" E
49	26° 46' 51.653" N	89° 6' 2.301" E	110	26° 43' 49.163" N	89° 5' 49.232" E
50	26° 46' 46.139" N	89° 6' 0.937" E	111	26° 43' 52.046" N	89° 5' 49.850" E
51	26° 46' 41.234" N	89° 6' 0.483" E	112	26° 43' 55.308" N	89° 5' 50.581" E
52	26° 46' 38.871" N	89° 6' 0.264" E	113	26° 43' 57.457" N	89° 5' 50.653" E
53	26° 46' 37.789" N	89° 6' 0.164" E	114	26° 43' 59.700" N	89° 5' 50.721" E
54	26° 46' 31.001" N	89° 5' 57.952" E	115	26° 44' 1.330" N	89° 5' 50.540" E
55	26° 46' 27.684" N	89° 5' 57.059" E	116	26° 44' 3.698" N	89° 5' 50.256" E
56	26° 46' 24.595" N	89° 5' 56.227" E	117	26° 44' 5.225" N	89° 5' 50.091" E
57	26° 46' 23.557" N	89° 5' 55.942" E	118	26° 44' 12.397" N	89° 5' 52.795" E
58	26° 46' 21.143" N	89° 5' 55.280" E	119	26° 44' 20.108" N	89° 5' 54.545" E
59	26° 46' 16.250" N	89° 5' 54.871" E	120	26° 44' 30.455" N	89° 5' 52.437" E
60	26° 46' 11.684" N	89° 5' 52.411" E	121	26° 44' 37.149" N	89° 5' 46.240" E
61	26° 46' 11.294" N	89° 5' 52.201" E	122	26° 44' 43.166" N	89° 5' 45.623" E

POTENTIAL BLOCK AD_MD_BG_01 OF BANGRI RIVER



89°15'0"E 89°15'15"E 89°15'30"E 89°15'45"E 89°16'0"E 89°16'15"E 89°16'30"E 89°16'45"E

26°46'0"N
26°45'45"N
26°45'30"N
26°45'15"N
26°45'0"N

TITLI RIVER

AD_MD_BG_01

BANGRI RIVER

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	MD	MADARIHAT
RIVER	BG	BANGRI

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

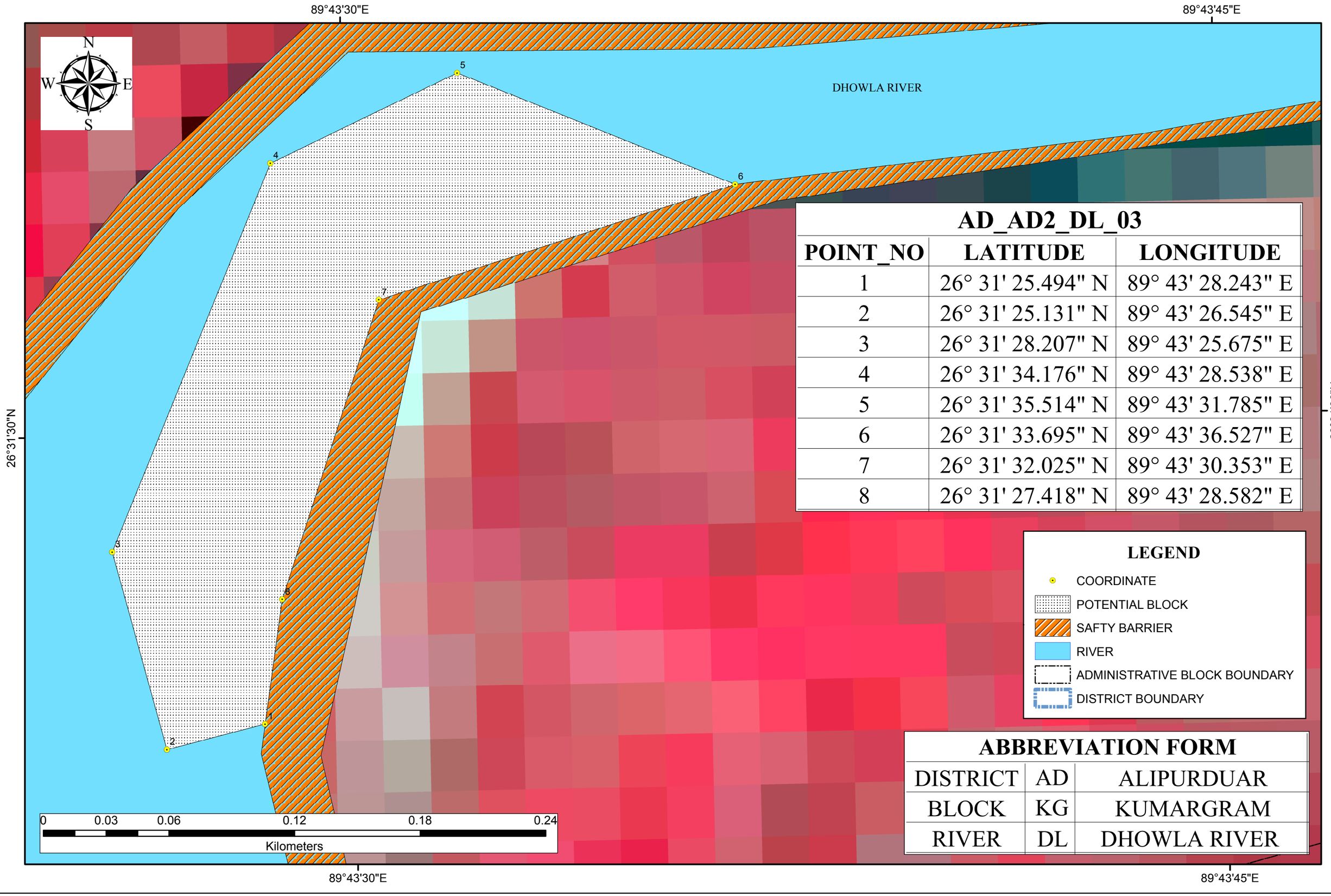
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Kilometers

AD_MD_BG_01

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 45' 2.667" N	89° 15' 50.210" E	27	26° 45' 27.969" N	89° 15' 31.466" E	53	26° 46' 1.046" N	89° 15' 9.021" E	79	26° 45' 46.137" N	89° 15' 16.057" E	105	26° 45' 27.233" N	89° 15' 38.200" E
2	26° 45' 3.535" N	89° 15' 49.308" E	28	26° 45' 32.403" N	89° 15' 28.941" E	54	26° 46' 1.988" N	89° 15' 9.040" E	80	26° 45' 44.540" N	89° 15' 17.045" E	106	26° 45' 26.823" N	89° 15' 39.038" E
3	26° 45' 4.385" N	89° 15' 48.422" E	29	26° 45' 34.854" N	89° 15' 26.482" E	55	26° 46' 3.262" N	89° 15' 9.029" E	81	26° 45' 43.802" N	89° 15' 17.444" E	107	26° 45' 26.409" N	89° 15' 39.899" E
4	26° 45' 5.430" N	89° 15' 47.359" E	30	26° 45' 35.831" N	89° 15' 25.750" E	56	26° 46' 5.027" N	89° 15' 8.347" E	82	26° 45' 42.916" N	89° 15' 17.969" E	108	26° 45' 25.687" N	89° 15' 41.227" E
5	26° 45' 6.340" N	89° 15' 46.385" E	31	26° 45' 36.606" N	89° 15' 25.075" E	57	26° 46' 6.466" N	89° 15' 7.305" E	83	26° 45' 42.100" N	89° 15' 18.453" E	109	26° 45' 25.207" N	89° 15' 42.183" E
6	26° 45' 7.163" N	89° 15' 45.255" E	32	26° 45' 36.533" N	89° 15' 23.215" E	58	26° 46' 7.613" N	89° 15' 6.329" E	84	26° 45' 41.201" N	89° 15' 18.997" E	110	26° 45' 24.430" N	89° 15' 43.974" E
7	26° 45' 8.110" N	89° 15' 44.172" E	33	26° 45' 36.628" N	89° 15' 22.102" E	59	26° 46' 9.318" N	89° 15' 8.365" E	85	26° 45' 40.217" N	89° 15' 19.603" E	111	26° 45' 24.111" N	89° 15' 44.722" E
8	26° 45' 8.746" N	89° 15' 43.448" E	34	26° 45' 37.685" N	89° 15' 20.105" E	60	26° 46' 8.140" N	89° 15' 9.707" E	86	26° 45' 39.452" N	89° 15' 20.074" E	112	26° 45' 23.479" N	89° 15' 46.207" E
9	26° 45' 9.835" N	89° 15' 42.328" E	35	26° 45' 38.952" N	89° 15' 19.004" E	61	26° 46' 6.896" N	89° 15' 11.088" E	87	26° 45' 38.275" N	89° 15' 21.285" E	113	26° 45' 21.837" N	89° 15' 47.082" E
10	26° 45' 11.358" N	89° 15' 41.562" E	36	26° 45' 39.656" N	89° 15' 18.400" E	62	26° 46' 5.656" N	89° 15' 12.391" E	88	26° 45' 38.260" N	89° 15' 22.262" E	114	26° 45' 18.571" N	89° 15' 46.448" E
11	26° 45' 12.312" N	89° 15' 41.084" E	37	26° 45' 40.560" N	89° 15' 17.624" E	63	26° 46' 4.569" N	89° 15' 12.708" E	89	26° 45' 38.233" N	89° 15' 24.480" E	115	26° 45' 16.271" N	89° 15' 46.308" E
12	26° 45' 13.732" N	89° 15' 40.449" E	38	26° 45' 41.486" N	89° 15' 16.927" E	64	26° 46' 3.267" N	89° 15' 12.838" E	90	26° 45' 38.243" N	89° 15' 25.538" E	116	26° 45' 14.567" N	89° 15' 46.261" E
13	26° 45' 14.790" N	89° 15' 40.003" E	39	26° 45' 42.530" N	89° 15' 16.214" E	65	26° 46' 1.914" N	89° 15' 12.968" E	91	26° 45' 37.774" N	89° 15' 26.381" E	117	26° 45' 12.927" N	89° 15' 46.229" E
14	26° 45' 16.284" N	89° 15' 39.383" E	40	26° 45' 43.932" N	89° 15' 15.278" E	66	26° 46' 0.675" N	89° 15' 13.085" E	92	26° 45' 37.031" N	89° 15' 27.641" E	118	26° 45' 11.872" N	89° 15' 46.497" E
15	26° 45' 17.561" N	89° 15' 39.031" E	41	26° 45' 45.640" N	89° 15' 14.127" E	67	26° 45' 59.792" N	89° 15' 13.174" E	93	26° 45' 35.231" N	89° 15' 29.316" E	119	26° 45' 10.250" N	89° 15' 46.913" E
16	26° 45' 18.129" N	89° 15' 38.724" E	42	26° 45' 46.462" N	89° 15' 13.570" E	68	26° 45' 58.798" N	89° 15' 13.370" E	94	26° 45' 34.627" N	89° 15' 29.875" E	120	26° 45' 9.357" N	89° 15' 47.193" E
17	26° 45' 19.359" N	89° 15' 37.611" E	43	26° 45' 47.222" N	89° 15' 13.058" E	69	26° 45' 57.812" N	89° 15' 13.698" E	95	26° 45' 33.480" N	89° 15' 30.930" E	121	26° 45' 8.774" N	89° 15' 47.987" E
18	26° 45' 20.268" N	89° 15' 37.015" E	44	26° 45' 48.983" N	89° 15' 12.522" E	70	26° 45' 55.654" N	89° 15' 14.416" E	96	26° 45' 32.780" N	89° 15' 31.579" E	122	26° 45' 8.068" N	89° 15' 48.959" E
19	26° 45' 21.241" N	89° 15' 36.419" E	45	26° 45' 51.678" N	89° 15' 12.114" E	71	26° 45' 54.783" N	89° 15' 15.029" E	97	26° 45' 32.047" N	89° 15' 32.258" E	123	26° 45' 7.429" N	89° 15' 49.868" E
20	26° 45' 22.029" N	89° 15' 35.918" E	46	26° 45' 54.403" N	89° 15' 11.570" E	72	26° 45' 53.683" N	89° 15' 15.270" E	98	26° 45' 31.347" N	89° 15' 32.902" E	124	26° 45' 6.223" N	89° 15' 51.920" E
21	26° 45' 22.703" N	89° 15' 35.427" E	47	26° 45' 55.026" N	89° 15' 10.554" E	73	26° 45' 52.904" N	89° 15' 15.432" E	99	26° 45' 30.754" N	89° 15' 33.476" E	125	26° 45' 5.692" N	89° 15' 53.045" E
22	26° 45' 23.463" N	89° 15' 34.826" E	48	26° 45' 55.631" N	89° 15' 9.522" E	74	26° 45' 51.991" N	89° 15' 15.622" E	100	26° 45' 30.231" N	89° 15' 34.198" E	126	26° 45' 4.617" N	89° 15' 54.881" E
23	26° 45' 24.372" N	89° 15' 34.154" E	49	26° 45' 56.951" N	89° 15' 9.355" E	75	26° 45' 51.121" N	89° 15' 15.571" E	101	26° 45' 29.561" N	89° 15' 35.109" E	127	26° 45' 1.648" N	89° 15' 51.518" E
24	26° 45' 25.313" N	89° 15' 33.462" E	50	26° 45' 58.037" N	89° 15' 9.217" E	76	26° 45' 49.889" N	89° 15' 15.443" E	102	26° 45' 28.879" N	89° 15' 36.035" E			
25	26° 45' 26.282" N	89° 15' 32.743" E	51	26° 45' 59.164" N	89° 15' 9.098" E	77	26° 45' 48.976" N	89° 15' 15.343" E	103	26° 45' 28.292" N	89° 15' 36.811" E			
26	26° 45' 27.211" N	89° 15' 32.040" E	52	26° 46' 0.049" N	89° 15' 9.044" E	78	26° 45' 47.522" N	89° 15' 15.233" E	104	26° 45' 27.761" N	89° 15' 37.507" E			

POTENTIAL BLOCK AD_KG_SK_24 OF DHOWLA RIVER



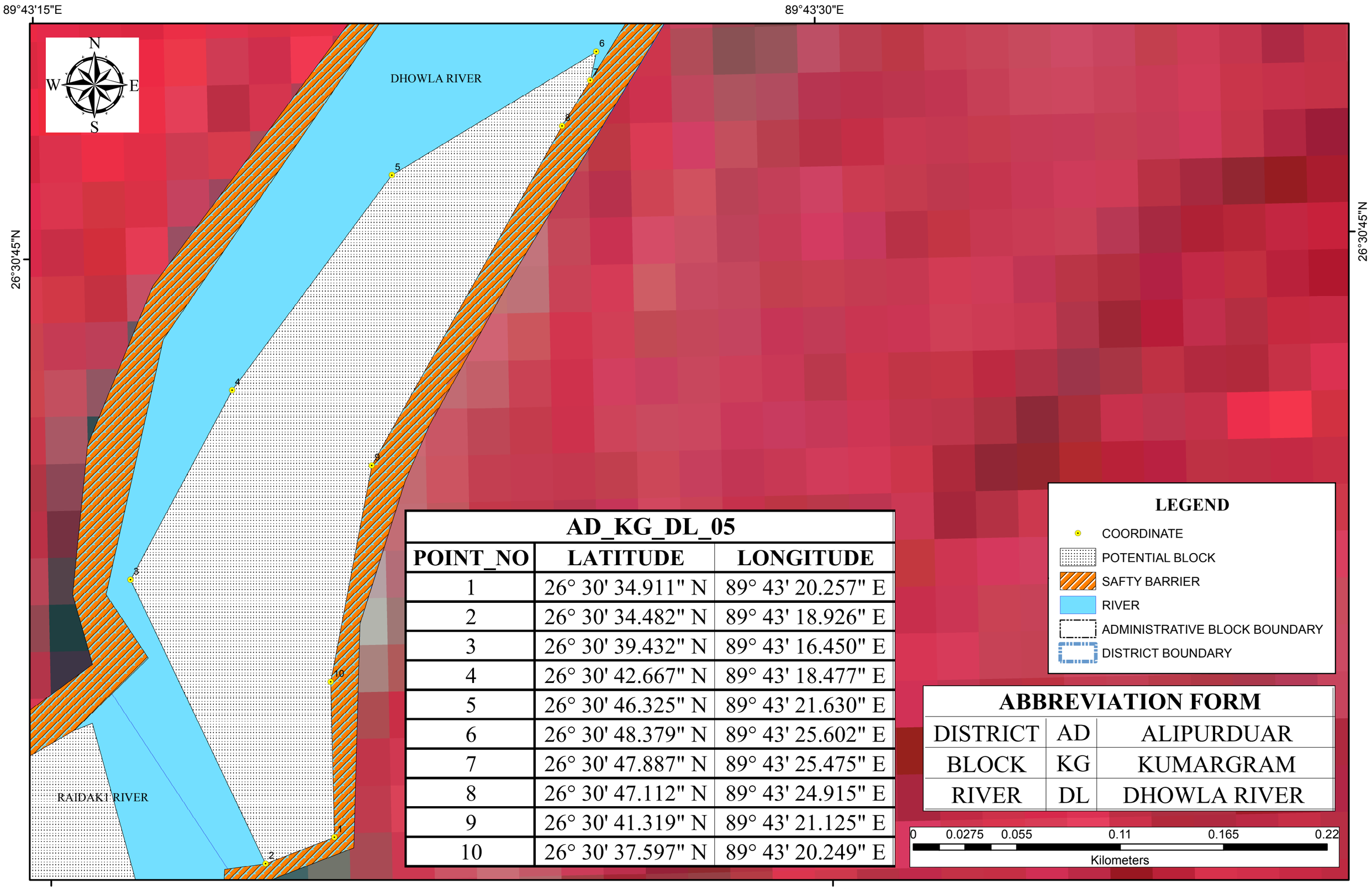
AD_AD2_DL_03		
POINT_NO	LATITUDE	LONGITUDE
1	26° 31' 25.494" N	89° 43' 28.243" E
2	26° 31' 25.131" N	89° 43' 26.545" E
3	26° 31' 28.207" N	89° 43' 25.675" E
4	26° 31' 34.176" N	89° 43' 28.538" E
5	26° 31' 35.514" N	89° 43' 31.785" E
6	26° 31' 33.695" N	89° 43' 36.527" E
7	26° 31' 32.025" N	89° 43' 30.353" E
8	26° 31' 27.418" N	89° 43' 28.582" E

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	DL	DHOWLA RIVER

POTENTIAL BLOCK AD_KG_DL_05 OF DHOWLA RIVER



AD_KG_DL_05		
POINT_NO	LATITUDE	LONGITUDE
1	26° 30' 34.911" N	89° 43' 20.257" E
2	26° 30' 34.482" N	89° 43' 18.926" E
3	26° 30' 39.432" N	89° 43' 16.450" E
4	26° 30' 42.667" N	89° 43' 18.477" E
5	26° 30' 46.325" N	89° 43' 21.630" E
6	26° 30' 48.379" N	89° 43' 25.602" E
7	26° 30' 47.887" N	89° 43' 25.475" E
8	26° 30' 47.112" N	89° 43' 24.915" E
9	26° 30' 41.319" N	89° 43' 21.125" E
10	26° 30' 37.597" N	89° 43' 20.249" E

LEGEND

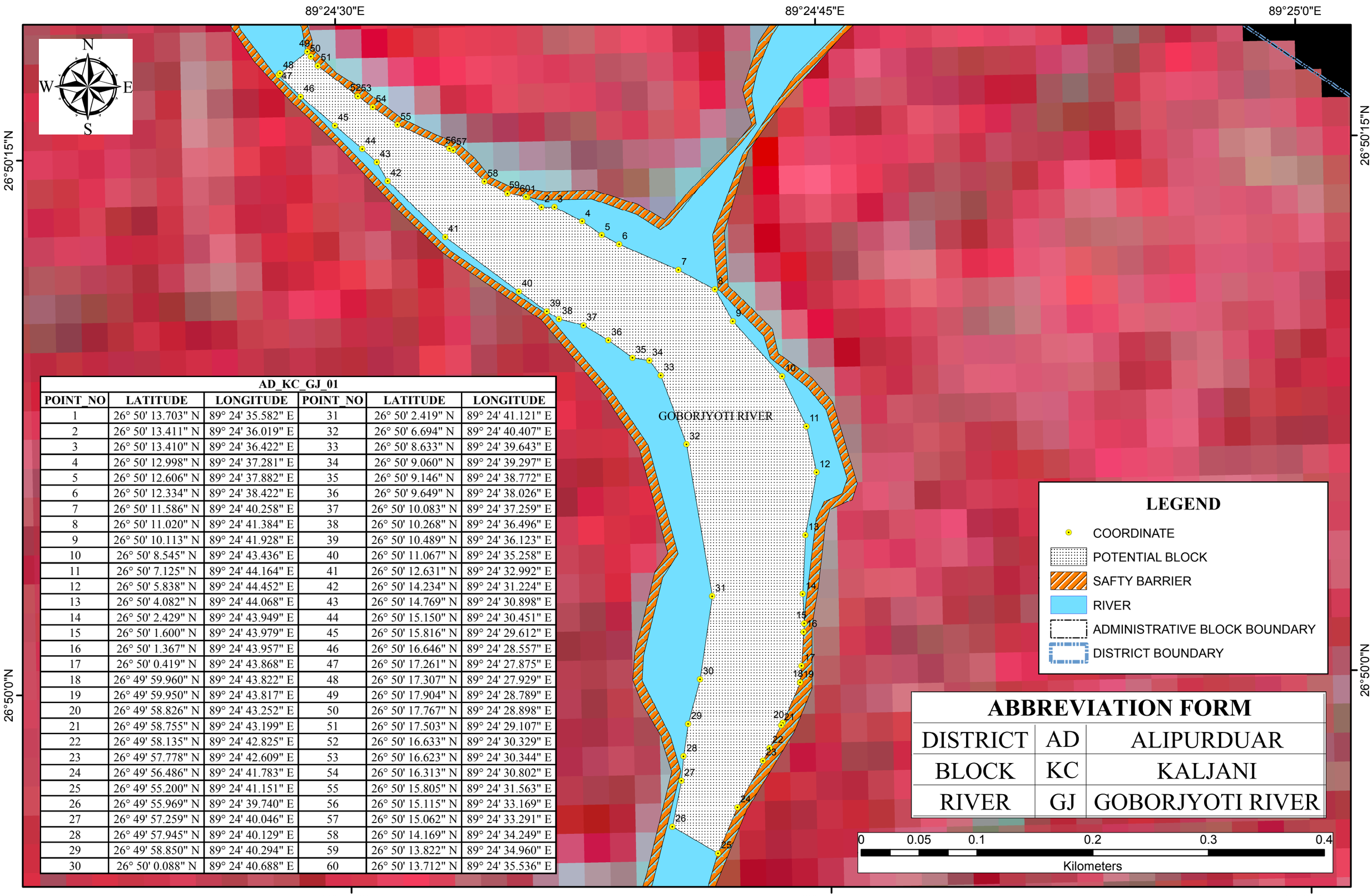
- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	DL	DHOWLA RIVER

0 0.0275 0.055 0.11 0.165 0.22

Kilometers

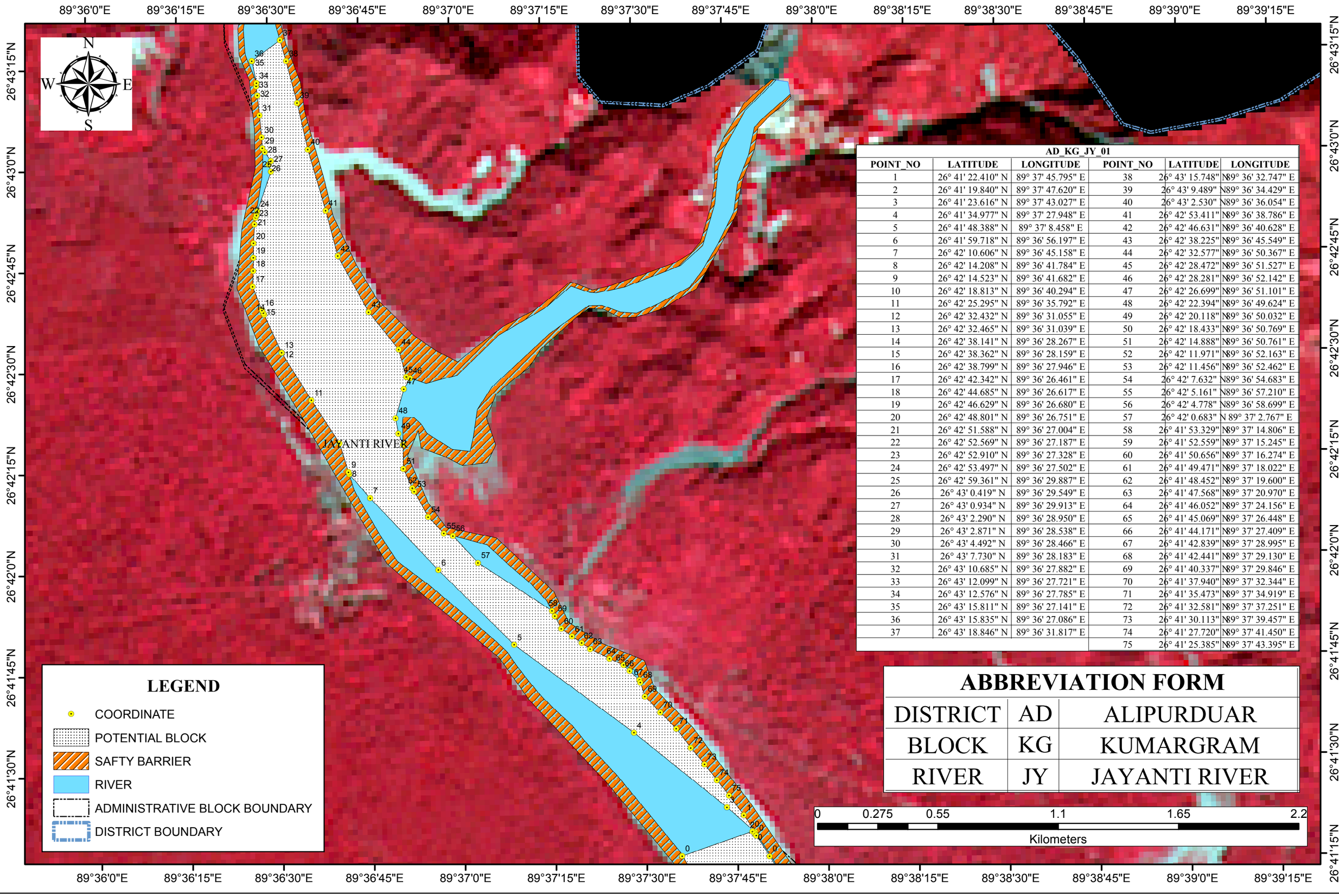
POTENTIAL BLOCK AD_KC_GJ_01 OF GOBORJYOTI RIVER



AD_KC_GJ_01					
POINT_NO	LATITUDE	LONGITUDE	POINT_NO	LATITUDE	LONGITUDE
1	26° 50' 13.703" N	89° 24' 35.582" E	31	26° 50' 2.419" N	89° 24' 41.121" E
2	26° 50' 13.411" N	89° 24' 36.019" E	32	26° 50' 6.694" N	89° 24' 40.407" E
3	26° 50' 13.410" N	89° 24' 36.422" E	33	26° 50' 8.633" N	89° 24' 39.643" E
4	26° 50' 12.998" N	89° 24' 37.281" E	34	26° 50' 9.060" N	89° 24' 39.297" E
5	26° 50' 12.606" N	89° 24' 37.882" E	35	26° 50' 9.146" N	89° 24' 38.772" E
6	26° 50' 12.334" N	89° 24' 38.422" E	36	26° 50' 9.649" N	89° 24' 38.026" E
7	26° 50' 11.586" N	89° 24' 40.258" E	37	26° 50' 10.083" N	89° 24' 37.259" E
8	26° 50' 11.020" N	89° 24' 41.384" E	38	26° 50' 10.268" N	89° 24' 36.496" E
9	26° 50' 10.113" N	89° 24' 41.928" E	39	26° 50' 10.489" N	89° 24' 36.123" E
10	26° 50' 8.545" N	89° 24' 43.436" E	40	26° 50' 11.067" N	89° 24' 35.258" E
11	26° 50' 7.125" N	89° 24' 44.164" E	41	26° 50' 12.631" N	89° 24' 32.992" E
12	26° 50' 5.838" N	89° 24' 44.452" E	42	26° 50' 14.234" N	89° 24' 31.224" E
13	26° 50' 4.082" N	89° 24' 44.068" E	43	26° 50' 14.769" N	89° 24' 30.898" E
14	26° 50' 2.429" N	89° 24' 43.949" E	44	26° 50' 15.150" N	89° 24' 30.451" E
15	26° 50' 1.600" N	89° 24' 43.979" E	45	26° 50' 15.816" N	89° 24' 29.612" E
16	26° 50' 1.367" N	89° 24' 43.957" E	46	26° 50' 16.646" N	89° 24' 28.557" E
17	26° 50' 0.419" N	89° 24' 43.868" E	47	26° 50' 17.261" N	89° 24' 27.875" E
18	26° 49' 59.960" N	89° 24' 43.822" E	48	26° 50' 17.307" N	89° 24' 27.929" E
19	26° 49' 59.950" N	89° 24' 43.817" E	49	26° 50' 17.904" N	89° 24' 28.789" E
20	26° 49' 58.826" N	89° 24' 43.252" E	50	26° 50' 17.767" N	89° 24' 28.898" E
21	26° 49' 58.755" N	89° 24' 43.199" E	51	26° 50' 17.503" N	89° 24' 29.107" E
22	26° 49' 58.135" N	89° 24' 42.825" E	52	26° 50' 16.633" N	89° 24' 30.329" E
23	26° 49' 57.778" N	89° 24' 42.609" E	53	26° 50' 16.623" N	89° 24' 30.344" E
24	26° 49' 56.486" N	89° 24' 41.783" E	54	26° 50' 16.313" N	89° 24' 30.802" E
25	26° 49' 55.200" N	89° 24' 41.151" E	55	26° 50' 15.805" N	89° 24' 31.563" E
26	26° 49' 55.969" N	89° 24' 39.740" E	56	26° 50' 15.115" N	89° 24' 33.169" E
27	26° 49' 57.259" N	89° 24' 40.046" E	57	26° 50' 15.062" N	89° 24' 33.291" E
28	26° 49' 57.945" N	89° 24' 40.129" E	58	26° 50' 14.169" N	89° 24' 34.249" E
29	26° 49' 58.850" N	89° 24' 40.294" E	59	26° 50' 13.822" N	89° 24' 34.960" E
30	26° 50' 0.088" N	89° 24' 40.688" E	60	26° 50' 13.712" N	89° 24' 35.536" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALJANI
RIVER	GJ	GOBORJYOTI RIVER

POTENTIAL BLOCK AD_KG_JY_01 OF JAYANTI RIVER



AD_KG_JY_01					
POINT_NO	LATITUDE	LONGITUDE	POINT_NO	LATITUDE	LONGITUDE
1	26° 41' 22.410" N	89° 37' 45.795" E	38	26° 43' 15.748" N	89° 36' 32.747" E
2	26° 41' 19.840" N	89° 37' 47.620" E	39	26° 43' 9.489" N	89° 36' 34.429" E
3	26° 41' 23.616" N	89° 37' 43.027" E	40	26° 43' 2.530" N	89° 36' 36.054" E
4	26° 41' 34.977" N	89° 37' 27.948" E	41	26° 42' 53.411" N	89° 36' 38.786" E
5	26° 41' 48.388" N	89° 37' 8.458" E	42	26° 42' 46.631" N	89° 36' 40.628" E
6	26° 41' 59.718" N	89° 36' 56.197" E	43	26° 42' 38.225" N	89° 36' 45.549" E
7	26° 42' 10.606" N	89° 36' 45.158" E	44	26° 42' 32.577" N	89° 36' 50.367" E
8	26° 42' 14.208" N	89° 36' 41.784" E	45	26° 42' 28.472" N	89° 36' 51.527" E
9	26° 42' 14.523" N	89° 36' 41.682" E	46	26° 42' 28.281" N	89° 36' 52.142" E
10	26° 42' 18.813" N	89° 36' 40.294" E	47	26° 42' 26.699" N	89° 36' 51.101" E
11	26° 42' 25.295" N	89° 36' 35.792" E	48	26° 42' 22.394" N	89° 36' 49.624" E
12	26° 42' 32.432" N	89° 36' 31.055" E	49	26° 42' 20.118" N	89° 36' 50.032" E
13	26° 42' 32.465" N	89° 36' 31.039" E	50	26° 42' 18.433" N	89° 36' 50.769" E
14	26° 42' 38.141" N	89° 36' 28.267" E	51	26° 42' 14.888" N	89° 36' 50.761" E
15	26° 42' 38.362" N	89° 36' 28.159" E	52	26° 42' 11.971" N	89° 36' 52.163" E
16	26° 42' 38.799" N	89° 36' 27.946" E	53	26° 42' 11.456" N	89° 36' 52.462" E
17	26° 42' 42.342" N	89° 36' 26.461" E	54	26° 42' 7.632" N	89° 36' 54.683" E
18	26° 42' 44.685" N	89° 36' 26.617" E	55	26° 42' 5.161" N	89° 36' 57.210" E
19	26° 42' 46.629" N	89° 36' 26.680" E	56	26° 42' 4.778" N	89° 36' 58.699" E
20	26° 42' 48.801" N	89° 36' 26.751" E	57	26° 42' 0.683" N	89° 37' 2.767" E
21	26° 42' 51.588" N	89° 36' 27.004" E	58	26° 41' 53.329" N	89° 37' 14.806" E
22	26° 42' 52.569" N	89° 36' 27.187" E	59	26° 41' 52.559" N	89° 37' 15.245" E
23	26° 42' 52.910" N	89° 36' 27.328" E	60	26° 41' 50.656" N	89° 37' 16.274" E
24	26° 42' 53.497" N	89° 36' 27.502" E	61	26° 41' 49.471" N	89° 37' 18.022" E
25	26° 42' 59.361" N	89° 36' 29.887" E	62	26° 41' 48.452" N	89° 37' 19.600" E
26	26° 43' 0.419" N	89° 36' 29.549" E	63	26° 41' 47.568" N	89° 37' 20.970" E
27	26° 43' 0.934" N	89° 36' 29.913" E	64	26° 41' 46.052" N	89° 37' 24.156" E
28	26° 43' 2.290" N	89° 36' 28.950" E	65	26° 41' 45.069" N	89° 37' 26.448" E
29	26° 43' 2.871" N	89° 36' 28.538" E	66	26° 41' 44.171" N	89° 37' 27.409" E
30	26° 43' 4.492" N	89° 36' 28.466" E	67	26° 41' 42.839" N	89° 37' 28.995" E
31	26° 43' 7.730" N	89° 36' 28.183" E	68	26° 41' 42.441" N	89° 37' 29.130" E
32	26° 43' 10.685" N	89° 36' 27.882" E	69	26° 41' 40.337" N	89° 37' 29.846" E
33	26° 43' 12.099" N	89° 36' 27.721" E	70	26° 41' 37.940" N	89° 37' 32.344" E
34	26° 43' 12.576" N	89° 36' 27.785" E	71	26° 41' 35.473" N	89° 37' 34.919" E
35	26° 43' 15.811" N	89° 36' 27.141" E	72	26° 41' 32.581" N	89° 37' 37.251" E
36	26° 43' 15.835" N	89° 36' 27.086" E	73	26° 41' 30.113" N	89° 37' 39.457" E
37	26° 43' 18.846" N	89° 36' 31.817" E	74	26° 41' 27.720" N	89° 37' 41.450" E
			75	26° 41' 25.385" N	89° 37' 43.395" E

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	JY	JAYANTI RIVER

0 0.275 0.55 1.1 1.65 2.2
Kilometers

POTENTIAL BLOCK AD_KC_JY_02 OF JAYANTI RIVER

89°37'0"E 89°37'15"E 89°37'30"E 89°37'45"E 89°38'0"E 89°38'15"E 89°38'30"E 89°38'45"E 89°39'0"E 89°39'15"E 89°39'30"E 89°39'45"E 89°40'0"E 89°40'15"E

26°41'15"N 26°41'0"N 26°40'45"N 26°40'30"N 26°40'15"N 26°40'0"N 26°39'45"N 26°39'30"N

N W E S

JAYANTI RIVER

AD_KC_JY_02					
POINT_NO	LATITUDE	LONGITUDE	POINT_NO	LATITUDE	LONGITUDE
1	26° 39' 33.801" N	89° 38' 47.747" E	51	26° 41' 19.676" N	89° 37' 47.548" E
2	26° 39' 28.987" N	89° 38' 45.714" E	52	26° 41' 19.362" N	89° 37' 47.771" E
3	26° 39' 30.248" N	89° 38' 44.820" E	53	26° 41' 16.267" N	89° 37' 49.919" E
4	26° 39' 24.705" N	89° 38' 41.826" E	54	26° 41' 13.213" N	89° 37' 51.910" E
5	26° 39' 25.169" N	89° 38' 41.506" E	55	26° 41' 12.230" N	89° 37' 52.445" E
6	26° 39' 26.246" N	89° 38' 41.087" E	56	26° 41' 9.914" N	89° 37' 53.706" E
7	26° 39' 27.655" N	89° 38' 40.542" E	57	26° 41' 5.853" N	89° 37' 55.918" E
8	26° 39' 29.187" N	89° 38' 39.879" E	58	26° 41' 2.906" N	89° 37' 57.914" E
9	26° 39' 30.598" N	89° 38' 39.616" E	59	26° 40' 59.606" N	89° 38' 0.241" E
10	26° 39' 34.596" N	89° 38' 39.906" E	60	26° 40' 59.301" N	89° 38' 0.234" E
11	26° 39' 35.473" N	89° 38' 38.391" E	61	26° 40' 57.966" N	89° 38' 1.422" E
12	26° 39' 36.052" N	89° 38' 38.219" E	62	26° 40' 55.556" N	89° 38' 3.232" E
13	26° 39' 37.400" N	89° 38' 37.820" E	63	26° 40' 52.183" N	89° 38' 5.770" E
14	26° 39' 38.603" N	89° 38' 36.613" E	64	26° 40' 48.978" N	89° 38' 8.462" E
15	26° 39' 40.069" N	89° 38' 34.935" E	65	26° 40' 46.847" N	89° 38' 10.395" E
16	26° 39' 41.594" N	89° 38' 34.295" E	66	26° 40' 42.125" N	89° 38' 11.081" E
17	26° 39' 42.716" N	89° 38' 33.868" E	67	26° 40' 38.595" N	89° 38' 16.022" E
18	26° 39' 44.976" N	89° 38' 33.920" E	68	26° 40' 37.968" N	89° 38' 17.166" E
19	26° 39' 49.960" N	89° 38' 31.970" E	69	26° 40' 34.782" N	89° 38' 20.260" E
20	26° 39' 51.157" N	89° 38' 31.997" E	70	26° 40' 34.598" N	89° 38' 20.438" E
21	26° 39' 58.318" N	89° 38' 32.793" E	71	26° 40' 31.449" N	89° 38' 23.510" E
22	26° 40' 5.853" N	89° 38' 32.010" E	72	26° 40' 31.432" N	89° 38' 23.527" E
23	26° 40' 10.224" N	89° 38' 28.045" E	73	26° 40' 28.676" N	89° 38' 25.257" E
24	26° 40' 10.407" N	89° 38' 27.807" E	74	26° 40' 28.770" N	89° 38' 24.406" E
25	26° 40' 11.375" N	89° 38' 27.532" E	75	26° 40' 33.387" N	89° 38' 18.773" E
26	26° 40' 13.730" N	89° 38' 24.083" E	76	26° 40' 36.076" N	89° 38' 12.855" E
27	26° 40' 15.525" N	89° 38' 21.167" E	77	26° 40' 36.156" N	89° 38' 8.552" E
28	26° 40' 18.024" N	89° 38' 18.051" E	78	26° 40' 27.427" N	89° 38' 15.765" E
29	26° 40' 20.166" N	89° 38' 16.123" E	79	26° 40' 20.815" N	89° 38' 24.702" E
30	26° 40' 21.104" N	89° 38' 15.280" E	80	26° 40' 18.806" N	89° 38' 28.721" E
31	26° 40' 21.714" N	89° 38' 14.740" E	81	26° 40' 21.157" N	89° 38' 30.034" E
32	26° 40' 28.625" N	89° 38' 9.096" E	82	26° 40' 19.010" N	89° 38' 31.230" E
33	26° 40' 29.375" N	89° 38' 7.664" E	83	26° 40' 14.989" N	89° 38' 33.432" E
34	26° 40' 30.115" N	89° 38' 6.981" E	84	26° 40' 10.413" N	89° 38' 35.463" E
35	26° 40' 30.815" N	89° 38' 6.335" E	85	26° 40' 7.993" N	89° 38' 36.716" E
36	26° 40' 34.346" N	89° 38' 3.274" E	86	26° 40' 5.083" N	89° 38' 38.404" E
37	26° 40' 37.817" N	89° 38' 0.214" E	87	26° 40' 1.187" N	89° 38' 40.679" E
38	26° 40' 41.971" N	89° 37' 56.675" E	88	26° 39' 58.670" N	89° 38' 42.134" E
39	26° 40' 45.956" N	89° 37' 53.860" E	89	26° 39' 58.246" N	89° 38' 42.144" E
40	26° 40' 49.520" N	89° 37' 51.373" E	90	26° 39' 56.440" N	89° 38' 41.833" E
41	26° 40' 50.329" N	89° 37' 50.809" E	91	26° 39' 55.019" N	89° 38' 41.603" E
42	26° 40' 56.301" N	89° 37' 48.206" E	92	26° 39' 53.264" N	89° 38' 41.334" E
43	26° 41' 3.302" N	89° 37' 43.051" E	93	26° 39' 52.297" N	89° 38' 41.173" E
44	26° 41' 4.156" N	89° 37' 42.599" E	94	26° 39' 48.542" N	89° 38' 38.546" E
45	26° 41' 7.536" N	89° 37' 40.814" E	95	26° 39' 47.896" N	89° 38' 38.665" E
46	26° 41' 10.355" N	89° 37' 39.280" E	96	26° 39' 46.823" N	89° 38' 37.934" E
47	26° 41' 10.552" N	89° 37' 39.173" E	97	26° 39' 45.855" N	89° 38' 38.544" E
48	26° 41' 13.464" N	89° 37' 37.568" E	98	26° 39' 44.936" N	89° 38' 39.123" E
49	26° 41' 16.563" N	89° 37' 35.482" E	99	26° 39' 44.756" N	89° 38' 39.240" E
50	26° 41' 20.003" N	89° 37' 47.150" E	100	26° 39' 39.271" N	89° 38' 40.245" E
			101	26° 39' 35.614" N	89° 38' 45.260" E

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	JY	JAYANTI RIVER

0 0.275 0.55 1.1 1.65 2.2

Kilometers

POTENTIAL BLOCK AD_AD2_JY_03 OF JAYANTI RIVER

AD_AD2_JY_03					
POINT_NO	LATITUDE	LONGITUDE	POINT_NO	LATITUDE	LONGITUDE
1	26° 37' 10.924" N	89° 40' 24.108" E	63	26° 35' 25.066" N	89° 40' 45.915" E
2	26° 37' 10.136" N	89° 40' 39.744" E	64	26° 35' 25.208" N	89° 40' 45.999" E
3	26° 37' 8.723" N	89° 40' 38.395" E	65	26° 35' 27.098" N	89° 40' 47.116" E
4	26° 37' 7.622" N	89° 40' 37.399" E	66	26° 35' 27.720" N	89° 40' 47.130" E
5	26° 37' 7.206" N	89° 40' 35.503" E	67	26° 35' 30.305" N	89° 40' 46.779" E
6	26° 36' 58.820" N	89° 40' 35.515" E	68	26° 35' 32.577" N	89° 40' 46.345" E
7	26° 36' 56.320" N	89° 40' 36.090" E	69	26° 35' 34.963" N	89° 40' 46.400" E
8	26° 36' 55.000" N	89° 40' 36.711" E	70	26° 35' 36.837" N	89° 40' 46.368" E
9	26° 36' 53.063" N	89° 40' 37.007" E	71	26° 35' 39.285" N	89° 40' 46.449" E
10	26° 36' 48.771" N	89° 40' 37.661" E	72	26° 35' 41.319" N	89° 40' 46.771" E
11	26° 36' 46.682" N	89° 40' 37.916" E	73	26° 35' 43.147" N	89° 40' 47.057" E
12	26° 36' 46.359" N	89° 40' 37.798" E	74	26° 35' 44.837" N	89° 40' 47.064" E
13	26° 36' 44.659" N	89° 40' 37.174" E	75	26° 35' 46.064" N	89° 40' 46.639" E
14	26° 36' 43.806" N	89° 40' 36.842" E	76	26° 35' 46.134" N	89° 40' 46.615" E
15	26° 36' 43.143" N	89° 40' 35.420" E	77	26° 35' 47.041" N	89° 40' 46.301" E
16	26° 36' 38.750" N	89° 40' 34.873" E	78	26° 35' 48.036" N	89° 40' 45.957" E
17	26° 36' 36.432" N	89° 40' 34.011" E	79	26° 35' 50.095" N	89° 40' 45.228" E
18	26° 36' 33.901" N	89° 40' 33.212" E	80	26° 35' 51.983" N	89° 40' 44.567" E
19	26° 36' 32.018" N	89° 40' 32.866" E	81	26° 35' 54.147" N	89° 40' 44.357" E
20	26° 36' 30.061" N	89° 40' 32.787" E	82	26° 35' 56.073" N	89° 40' 44.172" E
21	26° 36' 27.934" N	89° 40' 32.738" E	83	26° 35' 57.610" N	89° 40' 43.989" E
22	26° 36' 27.020" N	89° 40' 33.282" E	84	26° 35' 57.824" N	89° 40' 44.039" E
23	26° 36' 19.321" N	89° 40' 33.909" E	85	26° 35' 58.812" N	89° 40' 44.267" E
24	26° 36' 18.341" N	89° 40' 40.340" E	86	26° 35' 58.832" N	89° 40' 44.272" E
25	26° 36' 16.112" N	89° 40' 44.590" E	87	26° 36' 0.057" N	89° 40' 44.552" E
26	26° 36' 11.922" N	89° 40' 46.952" E	88	26° 36' 0.574" N	89° 40' 44.229" E
27	26° 36' 10.935" N	89° 40' 46.475" E	89	26° 36' 1.077" N	89° 40' 44.041" E
28	26° 36' 9.616" N	89° 40' 47.292" E	90	26° 36' 1.544" N	89° 40' 44.211" E
29	26° 36' 8.634" N	89° 40' 48.101" E	91	26° 36' 4.390" N	89° 40' 43.138" E
30	26° 36' 6.881" N	89° 40' 48.061" E	92	26° 36' 6.628" N	89° 40' 44.835" E
31	26° 36' 4.731" N	89° 40' 48.716" E	93	26° 36' 6.868" N	89° 40' 44.853" E
32	26° 36' 2.994" N	89° 40' 49.681" E	94	26° 36' 11.826" N	89° 40' 44.012" E
33	26° 36' 2.719" N	89° 40' 49.838" E	95	26° 36' 12.320" N	89° 40' 40.922" E
34	26° 36' 2.039" N	89° 40' 49.678" E	96	26° 36' 13.340" N	89° 40' 40.866" E
35	26° 36' 0.258" N	89° 40' 49.907" E	97	26° 36' 13.699" N	89° 40' 38.398" E
36	26° 35' 57.915" N	89° 40' 49.262" E	98	26° 36' 14.048" N	89° 40' 35.227" E
37	26° 35' 53.010" N	89° 40' 50.505" E	99	26° 36' 14.469" N	89° 40' 31.289" E
38	26° 35' 49.156" N	89° 40' 52.789" E	100	26° 36' 15.926" N	89° 40' 28.289" E
39	26° 35' 48.883" N	89° 40' 52.841" E	101	26° 36' 17.966" N	89° 40' 27.187" E
40	26° 35' 46.559" N	89° 40' 53.261" E	102	26° 36' 21.548" N	89° 40' 25.350" E
41	26° 35' 45.131" N	89° 40' 53.520" E	103	26° 36' 24.269" N	89° 40' 25.100" E
42	26° 35' 43.121" N	89° 40' 55.207" E	104	26° 36' 25.179" N	89° 40' 25.017" E
43	26° 35' 41.135" N	89° 40' 55.119" E	105	26° 36' 28.283" N	89° 40' 24.785" E
44	26° 35' 39.025" N	89° 40' 55.070" E	106	26° 36' 28.636" N	89° 40' 24.678" E
45	26° 35' 36.907" N	89° 40' 54.964" E	107	26° 36' 28.761" N	89° 40' 24.641" E
46	26° 35' 34.775" N	89° 40' 54.918" E	108	26° 36' 33.667" N	89° 40' 25.160" E
47	26° 35' 32.572" N	89° 40' 54.869" E	109	26° 36' 38.405" N	89° 40' 24.553" E
48	26° 35' 30.153" N	89° 40' 54.839" E	110	26° 36' 43.748" N	89° 40' 26.112" E
49	26° 35' 27.575" N	89° 40' 54.791" E	111	26° 36' 45.156" N	89° 40' 26.407" E
50	26° 35' 27.304" N	89° 40' 54.781" E	112	26° 36' 45.889" N	89° 40' 26.857" E
51	26° 35' 27.806" N	89° 40' 53.980" E	113	26° 36' 47.486" N	89° 40' 27.514" E
52	26° 35' 28.276" N	89° 40' 51.840" E	114	26° 36' 48.796" N	89° 40' 27.904" E
53	26° 35' 22.508" N	89° 40' 50.033" E	115	26° 36' 52.781" N	89° 40' 27.594" E
54	26° 35' 14.258" N	89° 40' 52.880" E	116	26° 36' 53.492" N	89° 40' 27.523" E
55	26° 35' 13.256" N	89° 40' 52.286" E	117	26° 36' 55.582" N	89° 40' 27.675" E
56	26° 35' 15.269" N	89° 40' 46.519" E	118	26° 36' 56.826" N	89° 40' 27.438" E
57	26° 35' 17.466" N	89° 40' 45.623" E	119	26° 37' 0.005" N	89° 40' 27.336" E
58	26° 35' 18.745" N	89° 40' 44.547" E	120	26° 37' 1.498" N	89° 40' 26.771" E
59	26° 35' 20.181" N	89° 40' 44.539" E	121	26° 37' 2.283" N	89° 40' 26.707" E
60	26° 35' 23.597" N	89° 40' 45.249" E	122	26° 37' 3.579" N	89° 40' 26.601" E
61	26° 35' 24.084" N	89° 40' 45.702" E	123	26° 37' 7.820" N	89° 40' 25.968" E
62	26° 35' 24.333" N	89° 40' 45.932" E	124	26° 37' 9.184" N	89° 40' 25.018" E
			125	26° 37' 10.345" N	89° 40' 24.227" E

89°38'45"E 89°39'0"E 89°39'15"E 89°39'30"E 89°39'45"E 89°40'0"E 89°40'15"E 89°40'30"E 89°40'45"E 89°41'0"E 89°41'15"E 89°41'30"E 89°41'45"E 89°42'0"E 89°42'15"E 89°42'30"E 89°42'45"E

26°37'15"N 26°37'0"N 26°36'45"N 26°36'30"N 26°36'15"N 26°36'0"N 26°35'45"N 26°35'30"N 26°35'15"N 26°35'0"N

TURTURI RIVER

JAYANTI RIVER

N W E S

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

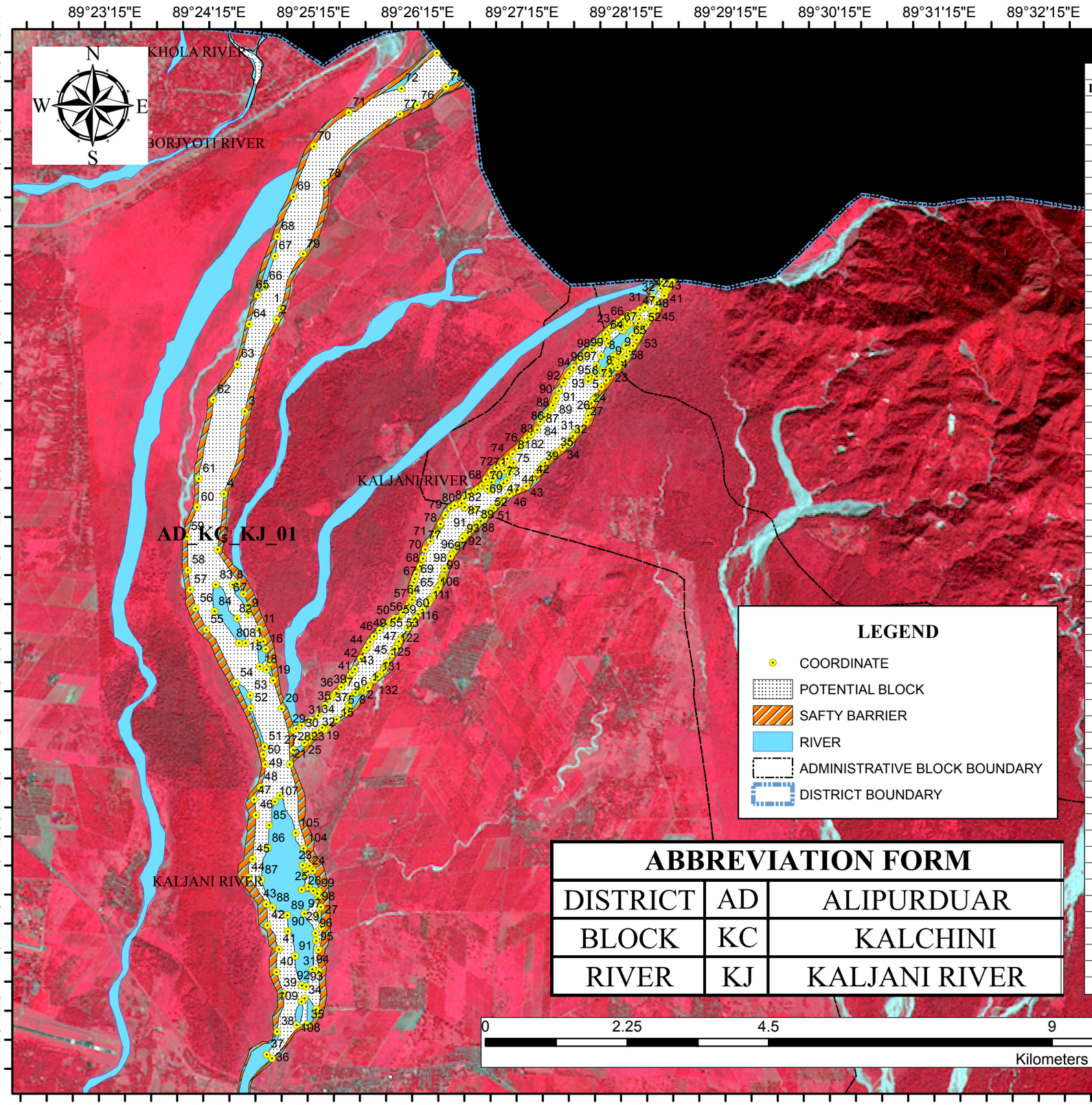
ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	AD2	ALIPURDUAR 2
RIVER	JY	JAYANTI RIVER

0 0.325 0.65 1.3 1.95 2.6

Kilometers

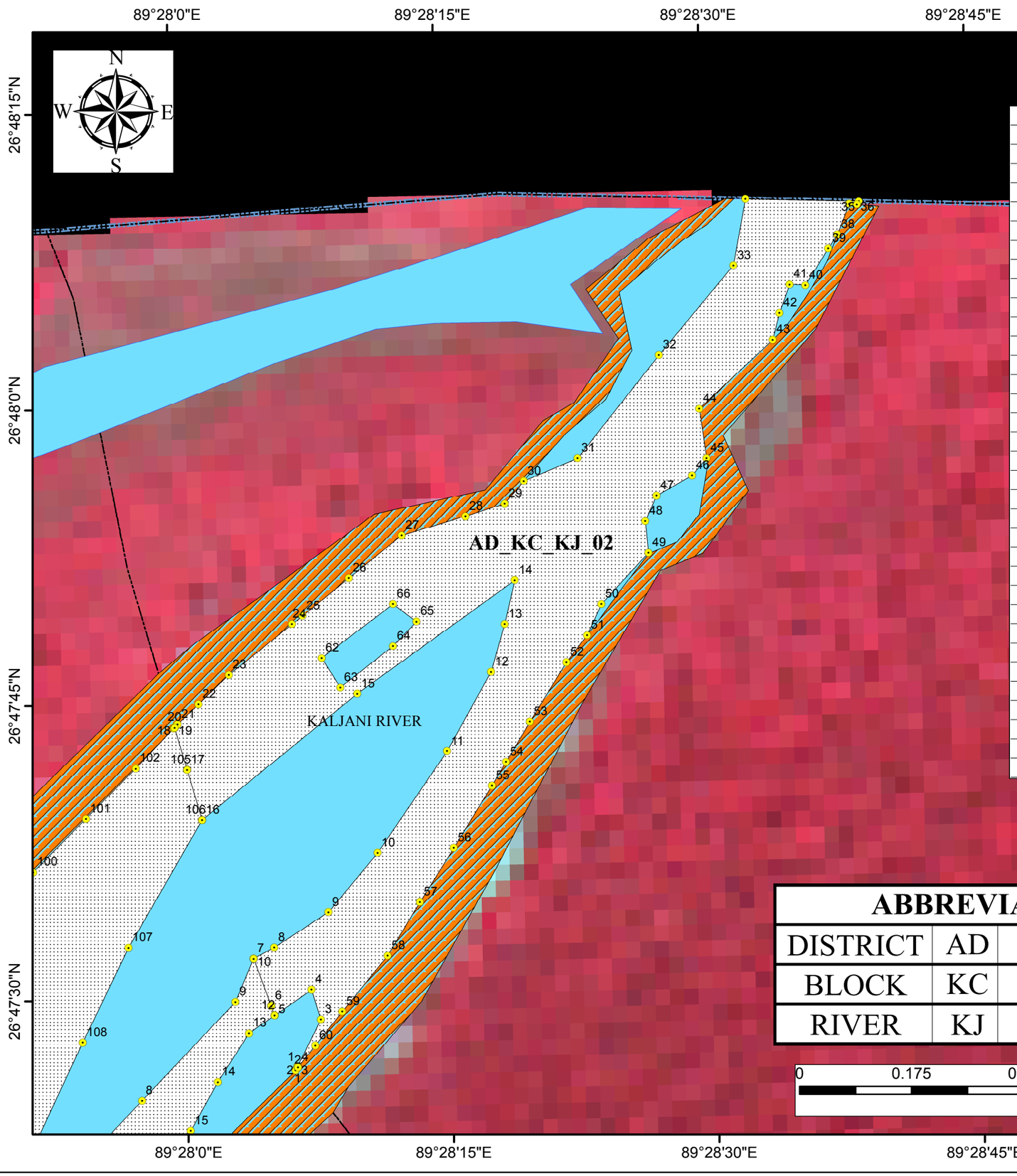
POTENTIAL BLOCK AD_KC_KJ_01 OF KALJANI RIVER



AD_KC_KJ_01					
POINT_NO	LATITUDE	LONGITUDE	POINT_NO	LATITUDE	LONGITUDE
1	26° 47' 59.937" N	89° 24' 52.961" E	55	26° 45' 15.281" N	89° 24' 6.661" E
2	26° 47' 54.394" N	89° 24' 50.316" E	56	26° 45' 26.282" N	89° 24' 0.801" E
3	26° 47' 7.353" N	89° 24' 31.114" E	57	26° 45' 35.994" N	89° 23' 57.810" E
4	26° 46' 25.025" N	89° 24' 18.146" E	58	26° 45' 46.129" N	89° 23' 56.702" E
5	26° 45' 56.358" N	89° 24' 13.860" E	59	26° 46' 3.372" N	89° 23' 56.567" E
6	26° 45' 33.236" N	89° 24' 28.326" E	60	26° 46' 18.610" N	89° 24' 2.650" E
7	26° 45' 38.446" N	89° 24' 24.751" E	61	26° 46' 33.202" N	89° 24' 3.878" E
8	26° 45' 38.057" N	89° 24' 22.349" E	62	26° 47' 13.908" N	89° 24' 13.143" E
9	26° 45' 23.085" N	89° 24' 30.890" E	63	26° 47' 31.861" N	89° 24' 27.429" E
10	26° 45' 27.162" N	89° 24' 31.106" E	64	26° 47' 52.428" N	89° 24' 34.671" E
11	26° 45' 15.060" N	89° 24' 36.958" E	65	26° 48' 7.393" N	89° 24' 39.855" E
12	26° 45' 8.549" N	89° 24' 39.184" E	66	26° 48' 11.973" N	89° 24' 44.275" E
13	26° 45' 9.033" N	89° 24' 35.860" E	67	26° 48' 27.345" N	89° 24' 50.109" E
14	26° 44' 55.690" N	89° 24' 37.014" E	68	26° 48' 37.442" N	89° 24' 51.879" E
15	26° 45' 4.441" N	89° 24' 40.550" E	69	26° 48' 58.024" N	89° 25' 1.375" E
16	26° 45' 4.450" N	89° 24' 40.584" E	70	26° 49' 23.740" N	89° 25' 13.791" E
17	26° 44' 57.396" N	89° 24' 42.769" E	71	26° 49' 40.871" N	89° 25' 34.217" E
18	26° 44' 53.907" N	89° 24' 40.806" E	72	26° 49' 52.665" N	89° 26' 4.733" E
19	26° 44' 48.446" N	89° 24' 44.517" E	73	26° 50' 10.725" N	89° 26' 25.538" E
20	26° 44' 33.603" N	89° 24' 49.083" E	74	26° 49' 59.672" N	89° 26' 35.807" E
21	26° 44' 4.880" N	89° 24' 53.026" E	75	26° 49' 52.739" N	89° 26' 30.429" E
22	26° 43' 9.716" N	89° 25' 5.266" E	76	26° 49' 43.479" N	89° 26' 13.599" E
23	26° 43' 12.114" N	89° 25' 3.283" E	77	26° 49' 39.206" N	89° 26' 3.552" E
24	26° 43' 9.336" N	89° 25' 2.386" E	78	26° 49' 4.411" N	89° 25' 19.205" E
25	26° 43' 1.379" N	89° 25' 2.697" E	79	26° 48' 28.130" N	89° 25' 6.359" E
26	26° 42' 58.917" N	89° 25' 8.317" E	80	26° 45' 7.497" N	89° 24' 25.056" E
27	26° 42' 50.911" N	89° 25' 9.463" E	81	26° 45' 7.558" N	89° 24' 29.075" E
28	26° 42' 46.904" N	89° 25' 7.296" E	82	26° 45' 20.402" N	89° 24' 24.371" E
29	26° 42' 40.457" N	89° 25' 9.472" E	83	26° 45' 38.009" N	89° 24' 12.534" E
30	26° 42' 28.813" N	89° 25' 7.658" E	84	26° 45' 24.273" N	89° 24' 11.527" E
31	26° 42' 17.701" N	89° 25' 7.554" E	85	26° 43' 33.451" N	89° 24' 40.641" E
32	26° 41' 55.605" N	89° 25' 5.786" E	86	26° 43' 21.756" N	89° 24' 39.677" E
33	26° 41' 58.154" N	89° 25' 5.548" E	87	26° 43' 5.285" N	89° 24' 35.261" E
34	26° 42' 3.958" N	89° 24' 59.091" E	88	26° 42' 50.886" N	89° 24' 41.658" E
35	26° 41' 50.192" N	89° 25' 0.117" E	89	26° 42' 46.662" N	89° 24' 49.944" E
36	26° 41' 33.162" N	89° 24' 39.713" E	90	26° 42' 38.386" N	89° 24' 50.128" E
37	26° 41' 35.158" N	89° 24' 36.726" E	91	26° 42' 25.533" N	89° 24' 54.044" E
38	26° 41' 46.906" N	89° 24' 42.925" E	92	26° 42' 10.431" N	89° 24' 57.553" E
39	26° 42' 6.635" N	89° 24' 47.013" E	93	26° 42' 9.637" N	89° 25' 0.049" E
40	26° 42' 17.726" N	89° 24' 43.119" E	94	26° 42' 18.383" N	89° 25' 3.822" E
41	26° 42' 29.414" N	89° 24' 44.883" E	95	26° 42' 33.273" N	89° 25' 6.410" E
42	26° 42' 41.829" N	89° 24' 38.483" E	96	26° 42' 37.148" N	89° 25' 6.013" E
43	26° 42' 52.971" N	89° 24' 38.115" E	97	26° 42' 47.471" N	89° 24' 59.782" E
44	26° 43' 6.954" N	89° 24' 28.284" E	98	26° 42' 54.845" N	89° 25' 7.823" E
45	26° 43' 16.238" N	89° 24' 30.712" E	99	26° 42' 57.751" N	89° 25' 7.526" E
46	26° 43' 38.845" N	89° 24' 33.159" E	100	26° 42' 59.081" N	89° 25' 5.161" E
47	26° 43' 47.083" N	89° 24' 32.320" E	101	26° 42' 59.732" N	89° 24' 58.475" E
48	26° 43' 53.157" N	89° 24' 36.109" E	102	26° 43' 7.757" N	89° 25' 0.439" E
49	26° 44' 4.974" N	89° 24' 39.157" E	103	26° 43' 12.394" N	89° 24' 59.460" E
50	26° 44' 10.054" N	89° 24' 38.093" E	104	26° 43' 21.086" N	89° 25' 0.122" E
51	26° 44' 14.183" N	89° 24' 39.011" E	105	26° 43' 29.065" N	89° 24' 55.687" E
52	26° 44' 34.299" N	89° 24' 31.298" E	106	26° 43' 48.491" N	89° 24' 47.061" E
53	26° 44' 40.962" N	89° 24' 31.199" E	107	26° 43' 45.533" N	89° 24' 44.127" E
54	26° 44' 47.364" N	89° 24' 23.173" E	108	26° 41' 49.968" N	89° 24' 54.131" E
			109	26° 42' 2.163" N	89° 24' 57.259" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	KJ	KALJANI RIVER

POTENTIAL BLOCK AD_KC_KJ_02 OF KALJANI RIVER



AD_KC_KJ_02					
POINT_NO	LATITUDE	LONGITUDE	POINT_NO	LATITUDE	LONGITUDE
1	26° 47' 26.411" N	89° 28' 5.937" E	34	26° 48' 10.033" N	89° 28' 32.165" E
2	26° 47' 26.447" N	89° 28' 5.908" E	35	26° 48' 9.807" N	89° 28' 38.583" E
3	26° 47' 28.805" N	89° 28' 7.286" E	36	26° 48' 9.648" N	89° 28' 38.464" E
4	26° 47' 30.327" N	89° 28' 6.783" E	37	26° 48' 9.686" N	89° 28' 38.028" E
5	26° 47' 29.065" N	89° 28' 4.675" E	38	26° 48' 8.130" N	89° 28' 37.323" E
6	26° 47' 29.542" N	89° 28' 4.490" E	39	26° 48' 7.440" N	89° 28' 36.804" E
7	26° 47' 31.968" N	89° 28' 3.545" E	40	26° 48' 5.597" N	89° 28' 35.464" E
8	26° 47' 32.502" N	89° 28' 4.726" E	41	26° 48' 5.657" N	89° 28' 34.581" E
9	26° 47' 34.253" N	89° 28' 7.829" E	42	26° 48' 4.223" N	89° 28' 33.975" E
10	26° 47' 37.212" N	89° 28' 10.671" E	43	26° 48' 2.865" N	89° 28' 33.553" E
11	26° 47' 42.298" N	89° 28' 14.708" E	44	26° 47' 59.444" N	89° 28' 29.335" E
12	26° 47' 46.293" N	89° 28' 17.285" E	45	26° 47' 56.930" N	89° 28' 29.689" E
13	26° 47' 48.685" N	89° 28' 18.103" E	46	26° 47' 56.061" N	89° 28' 28.856" E
14	26° 47' 50.909" N	89° 28' 18.726" E	47	26° 47' 55.065" N	89° 28' 26.823" E
15	26° 47' 45.308" N	89° 28' 9.697" E	48	26° 47' 53.788" N	89° 28' 26.163" E
16	26° 47' 39.050" N	89° 28' 0.787" E	49	26° 47' 52.187" N	89° 28' 26.301" E
17	26° 47' 41.623" N	89° 28' 0.000" E	50	26° 47' 49.621" N	89° 28' 23.582" E
18	26° 47' 43.765" N	89° 27' 59.335" E	51	26° 47' 48.057" N	89° 28' 22.745" E
19	26° 47' 43.778" N	89° 27' 59.331" E	52	26° 47' 46.702" N	89° 28' 21.547" E
20	26° 47' 43.790" N	89° 27' 59.344" E	53	26° 47' 43.715" N	89° 28' 19.419" E
21	26° 47' 43.921" N	89° 27' 59.502" E	54	26° 47' 41.709" N	89° 28' 18.030" E
22	26° 47' 44.931" N	89° 28' 0.716" E	55	26° 47' 40.528" N	89° 28' 17.212" E
23	26° 47' 46.379" N	89° 28' 2.454" E	56	26° 47' 37.384" N	89° 28' 14.984" E
24	26° 47' 48.888" N	89° 28' 6.086" E	57	26° 47' 34.666" N	89° 28' 13.005" E
25	26° 47' 49.312" N	89° 28' 6.689" E	58	26° 47' 31.984" N	89° 28' 11.123" E
26	26° 47' 51.175" N	89° 28' 9.346" E	59	26° 47' 29.193" N	89° 28' 8.507" E
27	26° 47' 53.299" N	89° 28' 12.379" E	60	26° 47' 27.505" N	89° 28' 6.948" E
28	26° 47' 54.206" N	89° 28' 16.007" E	61	26° 47' 26.411" N	89° 28' 5.937" E
29	26° 47' 54.794" N	89° 28' 18.232" E	62	26° 47' 47.148" N	89° 28' 7.725" E
30	26° 47' 55.935" N	89° 28' 19.328" E	63	26° 47' 45.634" N	89° 28' 8.746" E
31	26° 47' 57.034" N	89° 28' 22.402" E	64	26° 47' 47.696" N	89° 28' 11.779" E
32	26° 48' 2.194" N	89° 28' 27.112" E	65	26° 47' 48.910" N	89° 28' 13.127" E
33	26° 48' 6.674" N	89° 28' 31.423" E	66	26° 47' 49.827" N	89° 28' 11.806" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	KJ	KALJANI RIVER

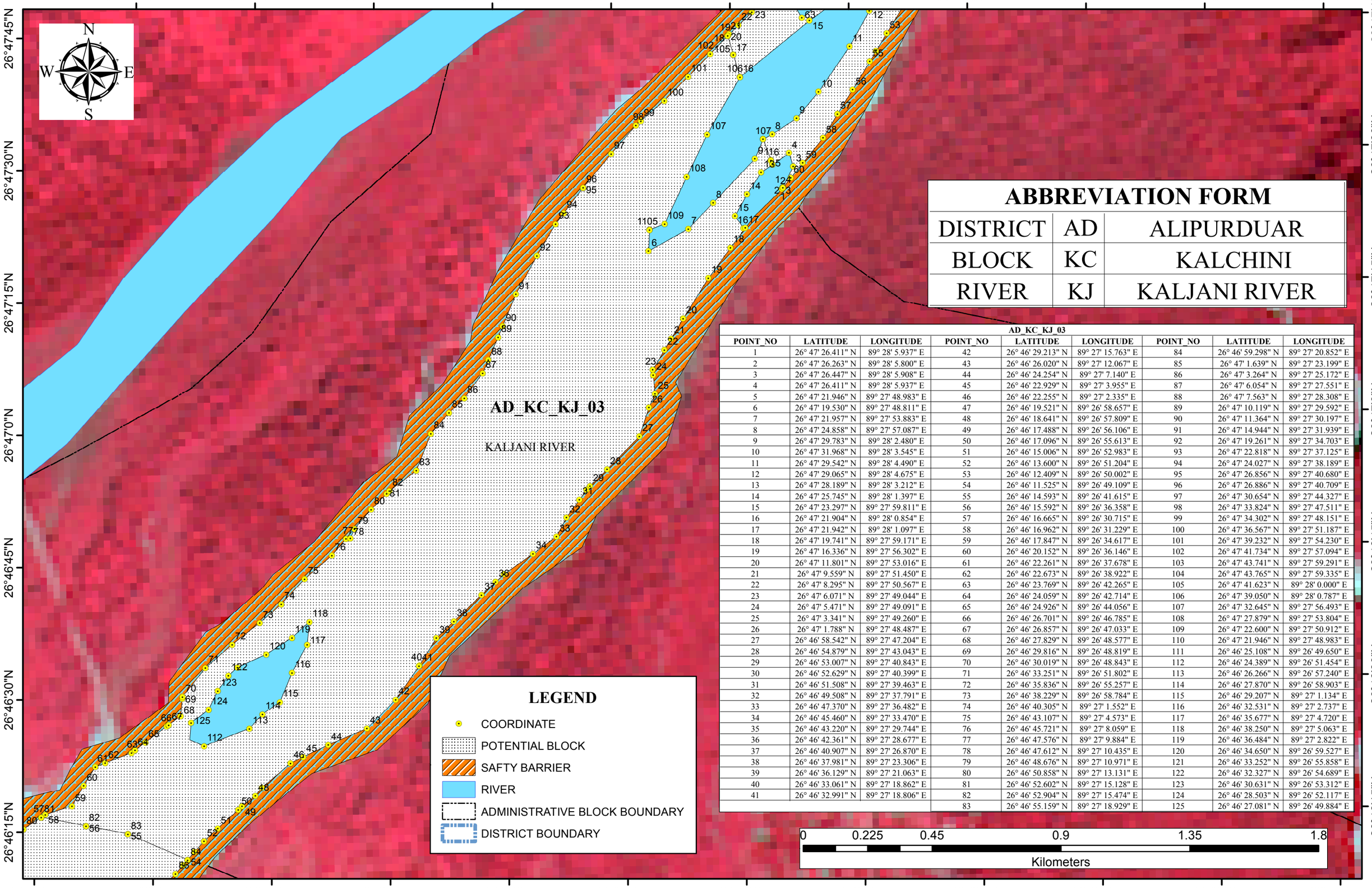
LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.175 0.35 0.7 1.05 1.4

Kilometers

POTENTIAL BLOCK AD_KC_KJ_03 OF KALJANI RIVER

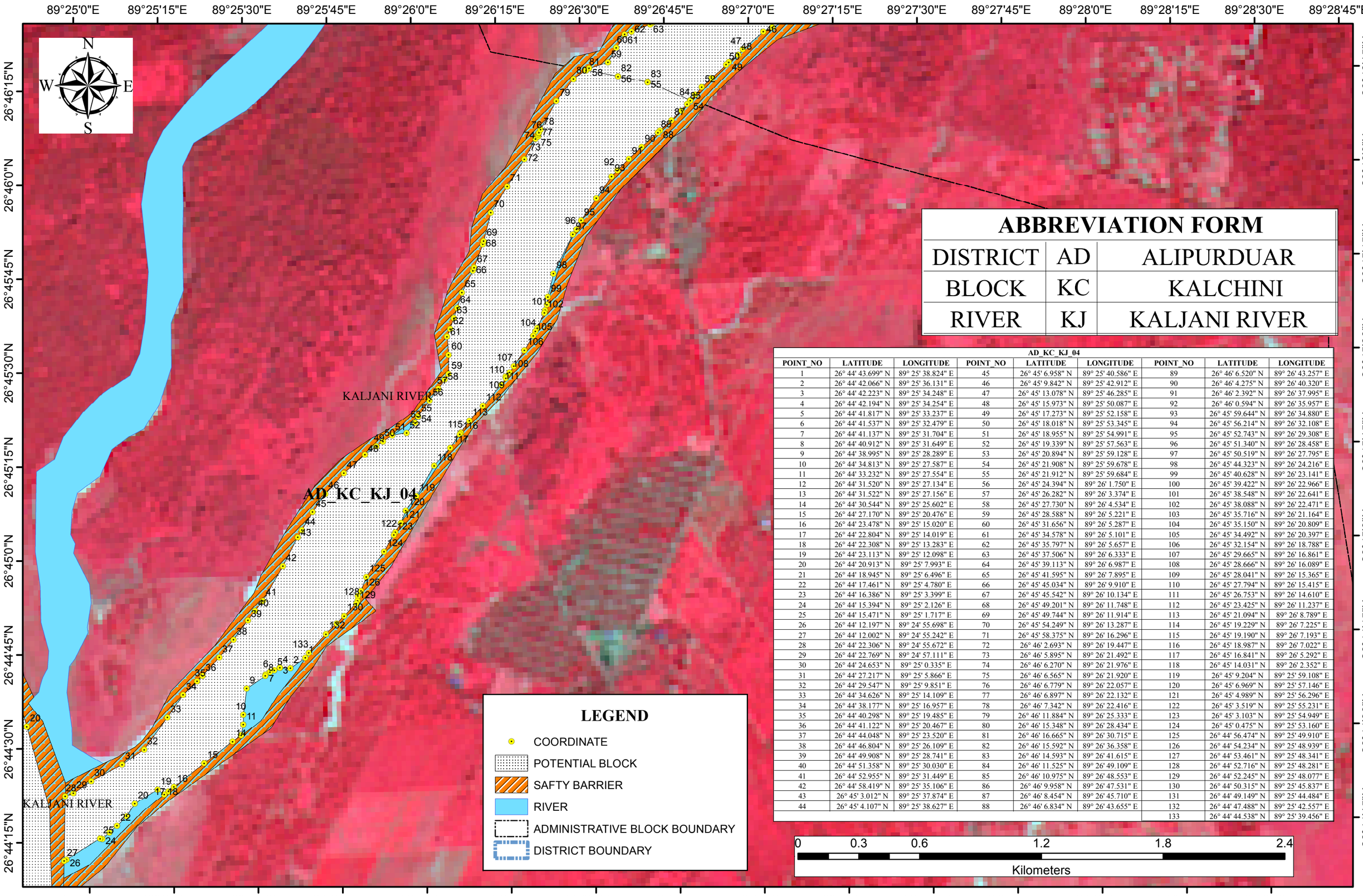


ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	KJ	KALJANI RIVER

AD_KC_KJ_03

POINT_NO	LATITUDE	LONGITUDE	POINT_NO	LATITUDE	LONGITUDE	POINT_NO	LATITUDE	LONGITUDE
1	26° 47' 26.411" N	89° 28' 5.937" E	42	26° 46' 29.213" N	89° 27' 15.763" E	84	26° 46' 59.298" N	89° 27' 20.852" E
2	26° 47' 26.263" N	89° 28' 5.800" E	43	26° 46' 26.020" N	89° 27' 12.067" E	85	26° 47' 1.639" N	89° 27' 23.199" E
3	26° 47' 26.447" N	89° 28' 5.908" E	44	26° 46' 24.254" N	89° 27' 7.140" E	86	26° 47' 3.264" N	89° 27' 25.172" E
4	26° 47' 26.411" N	89° 28' 5.937" E	45	26° 46' 22.929" N	89° 27' 3.955" E	87	26° 47' 6.054" N	89° 27' 27.551" E
5	26° 47' 21.946" N	89° 27' 48.983" E	46	26° 46' 22.255" N	89° 27' 2.335" E	88	26° 47' 7.563" N	89° 27' 28.308" E
6	26° 47' 19.530" N	89° 27' 48.811" E	47	26° 46' 19.521" N	89° 26' 58.657" E	89	26° 47' 10.119" N	89° 27' 29.592" E
7	26° 47' 21.957" N	89° 27' 53.883" E	48	26° 46' 18.641" N	89° 26' 57.809" E	90	26° 47' 11.364" N	89° 27' 30.197" E
8	26° 47' 24.858" N	89° 27' 57.087" E	49	26° 46' 17.488" N	89° 26' 56.106" E	91	26° 47' 14.944" N	89° 27' 31.939" E
9	26° 47' 29.783" N	89° 28' 2.480" E	50	26° 46' 17.096" N	89° 26' 55.613" E	92	26° 47' 19.261" N	89° 27' 34.703" E
10	26° 47' 31.968" N	89° 28' 3.545" E	51	26° 46' 15.006" N	89° 26' 52.983" E	93	26° 47' 22.818" N	89° 27' 37.125" E
11	26° 47' 29.542" N	89° 28' 4.490" E	52	26° 46' 13.600" N	89° 26' 51.204" E	94	26° 47' 24.027" N	89° 27' 38.189" E
12	26° 47' 29.065" N	89° 28' 4.675" E	53	26° 46' 12.409" N	89° 26' 50.002" E	95	26° 47' 26.856" N	89° 27' 40.680" E
13	26° 47' 28.189" N	89° 28' 3.212" E	54	26° 46' 11.525" N	89° 26' 49.109" E	96	26° 47' 26.886" N	89° 27' 40.709" E
14	26° 47' 25.745" N	89° 28' 1.397" E	55	26° 46' 14.593" N	89° 26' 41.615" E	97	26° 47' 30.654" N	89° 27' 44.327" E
15	26° 47' 23.297" N	89° 27' 59.811" E	56	26° 46' 15.592" N	89° 26' 36.358" E	98	26° 47' 33.824" N	89° 27' 47.511" E
16	26° 47' 21.904" N	89° 28' 0.854" E	57	26° 46' 16.665" N	89° 26' 30.715" E	99	26° 47' 34.302" N	89° 27' 48.151" E
17	26° 47' 21.942" N	89° 28' 1.097" E	58	26° 46' 16.962" N	89° 26' 31.229" E	100	26° 47' 36.567" N	89° 27' 51.187" E
18	26° 47' 19.741" N	89° 27' 59.171" E	59	26° 46' 17.847" N	89° 26' 34.617" E	101	26° 47' 39.232" N	89° 27' 54.230" E
19	26° 47' 16.336" N	89° 27' 56.302" E	60	26° 46' 20.152" N	89° 26' 36.146" E	102	26° 47' 41.734" N	89° 27' 57.094" E
20	26° 47' 11.801" N	89° 27' 53.016" E	61	26° 46' 22.261" N	89° 26' 37.678" E	103	26° 47' 43.741" N	89° 27' 59.291" E
21	26° 47' 9.559" N	89° 27' 51.450" E	62	26° 46' 22.673" N	89° 26' 38.922" E	104	26° 47' 43.765" N	89° 27' 59.335" E
22	26° 47' 8.295" N	89° 27' 50.567" E	63	26° 46' 23.769" N	89° 26' 42.265" E	105	26° 47' 41.623" N	89° 28' 0.000" E
23	26° 47' 6.071" N	89° 27' 49.044" E	64	26° 46' 24.059" N	89° 26' 42.714" E	106	26° 47' 39.050" N	89° 28' 0.787" E
24	26° 47' 5.471" N	89° 27' 49.091" E	65	26° 46' 24.926" N	89° 26' 44.056" E	107	26° 47' 32.645" N	89° 27' 56.493" E
25	26° 47' 3.341" N	89° 27' 49.260" E	66	26° 46' 26.701" N	89° 26' 46.785" E	108	26° 47' 27.879" N	89° 27' 53.804" E
26	26° 47' 1.788" N	89° 27' 48.487" E	67	26° 46' 26.857" N	89° 26' 47.033" E	109	26° 47' 22.600" N	89° 27' 50.912" E
27	26° 46' 58.542" N	89° 27' 47.204" E	68	26° 46' 27.829" N	89° 26' 48.577" E	110	26° 47' 21.946" N	89° 27' 48.983" E
28	26° 46' 54.879" N	89° 27' 43.043" E	69	26° 46' 29.816" N	89° 26' 48.819" E	111	26° 46' 25.108" N	89° 26' 49.650" E
29	26° 46' 53.007" N	89° 27' 40.843" E	70	26° 46' 30.019" N	89° 26' 48.843" E	112	26° 46' 24.389" N	89° 26' 51.454" E
30	26° 46' 52.629" N	89° 27' 40.399" E	71	26° 46' 33.251" N	89° 26' 51.802" E	113	26° 46' 26.266" N	89° 26' 57.240" E
31	26° 46' 51.508" N	89° 27' 39.463" E	72	26° 46' 35.836" N	89° 26' 55.257" E	114	26° 46' 27.870" N	89° 26' 58.903" E
32	26° 46' 49.508" N	89° 27' 37.791" E	73	26° 46' 38.229" N	89° 26' 58.784" E	115	26° 46' 29.207" N	89° 27' 1.134" E
33	26° 46' 47.370" N	89° 27' 36.482" E	74	26° 46' 40.305" N	89° 27' 1.552" E	116	26° 46' 32.531" N	89° 27' 2.737" E
34	26° 46' 45.460" N	89° 27' 33.470" E	75	26° 46' 43.107" N	89° 27' 4.573" E	117	26° 46' 35.677" N	89° 27' 4.720" E
35	26° 46' 43.220" N	89° 27' 29.744" E	76	26° 46' 45.721" N	89° 27' 8.059" E	118	26° 46' 38.250" N	89° 27' 5.063" E
36	26° 46' 42.361" N	89° 27' 28.677" E	77	26° 46' 47.576" N	89° 27' 9.884" E	119	26° 46' 36.484" N	89° 27' 2.822" E
37	26° 46' 40.907" N	89° 27' 26.870" E	78	26° 46' 47.612" N	89° 27' 10.435" E	120	26° 46' 34.650" N	89° 26' 59.527" E
38	26° 46' 37.981" N	89° 27' 23.306" E	79	26° 46' 48.676" N	89° 27' 10.971" E	121	26° 46' 33.252" N	89° 26' 55.858" E
39	26° 46' 36.129" N	89° 27' 21.063" E	80	26° 46' 50.858" N	89° 27' 13.131" E	122	26° 46' 32.327" N	89° 26' 54.689" E
40	26° 46' 33.061" N	89° 27' 18.862" E	81	26° 46' 52.602" N	89° 27' 15.128" E	123	26° 46' 30.631" N	89° 26' 53.312" E
41	26° 46' 32.991" N	89° 27' 18.806" E	82	26° 46' 52.904" N	89° 27' 15.474" E	124	26° 46' 28.503" N	89° 26' 52.117" E
			83	26° 46' 55.159" N	89° 27' 18.929" E	125	26° 46' 27.081" N	89° 26' 49.884" E

POTENTIAL BLOCK AD_KC_KJ_04 OF KALJANI RIVER



ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	KJ	KALJANI RIVER

AD_KC_KJ_04

POINT_NO	LATITUDE	LONGITUDE	POINT_NO	LATITUDE	LONGITUDE	POINT_NO	LATITUDE	LONGITUDE
1	26° 44' 43.699" N	89° 25' 38.824" E	45	26° 45' 6.958" N	89° 25' 40.586" E	89	26° 46' 6.520" N	89° 26' 43.257" E
2	26° 44' 42.066" N	89° 25' 36.131" E	46	26° 45' 9.842" N	89° 25' 42.912" E	90	26° 46' 4.275" N	89° 26' 40.320" E
3	26° 44' 42.223" N	89° 25' 34.248" E	47	26° 45' 13.078" N	89° 25' 46.285" E	91	26° 46' 2.392" N	89° 26' 37.995" E
4	26° 44' 42.194" N	89° 25' 34.254" E	48	26° 45' 15.973" N	89° 25' 50.087" E	92	26° 46' 0.594" N	89° 26' 35.957" E
5	26° 44' 41.817" N	89° 25' 33.237" E	49	26° 45' 17.273" N	89° 25' 52.158" E	93	26° 45' 59.644" N	89° 26' 34.880" E
6	26° 44' 41.537" N	89° 25' 32.479" E	50	26° 45' 18.018" N	89° 25' 53.345" E	94	26° 45' 56.214" N	89° 26' 32.108" E
7	26° 44' 41.137" N	89° 25' 31.704" E	51	26° 45' 18.955" N	89° 25' 54.991" E	95	26° 45' 52.743" N	89° 26' 29.308" E
8	26° 44' 40.912" N	89° 25' 31.649" E	52	26° 45' 19.339" N	89° 25' 57.563" E	96	26° 45' 51.340" N	89° 26' 28.458" E
9	26° 44' 38.995" N	89° 25' 28.289" E	53	26° 45' 20.894" N	89° 25' 59.128" E	97	26° 45' 50.519" N	89° 26' 27.795" E
10	26° 44' 34.813" N	89° 25' 27.587" E	54	26° 45' 21.908" N	89° 25' 59.678" E	98	26° 45' 44.323" N	89° 26' 24.216" E
11	26° 44' 33.232" N	89° 25' 27.554" E	55	26° 45' 21.912" N	89° 25' 59.684" E	99	26° 45' 40.628" N	89° 26' 23.141" E
12	26° 44' 31.520" N	89° 25' 27.134" E	56	26° 45' 24.394" N	89° 26' 1.750" E	100	26° 45' 39.422" N	89° 26' 22.966" E
13	26° 44' 31.522" N	89° 25' 27.156" E	57	26° 45' 26.282" N	89° 26' 3.374" E	101	26° 45' 38.548" N	89° 26' 22.641" E
14	26° 44' 30.544" N	89° 25' 25.602" E	58	26° 45' 27.730" N	89° 26' 4.534" E	102	26° 45' 38.088" N	89° 26' 22.471" E
15	26° 44' 27.170" N	89° 25' 20.476" E	59	26° 45' 28.588" N	89° 26' 5.221" E	103	26° 45' 35.716" N	89° 26' 21.164" E
16	26° 44' 23.478" N	89° 25' 15.020" E	60	26° 45' 31.656" N	89° 26' 5.287" E	104	26° 45' 35.150" N	89° 26' 20.809" E
17	26° 44' 22.804" N	89° 25' 14.019" E	61	26° 45' 34.578" N	89° 26' 5.101" E	105	26° 45' 34.492" N	89° 26' 20.397" E
18	26° 44' 22.308" N	89° 25' 13.283" E	62	26° 45' 35.797" N	89° 26' 5.657" E	106	26° 45' 32.154" N	89° 26' 18.788" E
19	26° 44' 23.113" N	89° 25' 12.098" E	63	26° 45' 37.506" N	89° 26' 6.333" E	107	26° 45' 29.665" N	89° 26' 16.861" E
20	26° 44' 20.913" N	89° 25' 7.993" E	64	26° 45' 39.113" N	89° 26' 6.987" E	108	26° 45' 28.666" N	89° 26' 16.089" E
21	26° 44' 18.945" N	89° 25' 6.496" E	65	26° 45' 41.595" N	89° 26' 7.895" E	109	26° 45' 28.041" N	89° 26' 15.365" E
22	26° 44' 17.461" N	89° 25' 4.780" E	66	26° 45' 45.034" N	89° 26' 9.910" E	110	26° 45' 27.794" N	89° 26' 15.415" E
23	26° 44' 16.386" N	89° 25' 3.399" E	67	26° 45' 45.542" N	89° 26' 10.134" E	111	26° 45' 26.753" N	89° 26' 14.610" E
24	26° 44' 15.394" N	89° 25' 2.126" E	68	26° 45' 49.201" N	89° 26' 11.748" E	112	26° 45' 23.425" N	89° 26' 11.237" E
25	26° 44' 15.471" N	89° 25' 1.717" E	69	26° 45' 49.744" N	89° 26' 11.914" E	113	26° 45' 21.094" N	89° 26' 8.789" E
26	26° 44' 12.197" N	89° 24' 55.698" E	70	26° 45' 54.249" N	89° 26' 13.287" E	114	26° 45' 19.229" N	89° 26' 7.225" E
27	26° 44' 12.002" N	89° 24' 55.242" E	71	26° 45' 58.375" N	89° 26' 16.296" E	115	26° 45' 19.190" N	89° 26' 7.193" E
28	26° 44' 22.306" N	89° 24' 55.672" E	72	26° 46' 2.693" N	89° 26' 19.447" E	116	26° 45' 18.987" N	89° 26' 7.022" E
29	26° 44' 22.769" N	89° 24' 57.111" E	73	26° 46' 5.895" N	89° 26' 21.492" E	117	26° 45' 16.841" N	89° 26' 5.292" E
30	26° 44' 24.653" N	89° 25' 0.335" E	74	26° 46' 6.270" N	89° 26' 21.976" E	118	26° 45' 14.031" N	89° 26' 2.352" E
31	26° 44' 27.217" N	89° 25' 5.866" E	75	26° 46' 6.565" N	89° 26' 21.920" E	119	26° 45' 9.204" N	89° 25' 59.108" E
32	26° 44' 29.547" N	89° 25' 9.851" E	76	26° 46' 6.779" N	89° 26' 22.057" E	120	26° 45' 6.969" N	89° 25' 57.146" E
33	26° 44' 34.626" N	89° 25' 14.109" E	77	26° 46' 6.897" N	89° 26' 22.132" E	121	26° 45' 4.989" N	89° 25' 56.296" E
34	26° 44' 38.177" N	89° 25' 16.957" E	78	26° 46' 7.342" N	89° 26' 22.416" E	122	26° 45' 3.519" N	89° 25' 55.231" E
35	26° 44' 40.298" N	89° 25' 19.485" E	79	26° 46' 11.884" N	89° 26' 25.333" E	123	26° 45' 3.103" N	89° 25' 54.949" E
36	26° 44' 41.122" N	89° 25' 20.467" E	80	26° 46' 15.348" N	89° 26' 28.434" E	124	26° 45' 0.475" N	89° 25' 53.160" E
37	26° 44' 44.048" N	89° 25' 23.520" E	81	26° 46' 16.665" N	89° 26' 30.715" E	125	26° 44' 56.474" N	89° 25' 49.910" E
38	26° 44' 46.804" N	89° 25' 26.109" E	82	26° 46' 15.592" N	89° 26' 36.358" E	126	26° 44' 54.234" N	89° 25' 48.939" E
39	26° 44' 49.908" N	89° 25' 28.741" E	83	26° 46' 14.593" N	89° 26' 41.615" E	127	26° 44' 53.461" N	89° 25' 48.341" E
40	26° 44' 51.358" N	89° 25' 30.030" E	84	26° 46' 11.525" N	89° 26' 49.109" E	128	26° 44' 52.716" N	89° 25' 48.281" E
41	26° 44' 52.955" N	89° 25' 31.449" E	85	26° 46' 10.975" N	89° 26' 48.553" E	129	26° 44' 52.245" N	89° 25' 48.077" E
42	26° 44' 58.419" N	89° 25' 35.106" E	86	26° 46' 9.958" N	89° 26' 47.531" E	130	26° 44' 50.315" N	89° 25' 45.837" E
43	26° 45' 3.012" N	89° 25' 37.874" E	87	26° 46' 8.454" N	89° 26' 45.710" E	131	26° 44' 49.149" N	89° 25' 44.484" E
44	26° 45' 4.107" N	89° 25' 38.627" E	88	26° 46' 6.834" N	89° 26' 43.655" E	132	26° 44' 47.488" N	89° 25' 42.557" E
						133	26° 44' 44.538" N	89° 25' 39.456" E

