

DISTRICT SURVEY REPORT FOR SAND MINING OF KODERMA DISTRICT, JHARKHAND

(As per Notification No. S.O.3611 (E) dated 25th July 2018,
Sustainable Sand Mining Management Guidelines, 2016 and
Enforcement & Monitoring Guidelines for Sand Mining (EMGSM)
January 2020, issued by Ministry of Environment, Forest and Climate
Change)

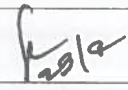
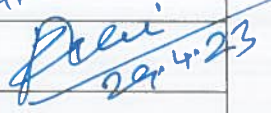
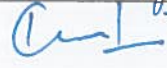
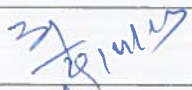
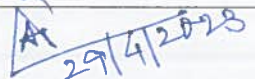


Prepared by

M/S RIAN ENVIRO PRIVATE LIMITED
202 & 402, Mangal Market, Raja Bazar, Sheikhpura,
Patna, Bihar, Pin code-800014
Reg. address: 133, Ansal Chamber-II, 6 Bhikaji Cama Place,
New Delhi- 110 066
(QCI NABET Accreditation No. - NABET/EIA/2124/IA 0079)
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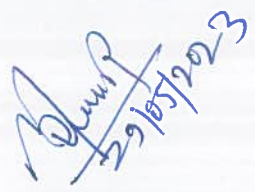


The Deputy Commissioner through letter 1763/M, Koderma, dated 19.11.2022 had constituted a Sub-Divisional Committee to verified the District Survey Report prepared by Environmental Consultant. List of the members of the Sub-Divisional Committee is as follows:

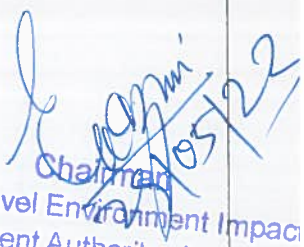
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I.	वन प्रमंडल पदाधिकारी, कोडरमा	
II.	अनुमंडल पदाधिकारी, कोडरमा	
III.	जिला खनन पदाधिकारी, कोडरमा	
IV.	सहायक निदेशक, भूतत्व, जिला भूतात्विक कार्यालय, कोडरमा	
V.	कार्यपालक अभियंता, लघु सिंचाई प्रमंडल, कोडरमा	
VI.	क्षेत्रीय पदाधिकारी, झारखण्ड राज्य प्रदूषण नियंत्रण पर्वद, हज़ारीबाग	




DEPUTY COMMISSIONER,
KODERMA

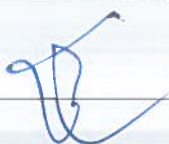

Member
State Level Environment Impact
Assessment Authority, Jharkhand


Member Secretary
State Level Environment
Impact Assessment Authority
Jharkhand


Chairman
State Level Environment Impact
Assessment Authority, Jharkhand

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1 Preface

The need for District Survey Report (DSR) has been necessitated by Ministry of Environment, Forest and Climate Change (MoEF & CC) vide their 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. Enforcement & 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.

District Survey Report of River Bed Sand Mining in the Koderma district is prepared under;

- ❖ MoEF & CC, GoI notification S.O. 141 (E) dated 15/01/2016
- ❖ Sustainable Sand Mining Guidelines, 2016
- ❖ Sand Policy of Govt. of Jharkhand, 2017
- ❖ MoEF & CC, GoI notification S.O. 3611 (E) dated 25/07/2018
- ❖ Enforcement and Monitoring Guidelines for Sand Mining 2020
- ❖ Jharkhand Minor Mineral Concession (Amendment) Rules 2020.

The DSR of Koderma District also describes the general geographical profile of the district, distribution of natural resources, livelihood, climatic condition and sources of revenue generation.



2 Introduction

The District Survey Report of Koderma 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. Identification and Quantification of Mineral Sand Resource and its optimal utilization.
2. To regulate the Sand Mining in the district Koderma, identification of site-specific end-use consumers and reduction in demand & supply gaps.
3. Use of information technology (IT) & latest scientific method of mining for surveillance of the sand mining at each step.
4. District Survey report shall enable Environmental Clearance for cluster of Sand Mines. It shall assist concern Department during post Environmental Clearance Monitoring.
5. To control the instance of illegal mining.
6. To control the flood in the area.
7. To maintain the livelihood of aquatic habitat.
8. To protect the incursion of ground water in the area. Limiting extraction of material in floodplains to an elevation above the water table generally disturbs more surface area than allowing extraction of material below the water table.
9. To keep accumulated data records viz. details of Mineral Resource, potential area, lease, approved mining plan, co-ordinates of a district at one place.
10. To maintain the records of revenue generation.
11. Excavating sand from a small straight channel with a narrow floodplain generally will have a greater impact on the natural

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hydrologic processes than excavations on a braided channel with a wide floodplain.

12. Extracting sand from a large river or stream will generally create less impact than extracting the same amount of material from a smaller river or stream.
13. A concise guide line can be framed considering the point discussed in the DSR for sand mining in the district.

The District Survey report (DSR) is comprised of comprises of primary field data as well as secondary data published and endorsed by various departments and websites about geology of the area, mineral resources, climate, topography, land form, forest, rivers, soil, agriculture, road, transportation, irrigation etc. Data on lease and mining activities in the district, revenue etc. is collected and collated from concern district Head Quarter.

The Deputy Commissioner through letter 1763/M, Koderma, dated 19.11.2022 had constituted a Sub-Divisional Committee to verified the District Survey Report prepared by Environmental Consultant. List of the members of the Sub-Divisional Committee is as follows:

- ❖ वन प्रमंडल पदाधिकारी, कोडरमा।
- ❖ अनुमंडल पदाधिकारी, कोडरमा।
- ❖ जिला खनन पदाधिकारी, कोडरमा।
- ❖ सहायक निदेशक, भूतत्व, जिला भूतात्विक कार्यालय, कोडरमा।
- ❖ कार्यपालक अभियंता, लघु सिंचाई प्रमंडल, कोडरमा।
- ❖ क्षेत्रीय पदाधिकारी, झारखण्ड राज्य प्रदूषण नियंत्रण पार्षद, हज़ारीबाग।

2.1 Statutory Framework:

a. Evolution of the Environmental Regulatory Framework:

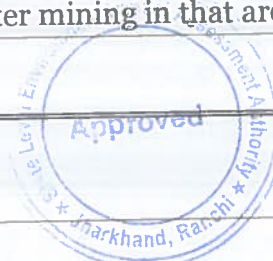
Requirement of District Survey Report & its year wise modification of Guidelines is furnished in Table No 2-1.

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

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Year	Particulars
	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.
2017	Jharkhand Minerals (Concession, Prevention of