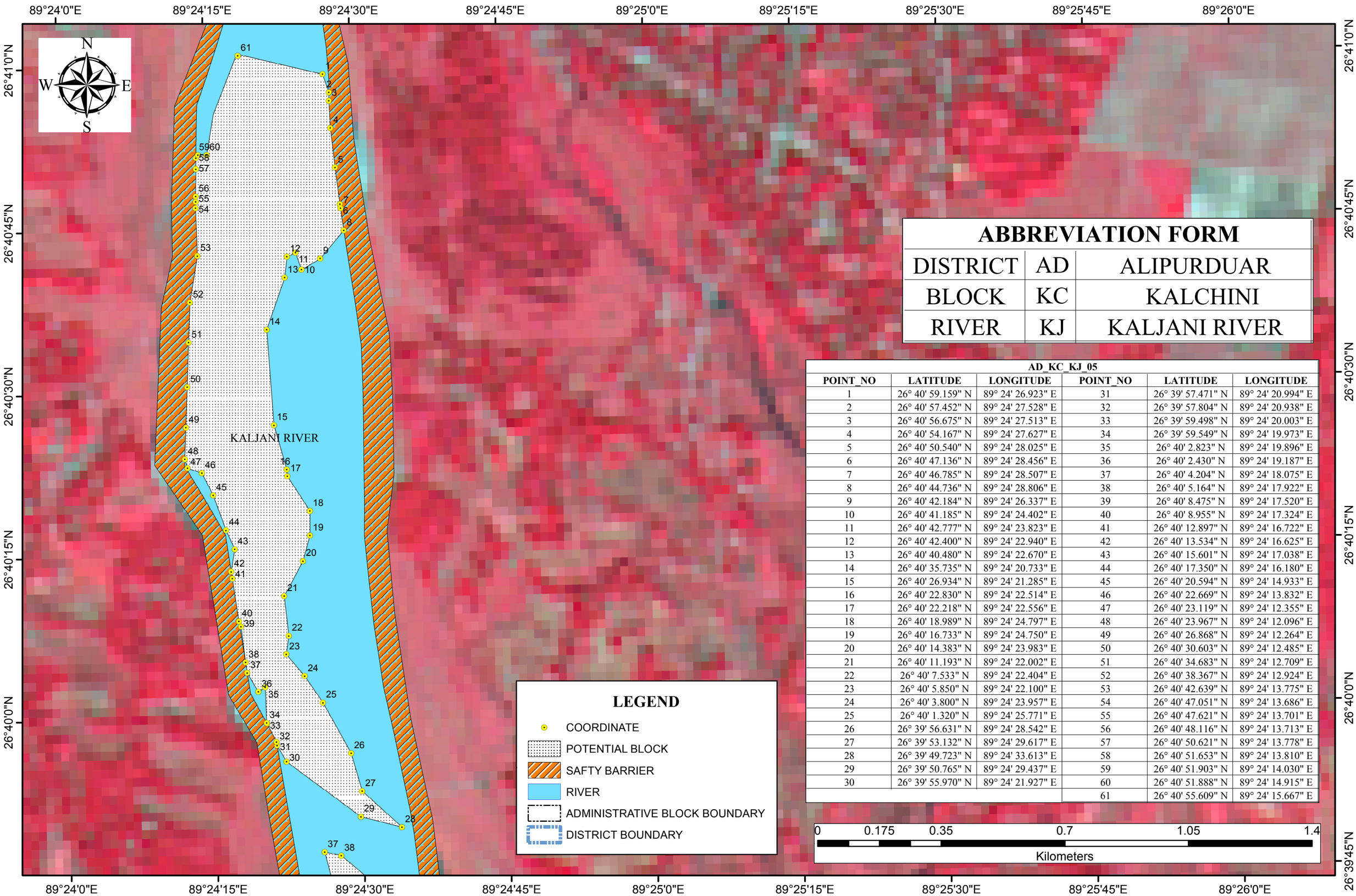
LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.3 0.6 1.2 1.8 2.4

Kilometers

POTENTIAL BLOCK AD_KC_KJ_05 OF KALJANI RIVER

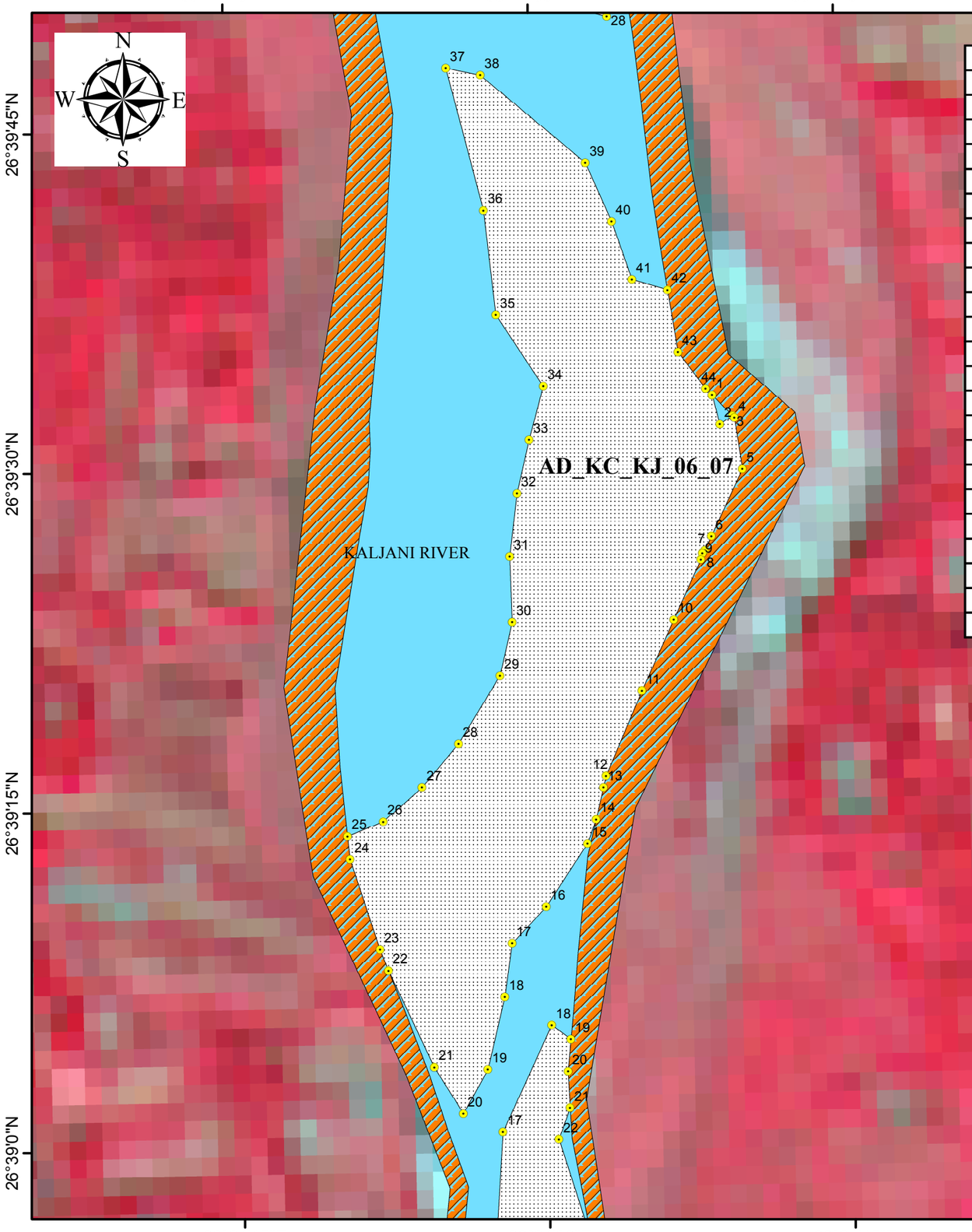


ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	KJ	KALJANI RIVER

AD_KC_KJ_05

POINT_NO	LATITUDE	LONGITUDE	POINT_NO	LATITUDE	LONGITUDE
1	26° 40' 59.159" N	89° 24' 26.923" E	31	26° 39' 57.471" N	89° 24' 20.994" E
2	26° 40' 57.452" N	89° 24' 27.528" E	32	26° 39' 57.804" N	89° 24' 20.938" E
3	26° 40' 56.675" N	89° 24' 27.513" E	33	26° 39' 59.498" N	89° 24' 20.003" E
4	26° 40' 54.167" N	89° 24' 27.627" E	34	26° 39' 59.549" N	89° 24' 19.973" E
5	26° 40' 50.540" N	89° 24' 28.025" E	35	26° 40' 2.823" N	89° 24' 19.896" E
6	26° 40' 47.136" N	89° 24' 28.456" E	36	26° 40' 2.430" N	89° 24' 19.187" E
7	26° 40' 46.785" N	89° 24' 28.507" E	37	26° 40' 4.204" N	89° 24' 18.075" E
8	26° 40' 44.736" N	89° 24' 28.806" E	38	26° 40' 5.164" N	89° 24' 17.922" E
9	26° 40' 42.184" N	89° 24' 26.337" E	39	26° 40' 8.475" N	89° 24' 17.520" E
10	26° 40' 41.185" N	89° 24' 24.402" E	40	26° 40' 8.955" N	89° 24' 17.324" E
11	26° 40' 42.777" N	89° 24' 23.823" E	41	26° 40' 12.897" N	89° 24' 16.722" E
12	26° 40' 42.400" N	89° 24' 22.940" E	42	26° 40' 13.534" N	89° 24' 16.625" E
13	26° 40' 40.480" N	89° 24' 22.670" E	43	26° 40' 15.601" N	89° 24' 17.038" E
14	26° 40' 35.735" N	89° 24' 20.733" E	44	26° 40' 17.350" N	89° 24' 16.180" E
15	26° 40' 26.934" N	89° 24' 21.285" E	45	26° 40' 20.594" N	89° 24' 14.933" E
16	26° 40' 22.830" N	89° 24' 22.514" E	46	26° 40' 22.669" N	89° 24' 13.832" E
17	26° 40' 22.218" N	89° 24' 22.556" E	47	26° 40' 23.119" N	89° 24' 12.355" E
18	26° 40' 18.989" N	89° 24' 24.797" E	48	26° 40' 23.967" N	89° 24' 12.096" E
19	26° 40' 16.733" N	89° 24' 24.750" E	49	26° 40' 26.868" N	89° 24' 12.264" E
20	26° 40' 14.383" N	89° 24' 23.983" E	50	26° 40' 30.603" N	89° 24' 12.485" E
21	26° 40' 11.193" N	89° 24' 22.002" E	51	26° 40' 34.683" N	89° 24' 12.709" E
22	26° 40' 7.533" N	89° 24' 22.404" E	52	26° 40' 38.367" N	89° 24' 12.924" E
23	26° 40' 5.850" N	89° 24' 22.100" E	53	26° 40' 42.639" N	89° 24' 13.775" E
24	26° 40' 3.800" N	89° 24' 23.957" E	54	26° 40' 47.051" N	89° 24' 13.686" E
25	26° 40' 1.320" N	89° 24' 25.771" E	55	26° 40' 47.621" N	89° 24' 13.701" E
26	26° 39' 56.631" N	89° 24' 28.542" E	56	26° 40' 48.116" N	89° 24' 13.713" E
27	26° 39' 53.132" N	89° 24' 29.617" E	57	26° 40' 50.621" N	89° 24' 13.778" E
28	26° 39' 49.723" N	89° 24' 33.613" E	58	26° 40' 51.653" N	89° 24' 13.810" E
29	26° 39' 50.765" N	89° 24' 29.437" E	59	26° 40' 51.903" N	89° 24' 14.030" E
30	26° 39' 55.970" N	89° 24' 21.927" E	60	26° 40' 51.888" N	89° 24' 14.915" E
			61	26° 40' 55.609" N	89° 24' 15.667" E

POTENTIAL BLOCK AD_KC_KJ_06_07 OF KALJANI RIVER



AD_KC_KJ_06_07					
POINT_NO	LATITUDE	LONGITUDE	POINT_NO	LATITUDE	LONGITUDE
1	26° 39' 32.924" N	89° 24' 38.437" E	23	26° 39' 8.709" N	89° 24' 21.613" E
2	26° 39' 31.634" N	89° 24' 38.795" E	24	26° 39' 12.719" N	89° 24' 20.222" E
3	26° 39' 31.995" N	89° 24' 39.423" E	25	26° 39' 13.738" N	89° 24' 20.121" E
4	26° 39' 31.913" N	89° 24' 39.511" E	26	26° 39' 14.356" N	89° 24' 21.886" E
5	26° 39' 29.644" N	89° 24' 39.857" E	27	26° 39' 15.828" N	89° 24' 23.830" E
6	26° 39' 26.695" N	89° 24' 38.272" E	28	26° 39' 17.731" N	89° 24' 25.663" E
7	26° 39' 26.071" N	89° 24' 37.943" E	29	26° 39' 20.704" N	89° 24' 27.759" E
8	26° 39' 25.947" N	89° 24' 37.822" E	30	26° 39' 23.056" N	89° 24' 28.406" E
9	26° 39' 25.676" N	89° 24' 37.735" E	31	26° 39' 25.958" N	89° 24' 28.347" E
10	26° 39' 23.040" N	89° 24' 36.346" E	32	26° 39' 28.745" N	89° 24' 28.764" E
11	26° 39' 19.930" N	89° 24' 34.718" E	33	26° 39' 31.098" N	89° 24' 29.412" E
12	26° 39' 16.194" N	89° 24' 32.874" E	34	26° 39' 33.453" N	89° 24' 30.155" E
13	26° 39' 15.691" N	89° 24' 32.735" E	35	26° 39' 36.645" N	89° 24' 27.883" E
14	26° 39' 14.288" N	89° 24' 32.348" E	36	26° 39' 41.274" N	89° 24' 27.382" E
15	26° 39' 13.220" N	89° 24' 31.906" E	37	26° 39' 47.592" N	89° 24' 25.654" E
16	26° 39' 10.461" N	89° 24' 29.816" E	38	26° 39' 47.240" N	89° 24' 27.340" E
17	26° 39' 8.879" N	89° 24' 28.108" E	39	26° 39' 43.285" N	89° 24' 32.423" E
18	26° 39' 6.522" N	89° 24' 27.700" E	40	26° 39' 40.686" N	89° 24' 33.660" E
19	26° 39' 3.314" N	89° 24' 26.796" E	41	26° 39' 38.091" N	89° 24' 34.610" E
20	26° 39' 1.401" N	89° 24' 25.560" E	42	26° 39' 37.603" N	89° 24' 36.343" E
21	26° 39' 3.466" N	89° 24' 24.168" E	43	26° 39' 34.864" N	89° 24' 36.804" E
22	26° 39' 7.771" N	89° 24' 22.009" E	44	26° 39' 33.222" N	89° 24' 38.121" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	KJ	KALJANI RIVER

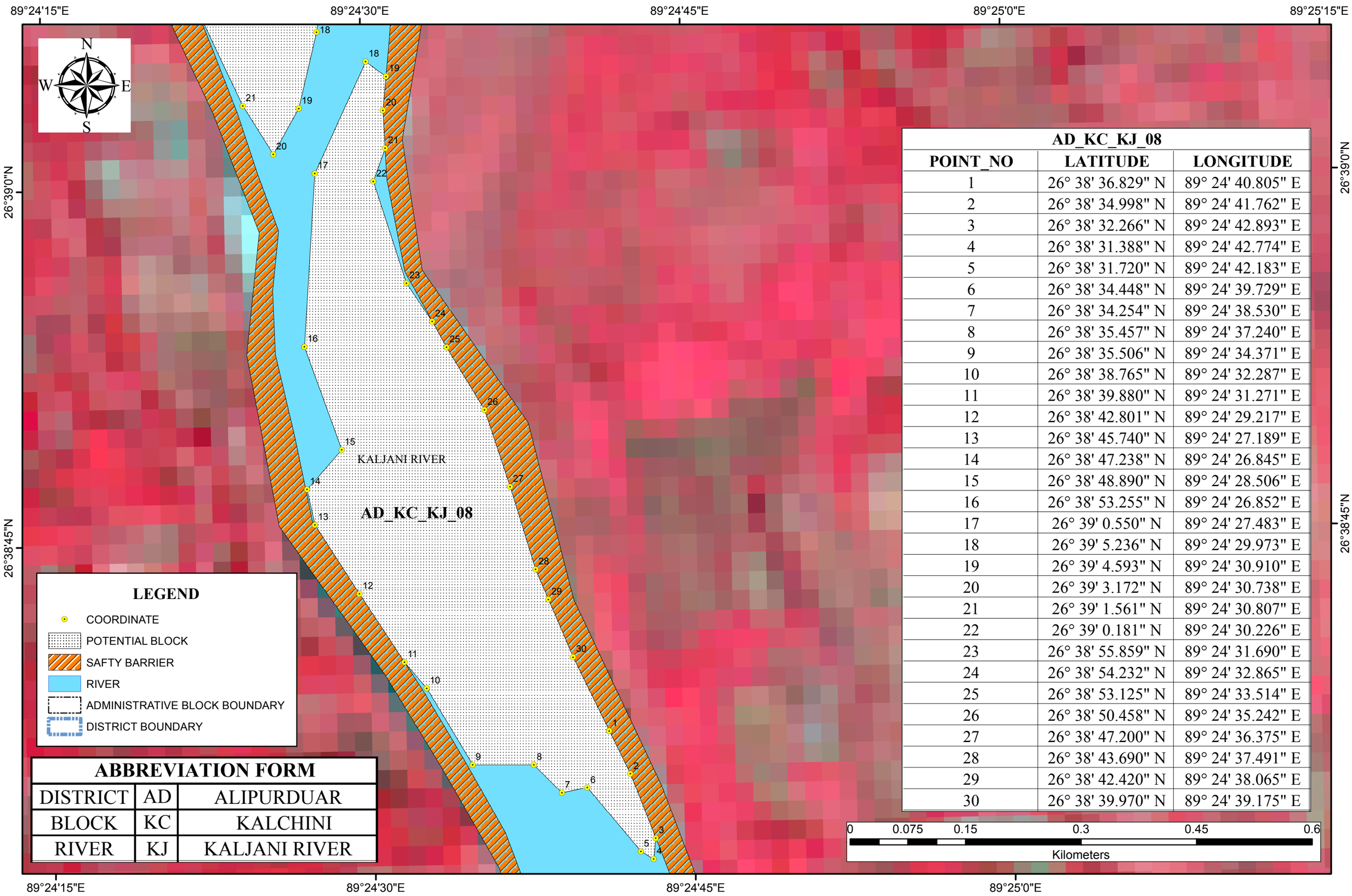
LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.1 0.2 0.4 0.6 0.8

Kilometers

POTENTIAL BLOCK AD_KC_KJ_08 OF KALJANI RIVER



ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	KJ	KALJANI RIVER

AD_KC_KJ_08		
POINT_NO	LATITUDE	LONGITUDE
1	26° 38' 36.829" N	89° 24' 40.805" E
2	26° 38' 34.998" N	89° 24' 41.762" E
3	26° 38' 32.266" N	89° 24' 42.893" E
4	26° 38' 31.388" N	89° 24' 42.774" E
5	26° 38' 31.720" N	89° 24' 42.183" E
6	26° 38' 34.448" N	89° 24' 39.729" E
7	26° 38' 34.254" N	89° 24' 38.530" E
8	26° 38' 35.457" N	89° 24' 37.240" E
9	26° 38' 35.506" N	89° 24' 34.371" E
10	26° 38' 38.765" N	89° 24' 32.287" E
11	26° 38' 39.880" N	89° 24' 31.271" E
12	26° 38' 42.801" N	89° 24' 29.217" E
13	26° 38' 45.740" N	89° 24' 27.189" E
14	26° 38' 47.238" N	89° 24' 26.845" E
15	26° 38' 48.890" N	89° 24' 28.506" E
16	26° 38' 53.255" N	89° 24' 26.852" E
17	26° 39' 0.550" N	89° 24' 27.483" E
18	26° 39' 5.236" N	89° 24' 29.973" E
19	26° 39' 4.593" N	89° 24' 30.910" E
20	26° 39' 3.172" N	89° 24' 30.738" E
21	26° 39' 1.561" N	89° 24' 30.807" E
22	26° 39' 0.181" N	89° 24' 30.226" E
23	26° 38' 55.859" N	89° 24' 31.690" E
24	26° 38' 54.232" N	89° 24' 32.865" E
25	26° 38' 53.125" N	89° 24' 33.514" E
26	26° 38' 50.458" N	89° 24' 35.242" E
27	26° 38' 47.200" N	89° 24' 36.375" E
28	26° 38' 43.690" N	89° 24' 37.491" E
29	26° 38' 42.420" N	89° 24' 38.065" E
30	26° 38' 39.970" N	89° 24' 39.175" E

POTENTIAL BLOCK AD_KC_KJ_09 OF KALJANI RIVER

89°24'15"E 89°24'30"E 89°24'45"E 89°25'0"E 89°25'15"E 89°25'30"E 89°25'45"E 89°26'0"E

26°38'15"N 26°38'0"N 26°37'45"N 26°37'30"N

N W E S

KALJANI RIVER

AD_KC_KJ_09					
POINT_NO	LATITUDE	LONGITUDE	POINT_NO	LATITUDE	LONGITUDE
1	26° 37' 30.897" N	89° 25' 8.042" E	21	26° 38' 27.361" N	89° 24' 37.699" E
2	26° 37' 28.543" N	89° 25' 0.337" E	22	26° 38' 23.217" N	89° 24' 43.080" E
3	26° 37' 30.571" N	89° 24' 54.190" E	23	26° 38' 20.820" N	89° 24' 45.062" E
4	26° 37' 32.864" N	89° 24' 48.228" E	24	26° 38' 18.422" N	89° 24' 47.044" E
5	26° 37' 33.262" N	89° 24' 48.015" E	25	26° 38' 17.006" N	89° 24' 48.210" E
6	26° 37' 35.158" N	89° 24' 47.001" E	26	26° 38' 12.642" N	89° 24' 52.064" E
7	26° 37' 39.969" N	89° 24' 44.387" E	27	26° 38' 7.063" N	89° 24' 55.133" E
8	26° 37' 43.833" N	89° 24' 43.396" E	28	26° 38' 6.902" N	89° 24' 55.212" E
9	26° 37' 47.468" N	89° 24' 42.329" E	29	26° 38' 1.278" N	89° 24' 57.983" E
10	26° 37' 48.823" N	89° 24' 42.102" E	30	26° 37' 56.607" N	89° 24' 59.883" E
11	26° 37' 49.167" N	89° 24' 42.044" E	31	26° 37' 54.130" N	89° 25' 1.232" E
12	26° 37' 52.592" N	89° 24' 42.645" E	32	26° 37' 51.568" N	89° 25' 3.218" E
13	26° 38' 2.028" N	89° 24' 44.428" E	33	26° 37' 51.281" N	89° 25' 3.440" E
14	26° 38' 2.900" N	89° 24' 44.567" E	34	26° 37' 48.351" N	89° 25' 5.882" E
15	26° 38' 3.539" N	89° 24' 43.982" E	35	26° 37' 45.402" N	89° 25' 7.562" E
16	26° 38' 9.305" N	89° 24' 40.990" E	36	26° 37' 40.932" N	89° 25' 8.514" E
17	26° 38' 14.155" N	89° 24' 40.269" E	37	26° 37' 37.464" N	89° 25' 9.628" E
18	26° 38' 19.575" N	89° 24' 39.223" E	38	26° 37' 36.110" N	89° 25' 10.702" E
19	26° 38' 24.063" N	89° 24' 38.342" E	39	26° 37' 33.762" N	89° 25' 10.135" E
20	26° 38' 25.002" N	89° 24' 38.159" E			

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	KJ	KALJANI RIVER

0 0.15 0.3 0.6 0.9 1.2

Kilometers

POTENTIAL BLOCK AD_KC_KJ_10 OF KALJANI RIVER

89°25'15"E 89°25'30"E 89°25'45"E

26°37'15"N 26°37'0"N

N W E S

KALJANI RIVER

AD_KC_KJ_10		
POINT_NO	LATITUDE	LONGITUDE
1	26° 36' 58.024" N	89° 25' 29.966" E
2	26° 36' 56.795" N	89° 25' 29.386" E
3	26° 36' 59.276" N	89° 25' 25.809" E
4	26° 37' 0.543" N	89° 25' 24.321" E
5	26° 37' 1.957" N	89° 25' 22.660" E
6	26° 37' 2.675" N	89° 25' 21.816" E
7	26° 37' 6.258" N	89° 25' 19.621" E
8	26° 37' 11.560" N	89° 25' 19.821" E
9	26° 37' 15.647" N	89° 25' 19.501" E
10	26° 37' 20.880" N	89° 25' 19.092" E
11	26° 37' 23.002" N	89° 25' 18.524" E
12	26° 37' 23.474" N	89° 25' 19.523" E
13	26° 37' 23.350" N	89° 25' 21.499" E
14	26° 37' 21.901" N	89° 25' 22.462" E
15	26° 37' 20.718" N	89° 25' 23.101" E
16	26° 37' 19.971" N	89° 25' 23.312" E
17	26° 37' 14.904" N	89° 25' 24.047" E
18	26° 37' 13.387" N	89° 25' 24.283" E
19	26° 37' 13.254" N	89° 25' 24.729" E
20	26° 37' 11.418" N	89° 25' 25.631" E
21	26° 37' 3.769" N	89° 25' 26.985" E
22	26° 37' 1.858" N	89° 25' 29.107" E
23	26° 37' 1.479" N	89° 25' 29.194" E
24	26° 36' 58.094" N	89° 25' 29.971" E

LEGEND

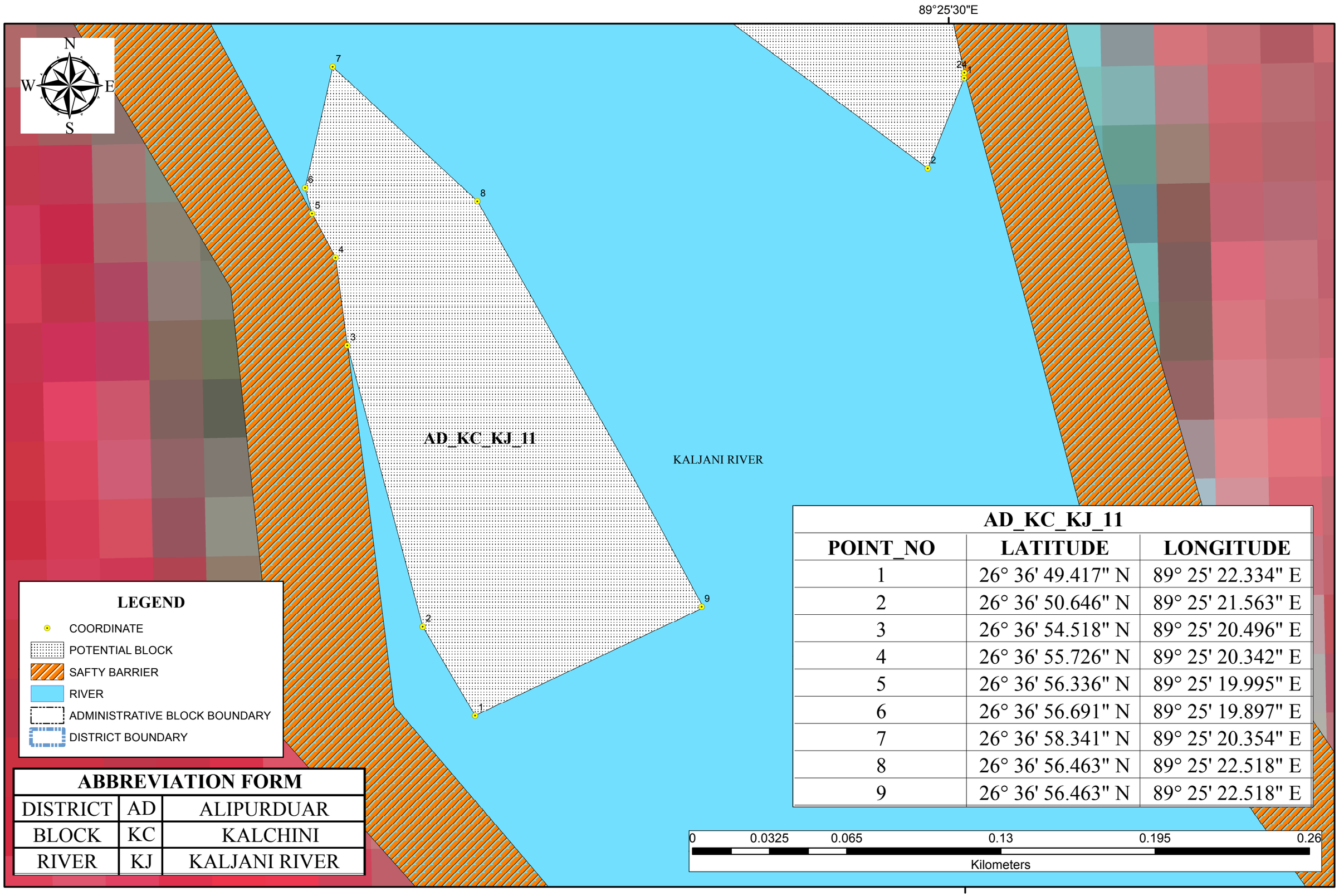
- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	KJ	KALJANI RIVER

0 0.075 0.15 0.3 0.45 0.6

Kilometers

POTENTIAL BLOCK AD_KC_KJ_11 OF KALJANI RIVER



LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

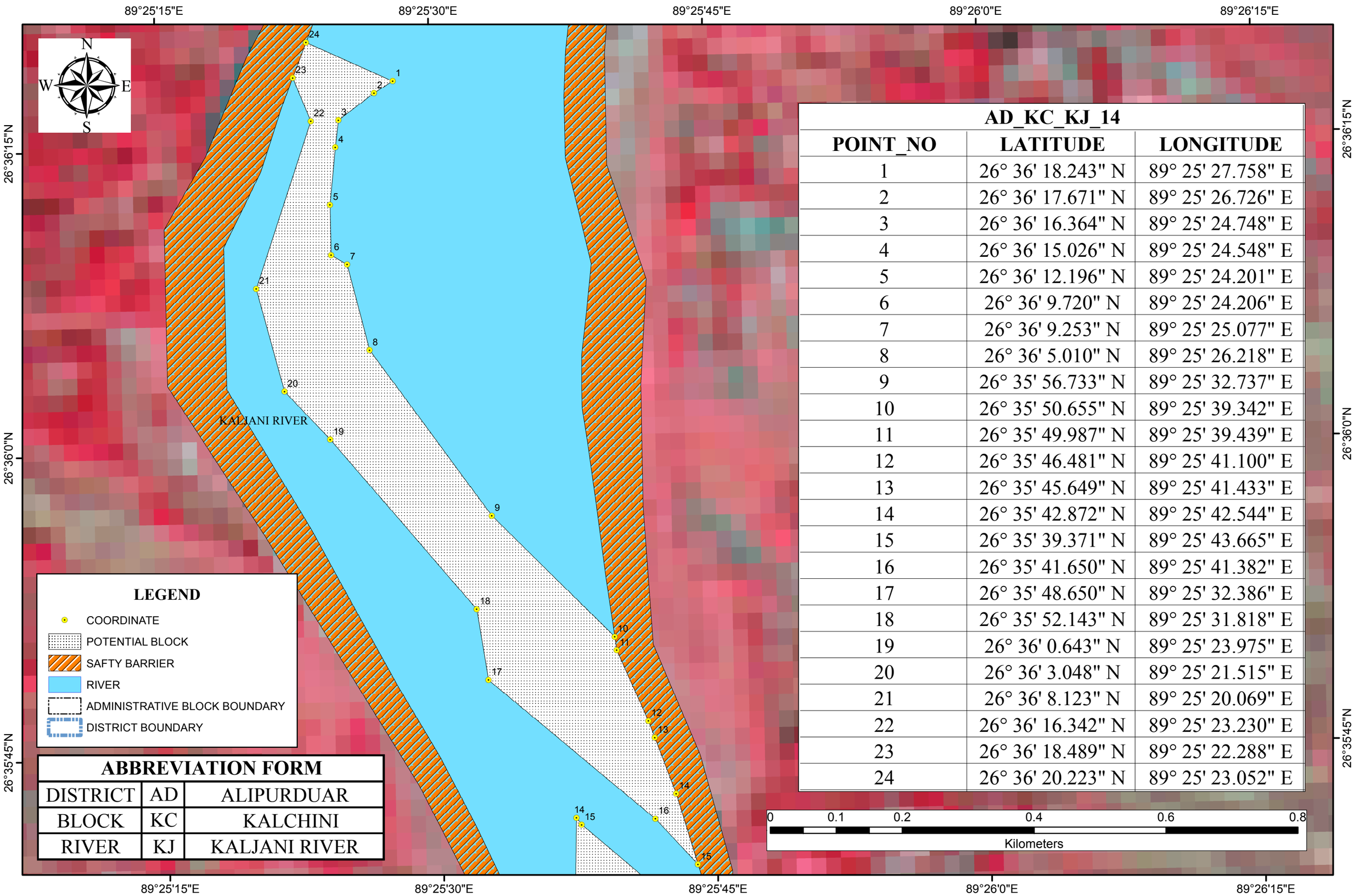
ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	KJ	KALJANI RIVER

AD_KC_KJ_11		
POINT_NO	LATITUDE	LONGITUDE
1	26° 36' 49.417" N	89° 25' 22.334" E
2	26° 36' 50.646" N	89° 25' 21.563" E
3	26° 36' 54.518" N	89° 25' 20.496" E
4	26° 36' 55.726" N	89° 25' 20.342" E
5	26° 36' 56.336" N	89° 25' 19.995" E
6	26° 36' 56.691" N	89° 25' 19.897" E
7	26° 36' 58.341" N	89° 25' 20.354" E
8	26° 36' 56.463" N	89° 25' 22.518" E
9	26° 36' 56.463" N	89° 25' 22.518" E

0 0.0325 0.065 0.13 0.195 0.26

Kilometers

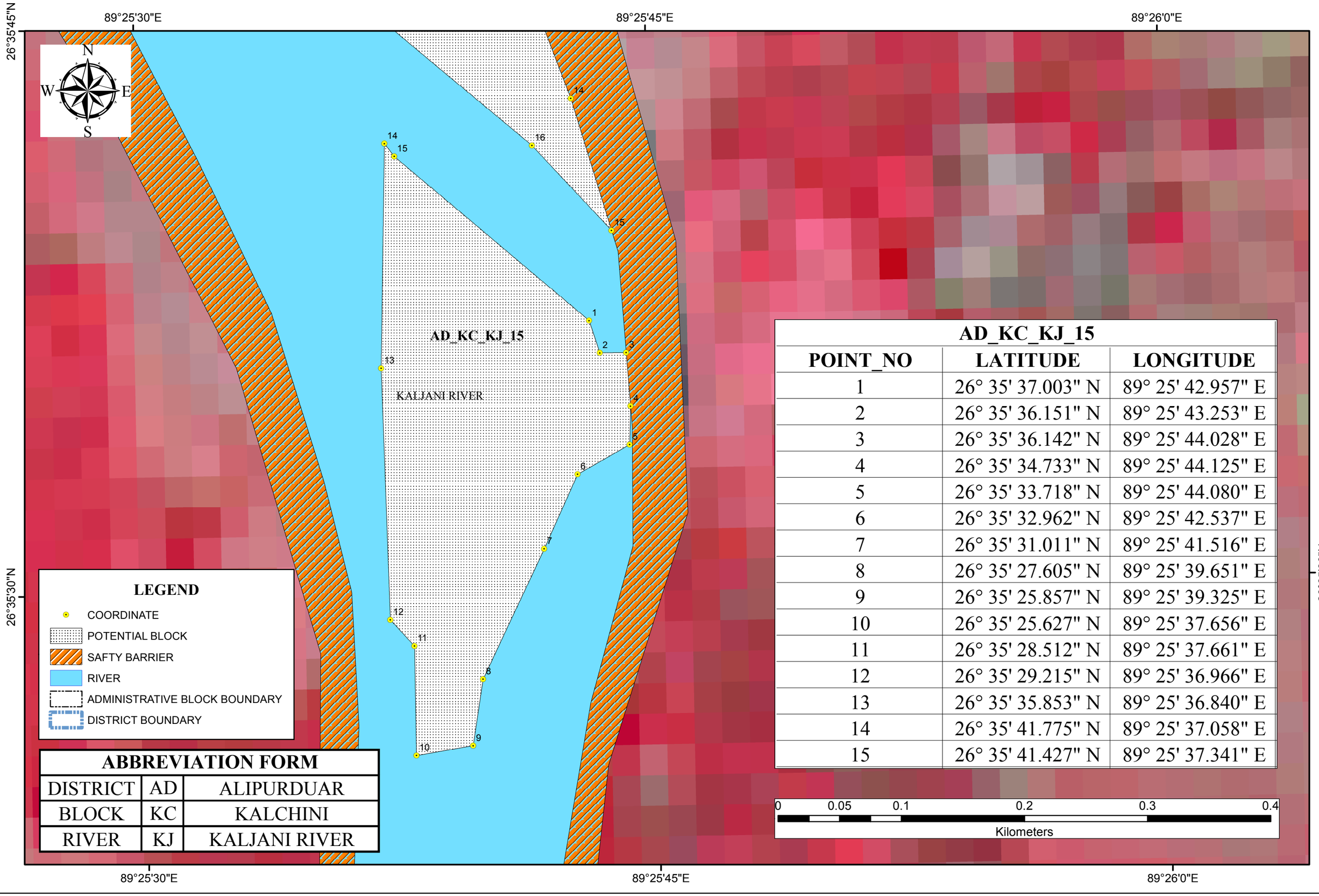
POTENTIAL BLOCK AD_KC_KJ_14 OF KALJANI RIVER



AD_KC_KJ_14		
POINT_NO	LATITUDE	LONGITUDE
1	26° 36' 18.243" N	89° 25' 27.758" E
2	26° 36' 17.671" N	89° 25' 26.726" E
3	26° 36' 16.364" N	89° 25' 24.748" E
4	26° 36' 15.026" N	89° 25' 24.548" E
5	26° 36' 12.196" N	89° 25' 24.201" E
6	26° 36' 9.720" N	89° 25' 24.206" E
7	26° 36' 9.253" N	89° 25' 25.077" E
8	26° 36' 5.010" N	89° 25' 26.218" E
9	26° 35' 56.733" N	89° 25' 32.737" E
10	26° 35' 50.655" N	89° 25' 39.342" E
11	26° 35' 49.987" N	89° 25' 39.439" E
12	26° 35' 46.481" N	89° 25' 41.100" E
13	26° 35' 45.649" N	89° 25' 41.433" E
14	26° 35' 42.872" N	89° 25' 42.544" E
15	26° 35' 39.371" N	89° 25' 43.665" E
16	26° 35' 41.650" N	89° 25' 41.382" E
17	26° 35' 48.650" N	89° 25' 32.386" E
18	26° 35' 52.143" N	89° 25' 31.818" E
19	26° 36' 0.643" N	89° 25' 23.975" E
20	26° 36' 3.048" N	89° 25' 21.515" E
21	26° 36' 8.123" N	89° 25' 20.069" E
22	26° 36' 16.342" N	89° 25' 23.230" E
23	26° 36' 18.489" N	89° 25' 22.288" E
24	26° 36' 20.223" N	89° 25' 23.052" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	KJ	KALJANI RIVER

POTENTIAL BLOCK AD_KC_KJ_15 OF KALJANI RIVER



AD_KC_KJ_15		
POINT_NO	LATITUDE	LONGITUDE
1	26° 35' 37.003" N	89° 25' 42.957" E
2	26° 35' 36.151" N	89° 25' 43.253" E
3	26° 35' 36.142" N	89° 25' 44.028" E
4	26° 35' 34.733" N	89° 25' 44.125" E
5	26° 35' 33.718" N	89° 25' 44.080" E
6	26° 35' 32.962" N	89° 25' 42.537" E
7	26° 35' 31.011" N	89° 25' 41.516" E
8	26° 35' 27.605" N	89° 25' 39.651" E
9	26° 35' 25.857" N	89° 25' 39.325" E
10	26° 35' 25.627" N	89° 25' 37.656" E
11	26° 35' 28.512" N	89° 25' 37.661" E
12	26° 35' 29.215" N	89° 25' 36.966" E
13	26° 35' 35.853" N	89° 25' 36.840" E
14	26° 35' 41.775" N	89° 25' 37.058" E
15	26° 35' 41.427" N	89° 25' 37.341" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	KJ	KALJANI RIVER

POTENTIAL BLOCK AD_KC_KJ_16_17 OF KALJANI RIVER

89°25'0"E 89°25'15"E 89°25'30"E 89°25'45"E 89°26'0"E

26°35'0"N 26°34'45"N 26°34'30"N

N W E S

KALJANI RIVER

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	KJ	KALJANI RIVER

AD_KC_KJ_16_17					
POINT_NO	LATITUDE	LONGITUDE	POINT_NO	LATITUDE	LONGITUDE
1	26° 34' 57.308" N	89° 25' 28.645" E	19	26° 34' 52.819" N	89° 25' 21.193" E
2	26° 34' 54.626" N	89° 25' 26.647" E	20	26° 34' 53.056" N	89° 25' 21.218" E
3	26° 34' 55.656" N	89° 25' 30.878" E	21	26° 34' 53.391" N	89° 25' 21.248" E
4	26° 34' 55.587" N	89° 25' 30.868" E	22	26° 34' 54.186" N	89° 25' 21.321" E
5	26° 34' 52.792" N	89° 25' 30.366" E	23	26° 34' 55.479" N	89° 25' 22.912" E
6	26° 34' 49.912" N	89° 25' 29.681" E	24	26° 34' 57.965" N	89° 25' 23.347" E
7	26° 34' 47.509" N	89° 25' 28.699" E	25	26° 34' 59.146" N	89° 25' 24.615" E
8	26° 34' 45.128" N	89° 25' 27.776" E	26	26° 35' 2.881" N	89° 25' 24.403" E
9	26° 34' 42.690" N	89° 25' 26.816" E	27	26° 35' 4.940" N	89° 25' 24.676" E
10	26° 34' 42.324" N	89° 25' 26.678" E	28	26° 35' 6.715" N	89° 25' 25.130" E
11	26° 34' 39.824" N	89° 25' 25.140" E	29	26° 35' 7.710" N	89° 25' 25.724" E
12	26° 34' 32.095" N	89° 25' 18.405" E	30	26° 35' 8.893" N	89° 25' 26.624" E
13	26° 34' 31.619" N	89° 25' 14.810" E	31	26° 35' 10.181" N	89° 25' 27.845" E
14	26° 34' 37.731" N	89° 25' 15.536" E	32	26° 35' 13.210" N	89° 25' 31.657" E
15	26° 34' 43.515" N	89° 25' 16.614" E	33	26° 35' 11.957" N	89° 25' 32.548" E
16	26° 34' 47.766" N	89° 25' 19.332" E	34	26° 35' 7.276" N	89° 25' 32.832" E
17	26° 34' 48.755" N	89° 25' 19.666" E	35	26° 35' 3.018" N	89° 25' 32.513" E
18	26° 34' 50.594" N	89° 25' 20.958" E	36	26° 35' 2.143" N	89° 25' 31.424" E
			37	26° 35' 0.306" N	89° 25' 30.238" E

0 0.125 0.25 0.5 0.75 1

Kilometers

POTENTIAL BLOCK AD_KC_KJ_16_17 OF KALJANI RIVER

89°25'0"E 89°25'15"E 89°25'30"E 89°25'45"E 89°26'0"E

26°35'0"N 26°34'45"N 26°34'30"N

N W E S

KALJANI RIVER

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

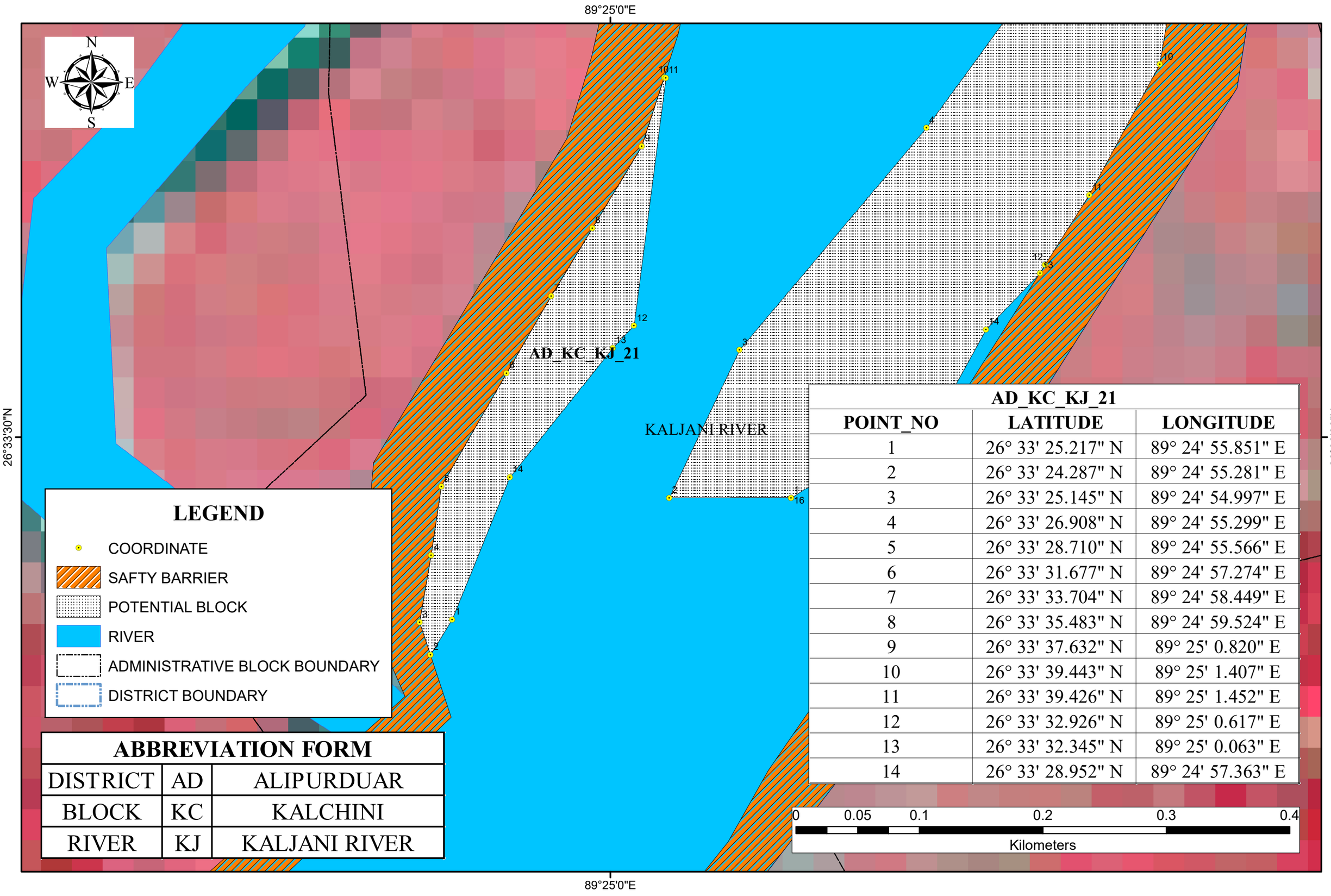
ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	KJ	KALJANI RIVER

AD_KC_KJ_16_17					
POINT_NO	LATITUDE	LONGITUDE	POINT_NO	LATITUDE	LONGITUDE
1	26° 34' 57.308" N	89° 25' 28.645" E	19	26° 34' 52.819" N	89° 25' 21.193" E
2	26° 34' 54.626" N	89° 25' 26.647" E	20	26° 34' 53.056" N	89° 25' 21.218" E
3	26° 34' 55.656" N	89° 25' 30.878" E	21	26° 34' 53.391" N	89° 25' 21.248" E
4	26° 34' 55.587" N	89° 25' 30.868" E	22	26° 34' 54.186" N	89° 25' 21.321" E
5	26° 34' 52.792" N	89° 25' 30.366" E	23	26° 34' 55.479" N	89° 25' 22.912" E
6	26° 34' 49.912" N	89° 25' 29.681" E	24	26° 34' 57.965" N	89° 25' 23.347" E
7	26° 34' 47.509" N	89° 25' 28.699" E	25	26° 34' 59.146" N	89° 25' 24.615" E
8	26° 34' 45.128" N	89° 25' 27.776" E	26	26° 35' 2.881" N	89° 25' 24.403" E
9	26° 34' 42.690" N	89° 25' 26.816" E	27	26° 35' 4.940" N	89° 25' 24.676" E
10	26° 34' 42.324" N	89° 25' 26.678" E	28	26° 35' 6.715" N	89° 25' 25.130" E
11	26° 34' 39.824" N	89° 25' 25.140" E	29	26° 35' 7.710" N	89° 25' 25.724" E
12	26° 34' 32.095" N	89° 25' 18.405" E	30	26° 35' 8.893" N	89° 25' 26.624" E
13	26° 34' 31.619" N	89° 25' 14.810" E	31	26° 35' 10.181" N	89° 25' 27.845" E
14	26° 34' 37.731" N	89° 25' 15.536" E	32	26° 35' 13.210" N	89° 25' 31.657" E
15	26° 34' 43.515" N	89° 25' 16.614" E	33	26° 35' 11.957" N	89° 25' 32.548" E
16	26° 34' 47.766" N	89° 25' 19.332" E	34	26° 35' 7.276" N	89° 25' 32.832" E
17	26° 34' 48.755" N	89° 25' 19.666" E	35	26° 35' 3.018" N	89° 25' 32.513" E
18	26° 34' 50.594" N	89° 25' 20.958" E	36	26° 35' 2.143" N	89° 25' 31.424" E
			37	26° 35' 0.306" N	89° 25' 30.238" E

0 0.125 0.25 0.5 0.75 1

Kilometers

POTENTIAL BLOCK AD_KC_KJ_21 OF KALJANI RIVER



AD_KC_KJ_21		
POINT_NO	LATITUDE	LONGITUDE
1	26° 33' 25.217" N	89° 24' 55.851" E
2	26° 33' 24.287" N	89° 24' 55.281" E
3	26° 33' 25.145" N	89° 24' 54.997" E
4	26° 33' 26.908" N	89° 24' 55.299" E
5	26° 33' 28.710" N	89° 24' 55.566" E
6	26° 33' 31.677" N	89° 24' 57.274" E
7	26° 33' 33.704" N	89° 24' 58.449" E
8	26° 33' 35.483" N	89° 24' 59.524" E
9	26° 33' 37.632" N	89° 25' 0.820" E
10	26° 33' 39.443" N	89° 25' 1.407" E
11	26° 33' 39.426" N	89° 25' 1.452" E
12	26° 33' 32.926" N	89° 25' 0.617" E
13	26° 33' 32.345" N	89° 25' 0.063" E
14	26° 33' 28.952" N	89° 24' 57.363" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	KJ	KALJANI RIVER

POTENTIAL BLOCK AD_KC_KJ_22 OF KALJANI RIVER

89°25'0"E

89°25'30"E

26°33'30"N

N

W

E

S

AD_KC_KJ_22

KALJANI RIVER

LEGEND

- COORDINATE
- SAFTY BARRIER
- POTENTIAL BLOCK
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

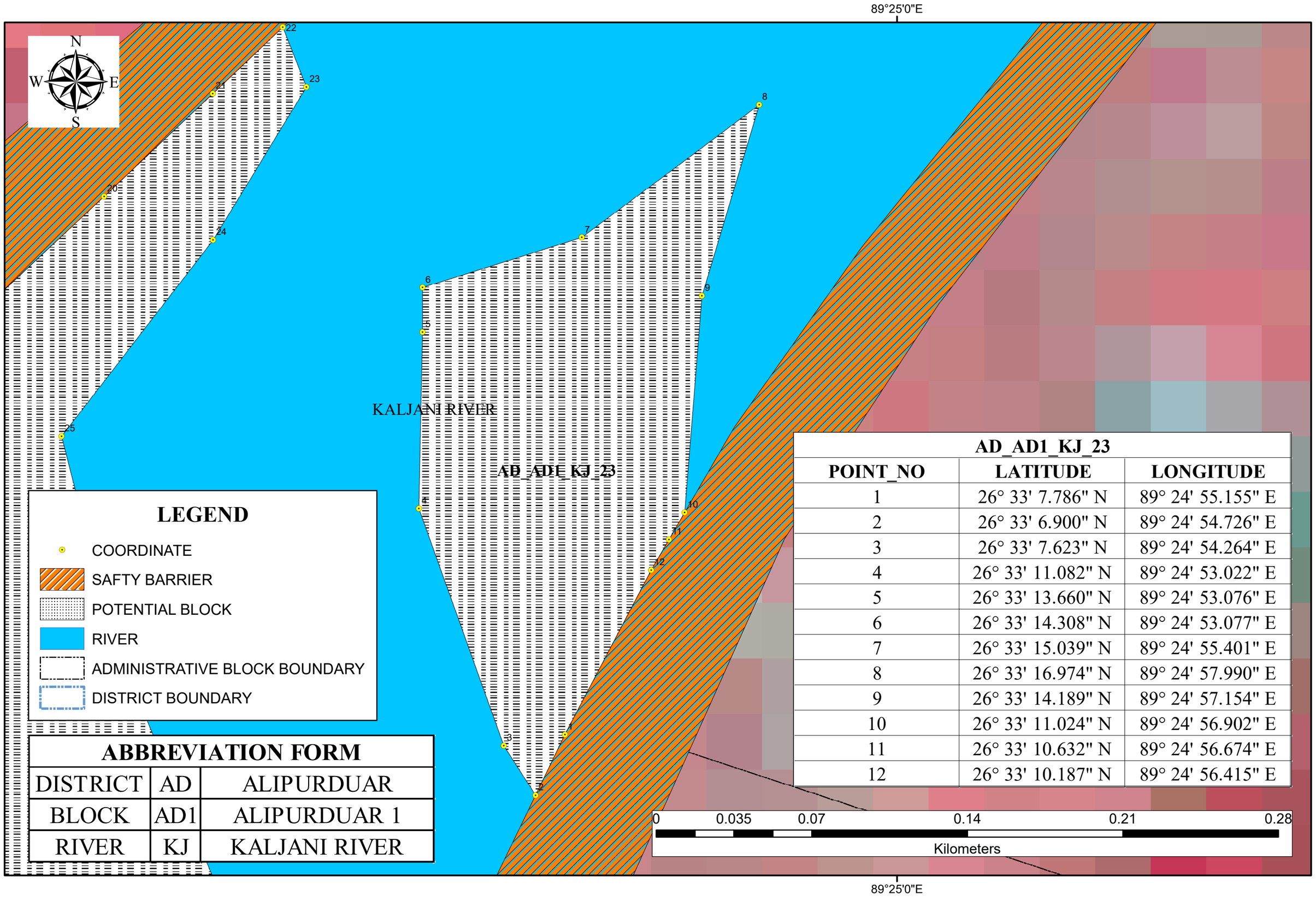
ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	KJ	KALJANI RIVER

AD_KC_KJ_22		
POINT_NO	LATITUDE	LONGITUDE
1	26° 33' 28.411" N	89° 25' 4.734" E
2	26° 33' 28.406" N	89° 25' 1.541" E
3	26° 33' 32.288" N	89° 25' 3.383" E
4	26° 33' 38.115" N	89° 25' 8.285" E
5	26° 33' 43.528" N	89° 25' 12.222" E
6	26° 33' 47.982" N	89° 25' 15.661" E
7	26° 33' 47.982" N	89° 25' 15.663" E
8	26° 33' 45.888" N	89° 25' 15.428" E
9	26° 33' 42.728" N	89° 25' 14.897" E
10	26° 33' 39.780" N	89° 25' 14.404" E
11	26° 33' 36.354" N	89° 25' 12.556" E
12	26° 33' 34.519" N	89° 25' 11.395" E
13	26° 33' 34.309" N	89° 25' 11.263" E
14	26° 33' 32.823" N	89° 25' 9.846" E
15	26° 33' 30.912" N	89° 25' 8.789" E

0 0.075 0.15 0.3 0.45 0.6

Kilometers

POTENTIAL BLOCK AD_AD1_KJ_23 OF KALJANI RIVER



LEGEND

- COORDINATE
- SAFTY BARRIER
- POTENTIAL BLOCK
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR 1
RIVER	KJ	KALJANI RIVER

AD_AD1_KJ_23		
POINT_NO	LATITUDE	LONGITUDE
1	26° 33' 7.786" N	89° 24' 55.155" E
2	26° 33' 6.900" N	89° 24' 54.726" E
3	26° 33' 7.623" N	89° 24' 54.264" E
4	26° 33' 11.082" N	89° 24' 53.022" E
5	26° 33' 13.660" N	89° 24' 53.076" E
6	26° 33' 14.308" N	89° 24' 53.077" E
7	26° 33' 15.039" N	89° 24' 55.401" E
8	26° 33' 16.974" N	89° 24' 57.990" E
9	26° 33' 14.189" N	89° 24' 57.154" E
10	26° 33' 11.024" N	89° 24' 56.902" E
11	26° 33' 10.632" N	89° 24' 56.674" E
12	26° 33' 10.187" N	89° 24' 56.415" E

POTENTIAL BLOCK AD_AD1_KJ_24 OF KALJANI RIVER

89°24'30"E

89°25'0"E

26°33'0"N

N
W
E
S

AD_AD1_KJ_24

KALJANI RIVER

AD_AD1_KJ_24		
POINT_NO	LATITUDE	LONGITUDE
1	26° 32' 52.981" N	89° 24' 43.348" E
2	26° 32' 51.106" N	89° 24' 39.845" E
3	26° 32' 53.827" N	89° 24' 37.751" E
4	26° 32' 55.184" N	89° 24' 35.937" E
5	26° 32' 56.838" N	89° 24' 35.370" E
6	26° 32' 58.348" N	89° 24' 34.844" E
7	26° 32' 58.718" N	89° 24' 34.770" E
8	26° 33' 0.000" N	89° 24' 35.588" E
9	26° 33' 1.748" N	89° 24' 36.681" E
10	26° 33' 3.130" N	89° 24' 37.563" E
11	26° 33' 3.282" N	89° 24' 37.737" E
12	26° 33' 3.460" N	89° 24' 38.172" E
13	26° 33' 3.648" N	89° 24' 38.158" E
14	26° 33' 4.759" N	89° 24' 39.434" E
15	26° 33' 6.556" N	89° 24' 41.541" E
16	26° 33' 9.409" N	89° 24' 43.364" E
17	26° 33' 11.491" N	89° 24' 44.788" E
18	26° 33' 13.356" N	89° 24' 46.081" E
19	26° 33' 13.587" N	89° 24' 46.241" E
20	26° 33' 15.638" N	89° 24' 48.432" E
21	26° 33' 17.134" N	89° 24' 50.016" E
22	26° 33' 18.109" N	89° 24' 51.039" E
23	26° 33' 17.235" N	89° 24' 51.383" E
24	26° 33' 15.001" N	89° 24' 50.022" E
25	26° 33' 12.138" N	89° 24' 47.811" E
26	26° 33' 9.116" N	89° 24' 48.584" E
27	26° 33' 5.329" N	89° 24' 50.178" E
28	26° 33' 1.557" N	89° 24' 50.815" E
29	26° 32' 58.377" N	89° 24' 48.240" E

LEGEND

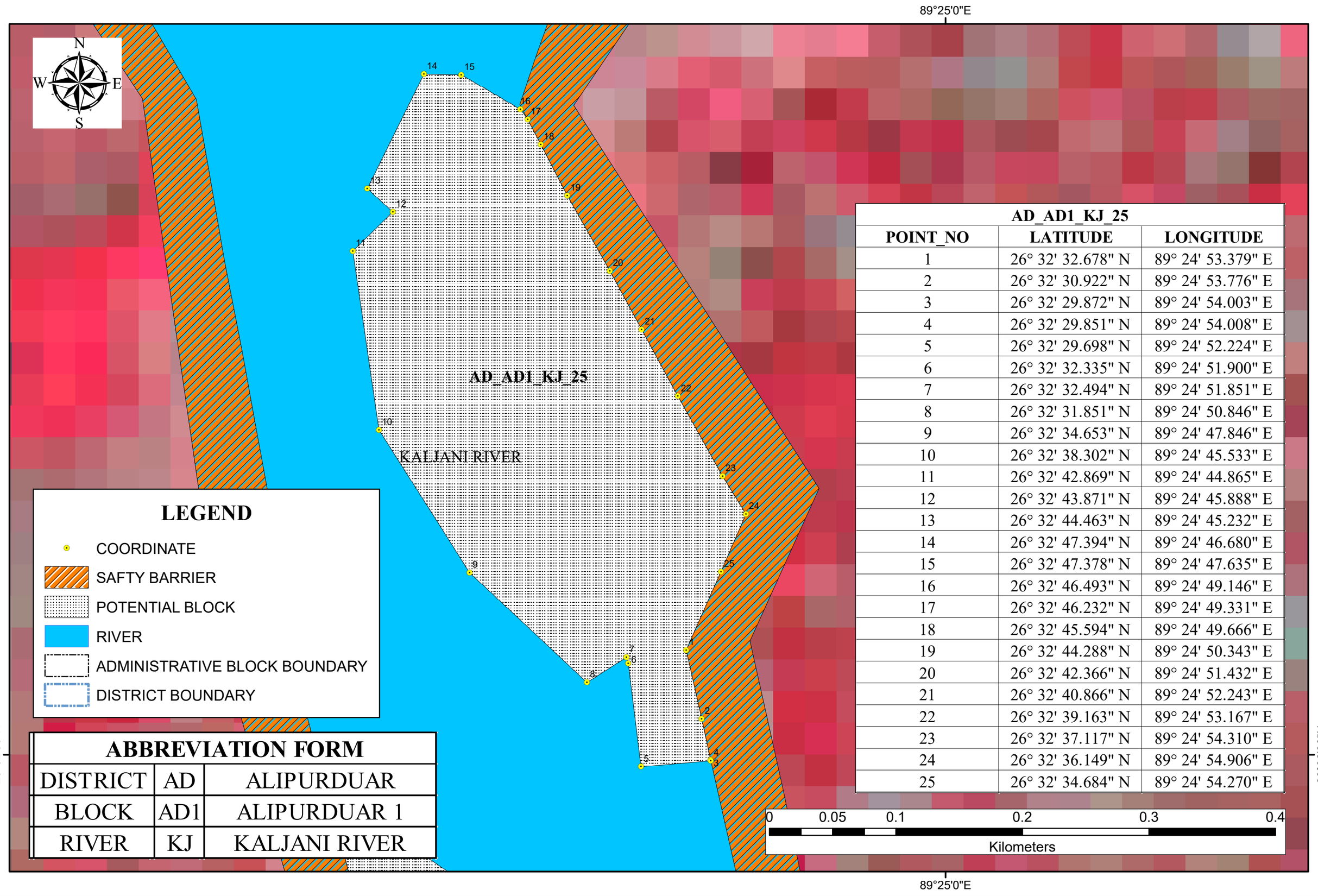
- COORDINATE
- SAFTY BARRIER
- POTENTIAL BLOCK
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR 1
RIVER	KJ	KALJANI RIVER

0 0.1 0.2 0.4 0.6 0.8

Kilometers

POTENTIAL BLOCK AD_AD1_KJ_25 OF KALJANI RIVER



AD_AD1_KJ_25		
POINT_NO	LATITUDE	LONGITUDE
1	26° 32' 32.678" N	89° 24' 53.379" E
2	26° 32' 30.922" N	89° 24' 53.776" E
3	26° 32' 29.872" N	89° 24' 54.003" E
4	26° 32' 29.851" N	89° 24' 54.008" E
5	26° 32' 29.698" N	89° 24' 52.224" E
6	26° 32' 32.335" N	89° 24' 51.900" E
7	26° 32' 32.494" N	89° 24' 51.851" E
8	26° 32' 31.851" N	89° 24' 50.846" E
9	26° 32' 34.653" N	89° 24' 47.846" E
10	26° 32' 38.302" N	89° 24' 45.533" E
11	26° 32' 42.869" N	89° 24' 44.865" E
12	26° 32' 43.871" N	89° 24' 45.888" E
13	26° 32' 44.463" N	89° 24' 45.232" E
14	26° 32' 47.394" N	89° 24' 46.680" E
15	26° 32' 47.378" N	89° 24' 47.635" E
16	26° 32' 46.493" N	89° 24' 49.146" E
17	26° 32' 46.232" N	89° 24' 49.331" E
18	26° 32' 45.594" N	89° 24' 49.666" E
19	26° 32' 44.288" N	89° 24' 50.343" E
20	26° 32' 42.366" N	89° 24' 51.432" E
21	26° 32' 40.866" N	89° 24' 52.243" E
22	26° 32' 39.163" N	89° 24' 53.167" E
23	26° 32' 37.117" N	89° 24' 54.310" E
24	26° 32' 36.149" N	89° 24' 54.906" E
25	26° 32' 34.684" N	89° 24' 54.270" E

LEGEND

- COORDINATE
- SAFTY BARRIER
- POTENTIAL BLOCK
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR 1
RIVER	KJ	KALJANI RIVER

POTENTIAL BLOCK AD_AD1_KJ_26 OF KALJANI RIVER

89°25'0"E

26°32'30"N

N
W E
S

AD_AD1_KJ_26

KALJANI RIV

LEGEND

- COORDINATE
- SAFTY BARRIER
- POTENTIAL BLOCK
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR 1
RIVER	KJ	KALJANI RIVER

AD_AD1_KJ_26		
POINT_NO	LATITUDE	LONGITUDE
1	26° 32' 16.581" N	89° 24' 49.093" E
2	26° 32' 12.631" N	89° 24' 48.819" E
3	26° 32' 12.767" N	89° 24' 47.657" E
4	26° 32' 14.902" N	89° 24' 47.150" E
5	26° 32' 18.389" N	89° 24' 46.216" E
6	26° 32' 19.100" N	89° 24' 46.100" E
7	26° 32' 22.367" N	89° 24' 45.571" E
8	26° 32' 25.293" N	89° 24' 45.170" E
9	26° 32' 28.134" N	89° 24' 44.480" E
10	26° 32' 29.107" N	89° 24' 44.210" E
11	26° 32' 26.344" N	89° 24' 48.286" E
12	26° 32' 25.769" N	89° 24' 48.274" E
13	26° 32' 23.184" N	89° 24' 49.995" E

0 0.05 0.1 0.2 0.3 0.4

Kilometers

89°25'0"E

POTENTIAL BLOCK AD_AD1_KJ_27 OF KALJANI RIVER

89°25'0"E

89°25'30"E

26°32'0"N

N

W

E

S

AD_AD1_KJ_27

KALJANI RIVER

AD_AD1_KJ_27		
POINT_NO	LATITUDE	LONGITUDE
1	26° 32' 2.387" N	89° 25' 14.207" E
2	26° 32' 2.412" N	89° 24' 57.580" E
3	26° 32' 4.432" N	89° 24' 55.042" E
4	26° 32' 5.951" N	89° 24' 51.105" E
5	26° 32' 9.437" N	89° 24' 49.305" E
6	26° 32' 12.242" N	89° 24' 49.115" E
7	26° 32' 13.324" N	89° 24' 49.167" E
8	26° 32' 14.603" N	89° 24' 54.212" E
9	26° 32' 17.059" N	89° 24' 55.597" E
10	26° 32' 17.232" N	89° 24' 57.888" E
11	26° 32' 17.109" N	89° 24' 57.948" E
12	26° 32' 14.820" N	89° 24' 59.130" E
13	26° 32' 13.487" N	89° 25' 0.577" E
14	26° 32' 12.038" N	89° 25' 2.300" E
15	26° 32' 11.220" N	89° 25' 3.280" E
16	26° 32' 10.278" N	89° 25' 4.248" E
17	26° 32' 9.311" N	89° 25' 5.273" E
18	26° 32' 8.720" N	89° 25' 5.953" E
19	26° 32' 8.354" N	89° 25' 6.504" E
20	26° 32' 7.895" N	89° 25' 7.133" E
21	26° 32' 7.038" N	89° 25' 8.533" E
22	26° 32' 6.947" N	89° 25' 8.729" E
23	26° 32' 5.830" N	89° 25' 9.700" E
24	26° 32' 4.478" N	89° 25' 13.399" E
25	26° 32' 2.392" N	89° 25' 14.246" E

LEGEND

- COORDINATE
- SAFTY BARRIER
- POTENTIAL BLOCK
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR 1
RIVER	KJ	KALJANI RIVER

0 0.1 0.2 0.4 0.6 0.8

Kilometers

POTENTIAL BLOCK AD_AD1_KJ_29_30 OF KALJANI RIVER

89°26'30"E 89°27'0"E 89°27'30"E

26°31'0"N 26°30'30"N

N W E S

KALJANI RIVER

LEGEND

- COORDINATE
- SAFTY BARRIER
- POTENTIAL BLOCK
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR 1
RIVER	KJ	KALJANI RIVER

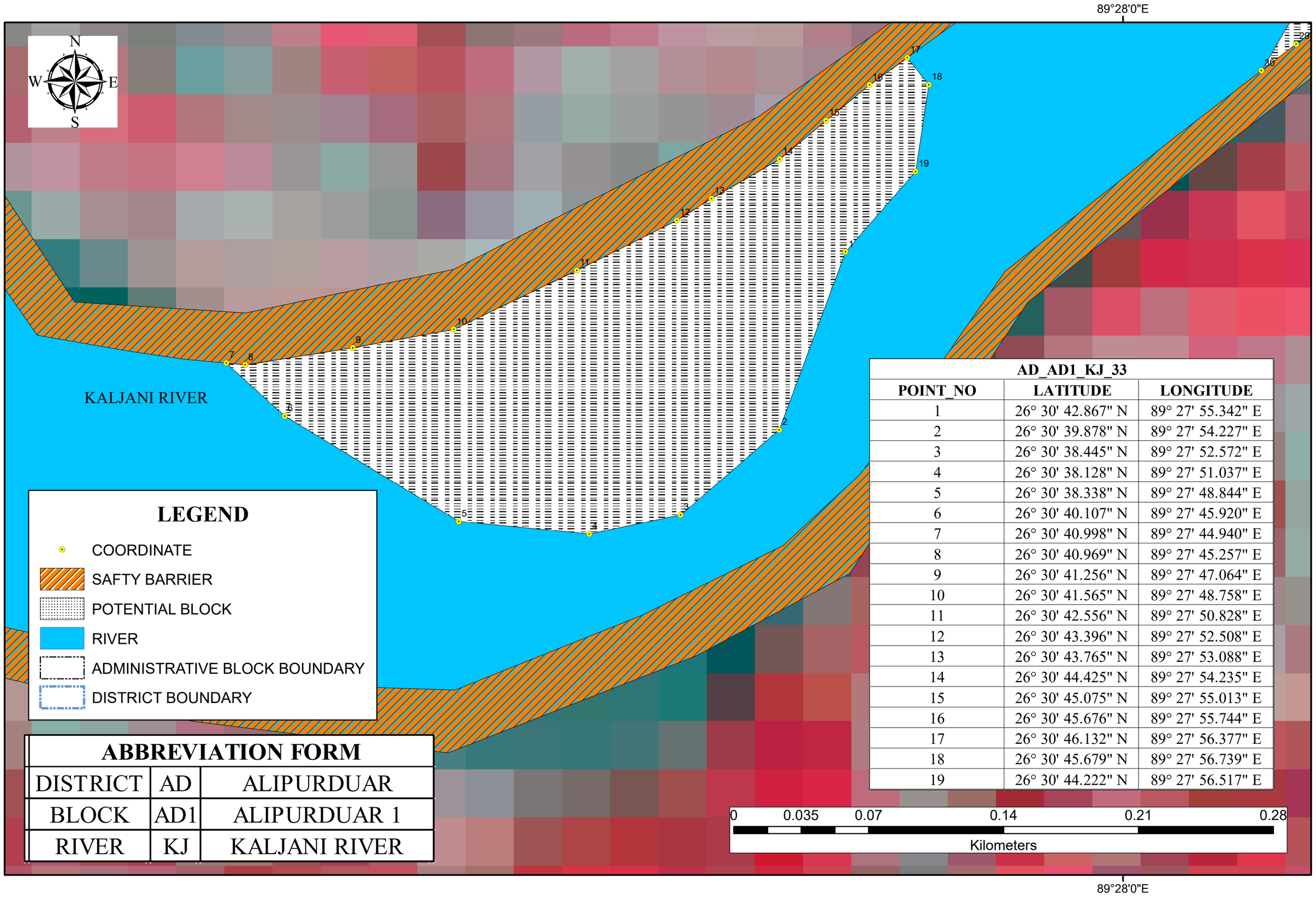
AD_AD1_KJ_29_30

POINT_NO	LATITUDE	LONGITUDE	POINT_NO	LATITUDE	LONGITUDE
1	26° 30' 56.627" N	89° 27' 15.510" E	19	26° 30' 55.996" N	89° 26' 37.880" E
2	26° 30' 53.776" N	89° 27' 21.373" E	20	26° 30' 55.729" N	89° 26' 39.383" E
3	26° 30' 52.583" N	89° 27' 20.774" E	21	26° 30' 55.571" N	89° 26' 40.980" E
4	26° 30' 55.008" N	89° 27' 14.711" E	22	26° 30' 55.323" N	89° 26' 43.558" E
5	26° 30' 55.419" N	89° 27' 10.803" E	23	26° 30' 55.165" N	89° 26' 45.191" E
6	26° 30' 55.167" N	89° 27' 5.447" E	24	26° 30' 55.885" N	89° 26' 49.560" E
7	26° 30' 53.608" N	89° 27' 1.114" E	25	26° 30' 56.099" N	89° 26' 50.670" E
8	26° 30' 53.369" N	89° 26' 58.954" E	26	26° 30' 56.312" N	89° 26' 52.433" E
9	26° 30' 52.698" N	89° 26' 58.608" E	27	26° 30' 56.811" N	89° 26' 53.520" E
10	26° 30' 51.384" N	89° 26' 55.525" E	28	26° 30' 57.276" N	89° 26' 54.525" E
11	26° 30' 51.679" N	89° 26' 53.334" E	29	26° 30' 57.830" N	89° 26' 55.924" E
12	26° 30' 51.100" N	89° 26' 46.535" E	30	26° 30' 58.402" N	89° 26' 57.370" E
13	26° 30' 52.313" N	89° 26' 36.436" E	31	26° 30' 59.292" N	89° 26' 59.482" E
14	26° 30' 54.273" N	89° 26' 35.251" E	32	26° 31' 0.365" N	89° 27' 1.664" E
15	26° 30' 57.308" N	89° 26' 33.389" E	33	26° 31' 0.751" N	89° 27' 4.206" E
16	26° 30' 57.973" N	89° 26' 33.338" E	34	26° 31' 0.682" N	89° 27' 7.648" E
17	26° 30' 57.371" N	89° 26' 34.181" E	35	26° 31' 0.109" N	89° 27' 10.551" E
18	26° 30' 56.733" N	89° 26' 35.732" E	36	26° 30' 59.543" N	89° 27' 12.213" E
			37	26° 30' 58.897" N	89° 27' 13.456" E

0 0.1 0.2 0.4 0.6 0.8

Kilometers

POTENTIAL BLOCK AD_AD1_KJ_33 OF KALJANI RIVER

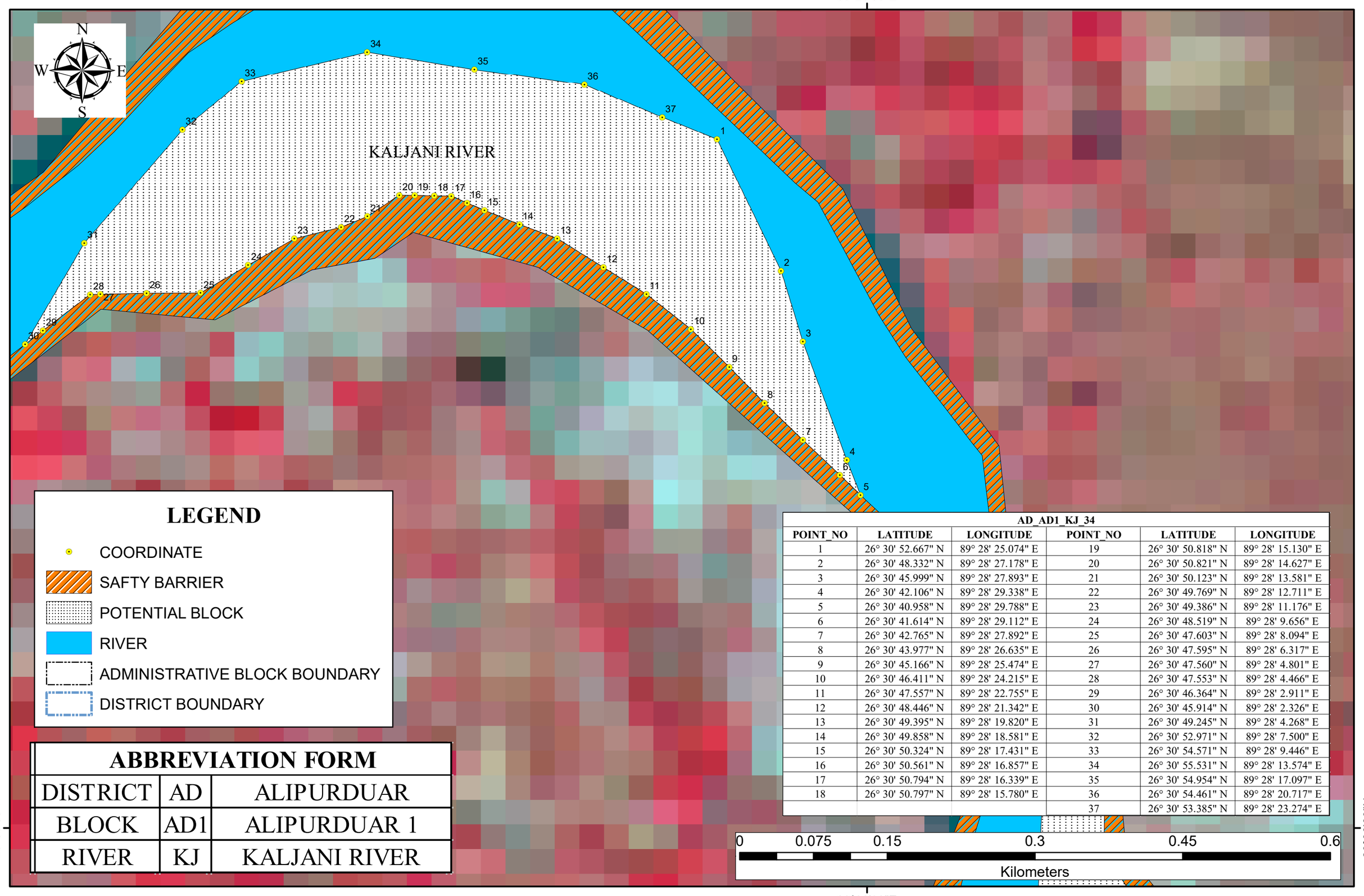


AD_AD1_KJ_33		
POINT_NO	LATITUDE	LONGITUDE
1	26° 30' 42.867" N	89° 27' 55.342" E
2	26° 30' 39.878" N	89° 27' 54.227" E
3	26° 30' 38.445" N	89° 27' 52.572" E
4	26° 30' 38.128" N	89° 27' 51.037" E
5	26° 30' 38.338" N	89° 27' 48.844" E
6	26° 30' 40.107" N	89° 27' 45.920" E
7	26° 30' 40.998" N	89° 27' 44.940" E
8	26° 30' 40.969" N	89° 27' 45.257" E
9	26° 30' 41.256" N	89° 27' 47.064" E
10	26° 30' 41.565" N	89° 27' 48.758" E
11	26° 30' 42.556" N	89° 27' 50.828" E
12	26° 30' 43.396" N	89° 27' 52.508" E
13	26° 30' 43.765" N	89° 27' 53.088" E
14	26° 30' 44.425" N	89° 27' 54.235" E
15	26° 30' 45.075" N	89° 27' 55.013" E
16	26° 30' 45.676" N	89° 27' 55.744" E
17	26° 30' 46.132" N	89° 27' 56.377" E
18	26° 30' 45.679" N	89° 27' 56.739" E
19	26° 30' 44.222" N	89° 27' 56.517" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR 1
RIVER	KJ	KALJANI RIVER

POTENTIAL BLOCK AD_AD1_KJ_34 OF KALJANI RIVER

89°28'30"E



LEGEND

- COORDINATE
- SAFTY BARRIER
- POTENTIAL BLOCK
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR 1
RIVER	KJ	KALJANI RIVER

AD_AD1_KJ_34					
POINT_NO	LATITUDE	LONGITUDE	POINT_NO	LATITUDE	LONGITUDE
1	26° 30' 52.667" N	89° 28' 25.074" E	19	26° 30' 50.818" N	89° 28' 15.130" E
2	26° 30' 48.332" N	89° 28' 27.178" E	20	26° 30' 50.821" N	89° 28' 14.627" E
3	26° 30' 45.999" N	89° 28' 27.893" E	21	26° 30' 50.123" N	89° 28' 13.581" E
4	26° 30' 42.106" N	89° 28' 29.338" E	22	26° 30' 49.769" N	89° 28' 12.711" E
5	26° 30' 40.958" N	89° 28' 29.788" E	23	26° 30' 49.386" N	89° 28' 11.176" E
6	26° 30' 41.614" N	89° 28' 29.112" E	24	26° 30' 48.519" N	89° 28' 9.656" E
7	26° 30' 42.765" N	89° 28' 27.892" E	25	26° 30' 47.603" N	89° 28' 8.094" E
8	26° 30' 43.977" N	89° 28' 26.635" E	26	26° 30' 47.595" N	89° 28' 6.317" E
9	26° 30' 45.166" N	89° 28' 25.474" E	27	26° 30' 47.560" N	89° 28' 4.801" E
10	26° 30' 46.411" N	89° 28' 24.215" E	28	26° 30' 47.553" N	89° 28' 4.466" E
11	26° 30' 47.557" N	89° 28' 22.755" E	29	26° 30' 46.364" N	89° 28' 2.911" E
12	26° 30' 48.446" N	89° 28' 21.342" E	30	26° 30' 45.914" N	89° 28' 2.326" E
13	26° 30' 49.395" N	89° 28' 19.820" E	31	26° 30' 49.245" N	89° 28' 4.268" E
14	26° 30' 49.858" N	89° 28' 18.581" E	32	26° 30' 52.971" N	89° 28' 7.500" E
15	26° 30' 50.324" N	89° 28' 17.431" E	33	26° 30' 54.571" N	89° 28' 9.446" E
16	26° 30' 50.561" N	89° 28' 16.857" E	34	26° 30' 55.531" N	89° 28' 13.574" E
17	26° 30' 50.794" N	89° 28' 16.339" E	35	26° 30' 54.954" N	89° 28' 17.097" E
18	26° 30' 50.797" N	89° 28' 15.780" E	36	26° 30' 54.461" N	89° 28' 20.717" E
			37	26° 30' 53.385" N	89° 28' 23.274" E

0 0.075 0.15 0.3 0.45 0.6

Kilometers

26°30'30"N

89°28'30"E

POTENTIAL BLOCK AD_AD1_KJ_35 OF KALJANI RIVER

89°28'30"E

89°29'0"E

26°30'30"N



KALJANI RIVER

AD_AD1_KJ_35		
POINT_NO	LATITUDE	LONGITUDE
1	26° 30' 18.716" N	89° 28' 38.881" E
2	26° 30' 17.365" N	89° 28' 38.456" E
3	26° 30' 19.386" N	89° 28' 35.920" E
4	26° 30' 23.864" N	89° 28' 35.443" E
5	26° 30' 31.931" N	89° 28' 35.803" E
6	26° 30' 31.603" N	89° 28' 37.043" E
7	26° 30' 30.617" N	89° 28' 37.816" E
8	26° 30' 29.235" N	89° 28' 37.787" E
9	26° 30' 27.990" N	89° 28' 38.591" E
10	26° 30' 27.050" N	89° 28' 39.395" E
11	26° 30' 26.265" N	89° 28' 40.151" E
12	26° 30' 24.867" N	89° 28' 40.121" E
13	26° 30' 23.776" N	89° 28' 40.223" E
14	26° 30' 22.712" N	89° 28' 40.302" E
15	26° 30' 21.248" N	89° 28' 40.362" E
16	26° 30' 21.039" N	89° 28' 40.073" E
17	26° 30' 20.955" N	89° 28' 39.584" E
18	26° 30' 20.605" N	89° 28' 39.474" E
19	26° 30' 20.584" N	89° 28' 39.445" E
20	26° 30' 19.946" N	89° 28' 38.522" E
21	26° 30' 19.044" N	89° 28' 38.785" E

LEGEND

- COORDINATE
- SAFTY BARRIER
- POTENTIAL BLOCK
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR 1
RIVER	KJ	KALJANI RIVER

0 0.075 0.15 0.3 0.45 0.6

Kilometers

89°28'30"E

89°29'0"E

POTENTIAL BLOCK AD_AD1_KJ_36 OF KALJANI RIVER

89°29'0"E

26°30'0"N



KALJANI RIVER

AD_AD1_KJ_36

AD_AD1_KJ_36		
POINT_NO	LATITUDE	LONGITUDE
1	26° 30' 3.206" N	89° 29' 6.716" E
2	26° 29' 59.867" N	89° 29' 5.976" E
3	26° 29' 57.405" N	89° 29' 4.203" E
4	26° 29' 56.434" N	89° 29' 0.743" E
5	26° 29' 56.918" N	89° 28' 57.601" E
6	26° 30' 0.357" N	89° 28' 52.612" E
7	26° 30' 4.275" N	89° 28' 48.503" E
8	26° 30' 4.142" N	89° 28' 49.833" E
9	26° 30' 3.315" N	89° 28' 50.881" E
10	26° 30' 2.638" N	89° 28' 51.664" E
11	26° 30' 2.074" N	89° 28' 53.481" E
12	26° 30' 1.614" N	89° 28' 54.514" E
13	26° 30' 0.959" N	89° 28' 56.009" E
14	26° 30' 0.530" N	89° 28' 56.838" E
15	26° 30' 0.431" N	89° 28' 57.279" E
16	26° 30' 0.429" N	89° 28' 57.519" E
17	26° 30' 0.429" N	89° 28' 57.771" E
18	26° 30' 0.545" N	89° 28' 58.989" E
19	26° 30' 0.664" N	89° 29' 0.415" E
20	26° 30' 0.812" N	89° 29' 1.552" E
21	26° 30' 1.522" N	89° 29' 2.357" E
22	26° 30' 2.270" N	89° 29' 3.116" E
23	26° 30' 3.199" N	89° 29' 4.020" E
24	26° 30' 4.028" N	89° 29' 4.751" E
25	26° 30' 5.016" N	89° 29' 5.641" E
26	26° 30' 5.048" N	89° 29' 6.859" E
27	26° 30' 5.097" N	89° 29' 7.134" E

LEGEND

- COORDINATE
- SAFTY BARRIER
- POTENTIAL BLOCK
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR 1
RIVER	KJ	KALJANI RIVER

0 0.075 0.15 0.3 0.45 0.6

Kilometers

89°29'0"E

POTENTIAL BLOCK AD_AD1_KJ_37 OF KALJANI RIVER

89°29'0"E

26°30'0"N

AD_AD1_KJ_37

KALJANI RIVER

AD_AD1_KJ_37		
POINT_NO	LATITUDE	LONGITUDE
1	26° 29' 53.796" N	89° 28' 54.286" E
2	26° 29' 53.577" N	89° 28' 52.440" E
3	26° 29' 53.858" N	89° 28' 51.077" E
4	26° 29' 54.999" N	89° 28' 49.752" E
5	26° 29' 56.061" N	89° 28' 47.768" E
6	26° 29' 56.991" N	89° 28' 46.040" E
7	26° 29' 58.038" N	89° 28' 43.576" E
8	26° 29' 59.516" N	89° 28' 42.249" E
9	26° 30' 1.019" N	89° 28' 40.875" E
10	26° 30' 2.236" N	89° 28' 39.758" E
11	26° 30' 4.016" N	89° 28' 39.383" E
12	26° 30' 5.470" N	89° 28' 39.077" E
13	26° 30' 7.106" N	89° 28' 38.712" E
14	26° 30' 8.648" N	89° 28' 38.394" E
15	26° 30' 9.167" N	89° 28' 38.261" E
16	26° 30' 7.088" N	89° 28' 41.197" E
17	26° 30' 4.742" N	89° 28' 42.675" E
18	26° 30' 2.217" N	89° 28' 44.532" E
19	26° 30' 0.016" N	89° 28' 47.542" E
20	26° 29' 56.610" N	89° 28' 50.621" E

LEGEND

- COORDINATE
- SAFTY BARRIER
- POTENTIAL BLOCK
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR 1
RIVER	KJ	KALJANI RIVER

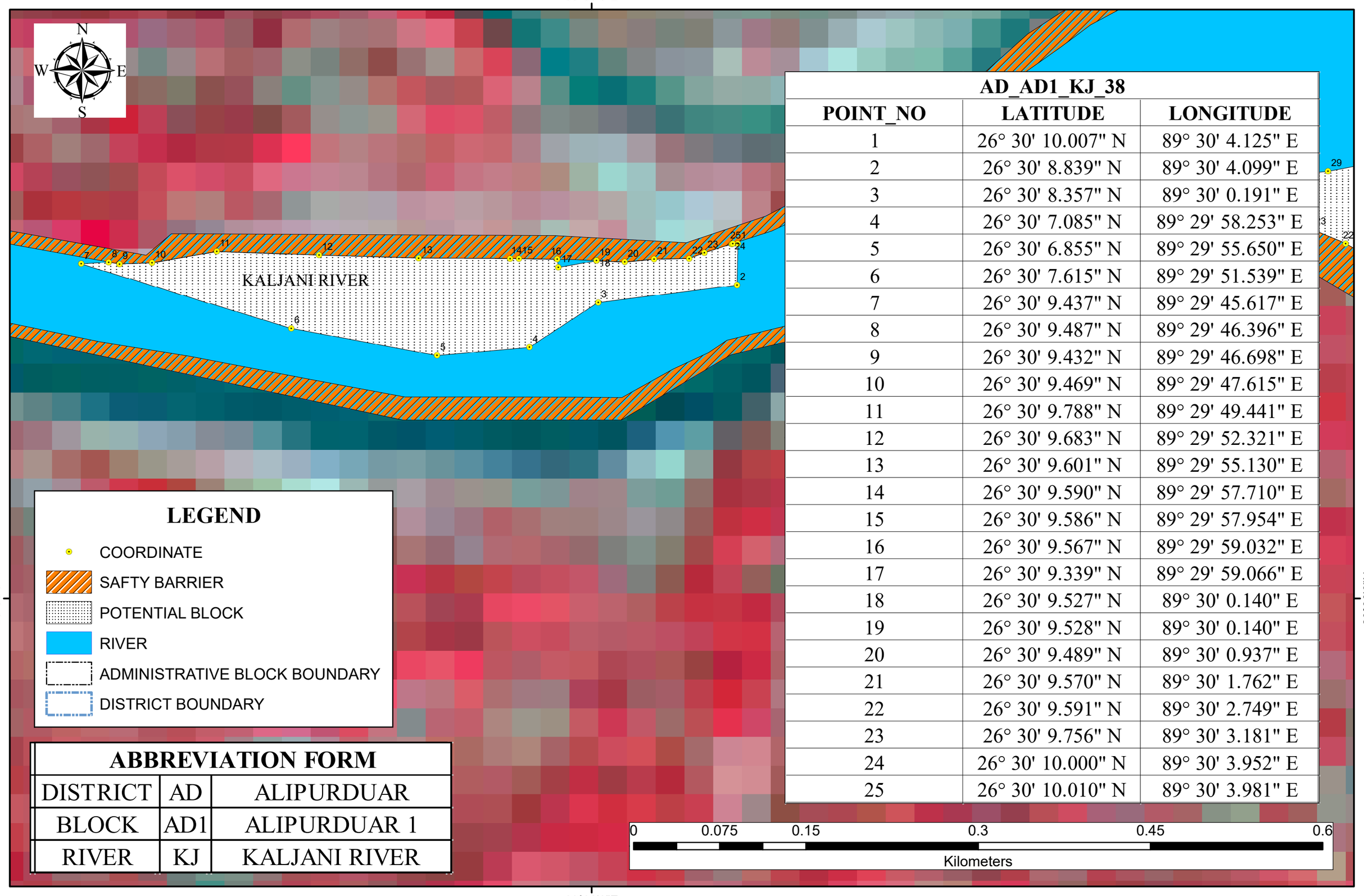
0 0.075 0.15 0.3 0.45 0.6

Kilometers

89°29'0"E

POTENTIAL BLOCK AD_AD1_KJ_38 OF KALJANI RIVER

89°30'0"E



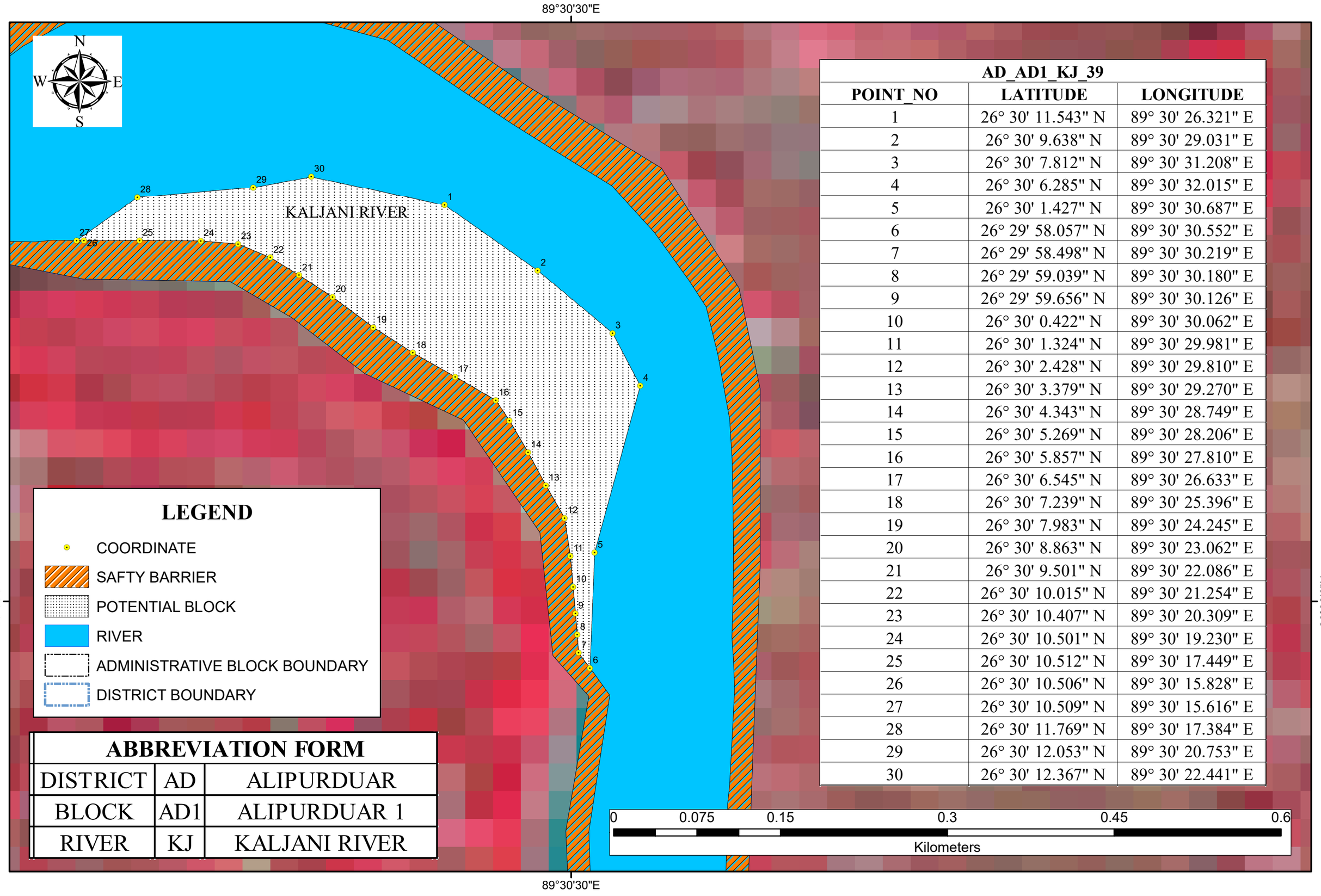
AD_AD1_KJ_38		
POINT_NO	LATITUDE	LONGITUDE
1	26° 30' 10.007" N	89° 30' 4.125" E
2	26° 30' 8.839" N	89° 30' 4.099" E
3	26° 30' 8.357" N	89° 30' 0.191" E
4	26° 30' 7.085" N	89° 29' 58.253" E
5	26° 30' 6.855" N	89° 29' 55.650" E
6	26° 30' 7.615" N	89° 29' 51.539" E
7	26° 30' 9.437" N	89° 29' 45.617" E
8	26° 30' 9.487" N	89° 29' 46.396" E
9	26° 30' 9.432" N	89° 29' 46.698" E
10	26° 30' 9.469" N	89° 29' 47.615" E
11	26° 30' 9.788" N	89° 29' 49.441" E
12	26° 30' 9.683" N	89° 29' 52.321" E
13	26° 30' 9.601" N	89° 29' 55.130" E
14	26° 30' 9.590" N	89° 29' 57.710" E
15	26° 30' 9.586" N	89° 29' 57.954" E
16	26° 30' 9.567" N	89° 29' 59.032" E
17	26° 30' 9.339" N	89° 29' 59.066" E
18	26° 30' 9.527" N	89° 30' 0.140" E
19	26° 30' 9.528" N	89° 30' 0.140" E
20	26° 30' 9.489" N	89° 30' 0.937" E
21	26° 30' 9.570" N	89° 30' 1.762" E
22	26° 30' 9.591" N	89° 30' 2.749" E
23	26° 30' 9.756" N	89° 30' 3.181" E
24	26° 30' 10.000" N	89° 30' 3.952" E
25	26° 30' 10.010" N	89° 30' 3.981" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR 1
RIVER	KJ	KALJANI RIVER

26°30'0"N

89°30'0"E

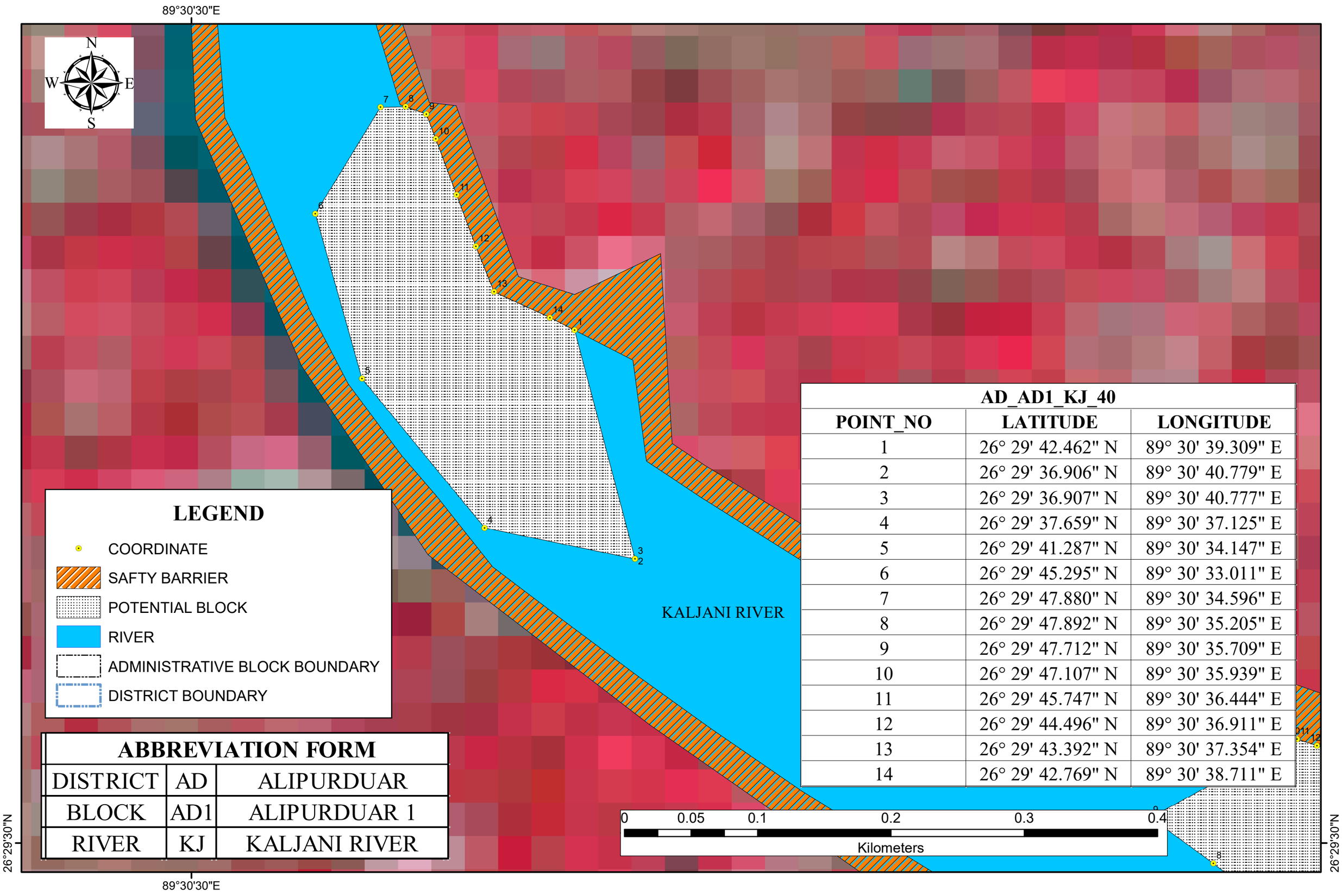
POTENTIAL BLOCK AD_AD1_KJ_39 OF KALJANI RIVER



AD_AD1_KJ_39		
POINT_NO	LATITUDE	LONGITUDE
1	26° 30' 11.543" N	89° 30' 26.321" E
2	26° 30' 9.638" N	89° 30' 29.031" E
3	26° 30' 7.812" N	89° 30' 31.208" E
4	26° 30' 6.285" N	89° 30' 32.015" E
5	26° 30' 1.427" N	89° 30' 30.687" E
6	26° 29' 58.057" N	89° 30' 30.552" E
7	26° 29' 58.498" N	89° 30' 30.219" E
8	26° 29' 59.039" N	89° 30' 30.180" E
9	26° 29' 59.656" N	89° 30' 30.126" E
10	26° 30' 0.422" N	89° 30' 30.062" E
11	26° 30' 1.324" N	89° 30' 29.981" E
12	26° 30' 2.428" N	89° 30' 29.810" E
13	26° 30' 3.379" N	89° 30' 29.270" E
14	26° 30' 4.343" N	89° 30' 28.749" E
15	26° 30' 5.269" N	89° 30' 28.206" E
16	26° 30' 5.857" N	89° 30' 27.810" E
17	26° 30' 6.545" N	89° 30' 26.633" E
18	26° 30' 7.239" N	89° 30' 25.396" E
19	26° 30' 7.983" N	89° 30' 24.245" E
20	26° 30' 8.863" N	89° 30' 23.062" E
21	26° 30' 9.501" N	89° 30' 22.086" E
22	26° 30' 10.015" N	89° 30' 21.254" E
23	26° 30' 10.407" N	89° 30' 20.309" E
24	26° 30' 10.501" N	89° 30' 19.230" E
25	26° 30' 10.512" N	89° 30' 17.449" E
26	26° 30' 10.506" N	89° 30' 15.828" E
27	26° 30' 10.509" N	89° 30' 15.616" E
28	26° 30' 11.769" N	89° 30' 17.384" E
29	26° 30' 12.053" N	89° 30' 20.753" E
30	26° 30' 12.367" N	89° 30' 22.441" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR 1
RIVER	KJ	KALJANI RIVER

POTENTIAL BLOCK AD_AD1_KJ_40 OF KALJANI RIVER



LEGEND

- COORDINATE
- SAFTY BARRIER
- POTENTIAL BLOCK
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR 1
RIVER	KJ	KALJANI RIVER

AD_AD1_KJ_40		
POINT_NO	LATITUDE	LONGITUDE
1	26° 29' 42.462" N	89° 30' 39.309" E
2	26° 29' 36.906" N	89° 30' 40.779" E
3	26° 29' 36.907" N	89° 30' 40.777" E
4	26° 29' 37.659" N	89° 30' 37.125" E
5	26° 29' 41.287" N	89° 30' 34.147" E
6	26° 29' 45.295" N	89° 30' 33.011" E
7	26° 29' 47.880" N	89° 30' 34.596" E
8	26° 29' 47.892" N	89° 30' 35.205" E
9	26° 29' 47.712" N	89° 30' 35.709" E
10	26° 29' 47.107" N	89° 30' 35.939" E
11	26° 29' 45.747" N	89° 30' 36.444" E
12	26° 29' 44.496" N	89° 30' 36.911" E
13	26° 29' 43.392" N	89° 30' 37.354" E
14	26° 29' 42.769" N	89° 30' 38.711" E

POTENTIAL BLOCK AD_AD1_KJ_41 OF KALJANI RIVER

89°31'0"E

26°29'30"N



KALJANI RIVER

LEGEND

- COORDINATE
- SAFTY BARRIER
- POTENTIAL BLOCK
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

AD_AD1_KJ_41		
POINT_NO	LATITUDE	LONGITUDE
1	26° 29' 20.340" N	89° 31' 11.670" E
2	26° 29' 18.080" N	89° 31' 11.163" E
3	26° 29' 19.134" N	89° 31' 9.887" E
4	26° 29' 20.212" N	89° 31' 7.235" E
5	26° 29' 21.241" N	89° 31' 3.514" E
6	26° 29' 22.993" N	89° 31' 1.641" E
7	26° 29' 26.132" N	89° 30' 59.112" E
8	26° 29' 29.508" N	89° 30' 54.829" E
9	26° 29' 30.621" N	89° 30' 53.291" E
10	26° 29' 32.524" N	89° 30' 56.827" E
11	26° 29' 32.525" N	89° 30' 56.861" E
12	26° 29' 32.366" N	89° 30' 57.342" E
13	26° 29' 32.030" N	89° 30' 58.221" E
14	26° 29' 30.593" N	89° 30' 59.591" E
15	26° 29' 29.105" N	89° 31' 2.080" E
16	26° 29' 25.586" N	89° 31' 6.665" E
17	26° 29' 23.641" N	89° 31' 11.666" E

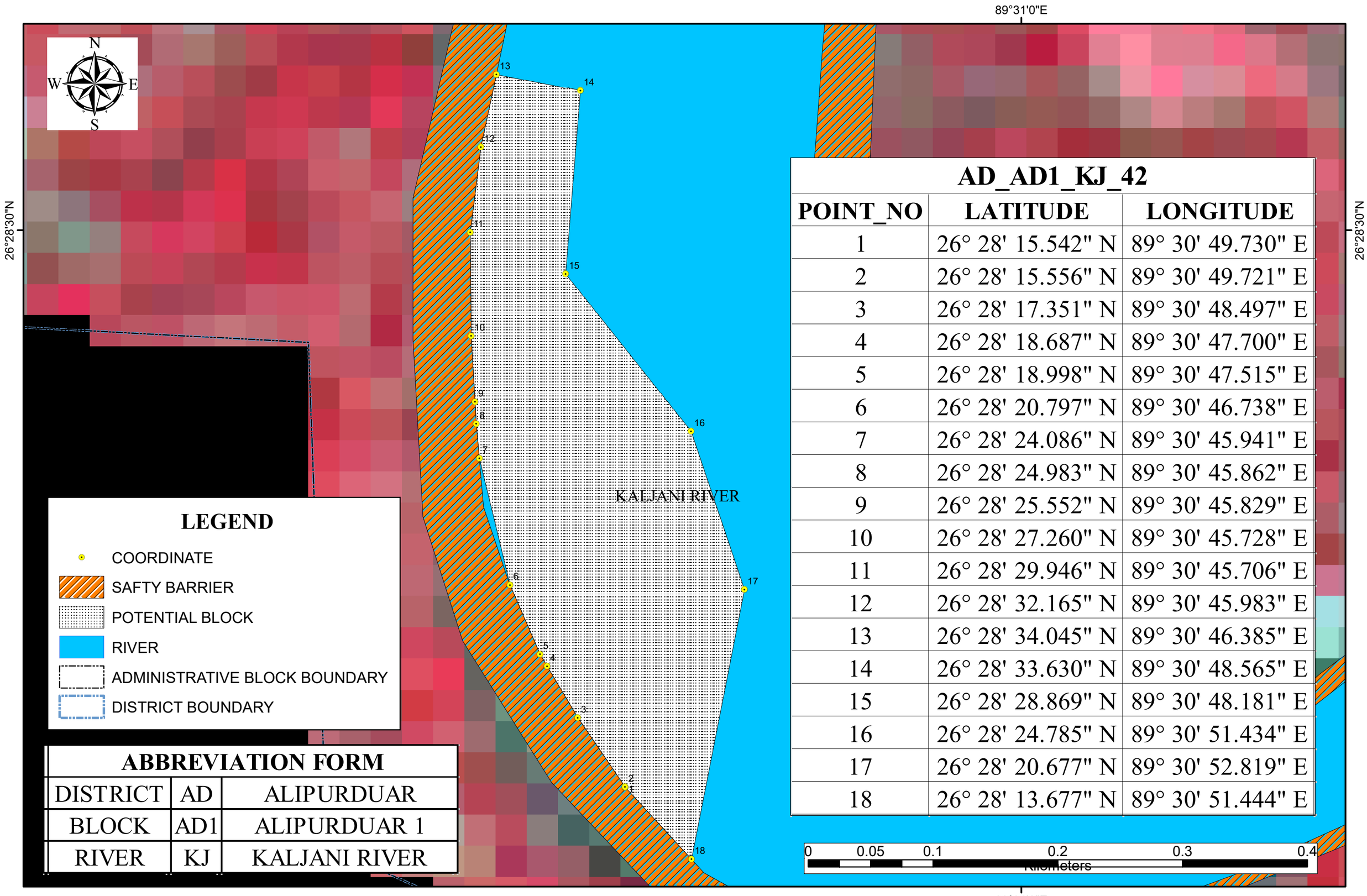
ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR 1
RIVER	KJ	KALJANI RIVER

0 0.05 0.1 0.2 0.3 0.4

Kilometers

89°31'0"E

POTENTIAL BLOCK AD_AD1_KJ_42 OF KALJANI RIVER



AD_AD1_KJ_42		
POINT_NO	LATITUDE	LONGITUDE
1	26° 28' 15.542" N	89° 30' 49.730" E
2	26° 28' 15.556" N	89° 30' 49.721" E
3	26° 28' 17.351" N	89° 30' 48.497" E
4	26° 28' 18.687" N	89° 30' 47.700" E
5	26° 28' 18.998" N	89° 30' 47.515" E
6	26° 28' 20.797" N	89° 30' 46.738" E
7	26° 28' 24.086" N	89° 30' 45.941" E
8	26° 28' 24.983" N	89° 30' 45.862" E
9	26° 28' 25.552" N	89° 30' 45.829" E
10	26° 28' 27.260" N	89° 30' 45.728" E
11	26° 28' 29.946" N	89° 30' 45.706" E
12	26° 28' 32.165" N	89° 30' 45.983" E
13	26° 28' 34.045" N	89° 30' 46.385" E
14	26° 28' 33.630" N	89° 30' 48.565" E
15	26° 28' 28.869" N	89° 30' 48.181" E
16	26° 28' 24.785" N	89° 30' 51.434" E
17	26° 28' 20.677" N	89° 30' 52.819" E
18	26° 28' 13.677" N	89° 30' 51.444" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR 1
RIVER	KJ	KALJANI RIVER

POTENTIAL BLOCK AD_AD1_KJ_43 OF KALJANI RIVER

89°31'30"E

89°32'0"E

26°28'30"N

KALJANI RIVER

AD_AD1_KJ_43

AD_AD1_KJ_43		
POINT_NO	LATITUDE	LONGITUDE
1	26° 28' 26.898" N	89° 31' 38.209" E
2	26° 28' 22.761" N	89° 31' 32.220" E
3	26° 28' 25.357" N	89° 31' 29.446" E
4	26° 28' 26.357" N	89° 31' 30.851" E
5	26° 28' 27.191" N	89° 31' 32.022" E
6	26° 28' 29.308" N	89° 31' 34.802" E
7	26° 28' 31.046" N	89° 31' 37.463" E
8	26° 28' 31.512" N	89° 31' 38.237" E
9	26° 28' 32.048" N	89° 31' 39.836" E
10	26° 28' 33.295" N	89° 31' 41.398" E
11	26° 28' 34.208" N	89° 31' 43.399" E
12	26° 28' 34.478" N	89° 31' 43.989" E
13	26° 28' 35.779" N	89° 31' 47.631" E
14	26° 28' 37.222" N	89° 31' 50.915" E
15	26° 28' 37.732" N	89° 31' 52.096" E
16	26° 28' 38.561" N	89° 31' 54.012" E
17	26° 28' 38.917" N	89° 31' 55.523" E
18	26° 28' 38.867" N	89° 31' 57.035" E
19	26° 28' 37.467" N	89° 31' 55.355" E
20	26° 28' 35.001" N	89° 31' 55.062" E
21	26° 28' 32.746" N	89° 31' 48.924" E
22	26° 28' 30.687" N	89° 31' 43.865" E

LEGEND

- COORDINATE
- SAFTY BARRIER
- POTENTIAL BLOCK
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR 1
RIVER	KJ	KALJANI RIVER

0 0.075 0.15 0.3 0.45 0.6

Kilometers

89°31'30"E

89°32'0"E

POTENTIAL BLOCK AD_AD2_KJ_45_46 OF KALJANI RIVER

89°33'0"E

26°28'0"N

N
W E
S

KALJANI RIVER

LEGEND

- COORDINATE
- SAFTY BARRIER
- POTENTIAL BLOCK
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD2	ALIPURDUAR 2
RIVER	KJ	KALJANI RIVER

AD_AD2_KJ_45_46		
POINT_NO	LATITUDE	LONGITUDE
1	26° 28' 0.784" N	89° 32' 36.180" E
2	26° 27' 59.654" N	89° 32' 37.640" E
3	26° 27' 58.807" N	89° 32' 42.740" E
4	26° 27' 56.614" N	89° 32' 46.484" E
5	26° 27' 53.591" N	89° 32' 49.124" E
6	26° 27' 52.345" N	89° 32' 49.718" E
7	26° 27' 49.370" N	89° 32' 49.374" E
8	26° 27' 48.655" N	89° 32' 48.916" E
9	26° 27' 48.524" N	89° 32' 48.702" E
10	26° 27' 49.986" N	89° 32' 47.665" E
11	26° 27' 53.755" N	89° 32' 44.539" E
12	26° 27' 56.779" N	89° 32' 40.786" E
13	26° 27' 57.920" N	89° 32' 36.107" E

0 0.05 0.1 0.2 0.3 0.4
Kilometers

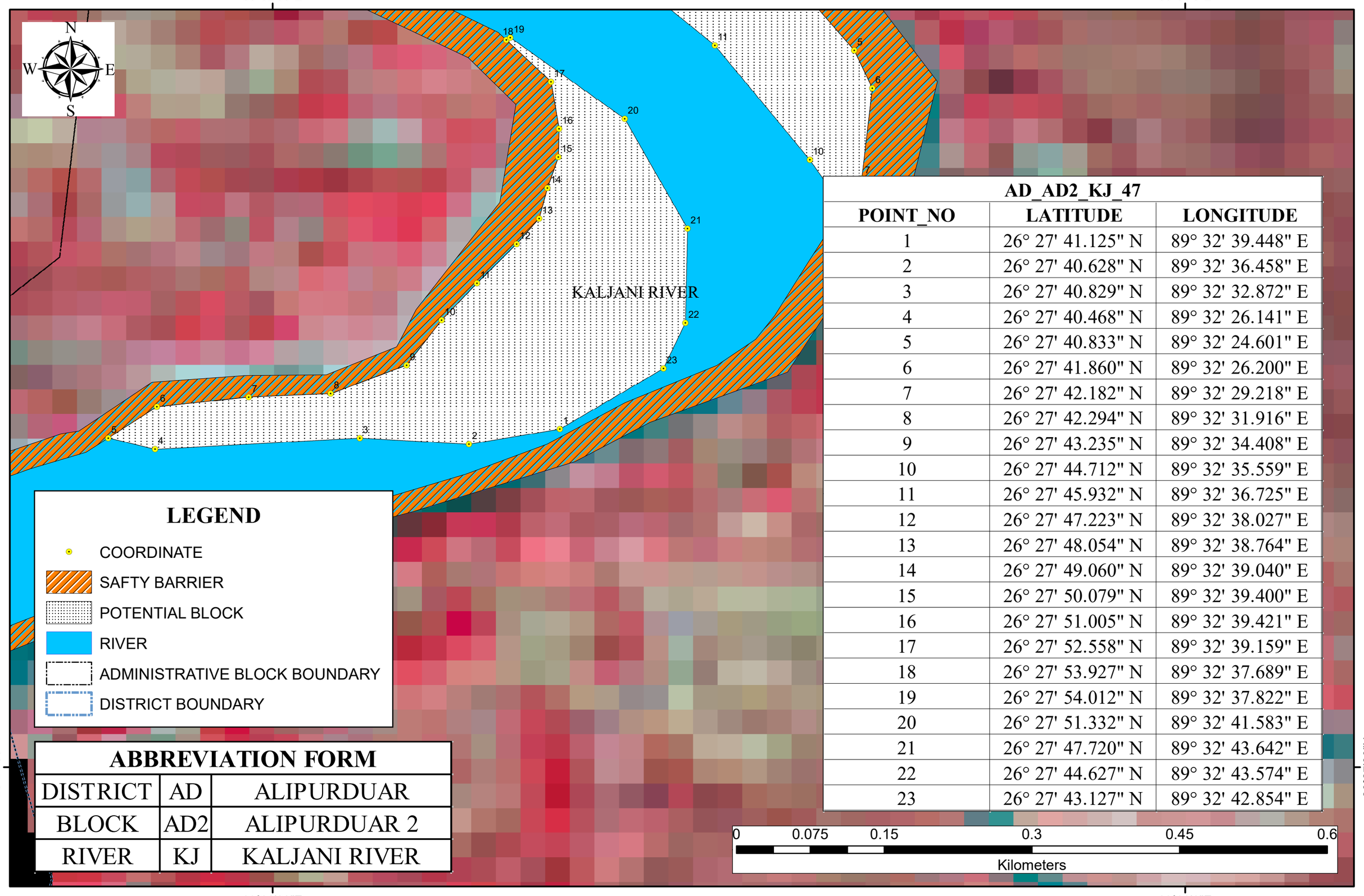
89°33'0"E

POTENTIAL BLOCK AD_AD2_KJ_47 OF KALJANI RIVER

89°32'30"E

89°33'0"E

26°27'30"N



AD_AD2_KJ_47		
POINT_NO	LATITUDE	LONGITUDE
1	26° 27' 41.125" N	89° 32' 39.448" E
2	26° 27' 40.628" N	89° 32' 36.458" E
3	26° 27' 40.829" N	89° 32' 32.872" E
4	26° 27' 40.468" N	89° 32' 26.141" E
5	26° 27' 40.833" N	89° 32' 24.601" E
6	26° 27' 41.860" N	89° 32' 26.200" E
7	26° 27' 42.182" N	89° 32' 29.218" E
8	26° 27' 42.294" N	89° 32' 31.916" E
9	26° 27' 43.235" N	89° 32' 34.408" E
10	26° 27' 44.712" N	89° 32' 35.559" E
11	26° 27' 45.932" N	89° 32' 36.725" E
12	26° 27' 47.223" N	89° 32' 38.027" E
13	26° 27' 48.054" N	89° 32' 38.764" E
14	26° 27' 49.060" N	89° 32' 39.040" E
15	26° 27' 50.079" N	89° 32' 39.400" E
16	26° 27' 51.005" N	89° 32' 39.421" E
17	26° 27' 52.558" N	89° 32' 39.159" E
18	26° 27' 53.927" N	89° 32' 37.689" E
19	26° 27' 54.012" N	89° 32' 37.822" E
20	26° 27' 51.332" N	89° 32' 41.583" E
21	26° 27' 47.720" N	89° 32' 43.642" E
22	26° 27' 44.627" N	89° 32' 43.574" E
23	26° 27' 43.127" N	89° 32' 42.854" E

LEGEND

- COORDINATE
- SAFTY BARRIER
- POTENTIAL BLOCK
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD2	ALIPURDUAR 2
RIVER	KJ	KALJANI RIVER

0 0.075 0.15 0.3 0.45 0.6

Kilometers

POTENTIAL BLOCK AD_AD2_KJ_48 OF KALJANI RIVER

89°32'30"E

89°33'0"E

26°27'0"N

N

W E

S

AD_AD2_KJ_48

KALJANI RIVER

AD_AD2_KJ_48		
POINT_NO	LATITUDE	LONGITUDE
1	26° 27' 10.143" N	89° 32' 42.455" E
2	26° 27' 8.256" N	89° 32' 45.128" E
3	26° 27' 8.241" N	89° 32' 45.141" E
4	26° 27' 7.262" N	89° 32' 45.321" E
5	26° 27' 7.762" N	89° 32' 44.262" E
6	26° 27' 8.970" N	89° 32' 42.074" E
7	26° 27' 9.428" N	89° 32' 39.563" E
8	26° 27' 9.460" N	89° 32' 37.730" E
9	26° 27' 9.287" N	89° 32' 35.893" E
10	26° 27' 8.842" N	89° 32' 33.821" E
11	26° 27' 6.402" N	89° 32' 27.961" E
12	26° 27' 3.746" N	89° 32' 25.167" E
13	26° 27' 3.964" N	89° 32' 24.044" E
14	26° 27' 4.168" N	89° 32' 22.971" E
15	26° 27' 7.068" N	89° 32' 25.147" E
16	26° 27' 7.328" N	89° 32' 25.807" E
17	26° 27' 7.515" N	89° 32' 26.452" E
18	26° 27' 7.594" N	89° 32' 26.726" E
19	26° 27' 8.387" N	89° 32' 29.463" E
20	26° 27' 8.400" N	89° 32' 29.490" E
21	26° 27' 9.203" N	89° 32' 31.248" E
22	26° 27' 10.449" N	89° 32' 34.040" E
23	26° 27' 10.487" N	89° 32' 36.872" E
24	26° 27' 10.407" N	89° 32' 39.538" E

LEGEND

- COORDINATE
- SAFTY BARRIER
- POTENTIAL BLOCK
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD2	ALIPURDUAR 2
RIVER	KJ	KALJANI RIVER

0 0.075 0.15 0.3 0.45 0.6

Kilometers

POTENTIAL BLOCK AD_AD2_KJ_49 OF KALJANI RIVER

89°33'0"E

26°27'0"N

N
W E
S

21 20 19 22 23 18 17 16 15 24 14 13 25 12 11 10 9 8 7 1 6 5 4 3 2

KALJANI RIVER

AD_AD2_KJ_49		
POINT_NO	LATITUDE	LONGITUDE
1	26° 26' 49.191" N	89° 32' 48.437" E
2	26° 26' 41.763" N	89° 32' 48.503" E
3	26° 26' 43.135" N	89° 32' 46.908" E
4	26° 26' 43.647" N	89° 32' 46.794" E
5	26° 26' 44.630" N	89° 32' 46.574" E
6	26° 26' 46.960" N	89° 32' 46.206" E
7	26° 26' 49.128" N	89° 32' 45.790" E
8	26° 26' 49.474" N	89° 32' 45.719" E
9	26° 26' 51.337" N	89° 32' 45.331" E
10	26° 26' 53.459" N	89° 32' 44.829" E
11	26° 26' 54.321" N	89° 32' 44.625" E
12	26° 26' 54.681" N	89° 32' 44.540" E
13	26° 26' 55.890" N	89° 32' 44.254" E
14	26° 26' 58.141" N	89° 32' 43.704" E
15	26° 26' 59.894" N	89° 32' 43.268" E
16	26° 27' 0.762" N	89° 32' 43.497" E
17	26° 27' 1.646" N	89° 32' 42.757" E
18	26° 27' 1.734" N	89° 32' 42.731" E
19	26° 27' 3.084" N	89° 32' 42.314" E
20	26° 27' 3.401" N	89° 32' 42.173" E
21	26° 27' 3.594" N	89° 32' 42.088" E
22	26° 27' 2.992" N	89° 32' 45.685" E
23	26° 27' 1.597" N	89° 32' 46.800" E
24	26° 26' 58.891" N	89° 32' 48.192" E
25	26° 26' 54.962" N	89° 32' 48.717" E

LEGEND

- COORDINATE
- SAFTY BARRIER
- POTENTIAL BLOCK
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD2	ALIPURDUAR 2
RIVER	KJ	KALJANI RIVER

0 0.075 0.15 0.3 0.45 0.6

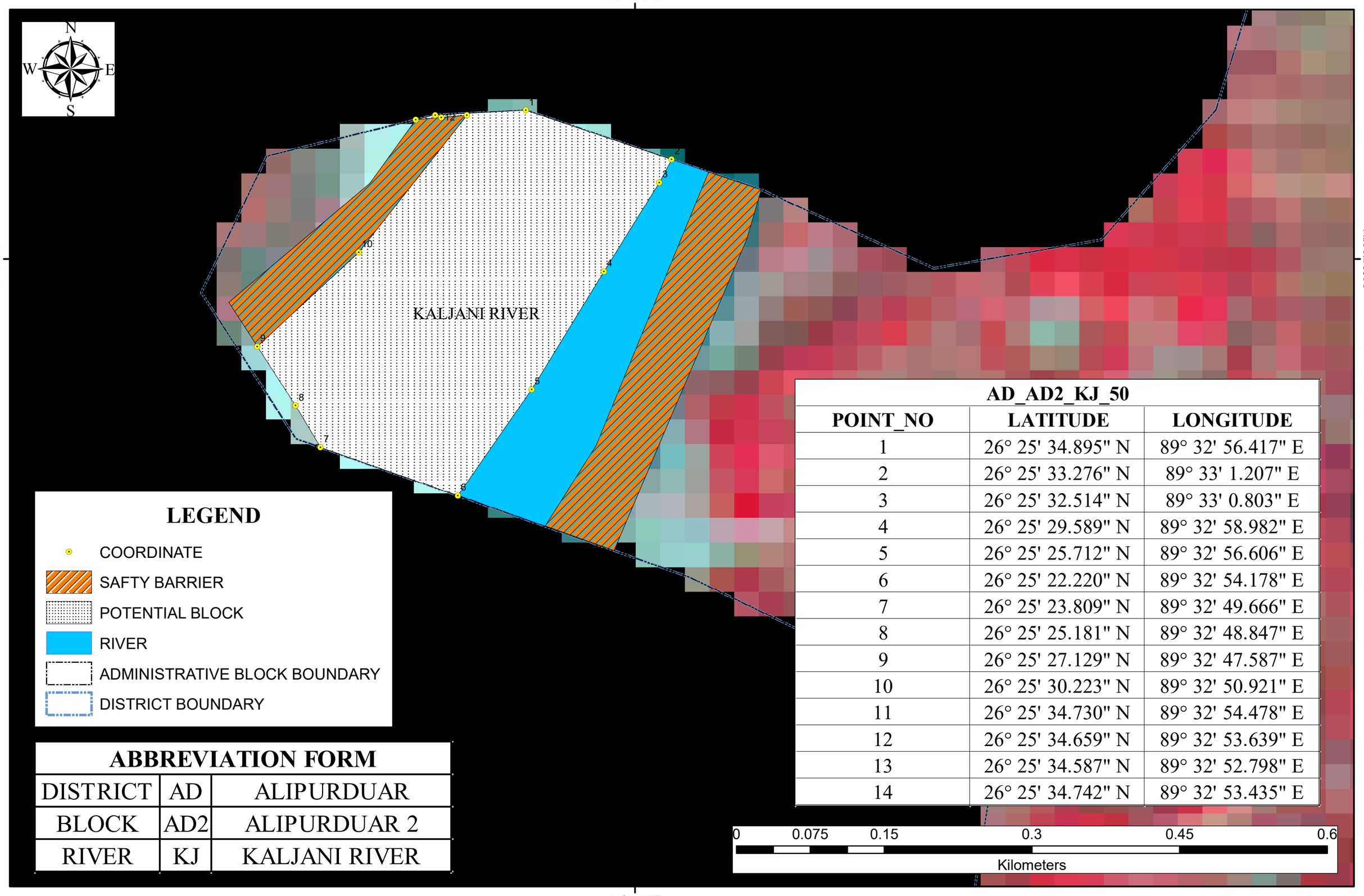
Kilometers

89°33'0"E

POTENTIAL BLOCK AD_AD2_KJ_50 OF KALJANI RIVER

89°33'0"E

26°25'30"N



LEGEND

- COORDINATE
- SAFTY BARRIER
- POTENTIAL BLOCK
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

AD_AD2_KJ_50		
POINT_NO	LATITUDE	LONGITUDE
1	26° 25' 34.895" N	89° 32' 56.417" E
2	26° 25' 33.276" N	89° 33' 1.207" E
3	26° 25' 32.514" N	89° 33' 0.803" E
4	26° 25' 29.589" N	89° 32' 58.982" E
5	26° 25' 25.712" N	89° 32' 56.606" E
6	26° 25' 22.220" N	89° 32' 54.178" E
7	26° 25' 23.809" N	89° 32' 49.666" E
8	26° 25' 25.181" N	89° 32' 48.847" E
9	26° 25' 27.129" N	89° 32' 47.587" E
10	26° 25' 30.223" N	89° 32' 50.921" E
11	26° 25' 34.730" N	89° 32' 54.478" E
12	26° 25' 34.659" N	89° 32' 53.639" E
13	26° 25' 34.587" N	89° 32' 52.798" E
14	26° 25' 34.742" N	89° 32' 53.435" E

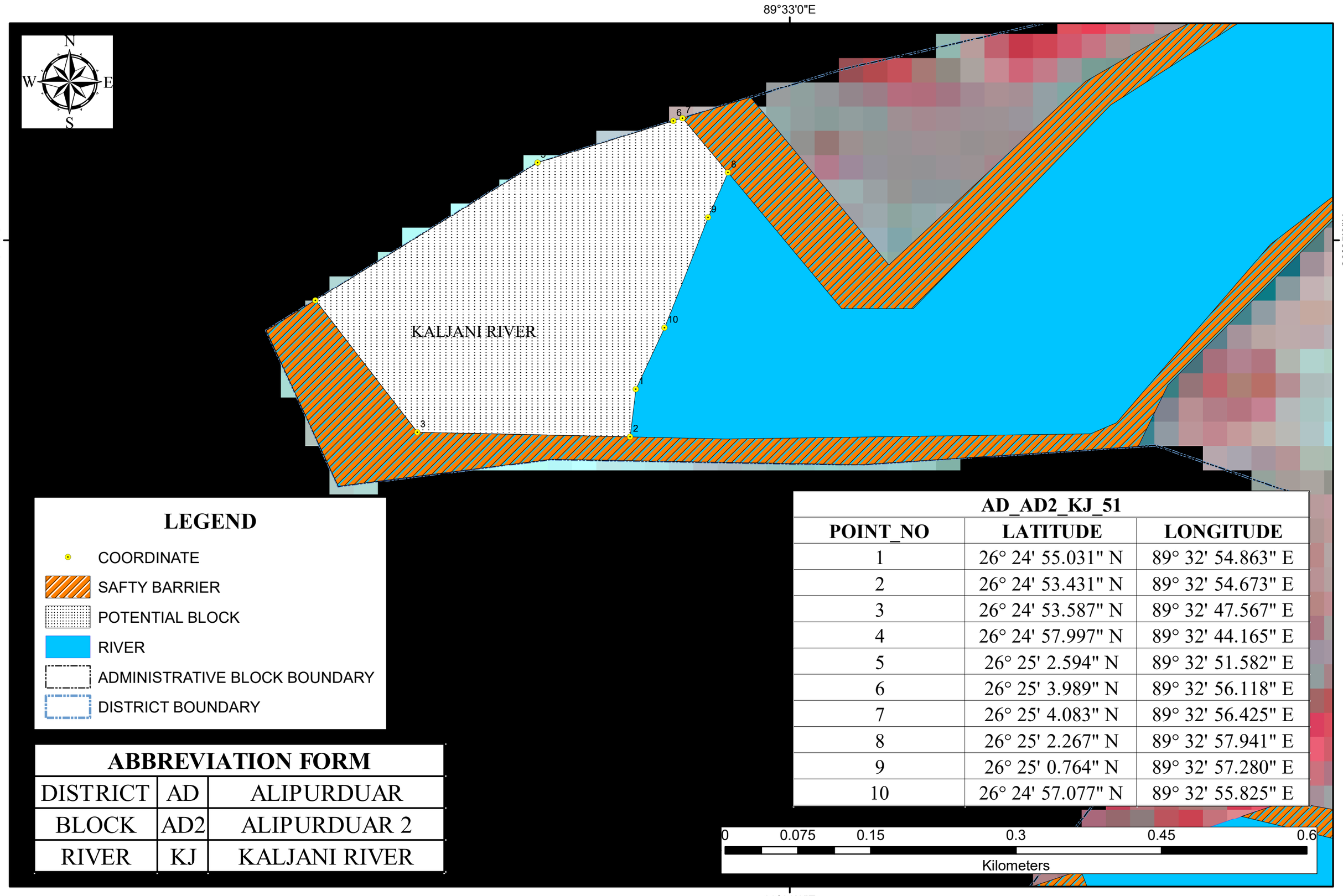
ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD2	ALIPURDUAR 2
RIVER	KJ	KALJANI RIVER

0 0.075 0.15 0.3 0.45 0.6

Kilometers

89°33'0"E

POTENTIAL BLOCK AD_AD2_KJ_51 OF KALJANI RIVER



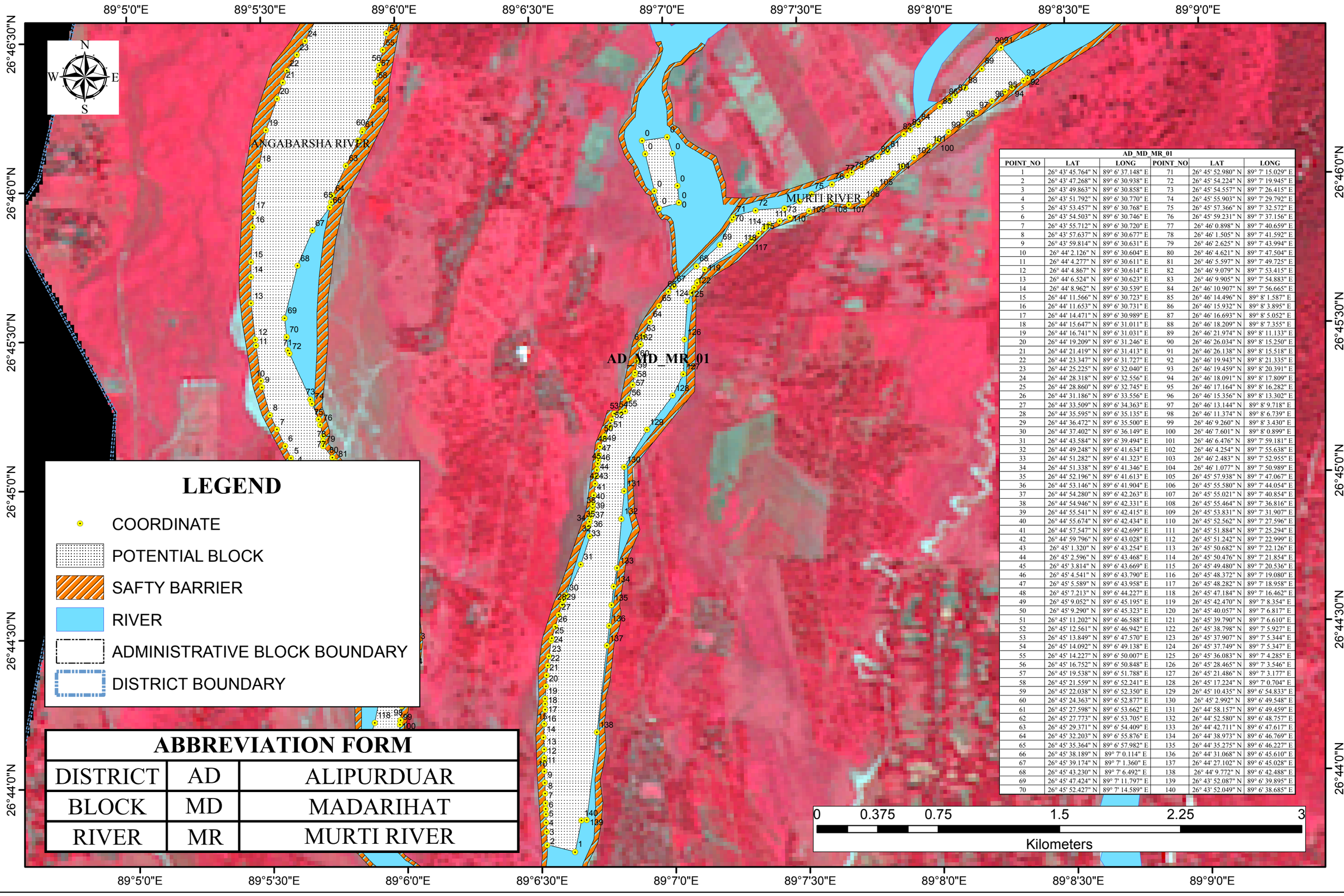
LEGEND

- COORDINATE
- SAFTY BARRIER
- POTENTIAL BLOCK
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD2	ALIPURDUAR 2
RIVER	KJ	KALJANI RIVER

AD_AD2_KJ_51		
POINT_NO	LATITUDE	LONGITUDE
1	26° 24' 55.031" N	89° 32' 54.863" E
2	26° 24' 53.431" N	89° 32' 54.673" E
3	26° 24' 53.587" N	89° 32' 47.567" E
4	26° 24' 57.997" N	89° 32' 44.165" E
5	26° 25' 2.594" N	89° 32' 51.582" E
6	26° 25' 3.989" N	89° 32' 56.118" E
7	26° 25' 4.083" N	89° 32' 56.425" E
8	26° 25' 2.267" N	89° 32' 57.941" E
9	26° 25' 0.764" N	89° 32' 57.280" E
10	26° 24' 57.077" N	89° 32' 55.825" E

POTENTIAL BLOCK AD_MD_MR_01 OF MURTI RIVER



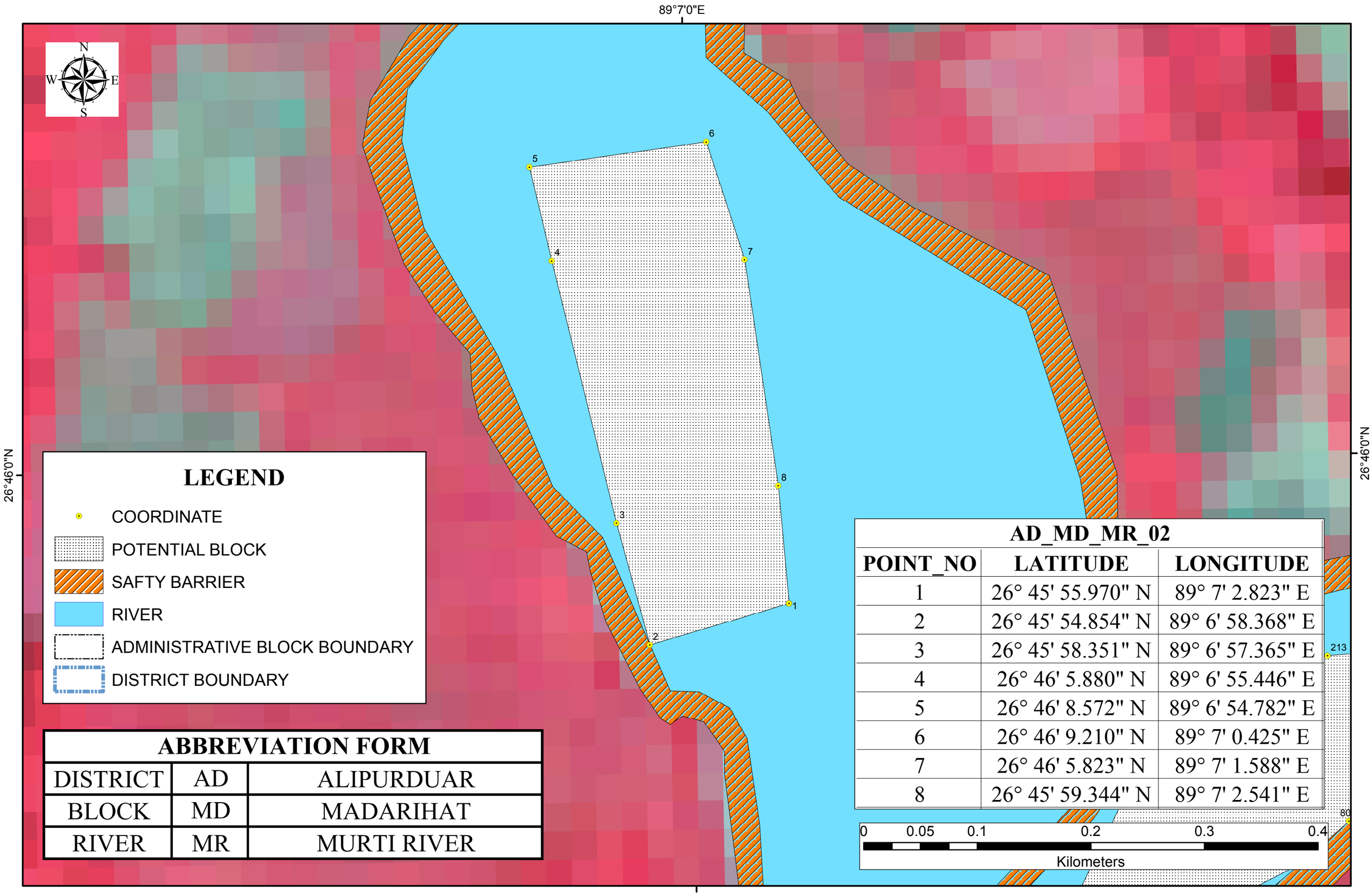
LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	MD	MADARIHAT
RIVER	MR	MURTI RIVER

AD_MD_MR_01					
POINT_NO	LAT	LONG	POINT_NO	LAT	LONG
1	26° 43' 45.764" N	89° 6' 37.148" E	71	26° 45' 52.980" N	89° 7' 15.029" E
2	26° 43' 47.268" N	89° 6' 30.938" E	72	26° 45' 54.224" N	89° 7' 19.945" E
3	26° 43' 49.863" N	89° 6' 30.858" E	73	26° 45' 54.557" N	89° 7' 26.415" E
4	26° 43' 51.792" N	89° 6' 30.770" E	74	26° 45' 55.903" N	89° 7' 29.792" E
5	26° 43' 53.457" N	89° 6' 30.768" E	75	26° 45' 57.366" N	89° 7' 32.572" E
6	26° 43' 54.503" N	89° 6' 30.746" E	76	26° 45' 59.231" N	89° 7' 37.156" E
7	26° 43' 55.712" N	89° 6' 30.720" E	77	26° 46' 0.898" N	89° 7' 40.659" E
8	26° 43' 57.637" N	89° 6' 30.677" E	78	26° 46' 1.505" N	89° 7' 41.592" E
9	26° 43' 59.814" N	89° 6' 30.631" E	79	26° 46' 2.625" N	89° 7' 43.994" E
10	26° 44' 2.126" N	89° 6' 30.604" E	80	26° 46' 4.621" N	89° 7' 47.504" E
11	26° 44' 4.277" N	89° 6' 30.611" E	81	26° 46' 5.597" N	89° 7' 49.725" E
12	26° 44' 4.867" N	89° 6' 30.614" E	82	26° 46' 9.079" N	89° 7' 53.415" E
13	26° 44' 6.524" N	89° 6' 30.623" E	83	26° 46' 9.905" N	89° 7' 54.883" E
14	26° 44' 8.962" N	89° 6' 30.539" E	84	26° 46' 10.907" N	89° 7' 56.665" E
15	26° 44' 11.566" N	89° 6' 30.723" E	85	26° 46' 14.496" N	89° 8' 1.587" E
16	26° 44' 11.653" N	89° 6' 30.731" E	86	26° 46' 15.932" N	89° 8' 3.895" E
17	26° 44' 14.471" N	89° 6' 30.989" E	87	26° 46' 16.693" N	89° 8' 5.052" E
18	26° 44' 15.647" N	89° 6' 31.011" E	88	26° 46' 18.209" N	89° 8' 7.355" E
19	26° 44' 16.741" N	89° 6' 31.031" E	89	26° 46' 21.974" N	89° 8' 11.133" E
20	26° 44' 19.209" N	89° 6' 31.246" E	90	26° 46' 26.034" N	89° 8' 15.250" E
21	26° 44' 21.419" N	89° 6' 31.413" E	91	26° 46' 26.138" N	89° 8' 15.518" E
22	26° 44' 23.347" N	89° 6' 31.727" E	92	26° 46' 19.943" N	89° 8' 21.335" E
23	26° 44' 25.225" N	89° 6' 32.040" E	93	26° 46' 19.459" N	89° 8' 20.391" E
24	26° 44' 28.318" N	89° 6' 32.556" E	94	26° 46' 18.091" N	89° 8' 17.809" E
25	26° 44' 28.860" N	89° 6' 32.745" E	95	26° 46' 17.164" N	89° 8' 16.282" E
26	26° 44' 31.186" N	89° 6' 33.556" E	96	26° 46' 15.356" N	89° 8' 13.302" E
27	26° 44' 33.509" N	89° 6' 34.363" E	97	26° 46' 13.144" N	89° 8' 9.718" E
28	26° 44' 35.595" N	89° 6' 35.135" E	98	26° 46' 11.374" N	89° 8' 6.739" E
29	26° 44' 36.472" N	89° 6' 35.500" E	99	26° 46' 9.260" N	89° 8' 3.430" E
30	26° 44' 37.402" N	89° 6' 36.149" E	100	26° 46' 7.601" N	89° 8' 0.899" E
31	26° 44' 43.584" N	89° 6' 39.494" E	101	26° 46' 6.476" N	89° 7' 59.181" E
32	26° 44' 49.248" N	89° 6' 41.634" E	102	26° 46' 4.254" N	89° 7' 55.638" E
33	26° 44' 51.282" N	89° 6' 41.323" E	103	26° 46' 2.483" N	89° 7' 52.955" E
34	26° 44' 51.338" N	89° 6' 41.346" E	104	26° 46' 1.077" N	89° 7' 50.989" E
35	26° 44' 52.196" N	89° 6' 41.613" E	105	26° 45' 57.938" N	89° 7' 47.067" E
36	26° 44' 53.146" N	89° 6' 41.904" E	106	26° 45' 55.580" N	89° 7' 44.054" E
37	26° 44' 54.280" N	89° 6' 42.263" E	107	26° 45' 55.021" N	89° 7' 40.854" E
38	26° 44' 54.946" N	89° 6' 42.331" E	108	26° 45' 55.464" N	89° 7' 36.816" E
39	26° 44' 55.541" N	89° 6' 42.415" E	109	26° 45' 53.831" N	89° 7' 31.907" E
40	26° 44' 55.674" N	89° 6' 42.434" E	110	26° 45' 52.562" N	89° 7' 27.596" E
41	26° 44' 57.547" N	89° 6' 42.699" E	111	26° 45' 51.884" N	89° 7' 25.294" E
42	26° 44' 59.796" N	89° 6' 43.028" E	112	26° 45' 51.242" N	89° 7' 22.999" E
43	26° 45' 1.320" N	89° 6' 43.254" E	113	26° 45' 50.682" N	89° 7' 22.126" E
44	26° 45' 2.596" N	89° 6' 43.468" E	114	26° 45' 50.476" N	89° 7' 21.854" E
45	26° 45' 3.814" N	89° 6' 43.669" E	115	26° 45' 49.480" N	89° 7' 20.536" E
46	26° 45' 4.541" N	89° 6' 43.790" E	116	26° 45' 48.372" N	89° 7' 19.080" E
47	26° 45' 5.589" N	89° 6' 43.958" E	117	26° 45' 48.282" N	89° 7' 18.958" E
48	26° 45' 7.213" N	89° 6' 44.227" E	118	26° 45' 47.184" N	89° 7' 16.462" E
49	26° 45' 9.052" N	89° 6' 45.195" E	119	26° 45' 42.470" N	89° 7' 8.354" E
50	26° 45' 9.290" N	89° 6' 45.323" E	120	26° 45' 40.057" N	89° 7' 6.817" E
51	26° 45' 11.202" N	89° 6' 46.588" E	121	26° 45' 39.790" N	89° 7' 6.610" E
52	26° 45' 12.561" N	89° 6' 46.942" E	122	26° 45' 38.798" N	89° 7' 5.927" E
53	26° 45' 13.849" N	89° 6' 47.570" E	123	26° 45' 37.907" N	89° 7' 5.344" E
54	26° 45' 14.092" N	89° 6' 49.138" E	124	26° 45' 37.749" N	89° 7' 5.347" E
55	26° 45' 14.227" N	89° 6' 50.007" E	125	26° 45' 36.083" N	89° 7' 4.285" E
56	26° 45' 16.752" N	89° 6' 50.848" E	126	26° 45' 28.465" N	89° 7' 3.546" E
57	26° 45' 19.538" N	89° 6' 51.788" E	127	26° 45' 21.486" N	89° 7' 3.177" E
58	26° 45' 21.559" N	89° 6' 52.241" E	128	26° 45' 17.224" N	89° 7' 0.704" E
59	26° 45' 22.038" N	89° 6' 52.350" E	129	26° 45' 10.435" N	89° 6' 54.833" E
60	26° 45' 24.363" N	89° 6' 52.877" E	130	26° 45' 2.992" N	89° 6' 49.548" E
61	26° 45' 27.598" N	89° 6' 53.662" E	131	26° 44' 58.157" N	89° 6' 49.459" E
62	26° 45' 27.773" N	89° 6' 53.705" E	132	26° 44' 52.580" N	89° 6' 48.757" E
63	26° 45' 29.371" N	89° 6' 54.409" E	133	26° 44' 42.711" N	89° 6' 47.617" E
64	26° 45' 32.203" N	89° 6' 55.876" E	134	26° 44' 38.973" N	89° 6' 46.769" E
65	26° 45' 35.364" N	89° 6' 57.982" E	135	26° 44' 35.275" N	89° 6' 46.227" E
66	26° 45' 38.189" N	89° 7' 0.114" E	136	26° 44' 31.068" N	89° 6' 45.610" E
67	26° 45' 39.174" N	89° 7' 1.360" E	137	26° 44' 27.102" N	89° 6' 45.028" E
68	26° 45' 43.230" N	89° 7' 6.492" E	138	26° 44' 9.772" N	89° 6' 42.488" E
69	26° 45' 47.424" N	89° 7' 11.797" E	139	26° 43' 52.087" N	89° 6' 39.895" E
70	26° 45' 52.427" N	89° 7' 14.589" E	140	26° 43' 52.049" N	89° 6' 38.685" E

POTENTIAL BLOCK AD_MD_MR_02 OF MURTI RIVER



LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	MD	MADARIHAT
RIVER	MR	MURTI RIVER

AD_MD_MR_02		
POINT_NO	LATITUDE	LONGITUDE
1	26° 45' 55.970" N	89° 7' 2.823" E
2	26° 45' 54.854" N	89° 6' 58.368" E
3	26° 45' 58.351" N	89° 6' 57.365" E
4	26° 46' 5.880" N	89° 6' 55.446" E
5	26° 46' 8.572" N	89° 6' 54.782" E
6	26° 46' 9.210" N	89° 7' 0.425" E
7	26° 46' 5.823" N	89° 7' 1.588" E
8	26° 45' 59.344" N	89° 7' 2.541" E

POTENTIAL BLOCK AD_MD_PG_01 OF PAGLI RIVER

AD_MD_PG_01					
POINT_NO	LATITUDE	LONGITUDE	POINT_NO	LATITUDE	LONGITUDE
1	26° 44' 16.341" N	89° 10' 7.791" E	46	26° 45' 31.799" N	89° 10' 16.407" E
2	26° 44' 16.894" N	89° 10' 7.808" E	47	26° 45' 30.542" N	89° 10' 16.103" E
3	26° 44' 19.990" N	89° 10' 8.048" E	48	26° 45' 28.865" N	89° 10' 15.700" E
4	26° 44' 22.296" N	89° 10' 8.221" E	49	26° 45' 27.785" N	89° 10' 15.441" E
5	26° 44' 24.347" N	89° 10' 8.391" E	50	26° 45' 25.223" N	89° 10' 15.436" E
6	26° 44' 25.669" N	89° 10' 7.658" E	51	26° 45' 23.680" N	89° 10' 15.368" E
7	26° 44' 27.508" N	89° 10' 6.617" E	52	26° 45' 21.658" N	89° 10' 15.499" E
8	26° 44' 28.699" N	89° 10' 6.508" E	53	26° 45' 19.139" N	89° 10' 15.657" E
9	26° 44' 31.133" N	89° 10' 6.254" E	54	26° 45' 17.579" N	89° 10' 15.415" E
10	26° 44' 33.453" N	89° 10' 5.923" E	55	26° 45' 16.583" N	89° 10' 15.381" E
11	26° 44' 35.322" N	89° 10' 5.725" E	56	26° 45' 15.310" N	89° 10' 15.523" E
12	26° 44' 37.108" N	89° 10' 5.861" E	57	26° 45' 13.144" N	89° 10' 15.402" E
13	26° 44' 39.333" N	89° 10' 6.032" E	58	26° 45' 11.098" N	89° 10' 15.703" E
14	26° 44' 40.932" N	89° 10' 6.703" E	59	26° 45' 8.623" N	89° 10' 16.233" E
15	26° 44' 42.883" N	89° 10' 7.524" E	60	26° 45' 7.116" N	89° 10' 16.384" E
16	26° 44' 44.362" N	89° 10' 8.145" E	61	26° 45' 5.238" N	89° 10' 16.573" E
17	26° 44' 46.294" N	89° 10' 8.786" E	62	26° 45' 2.786" N	89° 10' 16.742" E
18	26° 44' 48.168" N	89° 10' 9.412" E	63	26° 45' 1.065" N	89° 10' 15.979" E
19	26° 44' 48.795" N	89° 10' 9.441" E	64	26° 44' 58.891" N	89° 10' 15.217" E
20	26° 44' 50.086" N	89° 10' 9.502" E	65	26° 44' 58.488" N	89° 10' 15.076" E
21	26° 44' 51.813" N	89° 10' 9.584" E	66	26° 44' 56.589" N	89° 10' 14.412" E
22	26° 44' 53.705" N	89° 10' 9.673" E	67	26° 44' 55.645" N	89° 10' 14.055" E
23	26° 44' 55.440" N	89° 10' 8.946" E	68	26° 44' 54.437" N	89° 10' 13.835" E
24	26° 44' 57.127" N	89° 10' 8.218" E	69	26° 44' 52.898" N	89° 10' 13.610" E
25	26° 44' 57.678" N	89° 10' 8.277" E	70	26° 44' 51.071" N	89° 10' 13.201" E
26	26° 45' 0.163" N	89° 10' 8.433" E	71	26° 44' 49.404" N	89° 10' 12.828" E
27	26° 45' 2.498" N	89° 10' 8.581" E	72	26° 44' 47.553" N	89° 10' 12.414" E
28	26° 45' 4.055" N	89° 10' 9.699" E	73	26° 44' 45.829" N	89° 10' 11.954" E
29	26° 45' 5.716" N	89° 10' 10.685" E	74	26° 44' 43.696" N	89° 10' 11.390" E
30	26° 45' 8.479" N	89° 10' 10.959" E	75	26° 44' 42.079" N	89° 10' 11.058" E
31	26° 45' 8.715" N	89° 10' 10.980" E	76	26° 44' 40.195" N	89° 10' 10.721" E
32	26° 45' 10.974" N	89° 10' 11.183" E	77	26° 44' 38.602" N	89° 10' 10.439" E
33	26° 45' 13.293" N	89° 10' 11.395" E	78	26° 44' 36.632" N	89° 10' 10.189" E
34	26° 45' 15.496" N	89° 10' 11.636" E	79	26° 44' 35.256" N	89° 10' 10.017" E
35	26° 45' 15.903" N	89° 10' 11.630" E	80	26° 44' 34.474" N	89° 10' 10.308" E
36	26° 45' 17.267" N	89° 10' 11.611" E	81	26° 44' 33.592" N	89° 10' 10.637" E
37	26° 45' 17.772" N	89° 10' 10.253" E	82	26° 44' 31.351" N	89° 10' 11.493" E
38	26° 45' 19.278" N	89° 10' 10.158" E	83	26° 44' 29.699" N	89° 10' 11.803" E
39	26° 45' 21.840" N	89° 10' 9.913" E	84	26° 44' 27.668" N	89° 10' 11.765" E
40	26° 45' 24.633" N	89° 10' 9.640" E	85	26° 44' 25.817" N	89° 10' 11.974" E
41	26° 45' 26.829" N	89° 10' 10.607" E	86	26° 44' 25.803" N	89° 10' 11.975" E
42	26° 45' 29.098" N	89° 10' 11.529" E	87	26° 44' 24.289" N	89° 10' 12.131" E
43	26° 45' 31.380" N	89° 10' 12.538" E	88	26° 44' 22.480" N	89° 10' 12.175" E
44	26° 45' 31.898" N	89° 10' 12.768" E	89	26° 44' 19.752" N	89° 10' 12.289" E
45	26° 45' 33.079" N	89° 10' 13.293" E	90	26° 44' 16.672" N	89° 10' 12.446" E
			91	26° 44' 16.250" N	89° 10' 12.482" E

PAGLI RIVER

LEGEND

- PG_COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	MD	MADARIHAT
RIVER	PG	PAGLI RIVER

0 0.175 0.35 0.7 1.05 1.4

Kilometers

POTENTIAL BLOCK AD_MD_PG_01A OF PAGLI RIVER

AD_MD_PG_01A		
POINT_NO	LATITUDE	LONGITUDE
1	26° 43' 13.485" N	89° 9' 51.752" E
2	26° 43' 13.853" N	89° 9' 52.458" E
3	26° 43' 3.732" N	89° 9' 53.262" E
4	26° 42' 57.149" N	89° 9' 49.729" E
5	26° 42' 51.360" N	89° 9' 48.280" E
6	26° 42' 47.996" N	89° 9' 47.238" E
7	26° 42' 44.379" N	89° 9' 46.118" E
8	26° 42' 41.221" N	89° 9' 43.493" E
9	26° 42' 42.333" N	89° 9' 42.710" E
10	26° 42' 46.634" N	89° 9' 45.024" E
11	26° 42' 48.643" N	89° 9' 46.010" E
12	26° 42' 56.145" N	89° 9' 47.889" E
13	26° 43' 0.913" N	89° 9' 49.788" E
14	26° 43' 4.946" N	89° 9' 50.812" E
15	26° 43' 12.013" N	89° 9' 51.023" E
16	26° 43' 13.178" N	89° 9' 51.166" E

89°9'30"E 89°9'45"E 89°10'0"E 89°10'15"E

26°43'15"N 26°43'0"N 26°42'45"N

PAGLI RIVER

SUKNA RIVER

N W E S

LEGEND

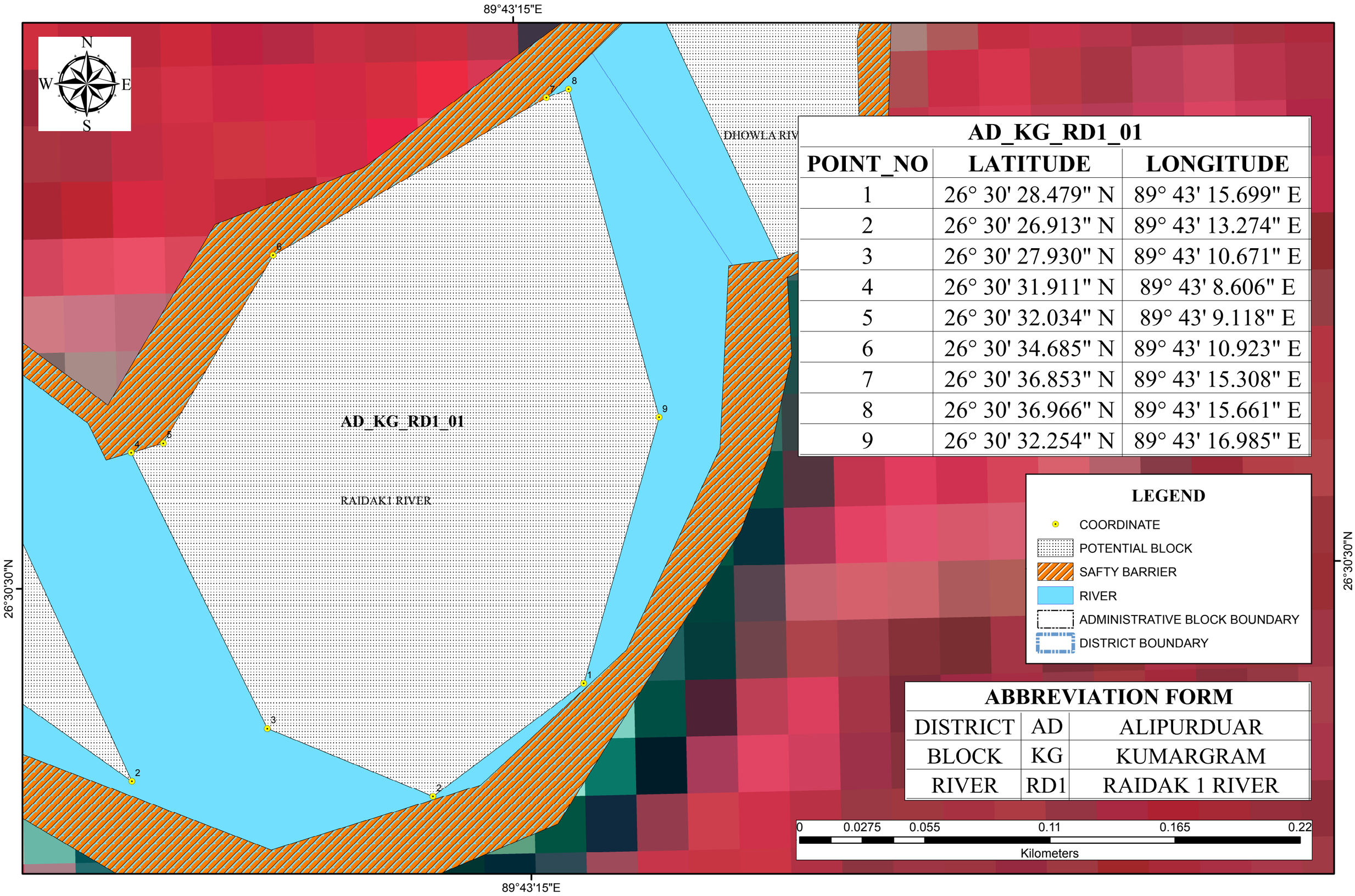
- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	MD	MADARIHAT
RIVER	PG	PAGLI RIVER

0 0.075 0.15 0.3 0.45 0.6

Kilometers

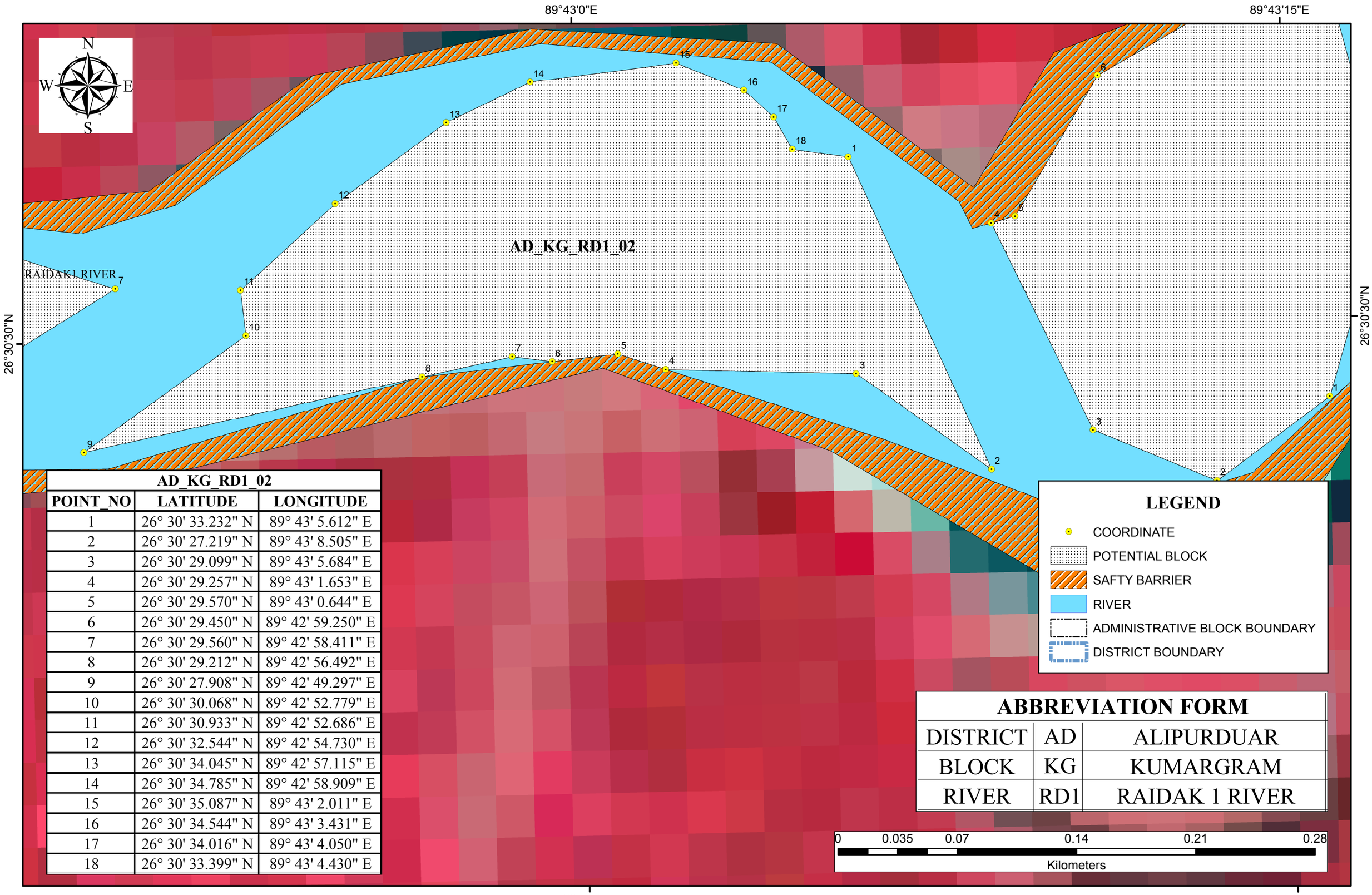
POTENTIAL BLOCK AD_KG_RD1_01 OF RAIDAK 1 RIVER



AD_KG_RD1_01		
POINT_NO	LATITUDE	LONGITUDE
1	26° 30' 28.479" N	89° 43' 15.699" E
2	26° 30' 26.913" N	89° 43' 13.274" E
3	26° 30' 27.930" N	89° 43' 10.671" E
4	26° 30' 31.911" N	89° 43' 8.606" E
5	26° 30' 32.034" N	89° 43' 9.118" E
6	26° 30' 34.685" N	89° 43' 10.923" E
7	26° 30' 36.853" N	89° 43' 15.308" E
8	26° 30' 36.966" N	89° 43' 15.661" E
9	26° 30' 32.254" N	89° 43' 16.985" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD1	RAIDAK 1 RIVER

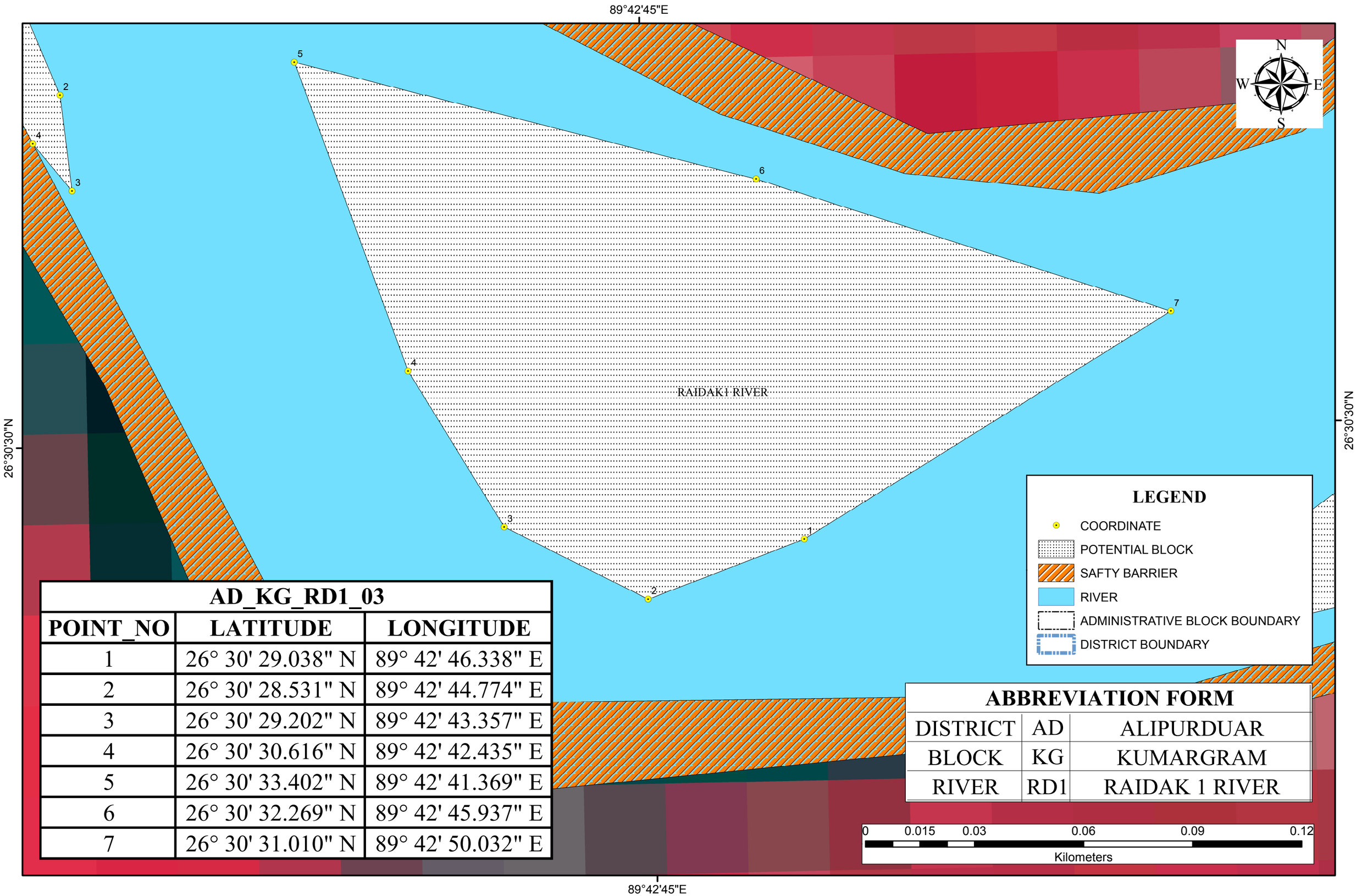
POTENTIAL BLOCK AD_KG_RD1_02 OF RAIDAK 1 RIVER



AD_KG_RD1_02		
POINT_NO	LATITUDE	LONGITUDE
1	26° 30' 33.232" N	89° 43' 5.612" E
2	26° 30' 27.219" N	89° 43' 8.505" E
3	26° 30' 29.099" N	89° 43' 5.684" E
4	26° 30' 29.257" N	89° 43' 1.653" E
5	26° 30' 29.570" N	89° 43' 0.644" E
6	26° 30' 29.450" N	89° 42' 59.250" E
7	26° 30' 29.560" N	89° 42' 58.411" E
8	26° 30' 29.212" N	89° 42' 56.492" E
9	26° 30' 27.908" N	89° 42' 49.297" E
10	26° 30' 30.068" N	89° 42' 52.779" E
11	26° 30' 30.933" N	89° 42' 52.686" E
12	26° 30' 32.544" N	89° 42' 54.730" E
13	26° 30' 34.045" N	89° 42' 57.115" E
14	26° 30' 34.785" N	89° 42' 58.909" E
15	26° 30' 35.087" N	89° 43' 2.011" E
16	26° 30' 34.544" N	89° 43' 3.431" E
17	26° 30' 34.016" N	89° 43' 4.050" E
18	26° 30' 33.399" N	89° 43' 4.430" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD1	RAIDAK 1 RIVER

POTENTIAL BLOCK AD_KG_RD1_03 OF RAIDAK 1 RIVER



AD_KG_RD1_03		
POINT_NO	LATITUDE	LONGITUDE
1	26° 30' 29.038" N	89° 42' 46.338" E
2	26° 30' 28.531" N	89° 42' 44.774" E
3	26° 30' 29.202" N	89° 42' 43.357" E
4	26° 30' 30.616" N	89° 42' 42.435" E
5	26° 30' 33.402" N	89° 42' 41.369" E
6	26° 30' 32.269" N	89° 42' 45.937" E
7	26° 30' 31.010" N	89° 42' 50.032" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD1	RAIDAK 1 RIVER

POTENTIAL BLOCK AD_KG_RD1_04 OF RAIDAK 1 RIVER

89°42'15"E

89°42'30"E

26°30'30"N

AD_KG_RD1_04		
POINT_NO	LATITUDE	LONGITUDE
1	26° 30' 37.220" N	89° 42' 37.225" E
2	26° 30' 33.152" N	89° 42' 39.032" E
3	26° 30' 32.291" N	89° 42' 39.131" E
4	26° 30' 32.721" N	89° 42' 38.752" E
5	26° 30' 35.647" N	89° 42' 37.120" E
6	26° 30' 37.123" N	89° 42' 35.172" E
7	26° 30' 37.021" N	89° 42' 32.638" E
8	26° 30' 34.773" N	89° 42' 28.836" E
9	26° 30' 30.796" N	89° 42' 25.543" E
10	26° 30' 25.823" N	89° 42' 24.924" E
11	26° 30' 24.587" N	89° 42' 24.394" E
12	26° 30' 21.202" N	89° 42' 24.919" E
13	26° 30' 24.410" N	89° 42' 22.409" E
14	26° 30' 31.441" N	89° 42' 21.677" E
15	26° 30' 34.299" N	89° 42' 23.894" E
16	26° 30' 37.667" N	89° 42' 27.555" E
17	26° 30' 39.910" N	89° 42' 33.936" E

RAIDAK1 RIVER

N

W E

S

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD1	RAIDAK 1 RIVER

0 0.045 0.09 0.18 0.27 0.36

Kilometers

POTENTIAL BLOCK AD_KG_RD2_01 OF RAIDAK2 RIVER

89°46'15"E 89°46'30"E 89°46'45"E 89°47'0"E 89°47'15"E

26°42'0"N

26°41'45"N

AD_KG_RD2_01

RAIDAK2 RIVER

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.1 0.2 0.4 0.6 0.8
Kilometers

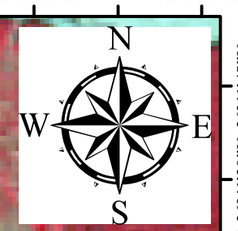
ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_01

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 42' 5.061" N	89° 46' 33.394" E	16	26° 41' 51.770" N	89° 46' 26.949" E
2	26° 41' 57.907" N	89° 46' 42.399" E	17	26° 41' 53.333" N	89° 46' 25.736" E
3	26° 41' 52.616" N	89° 46' 48.495" E	18	26° 41' 55.552" N	89° 46' 23.683" E
4	26° 41' 50.048" N	89° 46' 51.454" E	19	26° 41' 56.992" N	89° 46' 22.214" E
5	26° 41' 45.810" N	89° 46' 55.944" E	20	26° 41' 57.812" N	89° 46' 22.606" E
6	26° 41' 44.667" N	89° 46' 55.817" E	21	26° 41' 59.428" N	89° 46' 20.788" E
7	26° 41' 44.722" N	89° 46' 55.565" E	22	26° 42' 1.287" N	89° 46' 18.581" E
8	26° 41' 39.533" N	89° 46' 50.030" E	23	26° 42' 1.094" N	89° 46' 18.030" E
9	26° 41' 41.285" N	89° 46' 48.351" E	24	26° 42' 2.420" N	89° 46' 16.678" E
10	26° 41' 48.151" N	89° 46' 40.002" E	25	26° 42' 4.611" N	89° 46' 15.774" E
11	26° 41' 51.237" N	89° 46' 34.565" E	26	26° 42' 4.740" N	89° 46' 16.343" E
12	26° 41' 49.900" N	89° 46' 33.416" E	27	26° 42' 5.710" N	89° 46' 20.606" E
13	26° 41' 49.523" N	89° 46' 31.570" E	28	26° 42' 7.470" N	89° 46' 25.569" E
14	26° 41' 51.922" N	89° 46' 28.817" E	29	26° 42' 8.735" N	89° 46' 29.135" E
15	26° 41' 51.518" N	89° 46' 27.831" E	30	26° 42' 6.415" N	89° 46' 31.824" E

POTENTIAL BLOCK AD_KG_RD2_02 OF RAIDAK2 RIVER



ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_02

DHOWLA RIVER

RAIDAK2 RIVER

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.5 1 2 3 4
Kilometers

89°43'45"E 89°44'15"E 89°44'45"E 89°45'15"E 89°45'45"E 89°46'15"E 89°46'45"E 89°47'15"E 89°47'45"E 89°48'15"E 89°48'45"E 89°49'15"E 89°49'45"E 89°50'15"E 89°50'45"E

26°42'0"N 26°41'45"N 26°41'30"N 26°41'15"N 26°41'0"N 26°40'45"N 26°40'30"N 26°40'15"N 26°40'0"N 26°39'45"N 26°39'30"N 26°39'15"N 26°39'0"N 26°38'45"N 26°38'30"N 26°38'15"N 26°38'0"N 26°37'45"N 26°37'30"N

89°44'0"E 89°44'30"E 89°45'0"E 89°45'30"E 89°46'0"E 89°46'30"E 89°47'0"E 89°47'30"E 89°48'0"E 89°48'30"E 89°49'0"E 89°49'30"E 89°50'0"E 89°50'30"E 89°51'0"E

AD_KG_RD2_02

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 40' 28.676" N	89° 47' 15.117" E	61	26° 38' 33.942" N	89° 47' 42.649" E	120	26° 38' 38.839" N	89° 47' 28.542" E	179	26° 41' 36.751" N	89° 46' 49.307" E	238	26° 41' 25.890" N	89° 46' 49.568" E
2	26° 40' 21.992" N	89° 47' 20.694" E	62	26° 38' 28.491" N	89° 47' 46.700" E	121	26° 38' 43.453" N	89° 47' 28.774" E	180	26° 41' 39.010" N	89° 46' 51.035" E	239	26° 41' 28.657" N	89° 46' 46.476" E
3	26° 40' 10.353" N	89° 47' 29.164" E	63	26° 38' 27.286" N	89° 47' 47.866" E	122	26° 38' 45.741" N	89° 47' 27.156" E	181	26° 41' 40.013" N	89° 46' 52.494" E	240	26° 41' 31.887" N	89° 46' 46.126" E
4	26° 40' 7.957" N	89° 47' 33.329" E	64	26° 38' 22.821" N	89° 47' 50.985" E	123	26° 38' 45.459" N	89° 47' 25.117" E	182	26° 41' 37.679" N	89° 46' 53.155" E	241	26° 41' 35.500" N	89° 46' 45.926" E
5	26° 40' 6.909" N	89° 47' 33.163" E	65	26° 38' 18.855" N	89° 47' 50.530" E	124	26° 38' 46.533" N	89° 47' 25.143" E	183	26° 41' 36.388" N	89° 46' 53.267" E	242	26° 41' 40.467" N	89° 46' 42.459" E
6	26° 40' 6.072" N	89° 47' 33.030" E	66	26° 38' 14.868" N	89° 47' 51.150" E	125	26° 38' 50.372" N	89° 47' 26.552" E	184	26° 41' 33.811" N	89° 46' 53.204" E	243	26° 41' 42.204" N	89° 46' 39.344" E
7	26° 40' 9.087" N	89° 47' 27.985" E	67	26° 38' 13.714" N	89° 47' 51.412" E	126	26° 38' 57.679" N	89° 47' 26.490" E	185	26° 41' 31.478" N	89° 46' 53.865" E	244	26° 41' 40.025" N	89° 46' 38.717" E
8	26° 40' 17.767" N	89° 47' 12.699" E	68	26° 38' 11.540" N	89° 47' 52.698" E	127	26° 39' 3.683" N	89° 47' 29.124" E	186	26° 41' 29.944" N	89° 46' 54.865" E	245	26° 41' 39.378" N	89° 46' 38.844" E
9	26° 40' 19.478" N	89° 47' 10.876" E	69	26° 38' 6.080" N	89° 47' 55.172" E	128	26° 39' 7.305" N	89° 47' 28.637" E	187	26° 41' 27.834" N	89° 46' 56.807" E	246	26° 41' 39.282" N	89° 46' 37.120" E
10	26° 40' 24.111" N	89° 47' 11.275" E	70	26° 38' 3.278" N	89° 47' 57.660" E	129	26° 39' 14.377" N	89° 47' 29.527" E	188	26° 41' 25.069" N	89° 46' 57.208" E	247	26° 41' 41.005" N	89° 46' 34.722" E
11	26° 40' 23.405" N	89° 47' 14.415" E	71	26° 37' 58.121" N	89° 48' 1.351" E	130	26° 39' 17.762" N	89° 47' 28.401" E	189	26° 41' 16.839" N	89° 47' 4.035" E	248	26° 41' 41.816" N	89° 46' 33.290" E
12	26° 40' 23.634" N	89° 47' 15.855" E	72	26° 37' 56.118" N	89° 48' 3.535" E	131	26° 39' 19.333" N	89° 47' 27.878" E	190	26° 41' 12.458" N	89° 47' 5.532" E	249	26° 41' 43.292" N	89° 46' 32.700" E
13	26° 40' 31.248" N	89° 47' 8.866" E	73	26° 37' 51.823" N	89° 48' 7.613" E	132	26° 39' 19.461" N	89° 47' 27.781" E	191	26° 41' 4.904" N	89° 47' 6.283" E	250	26° 41' 44.266" N	89° 46' 32.792" E
14	26° 40' 35.324" N	89° 47' 4.804" E	74	26° 37' 48.328" N	89° 48' 8.035" E	133	26° 39' 19.896" N	89° 47' 27.691" E	192	26° 41' 3.201" N	89° 47' 9.536" E	251	26° 41' 45.387" N	89° 46' 31.596" E
15	26° 40' 37.644" N	89° 47' 4.860" E	75	26° 37' 45.708" N	89° 48' 8.419" E	134	26° 39' 26.321" N	89° 47' 26.370" E	193	26° 41' 1.894" N	89° 47' 10.224" E	252	26° 41' 48.393" N	89° 46' 29.570" E
16	26° 40' 35.148" N	89° 47' 7.239" E	76	26° 37' 42.192" N	89° 48' 10.789" E	135	26° 39' 32.533" N	89° 47' 25.086" E	194	26° 41' 0.434" N	89° 47' 12.341" E	253	26° 41' 49.107" N	89° 46' 29.016" E
17	26° 40' 27.360" N	89° 47' 9.919" E	77	26° 37' 38.780" N	89° 48' 10.670" E	136	26° 39' 37.970" N	89° 47' 23.927" E	195	26° 41' 0.339" N	89° 47' 17.218" E	254	26° 41' 48.229" N	89° 46' 34.467" E
18	26° 40' 21.691" N	89° 47' 9.782" E	78	26° 37' 40.804" N	89° 48' 8.755" E	137	26° 39' 43.649" N	89° 47' 17.035" E	196	26° 41' 0.470" N	89° 47' 18.398" E	255	26° 41' 42.764" N	89° 46' 43.663" E
19	26° 40' 23.551" N	89° 47' 6.957" E	79	26° 37' 44.382" N	89° 48' 3.822" E	138	26° 39' 49.094" N	89° 47' 15.446" E	197	26° 41' 0.014" N	89° 47' 20.111" E			
20	26° 40' 24.868" N	89° 47' 5.554" E	80	26° 37' 45.426" N	89° 48' 0.892" E	139	26° 39' 51.719" N	89° 47' 13.070" E	198	26° 40' 58.830" N	89° 47' 22.405" E			
21	26° 40' 24.126" N	89° 47' 3.958" E	81	26° 37' 45.258" N	89° 47' 59.095" E	140	26° 39' 55.154" N	89° 47' 8.850" E	199	26° 40' 58.018" N	89° 47' 22.503" E			
22	26° 40' 22.053" N	89° 47' 4.481" E	82	26° 37' 46.120" N	89° 47' 57.204" E	141	26° 39' 53.801" N	89° 47' 5.517" E	200	26° 40' 58.796" N	89° 47' 21.389" E			
23	26° 40' 18.761" N	89° 47' 7.989" E	83	26° 37' 46.760" N	89° 47' 56.148" E	142	26° 39' 48.378" N	89° 47' 5.959" E	201	26° 40' 58.399" N	89° 47' 15.353" E			
24	26° 40' 16.523" N	89° 47' 10.373" E	84	26° 37' 47.396" N	89° 47' 55.246" E	143	26° 39' 44.975" N	89° 47' 8.602" E	202	26° 40' 59.133" N	89° 47' 10.778" E			
25	26° 40' 14.279" N	89° 47' 13.045" E	85	26° 37' 48.669" N	89° 47' 53.441" E	144	26° 39' 41.529" N	89° 47' 13.397" E	203	26° 41' 1.119" N	89° 47' 8.100" E			
26	26° 40' 10.999" N	89° 47' 15.979" E	86	26° 37' 51.176" N	89° 47' 51.819" E	145	26° 39' 38.579" N	89° 47' 12.607" E	204	26° 41' 3.097" N	89° 47' 8.217" E			
27	26° 40' 8.268" N	89° 47' 17.203" E	87	26° 37' 54.444" N	89° 47' 49.986" E	146	26° 39' 38.120" N	89° 47' 9.727" E	205	26° 41' 3.002" N	89° 47' 4.318" E			
28	26° 40' 3.111" N	89° 47' 17.221" E	88	26° 37' 58.203" N	89° 47' 47.630" E	147	26° 39' 39.880" N	89° 47' 5.465" E	206	26° 41' 1.886" N	89° 47' 4.053" E			
29	26° 39' 58.430" N	89° 47' 19.260" E	89	26° 38' 0.658" N	89° 47' 45.165" E	148	26° 39' 42.631" N	89° 47' 3.237" E	207	26° 40' 57.897" N	89° 47' 3.669" E			
30	26° 39' 57.629" N	89° 47' 20.675" E	90	26° 38' 1.995" N	89° 47' 43.591" E	149	26° 39' 46.404" N	89° 47' 1.463" E	208	26° 40' 55.466" N	89° 47' 2.749" E			
31	26° 39' 57.598" N	89° 47' 22.253" E	91	26° 38' 5.206" N	89° 47' 41.145" E	150	26° 39' 48.468" N	89° 47' 1.370" E	209	26° 40' 47.204" N	89° 47' 3.361" E			
32	26° 40' 0.959" N	89° 47' 21.761" E	92	26° 38' 8.529" N	89° 47' 41.043" E	151	26° 39' 52.479" N	89° 47' 0.606" E	210	26° 40' 35.161" N	89° 47' 17.083" E			
33	26° 40' 5.760" N	89° 47' 20.156" E	93	26° 38' 11.203" N	89° 47' 40.534" E	152	26° 39' 55.779" N	89° 46' 56.669" E	211	26° 40' 31.634" N	89° 47' 19.437" E			
34	26° 40' 11.097" N	89° 47' 17.559" E	94	26° 38' 13.002" N	89° 47' 40.198" E	153	26° 39' 58.228" N	89° 46' 56.728" E	212	26° 40' 30.303" N	89° 47' 21.557" E			
35	26° 40' 15.951" N	89° 47' 13.229" E	95	26° 38' 13.925" N	89° 47' 38.497" E	154	26° 40' 1.191" N	89° 46' 56.800" E	213	26° 40' 28.944" N	89° 47' 25.111" E			
36	26° 40' 10.612" N	89° 47' 22.569" E	96	26° 38' 17.276" N	89° 47' 36.510" E	155	26° 40' 5.303" N	89° 46' 57.474" E	214	26° 40' 27.989" N	89° 47' 27.814" E			
37	26° 40' 7.689" N	89° 47' 26.946" E	97	26° 38' 18.546" N	89° 47' 38.927" E	156	26° 40' 10.827" N	89° 46' 58.469" E	215	26° 40' 28.397" N	89° 47' 28.160" E			
38	26° 40' 2.642" N	89° 47' 27.971" E	98	26° 38' 22.797" N	89° 47' 35.803" E	157	26° 40' 16.804" N	89° 46' 56.031" E	216	26° 40' 26.570" N	89° 47' 30.007" E			
39	26° 40' 1.157" N	89° 47' 31.379" E	99	26° 38' 27.924" N	89° 47' 31.863" E	158	26° 40' 20.331" N	89° 46' 53.678" E	217	26° 40' 25.056" N	89° 47' 31.282" E			
40	26° 40' 1.349" N	89° 47' 31.754" E	100	26° 38' 29.493" N	89° 47' 30.874" E	159	26° 40' 23.174" N	89° 46' 53.316" E	218	26° 40' 24.007" N	89° 47' 31.256" E			
41	26° 39' 57.524" N	89° 47' 30.654" E	101	26° 38' 27.619" N	89° 47' 29.677" E	160	26° 40' 28.586" N	89° 46' 53.448" E	219	26° 40' 21.480" N	89° 47' 34.036" E			
42	26° 39' 59.833" N	89° 47' 26.612" E	102	26° 38' 29.713" N	89° 47' 26.978" E	161	26° 40' 31.132" N	89° 46' 55.088" E	220	26° 40' 18.685" N	89° 47' 35.054" E			
43	26° 39' 58.043" N	89° 47' 25.851" E	103	26° 38' 31.261" N	89° 47' 24.744" E	162	26° 40' 33.549" N	89° 46' 56.725" E	221	26° 40' 15.421" N	89° 47' 34.527" E			
44	26° 39' 55.466" N	89° 47' 25.788" E	104	26° 38' 33.252" N	89° 47' 24.666" E	163	26° 40' 37.008" N	89° 46' 57.814" E	222	26° 40' 18.798" N	89° 47' 32.383" E			
45	26° 39' 53.430" N	89° 47' 29.198" E	105	26° 38' 34.318" N	89° 47' 23.531" E	164	26° 40' 41.762" N	89° 46' 58.646" E	223	26° 40' 25.095" N	89° 47' 26.796" E			
46	26° 39' 51.266" N	89° 47' 28.423" E	106	26° 38' 34.365" N	89° 47' 21.141" E	165	26° 40' 40.839" N	89° 47' 0.664" E	224	26° 40' 27.679" N	89° 47' 19.972" E			
47	26° 39' 43.465" N	89° 47' 29.438" E	107	26° 38' 33.493" N	89° 47' 21.232" E	166	26° 40' 37.851" N	89° 47' 0.847" E	225	26° 40' 33.200" N	89° 47' 14.510" E			
48	26° 39' 37.192" N	89° 47' 31.488" E	108	26° 38' 36.568" N	89° 47' 17.103" E	167	26° 40' 33.117" N	89° 47' 5.611" E	226	26° 40' 44.890" N	89° 47' 3.458" E			
49	26° 39' 29.728" N	89° 47' 29.710" E	109	26° 38' 37.941" N	89° 47' 14.031" E	168	26° 40' 27.360" N	89° 47' 9.919" E	227	26° 40' 45.523" N	89° 47' 1.603" E			
50	26° 39' 25.432" N	89° 47' 28.960" E	110	26° 38' 39.239" N	89° 47' 13.609" E	169	26° 39' 59.347" N	89° 47' 11.965" E	228	26° 40' 48.926" N	89° 47' 1.011" E			
51	26° 39' 24.878" N	89° 47' 29.075" E	111	26° 38' 40.764" N	89° 47' 12.570" E	170	26° 39' 57.764" N	89° 47' 13.791" E	229	26° 40' 49.215" N	89° 47' 0.885" E			
52	26° 39' 17.868" N	89° 47' 30.534" E	112	26° 38' 41.828" N	89° 47' 13.074" E	171	26° 39' 58.248" N	89° 47' 15.381" E	230	26° 40' 52.249" N	89° 46' 59.556" E			
53	26° 39' 13.468" N	89° 47' 32.130" E	113	26° 38' 42.313" N	89° 47' 15.716" E	172	26° 40' 0.590" N	89° 47' 14.291" E	231	26° 40' 56.080" N	89° 46' 57.741" E			
54	26° 39' 6.040" N	89° 47' 36.564" E	114	26° 38' 42.250" N	89° 47' 18.942" E	173	26° 40' 3.579" N	89° 47' 13.072" E	232	26° 40' 59.593" N	89° 46' 56.104" E			
55	26° 39' 5.808" N	89° 47' 36.703" E	115	26° 38' 40.380" N	89° 47' 21.168" E	174	26° 40' 3.232" N	89° 47' 11.055" E	233	26° 41' 7.825" N	89° 46' 54.583" E			
56	26° 39' 4.498" N	89° 47' 37.334" E	116	26° 38' 38.961" N	89° 47' 22.329" E	175	26° 40' 1.313" N	89° 47' 10.291" E	234	26° 41' 15.377" N	89° 46' 53.187" E			
57	26° 39' 3.894" N	89° 47' 37.401" E	117	26° 38' 37.012" N	89° 47' 23.118" E	176	26° 39' 59.347" N	89° 47' 11.965" E	235	26° 41' 19.646" N	89° 46' 52.430" E			
58	26° 38' 50.446" N	89° 47' 39.226" E	118	26° 38' 36.306" N	89° 47' 26.209" E	177	26° 41' 42.764" N	89° 46' 43.663" E	236	26° 41' 23.282" N	89° 46' 51.083" E			
59	26° 38' 40.866" N	89° 47' 40.188" E	119	26° 38' 34.610" N	89° 47' 28.614" E	178	26° 41' 37.371" N	89° 46' 49.129" E	237	26° 41' 26.146" N	89° 46' 49.966" E			

POTENTIAL BLOCK AD_KG_RD2_03 OF RAIDAK2 RIVER

89°46'30"E 89°46'45"E 89°47'0"E

26°41'30"N

AD_KG_RD2_03

RAIDAK2 RIVER

N W E S

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.05 0.1 0.2 0.3 0.4
Kilometers

AD_KG_RD2_03		
POINT_NO	Latitude	Longitude
1	26° 41' 26.481" N	89° 46' 45.707" E
2	26° 41' 25.414" N	89° 46' 47.547" E
3	26° 41' 22.162" N	89° 46' 49.047" E
4	26° 41' 19.296" N	89° 46' 50.556" E
5	26° 41' 16.834" N	89° 46' 51.213" E
6	26° 41' 16.384" N	89° 46' 50.292" E
7	26° 41' 20.111" N	89° 46' 48.423" E
8	26° 41' 23.249" N	89° 46' 46.203" E
9	26° 41' 25.212" N	89° 46' 44.672" E
10	26° 41' 25.632" N	89° 46' 42.960" E
11	26° 41' 26.512" N	89° 46' 40.942" E
12	26° 41' 25.733" N	89° 46' 39.620" E
13	26° 41' 26.201" N	89° 46' 38.669" E
14	26° 41' 29.032" N	89° 46' 37.073" E
15	26° 41' 33.841" N	89° 46' 33.764" E
16	26° 41' 38.895" N	89° 46' 34.337" E
17	26° 41' 38.411" N	89° 46' 35.520" E
18	26° 41' 37.027" N	89° 46' 40.366" E
19	26° 41' 35.310" N	89° 46' 42.477" E
20	26° 41' 32.848" N	89° 46' 43.135" E
21	26° 41' 30.904" N	89° 46' 43.662" E
22	26° 41' 28.966" N	89° 46' 43.902" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

POTENTIAL BLOCK AD_KG_RD2_04 OF RAIDAK2 RIVER

AD_KG_RD2_04

RAIDAK2 RIVER

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_04

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 40' 30.051" N	89° 46' 51.044" E	16	26° 41' 15.192" N	89° 46' 40.560" E
2	26° 40' 29.115" N	89° 46' 51.021" E	17	26° 41' 20.132" N	89° 46' 40.540" E
3	26° 40' 29.956" N	89° 46' 49.320" E	18	26° 41' 21.593" N	89° 46' 40.321" E
4	26° 40' 28.588" N	89° 46' 47.993" E	19	26° 41' 23.608" N	89° 46' 41.437" E
5	26° 40' 31.688" N	89° 46' 49.045" E	20	26° 41' 22.790" N	89° 46' 43.714" E
6	26° 40' 38.076" N	89° 46' 51.481" E	21	26° 41' 18.231" N	89° 46' 46.678" E
7	26° 40' 38.183" N	89° 46' 51.487" E	22	26° 41' 11.949" N	89° 46' 50.088" E
8	26° 40' 43.794" N	89° 46' 51.774" E	23	26° 41' 1.780" N	89° 46' 53.381" E
9	26° 40' 49.508" N	89° 46' 51.913" E	24	26° 40' 57.308" N	89° 46' 54.719" E
10	26° 40' 57.079" N	89° 46' 49.228" E	25	26° 40' 51.061" N	89° 46' 57.724" E
11	26° 41' 0.188" N	89° 46' 46.820" E	26	26° 40' 42.112" N	89° 46' 53.920" E
12	26° 41' 2.780" N	89° 46' 44.813" E	27	26° 40' 40.213" N	89° 46' 52.151" E
13	26° 41' 8.137" N	89° 46' 42.508" E	28	26° 40' 35.211" N	89° 46' 50.882" E
14	26° 41' 10.191" N	89° 46' 41.625" E	29	26° 40' 32.376" N	89° 46' 50.813" E
15	26° 41' 13.012" N	89° 46' 41.196" E			

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.175 0.35 0.7 1.05 1.4

Kilometers

N S W E

89°46'0"E 89°46'15"E 89°46'30"E 89°46'45"E 89°47'0"E 89°47'15"E 89°47'30"E 89°47'45"E

26°41'30"N 26°41'15"N 26°41'0"N 26°40'45"N 26°40'30"N

POTENTIAL BLOCK AD_KG_RD2_05 OF RAIDAK2 RIVER

89°46'30"E 89°46'45"E 89°47'0"E 89°47'15"E

26°40'15"N

26°40'0"N

AD_KG_RD2_05

RAIDAK2 RIVER

N W E S

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.075 0.15 0.3 0.45 0.6

Kilometers

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_05

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 39' 51.497" N	89° 46' 48.694" E	12	26° 40' 12.924" N	89° 46' 55.842" E
2	26° 39' 51.013" N	89° 46' 48.262" E	13	26° 40' 10.040" N	89° 46' 54.118" E
3	26° 39' 51.187" N	89° 46' 48.295" E	14	26° 40' 8.507" N	89° 46' 53.411" E
4	26° 39' 59.174" N	89° 46' 48.488" E	15	26° 40' 7.157" N	89° 46' 52.135" E
5	26° 40' 5.436" N	89° 46' 48.352" E	16	26° 40' 5.210" N	89° 46' 50.653" E
6	26° 40' 11.352" N	89° 46' 48.169" E	17	26° 40' 3.505" N	89° 46' 49.942" E
7	26° 40' 13.057" N	89° 46' 48.116" E	18	26° 39' 59.901" N	89° 46' 49.663" E
8	26° 40' 16.028" N	89° 46' 47.891" E	19	26° 39' 57.839" N	89° 46' 49.613" E
9	26° 40' 16.317" N	89° 46' 47.984" E	20	26° 39' 56.629" N	89° 46' 49.966" E
10	26° 40' 20.118" N	89° 46' 51.377" E	21	26° 39' 56.006" N	89° 46' 51.134" E
11	26° 40' 16.998" N	89° 46' 54.027" E	22	26° 39' 54.374" N	89° 46' 51.049" E

POTENTIAL BLOCK AD_KG_RD2_06 OF RAIDAK2 RIVER

89°46'30"E 89°46'45"E 89°47'0"E 89°47'15"E

26°39'45"N 26°39'30"N

AD_KG_RD2_06

RAIDAK2 RIVER

N W E S

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.075 0.15 0.3 0.45 0.6
Kilometers

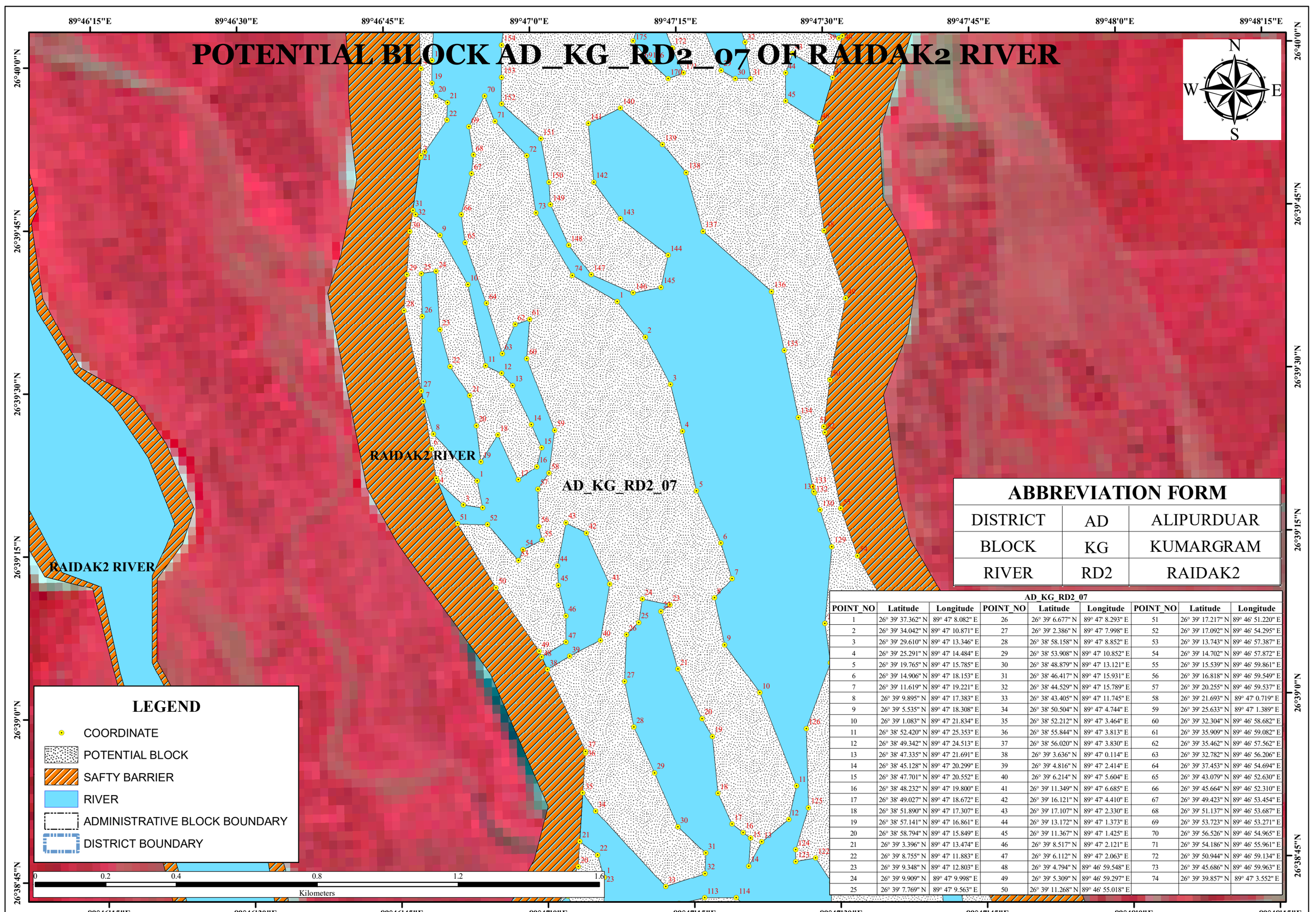
ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_06

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 39' 21.150" N	89° 46' 53.342" E	17	26° 39' 21.154" N	89° 46' 57.550" E
2	26° 39' 18.648" N	89° 46' 53.855" E	18	26° 39' 25.318" N	89° 46' 55.547" E
3	26° 39' 18.945" N	89° 46' 51.853" E	19	26° 39' 22.861" N	89° 46' 53.766" E
4	26° 39' 21.189" N	89° 46' 49.268" E	20	26° 39' 26.220" N	89° 46' 53.369" E
5	26° 39' 21.435" N	89° 46' 49.166" E	21	26° 39' 28.982" N	89° 46' 52.766" E
6	26° 39' 24.172" N	89° 46' 48.715" E	22	26° 39' 31.684" N	89° 46' 50.823" E
7	26° 39' 28.542" N	89° 46' 47.995" E	23	26° 39' 35.141" N	89° 46' 49.855" E
8	26° 39' 25.533" N	89° 46' 48.952" E	24	26° 39' 40.474" N	89° 46' 49.602" E
9	26° 39' 43.817" N	89° 46' 50.065" E	25	26° 39' 40.332" N	89° 46' 48.068" E
10	26° 39' 39.208" N	89° 46' 52.823" E	26	26° 39' 36.379" N	89° 46' 48.068" E
11	26° 39' 31.699" N	89° 46' 54.458" E	27	26° 39' 29.540" N	89° 46' 47.811" E
12	26° 39' 30.980" N	89° 46' 56.067" E	28	26° 39' 36.970" N	89° 46' 46.227" E
13	26° 39' 29.841" N	89° 46' 57.187" E	29	26° 39' 40.269" N	89° 46' 46.579" E
14	26° 39' 26.196" N	89° 46' 59.011" E	30	26° 39' 44.207" N	89° 46' 47.000" E
15	26° 39' 24.028" N	89° 47' 0.011" E	31	26° 39' 46.175" N	89° 46' 47.365" E
16	26° 39' 22.319" N	89° 46' 59.491" E	32	26° 39' 45.755" N	89° 46' 47.626" E

POTENTIAL BLOCK AD_KG_RD2_07 OF RAIDAK2 RIVER



LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_07

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 39' 37.362" N	89° 47' 8.082" E	26	26° 39' 6.677" N	89° 47' 8.293" E	51	26° 39' 17.217" N	89° 46' 51.220" E
2	26° 39' 34.042" N	89° 47' 10.871" E	27	26° 39' 2.386" N	89° 47' 7.998" E	52	26° 39' 17.092" N	89° 46' 54.295" E
3	26° 39' 29.610" N	89° 47' 13.346" E	28	26° 38' 58.158" N	89° 47' 8.852" E	53	26° 39' 13.743" N	89° 46' 57.387" E
4	26° 39' 25.291" N	89° 47' 14.484" E	29	26° 38' 53.908" N	89° 47' 10.852" E	54	26° 39' 14.702" N	89° 46' 57.872" E
5	26° 39' 19.765" N	89° 47' 15.785" E	30	26° 38' 48.879" N	89° 47' 13.121" E	55	26° 39' 15.539" N	89° 46' 59.861" E
6	26° 39' 14.906" N	89° 47' 18.153" E	31	26° 38' 46.417" N	89° 47' 15.931" E	56	26° 39' 16.818" N	89° 46' 59.549" E
7	26° 39' 11.619" N	89° 47' 19.221" E	32	26° 38' 44.529" N	89° 47' 15.789" E	57	26° 39' 20.255" N	89° 46' 59.537" E
8	26° 39' 9.895" N	89° 47' 17.383" E	33	26° 38' 43.405" N	89° 47' 11.745" E	58	26° 39' 21.693" N	89° 47' 0.719" E
9	26° 39' 5.535" N	89° 47' 18.308" E	34	26° 38' 50.504" N	89° 47' 4.744" E	59	26° 39' 25.633" N	89° 47' 1.389" E
10	26° 39' 1.083" N	89° 47' 21.834" E	35	26° 38' 52.212" N	89° 47' 3.464" E	60	26° 39' 32.304" N	89° 46' 58.682" E
11	26° 38' 52.420" N	89° 47' 25.353" E	36	26° 38' 55.844" N	89° 47' 3.813" E	61	26° 39' 35.909" N	89° 46' 59.082" E
12	26° 38' 49.342" N	89° 47' 24.513" E	37	26° 38' 56.020" N	89° 47' 3.830" E	62	26° 39' 35.462" N	89° 46' 57.562" E
13	26° 38' 47.335" N	89° 47' 21.691" E	38	26° 39' 3.636" N	89° 47' 0.114" E	63	26° 39' 32.782" N	89° 46' 56.206" E
14	26° 38' 45.128" N	89° 47' 20.299" E	39	26° 39' 4.816" N	89° 47' 2.414" E	64	26° 39' 37.453" N	89° 46' 54.694" E
15	26° 38' 47.701" N	89° 47' 20.552" E	40	26° 39' 6.214" N	89° 47' 5.604" E	65	26° 39' 43.079" N	89° 46' 52.630" E
16	26° 38' 48.232" N	89° 47' 19.800" E	41	26° 39' 11.349" N	89° 47' 6.685" E	66	26° 39' 45.664" N	89° 46' 52.310" E
17	26° 38' 49.027" N	89° 47' 18.672" E	42	26° 39' 16.121" N	89° 47' 4.410" E	67	26° 39' 49.423" N	89° 46' 53.454" E
18	26° 38' 51.890" N	89° 47' 17.307" E	43	26° 39' 17.107" N	89° 47' 2.330" E	68	26° 39' 51.137" N	89° 46' 53.687" E
19	26° 38' 57.141" N	89° 47' 16.861" E	44	26° 39' 13.172" N	89° 47' 1.373" E	69	26° 39' 53.723" N	89° 46' 53.271" E
20	26° 38' 58.794" N	89° 47' 15.849" E	45	26° 39' 11.367" N	89° 47' 1.425" E	70	26° 39' 56.526" N	89° 46' 54.965" E
21	26° 39' 3.396" N	89° 47' 13.474" E	46	26° 39' 8.517" N	89° 47' 2.121" E	71	26° 39' 54.186" N	89° 46' 55.961" E
22	26° 39' 8.755" N	89° 47' 11.883" E	47	26° 39' 6.112" N	89° 47' 2.063" E	72	26° 39' 50.944" N	89° 46' 59.134" E
23	26° 39' 9.348" N	89° 47' 12.803" E	48	26° 39' 4.794" N	89° 46' 59.548" E	73	26° 39' 45.686" N	89° 46' 59.963" E
24	26° 39' 9.909" N	89° 47' 9.998" E	49	26° 39' 5.309" N	89° 46' 59.297" E	74	26° 39' 39.857" N	89° 47' 3.552" E
25	26° 39' 7.769" N	89° 47' 9.563" E	50	26° 39' 11.268" N	89° 46' 55.018" E			

POTENTIAL BLOCK AD_KG_RD2_08 OF RAIDAK2 RIVER

89°47'0"E

89°47'15"E

26°38'45"N

26°38'30"N

RAIDAK2 RIVER

AD_KG_RD2_08

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.05 0.1 0.2 0.3 0.4

Kilometers

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_08

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 38' 44.388" N	89° 47' 5.457" E	12	26° 38' 32.351" N	89° 47' 10.138" E
2	26° 38' 41.639" N	89° 47' 5.390" E	13	26° 38' 31.860" N	89° 47' 8.882" E
3	26° 38' 39.113" N	89° 47' 7.146" E	14	26° 38' 33.285" N	89° 47' 6.335" E
4	26° 38' 37.436" N	89° 47' 9.400" E	15	26° 38' 34.786" N	89° 47' 4.267" E
5	26° 38' 37.316" N	89° 47' 11.119" E	16	26° 38' 37.654" N	89° 47' 2.615" E
6	26° 38' 38.233" N	89° 47' 12.576" E	17	26° 38' 40.400" N	89° 47' 2.873" E
7	26° 38' 35.648" N	89° 47' 12.895" E	18	26° 38' 42.743" N	89° 47' 1.687" E
8	26° 38' 34.904" N	89° 47' 12.813" E	19	26° 38' 42.087" N	89° 47' 0.778" E
9	26° 38' 33.992" N	89° 47' 14.558" E	20	26° 38' 45.433" N	89° 47' 2.812" E
10	26° 38' 29.986" N	89° 47' 15.034" E	21	26° 38' 47.751" N	89° 47' 3.035" E
11	26° 38' 28.714" N	89° 47' 14.143" E	22	26° 38' 46.463" N	89° 47' 4.838" E

POTENTIAL BLOCK AD_KG_RD2_09 OF RAIDAK2 RIVER

89°47'15"E 89°47'30"E 89°47'45"E

26°38'15"N

26°38'0"N

RAIDAK2 RIVER

AD_KG_RD2_09

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.075 0.15 0.3 0.45 0.6

Kilometers

N W E S

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_09

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 38' 5.061" N	89° 47' 19.951" E	13	26° 38' 4.375" N	89° 47' 16.587" E
2	26° 38' 3.077" N	89° 47' 22.533" E	14	26° 38' 7.080" N	89° 47' 15.577" E
3	26° 38' 4.869" N	89° 47' 24.250" E	15	26° 38' 11.268" N	89° 47' 15.679" E
4	26° 38' 2.329" N	89° 47' 27.774" E	16	26° 38' 13.385" N	89° 47' 17.284" E
5	26° 37' 58.639" N	89° 47' 29.716" E	17	26° 38' 17.678" N	89° 47' 17.508" E
6	26° 37' 54.465" N	89° 47' 28.898" E	18	26° 38' 19.951" N	89° 47' 16.607" E
7	26° 37' 52.150" N	89° 47' 26.451" E	19	26° 38' 23.084" N	89° 47' 15.727" E
8	26° 37' 52.908" N	89° 47' 26.110" E	20	26° 38' 20.021" N	89° 47' 18.521" E
9	26° 37' 56.272" N	89° 47' 24.399" E	21	26° 38' 15.707" N	89° 47' 19.373" E
10	26° 37' 58.268" N	89° 47' 21.220" E	22	26° 38' 11.307" N	89° 47' 19.147" E
11	26° 37' 59.933" N	89° 47' 18.512" E	23	26° 38' 7.531" N	89° 47' 20.011" E
12	26° 38' 1.354" N	89° 47' 17.231" E			

89°47'45"E

POTENTIAL BLOCK AD_KG_RD2_10A OF RAIDAK2 RIVER



26°37'30"N



26°37'30"N

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_10A		
POINT_NO	Latitude	Longitude
1	26° 37' 25.324" N	89° 47' 46.592" E
2	26° 37' 22.910" N	89° 47' 43.665" E
3	26° 37' 24.523" N	89° 47' 43.585" E
4	26° 37' 26.673" N	89° 47' 43.517" E
5	26° 37' 27.434" N	89° 47' 43.058" E
6	26° 37' 28.319" N	89° 47' 41.765" E
7	26° 37' 30.950" N	89° 47' 39.080" E
8	26° 37' 33.673" N	89° 47' 37.463" E
9	26° 37' 31.870" N	89° 47' 40.554" E
10	26° 37' 30.943" N	89° 47' 44.532" E
11	26° 37' 29.768" N	89° 47' 44.549" E
12	26° 37' 27.571" N	89° 47' 47.005" E

LEGEND

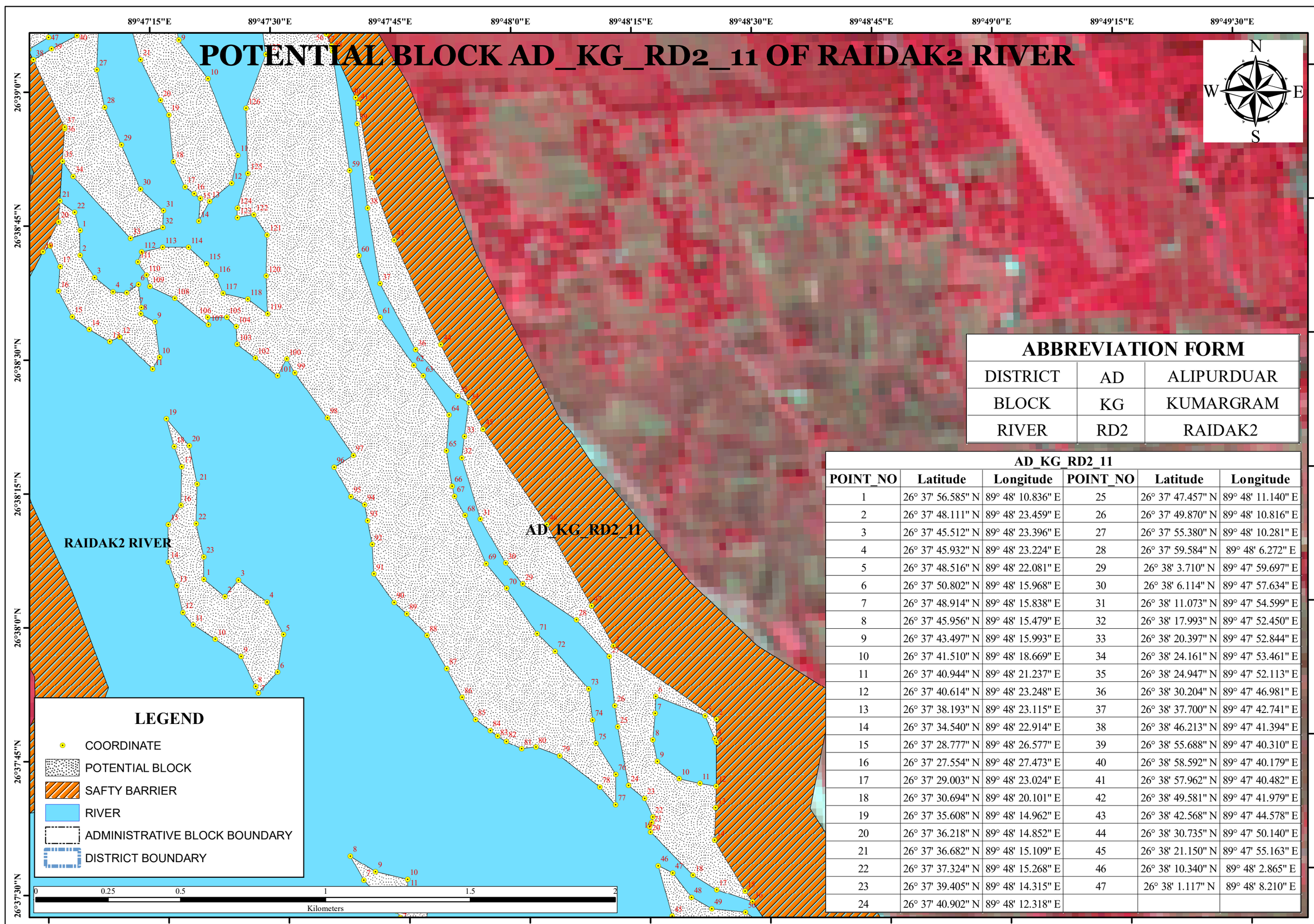
- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.035 0.07 0.14 0.21 0.28

Kilometers

89°47'45"E

POTENTIAL BLOCK AD_KG_RD2_11 OF RAIDAK2 RIVER

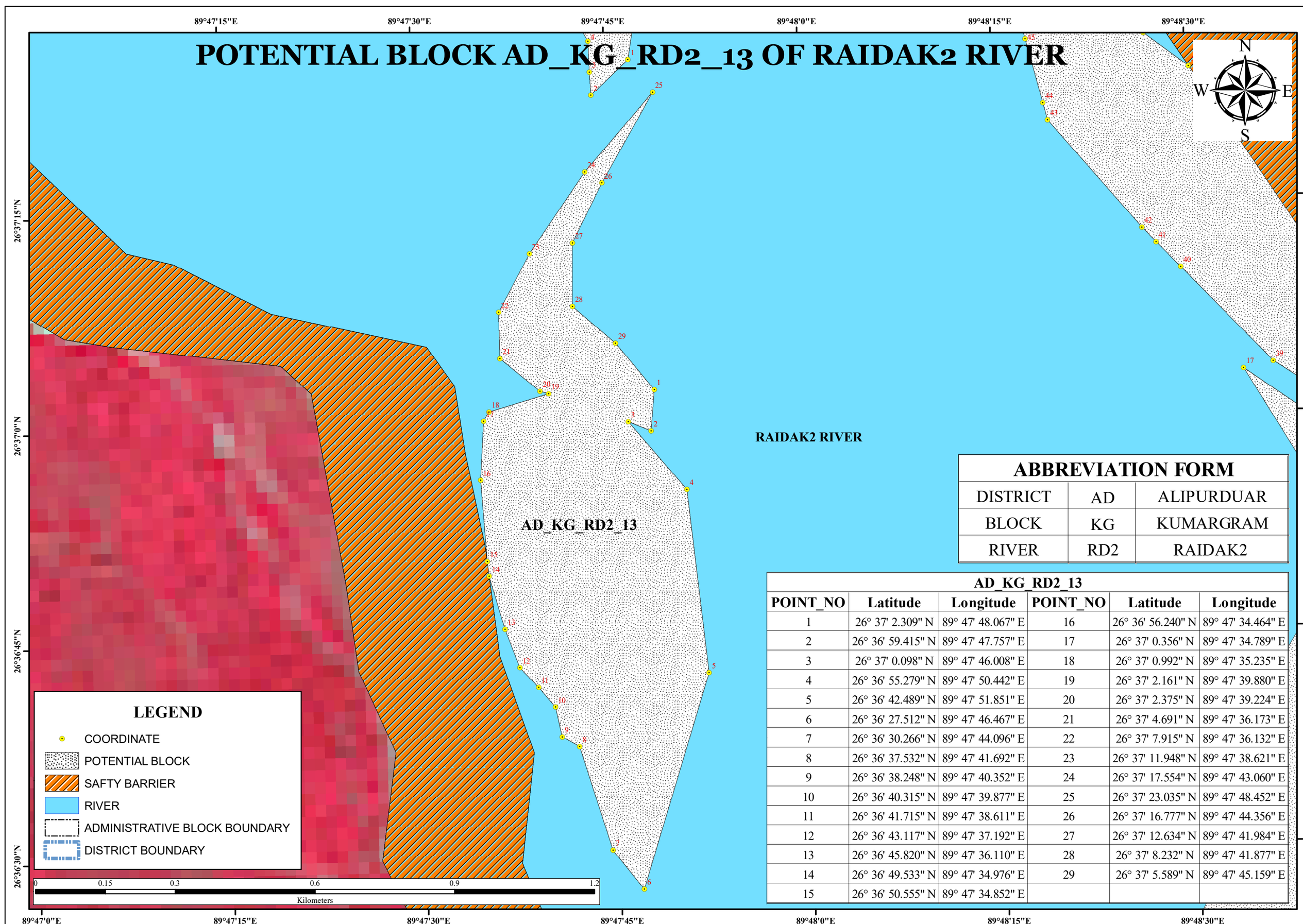


ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_11

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 37' 56.585" N	89° 48' 10.836" E	25	26° 37' 47.457" N	89° 48' 11.140" E
2	26° 37' 48.111" N	89° 48' 23.459" E	26	26° 37' 49.870" N	89° 48' 10.816" E
3	26° 37' 45.512" N	89° 48' 23.396" E	27	26° 37' 55.380" N	89° 48' 10.281" E
4	26° 37' 45.932" N	89° 48' 23.224" E	28	26° 37' 59.584" N	89° 48' 6.272" E
5	26° 37' 48.516" N	89° 48' 22.081" E	29	26° 38' 3.710" N	89° 47' 59.697" E
6	26° 37' 50.802" N	89° 48' 15.968" E	30	26° 38' 6.114" N	89° 47' 57.634" E
7	26° 37' 48.914" N	89° 48' 15.838" E	31	26° 38' 11.073" N	89° 47' 54.599" E
8	26° 37' 45.956" N	89° 48' 15.479" E	32	26° 38' 17.993" N	89° 47' 52.450" E
9	26° 37' 43.497" N	89° 48' 15.993" E	33	26° 38' 20.397" N	89° 47' 52.844" E
10	26° 37' 41.510" N	89° 48' 18.669" E	34	26° 38' 24.161" N	89° 47' 53.461" E
11	26° 37' 40.944" N	89° 48' 21.237" E	35	26° 38' 24.947" N	89° 47' 52.113" E
12	26° 37' 40.614" N	89° 48' 23.248" E	36	26° 38' 30.204" N	89° 47' 46.981" E
13	26° 37' 38.193" N	89° 48' 23.115" E	37	26° 38' 37.700" N	89° 47' 42.741" E
14	26° 37' 34.540" N	89° 48' 22.914" E	38	26° 38' 46.213" N	89° 47' 41.394" E
15	26° 37' 28.777" N	89° 48' 26.577" E	39	26° 38' 55.688" N	89° 47' 40.310" E
16	26° 37' 27.554" N	89° 48' 27.473" E	40	26° 38' 58.592" N	89° 47' 40.179" E
17	26° 37' 29.003" N	89° 48' 23.024" E	41	26° 38' 57.962" N	89° 47' 40.482" E
18	26° 37' 30.694" N	89° 48' 20.101" E	42	26° 38' 49.581" N	89° 47' 41.979" E
19	26° 37' 35.608" N	89° 48' 14.962" E	43	26° 38' 42.568" N	89° 47' 44.578" E
20	26° 37' 36.218" N	89° 48' 14.852" E	44	26° 38' 30.735" N	89° 47' 50.140" E
21	26° 37' 36.682" N	89° 48' 15.109" E	45	26° 38' 21.150" N	89° 47' 55.163" E
22	26° 37' 37.324" N	89° 48' 15.268" E	46	26° 38' 10.340" N	89° 48' 2.865" E
23	26° 37' 39.405" N	89° 48' 14.315" E	47	26° 38' 1.117" N	89° 48' 8.210" E
24	26° 37' 40.902" N	89° 48' 12.318" E			

POTENTIAL BLOCK AD_KG_RD2_13 OF RAIDAK2 RIVER



ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_13					
POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 37' 2.309" N	89° 47' 48.067" E	16	26° 36' 56.240" N	89° 47' 34.464" E
2	26° 36' 59.415" N	89° 47' 47.757" E	17	26° 37' 0.356" N	89° 47' 34.789" E
3	26° 37' 0.098" N	89° 47' 46.008" E	18	26° 37' 0.992" N	89° 47' 35.235" E
4	26° 36' 55.279" N	89° 47' 50.442" E	19	26° 37' 2.161" N	89° 47' 39.880" E
5	26° 36' 42.489" N	89° 47' 51.851" E	20	26° 37' 2.375" N	89° 47' 39.224" E
6	26° 36' 27.512" N	89° 47' 46.467" E	21	26° 37' 4.691" N	89° 47' 36.173" E
7	26° 36' 30.266" N	89° 47' 44.096" E	22	26° 37' 7.915" N	89° 47' 36.132" E
8	26° 36' 37.532" N	89° 47' 41.692" E	23	26° 37' 11.948" N	89° 47' 38.621" E
9	26° 36' 38.248" N	89° 47' 40.352" E	24	26° 37' 17.554" N	89° 47' 43.060" E
10	26° 36' 40.315" N	89° 47' 39.877" E	25	26° 37' 23.035" N	89° 47' 48.452" E
11	26° 36' 41.715" N	89° 47' 38.611" E	26	26° 37' 16.777" N	89° 47' 44.356" E
12	26° 36' 43.117" N	89° 47' 37.192" E	27	26° 37' 12.634" N	89° 47' 41.984" E
13	26° 36' 45.820" N	89° 47' 36.110" E	28	26° 37' 8.232" N	89° 47' 41.877" E
14	26° 36' 49.533" N	89° 47' 34.976" E	29	26° 37' 5.589" N	89° 47' 45.159" E
15	26° 36' 50.555" N	89° 47' 34.852" E			

POTENTIAL BLOCK AD_KG_RD2_14_11 OF RAIDAK2 RIVER

RAIDAK2 RIVER

AD_KG_RD2_14_11

N

W E

S

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_14_11

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 35' 39.341" N	89° 48' 27.917" E	27	26° 36' 18.699" N	89° 48' 38.057" E
2	26° 35' 38.367" N	89° 48' 25.025" E	28	26° 36' 14.953" N	89° 48' 35.001" E
3	26° 35' 43.662" N	89° 48' 22.382" E	29	26° 36' 8.471" N	89° 48' 32.452" E
4	26° 35' 51.647" N	89° 48' 22.768" E	30	26° 36' 3.650" N	89° 48' 32.908" E
5	26° 35' 57.620" N	89° 48' 24.922" E	31	26° 35' 59.708" N	89° 48' 32.334" E
6	26° 36' 3.063" N	89° 48' 27.827" E	32	26° 35' 53.786" N	89° 48' 36.723" E
7	26° 36' 7.287" N	89° 48' 27.165" E	33	26° 35' 51.552" N	89° 48' 36.245" E
8	26° 36' 11.795" N	89° 48' 25.172" E	34	26° 35' 50.294" N	89° 48' 34.685" E
9	26° 36' 15.492" N	89° 48' 25.072" E	35	26° 35' 48.340" N	89° 48' 30.961" E
10	26° 36' 20.267" N	89° 48' 27.005" E	36	26° 37' 1.321" N	89° 48' 39.553" E
11	26° 36' 25.878" N	89° 48' 30.105" E	37	26° 37' 3.396" N	89° 48' 36.096" E
12	26° 36' 31.879" N	89° 48' 30.826" E	38	26° 37' 10.070" N	89° 48' 29.088" E
13	26° 36' 39.380" N	89° 48' 33.973" E	39	26° 37' 11.849" N	89° 48' 27.221" E
14	26° 36' 45.399" N	89° 48' 38.136" E	40	26° 37' 12.874" N	89° 48' 26.145" E
15	26° 36' 47.308" N	89° 48' 41.295" E	41	26° 37' 20.491" N	89° 48' 19.016" E
16	26° 36' 52.868" N	89° 48' 40.428" E	42	26° 37' 21.702" N	89° 48' 18.674" E
17	26° 37' 2.926" N	89° 48' 33.790" E	43	26° 37' 26.177" N	89° 48' 17.408" E
18	26° 36' 59.600" N	89° 48' 39.015" E	44	26° 37' 31.824" N	89° 48' 15.810" E
19	26° 36' 59.387" N	89° 48' 39.695" E	45	26° 37' 30.992" N	89° 48' 17.612" E
20	26° 36' 56.945" N	89° 48' 39.875" E	46	26° 37' 28.214" N	89° 48' 19.896" E
21	26° 36' 50.718" N	89° 48' 42.620" E	47	26° 37' 26.875" N	89° 48' 22.388" E
22	26° 36' 41.417" N	89° 48' 42.392" E	48	26° 37' 26.432" N	89° 48' 26.565" E
23	26° 36' 35.918" N	89° 48' 42.394" E	49	26° 37' 24.075" N	89° 48' 30.021" E
24	26° 36' 27.253" N	89° 48' 42.087" E	50	26° 37' 20.606" N	89° 48' 32.563" E
25	26° 36' 24.635" N	89° 48' 43.214" E	51	26° 37' 12.328" N	89° 48' 38.527" E
26	26° 36' 21.517" N	89° 48' 42.045" E	52	26° 37' 4.784" N	89° 48' 39.298" E

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

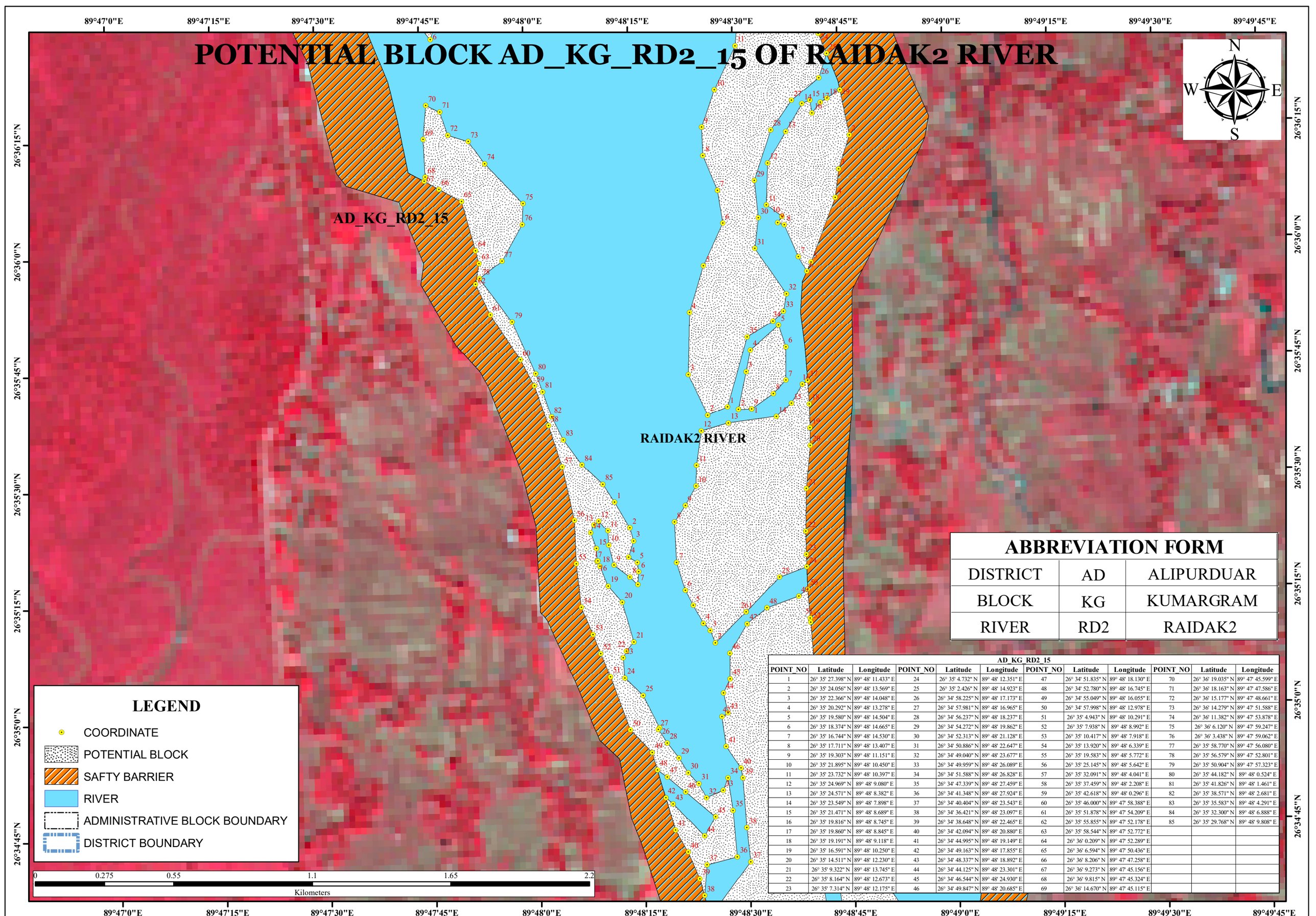
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Kilometers

89°47'0"E 89°47'15"E 89°47'30"E 89°47'45"E 89°48'0"E 89°48'15"E 89°48'30"E 89°48'45"E 89°49'0"E 89°49'15"E 89°49'30"E 89°49'45"E 89°50'0"E

26°37'30"N 26°37'15"N 26°37'0"N 26°36'45"N 26°36'30"N 26°36'15"N 26°36'0"N 26°35'45"N

POTENTIAL BLOCK AD_KG_RD2_15 OF RAIDAK2 RIVER



ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.275 0.55 1.1 1.65 2.2
Kilometers

AD_KG_RD2_15

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 35' 27.398" N	89° 48' 11.433" E	24	26° 35' 4.732" N	89° 48' 12.351" E	47	26° 34' 51.835" N	89° 48' 18.130" E	70	26° 36' 19.035" N	89° 47' 45.599" E
2	26° 35' 24.056" N	89° 48' 13.569" E	25	26° 35' 2.426" N	89° 48' 14.923" E	48	26° 34' 52.780" N	89° 48' 16.745" E	71	26° 36' 18.163" N	89° 47' 47.586" E
3	26° 35' 22.366" N	89° 48' 14.048" E	26	26° 34' 58.225" N	89° 48' 17.173" E	49	26° 34' 55.049" N	89° 48' 16.055" E	72	26° 36' 15.177" N	89° 47' 48.661" E
4	26° 35' 20.292" N	89° 48' 13.278" E	27	26° 34' 57.981" N	89° 48' 16.965" E	50	26° 34' 57.998" N	89° 48' 12.978" E	73	26° 36' 14.279" N	89° 47' 51.588" E
5	26° 35' 19.580" N	89° 48' 14.504" E	28	26° 34' 56.237" N	89° 48' 18.237" E	51	26° 35' 4.943" N	89° 48' 10.291" E	74	26° 36' 11.382" N	89° 47' 53.878" E
6	26° 35' 18.374" N	89° 48' 14.665" E	29	26° 34' 54.272" N	89° 48' 19.862" E	52	26° 35' 7.938" N	89° 48' 8.992" E	75	26° 36' 6.120" N	89° 47' 59.247" E
7	26° 35' 16.744" N	89° 48' 14.530" E	30	26° 34' 52.313" N	89° 48' 21.128" E	53	26° 35' 10.417" N	89° 48' 7.918" E	76	26° 36' 3.438" N	89° 47' 59.062" E
8	26° 35' 17.711" N	89° 48' 13.407" E	31	26° 34' 50.886" N	89° 48' 22.647" E	54	26° 35' 13.920" N	89° 48' 6.339" E	77	26° 35' 58.770" N	89° 47' 56.080" E
9	26° 35' 19.303" N	89° 48' 11.151" E	32	26° 34' 49.040" N	89° 48' 23.677" E	55	26° 35' 19.583" N	89° 48' 5.772" E	78	26° 35' 56.579" N	89° 47' 52.801" E
10	26° 35' 21.895" N	89° 48' 10.450" E	33	26° 34' 49.959" N	89° 48' 26.089" E	56	26° 35' 25.145" N	89° 48' 5.642" E	79	26° 35' 50.904" N	89° 47' 57.323" E
11	26° 35' 23.732" N	89° 48' 10.397" E	34	26° 34' 51.588" N	89° 48' 26.828" E	57	26° 35' 32.091" N	89° 48' 4.041" E	80	26° 35' 44.182" N	89° 48' 0.524" E
12	26° 35' 24.969" N	89° 48' 9.080" E	35	26° 34' 47.339" N	89° 48' 27.459" E	58	26° 35' 37.459" N	89° 48' 2.208" E	81	26° 35' 41.826" N	89° 48' 1.461" E
13	26° 35' 24.571" N	89° 48' 8.382" E	36	26° 34' 41.348" N	89° 48' 27.924" E	59	26° 35' 42.618" N	89° 48' 0.296" E	82	26° 35' 38.571" N	89° 48' 2.681" E
14	26° 35' 23.549" N	89° 48' 7.898" E	37	26° 34' 40.404" N	89° 48' 23.543" E	60	26° 35' 46.000" N	89° 47' 58.388" E	83	26° 35' 35.583" N	89° 48' 4.291" E
15	26° 35' 21.471" N	89° 48' 8.689" E	38	26° 34' 36.421" N	89° 48' 23.097" E	61	26° 35' 51.878" N	89° 47' 54.209" E	84	26° 35' 32.300" N	89° 48' 6.888" E
16	26° 35' 19.816" N	89° 48' 8.745" E	39	26° 34' 38.648" N	89° 48' 22.465" E	62	26° 35' 55.855" N	89° 47' 52.178" E	85	26° 35' 29.768" N	89° 48' 9.808" E
17	26° 35' 19.860" N	89° 48' 8.845" E	40	26° 34' 42.094" N	89° 48' 20.880" E	63	26° 35' 58.544" N	89° 47' 52.772" E			
18	26° 35' 19.191" N	89° 48' 9.118" E	41	26° 34' 44.995" N	89° 48' 19.149" E	64	26° 36' 0.209" N	89° 47' 52.289" E			
19	26° 35' 16.591" N	89° 48' 10.250" E	42	26° 34' 49.163" N	89° 48' 17.855" E	65	26° 36' 6.594" N	89° 47' 50.436" E			
20	26° 35' 14.511" N	89° 48' 12.230" E	43	26° 34' 48.337" N	89° 48' 18.892" E	66	26° 36' 8.206" N	89° 47' 47.258" E			
21	26° 35' 9.322" N	89° 48' 13.745" E	44	26° 34' 44.125" N	89° 48' 23.301" E	67	26° 36' 9.273" N	89° 47' 45.156" E			
22	26° 35' 8.164" N	89° 48' 12.673" E	45	26° 34' 46.544" N	89° 48' 24.930" E	68	26° 36' 9.815" N	89° 47' 45.324" E			
23	26° 35' 7.314" N	89° 48' 12.175" E	46	26° 34' 49.847" N	89° 48' 20.685" E	69	26° 36' 14.670" N	89° 47' 45.115" E			

POTENTIAL BLOCK AD_KG_RD2_16 OF RAIDAK2 RIVER

89°48'30"E 89°48'45"E 89°49'0"E

26°36'15"N 26°36'0"N

AD_KG_RD2_16

RAIDAK2 RIVER

N W E S

AD_KG_RD2_16		
POINT_NO	Latitude	Longitude
1	26° 36' 19.948" N	89° 48' 44.988" E
2	26° 36' 14.098" N	89° 48' 46.208" E
3	26° 36' 9.729" N	89° 48' 44.592" E
4	26° 36' 6.069" N	89° 48' 44.003" E
5	26° 35' 57.791" N	89° 48' 40.333" E
6	26° 35' 56.609" N	89° 48' 39.698" E
7	26° 35' 58.509" N	89° 48' 38.540" E
8	26° 36' 2.672" N	89° 48' 36.634" E
9	26° 36' 2.963" N	89° 48' 35.680" E
10	26° 36' 3.775" N	89° 48' 36.297" E
11	26° 36' 5.300" N	89° 48' 34.117" E
12	26° 36' 10.708" N	89° 48' 34.441" E
13	26° 36' 14.694" N	89° 48' 37.119" E
14	26° 36' 18.257" N	89° 48' 39.501" E
15	26° 36' 18.663" N	89° 48' 40.658" E
16	26° 36' 17.030" N	89° 48' 40.947" E
17	26° 36' 18.376" N	89° 48' 42.174" E
18	26° 36' 18.894" N	89° 48' 43.143" E

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.05 0.1 0.2 0.3 0.4

Kilometers

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

POTENTIAL BLOCK AD_KG_RD2_17 OF RAIDAK2 RIVER

89°48'30"E

89°48'45"E

26°35'45"N

N

W

E

S

AD_KG_RD2_17

RAIDAK2 RIVER

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_17

POINT_NO	Latitude	Longitude
1	26° 35' 39.057" N	89° 48' 31.373" E
2	26° 35' 39.008" N	89° 48' 29.460" E
3	26° 35' 43.841" N	89° 48' 30.671" E
4	26° 35' 46.620" N	89° 48' 31.366" E
5	26° 35' 49.762" N	89° 48' 35.476" E
6	26° 35' 46.949" N	89° 48' 36.483" E
7	26° 35' 42.654" N	89° 48' 36.378" E
8	26° 35' 40.971" N	89° 48' 34.544" E

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.035 0.07 0.14 0.21 0.28

Kilometers

POTENTIAL BLOCK AD_KG_RD2_18 OF RAIDAK2 RIVER

89°48'15"E 89°48'30"E 89°48'45"E 89°49'0"E

26°35'45"N 26°35'30"N 26°35'15"N

AD_KG_RD2_18

RAIDAK2 RIVER

N W E S

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.075 0.15 0.3 0.45 0.6

Kilometers

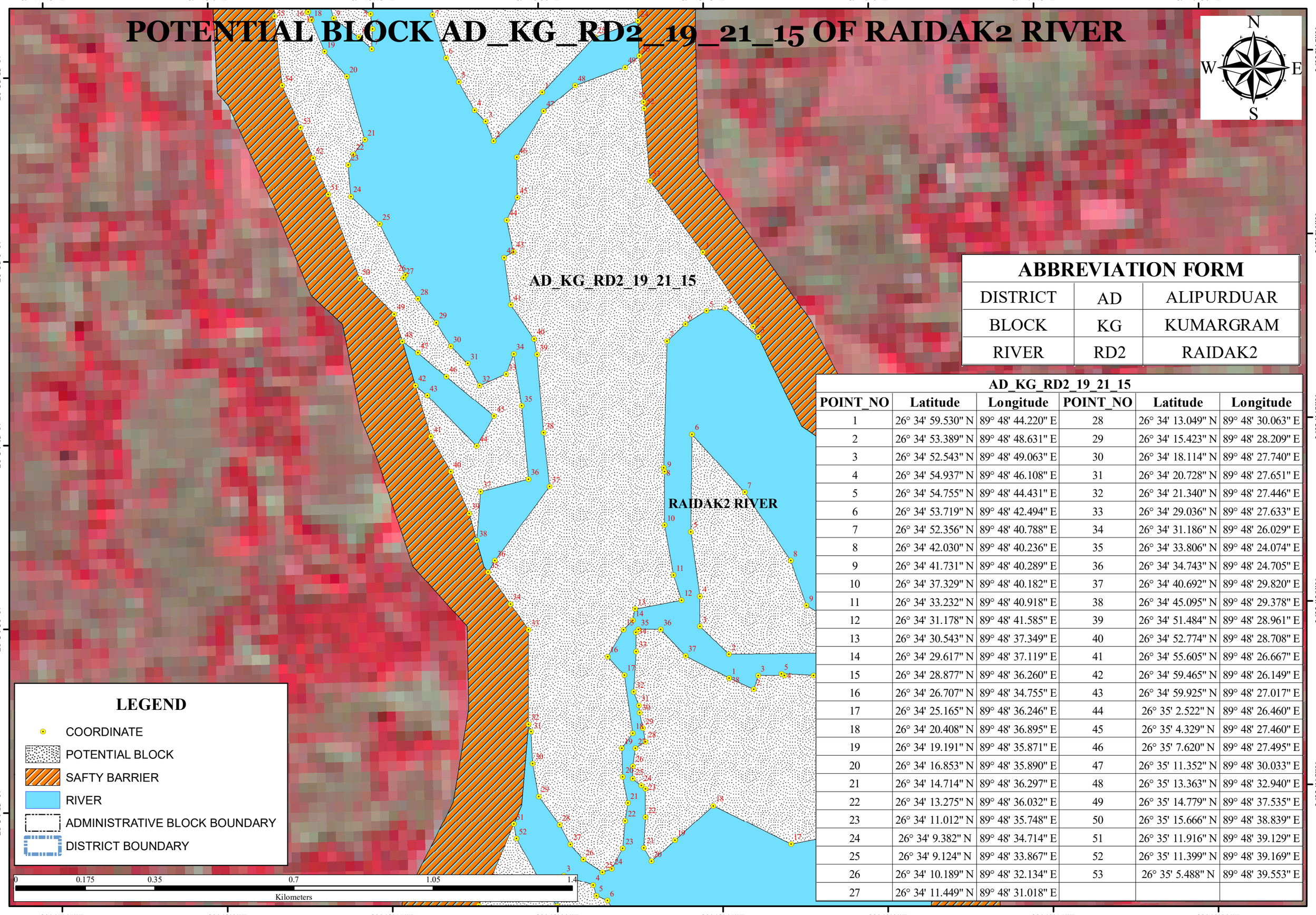
ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_18

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 35' 12.874" N	89° 48' 29.938" E	14	26° 35' 38.000" N	89° 48' 34.890" E
2	26° 35' 8.988" N	89° 48' 25.423" E	15	26° 35' 39.676" N	89° 48' 37.072" E
3	26° 35' 10.613" N	89° 48' 24.745" E	16	26° 35' 42.105" N	89° 48' 38.699" E
4	26° 35' 11.544" N	89° 48' 23.768" E	17	26° 35' 42.555" N	89° 48' 39.475" E
5	26° 35' 13.875" N	89° 48' 22.382" E	18	26° 35' 39.504" N	89° 48' 39.652" E
6	26° 35' 15.873" N	89° 48' 21.284" E	19	26° 35' 36.433" N	89° 48' 39.660" E
7	26° 35' 19.419" N	89° 48' 20.127" E	20	26° 35' 34.174" N	89° 48' 39.667" E
8	26° 35' 24.665" N	89° 48' 19.969" E	21	26° 35' 28.632" N	89° 48' 38.963" E
9	26° 35' 26.782" N	89° 48' 21.550" E	22	26° 35' 23.124" N	89° 48' 38.753" E
10	26° 35' 29.243" N	89° 48' 23.139" E	23	26° 35' 20.175" N	89° 48' 38.730" E
11	26° 35' 31.904" N	89° 48' 23.300" E	24	26° 35' 18.551" N	89° 48' 38.767" E
12	26° 35' 36.358" N	89° 48' 24.078" E	25	26° 35' 17.289" N	89° 48' 34.826" E
13	26° 35' 37.311" N	89° 48' 27.991" E			

POTENTIAL BLOCK AD_KG_RD2_19_21_15 OF RAIDAK2 RIVER



ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_19_21_15

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 34' 59.530" N	89° 48' 44.220" E	28	26° 34' 13.049" N	89° 48' 30.063" E
2	26° 34' 53.389" N	89° 48' 48.631" E	29	26° 34' 15.423" N	89° 48' 28.209" E
3	26° 34' 52.543" N	89° 48' 49.063" E	30	26° 34' 18.114" N	89° 48' 27.740" E
4	26° 34' 54.937" N	89° 48' 46.108" E	31	26° 34' 20.728" N	89° 48' 27.651" E
5	26° 34' 54.755" N	89° 48' 44.431" E	32	26° 34' 21.340" N	89° 48' 27.446" E
6	26° 34' 53.719" N	89° 48' 42.494" E	33	26° 34' 29.036" N	89° 48' 27.633" E
7	26° 34' 52.356" N	89° 48' 40.788" E	34	26° 34' 31.186" N	89° 48' 26.029" E
8	26° 34' 42.030" N	89° 48' 40.236" E	35	26° 34' 33.806" N	89° 48' 24.074" E
9	26° 34' 41.731" N	89° 48' 40.289" E	36	26° 34' 34.743" N	89° 48' 24.705" E
10	26° 34' 37.329" N	89° 48' 40.182" E	37	26° 34' 40.692" N	89° 48' 29.820" E
11	26° 34' 33.232" N	89° 48' 40.918" E	38	26° 34' 45.095" N	89° 48' 29.378" E
12	26° 34' 31.178" N	89° 48' 41.585" E	39	26° 34' 51.484" N	89° 48' 28.961" E
13	26° 34' 30.543" N	89° 48' 37.349" E	40	26° 34' 52.774" N	89° 48' 28.708" E
14	26° 34' 29.617" N	89° 48' 37.119" E	41	26° 34' 55.605" N	89° 48' 26.667" E
15	26° 34' 28.877" N	89° 48' 36.260" E	42	26° 34' 59.465" N	89° 48' 26.149" E
16	26° 34' 26.707" N	89° 48' 34.755" E	43	26° 34' 59.925" N	89° 48' 27.017" E
17	26° 34' 25.165" N	89° 48' 36.246" E	44	26° 35' 2.522" N	89° 48' 26.460" E
18	26° 34' 20.408" N	89° 48' 36.895" E	45	26° 35' 4.329" N	89° 48' 27.460" E
19	26° 34' 19.191" N	89° 48' 35.871" E	46	26° 35' 7.620" N	89° 48' 27.495" E
20	26° 34' 16.853" N	89° 48' 35.890" E	47	26° 35' 11.352" N	89° 48' 30.033" E
21	26° 34' 14.714" N	89° 48' 36.297" E	48	26° 35' 13.363" N	89° 48' 32.940" E
22	26° 34' 13.275" N	89° 48' 36.032" E	49	26° 35' 14.779" N	89° 48' 37.535" E
23	26° 34' 11.012" N	89° 48' 35.748" E	50	26° 35' 15.666" N	89° 48' 38.839" E
24	26° 34' 9.382" N	89° 48' 34.714" E	51	26° 35' 11.916" N	89° 48' 39.129" E
25	26° 34' 9.124" N	89° 48' 33.867" E	52	26° 35' 11.399" N	89° 48' 39.169" E
26	26° 34' 10.189" N	89° 48' 32.134" E	53	26° 35' 5.488" N	89° 48' 39.553" E
27	26° 34' 11.449" N	89° 48' 31.018" E			

POTENTIAL BLOCK AD_KG_RD2_20 OF RAIDAK2 RIVER

89°48'45"E 89°49'0"E

26°34'45"N

26°34'30"N

AD_KG_RD2_20

RAIDAK2 RIVER

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.05 0.1 0.2 0.3 0.4

Kilometers

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_20		
POINT_NO	Latitude	Longitude
1	26° 34' 26.581" N	89° 48' 56.765" E
2	26° 34' 26.690" N	89° 48' 45.776" E
3	26° 34' 28.997" N	89° 48' 43.204" E
4	26° 34' 31.467" N	89° 48' 43.264" E
5	26° 34' 36.745" N	89° 48' 42.557" E
6	26° 34' 44.688" N	89° 48' 42.871" E
7	26° 34' 39.869" N	89° 48' 47.532" E
8	26° 34' 34.203" N	89° 48' 51.575" E
9	26° 34' 30.524" N	89° 48' 52.918" E
10	26° 34' 27.628" N	89° 48' 58.104" E

POTENTIAL BLOCK AD_KG_RD2_21 OF RAIDAK2 RIVER

89°48'30"E 89°48'45"E 89°49'0"E 89°49'15"E

26°34'30"N 26°34'15"N 26°34'0"N

AD_KG_RD2_21

RAIDAK2 RIVER

N W E S

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.075 0.15 0.3 0.45 0.6

Kilometers

AD_KG_RD2_21

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 34' 24.723" N	89° 48' 45.751" E	20	26° 34' 9.928" N	89° 48' 38.325" E
2	26° 34' 23.772" N	89° 48' 47.964" E	21	26° 34' 11.043" N	89° 48' 37.660" E
3	26° 34' 24.886" N	89° 48' 48.384" E	22	26° 34' 13.514" N	89° 48' 37.873" E
4	26° 34' 24.848" N	89° 48' 50.776" E	23	26° 34' 15.850" N	89° 48' 37.930" E
5	26° 34' 24.985" N	89° 48' 50.513" E	24	26° 34' 16.133" N	89° 48' 37.555" E
6	26° 34' 24.807" N	89° 48' 53.412" E	25	26° 34' 16.697" N	89° 48' 36.804" E
7	26° 34' 24.669" N	89° 48' 55.643" E	26	26° 34' 17.728" N	89° 48' 36.829" E
8	26° 34' 22.763" N	89° 49' 1.343" E	27	26° 34' 19.167" N	89° 48' 37.094" E
9	26° 34' 19.651" N	89° 49' 1.330" E	28	26° 34' 19.698" N	89° 48' 38.024" E
10	26° 34' 13.999" N	89° 49' 3.310" E	29	26° 34' 20.802" N	89° 48' 37.822" E
11	26° 34' 11.881" N	89° 49' 1.303" E	30	26° 34' 22.045" N	89° 48' 37.546" E
12	26° 34' 9.449" N	89° 48' 59.332" E	31	26° 34' 22.665" N	89° 48' 37.485" E
13	26° 34' 7.846" N	89° 48' 58.934" E	32	26° 34' 23.774" N	89° 48' 37.053" E
14	26° 34' 9.710" N	89° 48' 57.643" E	33	26° 34' 27.068" N	89° 48' 37.363" E
15	26° 34' 13.345" N	89° 48' 53.747" E	34	26° 34' 28.637" N	89° 48' 37.377" E
16	26° 34' 11.463" N	89° 48' 53.551" E	35	26° 34' 28.859" N	89° 48' 37.609" E
17	26° 34' 11.083" N	89° 48' 51.033" E	36	26° 34' 28.819" N	89° 48' 39.639" E
18	26° 34' 14.336" N	89° 48' 44.064" E	37	26° 34' 26.627" N	89° 48' 41.855" E
19	26° 34' 11.597" N	89° 48' 40.498" E			

POTENTIAL BLOCK AD_KG_RD2_23 OF RAIDAK2 RIVER

89°47'45"E 89°48'0"E 89°48'15"E 89°48'30"E 89°48'45"E 89°49'0"E 89°49'15"E 89°49'30"E

26°34'15"N 26°34'0"N 26°33'45"N 26°33'30"N 26°33'15"N

N W E S

AD_KG_RD2_23

RAIDAK2 RIVER

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.175 0.35 0.7 1.05 1.40

Kilometers

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_23

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 34' 7.579" N	89° 48' 28.756" E	27	26° 33' 20.532" N	89° 48' 33.266" E
2	26° 34' 6.429" N	89° 48' 29.685" E	28	26° 33' 18.798" N	89° 48' 30.548" E
3	26° 34' 8.918" N	89° 48' 30.344" E	29	26° 33' 18.226" N	89° 48' 28.164" E
4	26° 34' 8.093" N	89° 48' 32.984" E	30	26° 33' 18.174" N	89° 48' 27.982" E
5	26° 34' 7.223" N	89° 48' 33.268" E	31	26° 33' 18.337" N	89° 48' 26.778" E
6	26° 34' 6.791" N	89° 48' 34.251" E	32	26° 33' 18.500" N	89° 48' 24.730" E
7	26° 34' 6.025" N	89° 48' 34.768" E	33	26° 33' 19.697" N	89° 48' 23.307" E
8	26° 33' 59.564" N	89° 48' 35.033" E	34	26° 33' 21.337" N	89° 48' 23.805" E
9	26° 33' 56.757" N	89° 48' 37.131" E	35	26° 33' 18.713" N	89° 48' 20.391" E
10	26° 33' 51.188" N	89° 48' 37.148" E	36	26° 33' 16.846" N	89° 48' 17.962" E
11	26° 33' 49.889" N	89° 48' 36.734" E	37	26° 33' 15.568" N	89° 48' 17.303" E
12	26° 33' 47.707" N	89° 48' 34.741" E	38	26° 33' 15.980" N	89° 48' 15.321" E
13	26° 33' 45.774" N	89° 48' 31.059" E	39	26° 33' 19.591" N	89° 48' 14.742" E
14	26° 33' 44.569" N	89° 48' 31.100" E	40	26° 33' 23.675" N	89° 48' 13.312" E
15	26° 33' 41.825" N	89° 48' 30.803" E	41	26° 33' 24.085" N	89° 48' 13.250" E
16	26° 33' 41.144" N	89° 48' 30.481" E	42	26° 33' 26.204" N	89° 48' 15.030" E
17	26° 33' 40.133" N	89° 48' 29.462" E	43	26° 33' 30.663" N	89° 48' 15.884" E
18	26° 33' 35.890" N	89° 48' 28.441" E	44	26° 33' 31.825" N	89° 48' 16.512" E
19	26° 33' 33.204" N	89° 48' 28.682" E	45	26° 33' 37.785" N	89° 48' 19.732" E
20	26° 33' 32.016" N	89° 48' 29.647" E	46	26° 33' 46.591" N	89° 48' 21.035" E
21	26° 33' 32.188" N	89° 48' 31.409" E	47	26° 33' 55.000" N	89° 48' 22.411" E
22	26° 33' 31.678" N	89° 48' 32.849" E	48	26° 34' 2.307" N	89° 48' 22.847" E
23	26° 33' 29.580" N	89° 48' 34.633" E	49	26° 34' 6.600" N	89° 48' 22.560" E
24	26° 33' 27.082" N	89° 48' 35.795" E	50	26° 34' 8.395" N	89° 48' 23.513" E
25	26° 33' 24.876" N	89° 48' 36.124" E	51	26° 34' 13.202" N	89° 48' 25.898" E
26	26° 33' 23.098" N	89° 48' 35.622" E	52	26° 34' 12.031" N	89° 48' 26.112" E

POTENTIAL BLOCK AD_KG_RD2_24 OF RAIDAK2 RIVER

89°48'30"E 89°48'45"E 89°49'0"E 89°49'15"E

26°33'45"N

26°33'30"N

AD_KG_RD2_24

RAIDAK2 RIVER

N W E S

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

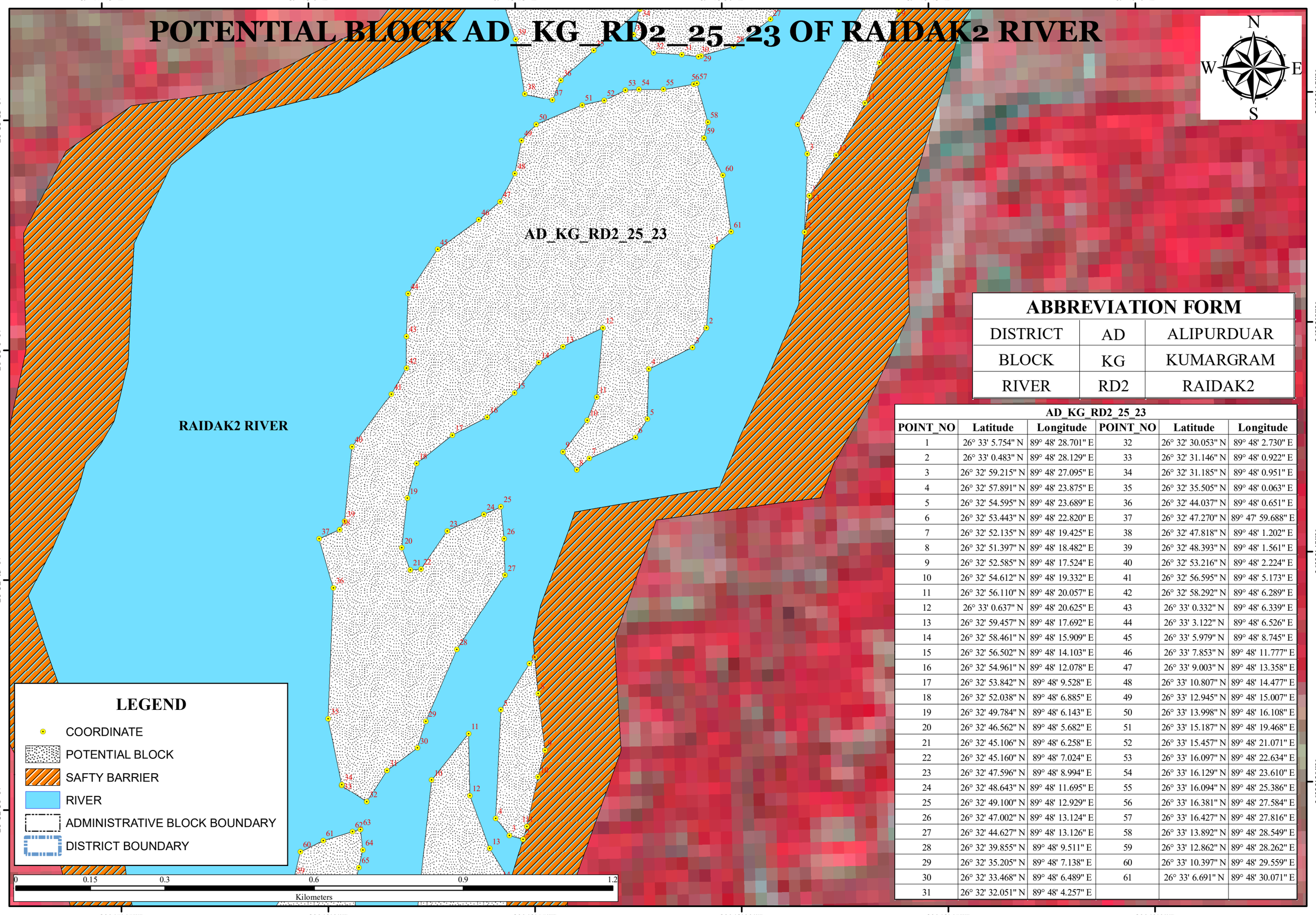
0 0.075 0.15 0.3 0.45 0.6

Kilometers

AD_KG_RD2_24

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 33' 48.083" N	89° 48' 43.781" E	16	26° 33' 25.086" N	89° 48' 37.446" E
2	26° 33' 47.015" N	89° 48' 45.435" E	17	26° 33' 26.552" N	89° 48' 37.195" E
3	26° 33' 46.915" N	89° 48' 50.498" E	18	26° 33' 28.791" N	89° 48' 37.194" E
4	26° 33' 48.117" N	89° 48' 54.876" E	19	26° 33' 30.514" N	89° 48' 36.949" E
5	26° 33' 52.319" N	89° 48' 59.709" E	20	26° 33' 33.188" N	89° 48' 36.441" E
6	26° 33' 53.405" N	89° 49' 1.265" E	21	26° 33' 34.574" N	89° 48' 35.902" E
7	26° 33' 53.254" N	89° 49' 1.935" E	22	26° 33' 35.112" N	89° 48' 34.768" E
8	26° 33' 49.280" N	89° 49' 0.465" E	23	26° 33' 34.986" N	89° 48' 32.471" E
9	26° 33' 45.706" N	89° 48' 58.880" E	24	26° 33' 37.583" N	89° 48' 31.484" E
10	26° 33' 39.105" N	89° 48' 55.953" E	25	26° 33' 40.117" N	89° 48' 33.743" E
11	26° 33' 33.819" N	89° 48' 51.927" E	26	26° 33' 46.026" N	89° 48' 39.144" E
12	26° 33' 32.438" N	89° 48' 50.248" E	27	26° 33' 48.104" N	89° 48' 39.902" E
13	26° 33' 32.137" N	89° 48' 46.163" E	28	26° 33' 53.319" N	89° 48' 39.569" E
14	26° 33' 29.857" N	89° 48' 44.101" E	29	26° 33' 54.233" N	89° 48' 41.120" E
15	26° 33' 27.278" N	89° 48' 39.833" E	30	26° 33' 49.474" N	89° 48' 42.955" E

POTENTIAL BLOCK AD_KG_RD2_25_23 OF RAIDAK2 RIVER



ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_25_23

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 33' 5.754" N	89° 48' 28.701" E	32	26° 32' 30.053" N	89° 48' 2.730" E
2	26° 33' 0.483" N	89° 48' 28.129" E	33	26° 32' 31.146" N	89° 48' 0.922" E
3	26° 32' 59.215" N	89° 48' 27.095" E	34	26° 32' 31.185" N	89° 48' 0.951" E
4	26° 32' 57.891" N	89° 48' 23.875" E	35	26° 32' 35.505" N	89° 48' 0.063" E
5	26° 32' 54.595" N	89° 48' 23.689" E	36	26° 32' 44.037" N	89° 48' 0.651" E
6	26° 32' 53.443" N	89° 48' 22.820" E	37	26° 32' 47.270" N	89° 47' 59.688" E
7	26° 32' 52.135" N	89° 48' 19.425" E	38	26° 32' 47.818" N	89° 48' 1.202" E
8	26° 32' 51.397" N	89° 48' 18.482" E	39	26° 32' 48.393" N	89° 48' 1.561" E
9	26° 32' 52.585" N	89° 48' 17.524" E	40	26° 32' 53.216" N	89° 48' 2.224" E
10	26° 32' 54.612" N	89° 48' 19.332" E	41	26° 32' 56.595" N	89° 48' 5.173" E
11	26° 32' 56.110" N	89° 48' 20.057" E	42	26° 32' 58.292" N	89° 48' 6.289" E
12	26° 33' 0.637" N	89° 48' 20.625" E	43	26° 33' 0.332" N	89° 48' 6.339" E
13	26° 32' 59.457" N	89° 48' 17.692" E	44	26° 33' 3.122" N	89° 48' 6.526" E
14	26° 32' 58.461" N	89° 48' 15.909" E	45	26° 33' 5.979" N	89° 48' 8.745" E
15	26° 32' 56.502" N	89° 48' 14.103" E	46	26° 33' 7.853" N	89° 48' 11.777" E
16	26° 32' 54.961" N	89° 48' 12.078" E	47	26° 33' 9.003" N	89° 48' 13.358" E
17	26° 32' 53.842" N	89° 48' 9.528" E	48	26° 33' 10.807" N	89° 48' 14.477" E
18	26° 32' 52.038" N	89° 48' 6.885" E	49	26° 33' 12.945" N	89° 48' 15.007" E
19	26° 32' 49.784" N	89° 48' 6.143" E	50	26° 33' 13.998" N	89° 48' 16.108" E
20	26° 32' 46.562" N	89° 48' 5.682" E	51	26° 33' 15.187" N	89° 48' 19.468" E
21	26° 32' 45.106" N	89° 48' 6.258" E	52	26° 33' 15.457" N	89° 48' 21.071" E
22	26° 32' 45.160" N	89° 48' 7.024" E	53	26° 33' 16.097" N	89° 48' 22.634" E
23	26° 32' 47.596" N	89° 48' 8.994" E	54	26° 33' 16.129" N	89° 48' 23.610" E
24	26° 32' 48.643" N	89° 48' 11.695" E	55	26° 33' 16.094" N	89° 48' 25.386" E
25	26° 32' 49.100" N	89° 48' 12.929" E	56	26° 33' 16.381" N	89° 48' 27.584" E
26	26° 32' 47.002" N	89° 48' 13.124" E	57	26° 33' 16.427" N	89° 48' 27.816" E
27	26° 32' 44.627" N	89° 48' 13.126" E	58	26° 33' 13.892" N	89° 48' 28.549" E
28	26° 32' 39.855" N	89° 48' 9.511" E	59	26° 33' 12.862" N	89° 48' 28.262" E
29	26° 32' 35.205" N	89° 48' 7.138" E	60	26° 33' 10.397" N	89° 48' 29.559" E
30	26° 32' 33.468" N	89° 48' 6.489" E	61	26° 33' 6.691" N	89° 48' 30.071" E
31	26° 32' 32.051" N	89° 48' 4.257" E			

POTENTIAL BLOCK AD_KG_RD2_26 OF RAIDAK2 RIVER

89°48'30"E 89°48'45"E 89°49'0"E

26°33'30"N

26°33'15"N

RAIDAK2 RIVER

AD_KG_RD2_26

N W E S

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_26		
POINT_NO	Latitude	Longitude
1	26° 33' 8.941" N	89° 48' 35.804" E
2	26° 33' 6.579" N	89° 48' 35.402" E
3	26° 33' 11.678" N	89° 48' 35.712" E
4	26° 33' 13.621" N	89° 48' 35.071" E
5	26° 33' 21.171" N	89° 48' 40.066" E
6	26° 33' 28.690" N	89° 48' 46.652" E
7	26° 33' 29.468" N	89° 48' 48.660" E
8	26° 33' 25.322" N	89° 48' 45.614" E
9	26° 33' 20.951" N	89° 48' 42.597" E
10	26° 33' 17.505" N	89° 48' 41.115" E
11	26° 33' 14.897" N	89° 48' 39.994" E
12	26° 33' 11.554" N	89° 48' 37.824" E

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.05 0.1 0.2 0.3 0.4

Kilometers

POTENTIAL BLOCK AD_KG_RD2_27 OF RAIDAK2 RIVER

89°48'15"E

89°48'30"E

26°32'30"N

N

W

E

S

AD_KG_RD2_27

RAIDAK2 RIVER

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_27

POINT_NO	Latitude	Longitude
1	26° 32' 28.187" N	89° 48' 14.300" E
2	26° 32' 27.378" N	89° 48' 14.005" E
3	26° 32' 27.648" N	89° 48' 13.019" E
4	26° 32' 28.767" N	89° 48' 12.053" E
5	26° 32' 35.837" N	89° 48' 12.607" E
6	26° 32' 38.820" N	89° 48' 14.743" E
7	26° 32' 39.237" N	89° 48' 15.142" E
8	26° 32' 36.853" N	89° 48' 15.328" E
9	26° 32' 33.130" N	89° 48' 15.747" E
10	26° 32' 31.407" N	89° 48' 15.183" E

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.045 0.09 0.18 0.27 0.36

Kilometers

POTENTIAL BLOCK AD_KG_RD2_28 OF RAIDAK2 RIVER

89°48'0"E 89°48'15"E

26°32'30"N

26°32'15"N

AD_KG_RD2_28

RAIDAK2 RIVER

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_28		
POINT_NO	Latitude	Longitude
1	26° 32' 15.056" N	89° 48' 11.094" E
2	26° 32' 14.338" N	89° 48' 10.100" E
3	26° 32' 14.985" N	89° 48' 9.518" E
4	26° 32' 15.962" N	89° 48' 8.777" E
5	26° 32' 16.734" N	89° 48' 7.955" E
6	26° 32' 17.505" N	89° 48' 7.210" E
7	26° 32' 19.580" N	89° 48' 6.572" E
8	26° 32' 21.477" N	89° 48' 5.890" E
9	26° 32' 22.714" N	89° 48' 6.216" E
10	26° 32' 31.370" N	89° 48' 7.478" E
11	26° 32' 34.324" N	89° 48' 10.225" E
12	26° 32' 30.284" N	89° 48' 10.222" E
13	26° 32' 26.820" N	89° 48' 11.571" E
14	26° 32' 24.625" N	89° 48' 13.001" E
15	26° 32' 24.134" N	89° 48' 12.822" E
16	26° 32' 21.578" N	89° 48' 12.564" E
17	26° 32' 20.766" N	89° 48' 12.525" E
18	26° 32' 19.272" N	89° 48' 12.454" E
19	26° 32' 18.963" N	89° 48' 12.509" E

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.05 0.1 0.2 0.3 0.4

Kilometers

N W E S

POTENTIAL BLOCK AD_KG_RD2_29 OF RAIDAK2 RIVER

89°48'10"E 89°48'12"E 89°48'14"E 89°48'16"E

26°32'14"N 26°32'12"N 26°32'10"N

AD_KG_RD2_29

RAIDAK2 RIVER

N W E S

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_29

POINT_NO	Latitude	Longitude
1	26° 32' 11.617" N	89° 48' 13.163" E
2	26° 32' 9.602" N	89° 48' 12.780" E
3	26° 32' 9.769" N	89° 48' 12.765" E
4	26° 32' 12.318" N	89° 48' 11.959" E
5	26° 32' 13.961" N	89° 48' 13.393" E
6	26° 32' 13.232" N	89° 48' 13.522" E

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.0125 0.025 0.05 0.075 0.1

Kilometers

POTENTIAL BLOCK AD_KG_RD2_30 OF RAIDAK2 RIVER

89°47'30"E 89°47'45"E 89°48'0"E 89°48'15"E

26°32'15"N 26°32'0"N

N W E S

RAIDAK2 RIVER

AD_KG_RD2_30

AD_KG_RD2_30		
POINT_NO	Latitude	Longitude
1	26° 31' 52.546" N	89° 47' 50.823" E
2	26° 31' 52.440" N	89° 47' 50.742" E
3	26° 31' 54.368" N	89° 47' 50.294" E
4	26° 31' 57.072" N	89° 47' 49.654" E
5	26° 32' 1.027" N	89° 47' 48.706" E
6	26° 32' 5.939" N	89° 47' 48.244" E
7	26° 32' 8.769" N	89° 47' 47.845" E
8	26° 32' 12.683" N	89° 47' 47.324" E
9	26° 32' 13.799" N	89° 47' 47.209" E
10	26° 32' 13.977" N	89° 47' 47.277" E
11	26° 32' 17.577" N	89° 47' 49.811" E
12	26° 32' 16.917" N	89° 47' 50.350" E
13	26° 32' 9.290" N	89° 47' 50.089" E
14	26° 32' 5.913" N	89° 47' 50.542" E
15	26° 32' 4.314" N	89° 47' 51.420" E
16	26° 32' 2.293" N	89° 47' 52.824" E
17	26° 32' 0.286" N	89° 47' 53.463" E
18	26° 31' 59.597" N	89° 47' 55.170" E
19	26° 31' 59.129" N	89° 47' 55.038" E
20	26° 31' 58.453" N	89° 47' 54.687" E
21	26° 31' 57.251" N	89° 47' 55.129" E
22	26° 31' 55.537" N	89° 47' 54.858" E
23	26° 31' 54.869" N	89° 47' 53.287" E

LEGEND

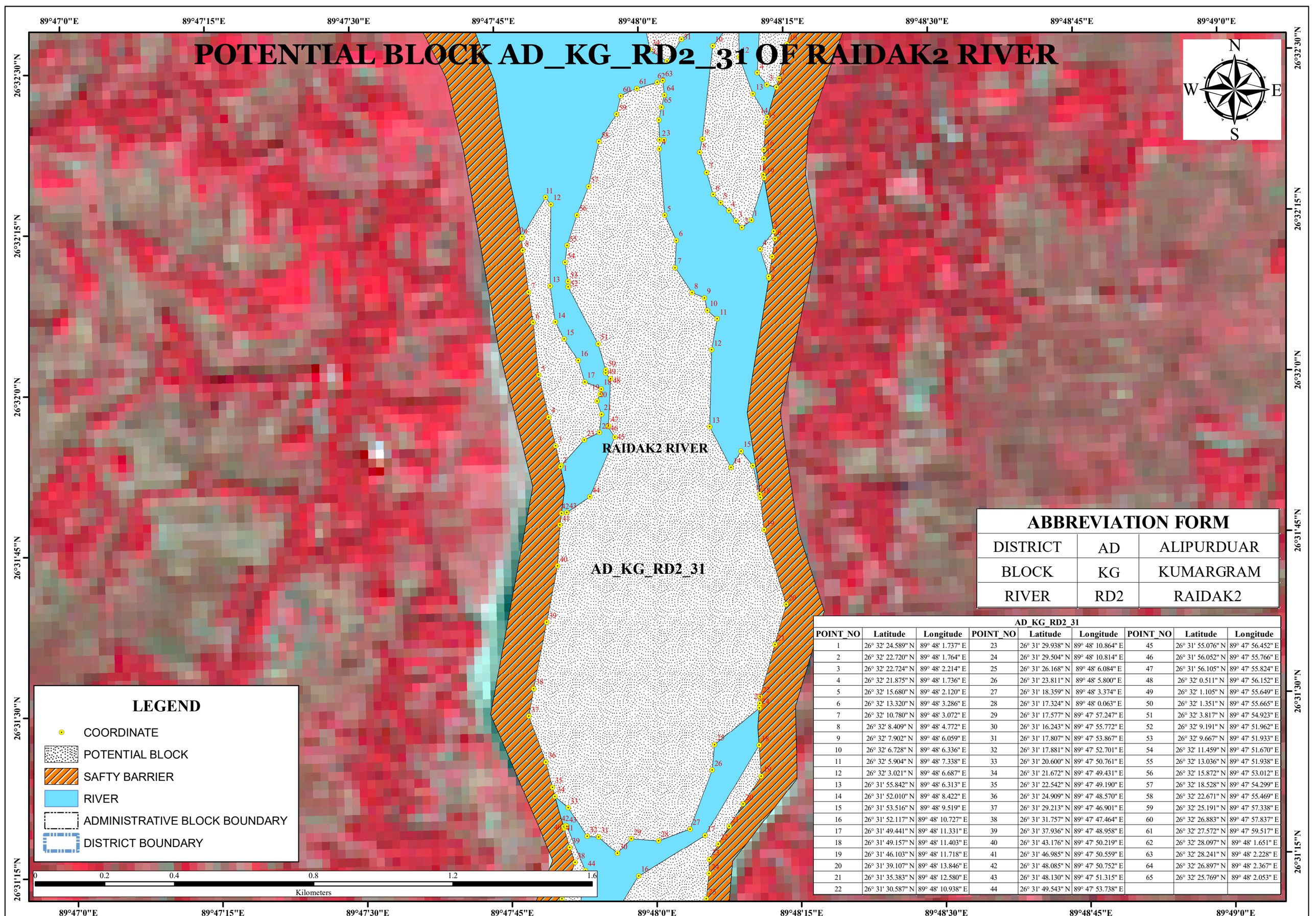
- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.075 0.15 0.3 0.45 0.6

Kilometers

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

POTENTIAL BLOCK AD_KG_RD2_31 OF RAIDAK2 RIVER



LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

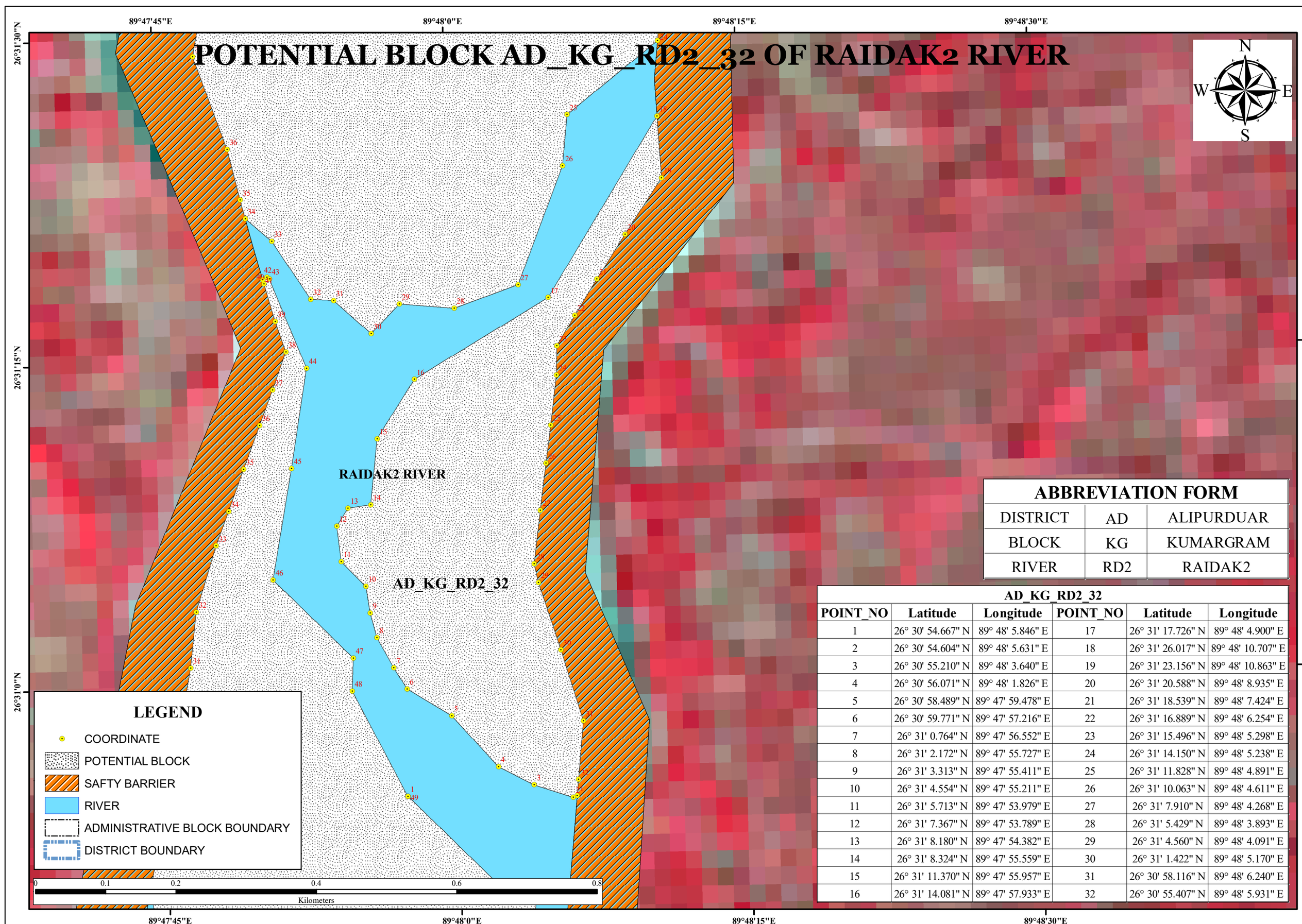
ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_31

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 32' 24.589" N	89° 48' 1.737" E	23	26° 31' 29.938" N	89° 48' 10.864" E	45	26° 31' 55.076" N	89° 47' 56.452" E
2	26° 32' 22.720" N	89° 48' 1.764" E	24	26° 31' 29.504" N	89° 48' 10.814" E	46	26° 31' 56.052" N	89° 47' 55.766" E
3	26° 32' 22.724" N	89° 48' 2.214" E	25	26° 31' 26.168" N	89° 48' 6.084" E	47	26° 31' 56.105" N	89° 47' 55.824" E
4	26° 32' 21.875" N	89° 48' 1.736" E	26	26° 31' 23.811" N	89° 48' 5.800" E	48	26° 32' 0.511" N	89° 47' 56.152" E
5	26° 32' 15.680" N	89° 48' 2.120" E	27	26° 31' 18.359" N	89° 48' 3.374" E	49	26° 32' 1.105" N	89° 47' 55.649" E
6	26° 32' 13.320" N	89° 48' 3.286" E	28	26° 31' 17.324" N	89° 48' 0.063" E	50	26° 32' 1.351" N	89° 47' 55.665" E
7	26° 32' 10.780" N	89° 48' 3.072" E	29	26° 31' 17.577" N	89° 47' 57.247" E	51	26° 32' 3.817" N	89° 47' 54.923" E
8	26° 32' 8.409" N	89° 48' 4.772" E	30	26° 31' 16.243" N	89° 47' 55.772" E	52	26° 32' 9.191" N	89° 47' 51.962" E
9	26° 32' 7.902" N	89° 48' 6.059" E	31	26° 31' 17.807" N	89° 47' 53.867" E	53	26° 32' 9.667" N	89° 47' 51.933" E
10	26° 32' 6.728" N	89° 48' 6.336" E	32	26° 31' 17.881" N	89° 47' 52.701" E	54	26° 32' 11.459" N	89° 47' 51.670" E
11	26° 32' 5.904" N	89° 48' 7.338" E	33	26° 31' 20.600" N	89° 47' 50.761" E	55	26° 32' 13.036" N	89° 47' 51.938" E
12	26° 32' 3.021" N	89° 48' 6.687" E	34	26° 31' 21.672" N	89° 47' 49.431" E	56	26° 32' 15.872" N	89° 47' 53.012" E
13	26° 31' 55.842" N	89° 48' 6.313" E	35	26° 31' 22.542" N	89° 47' 49.190" E	57	26° 32' 18.528" N	89° 47' 54.299" E
14	26° 31' 52.010" N	89° 48' 8.422" E	36	26° 31' 24.909" N	89° 47' 48.570" E	58	26° 32' 22.671" N	89° 47' 55.469" E
15	26° 31' 53.516" N	89° 48' 9.519" E	37	26° 31' 29.213" N	89° 47' 46.901" E	59	26° 32' 25.191" N	89° 47' 57.338" E
16	26° 31' 52.117" N	89° 48' 10.727" E	38	26° 31' 31.757" N	89° 47' 47.464" E	60	26° 32' 26.883" N	89° 47' 57.837" E
17	26° 31' 49.441" N	89° 48' 11.331" E	39	26° 31' 37.936" N	89° 47' 48.958" E	61	26° 32' 27.572" N	89° 47' 59.517" E
18	26° 31' 49.157" N	89° 48' 11.403" E	40	26° 31' 43.176" N	89° 47' 50.219" E	62	26° 32' 28.097" N	89° 48' 1.651" E
19	26° 31' 46.103" N	89° 48' 11.718" E	41	26° 31' 46.985" N	89° 47' 50.559" E	63	26° 32' 28.241" N	89° 48' 2.228" E
20	26° 31' 39.107" N	89° 48' 13.846" E	42	26° 31' 48.085" N	89° 47' 50.752" E	64	26° 32' 26.897" N	89° 48' 2.367" E
21	26° 31' 35.383" N	89° 48' 12.580" E	43	26° 31' 48.130" N	89° 47' 51.315" E	65	26° 32' 25.769" N	89° 48' 2.053" E
22	26° 31' 30.587" N	89° 48' 10.938" E	44	26° 31' 49.543" N	89° 47' 53.738" E			

POTENTIAL BLOCK AD_KG_RD2_32 OF RAIDAK2 RIVER



LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_32

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 30' 54.667" N	89° 48' 5.846" E	17	26° 31' 17.726" N	89° 48' 4.900" E
2	26° 30' 54.604" N	89° 48' 5.631" E	18	26° 31' 26.017" N	89° 48' 10.707" E
3	26° 30' 55.210" N	89° 48' 3.640" E	19	26° 31' 23.156" N	89° 48' 10.863" E
4	26° 30' 56.071" N	89° 48' 1.826" E	20	26° 31' 20.588" N	89° 48' 8.935" E
5	26° 30' 58.489" N	89° 47' 59.478" E	21	26° 31' 18.539" N	89° 48' 7.424" E
6	26° 30' 59.771" N	89° 47' 57.216" E	22	26° 31' 16.889" N	89° 48' 6.254" E
7	26° 31' 0.764" N	89° 47' 56.552" E	23	26° 31' 15.496" N	89° 48' 5.298" E
8	26° 31' 2.172" N	89° 47' 55.727" E	24	26° 31' 14.150" N	89° 48' 5.238" E
9	26° 31' 3.313" N	89° 47' 55.411" E	25	26° 31' 11.828" N	89° 48' 4.891" E
10	26° 31' 4.554" N	89° 47' 55.211" E	26	26° 31' 10.063" N	89° 48' 4.611" E
11	26° 31' 5.713" N	89° 47' 53.979" E	27	26° 31' 7.910" N	89° 48' 4.268" E
12	26° 31' 7.367" N	89° 47' 53.789" E	28	26° 31' 5.429" N	89° 48' 3.893" E
13	26° 31' 8.180" N	89° 47' 54.382" E	29	26° 31' 4.560" N	89° 48' 4.091" E
14	26° 31' 8.324" N	89° 47' 55.559" E	30	26° 31' 1.422" N	89° 48' 5.170" E
15	26° 31' 11.370" N	89° 47' 55.957" E	31	26° 30' 58.116" N	89° 48' 6.240" E
16	26° 31' 14.081" N	89° 47' 57.933" E	32	26° 30' 55.407" N	89° 48' 5.931" E

POTENTIAL BLOCK AD_KG_RD2_33 OF RAIDAK2 RIVER

89°47'0"E 89°47'15"E 89°47'30"E 89°47'45"E 89°48'0"E 89°48'15"E 89°48'30"E 89°48'45"E 89°49'0"E

26°31'15"N 26°31'0"N 26°30'45"N 26°30'30"N 26°30'15"N

N W E S

RAIDAK2 RIVER

AD_KG_RD2_33

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.175 0.35 0.7 1.05 1.4

Kilometers

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_33

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 30' 54.810" N	89° 47' 57.145" E	17	26° 30' 27.158" N	89° 47' 41.471" E	33	26° 31' 6.572" N	89° 47' 47.570" E
2	26° 30' 49.936" N	89° 48' 2.472" E	18	26° 30' 30.103" N	89° 47' 41.325" E	34	26° 31' 8.152" N	89° 47' 48.244" E
3	26° 30' 50.050" N	89° 48' 3.652" E	19	26° 30' 33.394" N	89° 47' 41.266" E	35	26° 31' 10.085" N	89° 47' 49.060" E
4	26° 30' 44.763" N	89° 48' 2.953" E	20	26° 30' 37.127" N	89° 47' 41.213" E	36	26° 31' 12.099" N	89° 47' 49.933" E
5	26° 30' 36.767" N	89° 47' 58.747" E	21	26° 30' 39.446" N	89° 47' 41.180" E	37	26° 31' 13.733" N	89° 47' 50.641" E
6	26° 30' 30.989" N	89° 47' 55.359" E	22	26° 30' 42.585" N	89° 47' 41.931" E	38	26° 31' 15.465" N	89° 47' 51.366" E
7	26° 30' 26.231" N	89° 47' 52.569" E	23	26° 30' 42.920" N	89° 47' 42.011" E	39	26° 31' 16.887" N	89° 47' 50.850" E
8	26° 30' 26.303" N	89° 47' 52.554" E	24	26° 30' 46.019" N	89° 47' 42.732" E	40	26° 31' 18.645" N	89° 47' 50.315" E
9	26° 30' 19.221" N	89° 47' 50.680" E	25	26° 30' 49.009" N	89° 47' 43.425" E	41	26° 31' 18.841" N	89° 47' 50.256" E
10	26° 30' 13.914" N	89° 47' 49.596" E	26	26° 30' 48.577" N	89° 47' 44.166" E	42	26° 31' 18.957" N	89° 47' 50.478" E
11	26° 30' 17.597" N	89° 47' 45.864" E	27	26° 30' 50.765" N	89° 47' 43.826" E	43	26° 31' 18.866" N	89° 47' 50.598" E
12	26° 30' 17.606" N	89° 47' 45.858" E	28	26° 30' 52.034" N	89° 47' 44.113" E	44	26° 31' 14.706" N	89° 47' 52.407" E
13	26° 30' 17.777" N	89° 47' 45.834" E	29	26° 30' 55.562" N	89° 47' 44.911" E	45	26° 31' 10.082" N	89° 47' 51.531" E
14	26° 30' 20.166" N	89° 47' 44.723" E	30	26° 30' 58.715" N	89° 47' 45.635" E	46	26° 31' 4.947" N	89° 47' 50.451" E
15	26° 30' 23.000" N	89° 47' 43.399" E	31	26° 31' 0.942" N	89° 47' 46.114" E	47	26° 31' 1.248" N	89° 47' 54.488" E
16	26° 30' 25.401" N	89° 47' 42.279" E	32	26° 31' 3.531" N	89° 47' 46.472" E	48	26° 30' 59.720" N	89° 47' 54.399" E

POTENTIAL BLOCK AD_KG_RD2_34 OF RAIDAK2 RIVER

89°47'50"E 89°47'55"E 89°48'0"E 89°48'5"E 89°48'10"E

26°30'30"N 26°30'25"N 26°30'20"N

N W E S

RAIDAK2 RIVER

AD_KG_RD2_34

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_34

POINT_NO	Latitude	Longitude
1	26° 30' 20.260" N	89° 47' 56.303" E
2	26° 30' 19.996" N	89° 47' 55.841" E
3	26° 30' 21.297" N	89° 47' 55.824" E
4	26° 30' 23.091" N	89° 47' 56.345" E
5	26° 30' 25.324" N	89° 47' 56.296" E
6	26° 30' 30.998" N	89° 48' 0.957" E
7	26° 30' 32.301" N	89° 48' 1.722" E
8	26° 30' 32.246" N	89° 48' 2.777" E
9	26° 30' 30.476" N	89° 48' 3.664" E
10	26° 30' 26.680" N	89° 48' 1.999" E
11	26° 30' 22.942" N	89° 47' 59.807" E

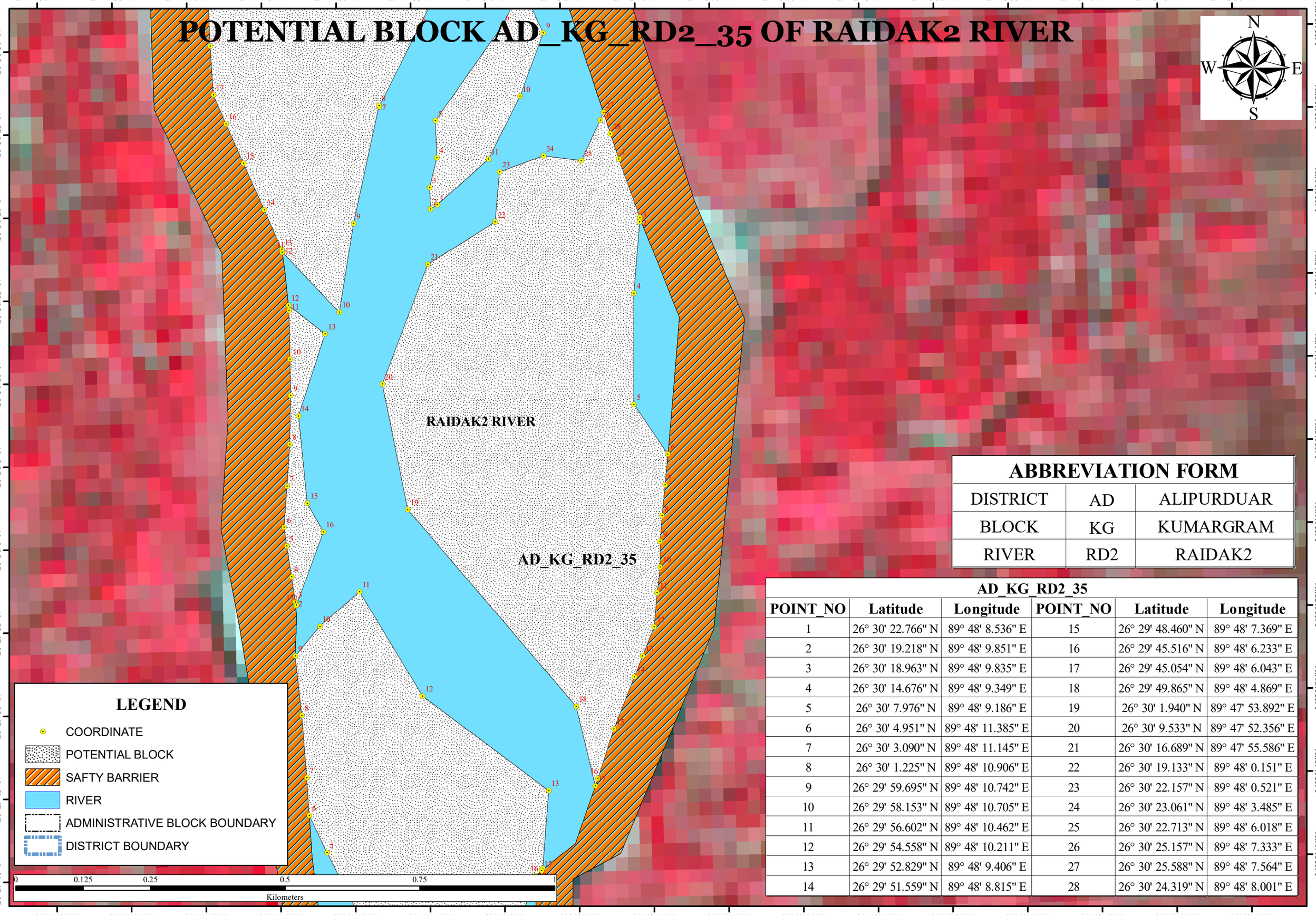
LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.0375 0.075 0.15 0.225 0.3

Kilometers

POTENTIAL BLOCK AD_KG_RD2_35 OF RAIDAK2 RIVER



LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.125 0.25 0.5 0.75 1
Kilometers

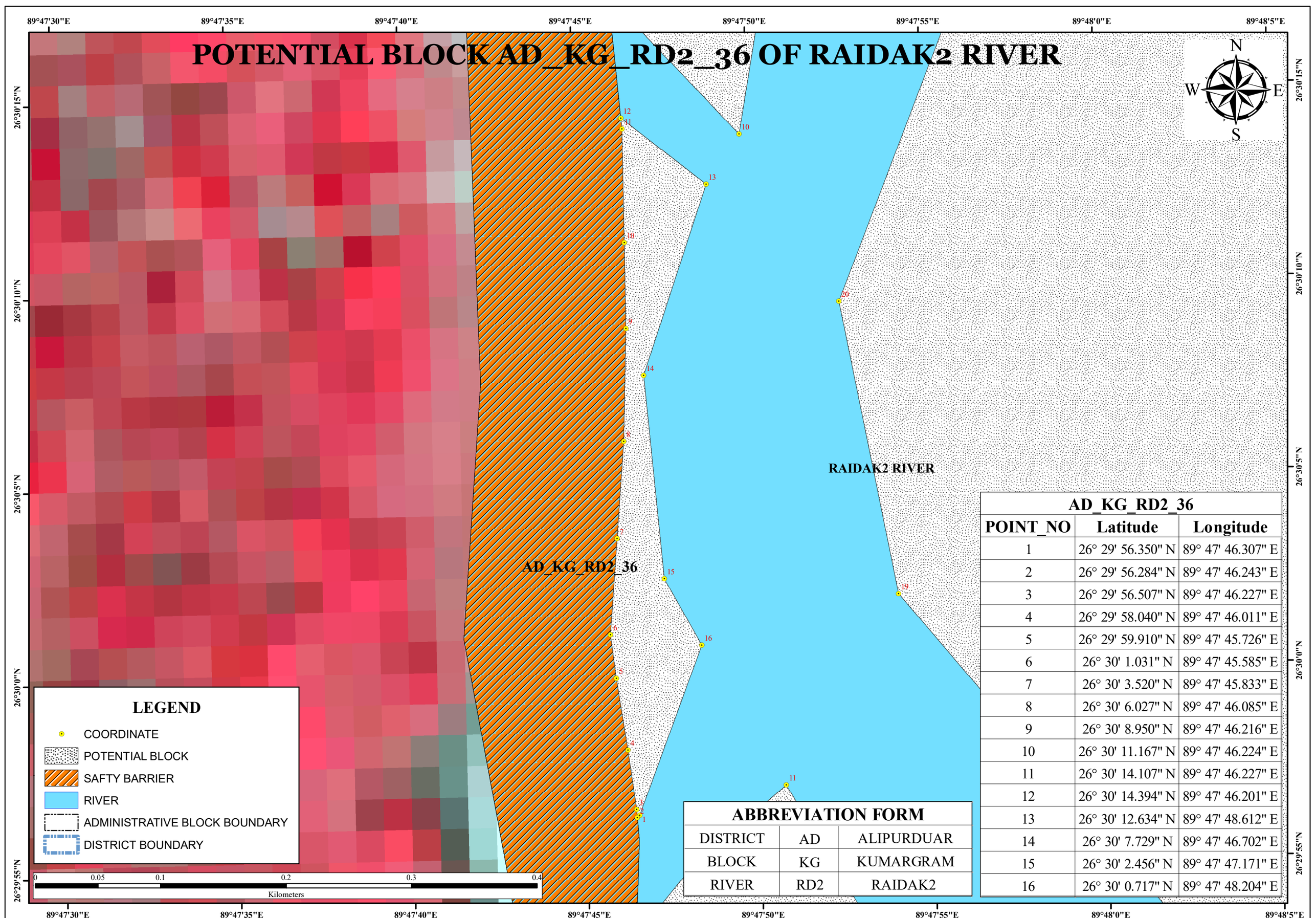
ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_35

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 30' 22.766" N	89° 48' 8.536" E	15	26° 29' 48.460" N	89° 48' 7.369" E
2	26° 30' 19.218" N	89° 48' 9.851" E	16	26° 29' 45.516" N	89° 48' 6.233" E
3	26° 30' 18.963" N	89° 48' 9.835" E	17	26° 29' 45.054" N	89° 48' 6.043" E
4	26° 30' 14.676" N	89° 48' 9.349" E	18	26° 29' 49.865" N	89° 48' 4.869" E
5	26° 30' 7.976" N	89° 48' 9.186" E	19	26° 30' 1.940" N	89° 47' 53.892" E
6	26° 30' 4.951" N	89° 48' 11.385" E	20	26° 30' 9.533" N	89° 47' 52.356" E
7	26° 30' 3.090" N	89° 48' 11.145" E	21	26° 30' 16.689" N	89° 47' 55.586" E
8	26° 30' 1.225" N	89° 48' 10.906" E	22	26° 30' 19.133" N	89° 48' 0.151" E
9	26° 29' 59.695" N	89° 48' 10.742" E	23	26° 30' 22.157" N	89° 48' 0.521" E
10	26° 29' 58.153" N	89° 48' 10.705" E	24	26° 30' 23.061" N	89° 48' 3.485" E
11	26° 29' 56.602" N	89° 48' 10.462" E	25	26° 30' 22.713" N	89° 48' 6.018" E
12	26° 29' 54.558" N	89° 48' 10.211" E	26	26° 30' 25.157" N	89° 48' 7.333" E
13	26° 29' 52.829" N	89° 48' 9.406" E	27	26° 30' 25.588" N	89° 48' 7.564" E
14	26° 29' 51.559" N	89° 48' 8.815" E	28	26° 30' 24.319" N	89° 48' 8.001" E

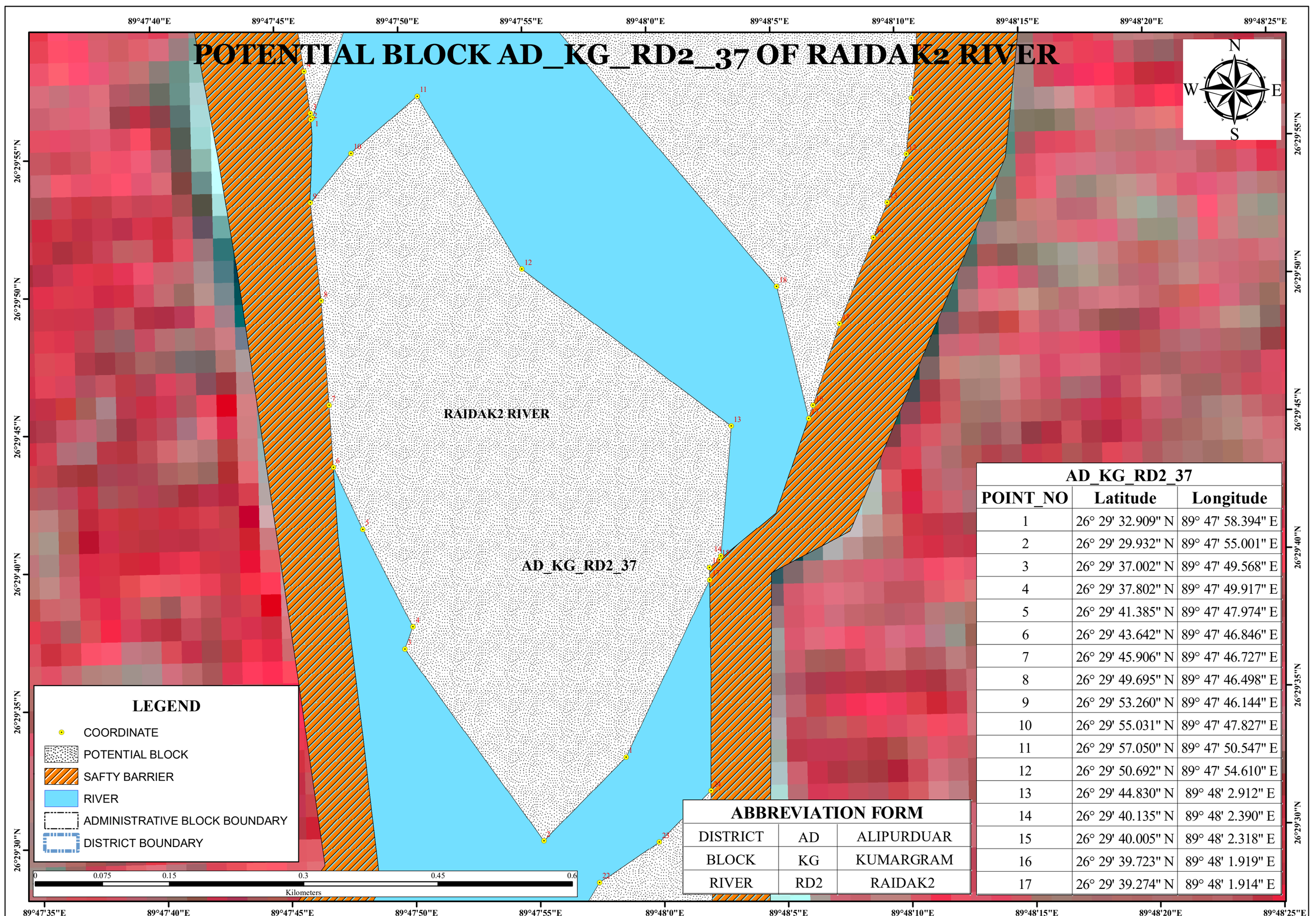
POTENTIAL BLOCK AD_KG_RD2_36 OF RAIDAK2 RIVER



ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_36		
POINT_NO	Latitude	Longitude
1	26° 29' 56.350" N	89° 47' 46.307" E
2	26° 29' 56.284" N	89° 47' 46.243" E
3	26° 29' 56.507" N	89° 47' 46.227" E
4	26° 29' 58.040" N	89° 47' 46.011" E
5	26° 29' 59.910" N	89° 47' 45.726" E
6	26° 30' 1.031" N	89° 47' 45.585" E
7	26° 30' 3.520" N	89° 47' 45.833" E
8	26° 30' 6.027" N	89° 47' 46.085" E
9	26° 30' 8.950" N	89° 47' 46.216" E
10	26° 30' 11.167" N	89° 47' 46.224" E
11	26° 30' 14.107" N	89° 47' 46.227" E
12	26° 30' 14.394" N	89° 47' 46.201" E
13	26° 30' 12.634" N	89° 47' 48.612" E
14	26° 30' 7.729" N	89° 47' 46.702" E
15	26° 30' 2.456" N	89° 47' 47.171" E
16	26° 30' 0.717" N	89° 47' 48.204" E

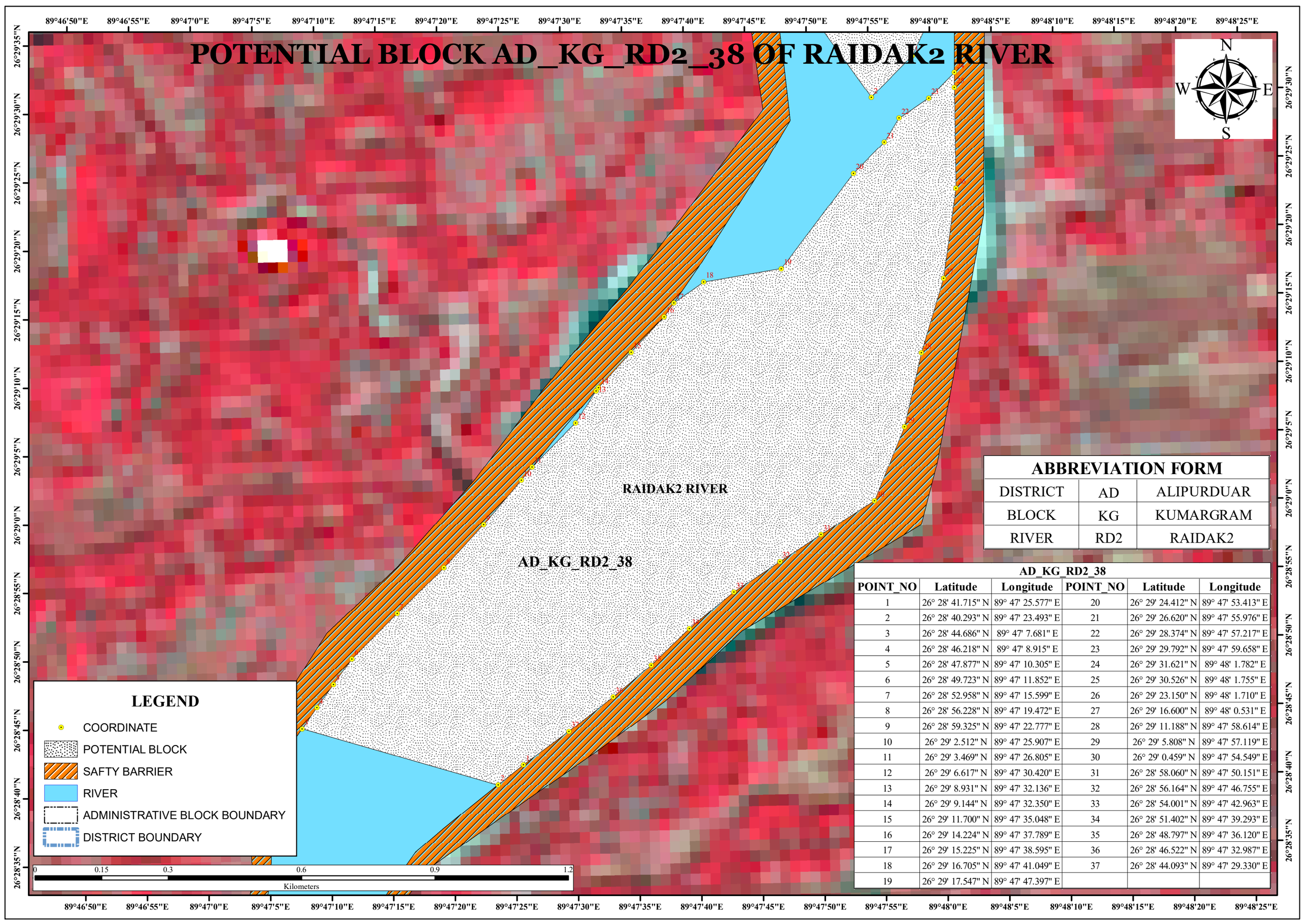
POTENTIAL BLOCK AD_KG_RD2_37 OF RAIDAK2 RIVER



AD_KG_RD2_37		
POINT_NO	Latitude	Longitude
1	26° 29' 32.909" N	89° 47' 58.394" E
2	26° 29' 29.932" N	89° 47' 55.001" E
3	26° 29' 37.002" N	89° 47' 49.568" E
4	26° 29' 37.802" N	89° 47' 49.917" E
5	26° 29' 41.385" N	89° 47' 47.974" E
6	26° 29' 43.642" N	89° 47' 46.846" E
7	26° 29' 45.906" N	89° 47' 46.727" E
8	26° 29' 49.695" N	89° 47' 46.498" E
9	26° 29' 53.260" N	89° 47' 46.144" E
10	26° 29' 55.031" N	89° 47' 47.827" E
11	26° 29' 57.050" N	89° 47' 50.547" E
12	26° 29' 50.692" N	89° 47' 54.610" E
13	26° 29' 44.830" N	89° 48' 2.912" E
14	26° 29' 40.135" N	89° 48' 2.390" E
15	26° 29' 40.005" N	89° 48' 2.318" E
16	26° 29' 39.723" N	89° 48' 1.919" E
17	26° 29' 39.274" N	89° 48' 1.914" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

POTENTIAL BLOCK AD_KG_RD2_38 OF RAIDAK2 RIVER



LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_38

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 28' 41.715" N	89° 47' 25.577" E	20	26° 29' 24.412" N	89° 47' 53.413" E
2	26° 28' 40.293" N	89° 47' 23.493" E	21	26° 29' 26.620" N	89° 47' 55.976" E
3	26° 28' 44.686" N	89° 47' 7.681" E	22	26° 29' 28.374" N	89° 47' 57.217" E
4	26° 28' 46.218" N	89° 47' 8.915" E	23	26° 29' 29.792" N	89° 47' 59.658" E
5	26° 28' 47.877" N	89° 47' 10.305" E	24	26° 29' 31.621" N	89° 48' 1.782" E
6	26° 28' 49.723" N	89° 47' 11.852" E	25	26° 29' 30.526" N	89° 48' 1.755" E
7	26° 28' 52.958" N	89° 47' 15.599" E	26	26° 29' 23.150" N	89° 48' 1.710" E
8	26° 28' 56.228" N	89° 47' 19.472" E	27	26° 29' 16.600" N	89° 48' 0.531" E
9	26° 28' 59.325" N	89° 47' 22.777" E	28	26° 29' 11.188" N	89° 47' 58.614" E
10	26° 29' 2.512" N	89° 47' 25.907" E	29	26° 29' 5.808" N	89° 47' 57.119" E
11	26° 29' 3.469" N	89° 47' 26.805" E	30	26° 29' 0.459" N	89° 47' 54.549" E
12	26° 29' 6.617" N	89° 47' 30.420" E	31	26° 28' 58.060" N	89° 47' 50.151" E
13	26° 29' 8.931" N	89° 47' 32.136" E	32	26° 28' 56.164" N	89° 47' 46.755" E
14	26° 29' 9.144" N	89° 47' 32.350" E	33	26° 28' 54.001" N	89° 47' 42.963" E
15	26° 29' 11.700" N	89° 47' 35.048" E	34	26° 28' 51.402" N	89° 47' 39.293" E
16	26° 29' 14.224" N	89° 47' 37.789" E	35	26° 28' 48.797" N	89° 47' 36.120" E
17	26° 29' 15.225" N	89° 47' 38.595" E	36	26° 28' 46.522" N	89° 47' 32.987" E
18	26° 29' 16.705" N	89° 47' 41.049" E	37	26° 28' 44.093" N	89° 47' 29.330" E
19	26° 29' 17.547" N	89° 47' 47.397" E			

POTENTIAL BLOCK AD_KG_RD2_39 OF RAIDAK2 RIVER

89°46'50"E 89°46'55"E 89°47'0"E 89°47'5"E

26°28'15"N 26°28'10"N 26°28'5"N

N W E S

AD_KG_RD2_39

RAIDAK2 RIVER

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

AD_KG_RD2_39

POINT_NO	Latitude	Longitude
1	26° 28' 4.768" N	89° 46' 55.026" E
2	26° 28' 3.106" N	89° 46' 52.122" E
3	26° 28' 3.785" N	89° 46' 50.348" E
4	26° 28' 6.678" N	89° 46' 50.775" E
5	26° 28' 9.339" N	89° 46' 52.033" E
6	26° 28' 11.801" N	89° 46' 53.697" E
7	26° 28' 9.802" N	89° 46' 58.894" E
8	26° 28' 7.939" N	89° 46' 57.729" E
9	26° 28' 13.367" N	89° 46' 51.357" E
10	26° 28' 10.368" N	89° 46' 48.835" E
11	26° 28' 11.762" N	89° 46' 48.988" E
12	26° 28' 13.590" N	89° 46' 49.701" E
13	26° 28' 14.276" N	89° 46' 50.213" E

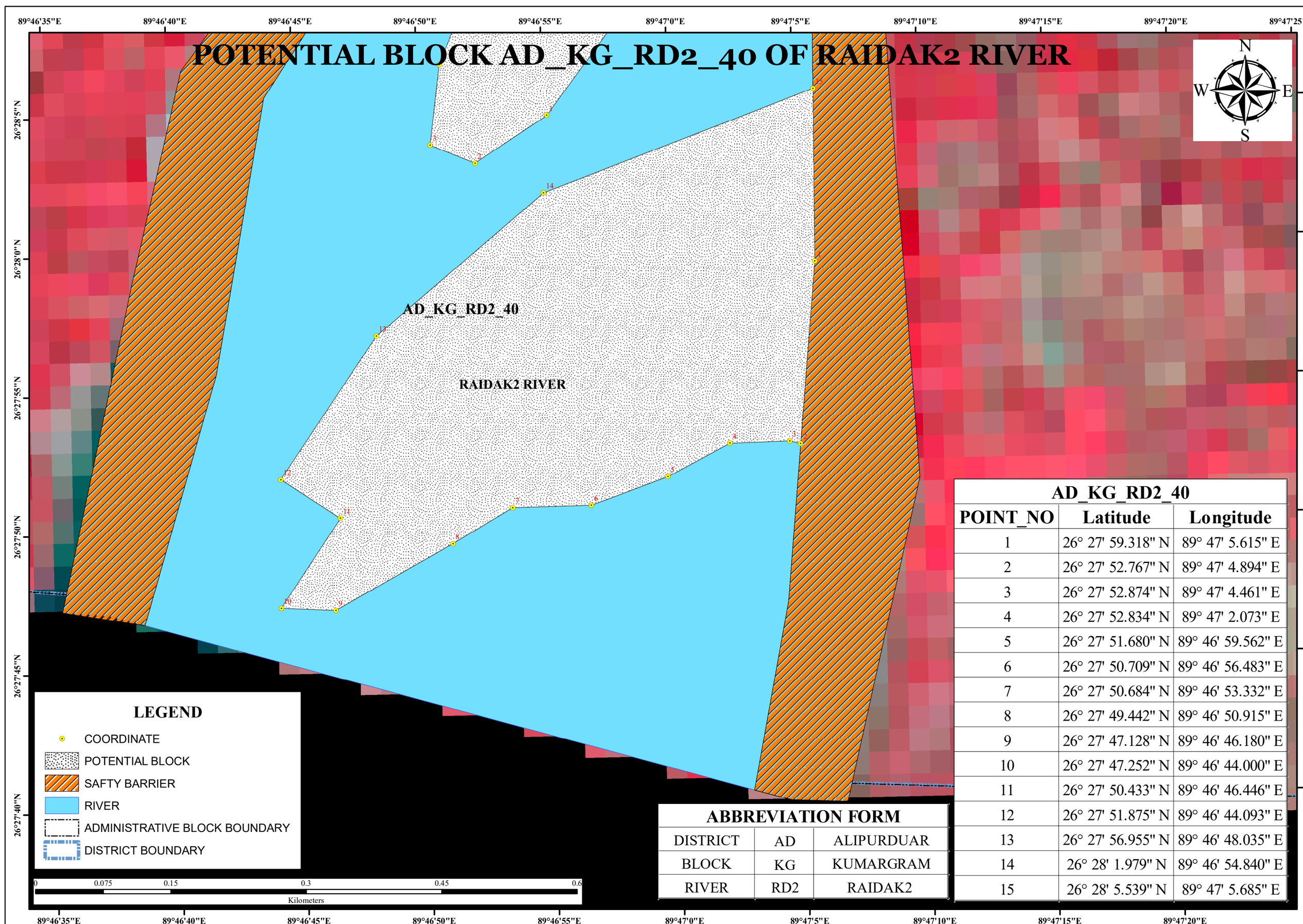
LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.035 0.07 0.14 0.21 0.28

Kilometers

POTENTIAL BLOCK AD_KG_RD2_40 OF RAIDAK2 RIVER



AD_KG_RD2_40		
POINT_NO	Latitude	Longitude
1	26° 27' 59.318" N	89° 47' 5.615" E
2	26° 27' 52.767" N	89° 47' 4.894" E
3	26° 27' 52.874" N	89° 47' 4.461" E
4	26° 27' 52.834" N	89° 47' 2.073" E
5	26° 27' 51.680" N	89° 46' 59.562" E
6	26° 27' 50.709" N	89° 46' 56.483" E
7	26° 27' 50.684" N	89° 46' 53.332" E
8	26° 27' 49.442" N	89° 46' 50.915" E
9	26° 27' 47.128" N	89° 46' 46.180" E
10	26° 27' 47.252" N	89° 46' 44.000" E
11	26° 27' 50.433" N	89° 46' 46.446" E
12	26° 27' 51.875" N	89° 46' 44.093" E
13	26° 27' 56.955" N	89° 46' 48.035" E
14	26° 28' 1.979" N	89° 46' 54.840" E
15	26° 28' 5.539" N	89° 47' 5.685" E

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.075 0.15 0.3 0.45 0.6
Kilometers

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	RD2	RAIDAK2

POTENTIAL BLOCK AD_KG_SK_01 OF SANKOSH RIVER

89°51'45"E

26°36'45"N

SANKOSH RIVER

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	SK	SANKOSH RIVER

AD_KG_SK_01

POINT_NO	LATITUDE	LONGITUDE
1	26° 36' 43.612" N	89° 51' 41.351" E
2	26° 36' 43.283" N	89° 51' 40.145" E
3	26° 36' 45.538" N	89° 51' 40.076" E
4	26° 36' 49.064" N	89° 51' 41.026" E
5	26° 36' 48.130" N	89° 51' 43.224" E
6	26° 36' 46.912" N	89° 51' 42.718" E
7	26° 36' 44.243" N	89° 51' 41.611" E

0 0.0175 0.035 0.07 0.105 0.14

Kilometers

89°51'45"E

POTENTIAL BLOCK AD_KG_SK_02 OF SANKOSH RIVER

89°51'30"E

89°51'45"E

26°36'45"N

N
W
E
S

AD_KG_SK_02

SANKOSH RIVER

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	SK	SANKOSH RIVER

AD_KG_SK_02

POINT_NO	LATITUDE	LONGITUDE
1	26° 36' 34.832" N	89° 51' 33.960" E
2	26° 36' 34.305" N	89° 51' 32.313" E
3	26° 36' 37.728" N	89° 51' 33.898" E
4	26° 36' 40.898" N	89° 51' 36.487" E
5	26° 36' 44.618" N	89° 51' 38.491" E
6	26° 36' 41.719" N	89° 51' 38.419" E
7	26° 36' 38.006" N	89° 51' 36.056" E
8	26° 36' 37.233" N	89° 51' 35.463" E
9	26° 36' 35.653" N	89° 51' 35.400" E

0 0.0325 0.065 0.13 0.195 0.26

Kilometers

POTENTIAL BLOCK AD_KG_SK_03 OF SANKOSH RIVER

89°50'45"E 89°51'0"E 89°51'15"E 89°51'30"E 89°51'45"E 89°52'0"E 89°52'15"E 89°52'30"E

26°36'30"N 26°36'15"N 26°36'0"N 26°35'45"N 26°35'30"N

N W E S

AD_KG_SK_03

SANKOSH RIVER

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	SK	SANKOSH RIVER

AD_KG_SK_03

POINT_NO	LATITUDE	LONGITUDE	POINT_NO	LATITUDE	LONGITUDE
1	26° 36' 25.140" N	89° 51' 29.522" E	29	26° 35' 30.483" N	89° 51' 31.698" E
2	26° 36' 20.156" N	89° 51' 26.291" E	30	26° 35' 22.887" N	89° 51' 27.355" E
3	26° 36' 22.328" N	89° 51' 32.549" E	31	26° 35' 28.577" N	89° 51' 27.292" E
4	26° 36' 21.410" N	89° 51' 32.576" E	32	26° 35' 29.784" N	89° 51' 27.275" E
5	26° 36' 20.737" N	89° 51' 33.107" E	33	26° 35' 36.595" N	89° 51' 29.032" E
6	26° 36' 20.084" N	89° 51' 33.743" E	34	26° 35' 37.486" N	89° 51' 27.256" E
7	26° 36' 19.105" N	89° 51' 34.785" E	35	26° 35' 38.552" N	89° 51' 27.272" E
8	26° 36' 16.733" N	89° 51' 35.382" E	36	26° 35' 45.771" N	89° 51' 26.869" E
9	26° 36' 16.629" N	89° 51' 35.408" E	37	26° 35' 47.929" N	89° 51' 26.694" E
10	26° 36' 14.415" N	89° 51' 35.966" E	38	26° 35' 50.735" N	89° 51' 26.467" E
11	26° 36' 13.713" N	89° 51' 35.785" E	39	26° 35' 58.292" N	89° 51' 25.101" E
12	26° 36' 12.773" N	89° 51' 36.369" E	40	26° 36' 3.132" N	89° 51' 24.488" E
13	26° 36' 7.890" N	89° 51' 37.537" E	41	26° 36' 3.732" N	89° 51' 24.514" E
14	26° 36' 3.744" N	89° 51' 38.318" E	42	26° 36' 5.860" N	89° 51' 24.608" E
15	26° 36' 3.139" N	89° 51' 38.480" E	43	26° 36' 3.166" N	89° 51' 28.209" E
16	26° 36' 2.723" N	89° 51' 38.592" E	44	26° 36' 3.773" N	89° 51' 30.088" E
17	26° 36' 1.802" N	89° 51' 38.356" E	45	26° 36' 7.195" N	89° 51' 26.588" E
18	26° 36' 0.145" N	89° 51' 37.454" E	46	26° 36' 10.594" N	89° 51' 24.235" E
19	26° 35' 57.711" N	89° 51' 36.677" E	47	26° 36' 11.127" N	89° 51' 23.480" E
20	26° 35' 56.171" N	89° 51' 36.352" E	48	26° 36' 11.793" N	89° 51' 23.036" E
21	26° 35' 51.696" N	89° 51' 34.520" E	49	26° 36' 12.546" N	89° 51' 22.536" E
22	26° 35' 46.252" N	89° 51' 34.888" E	50	26° 36' 14.644" N	89° 51' 21.146" E
23	26° 35' 43.286" N	89° 51' 38.160" E	51	26° 36' 15.860" N	89° 51' 20.356" E
24	26° 35' 40.507" N	89° 51' 38.091" E	52	26° 36' 18.107" N	89° 51' 21.340" E
25	26° 35' 39.321" N	89° 51' 37.953" E	53	26° 36' 19.564" N	89° 51' 23.647" E
26	26° 35' 36.553" N	89° 51' 36.439" E	54	26° 36' 21.907" N	89° 51' 24.661" E
27	26° 35' 35.060" N	89° 51' 35.924" E	55	26° 36' 24.241" N	89° 51' 26.153" E
28	26° 35' 32.653" N	89° 51' 32.756" E	56	26° 36' 27.509" N	89° 51' 29.222" E

0 0.175 0.35 0.7 1.05 1.4

Kilometers

POTENTIAL BLOCK AD_KG_SK_05 OF SANKOSH RIVER

89°51'15"E 89°51'30"E 89°51'45"E 89°52'0"E

26°35'30"N 26°35'15"N

SANKOSH RIVER

AD_KG_SK_05

AD_KG_SK_05

POINT_NO	LATITUDE	LONGITUDE	POINT_NO	LATITUDE	LONGITUDE
1	26° 35' 5.554" N	89° 51' 45.830" E	14	26° 35' 24.902" N	89° 51' 37.549" E
2	26° 35' 5.327" N	89° 51' 45.459" E	15	26° 35' 23.528" N	89° 51' 37.732" E
3	26° 35' 8.266" N	89° 51' 43.501" E	16	26° 35' 22.667" N	89° 51' 38.506" E
4	26° 35' 13.463" N	89° 51' 41.480" E	17	26° 35' 22.272" N	89° 51' 38.899" E
5	26° 35' 16.926" N	89° 51' 34.875" E	18	26° 35' 21.737" N	89° 51' 39.430" E
6	26° 35' 18.417" N	89° 51' 29.914" E	19	26° 35' 20.751" N	89° 51' 40.413" E
7	26° 35' 18.429" N	89° 51' 29.894" E	20	26° 35' 19.333" N	89° 51' 41.156" E
8	26° 35' 22.398" N	89° 51' 29.874" E	21	26° 35' 17.883" N	89° 51' 41.906" E
9	26° 35' 29.102" N	89° 51' 33.027" E	22	26° 35' 16.311" N	89° 51' 41.755" E
10	26° 35' 33.214" N	89° 51' 36.401" E	23	26° 35' 11.532" N	89° 51' 44.678" E
11	26° 35' 32.396" N	89° 51' 36.517" E	24	26° 35' 10.364" N	89° 51' 45.122" E
12	26° 35' 30.532" N	89° 51' 36.771" E	25	26° 35' 8.792" N	89° 51' 45.547" E
13	26° 35' 28.445" N	89° 51' 37.064" E	26	26° 35' 8.586" N	89° 51' 45.603" E

0 0.075 0.15 0.3 0.45 0.6

Kilometers

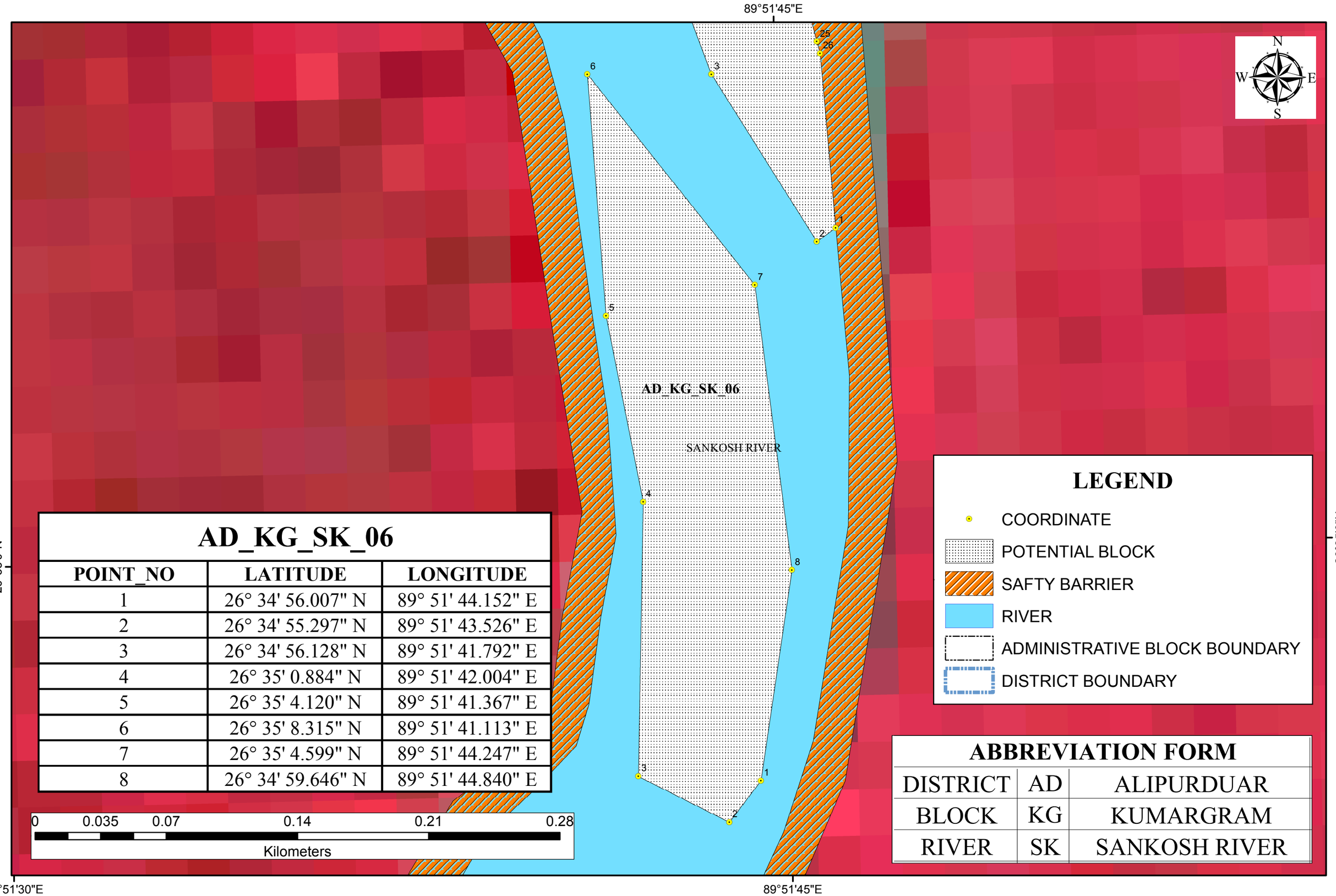
LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	SK	SANKOSH RIVER

POTENTIAL BLOCK AD_KG_SK_06 OF SANKOSH RIVER



AD_KG_SK_06

POINT_NO	LATITUDE	LONGITUDE
1	26° 34' 56.007" N	89° 51' 44.152" E
2	26° 34' 55.297" N	89° 51' 43.526" E
3	26° 34' 56.128" N	89° 51' 41.792" E
4	26° 35' 0.884" N	89° 51' 42.004" E
5	26° 35' 4.120" N	89° 51' 41.367" E
6	26° 35' 8.315" N	89° 51' 41.113" E
7	26° 35' 4.599" N	89° 51' 44.247" E
8	26° 34' 59.646" N	89° 51' 44.840" E

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	SK	SANKOSH RIVER

POTENTIAL BLOCK AD_KG_SK_08 OF SANKOSH RIVER

AD_KG_SK_08		
POINT_NO	LATITUDE	LONGITUDE
1	26° 34' 15.096" N	89° 51' 15.640" E
2	26° 34' 14.747" N	89° 51' 12.543" E
3	26° 34' 15.310" N	89° 51' 11.243" E
4	26° 34' 15.967" N	89° 51' 12.372" E
5	26° 34' 16.721" N	89° 51' 14.554" E
6	26° 34' 18.295" N	89° 51' 18.718" E
7	26° 34' 18.404" N	89° 51' 18.977" E
8	26° 34' 19.177" N	89° 51' 21.971" E
9	26° 34' 21.018" N	89° 51' 25.718" E
10	26° 34' 21.229" N	89° 51' 26.504" E
11	26° 34' 21.874" N	89° 51' 27.081" E
12	26° 34' 23.989" N	89° 51' 28.322" E
13	26° 34' 25.526" N	89° 51' 29.030" E
14	26° 34' 27.735" N	89° 51' 30.574" E
15	26° 34' 30.673" N	89° 51' 31.938" E
16	26° 34' 30.731" N	89° 51' 33.328" E
17	26° 34' 30.689" N	89° 51' 33.316" E
18	26° 34' 29.513" N	89° 51' 32.972" E
19	26° 34' 28.770" N	89° 51' 32.755" E
20	26° 34' 26.635" N	89° 51' 32.740" E
21	26° 34' 24.228" N	89° 51' 32.906" E
22	26° 34' 21.156" N	89° 51' 31.776" E
23	26° 34' 20.907" N	89° 51' 31.585" E
24	26° 34' 18.773" N	89° 51' 27.697" E
25	26° 34' 17.965" N	89° 51' 23.494" E

89°51'15"E
89°51'30"E
26°34'30"N
26°34'15"N
N
S
E
W
AD_KG_SK_08
SANKOSH RIVER
0 0.05 0.1 0.2 0.3 0.4
Kilometers

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	SK	SANKOSH RIVER

POTENTIAL BLOCK AD_KG_SK_09 OF SANKOSH RIVER

AD_KG_SK_09		
POINT_NO	LATITUDE	LONGITUDE
1	26° 33' 55.798" N	89° 50' 53.221" E
2	26° 33' 54.874" N	89° 50' 51.484" E
3	26° 34' 1.597" N	89° 50' 50.503" E
4	26° 34' 4.904" N	89° 50' 52.735" E
5	26° 34' 8.712" N	89° 50' 55.697" E
6	26° 34' 11.927" N	89° 51' 2.514" E
7	26° 34' 12.676" N	89° 51' 2.620" E
8	26° 34' 13.258" N	89° 51' 7.872" E
9	26° 34' 12.444" N	89° 51' 12.554" E
10	26° 34' 12.410" N	89° 51' 12.452" E
11	26° 34' 11.646" N	89° 51' 10.474" E
12	26° 34' 10.075" N	89° 51' 7.620" E
13	26° 34' 8.602" N	89° 51' 5.058" E
14	26° 34' 7.863" N	89° 51' 3.813" E
15	26° 34' 7.860" N	89° 51' 2.686" E
16	26° 34' 6.483" N	89° 51' 0.645" E
17	26° 34' 4.210" N	89° 50' 58.295" E
18	26° 34' 1.802" N	89° 50' 56.229" E
19	26° 34' 1.637" N	89° 50' 56.318" E
20	26° 34' 0.605" N	89° 50' 55.322" E
21	26° 33' 59.836" N	89° 50' 54.681" E
22	26° 33' 58.979" N	89° 50' 54.033" E
23	26° 33' 57.875" N	89° 50' 53.740" E
24	26° 33' 56.556" N	89° 50' 53.406" E

89°50'45"E 89°51'0"E 89°51'15"E

26°34'0"N

AD_KG_SK_09

VER

N W E S

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	SK	SANKOSH RIVER

0 0.05 0.1 0.2 0.3 0.4

Kilometers

POTENTIAL BLOCK AD_KG_SK_10 OF SANKOSH RIVER

89°50'30"E 89°50'45"E 89°51'0"E 89°51'15"E 89°51'30"E

26°34'0"N 26°33'45"N 26°33'30"N

N W E S

AD_KG_SK_10

POINT_NO	LATITUDE	LONGITUDE	POINT_NO	LATITUDE	LONGITUDE
1	26° 33' 53.617" N	89° 50' 48.378" E	32	26° 33' 26.238" N	89° 51' 1.903" E
2	26° 33' 50.469" N	89° 50' 49.545" E	33	26° 33' 25.480" N	89° 51' 5.999" E
3	26° 33' 50.499" N	89° 50' 49.603" E	34	26° 33' 25.111" N	89° 51' 8.490" E
4	26° 33' 49.250" N	89° 50' 49.997" E	35	26° 33' 24.871" N	89° 51' 9.470" E
5	26° 33' 48.112" N	89° 50' 50.356" E	36	26° 33' 24.725" N	89° 51' 9.653" E
6	26° 33' 46.438" N	89° 50' 49.758" E	37	26° 33' 23.444" N	89° 51' 8.507" E
7	26° 33' 44.356" N	89° 50' 48.889" E	38	26° 33' 23.410" N	89° 51' 6.612" E
8	26° 33' 43.450" N	89° 50' 48.526" E	39	26° 33' 22.361" N	89° 51' 5.392" E
9	26° 33' 42.678" N	89° 50' 48.217" E	40	26° 33' 21.791" N	89° 51' 3.535" E
10	26° 33' 40.945" N	89° 50' 47.590" E	41	26° 33' 22.009" N	89° 51' 0.330" E
11	26° 33' 39.531" N	89° 50' 47.399" E	42	26° 33' 22.951" N	89° 50' 59.665" E
12	26° 33' 37.803" N	89° 50' 47.160" E	43	26° 33' 23.203" N	89° 50' 49.638" E
13	26° 33' 36.458" N	89° 50' 46.975" E	44	26° 33' 23.199" N	89° 50' 47.287" E
14	26° 33' 34.922" N	89° 50' 46.751" E	45	26° 33' 26.424" N	89° 50' 44.827" E
15	26° 33' 33.477" N	89° 50' 46.541" E	46	26° 33' 28.888" N	89° 50' 43.815" E
16	26° 33' 32.185" N	89° 50' 47.002" E	47	26° 33' 30.897" N	89° 50' 43.922" E
17	26° 33' 30.911" N	89° 50' 47.470" E	48	26° 33' 43.818" N	89° 50' 45.257" E
18	26° 33' 30.347" N	89° 50' 47.838" E	49	26° 33' 46.997" N	89° 50' 45.336" E
19	26° 33' 29.938" N	89° 50' 48.105" E	50	26° 33' 49.736" N	89° 50' 44.806" E
20	26° 33' 28.940" N	89° 50' 48.744" E	51	26° 33' 51.883" N	89° 50' 44.859" E
21	26° 33' 28.723" N	89° 50' 48.822" E	52	26° 33' 55.212" N	89° 50' 44.381" E
22	26° 33' 28.464" N	89° 50' 49.689" E	53	26° 33' 55.721" N	89° 50' 44.532" E
23	26° 33' 28.254" N	89° 50' 50.540" E	54	26° 33' 57.749" N	89° 50' 45.145" E
24	26° 33' 28.056" N	89° 50' 51.340" E	55	26° 33' 59.180" N	89° 50' 45.618" E
25	26° 33' 27.815" N	89° 50' 52.506" E	56	26° 33' 59.408" N	89° 50' 45.694" E
26	26° 33' 27.597" N	89° 50' 53.496" E	57	26° 34' 1.707" N	89° 50' 46.464" E
27	26° 33' 27.577" N	89° 50' 54.524" E	58	26° 34' 3.656" N	89° 50' 47.257" E
28	26° 33' 27.558" N	89° 50' 54.976" E	59	26° 34' 4.399" N	89° 50' 47.690" E
29	26° 33' 27.410" N	89° 50' 56.048" E	60	26° 34' 1.388" N	89° 50' 48.061" E
30	26° 33' 27.276" N	89° 50' 56.904" E	61	26° 33' 57.944" N	89° 50' 47.996" E
31	26° 33' 27.047" N	89° 50' 58.738" E	62	26° 33' 56.092" N	89° 50' 49.264" E

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

AD_KG_SK_10

SANKOSH RIVER

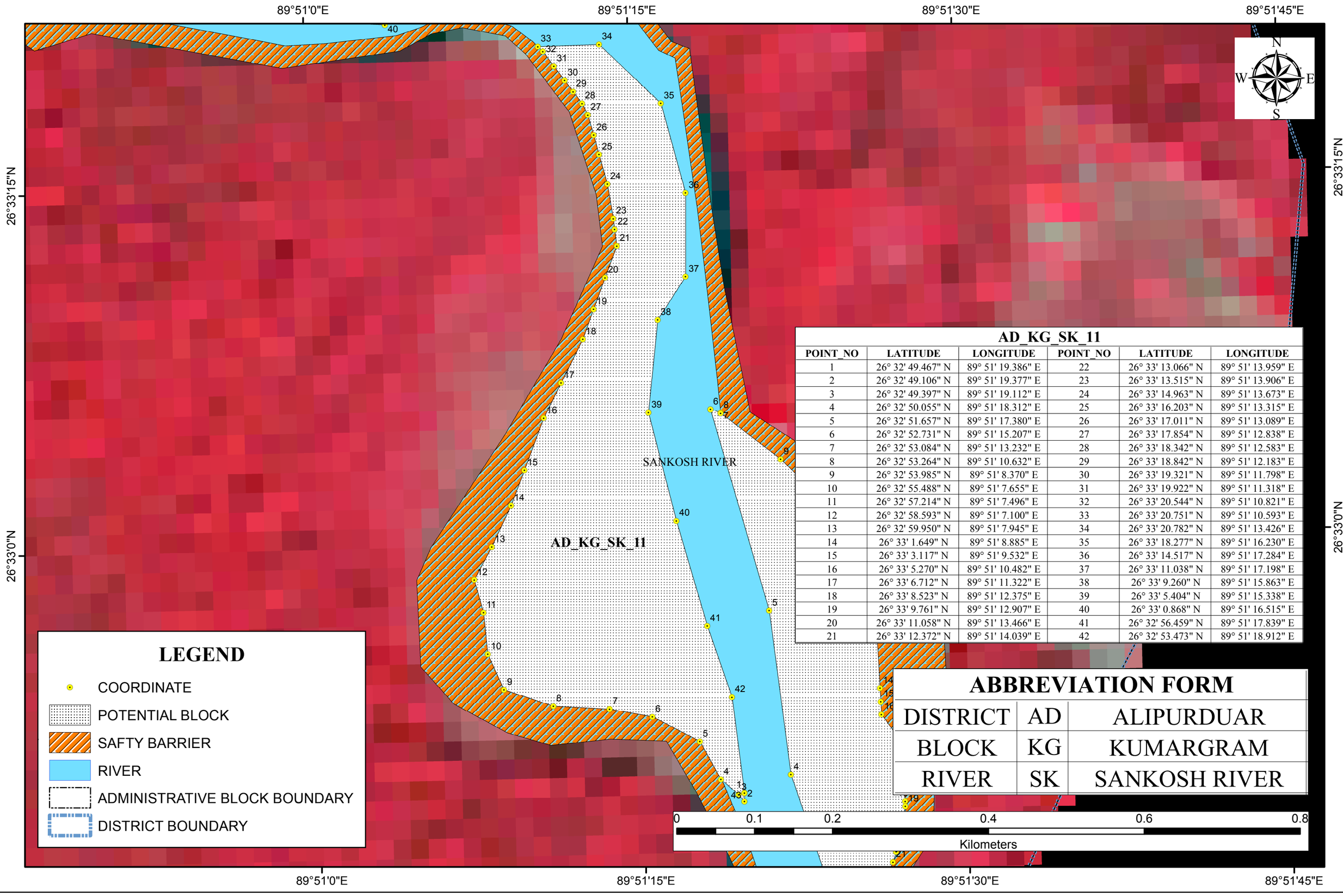
ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	SK	SANKOSH RIVER

0 0.125 0.25 0.5 0.75 1

Kilometers

POTENTIAL BLOCK AD_KG_SK_11 OF SANKOSH RIVER



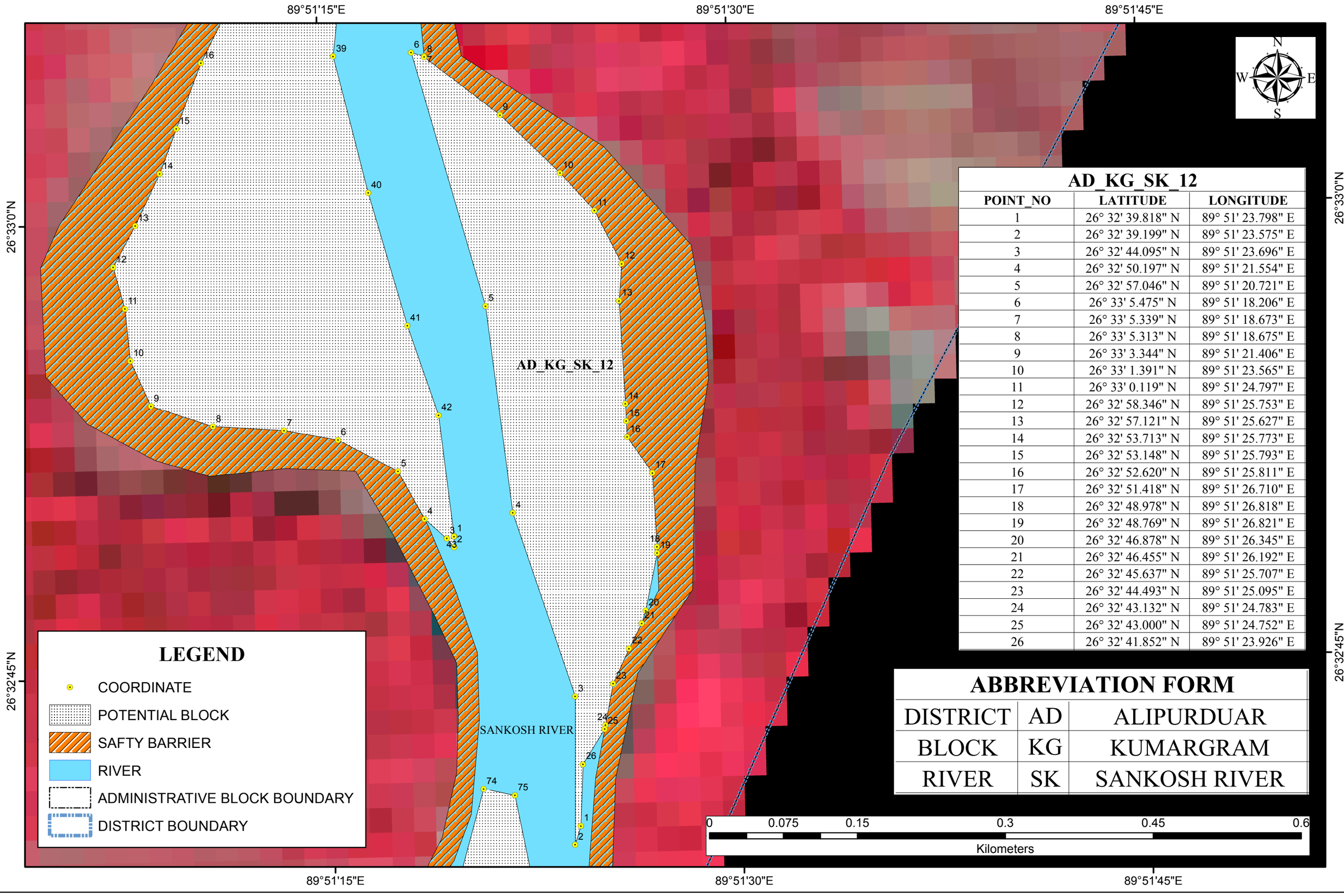
AD_KG_SK_11

POINT_NO	LATITUDE	LONGITUDE	POINT_NO	LATITUDE	LONGITUDE
1	26° 32' 49.467" N	89° 51' 19.386" E	22	26° 33' 13.066" N	89° 51' 13.959" E
2	26° 32' 49.106" N	89° 51' 19.377" E	23	26° 33' 13.515" N	89° 51' 13.906" E
3	26° 32' 49.397" N	89° 51' 19.112" E	24	26° 33' 14.963" N	89° 51' 13.673" E
4	26° 32' 50.055" N	89° 51' 18.312" E	25	26° 33' 16.203" N	89° 51' 13.315" E
5	26° 32' 51.657" N	89° 51' 17.380" E	26	26° 33' 17.011" N	89° 51' 13.089" E
6	26° 32' 52.731" N	89° 51' 15.207" E	27	26° 33' 17.854" N	89° 51' 12.838" E
7	26° 32' 53.084" N	89° 51' 13.232" E	28	26° 33' 18.342" N	89° 51' 12.583" E
8	26° 32' 53.264" N	89° 51' 10.632" E	29	26° 33' 18.842" N	89° 51' 12.183" E
9	26° 32' 53.985" N	89° 51' 8.370" E	30	26° 33' 19.321" N	89° 51' 11.798" E
10	26° 32' 55.488" N	89° 51' 7.655" E	31	26° 33' 19.922" N	89° 51' 11.318" E
11	26° 32' 57.214" N	89° 51' 7.496" E	32	26° 33' 20.544" N	89° 51' 10.821" E
12	26° 32' 58.593" N	89° 51' 7.100" E	33	26° 33' 20.751" N	89° 51' 10.593" E
13	26° 32' 59.950" N	89° 51' 7.945" E	34	26° 33' 20.782" N	89° 51' 13.426" E
14	26° 33' 1.649" N	89° 51' 8.885" E	35	26° 33' 18.277" N	89° 51' 16.230" E
15	26° 33' 3.117" N	89° 51' 9.532" E	36	26° 33' 14.517" N	89° 51' 17.284" E
16	26° 33' 5.270" N	89° 51' 10.482" E	37	26° 33' 11.038" N	89° 51' 17.198" E
17	26° 33' 6.712" N	89° 51' 11.322" E	38	26° 33' 9.260" N	89° 51' 15.863" E
18	26° 33' 8.523" N	89° 51' 12.375" E	39	26° 33' 5.404" N	89° 51' 15.338" E
19	26° 33' 9.761" N	89° 51' 12.907" E	40	26° 33' 0.868" N	89° 51' 16.515" E
20	26° 33' 11.058" N	89° 51' 13.466" E	41	26° 32' 56.459" N	89° 51' 17.839" E
21	26° 33' 12.372" N	89° 51' 14.039" E	42	26° 32' 53.473" N	89° 51' 18.912" E

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	SK	SANKOSH RIVER

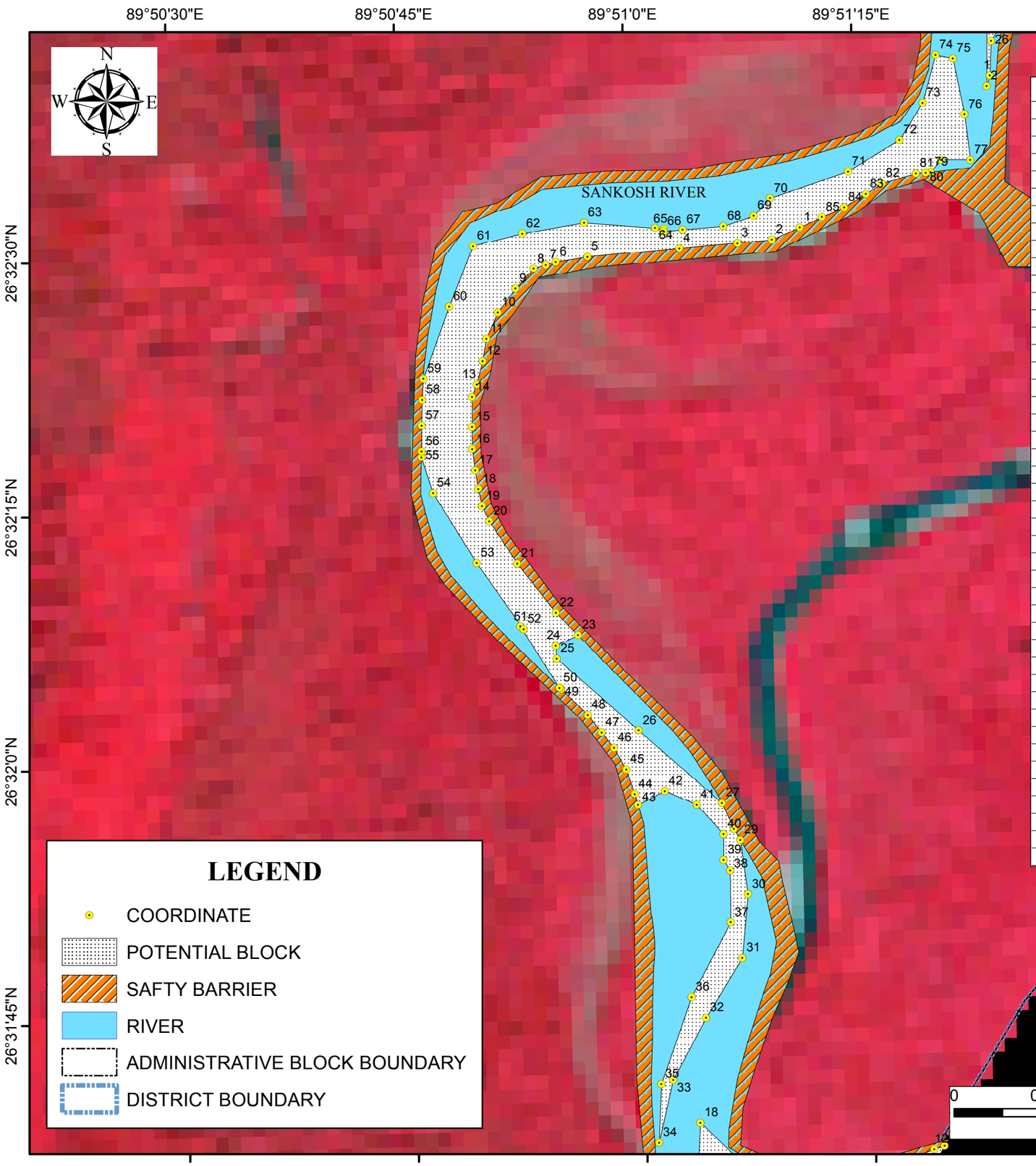
POTENTIAL BLOCK AD_KG_SK_12 OF SANKOSH RIVER



AD_KG_SK_12		
POINT_NO	LATITUDE	LONGITUDE
1	26° 32' 39.818" N	89° 51' 23.798" E
2	26° 32' 39.199" N	89° 51' 23.575" E
3	26° 32' 44.095" N	89° 51' 23.696" E
4	26° 32' 50.197" N	89° 51' 21.554" E
5	26° 32' 57.046" N	89° 51' 20.721" E
6	26° 33' 5.475" N	89° 51' 18.206" E
7	26° 33' 5.339" N	89° 51' 18.673" E
8	26° 33' 5.313" N	89° 51' 18.675" E
9	26° 33' 3.344" N	89° 51' 21.406" E
10	26° 33' 1.391" N	89° 51' 23.565" E
11	26° 33' 0.119" N	89° 51' 24.797" E
12	26° 32' 58.346" N	89° 51' 25.753" E
13	26° 32' 57.121" N	89° 51' 25.627" E
14	26° 32' 53.713" N	89° 51' 25.773" E
15	26° 32' 53.148" N	89° 51' 25.793" E
16	26° 32' 52.620" N	89° 51' 25.811" E
17	26° 32' 51.418" N	89° 51' 26.710" E
18	26° 32' 48.978" N	89° 51' 26.818" E
19	26° 32' 48.769" N	89° 51' 26.821" E
20	26° 32' 46.878" N	89° 51' 26.345" E
21	26° 32' 46.455" N	89° 51' 26.192" E
22	26° 32' 45.637" N	89° 51' 25.707" E
23	26° 32' 44.493" N	89° 51' 25.095" E
24	26° 32' 43.132" N	89° 51' 24.783" E
25	26° 32' 43.000" N	89° 51' 24.752" E
26	26° 32' 41.852" N	89° 51' 23.926" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	SK	SANKOSH RIVER

POTENTIAL BLOCK AD_KG_SK_13_14 OF SANKOSH RIVER



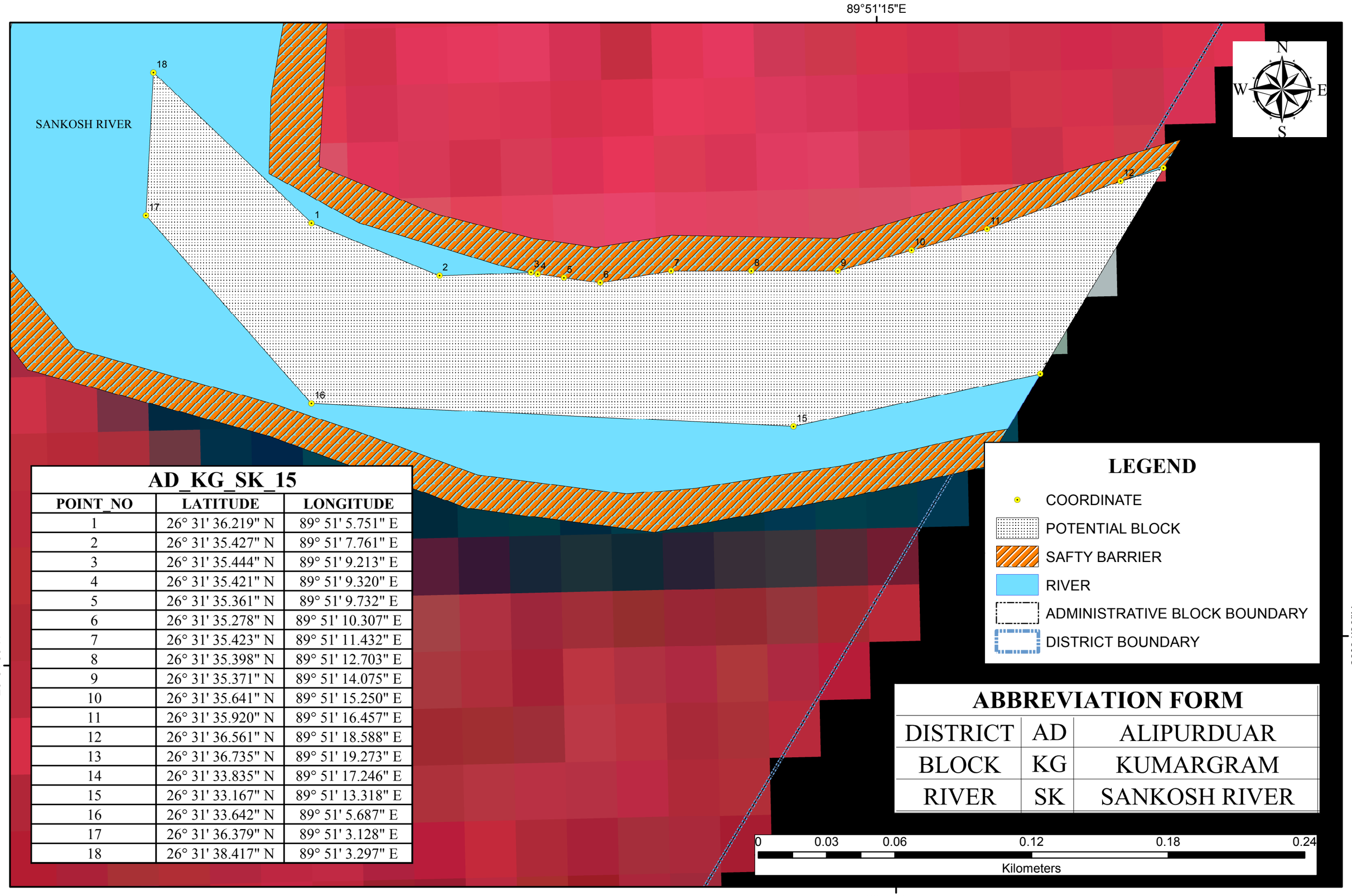
AD_KG_SK_13_14

POINT_NO	LATITUDE	LONGITUDE	POINT_NO	LATITUDE	LONGITUDE
1	26° 32' 31.111" N	89° 51' 11.116" E	44	26° 31' 57.903" N	89° 50' 59.465" E
2	26° 32' 30.418" N	89° 51' 9.264" E	45	26° 31' 59.340" N	89° 50' 58.939" E
3	26° 32' 30.266" N	89° 51' 7.009" E	46	26° 32' 0.655" N	89° 50' 58.166" E
4	26° 32' 30.032" N	89° 51' 3.180" E	47	26° 32' 1.579" N	89° 50' 57.384" E
5	26° 32' 29.664" N	89° 50' 57.137" E	48	26° 32' 2.624" N	89° 50' 56.504" E
6	26° 32' 29.398" N	89° 50' 55.059" E	49	26° 32' 4.182" N	89° 50' 54.772" E
7	26° 32' 29.226" N	89° 50' 54.402" E	50	26° 32' 4.264" N	89° 50' 54.681" E
8	26° 32' 29.015" N	89° 50' 53.602" E	51	26° 32' 7.917" N	89° 50' 52.207" E
9	26° 32' 27.873" N	89° 50' 52.385" E	52	26° 32' 7.748" N	89° 50' 52.412" E
10	26° 32' 26.480" N	89° 50' 51.186" E	53	26° 32' 11.733" N	89° 50' 49.433" E
11	26° 32' 24.959" N	89° 50' 50.395" E	54	26° 32' 15.913" N	89° 50' 46.670" E
12	26° 32' 23.639" N	89° 50' 50.116" E	55	26° 32' 18.045" N	89° 50' 45.961" E
13	26° 32' 22.266" N	89° 50' 49.684" E	56	26° 32' 18.380" N	89° 50' 45.981" E
14	26° 32' 21.531" N	89° 50' 49.373" E	57	26° 32' 19.922" N	89° 50' 46.019" E
15	26° 32' 19.762" N	89° 50' 49.329" E	58	26° 32' 21.430" N	89° 50' 46.099" E
16	26° 32' 18.461" N	89° 50' 49.312" E	59	26° 32' 22.657" N	89° 50' 46.197" E
17	26° 32' 17.199" N	89° 50' 49.470" E	60	26° 32' 26.898" N	89° 50' 48.006" E
18	26° 32' 16.113" N	89° 50' 49.652" E	61	26° 32' 30.440" N	89° 50' 49.660" E
19	26° 32' 15.090" N	89° 50' 49.868" E	62	26° 32' 31.107" N	89° 50' 52.899" E
20	26° 32' 14.184" N	89° 50' 50.321" E	63	26° 32' 31.670" N	89° 50' 56.974" E
21	26° 32' 11.645" N	89° 50' 52.088" E	64	26° 32' 31.255" N	89° 51' 1.622" E
22	26° 32' 8.693" N	89° 50' 54.557" E	65	26° 32' 31.202" N	89° 51' 2.198" E
23	26° 32' 7.334" N	89° 50' 55.976" E	66	26° 32' 31.046" N	89° 51' 2.165" E
24	26° 32' 6.749" N	89° 50' 54.496" E	67	26° 32' 31.127" N	89° 51' 3.426" E
25	26° 32' 5.995" N	89° 50' 54.537" E	68	26° 32' 31.280" N	89° 51' 6.105" E
26	26° 32' 1.642" N	89° 50' 59.815" E	69	26° 32' 31.858" N	89° 51' 8.107" E
27	26° 31' 57.259" N	89° 51' 5.167" E	70	26° 32' 32.868" N	89° 51' 9.202" E
28	26° 31' 55.707" N	89° 51' 5.916" E	71	26° 32' 34.345" N	89° 51' 14.360" E
29	26° 31' 55.049" N	89° 51' 6.320" E	72	26° 32' 36.133" N	89° 51' 17.767" E
30	26° 31' 51.835" N	89° 51' 6.738" E	73	26° 32' 38.302" N	89° 51' 19.350" E
31	26° 31' 48.084" N	89° 51' 6.287" E	74	26° 32' 41.102" N	89° 51' 20.260" E
32	26° 31' 44.589" N	89° 51' 3.812" E	75	26° 32' 40.873" N	89° 51' 21.401" E
33	26° 31' 40.981" N	89° 51' 1.573" E	76	26° 32' 37.559" N	89° 51' 22.083" E
34	26° 31' 37.305" N	89° 51' 0.560" E	77	26° 32' 34.872" N	89° 51' 22.399" E
35	26° 31' 40.735" N	89° 51' 0.791" E	78	26° 32' 34.910" N	89° 51' 20.489" E
36	26° 31' 45.849" N	89° 51' 2.905" E	79	26° 32' 34.204" N	89° 51' 19.769" E
37	26° 31' 50.196" N	89° 51' 5.573" E	80	26° 32' 34.180" N	89° 51' 19.455" E
38	26° 31' 53.255" N	89° 51' 5.610" E	81	26° 32' 34.130" N	89° 51' 18.804" E
39	26° 31' 53.890" N	89° 51' 5.190" E	82	26° 32' 33.595" N	89° 51' 16.565" E
40	26° 31' 55.409" N	89° 51' 5.228" E	83	26° 32' 32.996" N	89° 51' 15.500" E
41	26° 31' 57.197" N	89° 51' 3.514" E	84	26° 32' 32.235" N	89° 51' 14.058" E
42	26° 31' 58.029" N	89° 51' 1.433" E	85	26° 32' 31.691" N	89° 51' 12.576" E
43	26° 31' 57.249" N	89° 50' 59.664" E			

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	SK	SANKOSH RIVER

POTENTIAL BLOCK AD_KG_SK_15 OF SANKOSH RIVER



AD_KG_SK_15		
POINT_NO	LATITUDE	LONGITUDE
1	26° 31' 36.219" N	89° 51' 5.751" E
2	26° 31' 35.427" N	89° 51' 7.761" E
3	26° 31' 35.444" N	89° 51' 9.213" E
4	26° 31' 35.421" N	89° 51' 9.320" E
5	26° 31' 35.361" N	89° 51' 9.732" E
6	26° 31' 35.278" N	89° 51' 10.307" E
7	26° 31' 35.423" N	89° 51' 11.432" E
8	26° 31' 35.398" N	89° 51' 12.703" E
9	26° 31' 35.371" N	89° 51' 14.075" E
10	26° 31' 35.641" N	89° 51' 15.250" E
11	26° 31' 35.920" N	89° 51' 16.457" E
12	26° 31' 36.561" N	89° 51' 18.588" E
13	26° 31' 36.735" N	89° 51' 19.273" E
14	26° 31' 33.835" N	89° 51' 17.246" E
15	26° 31' 33.167" N	89° 51' 13.318" E
16	26° 31' 33.642" N	89° 51' 5.687" E
17	26° 31' 36.379" N	89° 51' 3.128" E
18	26° 31' 38.417" N	89° 51' 3.297" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	SK	SANKOSH RIVER

POTENTIAL BLOCK AD_KG_SK_16 OF SANKOSH RIVER

89°51'15"E

89°51'30"E

26°29'0"N

26°28'45"N

AD_KG_SK_16

SANKOSH RIVER

AD_KG_SK_16		
POINT_NO	LATITUDE	LONGITUDE
1	26° 28' 47.726" N	89° 51' 22.332" E
2	26° 28' 43.465" N	89° 51' 20.508" E
3	26° 28' 43.559" N	89° 51' 19.659" E
4	26° 28' 46.524" N	89° 51' 17.824" E
5	26° 28' 49.397" N	89° 51' 15.865" E
6	26° 28' 50.832" N	89° 51' 14.917" E
7	26° 28' 52.947" N	89° 51' 14.528" E
8	26° 28' 54.671" N	89° 51' 14.009" E
9	26° 28' 56.246" N	89° 51' 13.536" E
10	26° 29' 1.045" N	89° 51' 19.581" E
11	26° 28' 57.437" N	89° 51' 21.896" E
12	26° 28' 53.803" N	89° 51' 22.589" E
13	26° 28' 50.580" N	89° 51' 23.486" E

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

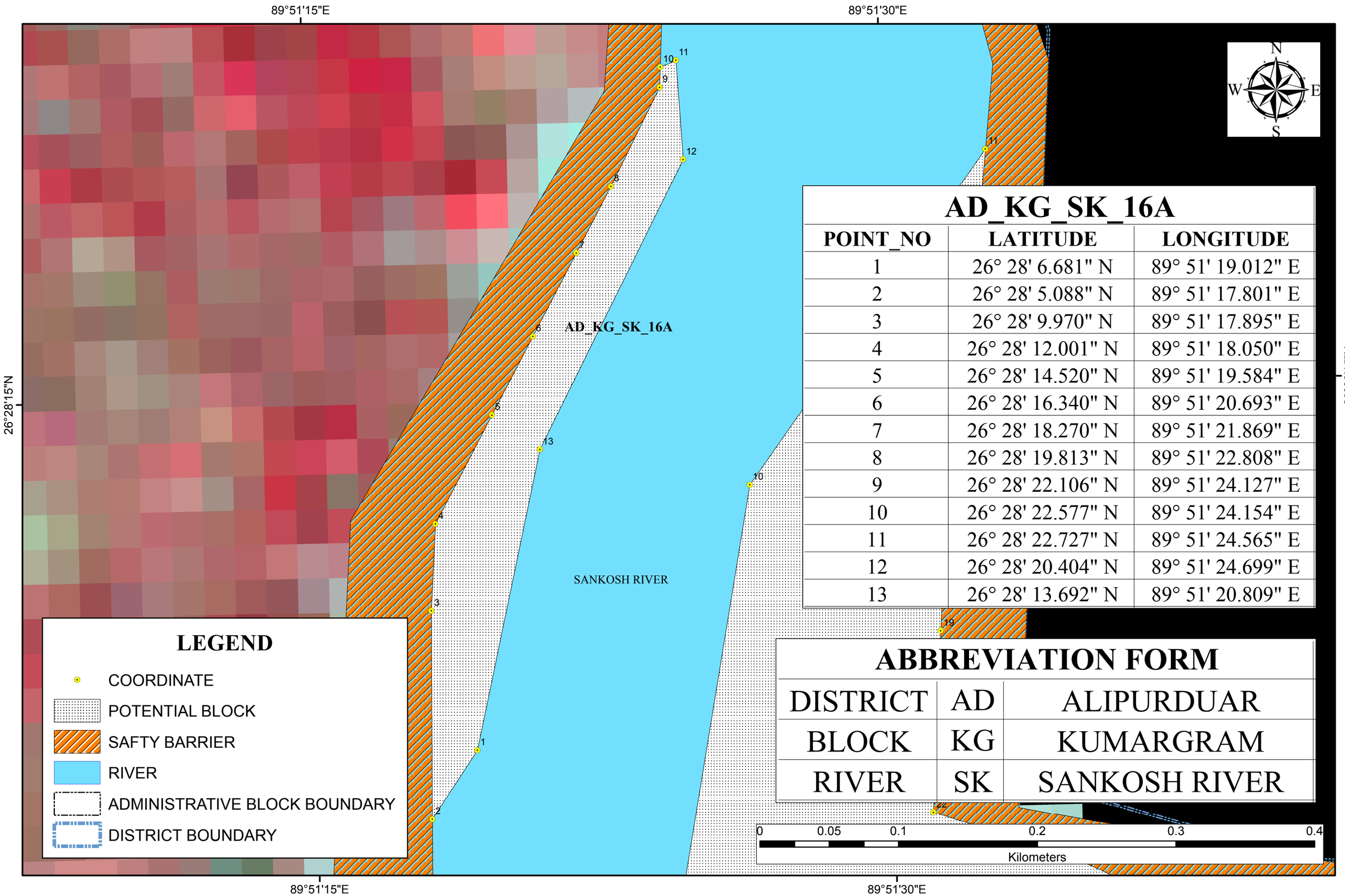
ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	SK	SANKOSH RIVER

0 0.05 0.1 0.2 0.3 0.4

Kilometers

POTENTIAL BLOCK AD_KG_SK_16A OF SANKOSH RIVER



AD_KG_SK_16A

POINT_NO	LATITUDE	LONGITUDE
1	26° 28' 6.681" N	89° 51' 19.012" E
2	26° 28' 5.088" N	89° 51' 17.801" E
3	26° 28' 9.970" N	89° 51' 17.895" E
4	26° 28' 12.001" N	89° 51' 18.050" E
5	26° 28' 14.520" N	89° 51' 19.584" E
6	26° 28' 16.340" N	89° 51' 20.693" E
7	26° 28' 18.270" N	89° 51' 21.869" E
8	26° 28' 19.813" N	89° 51' 22.808" E
9	26° 28' 22.106" N	89° 51' 24.127" E
10	26° 28' 22.577" N	89° 51' 24.154" E
11	26° 28' 22.727" N	89° 51' 24.565" E
12	26° 28' 20.404" N	89° 51' 24.699" E
13	26° 28' 13.692" N	89° 51' 20.809" E

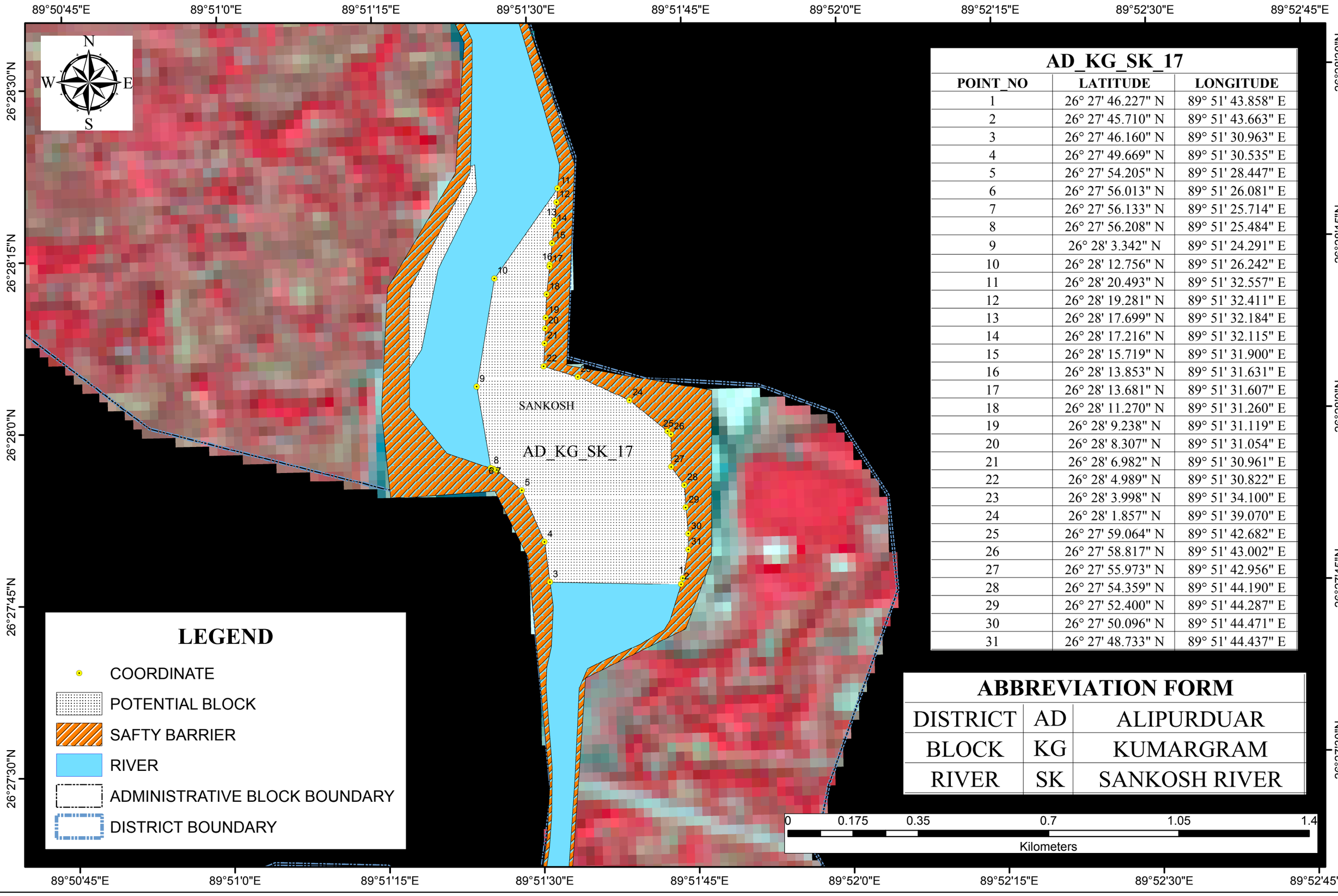
LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	SK	SANKOSH RIVER

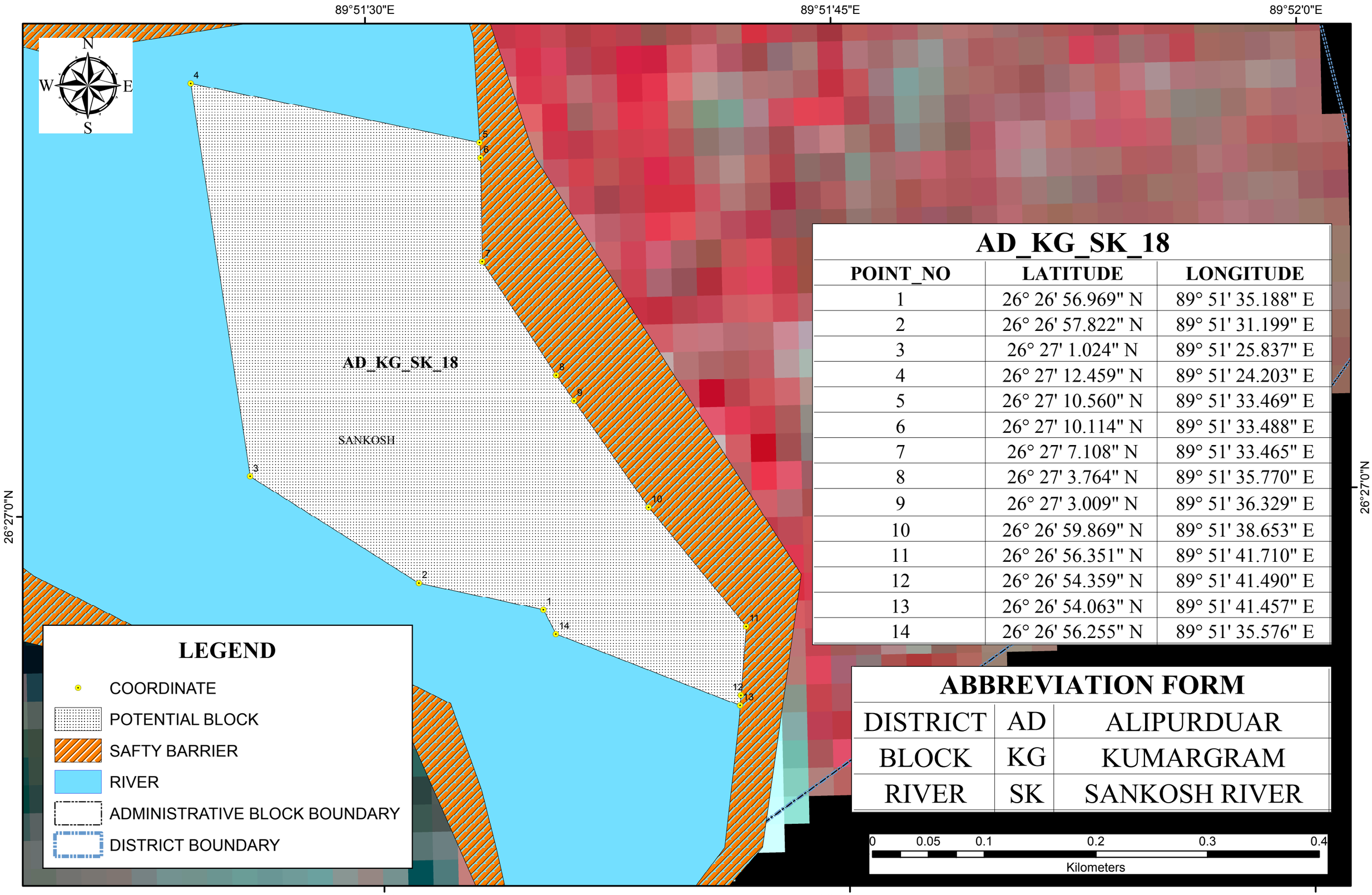
POTENTIAL BLOCK AD_KG_SK_17 OF SANKOSH RIVER



AD_KG_SK_17		
POINT_NO	LATITUDE	LONGITUDE
1	26° 27' 46.227" N	89° 51' 43.858" E
2	26° 27' 45.710" N	89° 51' 43.663" E
3	26° 27' 46.160" N	89° 51' 30.963" E
4	26° 27' 49.669" N	89° 51' 30.535" E
5	26° 27' 54.205" N	89° 51' 28.447" E
6	26° 27' 56.013" N	89° 51' 26.081" E
7	26° 27' 56.133" N	89° 51' 25.714" E
8	26° 27' 56.208" N	89° 51' 25.484" E
9	26° 28' 3.342" N	89° 51' 24.291" E
10	26° 28' 12.756" N	89° 51' 26.242" E
11	26° 28' 20.493" N	89° 51' 32.557" E
12	26° 28' 19.281" N	89° 51' 32.411" E
13	26° 28' 17.699" N	89° 51' 32.184" E
14	26° 28' 17.216" N	89° 51' 32.115" E
15	26° 28' 15.719" N	89° 51' 31.900" E
16	26° 28' 13.853" N	89° 51' 31.631" E
17	26° 28' 13.681" N	89° 51' 31.607" E
18	26° 28' 11.270" N	89° 51' 31.260" E
19	26° 28' 9.238" N	89° 51' 31.119" E
20	26° 28' 8.307" N	89° 51' 31.054" E
21	26° 28' 6.982" N	89° 51' 30.961" E
22	26° 28' 4.989" N	89° 51' 30.822" E
23	26° 28' 3.998" N	89° 51' 34.100" E
24	26° 28' 1.857" N	89° 51' 39.070" E
25	26° 27' 59.064" N	89° 51' 42.682" E
26	26° 27' 58.817" N	89° 51' 43.002" E
27	26° 27' 55.973" N	89° 51' 42.956" E
28	26° 27' 54.359" N	89° 51' 44.190" E
29	26° 27' 52.400" N	89° 51' 44.287" E
30	26° 27' 50.096" N	89° 51' 44.471" E
31	26° 27' 48.733" N	89° 51' 44.437" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	SK	SANKOSH RIVER

POTENTIAL BLOCK AD_KG_SK_18 OF SANKOSH RIVER



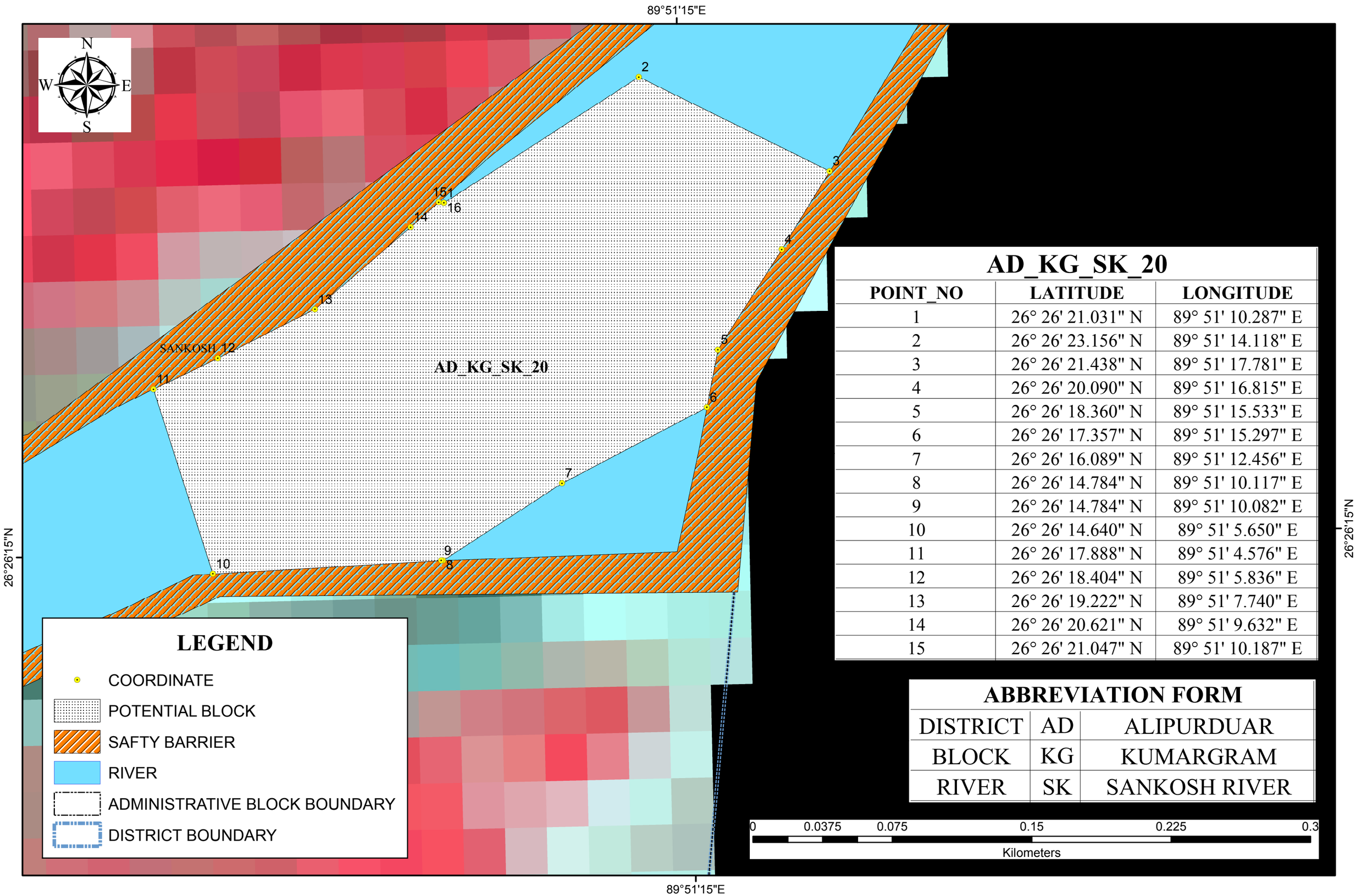
AD_KG_SK_18

POINT_NO	LATITUDE	LONGITUDE
1	26° 26' 56.969" N	89° 51' 35.188" E
2	26° 26' 57.822" N	89° 51' 31.199" E
3	26° 27' 1.024" N	89° 51' 25.837" E
4	26° 27' 12.459" N	89° 51' 24.203" E
5	26° 27' 10.560" N	89° 51' 33.469" E
6	26° 27' 10.114" N	89° 51' 33.488" E
7	26° 27' 7.108" N	89° 51' 33.465" E
8	26° 27' 3.764" N	89° 51' 35.770" E
9	26° 27' 3.009" N	89° 51' 36.329" E
10	26° 26' 59.869" N	89° 51' 38.653" E
11	26° 26' 56.351" N	89° 51' 41.710" E
12	26° 26' 54.359" N	89° 51' 41.490" E
13	26° 26' 54.063" N	89° 51' 41.457" E
14	26° 26' 56.255" N	89° 51' 35.576" E

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	SK	SANKOSH RIVER

POTENTIAL BLOCK AD_KG_SK_20 OF SANKOSH RIVER



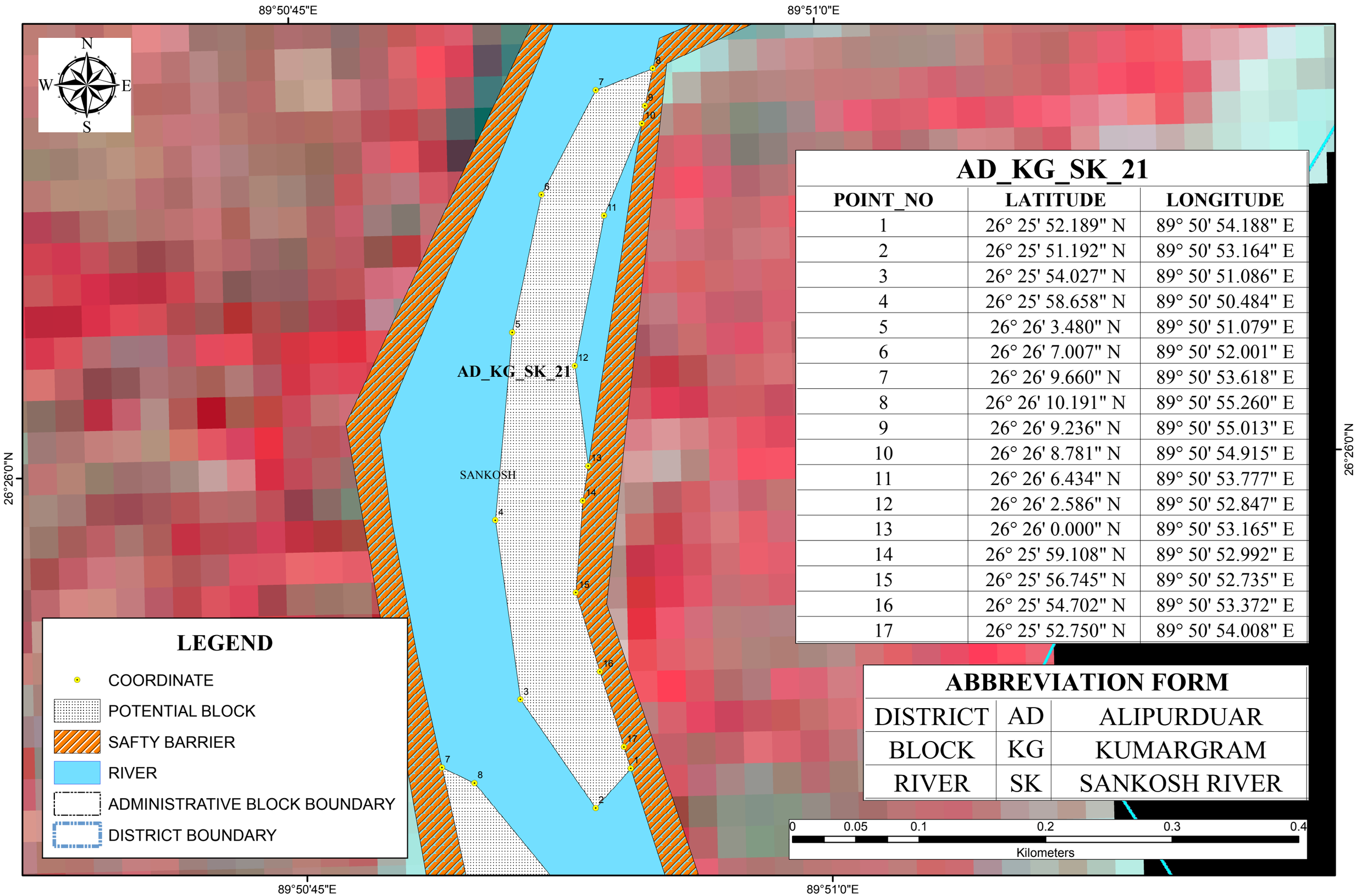
AD_KG_SK_20

POINT_NO	LATITUDE	LONGITUDE
1	26° 26' 21.031" N	89° 51' 10.287" E
2	26° 26' 23.156" N	89° 51' 14.118" E
3	26° 26' 21.438" N	89° 51' 17.781" E
4	26° 26' 20.090" N	89° 51' 16.815" E
5	26° 26' 18.360" N	89° 51' 15.533" E
6	26° 26' 17.357" N	89° 51' 15.297" E
7	26° 26' 16.089" N	89° 51' 12.456" E
8	26° 26' 14.784" N	89° 51' 10.117" E
9	26° 26' 14.784" N	89° 51' 10.082" E
10	26° 26' 14.640" N	89° 51' 5.650" E
11	26° 26' 17.888" N	89° 51' 4.576" E
12	26° 26' 18.404" N	89° 51' 5.836" E
13	26° 26' 19.222" N	89° 51' 7.740" E
14	26° 26' 20.621" N	89° 51' 9.632" E
15	26° 26' 21.047" N	89° 51' 10.187" E

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	SK	SANKOSH RIVER

POTENTIAL BLOCK AD_KG_SK_21 OF SANKOSH RIVER



AD_KG_SK_21		
POINT_NO	**LATITUDE**	**LONGITUDE**
1	26° 25' 52.189" N	89° 50' 54.188" E
2	26° 25' 51.192" N	89° 50' 53.164" E
3	26° 25' 54.027" N	89° 50' 51.086" E
4	26° 25' 58.658" N	89° 50' 50.484" E
5	26° 26' 3.480" N	89° 50' 51.079" E
6	26° 26' 7.007" N	89° 50' 52.001" E
7	26° 26' 9.660" N	89° 50' 53.618" E
8	26° 26' 10.191" N	89° 50' 55.260" E
9	26° 26' 9.236" N	89° 50' 55.013" E
10	26° 26' 8.781" N	89° 50' 54.915" E
11	26° 26' 6.434" N	89° 50' 53.777" E
12	26° 26' 2.586" N	89° 50' 52.847" E
13	26° 26' 0.000" N	89° 50' 53.165" E
14	26° 25' 59.108" N	89° 50' 52.992" E
15	26° 25' 56.745" N	89° 50' 52.735" E
16	26° 25' 54.702" N	89° 50' 53.372" E
17	26° 25' 52.750" N	89° 50' 54.008" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	SK	SANKOSH RIVER

POTENTIAL BLOCK AD_KG_SK_22 OF SANKOSH RIVER

89°50'45"E 89°51'0"E 89°51'15"E

26°25'45"N

N W E S

AD_KG_SK_22

SANKOSH

AD_KG_SK_22

POINT_NO	LATITUDE	LONGITUDE
1	26° 25' 35.321" N	89° 50' 57.188" E
2	26° 25' 34.593" N	89° 50' 55.977" E
3	26° 25' 37.852" N	89° 50' 54.148" E
4	26° 25' 41.192" N	89° 50' 53.634" E
5	26° 25' 42.231" N	89° 50' 51.771" E
6	26° 25' 48.241" N	89° 50' 49.704" E
7	26° 25' 52.324" N	89° 50' 48.804" E
8	26° 25' 51.906" N	89° 50' 49.721" E
9	26° 25' 48.844" N	89° 50' 52.390" E
10	26° 25' 46.022" N	89° 50' 53.872" E
11	26° 25' 42.791" N	89° 50' 54.269" E
12	26° 25' 40.723" N	89° 50' 55.650" E
13	26° 25' 37.043" N	89° 50' 56.992" E

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM

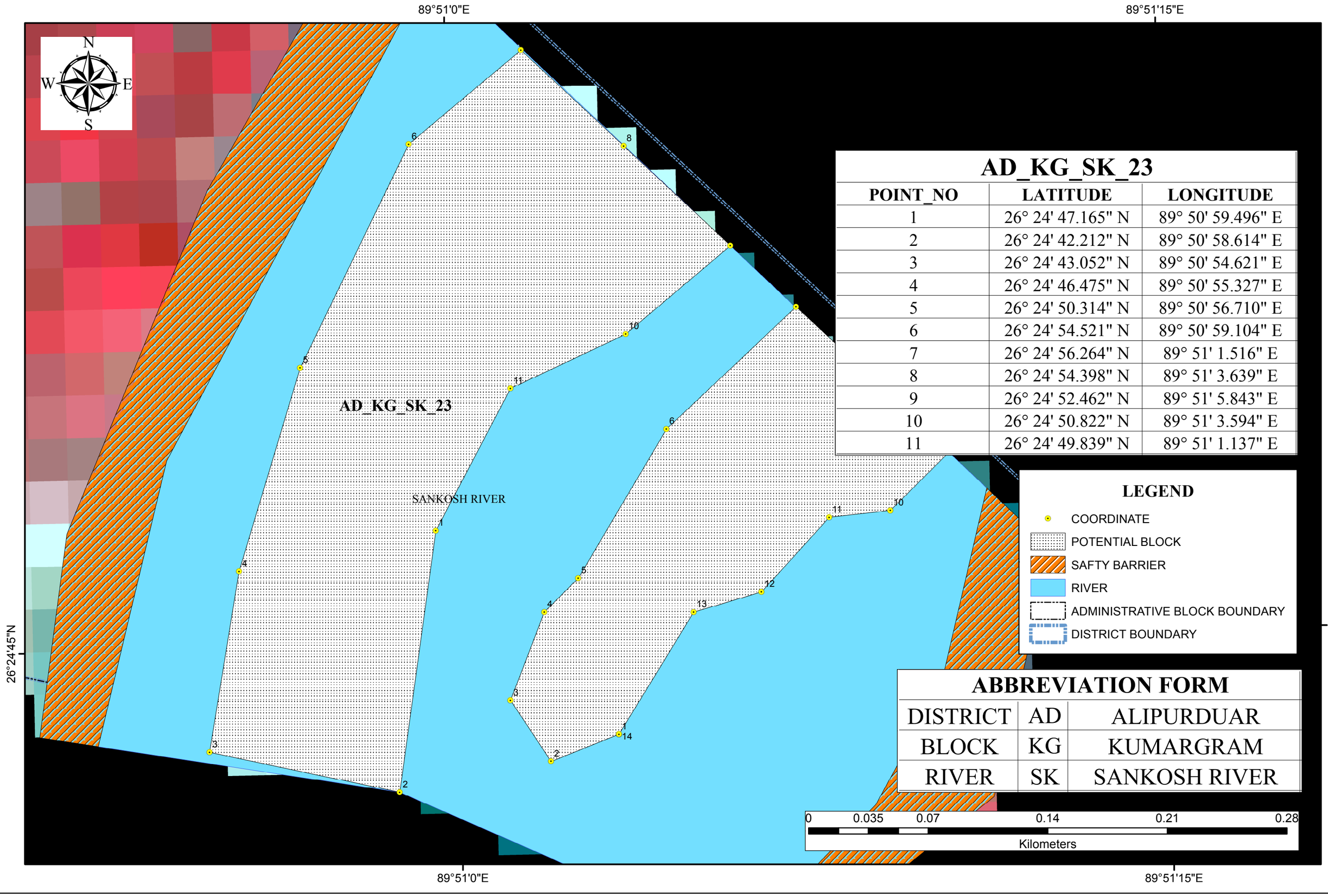
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	SK	SANKOSH RIVER

0 0.05 0.1 0.2 0.3 0.4

Kilometers

89°50'45"E 89°51'0"E 89°51'15"E

POTENTIAL BLOCK AD_KG_SK_23 OF SANKOSH RIVER



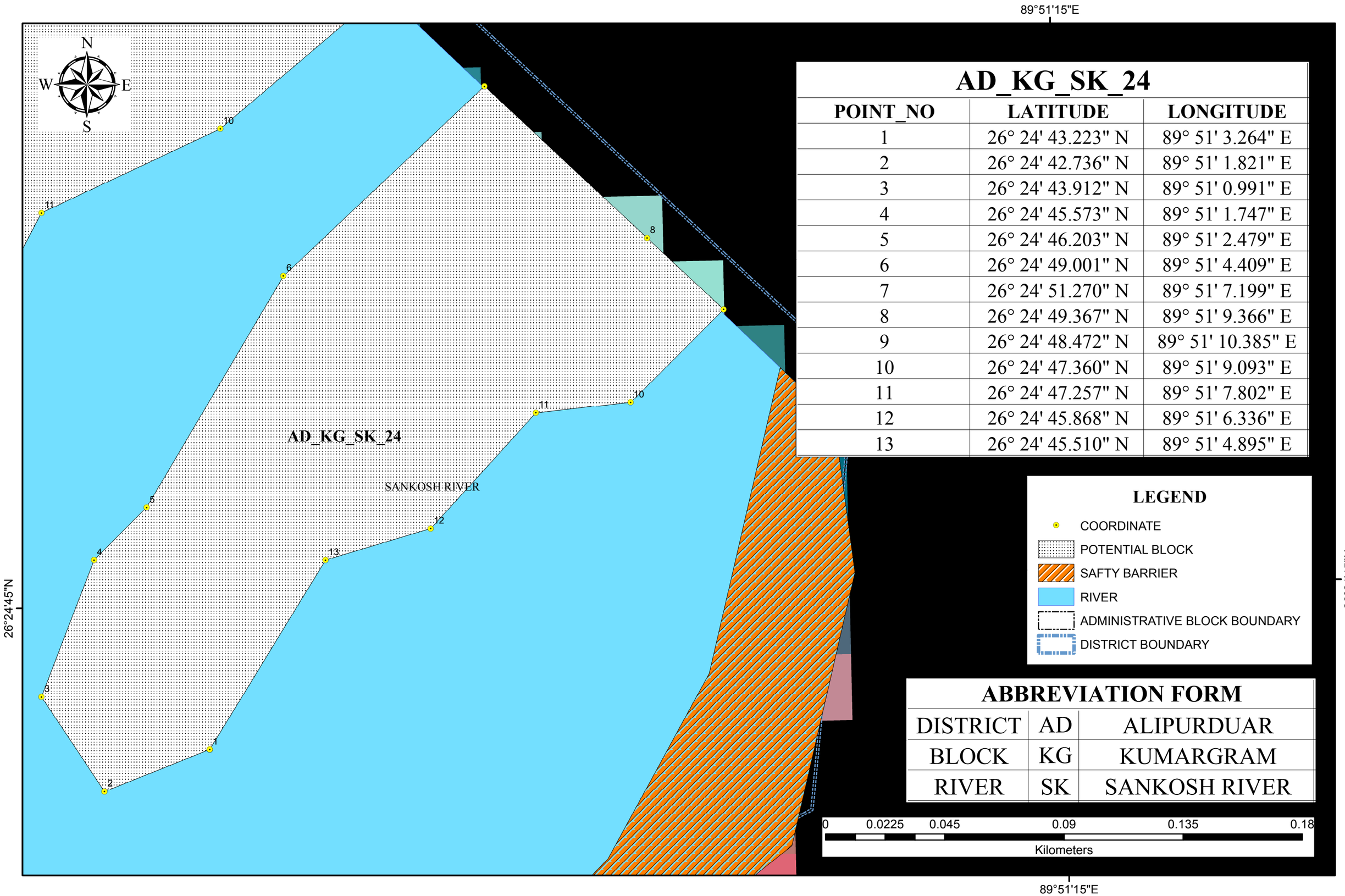
AD_KG_SK_23		
POINT_NO	LATITUDE	LONGITUDE
1	26° 24' 47.165" N	89° 50' 59.496" E
2	26° 24' 42.212" N	89° 50' 58.614" E
3	26° 24' 43.052" N	89° 50' 54.621" E
4	26° 24' 46.475" N	89° 50' 55.327" E
5	26° 24' 50.314" N	89° 50' 56.710" E
6	26° 24' 54.521" N	89° 50' 59.104" E
7	26° 24' 56.264" N	89° 51' 1.516" E
8	26° 24' 54.398" N	89° 51' 3.639" E
9	26° 24' 52.462" N	89° 51' 5.843" E
10	26° 24' 50.822" N	89° 51' 3.594" E
11	26° 24' 49.839" N	89° 51' 1.137" E

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	SK	SANKOSH RIVER

POTENTIAL BLOCK AD_KG_SK_24 OF SANKOSH RIVER



AD_KG_SK_24		
POINT_NO	LATITUDE	LONGITUDE
1	26° 24' 43.223" N	89° 51' 3.264" E
2	26° 24' 42.736" N	89° 51' 1.821" E
3	26° 24' 43.912" N	89° 51' 0.991" E
4	26° 24' 45.573" N	89° 51' 1.747" E
5	26° 24' 46.203" N	89° 51' 2.479" E
6	26° 24' 49.001" N	89° 51' 4.409" E
7	26° 24' 51.270" N	89° 51' 7.199" E
8	26° 24' 49.367" N	89° 51' 9.366" E
9	26° 24' 48.472" N	89° 51' 10.385" E
10	26° 24' 47.360" N	89° 51' 9.093" E
11	26° 24' 47.257" N	89° 51' 7.802" E
12	26° 24' 45.868" N	89° 51' 6.336" E
13	26° 24' 45.510" N	89° 51' 4.895" E

LEGEND

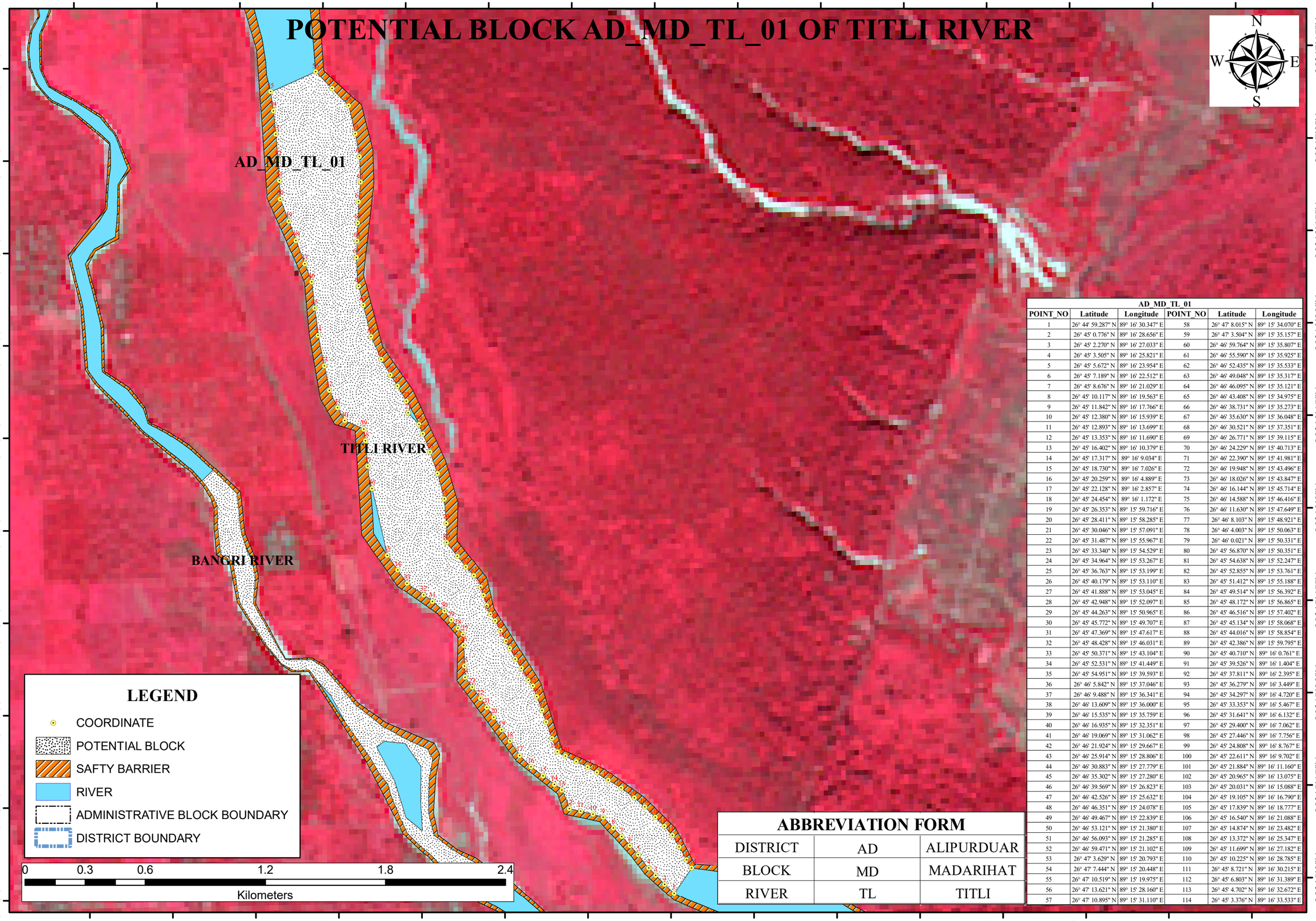
- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KG	KUMARGRAM
RIVER	SK	SANKOSH RIVER

0 0.0225 0.045 0.09 0.135 0.18

Kilometers

POTENTIAL BLOCK AD_MD_TL_01 OF TITLI RIVER



LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.3 0.6 1.2 1.8 2.4

Kilometers

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	MD	MADARIHAT
RIVER	TL	TITLI

AD_MD_TL_01

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 44' 59.287" N	89° 16' 30.347" E	58	26° 47' 8.015" N	89° 15' 34.070" E
2	26° 45' 0.776" N	89° 16' 28.656" E	59	26° 47' 3.504" N	89° 15' 35.157" E
3	26° 45' 2.270" N	89° 16' 27.033" E	60	26° 46' 59.764" N	89° 15' 35.807" E
4	26° 45' 3.505" N	89° 16' 25.821" E	61	26° 46' 55.590" N	89° 15' 35.925" E
5	26° 45' 5.672" N	89° 16' 23.954" E	62	26° 46' 52.435" N	89° 15' 35.533" E
6	26° 45' 7.189" N	89° 16' 22.512" E	63	26° 46' 49.048" N	89° 15' 35.317" E
7	26° 45' 8.676" N	89° 16' 21.029" E	64	26° 46' 46.095" N	89° 15' 35.121" E
8	26° 45' 10.117" N	89° 16' 19.563" E	65	26° 46' 43.408" N	89° 15' 34.975" E
9	26° 45' 11.842" N	89° 16' 17.766" E	66	26° 46' 38.731" N	89° 15' 35.273" E
10	26° 45' 12.380" N	89° 16' 15.939" E	67	26° 46' 35.630" N	89° 15' 36.048" E
11	26° 45' 12.893" N	89° 16' 13.699" E	68	26° 46' 30.521" N	89° 15' 37.351" E
12	26° 45' 13.353" N	89° 16' 11.690" E	69	26° 46' 26.771" N	89° 15' 39.115" E
13	26° 45' 16.402" N	89° 16' 10.379" E	70	26° 46' 24.229" N	89° 15' 40.713" E
14	26° 45' 17.317" N	89° 16' 9.034" E	71	26° 46' 22.390" N	89° 15' 41.981" E
15	26° 45' 18.730" N	89° 16' 7.026" E	72	26° 46' 19.948" N	89° 15' 43.496" E
16	26° 45' 20.259" N	89° 16' 4.889" E	73	26° 46' 18.026" N	89° 15' 43.847" E
17	26° 45' 22.128" N	89° 16' 2.857" E	74	26° 46' 16.144" N	89° 15' 45.714" E
18	26° 45' 24.454" N	89° 16' 1.172" E	75	26° 46' 14.588" N	89° 15' 46.416" E
19	26° 45' 26.353" N	89° 15' 59.716" E	76	26° 46' 11.630" N	89° 15' 47.649" E
20	26° 45' 28.411" N	89° 15' 58.285" E	77	26° 46' 8.103" N	89° 15' 48.921" E
21	26° 45' 30.046" N	89° 15' 57.091" E	78	26° 46' 4.003" N	89° 15' 50.063" E
22	26° 45' 31.487" N	89° 15' 55.967" E	79	26° 46' 0.021" N	89° 15' 50.331" E
23	26° 45' 33.340" N	89° 15' 54.529" E	80	26° 45' 56.870" N	89° 15' 50.351" E
24	26° 45' 34.964" N	89° 15' 53.267" E	81	26° 45' 54.638" N	89° 15' 52.247" E
25	26° 45' 36.763" N	89° 15' 53.199" E	82	26° 45' 52.855" N	89° 15' 53.761" E
26	26° 45' 40.179" N	89° 15' 53.110" E	83	26° 45' 51.412" N	89° 15' 55.188" E
27	26° 45' 41.888" N	89° 15' 53.045" E	84	26° 45' 49.514" N	89° 15' 56.392" E
28	26° 45' 42.948" N	89° 15' 52.097" E	85	26° 45' 48.172" N	89° 15' 56.865" E
29	26° 45' 44.263" N	89° 15' 50.965" E	86	26° 45' 46.516" N	89° 15' 57.402" E
30	26° 45' 45.772" N	89° 15' 49.707" E	87	26° 45' 45.134" N	89° 15' 58.068" E
31	26° 45' 47.369" N	89° 15' 47.617" E	88	26° 45' 44.016" N	89° 15' 58.854" E
32	26° 45' 48.428" N	89° 15' 46.031" E	89	26° 45' 42.386" N	89° 15' 59.795" E
33	26° 45' 50.371" N	89° 15' 43.104" E	90	26° 45' 40.710" N	89° 16' 0.761" E
34	26° 45' 52.531" N	89° 15' 41.449" E	91	26° 45' 39.526" N	89° 16' 1.404" E
35	26° 45' 54.951" N	89° 15' 39.593" E	92	26° 45' 37.811" N	89° 16' 2.395" E
36	26° 46' 5.842" N	89° 15' 37.046" E	93	26° 45' 36.279" N	89° 16' 3.449" E
37	26° 46' 9.488" N	89° 15' 36.341" E	94	26° 45' 34.297" N	89° 16' 4.720" E
38	26° 46' 13.609" N	89° 15' 36.000" E	95	26° 45' 33.353" N	89° 16' 5.467" E
39	26° 46' 15.535" N	89° 15' 35.759" E	96	26° 45' 31.641" N	89° 16' 6.132" E
40	26° 46' 16.935" N	89° 15' 32.351" E	97	26° 45' 29.400" N	89° 16' 7.062" E
41	26° 46' 19.069" N	89° 15' 31.062" E	98	26° 45' 27.446" N	89° 16' 7.756" E
42	26° 46' 21.924" N	89° 15' 29.667" E	99	26° 45' 24.808" N	89° 16' 8.767" E
43	26° 46' 25.914" N	89° 15' 28.806" E	100	26° 45' 22.611" N	89° 16' 9.702" E
44	26° 46' 30.883" N	89° 15' 27.779" E	101	26° 45' 21.884" N	89° 16' 11.160" E
45	26° 46' 35.302" N	89° 15' 27.280" E	102	26° 45' 20.965" N	89° 16' 13.075" E
46	26° 46' 39.569" N	89° 15' 26.823" E	103	26° 45' 20.031" N	89° 16' 15.088" E
47	26° 46' 42.526" N	89° 15' 25.632" E	104	26° 45' 19.105" N	89° 16' 16.790" E
48	26° 46' 46.351" N	89° 15' 24.078" E	105	26° 45' 17.839" N	89° 16' 18.777" E
49	26° 46' 49.467" N	89° 15' 22.839" E	106	26° 45' 16.540" N	89° 16' 21.088" E
50	26° 46' 53.121" N	89° 15' 21.380" E	107	26° 45' 14.874" N	89° 16' 23.482" E
51	26° 46' 56.093" N	89° 15' 21.285" E	108	26° 45' 13.372" N	89° 16' 25.347" E
52	26° 46' 59.471" N	89° 15' 21.102" E	109	26° 45' 11.699" N	89° 16' 27.182" E
53	26° 47' 3.629" N	89° 15' 20.793" E	110	26° 45' 10.225" N	89° 16' 28.785" E
54	26° 47' 7.444" N	89° 15' 20.448" E	111	26° 45' 8.721" N	89° 16' 30.215" E
55	26° 47' 10.519" N	89° 15' 19.975" E	112	26° 45' 6.803" N	89° 16' 31.389" E
56	26° 47' 13.621" N	89° 15' 28.160" E	113	26° 45' 4.702" N	89° 16' 32.672" E
57	26° 47' 10.895" N	89° 15' 31.110" E	114	26° 45' 3.376" N	89° 16' 33.533" E

POTENTIAL BLOCK AD_KC_TR_01 OF TORSA RIVER

89°21'45"E 89°22'0"E 89°22'15"E 89°22'30"E

26°51'30"N 26°51'15"N 26°51'0"N

N W E S

AD_KC_TR_01

TORSA RIVER

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	TR	TORSA

AD_KC_TR_01

POINT_NO	Latitude	Longitude
1	26° 51' 1.873" N	89° 22' 7.699" E
2	26° 50' 59.888" N	89° 22' 6.324" E
3	26° 51' 0.666" N	89° 22' 6.244" E
4	26° 51' 6.115" N	89° 22' 5.865" E
5	26° 51' 13.208" N	89° 22' 3.881" E
6	26° 51' 16.631" N	89° 22' 1.493" E
7	26° 51' 20.152" N	89° 22' 2.058" E
8	26° 51' 25.631" N	89° 22' 2.752" E
9	26° 51' 27.558" N	89° 22' 6.697" E
10	26° 51' 29.267" N	89° 22' 10.195" E

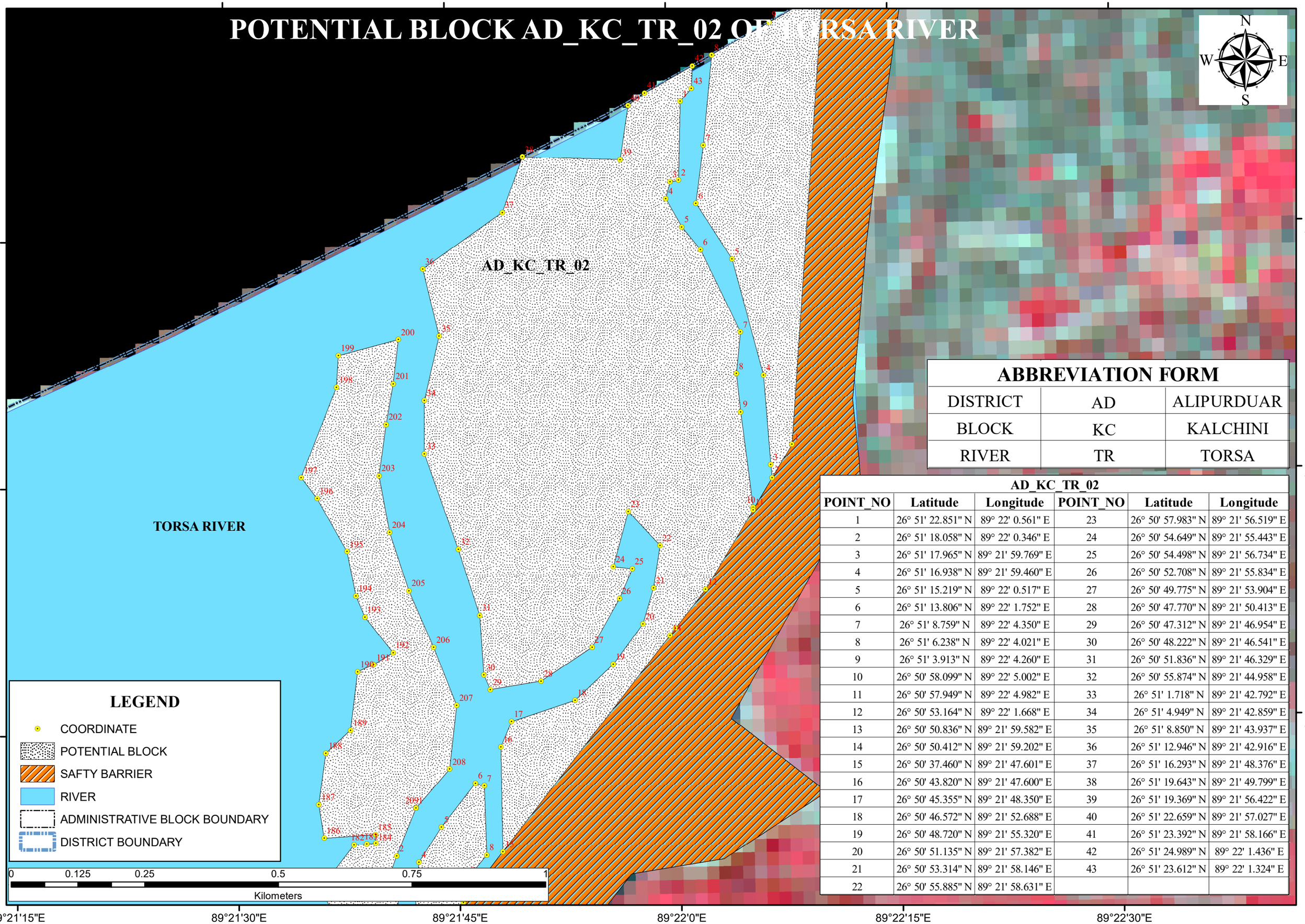
LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.075 0.15 0.3 0.45 0.6

Kilometers

POTENTIAL BLOCK AD_KC_TR_02 OF TORSA RIVER

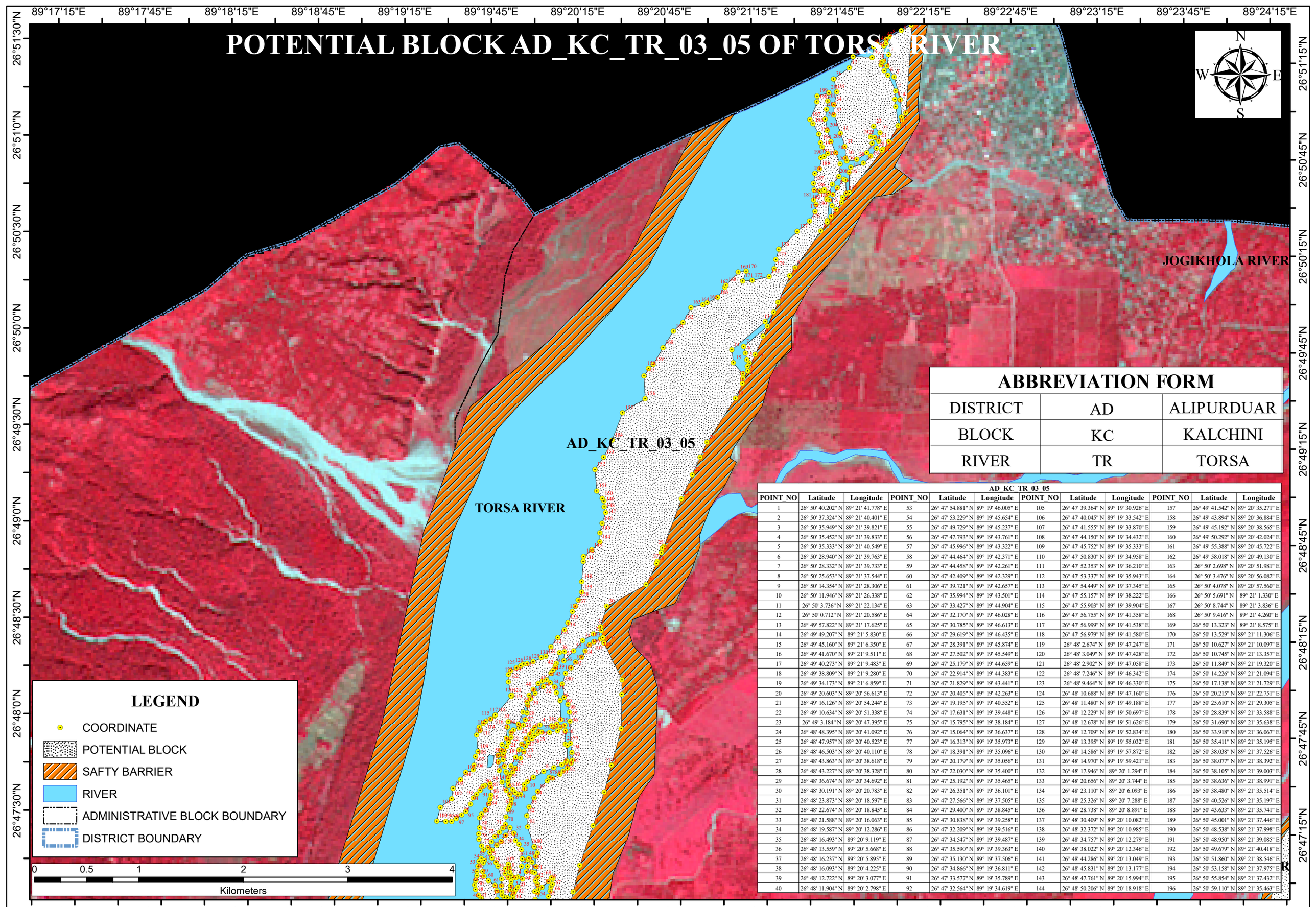


ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	TR	TORSA

AD_KC_TR_02

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 51' 22.851" N	89° 22' 0.561" E	23	26° 50' 57.983" N	89° 21' 56.519" E
2	26° 51' 18.058" N	89° 22' 0.346" E	24	26° 50' 54.649" N	89° 21' 55.443" E
3	26° 51' 17.965" N	89° 21' 59.769" E	25	26° 50' 54.498" N	89° 21' 56.734" E
4	26° 51' 16.938" N	89° 21' 59.460" E	26	26° 50' 52.708" N	89° 21' 55.834" E
5	26° 51' 15.219" N	89° 22' 0.517" E	27	26° 50' 49.775" N	89° 21' 53.904" E
6	26° 51' 13.806" N	89° 22' 1.752" E	28	26° 50' 47.770" N	89° 21' 50.413" E
7	26° 51' 8.759" N	89° 22' 4.350" E	29	26° 50' 47.312" N	89° 21' 46.954" E
8	26° 51' 6.238" N	89° 22' 4.021" E	30	26° 50' 48.222" N	89° 21' 46.541" E
9	26° 51' 3.913" N	89° 22' 4.260" E	31	26° 50' 51.836" N	89° 21' 46.329" E
10	26° 50' 58.099" N	89° 22' 5.002" E	32	26° 50' 55.874" N	89° 21' 44.958" E
11	26° 50' 57.949" N	89° 22' 4.982" E	33	26° 51' 1.718" N	89° 21' 42.792" E
12	26° 50' 53.164" N	89° 22' 1.668" E	34	26° 51' 4.949" N	89° 21' 42.859" E
13	26° 50' 50.836" N	89° 21' 59.582" E	35	26° 51' 8.850" N	89° 21' 43.937" E
14	26° 50' 50.412" N	89° 21' 59.202" E	36	26° 51' 12.946" N	89° 21' 42.916" E
15	26° 50' 37.460" N	89° 21' 47.601" E	37	26° 51' 16.293" N	89° 21' 48.376" E
16	26° 50' 43.820" N	89° 21' 47.600" E	38	26° 51' 19.643" N	89° 21' 49.799" E
17	26° 50' 45.355" N	89° 21' 48.350" E	39	26° 51' 19.369" N	89° 21' 56.422" E
18	26° 50' 46.572" N	89° 21' 52.688" E	40	26° 51' 22.659" N	89° 21' 57.027" E
19	26° 50' 48.720" N	89° 21' 55.320" E	41	26° 51' 23.392" N	89° 21' 58.166" E
20	26° 50' 51.135" N	89° 21' 57.382" E	42	26° 51' 24.989" N	89° 22' 1.436" E
21	26° 50' 53.314" N	89° 21' 58.146" E	43	26° 51' 23.612" N	89° 22' 1.324" E
22	26° 50' 55.885" N	89° 21' 58.631" E			

POTENTIAL BLOCK AD_KC_TR_03_05 OF TORSA RIVER



ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	TR	TORSA

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

AD_KC_TR_03_05

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 50' 40.202" N	89° 21' 41.778" E	53	26° 47' 54.881" N	89° 19' 46.005" E	105	26° 47' 39.364" N	89° 19' 30.926" E	157	26° 49' 41.542" N	89° 20' 35.271" E
2	26° 50' 37.324" N	89° 21' 40.401" E	54	26° 47' 53.229" N	89° 19' 45.654" E	106	26° 47' 40.045" N	89° 19' 33.542" E	158	26° 49' 43.894" N	89° 20' 36.884" E
3	26° 50' 35.949" N	89° 21' 39.821" E	55	26° 47' 49.729" N	89° 19' 45.237" E	107	26° 47' 41.555" N	89° 19' 33.870" E	159	26° 49' 45.192" N	89° 20' 38.565" E
4	26° 50' 35.452" N	89° 21' 39.833" E	56	26° 47' 47.793" N	89° 19' 43.761" E	108	26° 47' 44.150" N	89° 19' 34.432" E	160	26° 49' 50.292" N	89° 20' 42.024" E
5	26° 50' 35.333" N	89° 21' 40.549" E	57	26° 47' 45.996" N	89° 19' 43.322" E	109	26° 47' 45.752" N	89° 19' 35.333" E	161	26° 49' 55.388" N	89° 20' 45.722" E
6	26° 50' 28.940" N	89° 21' 39.763" E	58	26° 47' 44.464" N	89° 19' 42.371" E	110	26° 47' 50.830" N	89° 19' 34.958" E	162	26° 49' 58.018" N	89° 20' 49.130" E
7	26° 50' 28.332" N	89° 21' 39.733" E	59	26° 47' 44.458" N	89° 19' 42.261" E	111	26° 47' 52.353" N	89° 19' 36.210" E	163	26° 50' 2.698" N	89° 20' 51.981" E
8	26° 50' 25.653" N	89° 21' 37.544" E	60	26° 47' 42.409" N	89° 19' 42.329" E	112	26° 47' 53.337" N	89° 19' 35.943" E	164	26° 50' 3.476" N	89° 20' 56.082" E
9	26° 50' 14.354" N	89° 21' 28.306" E	61	26° 47' 39.721" N	89° 19' 42.657" E	113	26° 47' 54.449" N	89° 19' 37.345" E	165	26° 50' 4.078" N	89° 20' 57.560" E
10	26° 50' 11.946" N	89° 21' 26.338" E	62	26° 47' 35.994" N	89° 19' 43.501" E	114	26° 47' 55.157" N	89° 19' 38.222" E	166	26° 50' 5.691" N	89° 21' 1.330" E
11	26° 50' 3.736" N	89° 21' 22.134" E	63	26° 47' 33.427" N	89° 19' 44.904" E	115	26° 47' 55.903" N	89° 19' 39.904" E	167	26° 50' 8.744" N	89° 21' 3.836" E
12	26° 50' 0.712" N	89° 21' 20.586" E	64	26° 47' 32.170" N	89° 19' 46.028" E	116	26° 47' 56.755" N	89° 19' 41.358" E	168	26° 50' 9.416" N	89° 21' 4.260" E
13	26° 49' 57.822" N	89° 21' 17.625" E	65	26° 47' 30.785" N	89° 19' 46.613" E	117	26° 47' 56.999" N	89° 19' 41.538" E	169	26° 50' 13.323" N	89° 21' 8.575" E
14	26° 49' 49.207" N	89° 21' 5.830" E	66	26° 47' 29.619" N	89° 19' 46.435" E	118	26° 47' 56.979" N	89° 19' 41.580" E	170	26° 50' 13.529" N	89° 21' 11.306" E
15	26° 49' 45.160" N	89° 21' 6.350" E	67	26° 47' 28.391" N	89° 19' 45.874" E	119	26° 48' 2.674" N	89° 19' 47.247" E	171	26° 50' 10.627" N	89° 21' 10.097" E
16	26° 49' 41.670" N	89° 21' 9.511" E	68	26° 47' 27.502" N	89° 19' 45.549" E	120	26° 48' 3.049" N	89° 19' 47.428" E	172	26° 50' 10.745" N	89° 21' 13.357" E
17	26° 49' 40.273" N	89° 21' 9.483" E	69	26° 47' 25.179" N	89° 19' 44.659" E	121	26° 48' 2.902" N	89° 19' 47.058" E	173	26° 50' 11.849" N	89° 21' 19.320" E
18	26° 49' 38.809" N	89° 21' 9.280" E	70	26° 47' 22.914" N	89° 19' 44.383" E	122	26° 48' 7.246" N	89° 19' 46.342" E	174	26° 50' 14.226" N	89° 21' 21.094" E
19	26° 49' 34.173" N	89° 21' 6.859" E	71	26° 47' 21.829" N	89° 19' 43.441" E	123	26° 48' 9.464" N	89° 19' 46.330" E	175	26° 50' 17.138" N	89° 21' 21.729" E
20	26° 49' 20.603" N	89° 20' 56.613" E	72	26° 47' 20.405" N	89° 19' 42.263" E	124	26° 48' 10.688" N	89° 19' 47.160" E	176	26° 50' 20.215" N	89° 21' 22.751" E
21	26° 49' 16.126" N	89° 20' 54.244" E	73	26° 47' 19.195" N	89° 19' 40.552" E	125	26° 48' 11.480" N	89° 19' 49.188" E	177	26° 50' 25.610" N	89° 21' 29.305" E
22	26° 49' 10.634" N	89° 20' 51.338" E	74	26° 47' 17.631" N	89° 19' 39.448" E	126	26° 48' 12.229" N	89° 19' 50.697" E	178	26° 50' 28.839" N	89° 21' 33.588" E
23	26° 49' 3.184" N	89° 20' 47.395" E	75	26° 47' 15.795" N	89° 19' 38.184" E	127	26° 48' 12.678" N	89° 19' 51.626" E	179	26° 50' 31.690" N	89° 21' 35.638" E
24	26° 48' 48.395" N	89° 20' 41.092" E	76	26° 47' 15.064" N	89° 19' 36.637" E	128	26° 48' 12.709" N	89° 19' 52.834" E	180	26° 50' 33.918" N	89° 21' 36.067" E
25	26° 48' 47.957" N	89° 20' 40.523" E	77	26° 47' 16.313" N	89° 19' 35.973" E	129	26° 48' 13.395" N	89° 19' 55.032" E	181	26° 50' 35.411" N	89° 21' 35.195" E
26	26° 48' 46.503" N	89° 20' 40.110" E	78	26° 47' 18.391" N	89° 19' 35.096" E	130	26° 48' 14.586" N	89° 19' 57.872" E	182	26° 50' 38.038" N	89° 21' 37.526" E
27	26° 48' 43.863" N	89° 20' 38.618" E	79	26° 47' 20.179" N	89° 19' 35.056" E	131	26° 48' 14.970" N	89° 19' 59.421" E	183	26° 50' 38.077" N	89° 21' 38.392" E
28	26° 48' 43.227" N	89° 20' 38.328" E	80	26° 47' 22.030" N	89° 19' 35.400" E	132	26° 48' 17.946" N	89° 20' 1.294" E	184	26° 50' 38.105" N	89° 21' 39.003" E
29	26° 48' 36.674" N	89° 20' 34.692" E	81	26° 47' 25.192" N	89° 19' 35.465" E	133	26° 48' 20.656" N	89° 20' 3.744" E	185	26° 50' 38.636" N	89° 21' 38.991" E
30	26° 48' 30.191" N	89° 20' 20.783" E	82	26° 47' 26.351" N	89° 19' 36.101" E	134	26° 48' 23.110" N	89° 20' 6.093" E	186	26° 50' 38.480" N	89° 21' 35.514" E
31	26° 48' 23.873" N	89° 20' 18.597" E	83	26° 47' 27.566" N	89° 19' 37.505" E	135	26° 48' 25.326" N	89° 20' 7.288" E	187	26° 50' 40.526" N	89° 21' 35.197" E
32	26° 48' 22.674" N	89° 20' 18.845" E	84	26° 47' 29.400" N	89° 19' 38.745" E	136	26° 48' 28.738" N	89° 20' 8.891" E	188	26° 50' 43.633" N	89° 21' 35.741" E
33	26° 48' 21.588" N	89° 20' 16.063" E	85	26° 47' 30.838" N	89° 19' 39.258" E	137	26° 48' 30.409" N	89° 20' 10.082" E	189	26° 50' 45.001" N	89° 21' 37.446" E
34	26° 48' 19.587" N	89° 20' 12.286" E	86	26° 47' 32.209" N	89° 19' 39.516" E	138	26° 48' 32.372" N	89° 20' 10.985" E	190	26° 50' 48.538" N	89° 21' 37.998" E
35	26° 48' 16.493" N	89° 20' 9.119" E	87	26° 47' 34.547" N	89° 19' 39.487" E	139	26° 48' 34.757" N	89° 20' 12.279" E	191	26° 50' 48.950" N	89° 21' 39.085" E
36	26° 48' 13.559" N	89° 20' 5.668" E	88	26° 47' 35.590" N	89° 19' 39.363" E	140	26° 48' 38.022" N	89° 20' 12.346" E	192	26° 50' 49.679" N	89° 21' 40.418" E
37	26° 48' 16.237" N	89° 20' 5.895" E	89	26° 47' 35.130" N	89° 19' 37.506" E	141	26° 48' 44.286" N	89° 20' 13.049" E	193	26° 50' 51.860" N	89° 21' 38.546" E
38	26° 48' 16.093" N	89° 20' 4.225" E	90	26° 47' 34.866" N	89° 19' 36.811" E	142	26° 48' 45.831" N	89° 20' 13.177" E	194	26° 50' 53.158" N	89° 21' 37.975" E
39	26° 48' 12.722" N	89° 20' 3.077" E	91	26° 47' 33.577" N	89° 19' 35.789" E	143	26° 48' 47.761" N	89° 20' 15.994" E	195	26° 50' 55.854" N	89° 21' 37.432" E
40	26° 48' 11.904" N	89° 20' 2.798" E	92	26° 47' 32.564" N	89° 19' 34.619" E	144	26° 48' 50.206" N	89° 20' 18.918" E	196	26° 50' 59.110" N	89° 21' 35.463" E

POTENTIAL BLOCK AD_KC_TR_04 OF TORSA RIVER

89°21'40"E 89°21'50"E 89°22'0"E

26°50'40"N 26°50'30"N

N W E S

TORSA RIVER

AD_KC_TR_04

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	TR	TORSA

AD_KC_TR_04		
POINT_NO	Latitude	Longitude
1	26° 50' 32.278" N	89° 21' 42.960" E
2	26° 50' 30.141" N	89° 21' 41.212" E
3	26° 50' 33.556" N	89° 21' 41.549" E
4	26° 50' 36.902" N	89° 21' 41.906" E
5	26° 50' 39.025" N	89° 21' 43.483" E
6	26° 50' 41.650" N	89° 21' 45.838" E
7	26° 50' 41.485" N	89° 21' 46.428" E
8	26° 50' 37.283" N	89° 21' 46.519" E
9	26° 50' 35.917" N	89° 21' 45.222" E
10	26° 50' 34.419" N	89° 21' 44.877" E

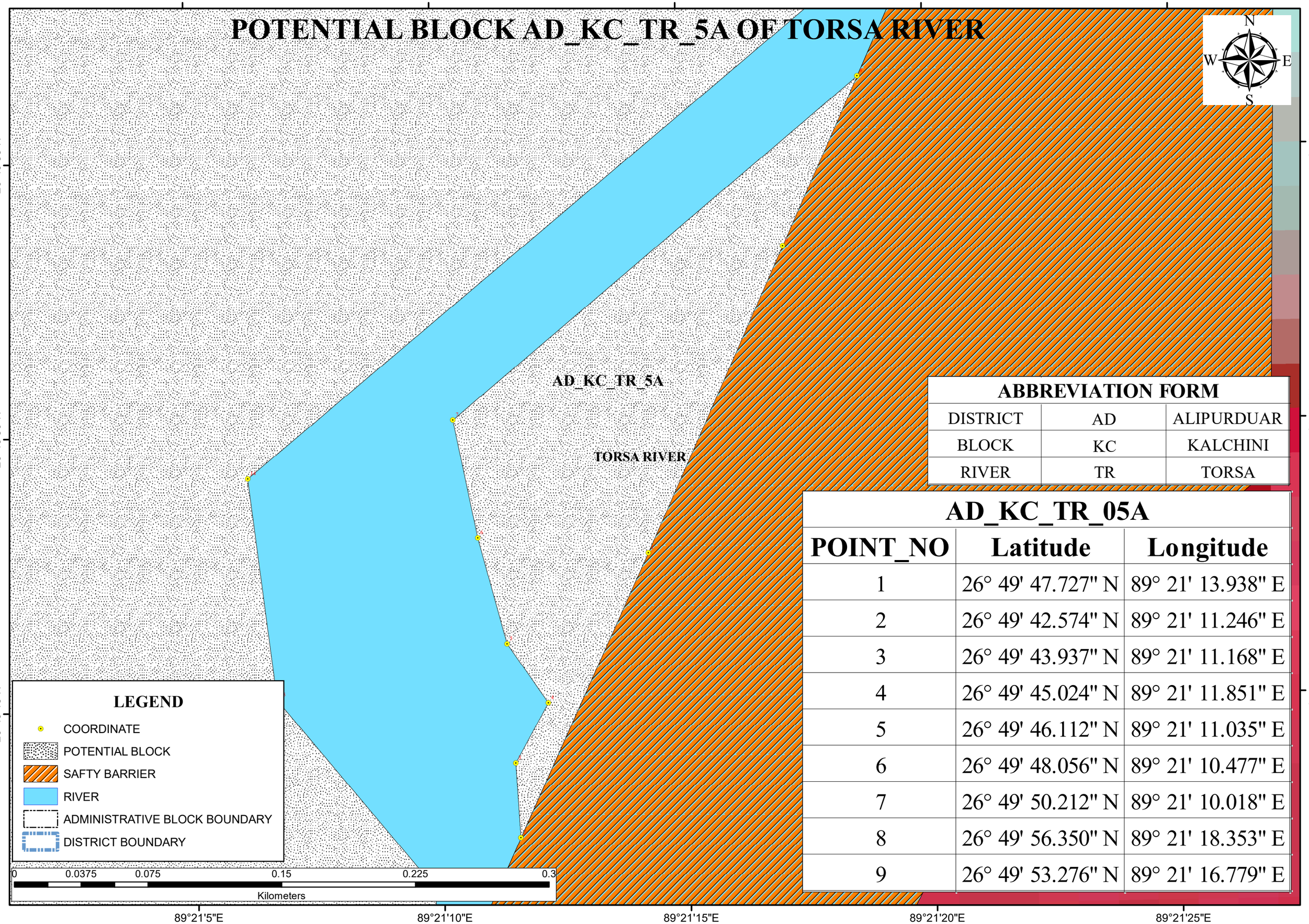
LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.0425 0.085 0.17 0.255 0.34

Kilometers

POTENTIAL BLOCK AD_KC_TR_5A OF TORSA RIVER

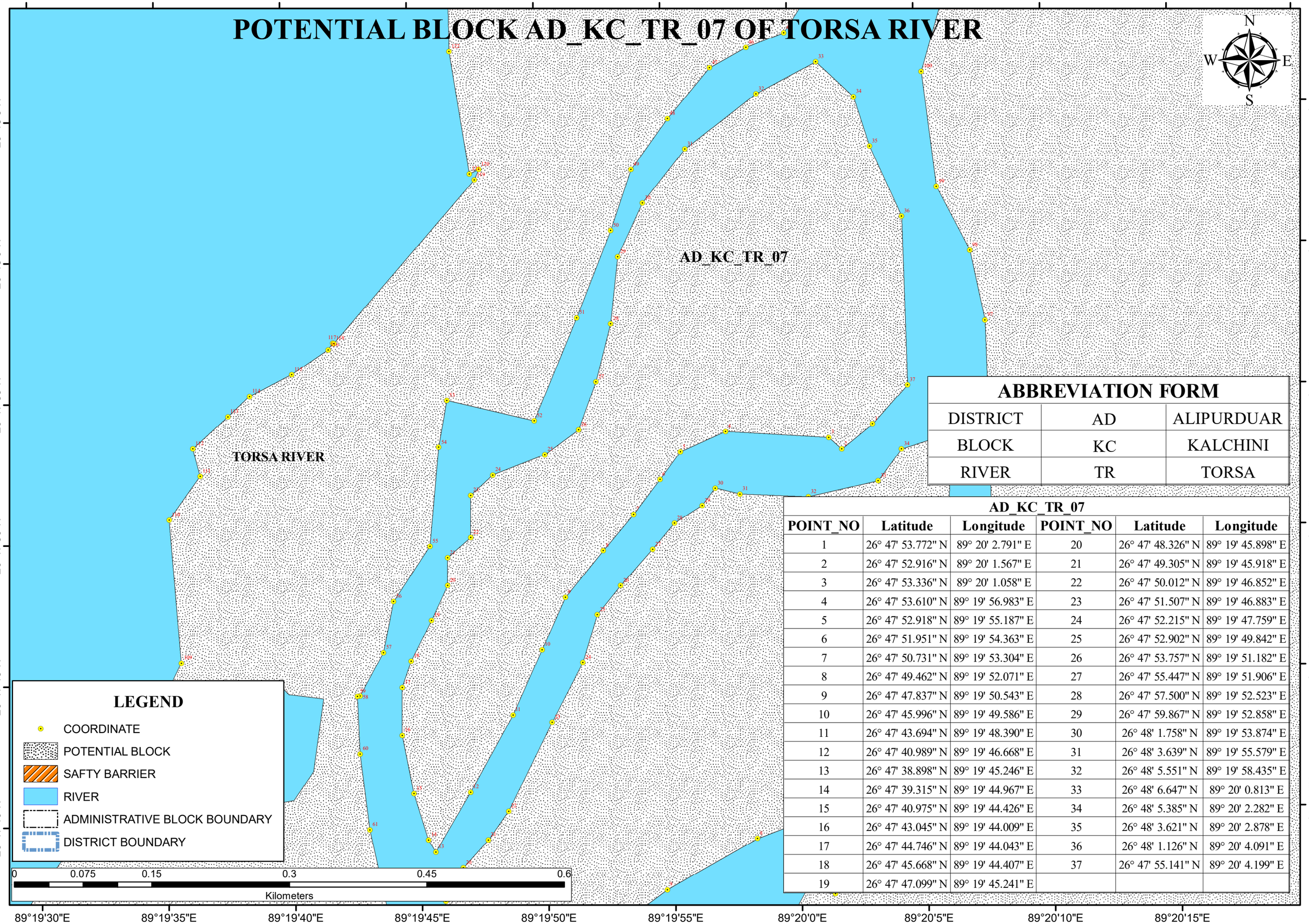


ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	TR	TORSA

AD_KC_TR_05A

POINT_NO	Latitude	Longitude
1	26° 49' 47.727" N	89° 21' 13.938" E
2	26° 49' 42.574" N	89° 21' 11.246" E
3	26° 49' 43.937" N	89° 21' 11.168" E
4	26° 49' 45.024" N	89° 21' 11.851" E
5	26° 49' 46.112" N	89° 21' 11.035" E
6	26° 49' 48.056" N	89° 21' 10.477" E
7	26° 49' 50.212" N	89° 21' 10.018" E
8	26° 49' 56.350" N	89° 21' 18.353" E
9	26° 49' 53.276" N	89° 21' 16.779" E

POTENTIAL BLOCK AD_KC_TR_07 OF TORSA RIVER



LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

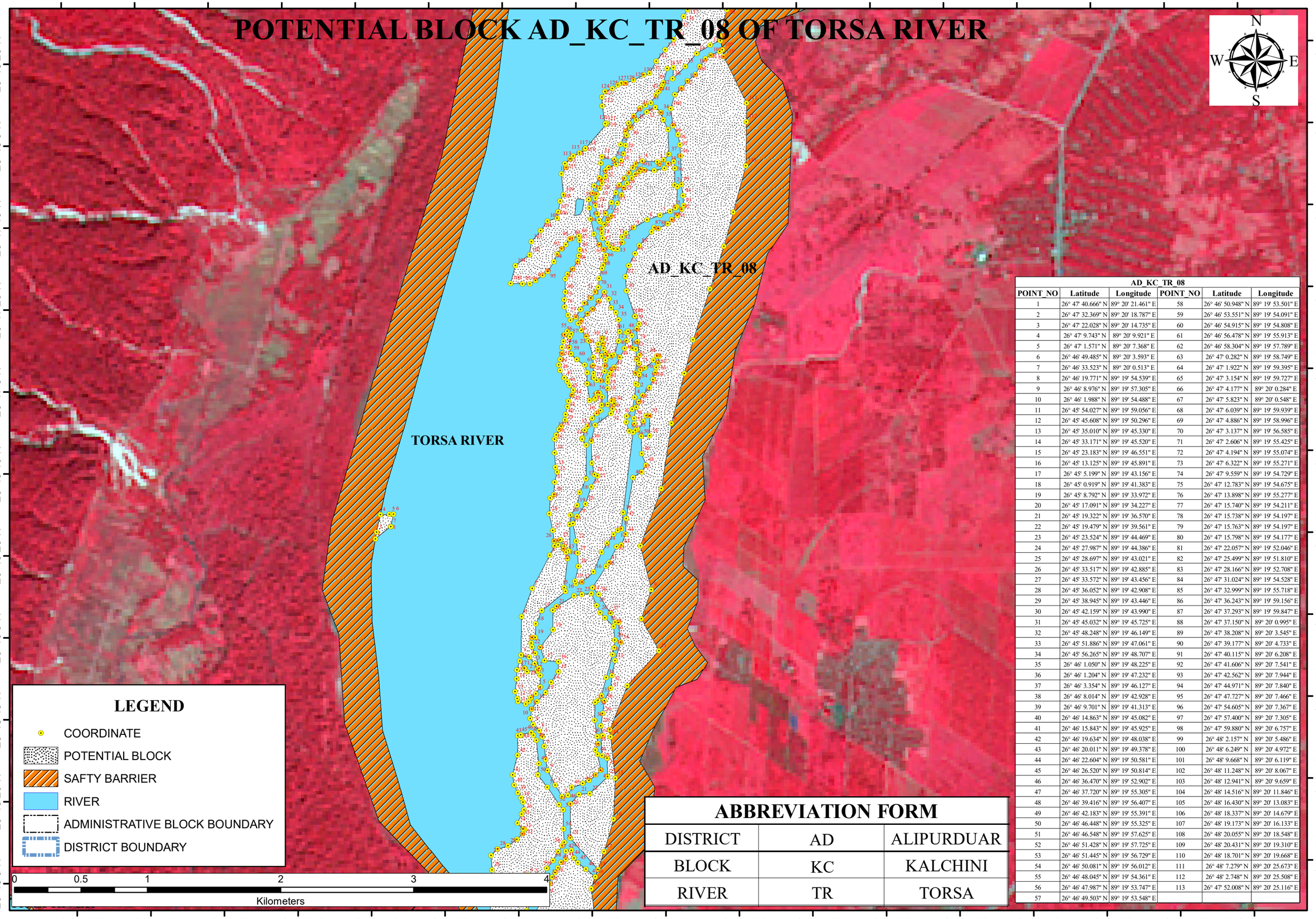
ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	TR	TORSA

AD_KC_TR_07

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 47' 53.772" N	89° 20' 2.791" E	20	26° 47' 48.326" N	89° 19' 45.898" E
2	26° 47' 52.916" N	89° 20' 1.567" E	21	26° 47' 49.305" N	89° 19' 45.918" E
3	26° 47' 53.336" N	89° 20' 1.058" E	22	26° 47' 50.012" N	89° 19' 46.852" E
4	26° 47' 53.610" N	89° 19' 56.983" E	23	26° 47' 51.507" N	89° 19' 46.883" E
5	26° 47' 52.918" N	89° 19' 55.187" E	24	26° 47' 52.215" N	89° 19' 47.759" E
6	26° 47' 51.951" N	89° 19' 54.363" E	25	26° 47' 52.902" N	89° 19' 49.842" E
7	26° 47' 50.731" N	89° 19' 53.304" E	26	26° 47' 53.757" N	89° 19' 51.182" E
8	26° 47' 49.462" N	89° 19' 52.071" E	27	26° 47' 55.447" N	89° 19' 51.906" E
9	26° 47' 47.837" N	89° 19' 50.543" E	28	26° 47' 57.500" N	89° 19' 52.523" E
10	26° 47' 45.996" N	89° 19' 49.586" E	29	26° 47' 59.867" N	89° 19' 52.858" E
11	26° 47' 43.694" N	89° 19' 48.390" E	30	26° 48' 1.758" N	89° 19' 53.874" E
12	26° 47' 40.989" N	89° 19' 46.668" E	31	26° 48' 3.639" N	89° 19' 55.579" E
13	26° 47' 38.898" N	89° 19' 45.246" E	32	26° 48' 5.551" N	89° 19' 58.435" E
14	26° 47' 39.315" N	89° 19' 44.967" E	33	26° 48' 6.647" N	89° 20' 0.813" E
15	26° 47' 40.975" N	89° 19' 44.426" E	34	26° 48' 5.385" N	89° 20' 2.282" E
16	26° 47' 43.045" N	89° 19' 44.009" E	35	26° 48' 3.621" N	89° 20' 2.878" E
17	26° 47' 44.746" N	89° 19' 44.043" E	36	26° 48' 1.126" N	89° 20' 4.091" E
18	26° 47' 45.668" N	89° 19' 44.407" E	37	26° 47' 55.141" N	89° 20' 4.199" E
19	26° 47' 47.099" N	89° 19' 45.241" E			

POTENTIAL BLOCK AD_KC_TR_08 OF TORSA RIVER



LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

AD_KC_TR_08					
POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 47' 40.666" N	89° 20' 21.461" E	58	26° 46' 50.948" N	89° 19' 53.501" E
2	26° 47' 32.369" N	89° 20' 18.787" E	59	26° 46' 53.551" N	89° 19' 54.091" E
3	26° 47' 22.028" N	89° 20' 14.735" E	60	26° 46' 54.915" N	89° 19' 54.808" E
4	26° 47' 9.743" N	89° 20' 9.921" E	61	26° 46' 56.478" N	89° 19' 55.913" E
5	26° 47' 1.571" N	89° 20' 7.368" E	62	26° 46' 58.304" N	89° 19' 57.789" E
6	26° 46' 49.485" N	89° 20' 3.593" E	63	26° 47' 0.282" N	89° 19' 58.749" E
7	26° 46' 33.523" N	89° 20' 0.513" E	64	26° 47' 1.922" N	89° 19' 59.395" E
8	26° 46' 19.771" N	89° 19' 54.539" E	65	26° 47' 3.154" N	89° 19' 59.727" E
9	26° 46' 8.976" N	89° 19' 57.305" E	66	26° 47' 4.177" N	89° 20' 0.284" E
10	26° 46' 1.988" N	89° 19' 54.488" E	67	26° 47' 5.823" N	89° 20' 0.548" E
11	26° 45' 54.027" N	89° 19' 59.056" E	68	26° 47' 6.039" N	89° 19' 59.939" E
12	26° 45' 45.608" N	89° 19' 50.296" E	69	26° 47' 4.886" N	89° 19' 58.996" E
13	26° 45' 35.010" N	89° 19' 45.330" E	70	26° 47' 3.137" N	89° 19' 56.585" E
14	26° 45' 33.171" N	89° 19' 45.520" E	71	26° 47' 2.606" N	89° 19' 55.425" E
15	26° 45' 23.183" N	89° 19' 46.551" E	72	26° 47' 4.194" N	89° 19' 55.074" E
16	26° 45' 13.125" N	89° 19' 45.891" E	73	26° 47' 6.322" N	89° 19' 55.271" E
17	26° 45' 5.199" N	89° 19' 43.156" E	74	26° 47' 9.559" N	89° 19' 54.729" E
18	26° 45' 0.919" N	89° 19' 41.383" E	75	26° 47' 12.783" N	89° 19' 54.675" E
19	26° 45' 8.792" N	89° 19' 33.972" E	76	26° 47' 13.898" N	89° 19' 55.277" E
20	26° 45' 17.091" N	89° 19' 34.227" E	77	26° 47' 15.740" N	89° 19' 54.211" E
21	26° 45' 19.322" N	89° 19' 36.570" E	78	26° 47' 15.738" N	89° 19' 54.197" E
22	26° 45' 19.479" N	89° 19' 39.561" E	79	26° 47' 15.763" N	89° 19' 54.197" E
23	26° 45' 23.524" N	89° 19' 44.469" E	80	26° 47' 15.798" N	89° 19' 54.177" E
24	26° 45' 27.987" N	89° 19' 44.386" E	81	26° 47' 22.057" N	89° 19' 52.046" E
25	26° 45' 28.697" N	89° 19' 43.021" E	82	26° 47' 25.499" N	89° 19' 51.810" E
26	26° 45' 33.517" N	89° 19' 42.885" E	83	26° 47' 28.166" N	89° 19' 52.708" E
27	26° 45' 33.572" N	89° 19' 43.456" E	84	26° 47' 31.024" N	89° 19' 54.528" E
28	26° 45' 36.052" N	89° 19' 42.908" E	85	26° 47' 32.999" N	89° 19' 55.718" E
29	26° 45' 38.945" N	89° 19' 43.446" E	86	26° 47' 36.243" N	89° 19' 59.156" E
30	26° 45' 42.159" N	89° 19' 43.990" E	87	26° 47' 37.293" N	89° 19' 59.847" E
31	26° 45' 45.032" N	89° 19' 45.725" E	88	26° 47' 37.150" N	89° 20' 0.995" E
32	26° 45' 48.248" N	89° 19' 46.149" E	89	26° 47' 38.208" N	89° 20' 3.545" E
33	26° 45' 51.886" N	89° 19' 47.061" E	90	26° 47' 39.177" N	89° 20' 4.733" E
34	26° 45' 56.265" N	89° 19' 48.707" E	91	26° 47' 40.115" N	89° 20' 6.208" E
35	26° 46' 1.050" N	89° 19' 48.225" E	92	26° 47' 41.606" N	89° 20' 7.541" E
36	26° 46' 1.204" N	89° 19' 47.232" E	93	26° 47' 42.562" N	89° 20' 7.944" E
37	26° 46' 3.354" N	89° 19' 46.127" E	94	26° 47' 44.971" N	89° 20' 7.840" E
38	26° 46' 8.014" N	89° 19' 42.928" E	95	26° 47' 47.727" N	89° 20' 7.466" E
39	26° 46' 9.701" N	89° 19' 41.313" E	96	26° 47' 54.605" N	89° 20' 7.367" E
40	26° 46' 14.863" N	89° 19' 45.082" E	97	26° 47' 57.400" N	89° 20' 7.305" E
41	26° 46' 15.843" N	89° 19' 45.925" E	98	26° 47' 59.880" N	89° 20' 6.757" E
42	26° 46' 19.634" N	89° 19' 48.038" E	99	26° 48' 2.157" N	89° 20' 5.486" E
43	26° 46' 20.011" N	89° 19' 49.378" E	100	26° 48' 6.249" N	89° 20' 4.972" E
44	26° 46' 22.604" N	89° 19' 50.581" E	101	26° 48' 9.668" N	89° 20' 6.119" E
45	26° 46' 26.520" N	89° 19' 50.814" E	102	26° 48' 11.248" N	89° 20' 8.067" E
46	26° 46' 36.470" N	89° 19' 52.902" E	103	26° 48' 12.941" N	89° 20' 9.659" E
47	26° 46' 37.720" N	89° 19' 55.305" E	104	26° 48' 14.516" N	89° 20' 11.846" E
48	26° 46' 39.416" N	89° 19' 56.407" E	105	26° 48' 16.430" N	89° 20' 13.083" E
49	26° 46' 42.183" N	89° 19' 55.391" E	106	26° 48' 18.337" N	89° 20' 14.679" E
50	26° 46' 46.448" N	89° 19' 55.325" E	107	26° 48' 19.173" N	89° 20' 16.133" E
51	26° 46' 46.548" N	89° 19' 57.625" E	108	26° 48' 20.055" N	89° 20' 18.548" E
52	26° 46' 51.428" N	89° 19' 57.725" E	109	26° 48' 20.431" N	89° 20' 19.310" E
53	26° 46' 51.445" N	89° 19' 56.729" E	110	26° 48' 18.701" N	89° 20' 19.668" E
54	26° 46' 50.081" N	89° 19' 56.012" E	111	26° 48' 7.279" N	89° 20' 25.673" E
55	26° 46' 48.045" N	89° 19' 54.361" E	112	26° 48' 2.748" N	89° 20' 25.508" E
56	26° 46' 47.987" N	89° 19' 53.747" E	113	26° 47' 52.008" N	89° 20' 25.116" E
57	26° 46' 49.503" N	89° 19' 53.548" E			

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	TR	TORSA

POTENTIAL BLOCK AD_KC_TR_09 OF TORSA RIVER

89°19'40"E 89°20'0"E 89°20'20"E

26°47'40"N

N W E S

AD_KC_TR_09

TORSA RIVER

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	TR	TORSA

AD_KC_TR_09

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 47' 51.711" N	89° 20' 5.795" E	19	26° 47' 37.139" N	89° 19' 45.612" E
2	26° 47' 47.640" N	89° 20' 5.597" E	20	26° 47' 38.313" N	89° 19' 46.326" E
3	26° 47' 47.215" N	89° 20' 6.335" E	21	26° 47' 39.277" N	89° 19' 47.322" E
4	26° 47' 42.319" N	89° 20' 6.120" E	22	26° 47' 40.295" N	89° 19' 48.148" E
5	26° 47' 41.965" N	89° 20' 5.710" E	23	26° 47' 43.411" N	89° 19' 49.936" E
6	26° 47' 41.163" N	89° 20' 4.315" E	24	26° 47' 45.505" N	89° 19' 51.185" E
7	26° 47' 40.332" N	89° 20' 1.539" E	25	26° 47' 47.197" N	89° 19' 51.795" E
8	26° 47' 39.153" N	89° 19' 57.952" E	26	26° 47' 48.213" N	89° 19' 52.735" E
9	26° 47' 37.407" N	89° 19' 54.353" E	27	26° 47' 49.481" N	89° 19' 54.025" E
10	26° 47' 36.050" N	89° 19' 52.199" E	28	26° 47' 50.395" N	89° 19' 54.906" E
11	26° 47' 35.191" N	89° 19' 51.147" E	29	26° 47' 50.996" N	89° 19' 56.010" E
12	26° 47' 33.849" N	89° 19' 51.177" E	30	26° 47' 51.606" N	89° 19' 56.540" E
13	26° 47' 32.170" N	89° 19' 49.821" E	31	26° 47' 51.384" N	89° 19' 57.512" E
14	26° 47' 32.237" N	89° 19' 48.845" E	32	26° 47' 51.236" N	89° 20' 0.211" E
15	26° 47' 32.718" N	89° 19' 47.878" E	33	26° 47' 51.758" N	89° 20' 2.980" E
16	26° 47' 33.710" N	89° 19' 47.094" E	34	26° 47' 52.877" N	89° 20' 3.922" E
17	26° 47' 34.969" N	89° 19' 45.798" E	35	26° 47' 53.314" N	89° 20' 5.540" E
18	26° 47' 36.160" N	89° 19' 45.535" E			

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.05 0.1 0.2 0.3 0.4

Kilometers

POTENTIAL BLOCK AD_KC_TR_10 OF TORSA RIVER

89°19'40"E

89°20'0"E

26°47'20"N

26°47'0"N

AD_KC_TR_10

TORSA RIVER

N

W

E

S

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	TR	TORSA

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

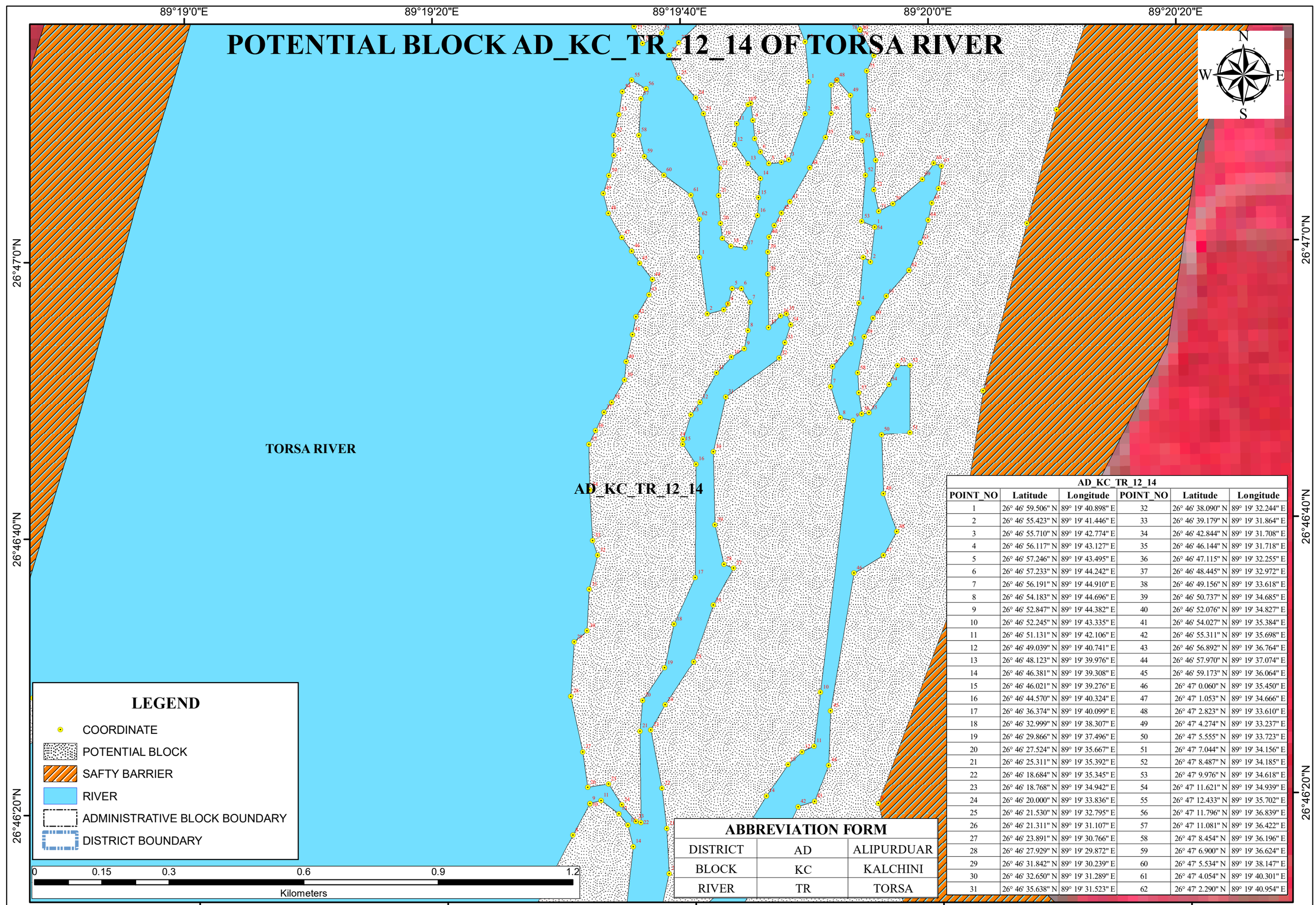
0 0.05 0.1 0.2 0.3 0.4

Kilometers

AD_KC_TR_10

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 47' 12.094" N	89° 19' 49.985" E	19	26° 47' 0.866" N	89° 19' 42.783" E
2	26° 47' 9.762" N	89° 19' 49.631" E	20	26° 47' 1.969" N	89° 19' 42.653" E
3	26° 47' 6.484" N	89° 19' 48.261" E	21	26° 47' 3.965" N	89° 19' 42.540" E
4	26° 47' 6.288" N	89° 19' 47.644" E	22	26° 47' 5.957" N	89° 19' 42.657" E
5	26° 47' 6.235" N	89° 19' 46.647" E	23	26° 47' 9.897" N	89° 19' 41.435" E
6	26° 47' 7.072" N	89° 19' 45.975" E	24	26° 47' 11.076" N	89° 19' 40.846" E
7	26° 47' 8.042" N	89° 19' 45.535" E	25	26° 47' 12.542" N	89° 19' 39.497" E
8	26° 47' 9.350" N	89° 19' 45.408" E	26	26° 47' 14.204" N	89° 19' 38.765" E
9	26° 47' 10.590" N	89° 19' 45.281" E	27	26° 47' 15.085" N	89° 19' 39.549" E
10	26° 47' 10.525" N	89° 19' 45.049" E	28	26° 47' 16.570" N	89° 19' 41.265" E
11	26° 47' 9.165" N	89° 19' 44.102" E	29	26° 47' 17.715" N	89° 19' 42.744" E
12	26° 47' 7.656" N	89° 19' 43.918" E	30	26° 47' 19.613" N	89° 19' 44.392" E
13	26° 47' 6.263" N	89° 19' 44.962" E	31	26° 47' 21.856" N	89° 19' 45.970" E
14	26° 47' 5.147" N	89° 19' 45.936" E	32	26° 47' 20.118" N	89° 19' 47.161" E
15	26° 47' 3.774" N	89° 19' 45.754" E	33	26° 47' 17.907" N	89° 19' 47.805" E
16	26° 47' 2.470" N	89° 19' 45.651" E	34	26° 47' 16.718" N	89° 19' 49.007" E
17	26° 47' 0.149" N	89° 19' 44.608" E	35	26° 47' 14.987" N	89° 19' 49.738" E
18	26° 47' 0.305" N	89° 19' 43.461" E			

POTENTIAL BLOCK AD_KC_TR_12_14 OF TORSA RIVER



LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

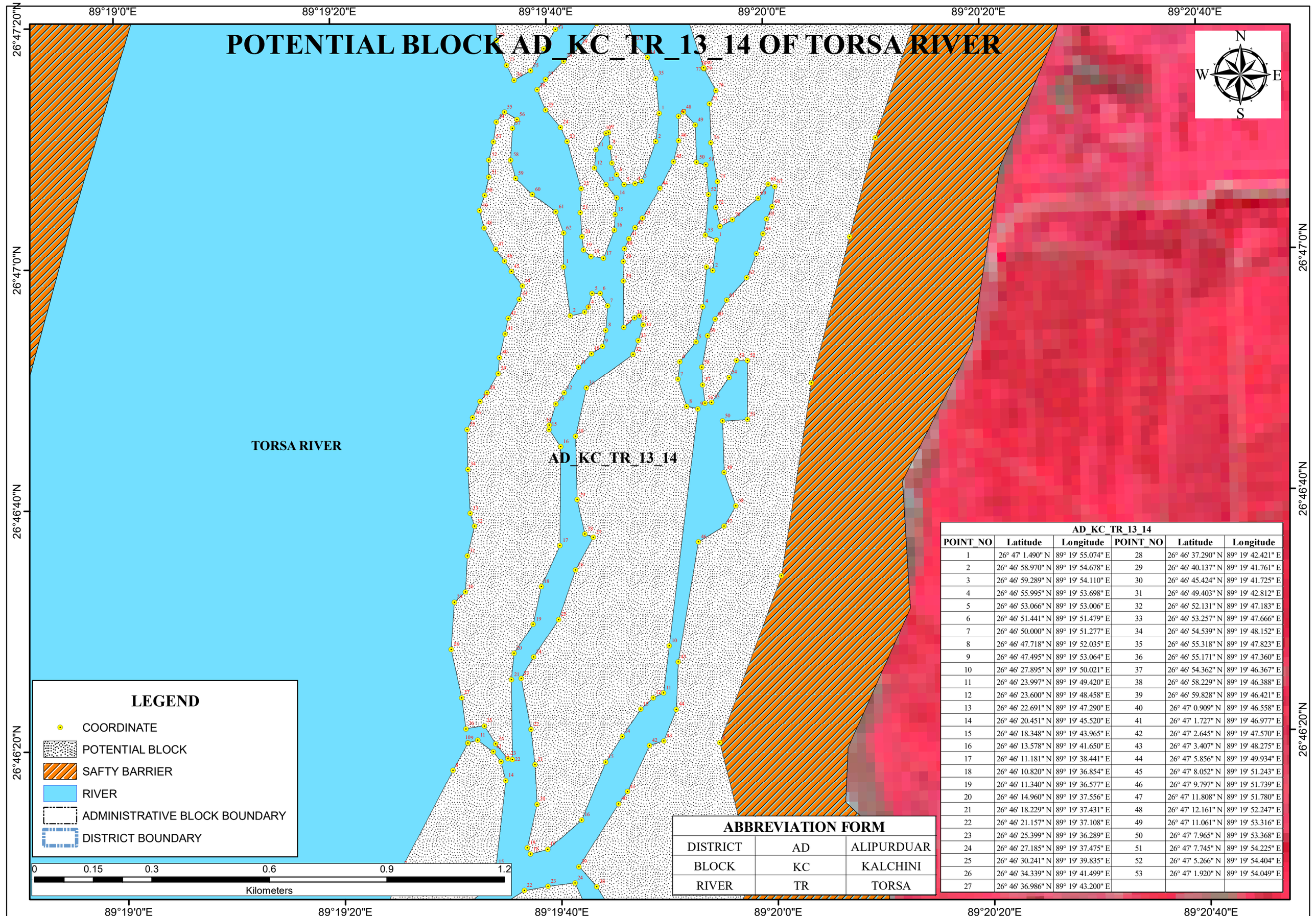
ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	TR	TORSA

AD_KC_TR_12_14

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 46' 59.506" N	89° 19' 40.898" E	32	26° 46' 38.090" N	89° 19' 32.244" E
2	26° 46' 55.423" N	89° 19' 41.446" E	33	26° 46' 39.179" N	89° 19' 31.864" E
3	26° 46' 55.710" N	89° 19' 42.774" E	34	26° 46' 42.844" N	89° 19' 31.708" E
4	26° 46' 56.117" N	89° 19' 43.127" E	35	26° 46' 46.144" N	89° 19' 31.718" E
5	26° 46' 57.246" N	89° 19' 43.495" E	36	26° 46' 47.115" N	89° 19' 32.255" E
6	26° 46' 57.233" N	89° 19' 44.242" E	37	26° 46' 48.445" N	89° 19' 32.972" E
7	26° 46' 56.191" N	89° 19' 44.910" E	38	26° 46' 49.156" N	89° 19' 33.618" E
8	26° 46' 54.183" N	89° 19' 44.696" E	39	26° 46' 50.737" N	89° 19' 34.685" E
9	26° 46' 52.847" N	89° 19' 44.382" E	40	26° 46' 52.076" N	89° 19' 34.827" E
10	26° 46' 52.245" N	89° 19' 43.335" E	41	26° 46' 54.027" N	89° 19' 35.384" E
11	26° 46' 51.131" N	89° 19' 42.106" E	42	26° 46' 55.311" N	89° 19' 35.698" E
12	26° 46' 49.039" N	89° 19' 40.741" E	43	26° 46' 56.892" N	89° 19' 36.764" E
13	26° 46' 48.123" N	89° 19' 39.976" E	44	26° 46' 57.970" N	89° 19' 37.074" E
14	26° 46' 46.381" N	89° 19' 39.308" E	45	26° 46' 59.173" N	89° 19' 36.064" E
15	26° 46' 46.021" N	89° 19' 39.276" E	46	26° 47' 0.060" N	89° 19' 35.450" E
16	26° 46' 44.570" N	89° 19' 40.324" E	47	26° 47' 1.053" N	89° 19' 34.666" E
17	26° 46' 36.374" N	89° 19' 40.099" E	48	26° 47' 2.823" N	89° 19' 33.610" E
18	26° 46' 32.999" N	89° 19' 38.307" E	49	26° 47' 4.274" N	89° 19' 33.237" E
19	26° 46' 29.866" N	89° 19' 37.496" E	50	26° 47' 5.555" N	89° 19' 33.723" E
20	26° 46' 27.524" N	89° 19' 35.667" E	51	26° 47' 7.044" N	89° 19' 34.156" E
21	26° 46' 25.311" N	89° 19' 35.392" E	52	26° 47' 8.487" N	89° 19' 34.185" E
22	26° 46' 18.684" N	89° 19' 35.345" E	53	26° 47' 9.976" N	89° 19' 34.618" E
23	26° 46' 18.768" N	89° 19' 34.942" E	54	26° 47' 11.621" N	89° 19' 34.939" E
24	26° 46' 20.000" N	89° 19' 33.836" E	55	26° 47' 12.433" N	89° 19' 35.702" E
25	26° 46' 21.530" N	89° 19' 32.795" E	56	26° 47' 11.796" N	89° 19' 36.839" E
26	26° 46' 21.311" N	89° 19' 31.107" E	57	26° 47' 11.081" N	89° 19' 36.422" E
27	26° 46' 23.891" N	89° 19' 30.766" E	58	26° 47' 8.454" N	89° 19' 36.196" E
28	26° 46' 27.929" N	89° 19' 29.872" E	59	26° 47' 6.900" N	89° 19' 36.624" E
29	26° 46' 31.842" N	89° 19' 30.239" E	60	26° 47' 5.534" N	89° 19' 38.147" E
30	26° 46' 32.650" N	89° 19' 31.289" E	61	26° 47' 4.054" N	89° 19' 40.301" E
31	26° 46' 35.638" N	89° 19' 31.523" E	62	26° 47' 2.290" N	89° 19' 40.954" E

POTENTIAL BLOCK AD_KC_TR_13_14 OF TORSA RIVER



LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.15 0.3 0.6 0.9 1.2
Kilometers

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	TR	TORSA

AD_KC_TR_13_14					
POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 47' 1.490" N	89° 19' 55.074" E	28	26° 46' 37.290" N	89° 19' 42.421" E
2	26° 46' 58.970" N	89° 19' 54.678" E	29	26° 46' 40.137" N	89° 19' 41.761" E
3	26° 46' 59.289" N	89° 19' 54.110" E	30	26° 46' 45.424" N	89° 19' 41.725" E
4	26° 46' 55.995" N	89° 19' 53.698" E	31	26° 46' 49.403" N	89° 19' 42.812" E
5	26° 46' 53.066" N	89° 19' 53.006" E	32	26° 46' 52.131" N	89° 19' 47.183" E
6	26° 46' 51.441" N	89° 19' 51.479" E	33	26° 46' 53.257" N	89° 19' 47.666" E
7	26° 46' 50.000" N	89° 19' 51.277" E	34	26° 46' 54.539" N	89° 19' 48.152" E
8	26° 46' 47.718" N	89° 19' 52.035" E	35	26° 46' 55.318" N	89° 19' 47.823" E
9	26° 46' 47.495" N	89° 19' 53.064" E	36	26° 46' 55.171" N	89° 19' 47.360" E
10	26° 46' 27.895" N	89° 19' 50.021" E	37	26° 46' 54.362" N	89° 19' 46.367" E
11	26° 46' 23.997" N	89° 19' 49.420" E	38	26° 46' 58.229" N	89° 19' 46.388" E
12	26° 46' 23.600" N	89° 19' 48.458" E	39	26° 46' 59.828" N	89° 19' 46.421" E
13	26° 46' 22.691" N	89° 19' 47.290" E	40	26° 47' 0.909" N	89° 19' 46.558" E
14	26° 46' 20.451" N	89° 19' 45.520" E	41	26° 47' 1.727" N	89° 19' 46.977" E
15	26° 46' 18.348" N	89° 19' 43.965" E	42	26° 47' 2.645" N	89° 19' 47.570" E
16	26° 46' 13.578" N	89° 19' 41.650" E	43	26° 47' 3.407" N	89° 19' 48.275" E
17	26° 46' 11.181" N	89° 19' 38.441" E	44	26° 47' 5.856" N	89° 19' 49.934" E
18	26° 46' 10.820" N	89° 19' 36.854" E	45	26° 47' 8.052" N	89° 19' 51.243" E
19	26° 46' 11.340" N	89° 19' 36.577" E	46	26° 47' 9.797" N	89° 19' 51.739" E
20	26° 46' 14.960" N	89° 19' 37.556" E	47	26° 47' 11.808" N	89° 19' 51.780" E
21	26° 46' 18.229" N	89° 19' 37.431" E	48	26° 47' 12.161" N	89° 19' 52.247" E
22	26° 46' 21.157" N	89° 19' 37.108" E	49	26° 47' 11.061" N	89° 19' 53.316" E
23	26° 46' 25.399" N	89° 19' 36.289" E	50	26° 47' 7.965" N	89° 19' 53.368" E
24	26° 46' 27.185" N	89° 19' 37.475" E	51	26° 47' 7.745" N	89° 19' 54.225" E
25	26° 46' 30.241" N	89° 19' 39.835" E	52	26° 47' 5.266" N	89° 19' 54.404" E
26	26° 46' 34.339" N	89° 19' 41.499" E	53	26° 47' 1.920" N	89° 19' 54.049" E
27	26° 46' 36.986" N	89° 19' 43.200" E			

POTENTIAL BLOCK AD_KC_TR_15 OF TORSA RIVER

89°19'20"E 89°19'40"E 89°20'0"E

26°46'20"N 26°46'0"N

N W E S

AD_KC_TR_15

TORSA RIVER

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.075 0.15 0.3 0.45 0.6

Kilometers

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	TR	TORSA

AD_KC_TR_15

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 45' 50.284" N	89° 19' 26.404" E	13	26° 46' 18.527" N	89° 19' 34.296" E
2	26° 45' 50.034" N	89° 19' 25.794" E	14	26° 46' 16.962" N	89° 19' 34.686" E
3	26° 45' 51.528" N	89° 19' 25.226" E	15	26° 46' 9.813" N	89° 19' 33.640" E
4	26° 45' 52.982" N	89° 19' 23.730" E	16	26° 46' 8.874" N	89° 19' 33.996" E
5	26° 45' 53.548" N	89° 19' 21.538" E	17	26° 46' 4.347" N	89° 19' 27.438" E
6	26° 46' 2.994" N	89° 19' 21.894" E	18	26° 46' 1.127" N	89° 19' 25.706" E
7	26° 46' 9.804" N	89° 19' 24.906" E	19	26° 45' 57.866" N	89° 19' 25.474" E
8	26° 46' 17.872" N	89° 19' 29.839" E	20	26° 45' 57.835" N	89° 19' 24.576" E
9	26° 46' 20.118" N	89° 19' 31.264" E	21	26° 45' 56.455" N	89° 19' 24.336" E
10	26° 46' 20.147" N	89° 19' 31.260" E	22	26° 45' 55.579" N	89° 19' 24.542" E
11	26° 46' 20.338" N	89° 19' 32.159" E	23	26° 45' 53.961" N	89° 19' 25.441" E
12	26° 46' 19.355" N	89° 19' 33.595" E			

POTENTIAL BLOCK AD_KC_TR_16_17 OF TORSA RIVER

89°19'0"E 89°19'20"E 89°19'40"E 89°20'0"E 89°20'20"E

26°46'0"N

26°45'40"N

26°45'20"N

N W E S

AD_KC_TR_16_17

TORSA RIVER

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	TR	TORSA

AD_KC_TR_16_17					
POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 45' 19.198" N	89° 19' 33.595" E	24	26° 46' 8.355" N	89° 19' 40.909" E
2	26° 45' 18.881" N	89° 19' 31.961" E	25	26° 46' 5.385" N	89° 19' 42.388" E
3	26° 45' 21.746" N	89° 19' 30.200" E	26	26° 46' 3.564" N	89° 19' 43.309" E
4	26° 45' 25.304" N	89° 19' 28.166" E	27	26° 46' 2.341" N	89° 19' 44.529" E
5	26° 45' 27.976" N	89° 19' 27.741" E	28	26° 46' 0.143" N	89° 19' 46.870" E
6	26° 45' 31.247" N	89° 19' 27.425" E	29	26° 45' 56.838" N	89° 19' 47.109" E
7	26° 45' 33.577" N	89° 19' 26.898" E	30	26° 45' 54.983" N	89° 19' 46.995" E
8	26° 45' 35.052" N	89° 19' 26.066" E	31	26° 45' 53.274" N	89° 19' 46.424" E
9	26° 45' 36.625" N	89° 19' 24.470" E	32	26° 45' 47.733" N	89° 19' 44.625" E
10	26° 45' 38.098" N	89° 19' 23.734" E	33	26° 45' 43.424" N	89° 19' 43.235" E
11	26° 45' 40.326" N	89° 19' 24.163" E	34	26° 45' 42.201" N	89° 19' 42.291" E
12	26° 45' 42.193" N	89° 19' 25.637" E	35	26° 45' 41.734" N	89° 19' 41.439" E
13	26° 45' 44.302" N	89° 19' 28.074" E	36	26° 45' 37.406" N	89° 19' 41.197" E
14	26° 45' 46.771" N	89° 19' 29.560" E	37	26° 45' 33.406" N	89° 19' 41.882" E
15	26° 45' 49.401" N	89° 19' 31.625" E	38	26° 45' 31.546" N	89° 19' 42.074" E
16	26° 45' 51.807" N	89° 19' 31.674" E	39	26° 45' 30.074" N	89° 19' 41.285" E
17	26° 45' 52.202" N	89° 19' 27.940" E	40	26° 45' 29.034" N	89° 19' 41.839" E
18	26° 45' 55.452" N	89° 19' 26.857" E	41	26° 45' 25.153" N	89° 19' 42.621" E
19	26° 45' 59.538" N	89° 19' 30.344" E	42	26° 45' 23.972" N	89° 19' 41.257" E
20	26° 46' 4.383" N	89° 19' 30.418" E	43	26° 45' 22.713" N	89° 19' 39.412" E
21	26° 46' 5.279" N	89° 19' 31.424" E	44	26° 45' 21.967" N	89° 19' 37.673" E
22	26° 46' 7.813" N	89° 19' 36.225" E	45	26° 45' 21.071" N	89° 19' 34.686" E
23	26° 46' 8.115" N	89° 19' 38.422" E			

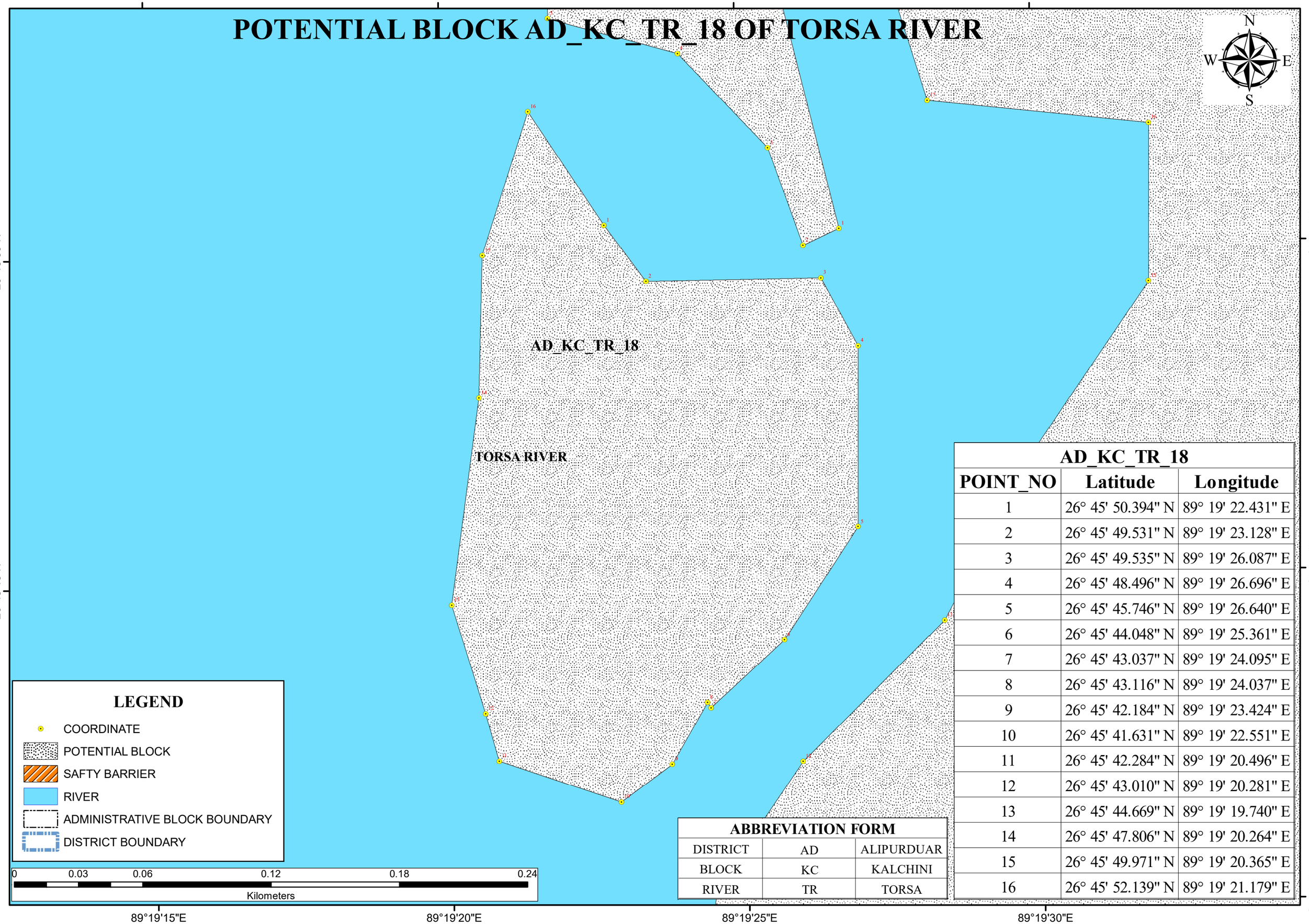
LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.15 0.3 0.6 0.9 1.2

Kilometers

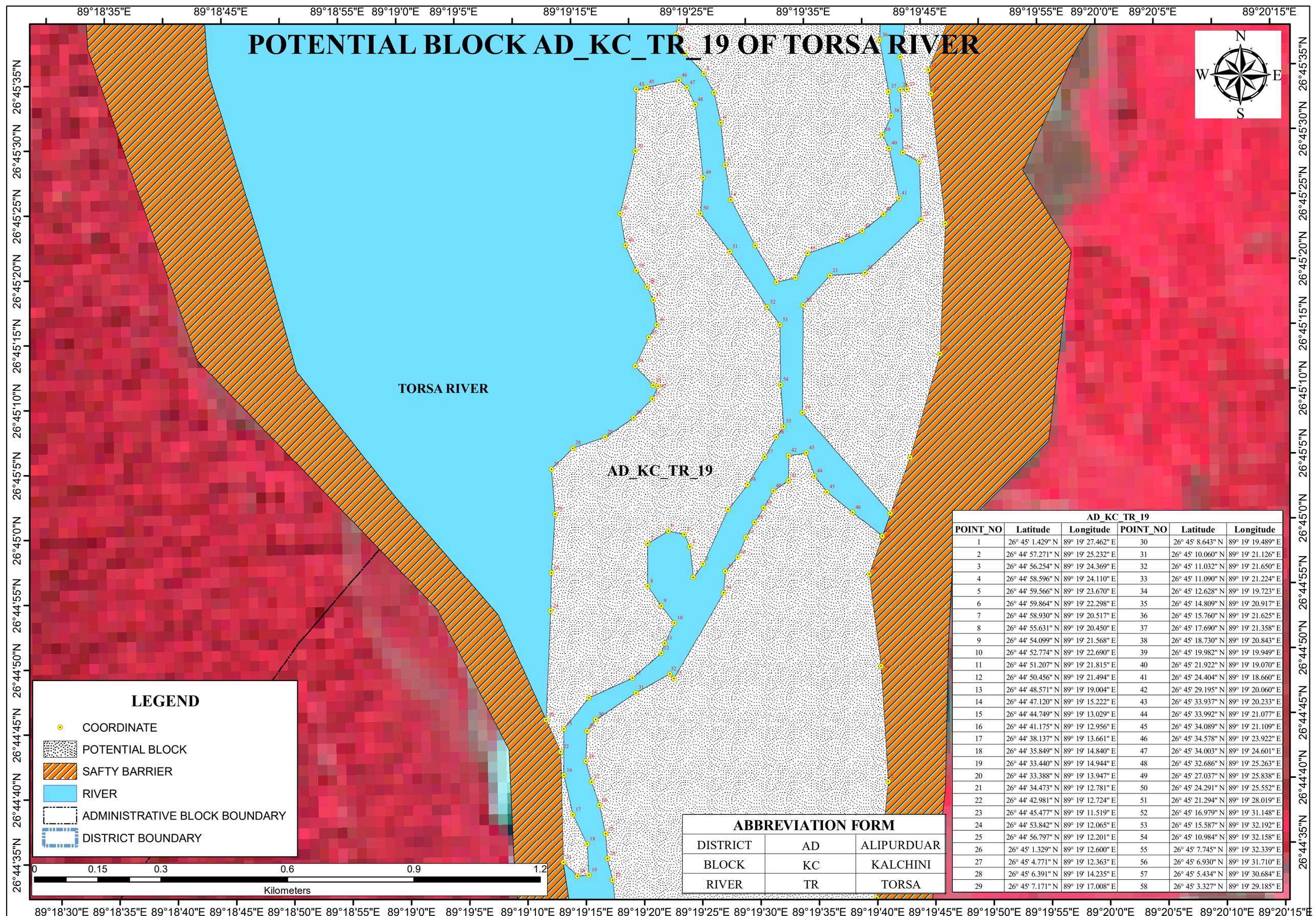
POTENTIAL BLOCK AD_KC_TR_18 OF TORSA RIVER



ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	TR	TORSA

AD_KC_TR_18		
POINT_NO	Latitude	Longitude
1	26° 45' 50.394" N	89° 19' 22.431" E
2	26° 45' 49.531" N	89° 19' 23.128" E
3	26° 45' 49.535" N	89° 19' 26.087" E
4	26° 45' 48.496" N	89° 19' 26.696" E
5	26° 45' 45.746" N	89° 19' 26.640" E
6	26° 45' 44.048" N	89° 19' 25.361" E
7	26° 45' 43.037" N	89° 19' 24.095" E
8	26° 45' 43.116" N	89° 19' 24.037" E
9	26° 45' 42.184" N	89° 19' 23.424" E
10	26° 45' 41.631" N	89° 19' 22.551" E
11	26° 45' 42.284" N	89° 19' 20.496" E
12	26° 45' 43.010" N	89° 19' 20.281" E
13	26° 45' 44.669" N	89° 19' 19.740" E
14	26° 45' 47.806" N	89° 19' 20.264" E
15	26° 45' 49.971" N	89° 19' 20.365" E
16	26° 45' 52.139" N	89° 19' 21.179" E

POTENTIAL BLOCK AD_KC_TR_19 OF TORSA RIVER



LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.15 0.3 0.6 0.9 1.2

Kilometers

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	TR	TORSA

AD_KC_TR_19

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 45' 1.429" N	89° 19' 27.462" E	30	26° 45' 8.643" N	89° 19' 19.489" E
2	26° 44' 57.271" N	89° 19' 25.232" E	31	26° 45' 10.060" N	89° 19' 21.126" E
3	26° 44' 56.254" N	89° 19' 24.369" E	32	26° 45' 11.032" N	89° 19' 21.650" E
4	26° 44' 58.596" N	89° 19' 24.110" E	33	26° 45' 11.090" N	89° 19' 21.224" E
5	26° 44' 59.566" N	89° 19' 23.670" E	34	26° 45' 12.628" N	89° 19' 19.723" E
6	26° 44' 59.864" N	89° 19' 22.298" E	35	26° 45' 14.809" N	89° 19' 20.917" E
7	26° 44' 58.930" N	89° 19' 20.517" E	36	26° 45' 15.760" N	89° 19' 21.625" E
8	26° 44' 55.631" N	89° 19' 20.450" E	37	26° 45' 17.690" N	89° 19' 21.358" E
9	26° 44' 54.099" N	89° 19' 21.568" E	38	26° 45' 18.730" N	89° 19' 20.843" E
10	26° 44' 52.774" N	89° 19' 22.690" E	39	26° 45' 19.982" N	89° 19' 19.949" E
11	26° 44' 51.207" N	89° 19' 21.815" E	40	26° 45' 21.922" N	89° 19' 19.070" E
12	26° 44' 50.456" N	89° 19' 21.494" E	41	26° 45' 24.404" N	89° 19' 18.660" E
13	26° 44' 48.571" N	89° 19' 19.004" E	42	26° 45' 29.195" N	89° 19' 20.060" E
14	26° 44' 47.120" N	89° 19' 15.222" E	43	26° 45' 33.937" N	89° 19' 20.233" E
15	26° 44' 44.749" N	89° 19' 13.029" E	44	26° 45' 33.992" N	89° 19' 21.077" E
16	26° 44' 41.175" N	89° 19' 12.956" E	45	26° 45' 34.089" N	89° 19' 21.109" E
17	26° 44' 38.137" N	89° 19' 13.661" E	46	26° 45' 34.578" N	89° 19' 23.922" E
18	26° 44' 35.849" N	89° 19' 14.840" E	47	26° 45' 34.003" N	89° 19' 24.601" E
19	26° 44' 33.440" N	89° 19' 14.944" E	48	26° 45' 32.686" N	89° 19' 25.263" E
20	26° 44' 33.388" N	89° 19' 13.947" E	49	26° 45' 27.037" N	89° 19' 25.838" E
21	26° 44' 34.473" N	89° 19' 12.781" E	50	26° 45' 24.291" N	89° 19' 25.552" E
22	26° 44' 42.981" N	89° 19' 12.724" E	51	26° 45' 21.294" N	89° 19' 28.019" E
23	26° 44' 45.477" N	89° 19' 11.519" E	52	26° 45' 16.979" N	89° 19' 31.148" E
24	26° 44' 53.842" N	89° 19' 12.065" E	53	26° 45' 15.587" N	89° 19' 32.192" E
25	26° 44' 56.797" N	89° 19' 12.201" E	54	26° 45' 10.984" N	89° 19' 32.158" E
26	26° 45' 1.329" N	89° 19' 12.600" E	55	26° 45' 7.745" N	89° 19' 32.339" E
27	26° 45' 4.771" N	89° 19' 12.363" E	56	26° 45' 6.930" N	89° 19' 31.710" E
28	26° 45' 6.391" N	89° 19' 14.235" E	57	26° 45' 5.434" N	89° 19' 30.684" E
29	26° 45' 7.171" N	89° 19' 17.008" E	58	26° 45' 3.327" N	89° 19' 29.185" E

POTENTIAL BLOCK AD_KC_TR_21 OF TORSA RIVER



LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.15 0.3 0.6 0.9 1.2

Kilometers

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	TR	TORSA

AD_KC_TR_21

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 44' 49.161" N	89° 19' 40.341" E	18	26° 44' 25.890" N	89° 19' 20.899" E	35	26° 44' 56.664" N	89° 19' 27.116" E
2	26° 44' 40.247" N	89° 19' 40.766" E	19	26° 44' 27.346" N	89° 19' 20.162" E	36	26° 44' 57.746" N	89° 19' 28.210" E
3	26° 44' 31.278" N	89° 19' 39.592" E	20	26° 44' 29.007" N	89° 19' 19.507" E	37	26° 44' 59.248" N	89° 19' 28.930" E
4	26° 44' 24.807" N	89° 19' 36.896" E	21	26° 44' 29.102" N	89° 19' 17.900" E	38	26° 45' 0.404" N	89° 19' 29.719" E
5	26° 44' 20.594" N	89° 19' 33.505" E	22	26° 44' 30.006" N	89° 19' 17.306" E	39	26° 45' 1.491" N	89° 19' 30.508" E
6	26° 44' 19.296" N	89° 19' 33.019" E	23	26° 44' 33.037" N	89° 19' 16.984" E	40	26° 45' 2.783" N	89° 19' 31.376" E
7	26° 44' 17.933" N	89° 19' 32.225" E	24	26° 44' 34.694" N	89° 19' 16.559" E	41	26° 45' 3.587" N	89° 19' 32.695" E
8	26° 44' 16.711" N	89° 19' 31.281" E	25	26° 44' 36.622" N	89° 19' 16.445" E	42	26° 45' 5.512" N	89° 19' 32.734" E
9	26° 44' 15.571" N	89° 19' 29.496" E	26	26° 44' 38.830" N	89° 19' 15.953" E	43	26° 45' 5.693" N	89° 19' 34.270" E
10	26° 44' 14.635" N	89° 19' 27.869" E	27	26° 44' 40.629" N	89° 19' 15.300" E	44	26° 45' 3.894" N	89° 19' 34.922" E
11	26° 44' 13.221" N	89° 19' 26.079" E	28	26° 44' 42.217" N	89° 19' 14.873" E	45	26° 45' 2.639" N	89° 19' 35.969" E
12	26° 44' 13.649" N	89° 19' 25.092" E	29	26° 44' 44.554" N	89° 19' 14.997" E	46	26° 45' 1.022" N	89° 19' 38.158" E
13	26° 44' 15.243" N	89° 19' 24.358" E	30	26° 44' 45.435" N	89° 19' 15.781" E	47	26° 44' 59.193" N	89° 19' 40.648" E
14	26° 44' 17.529" N	89° 19' 23.333" E	31	26° 44' 47.441" N	89° 19' 19.269" E	48	26° 44' 59.181" N	89° 19' 40.662" E
15	26° 44' 19.472" N	89° 19' 22.300" E	32	26° 44' 48.836" N	89° 19' 22.208" E	49	26° 44' 56.268" N	89° 19' 39.456" E
16	26° 44' 21.828" N	89° 19' 21.199" E	33	26° 44' 48.494" N	89° 19' 22.542" E			
17	26° 44' 24.032" N	89° 19' 20.937" E	34	26° 44' 55.017" N	89° 19' 26.929" E			

POTENTIAL BLOCK AD_KC_TR_22 OF TORSA RIVER

89°19'10"E 89°19'20"E 89°19'30"E

26°44'30"N 26°44'20"N

N W E S

AD_KC_TR_22

TORSA RIVER

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	TR	TORSA

AD_KC_TR_22

POINT_NO	Latitude	Longitude
1	26° 44' 20.550" N	89° 19' 18.857" E
2	26° 44' 17.762" N	89° 19' 18.258" E
3	26° 44' 21.457" N	89° 19' 17.320" E
4	26° 44' 22.141" N	89° 19' 16.489" E
5	26° 44' 22.725" N	89° 19' 16.221" E
6	26° 44' 24.821" N	89° 19' 14.221" E
7	26° 44' 30.592" N	89° 19' 13.337" E
8	26° 44' 29.358" N	89° 19' 14.287" E
9	26° 44' 28.531" N	89° 19' 14.424" E
10	26° 44' 26.870" N	89° 19' 15.079" E
11	26° 44' 24.855" N	89° 19' 16.340" E
12	26° 44' 22.911" N	89° 19' 17.450" E

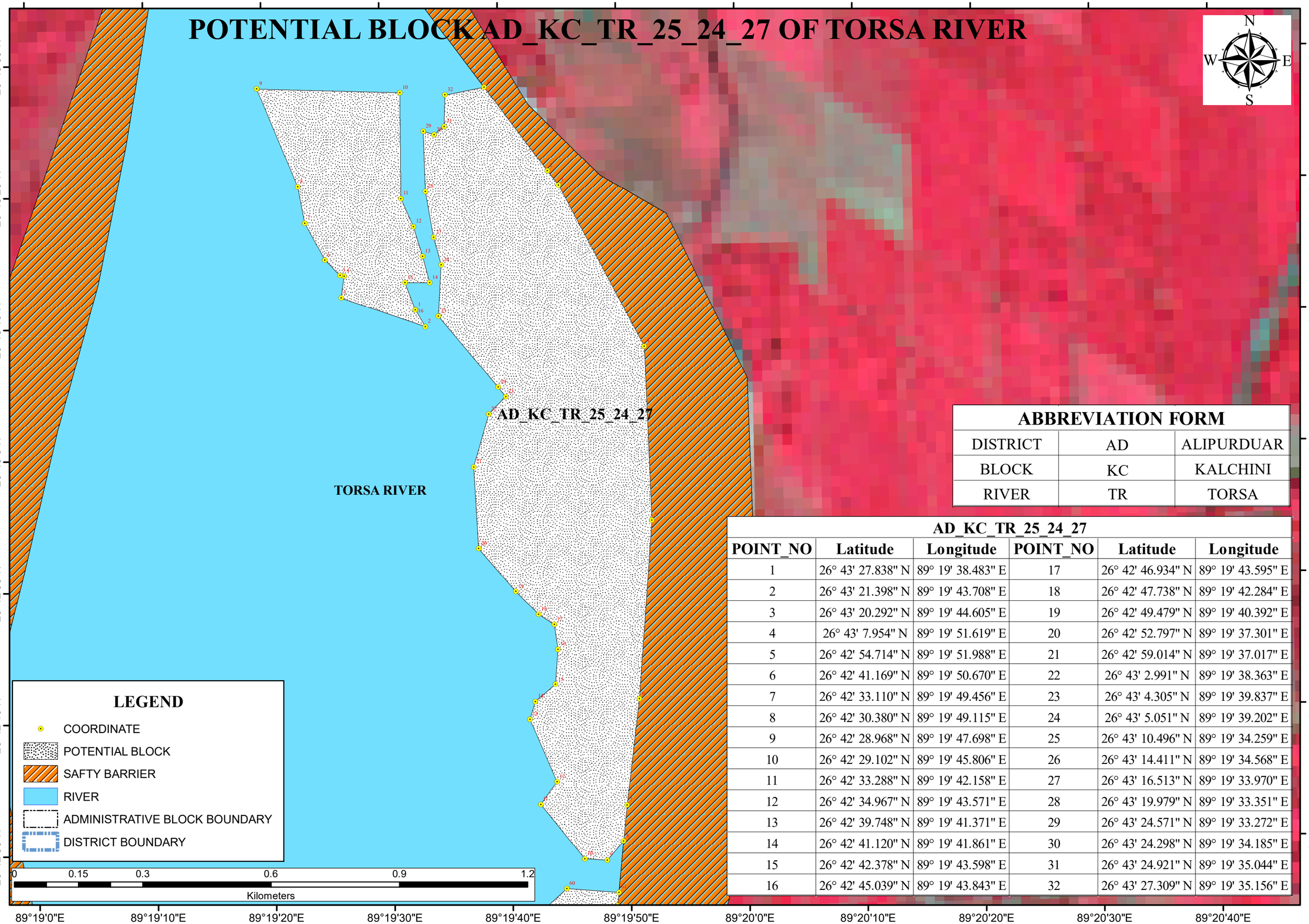
LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.0375 0.075 0.15 0.225 0.3

Kilometers

POTENTIAL BLOCK AD_KC_TR_25_24_27 OF TORSA RIVER

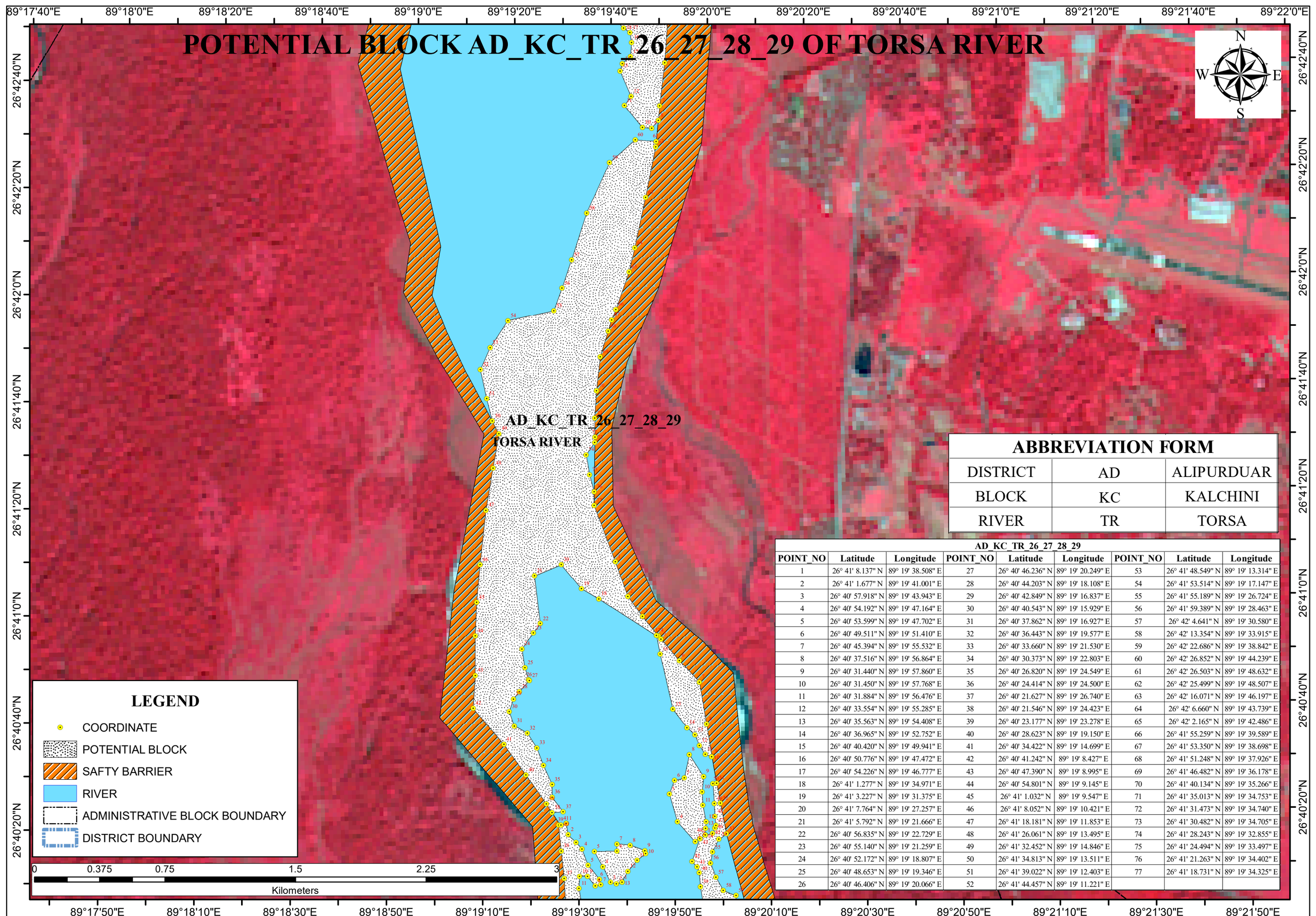


ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	TR	TORSA

AD_KC_TR_25_24_27

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 43' 27.838" N	89° 19' 38.483" E	17	26° 42' 46.934" N	89° 19' 43.595" E
2	26° 43' 21.398" N	89° 19' 43.708" E	18	26° 42' 47.738" N	89° 19' 42.284" E
3	26° 43' 20.292" N	89° 19' 44.605" E	19	26° 42' 49.479" N	89° 19' 40.392" E
4	26° 43' 7.954" N	89° 19' 51.619" E	20	26° 42' 52.797" N	89° 19' 37.301" E
5	26° 42' 54.714" N	89° 19' 51.988" E	21	26° 42' 59.014" N	89° 19' 37.017" E
6	26° 42' 41.169" N	89° 19' 50.670" E	22	26° 43' 2.991" N	89° 19' 38.363" E
7	26° 42' 33.110" N	89° 19' 49.456" E	23	26° 43' 4.305" N	89° 19' 39.837" E
8	26° 42' 30.380" N	89° 19' 49.115" E	24	26° 43' 5.051" N	89° 19' 39.202" E
9	26° 42' 28.968" N	89° 19' 47.698" E	25	26° 43' 10.496" N	89° 19' 34.259" E
10	26° 42' 29.102" N	89° 19' 45.806" E	26	26° 43' 14.411" N	89° 19' 34.568" E
11	26° 42' 33.288" N	89° 19' 42.158" E	27	26° 43' 16.513" N	89° 19' 33.970" E
12	26° 42' 34.967" N	89° 19' 43.571" E	28	26° 43' 19.979" N	89° 19' 33.351" E
13	26° 42' 39.748" N	89° 19' 41.371" E	29	26° 43' 24.571" N	89° 19' 33.272" E
14	26° 42' 41.120" N	89° 19' 41.861" E	30	26° 43' 24.298" N	89° 19' 34.185" E
15	26° 42' 42.378" N	89° 19' 43.598" E	31	26° 43' 24.921" N	89° 19' 35.044" E
16	26° 42' 45.039" N	89° 19' 43.843" E	32	26° 43' 27.309" N	89° 19' 35.156" E

POTENTIAL BLOCK AD_KC_TR_26_27_28_29 OF TORSA RIVER



ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	TR	TORSA

AD_KC_TR_26_27_28_29

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 41' 8.137" N	89° 19' 38.508" E	27	26° 40' 46.236" N	89° 19' 20.249" E	53	26° 41' 48.549" N	89° 19' 13.314" E
2	26° 41' 1.677" N	89° 19' 41.001" E	28	26° 40' 44.203" N	89° 19' 18.108" E	54	26° 41' 53.514" N	89° 19' 17.147" E
3	26° 40' 57.918" N	89° 19' 43.943" E	29	26° 40' 42.849" N	89° 19' 16.837" E	55	26° 41' 55.189" N	89° 19' 26.724" E
4	26° 40' 54.192" N	89° 19' 47.164" E	30	26° 40' 40.543" N	89° 19' 15.929" E	56	26° 41' 59.389" N	89° 19' 28.463" E
5	26° 40' 53.599" N	89° 19' 47.702" E	31	26° 40' 37.862" N	89° 19' 16.927" E	57	26° 42' 4.641" N	89° 19' 30.580" E
6	26° 40' 49.511" N	89° 19' 51.410" E	32	26° 40' 36.443" N	89° 19' 19.577" E	58	26° 42' 13.354" N	89° 19' 33.915" E
7	26° 40' 45.394" N	89° 19' 55.532" E	33	26° 40' 33.660" N	89° 19' 21.530" E	59	26° 42' 22.686" N	89° 19' 38.842" E
8	26° 40' 37.516" N	89° 19' 56.864" E	34	26° 40' 30.373" N	89° 19' 22.803" E	60	26° 42' 26.852" N	89° 19' 44.239" E
9	26° 40' 31.440" N	89° 19' 57.860" E	35	26° 40' 26.820" N	89° 19' 24.549" E	61	26° 42' 26.503" N	89° 19' 48.632" E
10	26° 40' 31.450" N	89° 19' 57.768" E	36	26° 40' 24.414" N	89° 19' 24.500" E	62	26° 42' 25.499" N	89° 19' 48.507" E
11	26° 40' 31.884" N	89° 19' 56.476" E	37	26° 40' 21.627" N	89° 19' 26.740" E	63	26° 42' 16.071" N	89° 19' 46.197" E
12	26° 40' 33.554" N	89° 19' 55.285" E	38	26° 40' 21.546" N	89° 19' 24.423" E	64	26° 42' 6.660" N	89° 19' 43.739" E
13	26° 40' 35.563" N	89° 19' 54.408" E	39	26° 40' 23.177" N	89° 19' 23.278" E	65	26° 42' 2.165" N	89° 19' 42.486" E
14	26° 40' 36.965" N	89° 19' 52.752" E	40	26° 40' 28.623" N	89° 19' 19.150" E	66	26° 41' 55.259" N	89° 19' 39.589" E
15	26° 40' 40.420" N	89° 19' 49.941" E	41	26° 40' 34.422" N	89° 19' 14.699" E	67	26° 41' 53.350" N	89° 19' 38.698" E
16	26° 40' 50.776" N	89° 19' 47.472" E	42	26° 40' 41.242" N	89° 19' 8.427" E	68	26° 41' 51.248" N	89° 19' 37.926" E
17	26° 40' 54.226" N	89° 19' 46.777" E	43	26° 40' 47.390" N	89° 19' 8.995" E	69	26° 41' 46.482" N	89° 19' 36.178" E
18	26° 41' 1.277" N	89° 19' 34.971" E	44	26° 40' 54.801" N	89° 19' 9.145" E	70	26° 41' 40.134" N	89° 19' 35.266" E
19	26° 41' 3.227" N	89° 19' 31.375" E	45	26° 41' 1.032" N	89° 19' 9.547" E	71	26° 41' 35.013" N	89° 19' 34.753" E
20	26° 41' 7.764" N	89° 19' 27.257" E	46	26° 41' 8.052" N	89° 19' 10.421" E	72	26° 41' 31.473" N	89° 19' 34.740" E
21	26° 41' 5.792" N	89° 19' 21.666" E	47	26° 41' 18.181" N	89° 19' 11.853" E	73	26° 41' 30.482" N	89° 19' 34.705" E
22	26° 40' 56.835" N	89° 19' 22.729" E	48	26° 41' 26.061" N	89° 19' 13.495" E	74	26° 41' 28.243" N	89° 19' 32.855" E
23	26° 40' 55.140" N	89° 19' 21.259" E	49	26° 41' 32.452" N	89° 19' 14.846" E	75	26° 41' 24.494" N	89° 19' 33.497" E
24	26° 40' 52.172" N	89° 19' 18.807" E	50	26° 41' 34.813" N	89° 19' 13.511" E	76	26° 41' 21.263" N	89° 19' 34.402" E
25	26° 40' 48.653" N	89° 19' 19.346" E	51	26° 41' 39.022" N	89° 19' 12.403" E	77	26° 41' 18.731" N	89° 19' 34.325" E
26	26° 40' 46.406" N	89° 19' 20.066" E	52	26° 41' 44.457" N	89° 19' 11.221" E			

POTENTIAL BLOCK AD_KC_TR_30 OF TORSA RIVER

89°19'50"E 89°20'0"E

26°40'30"N 26°40'20"N

AD_KC_TR_30

TORSA RIVER

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	TR	TORSA

AD_KC_TR_30		
POINT_NO	Latitude	Longitude
1	26° 40' 16.791" N	89° 19' 56.150" E
2	26° 40' 16.192" N	89° 19' 55.062" E
3	26° 40' 15.647" N	89° 19' 54.073" E
4	26° 40' 19.403" N	89° 19' 50.418" E
5	26° 40' 24.586" N	89° 19' 48.897" E
6	26° 40' 27.146" N	89° 19' 50.002" E
7	26° 40' 27.543" N	89° 19' 52.019" E
8	26° 40' 31.908" N	89° 19' 53.160" E
9	26° 40' 27.760" N	89° 19' 56.071" E
10	26° 40' 24.880" N	89° 19' 55.645" E
11	26° 40' 22.385" N	89° 19' 55.785" E
12	26° 40' 19.280" N	89° 19' 56.392" E
13	26° 40' 18.079" N	89° 19' 56.272" E

LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.0425 0.085 0.17 0.255 0.34

Kilometers

N W E S

POTENTIAL BLOCK AD_KC_TR_31 OF TORSA RIVER



89°19'30"E 89°19'40"E 89°19'50"E

26°40'10"N

AD_KC_TR_30

TORSA RIVER

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	TR	TORSA

AD_KC_TR_31		
POINT_NO	Latitude	Longitude
1	26° 40' 8.256" N	89° 19' 38.701" E
2	26° 40' 8.000" N	89° 19' 37.547" E
3	26° 40' 8.295" N	89° 19' 36.329" E
4	26° 40' 11.209" N	89° 19' 34.780" E
5	26° 40' 14.125" N	89° 19' 33.079" E
6	26° 40' 14.117" N	89° 19' 37.748" E
7	26° 40' 15.492" N	89° 19' 37.776" E
8	26° 40' 15.172" N	89° 19' 40.525" E
9	26° 40' 14.159" N	89° 19' 43.566" E
10	26° 40' 13.607" N	89° 19' 43.708" E
11	26° 40' 12.329" N	89° 19' 41.921" E
12	26° 40' 10.341" N	89° 19' 39.929" E

LEGEND

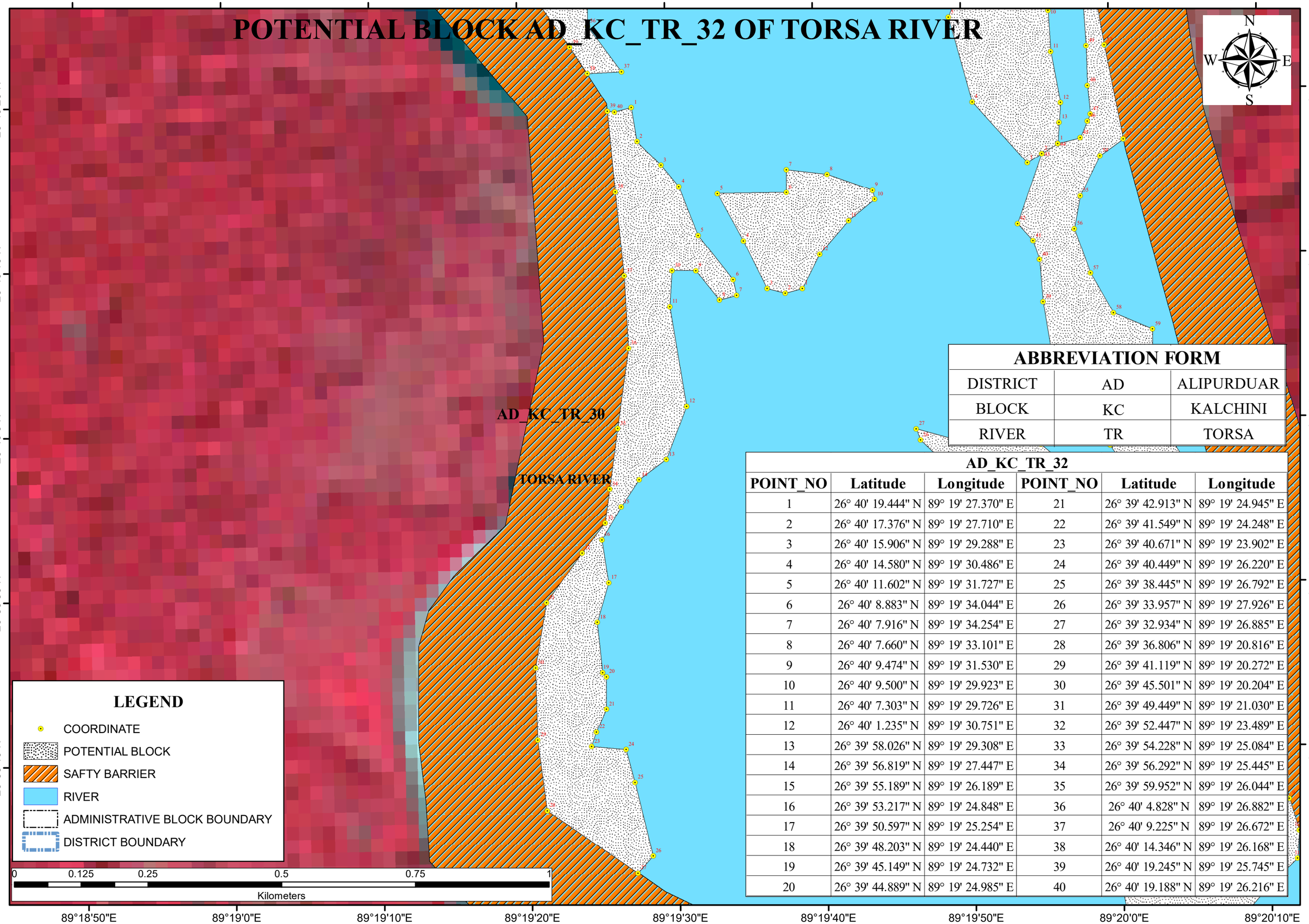
- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.03 0.06 0.12 0.18 0.24

Kilometers

89°19'30"E 89°19'40"E 89°19'50"E

POTENTIAL BLOCK AD_KC_TR_32 OF TORSA RIVER



LEGEND

- COORDINATE
- POTENTIAL BLOCK
- SAFTY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

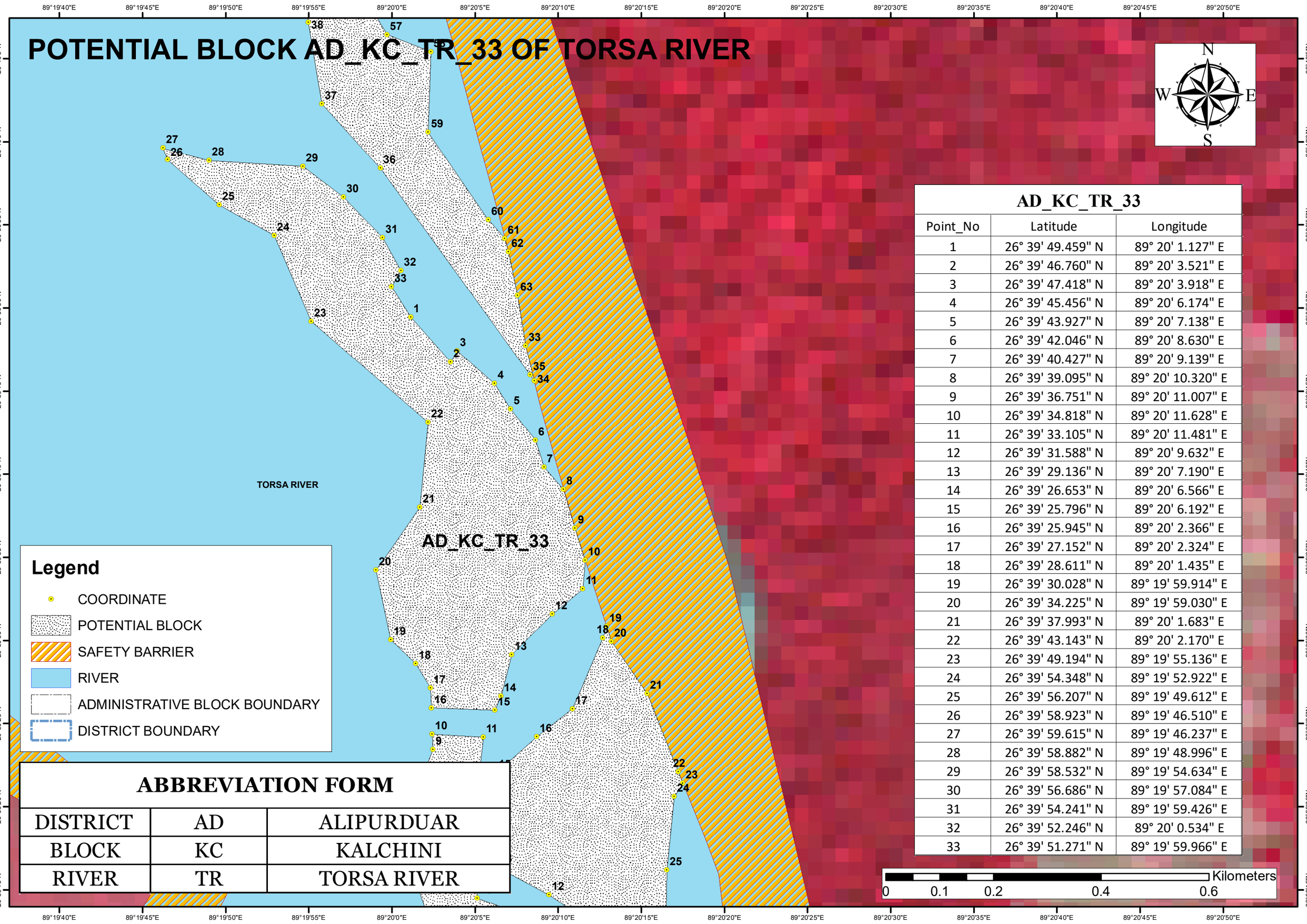
ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	TR	TORSA

AD_KC_TR_32

POINT_NO	Latitude	Longitude	POINT_NO	Latitude	Longitude
1	26° 40' 19.444" N	89° 19' 27.370" E	21	26° 39' 42.913" N	89° 19' 24.945" E
2	26° 40' 17.376" N	89° 19' 27.710" E	22	26° 39' 41.549" N	89° 19' 24.248" E
3	26° 40' 15.906" N	89° 19' 29.288" E	23	26° 39' 40.671" N	89° 19' 23.902" E
4	26° 40' 14.580" N	89° 19' 30.486" E	24	26° 39' 40.449" N	89° 19' 26.220" E
5	26° 40' 11.602" N	89° 19' 31.727" E	25	26° 39' 38.445" N	89° 19' 26.792" E
6	26° 40' 8.883" N	89° 19' 34.044" E	26	26° 39' 33.957" N	89° 19' 27.926" E
7	26° 40' 7.916" N	89° 19' 34.254" E	27	26° 39' 32.934" N	89° 19' 26.885" E
8	26° 40' 7.660" N	89° 19' 33.101" E	28	26° 39' 36.806" N	89° 19' 20.816" E
9	26° 40' 9.474" N	89° 19' 31.530" E	29	26° 39' 41.119" N	89° 19' 20.272" E
10	26° 40' 9.500" N	89° 19' 29.923" E	30	26° 39' 45.501" N	89° 19' 20.204" E
11	26° 40' 7.303" N	89° 19' 29.726" E	31	26° 39' 49.449" N	89° 19' 21.030" E
12	26° 40' 1.235" N	89° 19' 30.751" E	32	26° 39' 52.447" N	89° 19' 23.489" E
13	26° 39' 58.026" N	89° 19' 29.308" E	33	26° 39' 54.228" N	89° 19' 25.084" E
14	26° 39' 56.819" N	89° 19' 27.447" E	34	26° 39' 56.292" N	89° 19' 25.445" E
15	26° 39' 55.189" N	89° 19' 26.189" E	35	26° 39' 59.952" N	89° 19' 26.044" E
16	26° 39' 53.217" N	89° 19' 24.848" E	36	26° 40' 4.828" N	89° 19' 26.882" E
17	26° 39' 50.597" N	89° 19' 25.254" E	37	26° 40' 9.225" N	89° 19' 26.672" E
18	26° 39' 48.203" N	89° 19' 24.440" E	38	26° 40' 14.346" N	89° 19' 26.168" E
19	26° 39' 45.149" N	89° 19' 24.732" E	39	26° 40' 19.245" N	89° 19' 25.745" E
20	26° 39' 44.889" N	89° 19' 24.985" E	40	26° 40' 19.188" N	89° 19' 26.216" E

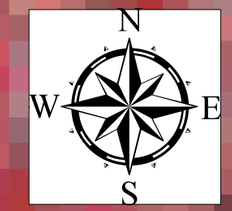
POTENTIAL BLOCK AD_KC_TR_33 OF TORSA RIVER



AD_KC_TR_33		
Point_No	Latitude	Longitude
1	26° 39' 49.459" N	89° 20' 1.127" E
2	26° 39' 46.760" N	89° 20' 3.521" E
3	26° 39' 47.418" N	89° 20' 3.918" E
4	26° 39' 45.456" N	89° 20' 6.174" E
5	26° 39' 43.927" N	89° 20' 7.138" E
6	26° 39' 42.046" N	89° 20' 8.630" E
7	26° 39' 40.427" N	89° 20' 9.139" E
8	26° 39' 39.095" N	89° 20' 10.320" E
9	26° 39' 36.751" N	89° 20' 11.007" E
10	26° 39' 34.818" N	89° 20' 11.628" E
11	26° 39' 33.105" N	89° 20' 11.481" E
12	26° 39' 31.588" N	89° 20' 9.632" E
13	26° 39' 29.136" N	89° 20' 7.190" E
14	26° 39' 26.653" N	89° 20' 6.566" E
15	26° 39' 25.796" N	89° 20' 6.192" E
16	26° 39' 25.945" N	89° 20' 2.366" E
17	26° 39' 27.152" N	89° 20' 2.324" E
18	26° 39' 28.611" N	89° 20' 1.435" E
19	26° 39' 30.028" N	89° 19' 59.914" E
20	26° 39' 34.225" N	89° 19' 59.030" E
21	26° 39' 37.993" N	89° 20' 1.683" E
22	26° 39' 43.143" N	89° 20' 2.170" E
23	26° 39' 49.194" N	89° 19' 55.136" E
24	26° 39' 54.348" N	89° 19' 52.922" E
25	26° 39' 56.207" N	89° 19' 49.612" E
26	26° 39' 58.923" N	89° 19' 46.510" E
27	26° 39' 59.615" N	89° 19' 46.237" E
28	26° 39' 58.882" N	89° 19' 48.996" E
29	26° 39' 58.532" N	89° 19' 54.634" E
30	26° 39' 56.686" N	89° 19' 57.084" E
31	26° 39' 54.241" N	89° 19' 59.426" E
32	26° 39' 52.246" N	89° 20' 0.534" E
33	26° 39' 51.271" N	89° 19' 59.966" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	TR	TORSA RIVER

POTENTIAL BLOCKAD_KC_TR_35_34 OF TORSA RIVER



TORSA RIVER

AD_KC_TR_35_34

Legend

- COORDINATE
- POTENTIAL BLOCK
- SAFETY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	KC	KALCHINI
RIVER	TR	TORSA RIVER

AD_KC_TR_35_34

Point_No	Latitude	Longitude
1	26° 38' 57.234" N	89° 20' 19.608" E
2	26° 38' 51.905" N	89° 20' 25.451" E
3	26° 38' 52.164" N	89° 20' 24.127" E
4	26° 38' 53.842" N	89° 20' 20.096" E
5	26° 38' 59.672" N	89° 20' 11.844" E
6	26° 39' 4.952" N	89° 20' 9.937" E
7	26° 39' 10.227" N	89° 20' 3.168" E
8	26° 39' 18.523" N	89° 20' 0.467" E
9	26° 39' 23.441" N	89° 20' 2.452" E
10	26° 39' 24.363" N	89° 20' 2.420" E
11	26° 39' 24.183" N	89° 20' 5.490" E
12	26° 39' 18.537" N	89° 20' 4.832" E
13	26° 39' 14.492" N	89° 20' 5.132" E
14	26° 39' 13.051" N	89° 20' 9.120" E
15	26° 39' 11.451" N	89° 20' 12.340" E
16	26° 39' 4.044" N	89° 20' 13.242" E
17	26° 39' 0.487" N	89° 20' 15.178" E
18	26° 38' 57.356" N	89° 20' 17.410" E

Kilometers
0 0.1 0.2 0.4 0.6

89°19'50"E 89°19'55"E 89°20'0"E 89°20'5"E 89°20'10"E 89°20'15"E 89°20'20"E 89°20'25"E 89°20'30"E 89°20'35"E 89°20'40"E 89°20'45"E 89°20'50"E 89°20'55"E 89°21'0"E

26°39'35"N 26°39'30"N 26°39'25"N 26°39'20"N 26°39'15"N 26°39'10"N 26°39'5"N 26°39'0"N 26°38'55"N 26°38'50"N 26°38'45"N

POTENTIAL BLOCK AD_AD1_TR_36_34 OF TORSA RIVER

AD_AD1_TR_36_34		
Point_No	Latitude	Longitude
1	26° 38' 4.175" N	89° 20' 33.949" E
2	26° 38' 3.866" N	89° 20' 34.776" E
3	26° 38' 4.375" N	89° 20' 36.460" E
4	26° 38' 1.899" N	89° 20' 36.768" E
5	26° 37' 57.737" N	89° 20' 35.009" E
6	26° 37' 54.095" N	89° 20' 34.337" E
7	26° 37' 48.951" N	89° 20' 33.515" E
8	26° 37' 45.510" N	89° 20' 33.684" E
9	26° 37' 40.342" N	89° 20' 34.296" E
10	26° 37' 39.061" N	89° 20' 35.084" E
11	26° 37' 38.085" N	89° 20' 34.369" E
12	26° 37' 35.450" N	89° 20' 34.128" E
13	26° 37' 37.887" N	89° 20' 29.218" E
14	26° 37' 42.716" N	89° 20' 29.556" E
15	26° 37' 46.942" N	89° 20' 31.561" E
16	26° 37' 52.196" N	89° 20' 30.923" E
17	26° 37' 54.825" N	89° 20' 30.976" E
18	26° 37' 56.942" N	89° 20' 30.847" E
19	26° 38' 0.224" N	89° 20' 28.848" E
20	26° 38' 2.528" N	89° 20' 26.715" E
21	26° 38' 5.548" N	89° 20' 24.997" E
22	26° 38' 7.441" N	89° 20' 25.954" E
23	26° 38' 10.045" N	89° 20' 28.166" E
24	26° 38' 12.258" N	89° 20' 29.455" E
25	26° 38' 14.743" N	89° 20' 29.984" E
26	26° 38' 15.764" N	89° 20' 30.631" E
27	26° 38' 22.503" N	89° 20' 30.630" E
28	26° 38' 26.269" N	89° 20' 30.348" E
29	26° 38' 28.232" N	89° 20' 30.354" E
30	26° 38' 30.499" N	89° 20' 28.392" E
31	26° 38' 36.355" N	89° 20' 27.746" E
32	26° 38' 44.962" N	89° 20' 27.061" E
33	26° 38' 49.442" N	89° 20' 26.483" E
34	26° 38' 49.263" N	89° 20' 28.152" E
35	26° 38' 49.023" N	89° 20' 28.243" E
36	26° 38' 43.367" N	89° 20' 31.915" E
37	26° 38' 37.225" N	89° 20' 33.426" E
38	26° 38' 32.250" N	89° 20' 34.736" E
39	26° 38' 31.002" N	89° 20' 35.065" E
40	26° 38' 25.699" N	89° 20' 35.584" E
41	26° 38' 25.068" N	89° 20' 35.802" E
42	26° 38' 17.100" N	89° 20' 32.997" E
43	26° 38' 13.928" N	89° 20' 32.454" E
44	26° 38' 13.555" N	89° 20' 34.264" E
45	26° 38' 12.205" N	89° 20' 32.706" E
46	26° 38' 11.543" N	89° 20' 31.162" E
47	26° 38' 9.571" N	89° 20' 30.835" E
48	26° 38' 7.740" N	89° 20' 32.423" E
49	26° 38' 6.928" N	89° 20' 34.702" E
50	26° 38' 5.226" N	89° 20' 33.711" E

TORSA RIVER

AD_AD1_TR_36_34

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR-I
RIVER	TR	TORSA RIVER

Legend

- COORDINATE
- POTENTIAL BLOCK
- SAFETY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

Kilometers
0 0.175 0.35 0.7 1.05

POTENTIAL BLOCK AD_AD1_TR_41 OF TORSA RIVER

89°20'35"E 89°20'40"E 89°20'45"E

26°38'10"N 26°38'5"N 26°38'0"N

N W E S

Legend

- COORDINATE
- POTENTIAL BLOCK
- SAFETY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

TORSA RIVER

AD_AD1_TR_41

AD_AD1_TR_41

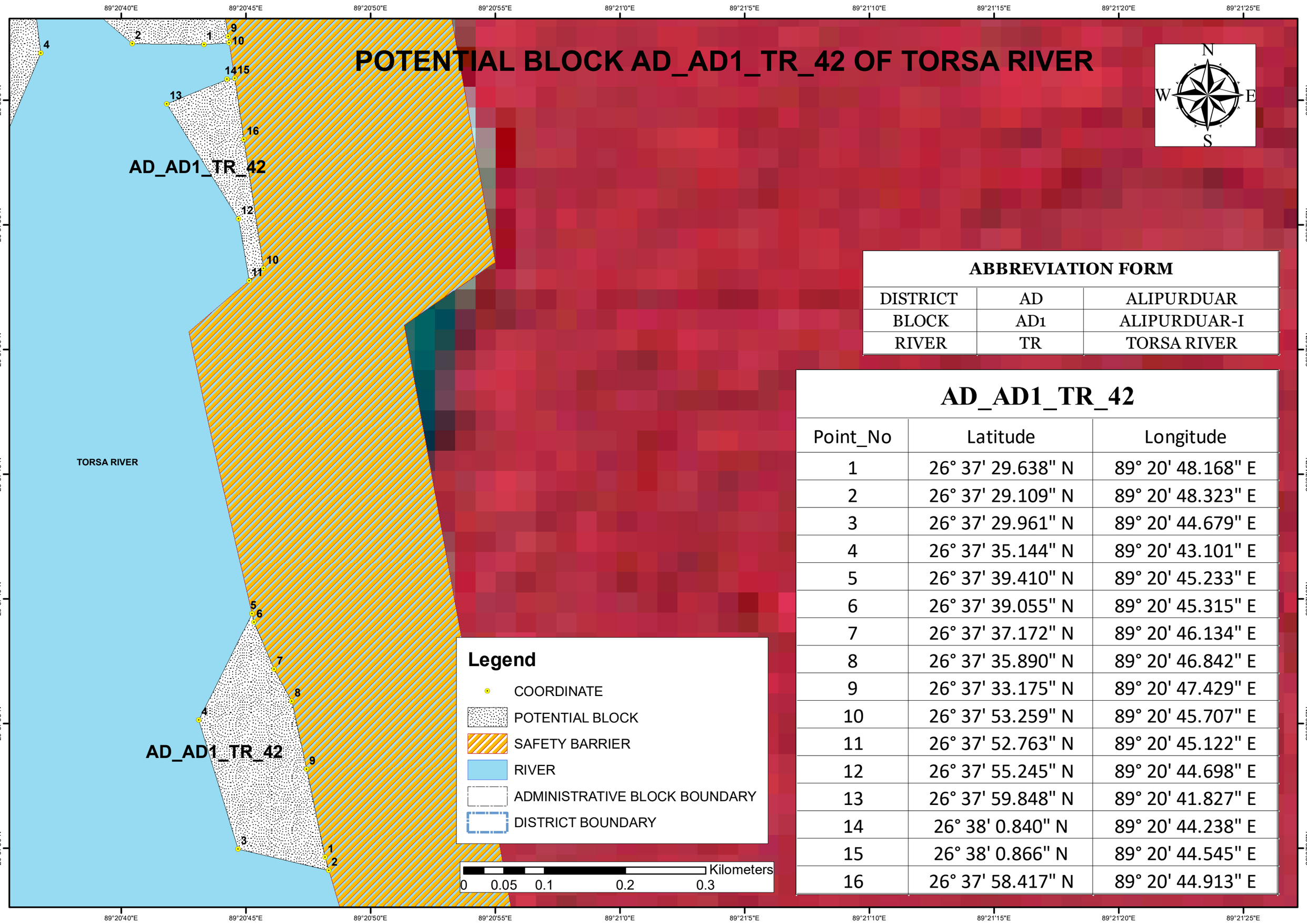
Point_No	Latitude	Longitude
1	26° 38' 2.231" N	89° 20' 43.310" E
2	26° 38' 2.278" N	89° 20' 40.442" E
3	26° 38' 3.944" N	89° 20' 38.467" E
4	26° 38' 7.120" N	89° 20' 38.723" E
5	26° 38' 10.121" N	89° 20' 39.167" E
6	26° 38' 11.470" N	89° 20' 39.195" E
7	26° 38' 8.442" N	89° 20' 39.593" E
8	26° 38' 6.439" N	89° 20' 43.650" E
9	26° 38' 2.557" N	89° 20' 44.290" E
10	26° 38' 2.310" N	89° 20' 44.327" E

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR-I
RIVER	TR	TORSA RIVER

Kilometers
0 0.025 0.05 0.1 0.15

POTENTIAL BLOCK AD_AD1_TR_42 OF TORSA RIVER



ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR-I
RIVER	TR	TORSA RIVER

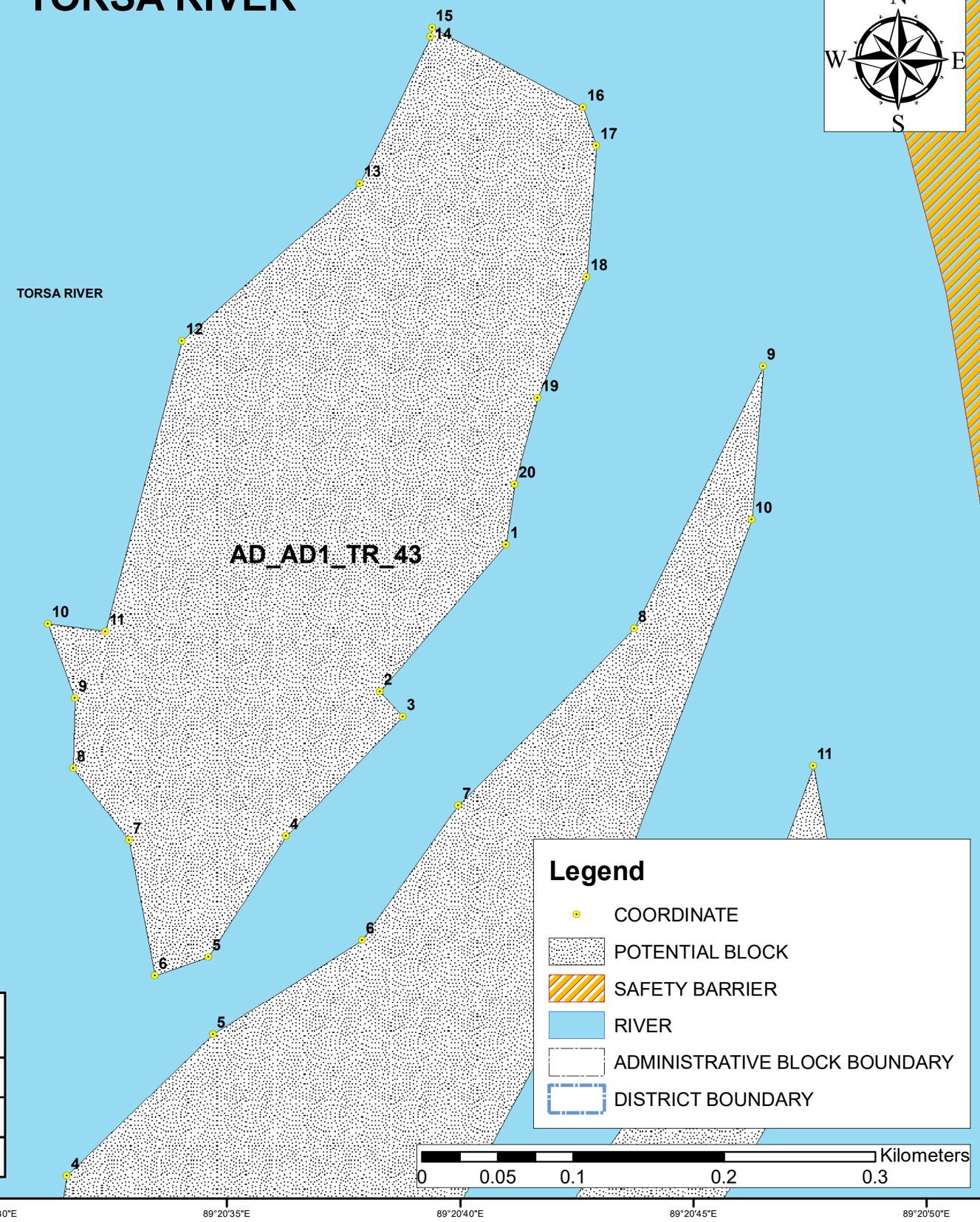
AD_AD1_TR_42

Point_No	Latitude	Longitude
1	26° 37' 29.638" N	89° 20' 48.168" E
2	26° 37' 29.109" N	89° 20' 48.323" E
3	26° 37' 29.961" N	89° 20' 44.679" E
4	26° 37' 35.144" N	89° 20' 43.101" E
5	26° 37' 39.410" N	89° 20' 45.233" E
6	26° 37' 39.055" N	89° 20' 45.315" E
7	26° 37' 37.172" N	89° 20' 46.134" E
8	26° 37' 35.890" N	89° 20' 46.842" E
9	26° 37' 33.175" N	89° 20' 47.429" E
10	26° 37' 53.259" N	89° 20' 45.707" E
11	26° 37' 52.763" N	89° 20' 45.122" E
12	26° 37' 55.245" N	89° 20' 44.698" E
13	26° 37' 59.848" N	89° 20' 41.827" E
14	26° 38' 0.840" N	89° 20' 44.238" E
15	26° 38' 0.866" N	89° 20' 44.545" E
16	26° 37' 58.417" N	89° 20' 44.913" E

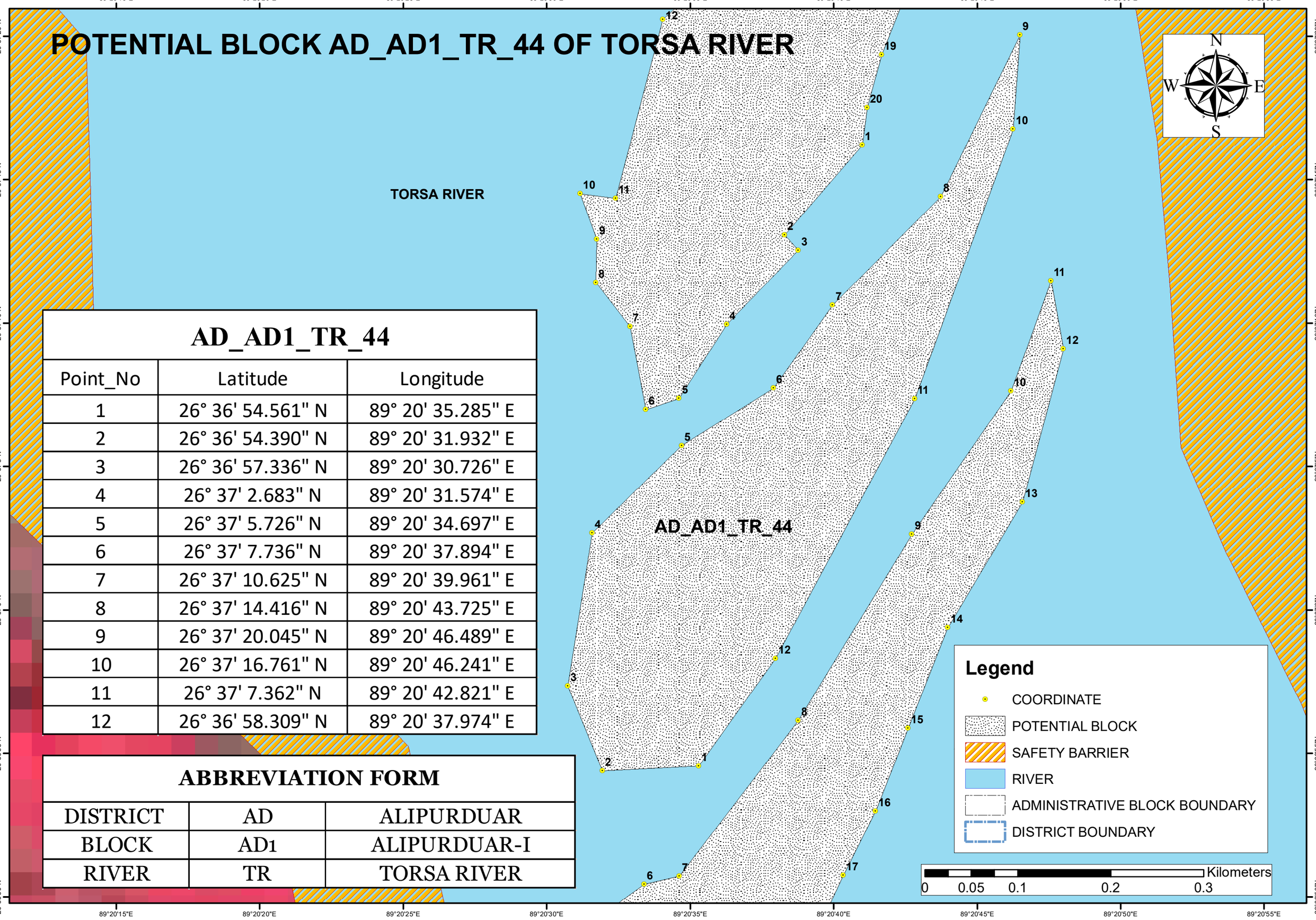
POTENTIAL BLOCK AD_AD1_TR_43 OF TORSA RIVER

AD_AD1_TR_43		
Point_No	Latitude	Longitude
1	26° 37' 16.212" N	89° 20' 40.984" E
2	26° 37' 13.070" N	89° 20' 38.281" E
3	26° 37' 12.536" N	89° 20' 38.766" E
4	26° 37' 9.964" N	89° 20' 36.266" E
5	26° 37' 7.378" N	89° 20' 34.606" E
6	26° 37' 6.984" N	89° 20' 33.451" E
7	26° 37' 9.882" N	89° 20' 32.898" E
8	26° 37' 11.414" N	89° 20' 31.705" E
9	26° 37' 12.926" N	89° 20' 31.736" E
10	26° 37' 14.518" N	89° 20' 31.156" E
11	26° 37' 14.358" N	89° 20' 32.395" E
12	26° 37' 20.591" N	89° 20' 34.034" E
13	26° 37' 23.966" N	89° 20' 37.852" E
14	26° 37' 27.104" N	89° 20' 39.370" E
15	26° 37' 27.304" N	89° 20' 39.395" E
16	26° 37' 25.594" N	89° 20' 42.634" E
17	26° 37' 24.776" N	89° 20' 42.918" E
18	26° 37' 21.960" N	89° 20' 42.708" E
19	26° 37' 19.365" N	89° 20' 41.660" E
20	26° 37' 17.516" N	89° 20' 41.163" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR-I
RIVER	TR	TORSA RIVER



POTENTIAL BLOCK AD_AD1_TR_44 OF TORSA RIVER



AD_AD1_TR_44

Point_No	Latitude	Longitude
1	26° 36' 54.561" N	89° 20' 35.285" E
2	26° 36' 54.390" N	89° 20' 31.932" E
3	26° 36' 57.336" N	89° 20' 30.726" E
4	26° 37' 2.683" N	89° 20' 31.574" E
5	26° 37' 5.726" N	89° 20' 34.697" E
6	26° 37' 7.736" N	89° 20' 37.894" E
7	26° 37' 10.625" N	89° 20' 39.961" E
8	26° 37' 14.416" N	89° 20' 43.725" E
9	26° 37' 20.045" N	89° 20' 46.489" E
10	26° 37' 16.761" N	89° 20' 46.241" E
11	26° 37' 7.362" N	89° 20' 42.821" E
12	26° 36' 58.309" N	89° 20' 37.974" E

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR-I
RIVER	TR	TORSA RIVER

POTENTIAL BLOCK AD_AD1_TR_45_44 OF TORSA RIVER

AD_AD1_TR_45_44		
Point_No	Latitude	Longitude
1	26° 36' 44.978" N	89° 20' 35.618" E
2	26° 36' 42.206" N	89° 20' 31.125" E
3	26° 36' 44.216" N	89° 20' 30.720" E
4	26° 36' 48.538" N	89° 20' 30.568" E
5	26° 36' 49.383" N	89° 20' 31.935" E
6	26° 36' 50.433" N	89° 20' 33.391" E
7	26° 36' 50.725" N	89° 20' 34.611" E
8	26° 36' 56.147" N	89° 20' 38.767" E
9	26° 37' 2.636" N	89° 20' 42.725" E
10	26° 37' 7.629" N	89° 20' 46.174" E
11	26° 37' 11.474" N	89° 20' 47.568" E
12	26° 37' 9.103" N	89° 20' 47.997" E
13	26° 37' 3.754" N	89° 20' 46.573" E
14	26° 36' 59.392" N	89° 20' 43.974" E
15	26° 36' 55.869" N	89° 20' 42.587" E
16	26° 36' 52.986" N	89° 20' 41.452" E
17	26° 36' 50.748" N	89° 20' 40.331" E
18	26° 36' 48.616" N	89° 20' 39.331" E
19	26° 36' 47.663" N	89° 20' 38.474" E
20	26° 36' 46.396" N	89° 20' 37.134" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR-I
RIVER	TR	TORSA RIVER

TORSA RIVER

AD_AD1_TR_45_44

Legend

- COORDINATE
- POTENTIAL BLOCK
- SAFETY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

Kilometers
0 0.05 0.1 0.2 0.3

89°20'15"E 89°20'20"E 89°20'25"E 89°20'30"E 89°20'35"E 89°20'40"E 89°20'45"E 89°20'50"E 89°20'55"E

26°37'10"N 26°37'5"N 26°37'0"N 26°36'55"N 26°36'50"N 26°36'45"N

POTENTIAL BLOCK AD_AD1_TR_46_45 OF TORSA RIVER

AD_AD1_TR_46_45		
Point_No	Latitude	Longitude
1	26° 36' 36.175" N	89° 20' 38.780" E
2	26° 36' 32.811" N	89° 20' 39.476" E
3	26° 36' 32.405" N	89° 20' 38.474" E
4	26° 36' 32.682" N	89° 20' 37.332" E
5	26° 36' 33.144" N	89° 20' 34.893" E
6	26° 36' 32.920" N	89° 20' 33.321" E
7	26° 36' 34.914" N	89° 20' 32.309" E
8	26° 36' 39.470" N	89° 20' 32.307" E
9	26° 36' 42.372" N	89° 20' 33.513" E
10	26° 36' 45.056" N	89° 20' 37.585" E
11	26° 36' 41.938" N	89° 20' 38.515" E
12	26° 36' 40.810" N	89° 20' 39.161" E
13	26° 36' 36.216" N	89° 20' 38.314" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR-I
RIVER	TR	TORSA RIVER

AD_AD1_TR_46_45

TORSA RIVER

Legend

- COORDINATE
- POTENTIAL BLOCK
- SAFETY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

Kilometers
0 0.035 0.07 0.14 0.21

89°20'25"E 89°20'30"E 89°20'35"E 89°20'40"E 89°20'45"E

26°36'45"N 26°36'40"N 26°36'35"N 26°36'30"N

POTENTIAL BLOCK AD_AD1_TR_47_46 OF TORSA RIVER

AD_AD1_TR_47_46

Point_No	Latitude	Longitude
1	26° 36' 11.432" N	89° 20' 38.429" E
2	26° 36' 9.966" N	89° 20' 37.537" E
3	26° 36' 13.830" N	89° 20' 36.453" E
4	26° 36' 14.333" N	89° 20' 36.267" E
5	26° 36' 17.322" N	89° 20' 35.162" E
6	26° 36' 22.573" N	89° 20' 33.840" E
7	26° 36' 25.302" N	89° 20' 34.864" E
8	26° 36' 29.264" N	89° 20' 36.233" E
9	26° 36' 30.836" N	89° 20' 34.977" E
10	26° 36' 28.665" N	89° 20' 41.171" E
11	26° 36' 24.564" N	89° 20' 44.817" E
12	26° 36' 19.240" N	89° 20' 44.517" E
13	26° 36' 16.415" N	89° 20' 43.790" E
14	26° 36' 13.952" N	89° 20' 42.018" E

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR-I
RIVER	TR	TORSA RIVER

TORSA RIVER

AD_AD1_TR_47_46

N
W E
S

Legend

- COORDINATE
- POTENTIAL BLOCK
- SAFETY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

Kilometers
0 0.05 0.1 0.2 0.3

89°20'15"E 89°20'20"E 89°20'25"E 89°20'30"E 89°20'35"E 89°20'40"E 89°20'45"E 89°20'50"E 89°20'55"E 89°21'0"E

26°36'35"N 26°36'30"N 26°36'25"N 26°36'20"N 26°36'15"N 26°36'10"N 26°36'5"N

POTENTIAL BLOCK AD_AD1_TR_48_49_50_51_47 OF TORSA RIVER

AD_AD1_TR_48_49_50_51_47		
Point_No	Latitude	Longitude
1	26° 35' 19.355" N	89° 20' 46.992" E
2	26° 35' 18.000" N	89° 20' 44.455" E
3	26° 35' 21.558" N	89° 20' 43.691" E
4	26° 35' 22.591" N	89° 20' 42.986" E
5	26° 35' 27.584" N	89° 20' 42.196" E
6	26° 35' 34.121" N	89° 20' 41.191" E
7	26° 35' 37.052" N	89° 20' 40.463" E
8	26° 35' 37.909" N	89° 20' 40.480" E
9	26° 35' 38.691" N	89° 20' 40.055" E
10	26° 35' 41.381" N	89° 20' 39.387" E
11	26° 35' 46.622" N	89° 20' 37.775" E
12	26° 35' 52.054" N	89° 20' 36.128" E
13	26° 35' 56.067" N	89° 20' 34.916" E
14	26° 35' 58.067" N	89° 20' 35.574" E
15	26° 36' 1.099" N	89° 20' 37.992" E
16	26° 36' 4.009" N	89° 20' 41.019" E
17	26° 36' 7.368" N	89° 20' 39.830" E
18	26° 36' 10.895" N	89° 20' 40.978" E
19	26° 36' 13.507" N	89° 20' 45.454" E
20	26° 36' 17.790" N	89° 20' 46.378" E
21	26° 36' 20.989" N	89° 20' 47.877" E
22	26° 36' 19.998" N	89° 20' 49.292" E
23	26° 36' 16.578" N	89° 20' 49.598" E
24	26° 36' 14.831" N	89° 20' 49.755" E
25	26° 36' 10.562" N	89° 20' 48.143" E
26	26° 36' 7.914" N	89° 20' 47.441" E
27	26° 36' 6.983" N	89° 20' 50.458" E
28	26° 36' 5.026" N	89° 20' 54.434" E
29	26° 36' 3.278" N	89° 20' 56.215" E
30	26° 36' 1.901" N	89° 20' 56.283" E
31	26° 35' 57.349" N	89° 20' 56.094" E
32	26° 35' 53.402" N	89° 20' 55.631" E
33	26° 35' 50.309" N	89° 20' 55.568" E
34	26° 35' 47.050" N	89° 20' 55.119" E
35	26° 35' 44.045" N	89° 20' 54.866" E
36	26° 35' 38.952" N	89° 20' 56.196" E
37	26° 35' 35.098" N	89° 20' 55.353" E
38	26° 35' 32.263" N	89° 20' 55.199" E
39	26° 35' 28.022" N	89° 20' 51.766" E
40	26° 35' 27.984" N	89° 20' 51.240" E
41	26° 35' 26.379" N	89° 20' 51.079" E
42	26° 35' 25.100" N	89° 20' 50.456" E
43	26° 35' 22.854" N	89° 20' 49.812" E

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR-I
RIVER	TR	TORSA RIVER

AD_AD1_TR_48_49_50_51_47

TORSA RIVER

N
W
E
S

Legend

- COORDINATE
- POTENTIAL BLOCK
- SAFETY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

Kilometers
0 0.15 0.3 0.6 0.9

POTENTIAL BLOCK AD_AD1_TR_52 OF TORSA RIVER

AD_AD1_TR_52		
Point_No	Latitude	Longitude
1	26° 35' 5.328" N	89° 20' 57.586" E
2	26° 35' 3.956" N	89° 20' 58.698" E
3	26° 35' 4.456" N	89° 20' 59.665" E
4	26° 35' 1.954" N	89° 21' 0.187" E
5	26° 34' 58.345" N	89° 21' 0.113" E
6	26° 34' 57.753" N	89° 20' 59.528" E
7	26° 34' 55.363" N	89° 20' 58.523" E
8	26° 34' 55.056" N	89° 20' 56.318" E
9	26° 34' 55.216" N	89° 20' 54.991" E
10	26° 34' 53.606" N	89° 20' 55.619" E
11	26° 34' 51.639" N	89° 20' 55.005" E
12	26° 34' 50.545" N	89° 20' 53.549" E
13	26° 34' 50.411" N	89° 20' 51.252" E
14	26° 34' 51.648" N	89° 20' 49.269" E
15	26° 34' 57.099" N	89° 20' 47.086" E
16	26° 34' 57.987" N	89° 20' 46.790" E
17	26° 34' 58.503" N	89° 20' 46.801" E
18	26° 35' 4.147" N	89° 20' 45.850" E
19	26° 35' 9.723" N	89° 20' 45.005" E
20	26° 35' 11.046" N	89° 20' 45.745" E
21	26° 35' 13.848" N	89° 20' 45.954" E
22	26° 35' 15.679" N	89° 20' 46.317" E
23	26° 35' 18.480" N	89° 20' 48.478" E
24	26° 35' 21.881" N	89° 20' 50.746" E
25	26° 35' 25.298" N	89° 20' 52.059" E
26	26° 35' 25.441" N	89° 20' 53.783" E
27	26° 35' 24.281" N	89° 20' 56.341" E
28	26° 35' 20.553" N	89° 20' 58.273" E
29	26° 35' 17.202" N	89° 20' 58.204" E
30	26° 35' 13.690" N	89° 20' 57.463" E
31	26° 35' 8.176" N	89° 20' 58.211" E
32	26° 35' 5.776" N	89° 20' 57.779" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR-I
RIVER	TR	TORSA RIVER

AD_AD1_TR_52

TORSA RIVER

Legend

- COORDINATE
- POTENTIAL BLOCK
- SAFETY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

Kilometers
0 0.075 0.15 0.3 0.45

89°20'15"E 89°20'20"E 89°20'25"E 89°20'30"E 89°20'35"E 89°20'40"E 89°20'45"E 89°20'50"E 89°20'55"E 89°21'0"E 89°21'5"E 89°21'10"E 89°21'15"E

26°35'25"N 26°35'20"N 26°35'15"N 26°35'10"N 26°35'5"N 26°35'0"N 26°34'55"N 26°34'50"N 26°34'45"N

POTENTIAL BLOCK AD_AD1_TR_53 OF TORSA RIVER

AD_AD1_TR_53

Point_No	Latitude	Longitude
1	26° 34' 49.115" N	89° 20' 47.863" E
2	26° 34' 47.098" N	89° 20' 48.890" E
3	26° 34' 49.232" N	89° 20' 49.793" E
4	26° 34' 46.190" N	89° 20' 51.835" E
5	26° 34' 43.423" N	89° 20' 52.830" E
6	26° 34' 42.070" N	89° 20' 51.464" E
7	26° 34' 38.671" N	89° 20' 49.100" E
8	26° 34' 34.444" N	89° 20' 47.754" E
9	26° 34' 39.751" N	89° 20' 46.005" E
10	26° 34' 48.273" N	89° 20' 46.623" E
11	26° 34' 53.374" N	89° 20' 46.705" E
12	26° 34' 50.404" N	89° 20' 47.890" E

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR-I
RIVER	TR	TORSA RIVER

89°20'30"E 89°20'35"E 89°20'40"E 89°20'45"E 89°20'50"E 89°20'55"E 89°21'0"E 89°21'5"E

26°34'55"N 26°34'50"N 26°34'45"N 26°34'40"N 26°34'35"N

TORSA RIVER

AD_AD1_TR_53

N W E S

Legend

- COORDINATE
- POTENTIAL BLOCK
- SAFETY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

0 0.05 0.1 0.2 0.3 Kilometers

POTENTIAL BLOCK AD_AD1_TR_54 OF TORSA RIVER



TORSA RIVER

AD_AD1_TR_54

Legend

- COORDINATE
- POTENTIAL BLOCK
- SAFETY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

AD_AD1_TR_54

Point_No	Latitude	Longitude
1	26° 34' 37.697" N	89° 21' 1.221" E
2	26° 34' 36.570" N	89° 21' 1.772" E
3	26° 34' 37.898" N	89° 21' 4.667" E
4	26° 34' 38.011" N	89° 21' 8.207" E
5	26° 34' 35.596" N	89° 21' 13.893" E
6	26° 34' 33.455" N	89° 21' 18.629" E
7	26° 34' 32.667" N	89° 21' 19.864" E
8	26° 34' 32.203" N	89° 21' 21.879" E
9	26° 34' 30.616" N	89° 21' 24.332" E
10	26° 34' 26.986" N	89° 21' 25.500" E
11	26° 34' 23.359" N	89° 21' 26.478" E
12	26° 34' 22.188" N	89° 21' 24.542" E
13	26° 34' 26.249" N	89° 21' 23.287" E
14	26° 34' 29.027" N	89° 21' 21.623" E
15	26° 34' 31.222" N	89° 21' 18.488" E
16	26° 34' 30.681" N	89° 21' 14.844" E
17	26° 34' 29.034" N	89° 21' 10.509" E
18	26° 34' 28.592" N	89° 21' 6.007" E
19	26° 34' 29.322" N	89° 21' 3.440" E
20	26° 34' 33.163" N	89° 20' 59.886" E
21	26° 34' 37.162" N	89° 20' 57.195" E
22	26° 34' 37.126" N	89° 20' 56.958" E
23	26° 34' 47.438" N	89° 20' 56.970" E
24	26° 34' 47.297" N	89° 20' 57.689" E
25	26° 34' 43.589" N	89° 20' 58.378" E
26	26° 34' 40.365" N	89° 21' 0.989" E

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR-I
RIVER	TR	TORSA RIVER

Kilometers
0 0.075 0.15 0.3 0.45

89°20'50"E 89°20'55"E 89°21'0"E 89°21'5"E 89°21'10"E 89°21'15"E 89°21'20"E 89°21'25"E 89°21'30"E 89°21'35"E 89°21'40"E 89°21'45"E 89°21'50"E

26°34'55"N 26°34'50"N 26°34'45"N 26°34'40"N 26°34'35"N 26°34'30"N 26°34'25"N 26°34'20"N 26°34'15"N

POTENTIAL BLOCK AD_AD1_TR_55_54 OF TORSA RIVER

AD_AD1_TR_55_54		
Point_No	Latitude	Longitude
1	26° 34' 7.741" N	89° 21' 16.268" E
2	26° 34' 4.602" N	89° 21' 15.859" E
3	26° 34' 4.737" N	89° 21' 13.912" E
4	26° 34' 3.700" N	89° 21' 12.432" E
5	26° 34' 2.529" N	89° 21' 13.293" E
6	26° 34' 2.263" N	89° 21' 15.326" E
7	26° 34' 0.480" N	89° 21' 15.372" E
8	26° 33' 58.687" N	89° 21' 11.593" E
9	26° 33' 56.296" N	89° 21' 10.233" E
10	26° 33' 56.289" N	89° 21' 9.957" E
11	26° 33' 57.785" N	89° 21' 10.476" E
12	26° 33' 59.481" N	89° 21' 9.437" E
13	26° 34' 1.850" N	89° 21' 8.594" E
14	26° 34' 2.156" N	89° 21' 8.484" E
15	26° 34' 4.022" N	89° 21' 3.838" E
16	26° 34' 4.218" N	89° 21' 3.470" E
17	26° 34' 4.253" N	89° 21' 3.362" E
18	26° 34' 6.355" N	89° 21' 2.139" E
19	26° 34' 7.885" N	89° 20' 58.577" E
20	26° 34' 11.294" N	89° 20' 58.157" E
21	26° 34' 16.342" N	89° 20' 57.493" E
22	26° 34' 20.166" N	89° 20' 56.995" E
23	26° 34' 22.361" N	89° 20' 54.509" E
24	26° 34' 25.656" N	89° 20' 50.803" E
25	26° 34' 27.425" N	89° 20' 50.181" E
26	26° 34' 27.718" N	89° 20' 51.096" E
27	26° 34' 29.947" N	89° 20' 51.027" E
28	26° 34' 31.982" N	89° 20' 51.427" E
29	26° 34' 33.156" N	89° 20' 51.929" E
30	26° 34' 33.884" N	89° 20' 53.378" E
31	26° 34' 33.946" N	89° 20' 55.213" E
32	26° 34' 33.928" N	89° 20' 55.217" E
33	26° 34' 28.987" N	89° 20' 57.698" E
34	26° 34' 25.621" N	89° 21' 3.747" E
35	26° 34' 25.258" N	89° 21' 6.165" E
36	26° 34' 24.751" N	89° 21' 7.684" E
37	26° 34' 23.342" N	89° 21' 9.720" E
38	26° 34' 22.170" N	89° 21' 10.770" E
39	26° 34' 21.114" N	89° 21' 12.240" E
40	26° 34' 19.496" N	89° 21' 13.411" E
41	26° 34' 17.401" N	89° 21' 15.318" E
42	26° 34' 14.434" N	89° 21' 16.978" E
43	26° 34' 11.442" N	89° 21' 17.032" E

AD_AD1_TR_55_54

TORSA RIVER

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR-I
RIVER	TR	TORSA RIVER

Legend

- COORDINATE
- POTENTIAL BLOCK
- SAFETY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

Kilometers
0 0.1 0.2 0.4 0.6

POTENTIAL BLOCK AD_AD1_TR_56 OF TORSA RIVER

AD_AD1_TR_56		
Point_No	Latitude	Longitude
1	26° 33' 58.940" N	89° 21' 20.267" E
2	26° 33' 54.527" N	89° 21' 20.774" E
3	26° 33' 50.654" N	89° 21' 21.054" E
4	26° 33' 47.652" N	89° 21' 20.634" E
5	26° 33' 45.188" N	89° 21' 20.225" E
6	26° 33' 42.952" N	89° 21' 18.984" E
7	26° 33' 42.122" N	89° 21' 17.175" E
8	26° 33' 38.715" N	89° 21' 15.313" E
9	26° 33' 39.953" N	89° 21' 14.395" E
10	26° 33' 32.240" N	89° 21' 11.444" E
11	26° 33' 32.699" N	89° 21' 8.738" E
12	26° 33' 33.482" N	89° 21' 6.842" E
13	26° 33' 34.596" N	89° 21' 4.476" E
14	26° 33' 36.002" N	89° 21' 3.907" E
15	26° 33' 39.547" N	89° 21' 3.979" E
16	26° 33' 40.976" N	89° 21' 4.008" E
17	26° 33' 43.179" N	89° 21' 4.897" E
18	26° 33' 44.373" N	89° 21' 5.479" E
19	26° 33' 51.759" N	89° 21' 8.812" E
20	26° 33' 52.381" N	89° 21' 10.412" E
21	26° 33' 54.035" N	89° 21' 14.388" E
22	26° 33' 55.716" N	89° 21' 16.693" E
23	26° 33' 58.039" N	89° 21' 19.001" E
24	26° 33' 57.808" N	89° 21' 19.012" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR-I
RIVER	TR	TORSA RIVER

AD_AD1_TR_56

TORSA RIVER

N S E W

Legend

- COORDINATE
- POTENTIAL BLOCK
- SAFETY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

Kilometers
0 0.075 0.15 0.3 0.45

89°20'35"E 89°20'40"E 89°20'45"E 89°20'50"E 89°20'55"E 89°21'0"E 89°21'5"E 89°21'10"E 89°21'15"E 89°21'20"E 89°21'25"E 89°21'30"E 89°21'35"E

26°34'0"N 26°33'55"N 26°33'50"N 26°33'45"N 26°33'40"N 26°33'35"N 26°33'30"N 26°33'25"N 26°33'20"N

POTENTIAL BLOCK AD_AD1_TR_57 OF TORSA RIVER

AD_AD1_TR_57		
Point_No	Latitude	Longitude
1	26° 33' 19.078" N	89° 21' 12.801" E
2	26° 33' 16.563" N	89° 21' 11.033" E
3	26° 33' 16.801" N	89° 21' 10.287" E
4	26° 33' 17.238" N	89° 21' 10.032" E
5	26° 33' 16.325" N	89° 21' 8.477" E
6	26° 33' 15.706" N	89° 21' 8.757" E
7	26° 33' 15.448" N	89° 21' 8.243" E
8	26° 33' 13.677" N	89° 21' 8.947" E
9	26° 33' 13.609" N	89° 21' 8.922" E
10	26° 33' 9.519" N	89° 21' 5.870" E
11	26° 33' 9.216" N	89° 21' 5.627" E
12	26° 33' 7.215" N	89° 21' 3.319" E
13	26° 33' 3.714" N	89° 21' 0.620" E
14	26° 33' 1.072" N	89° 20' 57.937" E
15	26° 32' 58.532" N	89° 20' 55.615" E
16	26° 32' 58.505" N	89° 20' 54.993" E
17	26° 33' 4.558" N	89° 20' 55.022" E
18	26° 33' 10.777" N	89° 20' 54.893" E
19	26° 33' 15.410" N	89° 20' 55.417" E
20	26° 33' 20.987" N	89° 21' 1.266" E
21	26° 33' 22.175" N	89° 21' 2.814" E
22	26° 33' 24.746" N	89° 21' 4.237" E
23	26° 33' 26.016" N	89° 21' 3.464" E
24	26° 33' 32.389" N	89° 21' 2.029" E
25	26° 33' 32.405" N	89° 21' 2.032" E
26	26° 33' 32.036" N	89° 21' 3.642" E
27	26° 33' 31.075" N	89° 21' 7.207" E
28	26° 33' 28.109" N	89° 21' 15.032" E
29	26° 33' 23.507" N	89° 21' 12.644" E
30	26° 33' 22.810" N	89° 21' 12.355" E
31	26° 33' 21.982" N	89° 21' 12.993" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR-I
RIVER	TR	TORSA RIVER

AD_AD1_TR_57

TORSA RIVER

Legend

- COORDINATE
- POTENTIAL BLOCK
- SAFETY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

Kilometers
0 0.075 0.15 0.3 0.45

89°20'25"E 89°20'30"E 89°20'35"E 89°20'40"E 89°20'45"E 89°20'50"E 89°20'55"E 89°21'0"E 89°21'5"E 89°21'10"E 89°21'15"E 89°21'20"E 89°21'25"E

26°33'35"N 26°33'30"N 26°33'25"N 26°33'20"N 26°33'15"N 26°33'10"N 26°33'5"N 26°33'0"N 26°32'55"N

POTENTIAL BLOCK AD_AD1_TR_58 OF TORSA RIVER

AD_AD1_TR_58		
Point_No	Latitude	Longitude
1	26° 32' 56.182" N	89° 20' 51.476" E
2	26° 32' 49.506" N	89° 20' 45.844" E
3	26° 32' 43.132" N	89° 20' 36.686" E
4	26° 32' 42.475" N	89° 20' 36.019" E
5	26° 32' 41.217" N	89° 20' 34.129" E
6	26° 32' 40.469" N	89° 20' 32.537" E
7	26° 32' 37.048" N	89° 20' 28.978" E
8	26° 32' 36.045" N	89° 20' 27.759" E
9	26° 32' 35.332" N	89° 20' 25.355" E
10	26° 32' 37.039" N	89° 20' 25.257" E
11	26° 32' 39.596" N	89° 20' 26.471" E
12	26° 32' 39.771" N	89° 20' 26.555" E
13	26° 32' 43.852" N	89° 20' 28.410" E
14	26° 32' 48.957" N	89° 20' 30.796" E
15	26° 32' 50.161" N	89° 20' 31.359" E
16	26° 32' 51.537" N	89° 20' 33.092" E
17	26° 32' 53.086" N	89° 20' 36.946" E
18	26° 32' 52.421" N	89° 20' 37.658" E
19	26° 32' 57.011" N	89° 20' 40.727" E
20	26° 32' 57.403" N	89° 20' 43.938" E
21	26° 32' 58.770" N	89° 20' 45.758" E
22	26° 32' 59.368" N	89° 20' 48.638" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR-I
RIVER	TR	TORSA RIVER

AD_AD1_TR_58

TORSA RIVER

Legend

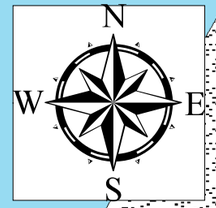
- COORDINATE
- POTENTIAL BLOCK
- SAFETY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

Kilometers
0 0.05 0.1 0.2 0.3

89°20'5"E 89°20'10"E 89°20'15"E 89°20'20"E 89°20'25"E 89°20'30"E 89°20'35"E 89°20'40"E 89°20'45"E 89°20'50"E 89°20'55"E

26°33'0"N 26°32'55"N 26°32'50"N 26°32'45"N 26°32'40"N 26°32'35"N 26°32'30"N

POTENTIAL BLOCK AD_AD1_TR_59 OF TORSA RIVER



TORSA RIVER

AD_AD1_TR_59

AD_AD1_TR_59

Point_No	Latitude	Longitude
1	26° 32' 34.702" N	89° 20' 37.528" E
2	26° 32' 32.016" N	89° 20' 36.687" E
3	26° 32' 32.643" N	89° 20' 34.853" E
4	26° 32' 33.340" N	89° 20' 34.293" E
5	26° 32' 34.972" N	89° 20' 34.326" E
6	26° 32' 36.944" N	89° 20' 34.653" E
7	26° 32' 38.426" N	89° 20' 34.635" E
8	26° 32' 39.756" N	89° 20' 36.139" E
9	26° 32' 39.689" N	89° 20' 40.252" E
10	26° 32' 37.611" N	89° 20' 40.302" E

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR-I
RIVER	TR	TORSA RIVER

Legend

- COORDINATE
- POTENTIAL BLOCK
- SAFETY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

Kilometers
0 0.035 0.07 0.14 0.21

89°20'25"E 89°20'30"E 89°20'35"E 89°20'40"E 89°20'45"E

26°32'40"N 26°32'35"N 26°32'30"N

POTENTIAL BLOCK AD_AD1_TR_60 OF TORSA RIVER

AD_AD1_TR_60		
Point_No	Latitude	Longitude
1	26° 32' 32.683" N	89° 20' 49.245" E
2	26° 32' 30.773" N	89° 20' 48.894" E
3	26° 32' 30.891" N	89° 20' 47.127" E
4	26° 32' 26.258" N	89° 20' 47.869" E
5	26° 32' 25.388" N	89° 20' 47.883" E
6	26° 32' 22.388" N	89° 20' 47.297" E
7	26° 32' 18.864" N	89° 20' 47.516" E
8	26° 32' 16.009" N	89° 20' 47.754" E
9	26° 32' 15.151" N	89° 20' 47.825" E
10	26° 32' 9.602" N	89° 20' 47.712" E
11	26° 32' 7.582" N	89° 20' 47.194" E
12	26° 32' 3.940" N	89° 20' 46.259" E
13	26° 32' 0.169" N	89° 20' 45.622" E
14	26° 31' 55.906" N	89° 20' 44.995" E
15	26° 31' 49.469" N	89° 20' 44.142" E
16	26° 31' 45.184" N	89° 20' 39.769" E
17	26° 31' 40.857" N	89° 20' 35.986" E
18	26° 31' 35.950" N	89° 20' 31.159" E
19	26° 31' 31.011" N	89° 20' 25.948" E
20	26° 31' 30.915" N	89° 20' 25.848" E
21	26° 31' 32.898" N	89° 20' 26.448" E
22	26° 31' 36.913" N	89° 20' 30.591" E
23	26° 31' 43.290" N	89° 20' 34.519" E
24	26° 31' 45.274" N	89° 20' 34.903" E
25	26° 31' 48.704" N	89° 20' 35.192" E
26	26° 31' 49.287" N	89° 20' 35.769" E
27	26° 31' 49.042" N	89° 20' 35.773" E
28	26° 31' 57.619" N	89° 20' 39.615" E
29	26° 32' 5.882" N	89° 20' 40.261" E
30	26° 32' 16.346" N	89° 20' 44.297" E
31	26° 32' 20.953" N	89° 20' 43.819" E
32	26° 32' 22.816" N	89° 20' 41.632" E
33	26° 32' 24.129" N	89° 20' 41.828" E
34	26° 32' 27.519" N	89° 20' 38.218" E
35	26° 32' 31.466" N	89° 20' 38.298" E
36	26° 32' 40.152" N	89° 20' 45.882" E
37	26° 32' 43.345" N	89° 20' 47.739" E
38	26° 32' 45.003" N	89° 20' 49.334" E
39	26° 32' 42.442" N	89° 20' 49.373" E
40	26° 32' 37.668" N	89° 20' 49.276" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR-I
RIVER	TR	TORSA RIVER

TORSA RIVER

AD_AD1_TR_60

N

S

E

W

Legend

- COORDINATE
- POTENTIAL BLOCK
- SAFETY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

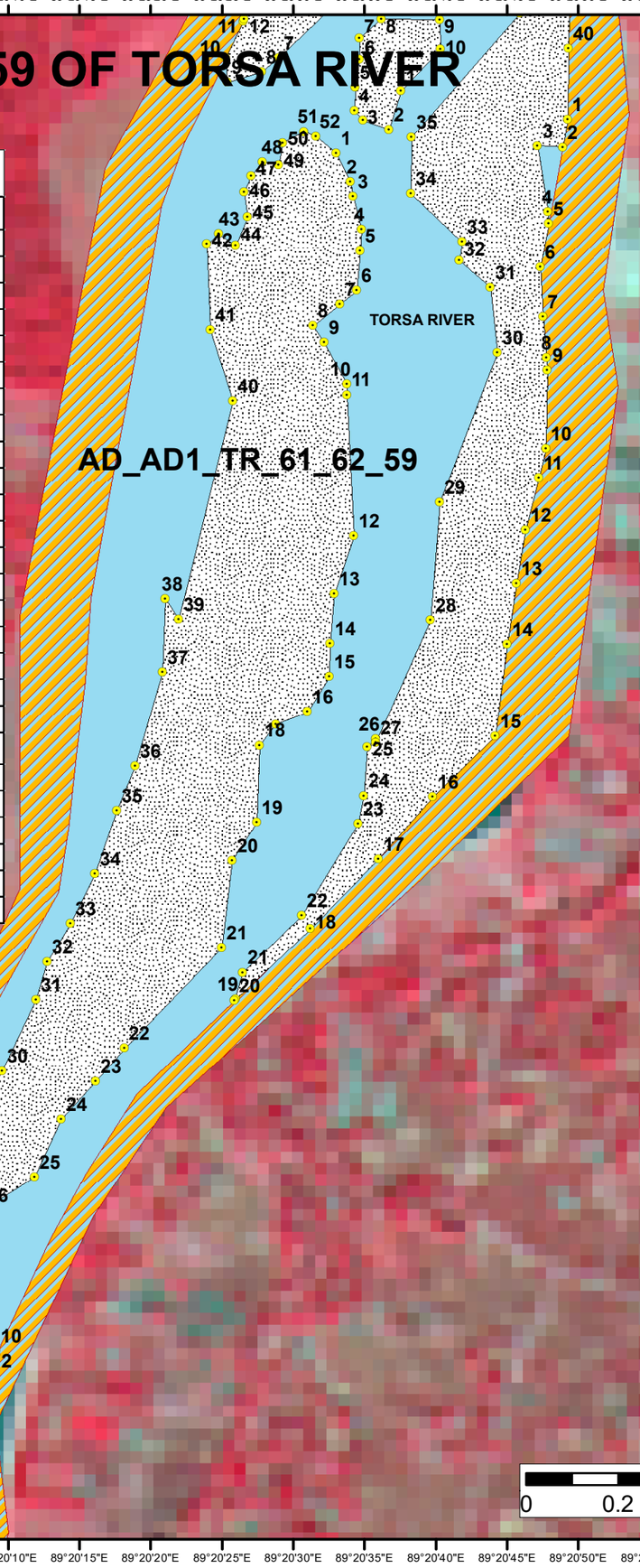
Kilometers

0 0.175 0.35 0.7 1.05

POTENTIAL BLOCK AD_AD1_TR_61_62_59 OF TORSA RIVER

AD_AD1_TR_61_62_59

Point_No	Latitude	Longitude	Point_No	Latitude	Longitude
1	26° 32' 30.353" N	89° 20' 32.990" E	27	26° 31' 12.937" N	89° 20' 5.260" E
2	26° 32' 28.359" N	89° 20' 34.001" E	28	26° 31' 11.801" N	89° 20' 2.490" E
3	26° 32' 27.325" N	89° 20' 34.171" E	29	26° 31' 20.331" N	89° 20' 6.485" E
4	26° 32' 24.993" N	89° 20' 34.793" E	30	26° 31' 25.975" N	89° 20' 9.585" E
5	26° 32' 23.534" N	89° 20' 34.667" E	31	26° 31' 30.987" N	89° 20' 11.956" E
6	26° 32' 20.702" N	89° 20' 34.419" E	32	26° 31' 33.660" N	89° 20' 12.727" E
7	26° 32' 19.792" N	89° 20' 33.269" E	33	26° 31' 36.327" N	89° 20' 14.367" E
8	26° 32' 18.223" N	89° 20' 31.354" E	34	26° 31' 39.824" N	89° 20' 16.063" E
9	26° 32' 17.061" N	89° 20' 32.152" E	35	26° 31' 44.269" N	89° 20' 17.586" E
10	26° 32' 14.134" N	89° 20' 33.765" E	36	26° 31' 47.342" N	89° 20' 18.891" E
11	26° 32' 13.391" N	89° 20' 33.750" E	37	26° 31' 53.944" N	89° 20' 20.796" E
12	26° 32' 3.481" N	89° 20' 34.219" E	38	26° 31' 59.077" N	89° 20' 21.011" E
13	26° 31' 59.446" N	89° 20' 32.837" E	39	26° 31' 57.686" N	89° 20' 21.938" E
14	26° 31' 55.944" N	89° 20' 32.536" E	40	26° 32' 12.976" N	89° 20' 25.738" E
15	26° 31' 53.607" N	89° 20' 32.489" E	41	26° 32' 17.945" N	89° 20' 24.166" E
16	26° 31' 51.156" N	89° 20' 30.987" E	42	26° 32' 23.966" N	89° 20' 23.930" E
17	26° 31' 50.298" N	89° 20' 28.752" E	43	26° 32' 24.704" N	89° 20' 24.781" E
18	26° 31' 48.836" N	89° 20' 27.625" E	44	26° 32' 23.860" N	89° 20' 25.944" E
19	26° 31' 43.407" N	89° 20' 27.407" E	45	26° 32' 25.899" N	89° 20' 26.783" E
20	26° 31' 40.749" N	89° 20' 25.681" E	46	26° 32' 27.622" N	89° 20' 26.531" E
21	26° 31' 34.637" N	89° 20' 24.960" E	47	26° 32' 28.731" N	89° 20' 27.032" E
22	26° 31' 27.550" N	89° 20' 18.127" E	48	26° 32' 29.750" N	89° 20' 27.817" E
23	26° 31' 25.252" N	89° 20' 16.137" E	49	26° 32' 29.564" N	89° 20' 28.975" E
24	26° 31' 22.577" N	89° 20' 13.697" E	50	26° 32' 31.084" N	89° 20' 29.260" E
25	26° 31' 18.525" N	89° 20' 11.823" E	51	26° 32' 31.851" N	89° 20' 30.727" E
26	26° 31' 16.231" N	89° 20' 8.178" E	52	26° 32' 31.493" N	89° 20' 31.580" E



ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR-I
RIVER	TR	TORSA RIVER

Legend

- COORDINATE
- POTENTIAL BLOCK
- SAFETY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

Kilometers
0 0.2 0.4 0.8 1.2

POTENTIAL BLOCK AD_AD1_TR_63 OF TORSA RIVER

AD_AD1_TR_63		
Point_No	Latitude	Longitude
1	26° 30' 39.051" N	89° 19' 59.649" E
2	26° 30' 38.865" N	89° 19' 59.270" E
3	26° 30' 41.288" N	89° 19' 58.745" E
4	26° 30' 44.156" N	89° 19' 56.827" E
5	26° 30' 45.635" N	89° 19' 57.831" E
6	26° 30' 55.231" N	89° 20' 0.834" E
7	26° 30' 57.995" N	89° 20' 2.094" E
8	26° 31' 1.615" N	89° 20' 3.878" E
9	26° 31' 3.434" N	89° 20' 6.170" E
10	26° 31' 6.338" N	89° 20' 9.101" E
11	26° 31' 6.096" N	89° 20' 9.140" E
12	26° 31' 4.585" N	89° 20' 8.435" E
13	26° 31' 1.941" N	89° 20' 7.207" E
14	26° 30' 57.867" N	89° 20' 7.448" E
15	26° 30' 56.721" N	89° 20' 7.508" E
16	26° 30' 56.679" N	89° 20' 7.494" E
17	26° 30' 54.351" N	89° 20' 7.618" E
18	26° 30' 54.351" N	89° 20' 7.618" E
19	26° 30' 54.172" N	89° 20' 7.525" E
20	26° 30' 52.412" N	89° 20' 6.608" E
21	26° 30' 52.207" N	89° 20' 6.501" E
22	26° 30' 51.583" N	89° 20' 6.176" E
23	26° 30' 51.361" N	89° 20' 6.060" E
24	26° 30' 51.256" N	89° 20' 6.006" E
25	26° 30' 50.465" N	89° 20' 5.594" E
26	26° 30' 50.135" N	89° 20' 5.422" E
27	26° 30' 47.759" N	89° 20' 4.185" E
28	26° 30' 46.178" N	89° 20' 3.361" E
29	26° 30' 44.212" N	89° 20' 2.337" E
30	26° 30' 40.613" N	89° 20' 0.462" E
31	26° 30' 40.364" N	89° 20' 0.333" E
32	26° 30' 39.792" N	89° 20' 0.035" E
33	26° 30' 39.257" N	89° 19' 59.757" E

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR-I
RIVER	TR	TORSA RIVER

TORSA RIVER

Legend

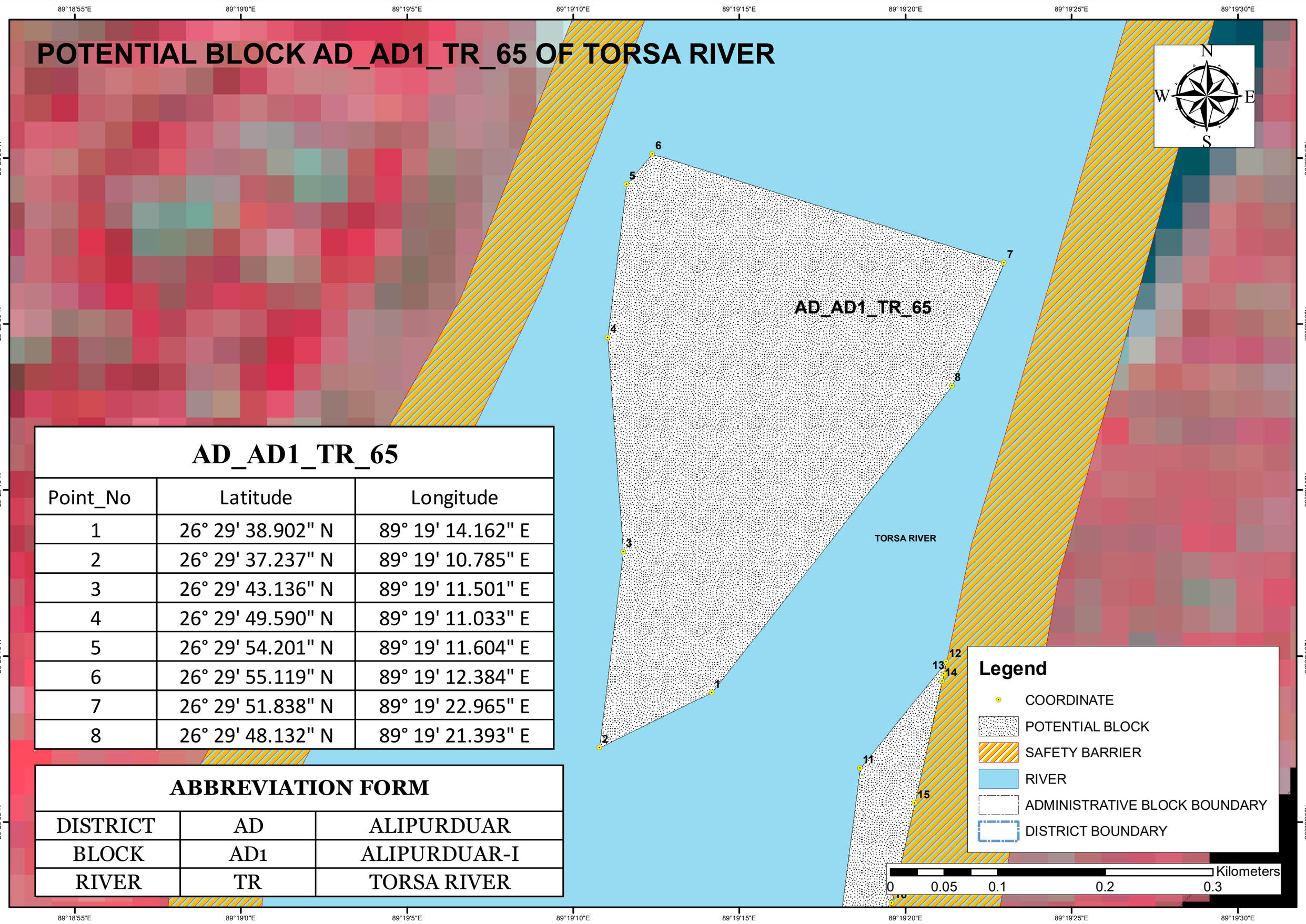
- COORDINATE
- POTENTIAL BLOCK
- SAFETY BARRIER
- RIVER
- ADMINISTRATIVE BLOCK BOUNDARY
- DISTRICT BOUNDARY

Kilometers
0 0.05 0.1 0.2 0.3

89°19'35"E 89°19'40"E 89°19'45"E 89°19'50"E 89°19'55"E 89°20'0"E 89°20'5"E 89°20'10"E 89°20'15"E 89°20'20"E

26°31'10"N 26°31'5"N 26°31'0"N 26°30'55"N 26°30'50"N 26°30'45"N 26°30'40"N 26°30'35"N

POTENTIAL BLOCK AD_AD1_TR_65 OF TORSA RIVER



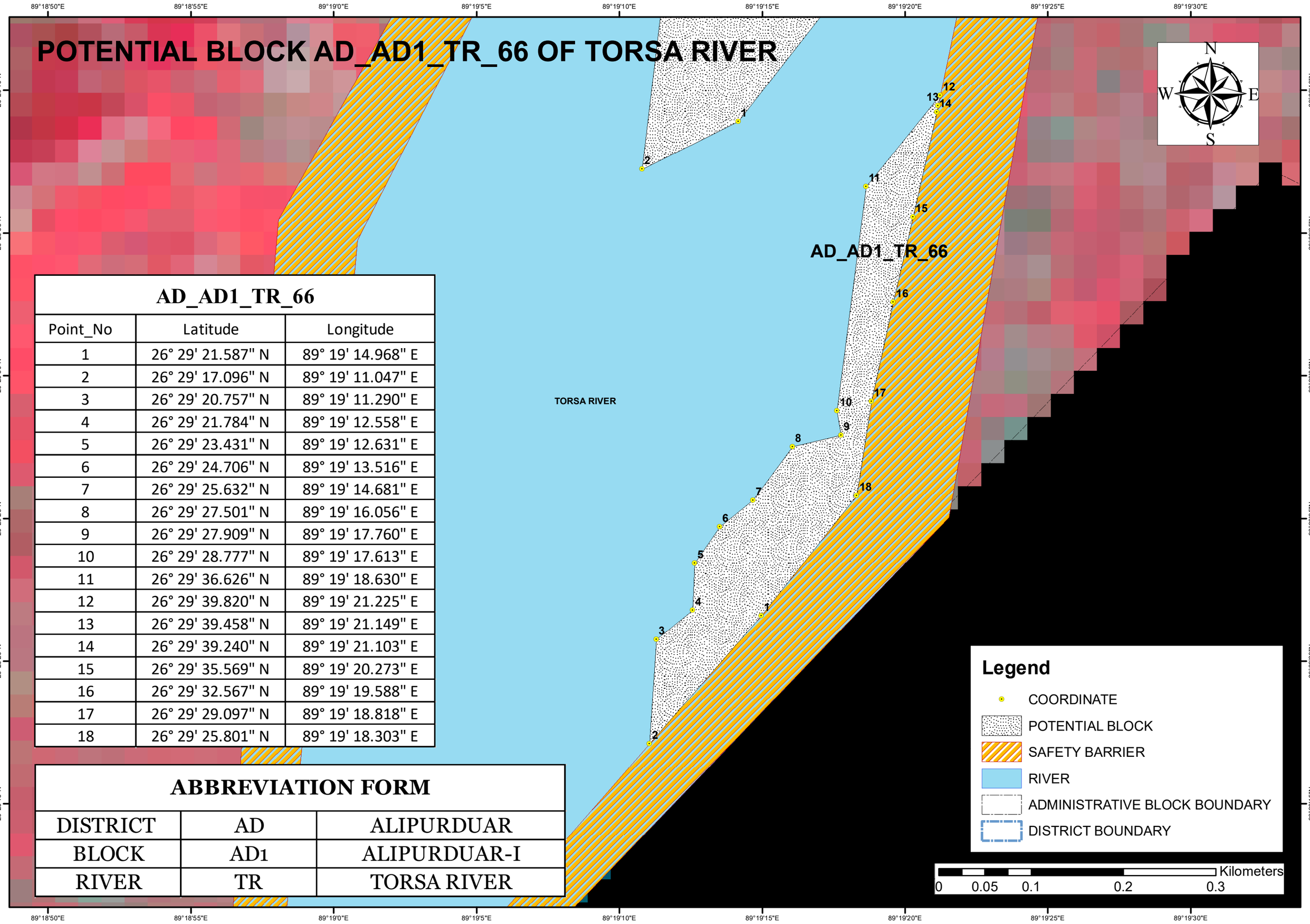
AD_AD1_TR_65

Point_No	Latitude	Longitude
1	26° 29' 38.902" N	89° 19' 14.162" E
2	26° 29' 37.237" N	89° 19' 10.785" E
3	26° 29' 43.136" N	89° 19' 11.501" E
4	26° 29' 49.590" N	89° 19' 11.033" E
5	26° 29' 54.201" N	89° 19' 11.604" E
6	26° 29' 55.119" N	89° 19' 12.384" E
7	26° 29' 51.838" N	89° 19' 22.965" E
8	26° 29' 48.132" N	89° 19' 21.393" E

ABBREVIATION FORM

DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR-I
RIVER	TR	TORSA RIVER

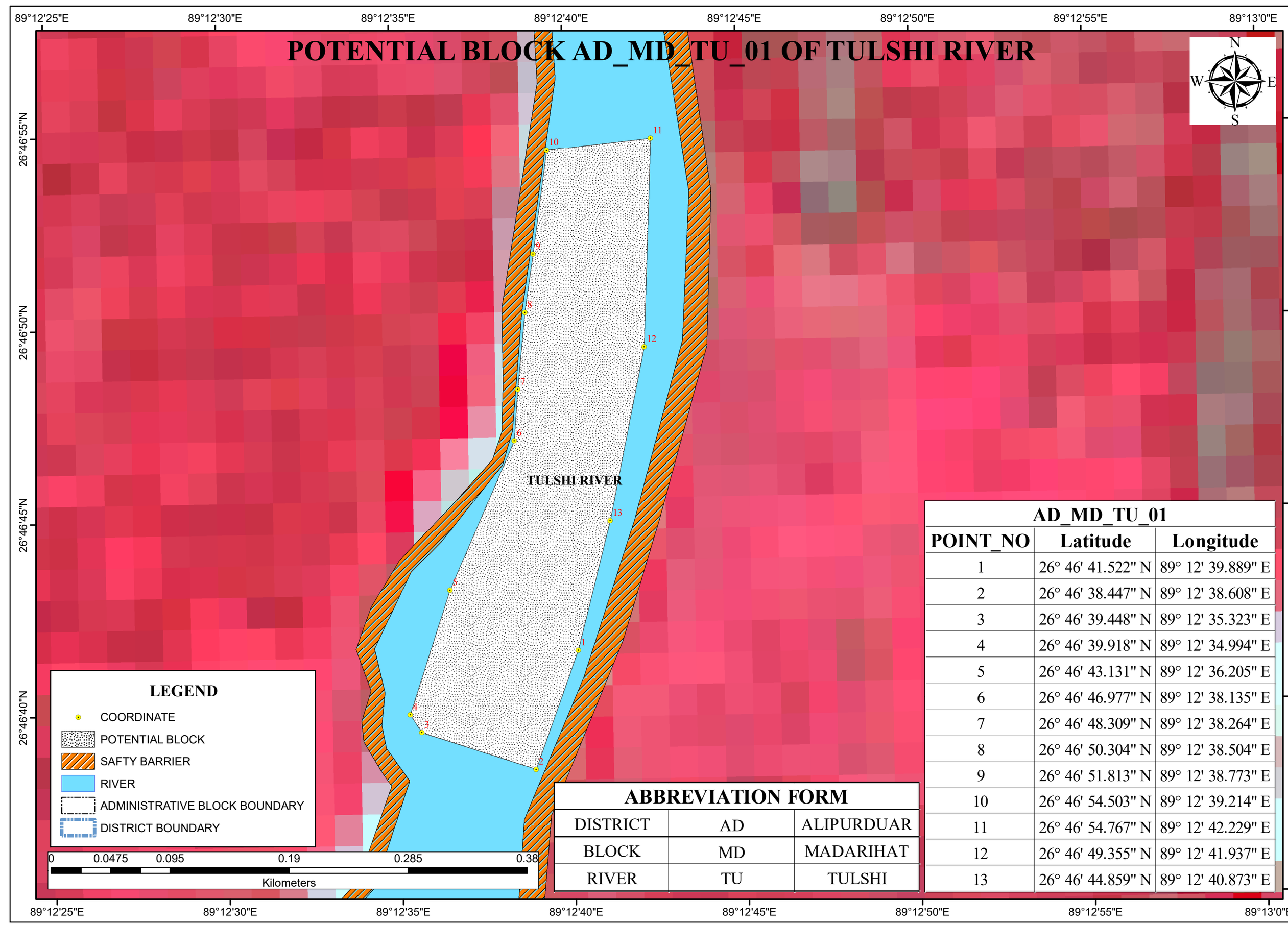
POTENTIAL BLOCK AD_AD1_TR_66 OF TORSA RIVER



AD_AD1_TR_66		
Point_No	Latitude	Longitude
1	26° 29' 21.587" N	89° 19' 14.968" E
2	26° 29' 17.096" N	89° 19' 11.047" E
3	26° 29' 20.757" N	89° 19' 11.290" E
4	26° 29' 21.784" N	89° 19' 12.558" E
5	26° 29' 23.431" N	89° 19' 12.631" E
6	26° 29' 24.706" N	89° 19' 13.516" E
7	26° 29' 25.632" N	89° 19' 14.681" E
8	26° 29' 27.501" N	89° 19' 16.056" E
9	26° 29' 27.909" N	89° 19' 17.760" E
10	26° 29' 28.777" N	89° 19' 17.613" E
11	26° 29' 36.626" N	89° 19' 18.630" E
12	26° 29' 39.820" N	89° 19' 21.225" E
13	26° 29' 39.458" N	89° 19' 21.149" E
14	26° 29' 39.240" N	89° 19' 21.103" E
15	26° 29' 35.569" N	89° 19' 20.273" E
16	26° 29' 32.567" N	89° 19' 19.588" E
17	26° 29' 29.097" N	89° 19' 18.818" E
18	26° 29' 25.801" N	89° 19' 18.303" E

ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	AD1	ALIPURDUAR-I
RIVER	TR	TORSA RIVER

POTENTIAL BLOCK AD_MD_TU_01 OF TULSHI RIVER



ABBREVIATION FORM		
DISTRICT	AD	ALIPURDUAR
BLOCK	MD	MADARIHAT
RIVER	TU	TULSHI

AD_MD_TU_01		
POINT_NO	Latitude	Longitude
1	26° 46' 41.522" N	89° 12' 39.889" E
2	26° 46' 38.447" N	89° 12' 38.608" E
3	26° 46' 39.448" N	89° 12' 35.323" E
4	26° 46' 39.918" N	89° 12' 34.994" E
5	26° 46' 43.131" N	89° 12' 36.205" E
6	26° 46' 46.977" N	89° 12' 38.135" E
7	26° 46' 48.309" N	89° 12' 38.264" E
8	26° 46' 50.304" N	89° 12' 38.504" E
9	26° 46' 51.813" N	89° 12' 38.773" E
10	26° 46' 54.503" N	89° 12' 39.214" E
11	26° 46' 54.767" N	89° 12' 42.229" E
12	26° 46' 49.355" N	89° 12' 41.937" E
13	26° 46' 44.859" N	89° 12' 40.873" E

ANNEXURE 5.1

Compliance to the Observations
Government of West Bengal
Office of the District Magistrate & Collector Alipurduar
District Survey Report, Alipurduar, West Bengal
Memo No. 812/IV-06/6/MM/DLLRO(APD)/2021, dated 15.09.2021

<table>
<tr><th>SL NO</th><th>OBSERVATIONS</th><th>COMPLIANCE</th></tr>
<tr><td>1</td><td>One Municipality i.e. Alipurduar Municipality mentioned in paragraph No 4 line No 6 of 1. Preface contained in Page No. 1 of the DSR to be replaced by two Municipalities i.e.i) Alipurduar Municipality & ii) Falakata Municipality</td><td>Complied With. Please refer 1. Preface.</td></tr>
<tr><td>2</td><td>One Municipality i.e. Alipurduar Municipality mentioned in paragraph No 1 line No 6 of 3. General Profile contained in Page No. 18 of the DSR to be replaced by two Municipalities i.e.i) Alipurduar Municipality & ii) Falakata Municipality</td><td>Complied With. Please refer 3. General Profile of the District.</td></tr>
<tr><td>3</td><td>Police Station "Barobisa, Ghoksadanga" to be replaced by "Kumargram" -Mentioned in 5th Row of Column 2 in Tabie No. 3.1 in Page No. 20.</td><td>Complied With. Please refer Table No 3.1.</td></tr>
<tr><td>4</td><td>Police Station "Banarhat" to be replaced by "Kalchini" - Mentioned in 6th Row of Column 2 in Table No. 3.1 in Page No. 20</td><td>Complied With. Please refer Table No 3.1.</td></tr>
<tr><td>5</td><td>Paragraph No. 3 under Table No. 3.7: Details of Forest area in Page No. 32 & 33 contains details of Chapramari to be deleted as Chapramari is located in Jalpaiguri District</td><td>Complied With. 3. General Profile of the District.</td></tr>
<tr><td>6</td><td>C. Detail of production of sand and other minerals during last three years" to be replaced by "C. Detail of production of sand and other minerals during last four years" mentioned in Page No. 100</td><td>Complied With. Please refer 8. Overview of mining activity in the district.</td></tr>
<tr><td>7</td><td>"Table No. 8.3: Detail of production of sand and other minerals during last three years" to be replaced by "Table No. 8.3: Detail of production of sand and other minerals during last four years" mentioned in Page No. 100</td><td>Complied With. Please refer 8. Overview of mining activity in the district, Table No. 8.3.</td></tr>
<tr><td>8</td><td>Table 8.3 in Page No. 100 to be replaced by,
<table>
<tr><th>Sl. No.</th><th>Year</th><th>Sand in cft</th><th>Stone in cft</th><th>Total Production</th></tr>
<tr><td>1</td><td>2017-2018</td><td>156812900</td><td>47498300</td><td>204311200</td></tr>
<tr><td>2</td><td>2018-2019</td><td>30026580</td><td>43601600</td><td>73628180</td></tr>
<tr><td>3</td><td>2019-2020</td><td>23465400</td><td>38748600</td><td>62214000</td></tr>
<tr><td>4</td><td>2020-2021</td><td>17552900</td><td>32096300</td><td>49649200</td></tr>
</table></td><td>Complied With. Please refer 8. Overview of mining activity in the district, Table No. 8.3.</td></tr>
<tr><td>9</td><td>Details of revenue generated from mineral sector during last three years to be replaced by “Details of revenue generated from mineral sector during last four years”</td><td>Complied With. Please refer 9. Details of revenue generated</td></tr>
</table>

<table>
<tr><td></td><td>mentioned in Page No. 101</td><td>from mineral sector during last four years.</td></tr>
<tr><td>10</td><td>Table in Page No. 101 to be replaced by
<table>
<tr><th>Year</th><th>Royalty/ deed rent</th><th>Cess</th><th>Surface rent</th><th>Total</th></tr>
<tr><td>2017-18</td><td>123916800</td><td>14766595</td><td>0</td><td>138683395</td></tr>
<tr><td>2018-19</td><td>110442270</td><td>13224307</td><td>0</td><td>123666577</td></tr>
<tr><td>2019-20</td><td>93321000</td><td>11269530</td><td>0</td><td>104590530</td></tr>
<tr><td>2020-21</td><td>74473800</td><td>9052195</td><td>0</td><td>83525995</td></tr>
</table></td><td>Complied With. Please refer 9. Details of revenue generated from mineral sector during last four years, Table No 9.1.</td></tr>
<tr><td>11</td><td>Annexure 1: List of Bricks Earth Mines in Alipurduar District” mentioned in Page No. 1/8 to 8/8-may be removed from the DSR which includes the temporary mining areas used by various contractors for extracting Earth/soil for various Govt. developmental projects and Mining areas for different Brick Fields of this district. These Mining areas are no more in use and hence may be removed from the District Survey Report.</td><td>Complied With. List of Bricks Earth Mines in Alipurduar District (Annexure 1) has been removed.</td></tr>
</table>



ANNEXURE 5.2

Compliance to the Minutes of the twenty-eighth meeting of the reconstituted State Level Expert Appraisal Committee, West Bengal held on 08.01.2022 at 10:30 a.m. at the Conference Room, Paribesh Bhawan, Kolkata

Sl. No.	Observations	Compliance
1	In the drainage map watersheds and micro-watersheds should be marked	The watershed level upto 3rd order streams are marked in the drainage map and is depicted in Plate No. 3A
2	Hydrographs at key intersections along the entire stretch of the river falling in the particular district along with a discussion on the runoff of the river in the upstream and downstream within the district.	Given in section 3.6 page no 26 to 27. Depth of mining has been selected in accordance with the depth to water level depicting from the Hydrographs.
3	A separate map showing locations of dams, barrages, bridge, river bed tube wells, river bed collector wells and infiltration galleries.	Given as Plate no 1B. All major bridges, Barrages, river bed wells, and other hydraulic structures are marked in the drainage map of the district and also labelled.
4	Depth to base flow in the riverbed sand mining areas, present and proposed, in pre-monsoon and post-monsoon periods.	Depth of the base flow is below proposed mining depth as observed from the field study. During study period, no mining activity commenced.
5	Field photographs showing activities of replenishment study.	representative Photographs of Survey of the River bed profile used for replenishment and aggradation measurement study is being furnished in Plate No. 4.
6	A map showing long-term (10-year or more) erosion-accretion areas on both the banks of the rivers which would help to identify no-mining zone on the river bed along with a discussion.	Given in Plate no 5A & 5B. Though all the rivers of the district doesn't shows much difference when studied the image archives from 1985 to 2021, however, a stretch of Jayanti River is being furnished as one of the representative image detection study.
7	In each proposed block, the RL of the sand surface (pre and post Monsoon) will be useful and the suggested mining depth corresponds to a particular RL of the deepest layer mined (not depth on absolute terms in case replenished quantity is different)	Elevation levels for each potential zones are furnished in Annexure-2. However, DGPS survey of each blocks shall be carried while preparation of the Mining Plans and final adjustment of depth parameters shall be done accordingly. In no circumstances, mining depth shall be increased beyond the depth suggested for each potential zones in this DSR.
8	Depth of mining considered for calculation of potential reserve. It presumes that base flow depth is more than the mining depth in pre-monsoon period. That needs to be substantiated with data for each block.	Depth of Mining Considered for each potential zones are furnished on the basis of average and is given in Table no 7.13, Page no 89-90. However, after finalization of the sand Blocks, each blocks shall be surveyed again during the course of Mining Plan preparation and final depths shall be suggested accordingly.
9	Ground water level pre and post monsoon in the watershed (of district) may be put in a map.	Complied with. The same has been furnished as Plate no 3B and 3C.

Sl. No.	Observations	Compliance
10	It was also suggested to show in maps the approach roads (accessibility plan complying with guidelines) for the blocks.	The major transport networks for the district are depicted in Figure no 10.2, Page no 115. The accessibility from each block shall be detailed in the Mining Plan.
11	Sand mining in designated upstream blocks may affect the replenishment in blocks downstream and this consideration may be relevant for estimating the percentage of replenishment. What should be the percentage for minable reserve with respect to potential reserve of sand?	This study shall be undertaken by the Mines Branch, Dep. of Industry, Commerce & Enterprise, GoWB in subsequent years and annual reports shall be generated covering these points. However, as per the EMGSM, 2020, not more than 60% of the area will be covered under extraction plan.
12	Data on river flow on all seasons and the sediment load data (especially during seasons of replenishment) will constitute a baseline condition to judge any effect of increased mining on the river flow characteristics.	This study shall be undertaken by the Mines Branch, Dep. of Industry, Commerce & Enterprise, GoWB in subsequent years and annual reports shall be generated covering these points.
13	Existing mining leases may be shown on river map along with potential blocks	Existing Mining Leases having Environmental Clearance as on 31st January, 2022 are furnished in Plate no 2A and 2B.
14	On the river map, potential new blocks and existing blocks may also be designated by serial or code number so that it matches with the tables.	Furnished in Plate no 2A and 2B
15	It will be appropriate if the methodology adopted (not only the available theory) for annual replenishment estimation is clearly and objectively narrated with applicable data and sample calculations.	Change detection through satellite imagery study, Field evidences and empirical formulae are utilized for replenishment study. Detail discussion are done in section 7 of this report.
16	Representative satellite and/or drone photography, if used for surveying, may also be produced in DSR.	All the plates are satellite imagery based and are furnished in Plate no 2A and 2B.
17	The suggested mining depth should be indicated for each block in the table (not done for PurbaBardhaman).	Complied with. Suggested mining depths are furnished in Annexure-2.
18	Order of sections in the report are not logical in some reports.	Corrected and as per specified format of DSR.
19	A table showing all general compliances in DSR as per the Mining Rules may be furnished.	Complied with. Given as Annexure-1.
20	For existing mines (sand and other minerals), minable reserve has not been mentioned.	Details of the mining leases given in Table no 8.1& 8.2, Page no 100-110.

Sl. No.	Observations	Compliance
21	All the documents leave much to be desired in respect of reserve assessment and replenishments estimations.	Given in section 7.2/V, page no 61-87
22	Reserve assessment has been rudimentary and the replenishment estimation needs to be carried out using accepted methods and models available for the purpose.	No attempt has been done for mineable reserve assessment in this DSR. Efforts have been restricted to define the potential sand resources in each rivers of the district. Mineable reserve estimation shall be done once the Blocks are demarcated as per West Bengal Minor Mineral Concession Rules, 2016 and based on EMGSM 2020.
23	Rivers are one of the main sources to supply sand for construction projects. Depending on river morphology and hydraulic characteristics, its sediment transport capacity, and mining operation method, the extraction of river bed materials may affect its ecosystem through bank and bed erosion. This needs to be incorporated in the DSR.	Mining impact given in Chapter 11.
24	To advance the mechanisms of river pit infilling, the effects of various parameters (i.e., the distance between pits, the pit plan shape, the pit depth, sediment size, and approaching flow velocity) needs to be investigated.	This study shall be undertaken by the Mines Branch, Dep. of Industry, Commerce & Enterprise, GoWB in subsequent years and annual reports shall be generated covering these points.
25	Monitoring should provide data to evaluate the upstream and downstream effects of sand and gravel extraction activities, and long-term changes. A brief report summarizing the annual results of the physical and biological monitoring should document the evolution of the sites over time, and the cumulative effects of sand and gravel extraction. The summary should also recommend any maintenance or modification of extraction rates needed to minimize impacts of extraction.	This study shall be undertaken by the Mines Branch, Dep. of Industry, Commerce & Enterprise, GoWB in subsequent years and annual reports shall be generated covering these points.
26	Sand Replenishment, Geomorphology and Hydrology Physical monitoring requirements of sand and gravel extraction activities should include surveyed channel cross-sections, longitudinal profiles, bed material measurements, geomorphic maps, and discharge and sediment transport measurements. The physical data will illustrate bar replenishment and any changes in channel	Explained in detailed in Chapter no 7.

Sl. No.	Observations	Compliance
	morphology, bank erosion, or particle size.	
27	With reference to (point no 4.1.1 g) of enforcement guidelines 2020 read with Standard environmental conditions for sand mining (point no 8 page 73) of SSMMG-2016, all DSRs so prepared, should contain a chapter on NO MINING ZONE with name of mouza, dag no and geo references along with areas of sensitivity. Appraisal of the DSRs should NOT be taken for consideration without the chapter on NO MINING ZONE and AREAS of SENSITIVITY.	Section on No mining zone is given in Page no 95-96.
28	The areas of sensitivity should contain those NON-FOREST AREAS which are in excellent line of habitat for wild animals, birds, turtles, dolphins and other aquatic life, which need be excluded from the list of mining areas on ecological and environmental grounds. This is utmost necessary and has to be done to avoid conflict about wetland use in near future.	ENVIS centre on Wildlife and Protection areas map as published in August 2020, shows wildlife habitat in the potential sand mining areas.
29	For example, low lying swamps by the side of river Ajay in Paschim Midnapur and Ahiran lake, pathanbeel, Bishnupur beel area in Murshidabad District provide an excellent nitche for migratory birds in the winter. Part of river Damodar and the confluence of Damodar and Hooghly in East Barddhaman District house one of the last surviving habitats of endangered gangetic dolphin (Platinista gangeticus), should be identified in consultation with the concerned forest circles of the Department of Forests and to be excluded from the list of mining areas.	Part of comment 30.
30	Though all the DSRs so prepared, have not followed the same format yet it is felt that necessary remedial measures to mitigate the effect of mining and a reclamation plan in mined out areas should be included, especially in those DSRs which have not yet mentioned the same.	DSR Format Compliance under Notification S. O. 3611 (E), Dated 25th July 2018, Appendix-X (I).
31	Data, satellite imageries and allied information in respect of flora, fauna and their habitat biological environment, if collected from ENVIS	Source of all the secondary figures and tables included in the DSR.

Sl. No.	Observations	Compliance
	centre may be included in the DSRs for ready reference.	
32	DSR comprises of secondary data which are required to be endorsed by concerned Departments.	References for secondary data are furnished in the DSR under references.
33	Revision should be done every year and actual survey should be done.	This study shall be undertaken by the Mines Branch, Dep. of Industry, Commerce & Enterprises, GoWB in subsequent years and annual reports shall be generated covering these points.
34	It is to be clearly mentioned that there are no other minerals than sand in this district.	Noted.
35	Dates of NIC database and other data should be provided	Noted and given in page no 15-17.
36	Outcome / response to the public consultation should be mentioned	Given as compliance statements in the DSR.
37	No-Mining-Zone should be clearly mentioned with special mention to the ecologically and otherwise sensitive zones. Bridges and river-bed tubewells should also be clearly demarcated. Wildlife should also be considered	Restricted zone given as Plate no 2A and 2B. Location of bridges, dam given in 1B
38	Hydrographs of the rivers and volume of rain should be studied to correlate with the minable sand reserve	Incorporated in the Replenishment study section 7.2/V, page no 61-87.
39	Text parts (as in Chapter 6) should be provided with proper reference and citation of authentic books. Sources of Tables and figures should be mentioned. Some are very old data – those should be replaced by latest data	Source of all the secondary figures and tables included in the DSR
40	Depth of mining and distance from banks should be clearly mentioned and highlighted	Given in Table no 7.5.
41	Secondary (Collected) data/ map from other departments should be certified from the respective departments (e.g., Forest and wildlife data, demography, aquifer, transportation route to the blocks)	References used from Public Domain/ Websites are furnished in the Reference section in this DSR.
42	Evidence (like dated photographs) of surveying, collection of primary data to be provided	Field photographs are furnished in Plate 4.

Sl. No.	Observations	Compliance
43	Sample calculation and methodology for calculation for minable resource and replenishment data to be provided with proper units	Given in Table no 7.7 and Table no 7.14.
44	If any predictive model is used, its validity should be established	Predictive Model has been carried out based on EMGSM 2020. The validity checking requires consecutive study which needs to be undertaken by the concerned department.
45	Evidence for 4 times physical survey to be provided	Field photographs are furnished in Plate 4. Field registers are available at office and can be furnished on demand.
46	Land utilization and forests data are upto 2013/2014 – should be updated	Latest available data incorporated in the DSR.



ANNEXURE 5.3

Compliance to the SEAC members' comments received through mail on 25th March 2022

Sr. No.	Observations	Compliance
1	Inclusion executive summary at the beginning	Executive summary included in page no 2.
2	Compliance table of the DM/SEAC members' observations may be placed at the end. Instead, a table of compliance with the guidelines to be placed at the beginning indicating the page number	Complied with and given as separate document.
3	DSR specific observation should not be included in all in the compliance table of all the DSR.	Complied with.
4	DSR compliance table should come just after the executive summary	Complied with and given as Annexure-1.
5	Need to mention page number in the DSR compliance table.	Modified table furnished compliance given as Annexure-1.
6	Should include Brick Earth and its mining regulations.	Not Applicable
7	Legend should be given for sand bar coding	Complied with and furnished as abbreviation in page no 75.
8	Citation of reference should be given for Empirical formula by which Replenishment calculated.	Complied with and given in page no 81 to 85.
9	Map Source to be given for each map such as Watershed, Transport, Location, Drainage etc.	Complied with and given in Plate no 1 and 3.
10	Mention conclusion and Recommendation instead Summary	Complied with and given in page no 124.
11	Reference should be in a standard referencing format	Complied with and given in page no 128.
12	Source and date of collecting data for satellite imagery should be given.	Complied with and given in Plate no 2.

ANNEXURE 5.4

Compliance to the Minutes of the 61st meeting of the SEIAA, West Bengal held on 23.05.2022 at Kolkata

Sl. No.	Observations	Compliance
1	List of definitions of technical terms used in the DSR to be included.	Complied with.
2	Each potential zone should have a unique code no. and area bearing all the coordinates of all the points defining the boundary.	Complied with. Please refer Annexure 3.
3	A map showing the potential zone with the legend, mentioning all the coordinates of the polygon, defining the zone to be attached as annexure in the DSR.	Complied with. Please refer Annexure 4.
4	Dept. of Industry, Commerce & Enterprises will issue unique code with reference to the original coding of potential zones to each lessee. This unique code issued to lessee should be reflected in the LoI.	Shall be complied with.
5	Dept. of Industry, Commerce & Enterprises will upload the updated map showing the location of the LoI issued against the area and sand mining lease areas in different colour coding.	Shall be complied with.
6	Date of approval should be mentioned in all the pages of the annexures of DSRs.	Noted.
7	The consultant is further requested to refer the DSRs prepared by other states in order to confirm that no relevant point is missed out in any of our DSRs.	Complied with.
8	The consultant may also refer to the baseline data available with Irrigation Dept.	At present Replenishment Study is being conducted for all the sand producing Districts of West Bengal. This will be covered in the relevant reports.

ANNEXURE 5.5

Compliance to the Minutes of the 66th meeting of the SEIAA, West Bengal held on 06.07.2022 at Kolkata

Sl. No.	Observations	Compliance
1	The format of all the DSRs should be uniform.	Complied with.
2	The corrections required to be done regarding Annexure-3.	Complied with. Please refer Annexure 3.
3	List of existing lease is attached with the documents in Chapter 8.2. The list should contain the date of issue and validity.	Complied with. The details of the existing leases updated as per the data provided from concern department.
4	Sequence of meetings and observation given by SEAC and SEIAA should be mentioned in chronological order and be a part of the whole document.	Complied with. Please refer Annexure-5.



Annexure 6
SEIAA 69th Meeting (10nd August, 2022) Minutes of Meeting

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State Environment Impact Assessment Authority
Pranisampad Bhawan, 5th Floor, Sector-III, Salt Lake, Kolkata - 700106
(West Bengal)
Minutes of SEIAA Meeting

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Subject:- 69th meeting of SEIAA

Venue:- Conference Room of Environment Department, Prani Sampad Bhavan, 5th Floor, LB Block, Sector III, Salt Lake, Kolkata 700106.

From :- 10 Aug 2022

To :- 10 Aug 2022

1. Proposal No. :- **SIA/WB/IND3/72391/2020** File No- **EN/T-II-1/021/2020** Proposed Synthetic Resin Production Plant (UF Resin, PF Resin & MF Resin) for Laminate Manufacturing Unit at Dag No. 674, 680, 681, J.L No. 144, L.R KH-3068 Uluberia–Amta Road, Vill – Sherpur, P. O. – Panpur, P. S. – Amta, Mouza - Serpur, Block - Amta–I, Dist- Howrah, PIN – 711401, West Bengal by **M/s. Intim Laminates Pvt. Ltd.**	Type- **EC**

INTRODUCTION

The proponent made online application vide proposal no. **SIA/WB/IND3/72391/2020** dated **17 Mar 2022** along with copies of EIA/EMP seeking environment clearance under the provisions of the EIA Notification, 2006 for the above mentioned project. The proposed project activity is listed at SL.No. **5(f) Synthetic organic chemicals industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates)**, under Category "**B1**" of EIA Notification 2006 and the proposal is appraised at State level.

The **Proposed Synthetic Resin Production Plant (UF Resin, PF Resin & MF Resin) for Laminate Manufacturing Unit of M/s Intim Laminates Pvt. Ltd.** of M/s **M/S INTIM LAMINATES PVT. LTD.** located in Dag No. 674, 680, 681, J.L No. 144, L.R KH-3068 Uluberia–Amta Road, Vill – Sherpur, P. O. – Panpur, P. S. – Amta, Mouza - Serpur, Block - Amta–I, Dist- Howrah, PIN – 71140, **West Bengal** was initially received in the SEIAA on **09 Sep 2020** for obtaining Terms of Reference (ToR) as per EIA Notification,2006. The Project was appraised by the State Expert Appraisal Committee (Industrial Projects - 3) [SEAC] during its 8 th meeting held between **22 Dec 2020** to **22 Dec 2020** and prescribed ToRs to the project for undertaking detailed EIA study for obtaining Environmental Clearance. Accordingly, the SEIAA had prescribed ToRs to the project on **03 Feb 2021.**

The project was placed in the 65th meeting of SEIAA held on 23.06.2022 and it was observed that some documents required to be uploaded in the PARIVESH Portal. The project proponent uploaded documents on 14.07.2022.

PROJECT DETAILS

The project of **M/S INTIM LAMINATES PVT. LTD.** located in as follows :

State of the project				
S. No.	**State**	**District**	**Tehsil**	**Village**
(1.)	West Bengal	Howrah	Amta - I	Serpur

The production details / project configuration is as follows :

Project configuration/product details						
S. No.	Project configuration/product details	Quantity	Unit	Other Unit	Mode of Transport/Transmission of Product	Other Mode of Transport
(1.)	Decorative Laminates	300000	9	Sheets/M	Road	
(2.)	PF Resin	500	9	MT/Month	Road	
(3.)	MF Resin	300	9	MT/Month	Road	
(4.)	UF Resin	100	9	MT/Month	Road	

Raw Material Requirement is as follows :

Raw Material Requirement details								
S. No.	Item	Quantity per annum	Unit	Other Unit	Source	Mode of Transport/Transmission of Product	Other Mode of Transport	Distance of Source from Project Site(Kilometers)
(1.)	Melamine	1395.72	1		Local	Road		1
(2.)	Phenol	2715.84	1		Local	Road		1
(3.)	Acetic acid	27	1		Local	Road		1
(4.)	Caustic soda	286.2	1		Local	Road		1
(5.)	Paper	5400	1		Local	Road		1
(6.)	Formaldehyde	6445.32	1		Local	Road		1
(7.)	Industrial Urea	336	1		Local	Road		1

DELIBERATION IN SEIAA

SEIAA considered the submission made by the project proponent (PP) vide their letter No. NIL dated 14.07.2022 uploaded on 14.07.2022 and accepted the same.

RECOMMENDATIONS OF SEIAA

The application for EC is approved.

Conclusion

Recommended

S.No	Conditions
(1)	I **Statutory compliance** i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project. ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable. iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule- I species in the study area) iv. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board / Committee. v. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time. vi. The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989. **II. Air quality monitoring and preservation** i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986. iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common / criterion parameters relevant to the main pollutants released (e.g. PM_{10} and $PM_{2.5}$ in reference to PM emission, and SO_2 and NOx in reference to SO_2 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120^0 each), covering upwind and downwind directions. iv. To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and / or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB / SPCB guidelines. v. Storage of raw materials, coal etc. shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions. vi. National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R.608(E) dated 21st July, 2010 and amended from time to time shall be followed. vii. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R.No.826(E) dated 16th November, 2009 shall be complied with. **III. Water quality monitoring and preservation** i. The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel / drain carrying effluent within the premises (applicable in case of the projects achieving ZLD). ii. As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste / treated water shall be discharged outside the premises (applicable in case of the projects achieving the ZLD).

iii. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air / Water Act, whichever is more stringent.

iv. Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority / CGWA in this regard.

v. Process effluent / any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.

vi. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.

vii. The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.

IV. Noise monitoring and prevention

i. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.

ii. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers; enclosures etc. on all sources of noise generation.

iii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

V. Energy Conservation measures

i. The energy sources for lighting purposes shall preferably be LED based.

VI. Waste management

i. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.

ii. Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.

iii. The company shall undertake waste minimization measures as below:-

a. Metering and control of quantities of active ingredients to minimize waste.

b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.

c. Use of automated filling to minimize spillage.

d. Use of Close Feed system into batch reactors.

e. Venting equipment through vapour recovery system.

f. Use of high pressure hoses for equipment clearing to reduce wastewater generation.

VII. Green Belt

i. The green belt of 5-10 m. width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. The project proponent should follow plantation plan as approved by Forest Range Officer, Howrah Urban S. F. Range on 14.03.2022.

VIII. Safety, Public hearing and Human health issues

i. Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.

ii. The unit shall make the arrangement for protection of possible tire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.

iii. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.

iv. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.

v. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

vii. There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places

IX. Environment Management Plan (EMP)

i. The project proponent should submit the proposed EMP on a six monthly basis. The Office Memorandum issued by the MoEF & CC vide F. No. 22-65/2017-IA.III dated 30.09.2020 should be strictly followed.

ii. Need based activities for local people is part of the EMP. Details of such activities submitted by the project proponent is given in Annexure-1.

iii. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements / deviation / violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

iv. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.

v. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry / Regional Office along with the Six Monthly Compliance Report.

vi. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

X. Additional condition

1. An appropriate display board may be erected at a conspicuous location. The board may display the status of relevant environmental parameters and should provide the names of the institutions/ organisations benefitted by the schemes mentioned in the CER. It would be the proponent's (or their successors) responsibility to ensure that the board is maintained during the operation phase of the project.

XI. Miscellaneous

a) The environmental clearance accorded shall be valid for a period of 10 years for the proposed project.

b) The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.

c) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.

d) The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.

e) The project proponent shall monitor the criteria pollutants level namely; PM_{10}, SO_2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.

f) The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.

g) The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed. under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.

h) The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.

i) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.

j) The project proponent shall abide by all the commitments and recommendations made in the EIA / EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.

k) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).

l) Concealing factual data or submission of false / fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.

m) The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

n) The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

o) The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data / information / monitoring reports.

p) The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

q) Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Annexure-1

NEED BASED ACTIVITIES FOR LOCAL PEOPLE

Sl No	Proposed Activity (Heads may vary as per Recommendation of SEAC)	Investment (In Lacs)			Total	Collaborating Responsible Body
		1st Year	2nd Year	3rd Year		
1	Providing fund for items like Hand Washing Station at Sherpur Village (1st year), Gajipur Village (2nd year) and Majukhetra Village (3rd Year) under Bhandargachha Gram Panchayat	2.0	2.0	2.0	6.0	Panchayat Pradhan, Bhandargachha Gram Panchayat

2	Provision for sufficient service water supply and treatment of drinking water at Sherpur Village (1st year), Gajipur Village (2nd year) and Majukhetra Village (3rd Year) under Bhandargachha Gram Panchayat	1.5	1.5	1.5	4.5	Panchayat Pradhan, Bhandargachha Gram Panchayat
3	Donation to nearby Schools for construction & maintenance of toilets with running water, infrastructural support and training on environmental awareness including MSW segregation at Badogram Prathamik Vidyalaya (1st Year), Bhandargachha Balika Vidyalaya (2nd year) and Sashikant High School (3rd Year)	2.0	2.0	2.0	6.0	Head Master / Mistress / School authority of respective school
4	Providing fund for Sanitary napkin vending machine & incinerator for used napkins for nearby girls' schools like Aadarsh High School (1st Year), Bhandargachha Balika Vidyalaya (2nd year) and Sashikant High School (3rd Year)	4.5	4.5	4.5	13.5	Head Master / Mistress / School authority of respective school
	Total	**10**	**10**	**10.5**	**30.0**	

2. Proposal No. :- **SIA/WB/MIS/75122/2022** File No- **EN/T-II-1/034/2022**
Proposed development of an industrial complex 'Hosiery Park' at Mouza Jagadishpur, J.L. No 2, Mouza – Baigachhi, P.S. – Liluah, Dist. – Howrah, West Bengal by **M/s. West Bengal Hosiery Park Infrastructure Ltd.** (VIOLATION CASE) | Type- **TOR**

INTRODUCTION

This has reference to your online application vide proposal no. **SIA/WB/MIS/75122/2022** dated **19 May 2022** along with the copies of EIA/EMP seeking Terms of reference (TOR) under the provisions of the EIA Notification, 2006 for the above mentioned proposed project. The proposed project activity is listed at S.No **8(a) Building and Construction projects** under Category **B** of EIA Notification, 2006 and the proposal is appraised at state level.

SEAC recommended the proposal for Terms of Reference under violation category.

PROJECT DETAILS

The project of M/s **WEST BENGAL HOSIERY PARK INFRASTRUCTURE LIMITED** located in as follows :

State of the project			
S. No.	**State**	**District**	**Tehsil**
(1.)	West Bengal	Howrah	Bally Jagachha

Town/Village : **Jagadishpur**

The salient features of the project submitted by the project proponent is available at Report under online proposal no. **SIA/WB/MIS/75122/2022**

DELIBERATION IN SEIAA

SEIAA considered the recommendation of SEAC and accepted the same.

RECOMMENDATIONS OF SEIAA

SEIAA approved the proposal for ToR under violation category.

Conclusion

Recommended

S.No	Conditions
(1)	SEIAA grants Terms of Reference (ToR) for undertaking Environment Impact Assessment (EIA) and preparation of Environment Management Plan (EMP) and specific ToR for the assessment of ecological damage, remediation plan and natural and community resource augmentation plan as enumerated in **Annexure-2** along with the following additional ToR for proposed industrial complex project 'Hosiery Park' having G + 3 Storied buildings at Mouza Jagadishpur, J.L. No 2, Mouza – Baigachhi, P.S. – Liluah, Dist. – Howrah, West Bengal with the following conditions:- 1) The unit should abide by The West Bengal Trees (Protection and Conservation in Non-Forest Areas) Act, 2006 and subsequent rules. The proponent should undertake plantation of trees over at least 20% of the total area. DFO approved plantation plan should be submitted. 2) The project proponent should submit a compliance report of the Notifications issued by SEIAA, WB vide No. 3435/EN/T-II-1/011/2018 dated 30.10.2018 and No. 2495/EN/T-II-1/011/2018 dated 17.12.2019. 3) Notary Affidavit as per the enclosed format given in **Annexure – 3**. 4) Related documents mentioned in **Annexure – 4**. 5) Comparative statement of the salient features of the project **Annexure – 5**. 6) Sanction plans and other documents as mentioned in Notification issued by SEIAA vide No. 2495/EN/T-II-1/011/2018 dated 17.12.2019. 7) Damage assessment plan. 8) Remediation Plan. 9) Community Augmentation Plan. 10) Present status of construction of the project along with a few recent photographs. 11) Developers Agreement and Power of Attorney in the name of the project proponent. 12) Authenticated documents for the total project cost compared to the cost incurred till the date of submission of the EC application along with EIA/EMP. 13) Gross turn-over till the date of submission of EC application to be certified by Chartered Accountant. 14) Complete land documents along with mutation and conversion in the name of project proponent. Summary of the land schedule to be submitted. 15) Permission from the competent authority regarding water supply for the entire water requirement. 16) Concurrence for waste water discharge, storm water discharge, solid waste etc. from the competent authority. 17) EMP as per Office Memorandum of MoEF & CC vide F. No. 22-65/2017.IA.III dated 30.09.2020 needs to be submitted. Items like hand washing station, toilet facility with running

water, school infrastructure including incinerator for used sanitary napkins in case of girls' schools, provision for sufficient service water supply and treatment of drinking water, training on environmental awareness including MSW segregation etc. in nearby schools may be considered. Computer literacy training for the local youth may also be considered. Evidence of collecting data on the need of the locality should be submitted.

18) Onsite sanitation and safe drinking water facility during construction phase.
19) DFO approved tree plantation plan in 1:100 scale mentioning spacing of the trees and their names and numbers.
20) Details of STP along with scaled up drawings and flow diagrams. Report on influent analysis at the inlet to equalisation tank and effluent analyses from each individual process / unit operations to be submitted. Complete water balance in this regard should also be provided.
21) Drainage network at the site. Permission of discharge water with quantity specified.
22) While preparing the land use plan for the project area, the details (exact width and other dimensions) of the underground service lines including fire, electricity, sewerage and drainage may be depicted using different colours; it must be ensured that the area earmarked for exclusive tree plantation does not overlap with these underground service lines. The plan so prepared, may be certified by the project architect.
23) Mouza map showing all the dag nos.
24) All mandatory documents i.e. all sanction plans, Building Permits, NOC from WBF&ES, AAI Clearance etc. to be uploaded in the PARIVESH portal.
25) The provision of water meter with totaliser at freshwater inlets, ETP discharge and recycling lines.
26) Number of rainwater recharge wells should be as per standard guidelines. The wells should be only under the green area – no chemicals should be used in the green area so that the recharge water is not contaminated.
27) Plan for installation of digital display board for showing environmental parameters and EMP data.
28) Subsurface hydro-geological study of the area.
29) Arsenic monitoring in wells at different depths.
30) Detailed plan of solar power plant including PV array should be submitted. Area of rooftop to be provided.
31) Fuel requirement for DG sets.
32) Power requirement and connected load (process and non-process).
33) Car parking and truck parking area in the land use diagram.
34) Distance between the borewell and pumping schedule of the wells.
35) Accreditation of the consultant along with names of functional area expert and EIA coordinator should be uploaded in the PARIVESH portal.
36) Display board for environmental information during operation stage shall be installed. The following information shall be provided: -

    a. Daily consumption and quality of drinking water.
    b. Quality & quantity of inlet & outlet effluent from STP.
    c. Data from ambient air quality monitoring station.
    d. Data from ambient noise monitoring station.

All the data and information uploaded should conform to the provisions of the NBC, 2016.

The above-mentioned documents should be uploaded in the PARIVESH portal during application of EC.

The ToRs are valid for a period of one year, which can be extended for a maximum period of three years provided an application in this regard is submitted by the project proponent, well before expiry of the

validity period. EIA/EMP to be submitted before the expiry of the ToR for consideration of EC application or otherwise.

Annexure – 2

Terms of Reference for EIA and preparation of Environment Management Plan (EMP)

- Project description, its importance and the benefits.
- Project site details (location on toposheet of the study area of 10m, coordinates. google Map, layout map land use geological features and geo-hydrological status of the study area, drainage),
- Land use as per the approved Master Plan of the area. Permission/approvals required from the land owning agencies. Development Authorities, Local Body, Water Supply & Sewerage Board. Etc.,
- Land acquisition status and R&R details.
- Forest and Wildlife and eco-sensitive zones. if any in the study area of 10 km - Clearances require under the Forest (Conservation) Act. 1980, the Wildlife (Protection) Act, 1972 and/or the Environment (Protection) Act, 1986.
- Baseline environmental study for ambient air (PM10, PM2.5, S02, NOx CO), water (both surface and ground) noise and soil for one month (except monsoon period) as per MoEF&CC/CPCB guidelines at minimum 5 locations in the study area of 10 km.
- Details on flora and fauna and socio-economic aspects in the study area.
- Likely Impact of the project on the environmental parameters (ambient air, surface and ground water, land, flora and fauna and socio-economic etc).
- Source of water for different identified purposes with the permissions required from the concerned authorities, both for surface water and the ground water (by CGWA) as the case may be. Rain water harvesting, etc.
- Waste water management (treatment, reuse and disposal) for the project and also the study area.
- Management of solid waste and the construction & demolition wasta for the project vis-à-vis the Solid Waste Management Rules, 2016 and the Construction Demolition Rules, 2016.
- Energy efficient measures (LED lights, solar power, etc.) during construction as well as during operational phase of the project.
- Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act 1986. or an environmental laboratory accredited by NABL. or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.
- Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to Violation.
- The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultants.

Annexure – 3

UNDERTAKING for Building projects
(To be done on Non-Judicial Stamp Paper of valuation Rs.10/- and duly notarized)

I, son of _____(Father's Name)_____, resident _____(Address)_____ presently working ____(Designation)_____ of M/s. _____(Organization Name)_____ am authorized person of the above named organization, do hereby solemnly declare and state as follows :

1) THAT M/s._____ are the project proponent in respect of the _____(Prc

Name)_____.

2. THAT M/s._____ has constructed _____ sq.mt. built-up area at prem No._____.

3. THAT in terms of EIA Notification 2006 and amendments thereof, our project falls within the purv of environment clearance.

4. THAT M/s._____ has failed to get prior environmental clearance as per statu provisions of EIA Notification due to the reasons mentioned below: (please mentioned the reasons) –

i.
ii.
iii.
iv.

5. THAT M/s._____ has submitted the application form for obtaining necessary Te of Reference / Environmental Clearance as per EIA Notification, 2006 and its amendments issued by the Mini of Environment, Forest & Climate Change & Standard Operating Procedure (SoP) issued by MoEF&CC vid OM dated 07.07.2021 which was upheld by hon'ble Supreme Court vide its order dated 09.12.2021 (MoEF& O.M. No.22-21/2020-IA.III[E 138949] dated 28.01.2022).

6. Now I, on behalf of the Project Proponent undertake the followings :-

a) To comply with all statutory requirements/norms, for obtaining Environmental Clearance;
b) To take all necessary permissions/licences/clearances from the concerned Government Departments an submit compliance before the State Level Appraisal Committee, West Bengal;
c) To take all measures for the protection of the environment as may be prescribed by the Central Governn or the State Government from time to time at the expenses of the project proponent.

7. THAT the project proponent also undertakes not to repeat such violation in future, in case of violat the ToR/EC shall be liable to be terminated.

The above-mentioned statements are true to the best of my knowledge and belief.

DEPONENT

Annexure – 4

1. Compliance report of the Notification issued by SEIAA, WB vide No. 3435/EN/T-II-1/011/2018 dated 30.10.2018.
2. NABET Accredited Certificate
3. Project Cost (detailed breakup including present value of land cost to be submitted)
4. Details of Court Cases, if any
5. Land Documents
   - Porcha
   - Local body mutation
   - Land Conversion
6. Sanctioned plan
7. Building Configuration
   - As per Stipulation
   - As per Sanctioned Plan
   - Present Status and Configuration

8. Land use distribution plan showing % of land use as per sanctioned plan.
9. Services (STP, Rainwater Harvesting, Composter, Solar Power etc.) layout plan and its status of configuration.
10. Whether the services are adequate enough with respect to the status of occupancy.
11. All statutory clearance from competent authority as applicable.
    - Sources of water supply and its permission
    - Tree felling permission
    - Relocation of water body
    - PCCF clearance
    - Clearance from WBF&ES
    - Airport Authority clearance
    - DFO certified plantation plan.
12. Concurrence from competent authority regarding water supply, disposal of solid waste and liquid waste.
13. Drainage Pattern (both inside and outside)
14. Final place of discharge for the treated waste water and recipient water body.

Annexure – 5

Land Area	
Block details	
Nos. of flats	
Expected Population (as per NBC, 2016)	
Total Water requirement (as per NBC, 2016)	
Fresh Water requirement	
Wastewater generated	
Wastewater recycled	
Wastewater discharged	
Solid waste generation & disposal (as per NBC, 2016)	
Total Built-up Area	
Complete Area Statement along with percentage of the total land area adding upto 100%	
1. Ground Coverage with percentage of the total land area	
2. Service Area with percentage of the total land area	
3. Waterbody Area (if any), with percentage of the total land area	
4. Exclusive Tree Plantation Area with percentage of the total land area	
5. Other Green Area with percentage of the total land area	
6. Total Paved Area with percentage of the total land area	
7. Area for services	
8. Other area, if any.	
Peak power demand load for the project	
Solar power plant generation in KW & % of the connected load	
No. of Parking spaces proposed	
No. of Trees proposed	

Backup Power	
Project Cost (Rs.)	

MISCELLANEOUS

(1) Reasoned order in compliance with the directives of Hon'ble Calcutta High Court in W.P.A. 11523 of 2022 dated 30.06.2022.

In view of the decisions taken by the Dept. of Environment against filing of the appeal, the directives issued by the Hon'ble Calcutta High Court in W.P.A. 11523 of 2022 dated 30.06.2022 is duly noted.

(2) Acceptance of project proposals from the project proponents engaging the Environmental Consultant Organizations which are listed as 'ACOs' cases sub judice NABET accreditation.

As per the letter vide No. QCI/NABET/ENV/SEIAA/22/2416 dated 07.07.2022 from National Accreditation Board for Education and Training (NABET), it is found that some of the Environmental Consultant Organizations either do not have NABET Accreditation or their cases for accreditation are sub-judice in different courts of law. However, they have been allowed to act as consultants in view of stay orders given by the Hon'ble Calcutta High Court in the past. Recently the Hon'ble Supreme Court of India has ruled that a stay granted by any court in the country automatically expires in six months unless extended.

Accordingly, an opinion from the Law Cell of the Env. Dept. was obtained. It was opined that '*Hon'ble High Court at Calcutta vide its order dated 14.05.2015 disposed of the case stating in an identical case Gujarat High Court vide its order dated 24.01.2013 imposed a stay on the operation of the impugned. As per status shown in the Gujarat High Court website, it is still pending. Meanwhile, Hon'ble Supreme Court in its order dated 15.10.2020 passed in connection with criminal appeal no. 1375 of 2013 ordered "whatever stay has been granted by any court including the High Court automatically expires within a period of six months and unless exemption is granted for good reason". Under such circumstances, in light of direction of Hon'ble Supreme Court, the stay granted by Gujarat High Court should expire long ago*'. Accordingly, based on the legal opinion obtained from the Env. Dept., SEIAA in its 15th meeting held on 29.01.2021 decided that henceforth environmental consultant without NABET accreditation shall not be allowed to act as consultant for any project being submitted for EC.

It is also observed that in the portal of NABET vide http://eia.nabet.qci.org.in/ACOs_Case_Sub_Judice.aspx as accessed on 10.08.2022, a list of Environmental Consultant Organizations (ECO) is mentioned as 'ACOs cases sub-judice'. As per EIA Notification, 2006 as amended from time to time, only NABET accredited ACOs are eligible to prepare / submit EIA – EMP reports. However, there are some applications where the ACOs names are not found in the NABET portal as accredited consultants. These consultants make an appeal to SEIAA to consider their cases which are listed as 'ACOs cases sub-judice'. Though a decision was taken on 29.01.2021, similar cases are still being received by SEIAA. SEIAA needs clarification from MoEF&CC and NABET regarding dealing with such ACOs which are shown sub-judice in the NABET website.

MS, SEIAA vide his letter no. 1206/EN/T-II-1/077/2012(Part-I) dated 27.06.2022 (copy enclosed) had requested the MoEF&CC for a clarification in the matter regarding acceptability of ACOs which are shown as sub-judice in the NABET website. Further to this MS, SEIAA vide his letter no. 1316/EN/T-II-1/077/2012(Part-I) dated 11.07.2022 had requested the directives from MoEF&CC on this subject in view of the order of Hon'ble Calcutta High Court dated 30.06.2022 in W.P.A. No. 11523 of 2022 wherein the decision taken by SEIAA, WB regarding non-acceptance of the environmental consultant organizations without having NABET accreditation was quashed.

MS, SEIAA is once again requested to obtain clarification from MoEF&CC in the matter <u>urgently</u> in order to avoid further legal complications.

(3) Discussion on draft DSRs of Dakshin Dinajpur and Alipurduar.

The DSRs of Dakshin Dinajpur and Alipurduar are approved.

(4) ToR application for the proposed Modification of "Aerotropolis Township" at Andal, Vill. – Tamla, Dhokinkhanda, Mahira, Khandra, Amloka, Banguli, Durgapur Taluk, District: Paschim Bardhhaman, West Bengal by **M/s. Bengal Aerotroplis project Limited. Proposal No. SIA/WB/MIS/80933/2022.**

Background
Earlier M/s. Bengal Aerotroplis project Limited had obtained EC from SEIAA, WB vide No. EN/2041/T-II-1/025/2009 dated 11.08.2011 for Greenfield Aerotropolis Township (Phase I) at Andal, Vill. – Tamla, Dhokinkhanda, Mahira, Khandra, Amloka, Banguli, Durgapur Taluk, District: Burdwan, West Bengal.

Now the PP has applied for modification of "Aerotropolis Township" at Andal, Vill. – Tamla, Dhokinkhanda, Mahira, Khandra, Amloka, Banguli, Durgapur Taluk, District: Paschim Bardhhaman, West Bengal.

Since the location of the proposed project area appears to be close to Durgapur Municipal Corporation area, which is declared as a 'Severely Polluted Area', the project proponent is requested to mention the exact distance of the project area from the municipal limits of Durgapur and also submit Google earth image showing the Lat-Long of the proposed project area along with the municipal limits of Durgapur.

(5) Order of Hon'ble NGT dated 22.07.2022 in O.A. No. 86/2022/EZ

DSRs of four districts (Murshidabad, Uttar Dinajpur, Dakshin Dinajpur and Alipurduar) have already been approved by SEIAA. Another five DSRs are in the final stages of approval.

In view of the directives issued by the Hon'ble NGT in O.A. referred above, MS, SEIAA may please inform the Dept. of Industry, Commerce & Enterprise, Mines Branch for compliance of the order.

In absence of approved DSRs, all application including this particular application for mining of minor minerals were delisted as per the directives of the MoEF&CC. This case falls in the district of Purba Bardhaman where the DSR is yet to be placed for approval. The project proponent is requested to relist his application in the PARIVESH portal once the DSR for the district is approved.

(6) Order of Hon'ble NGT dated 22.07.2022 in O.A. No. 85/2022/EZ

DSRs of four districts (Murshidabad, Uttar Dinajpur, Dakshin Dinajpur and Alipurduar) have already been approved by SEIAA. Another five DSRs are in the final stages of approval.

In view of the directives issued by the Hon'ble NGT in O.A. referred above, MS, SEIAA may please inform the Dept. of Industry, Commerce & Enterprise, Mines Branch for compliance of the order.

In absence of approved DSRs, all application including this particular application for mining of minor minerals were delisted as per the directives of the MoEF&CC. This case falls in the district of Purba Bardhaman where the DSR is yet to be placed for approval. The project proponent is requested to relist his application in the PARIVESH portal once the DSR for the district is approved.

(7) Order of Hon'ble NGT dated 22.07.2022 in O.A. No. 87/2022/EZ

The order of Hon'ble NGT in the aforesaid case is noted.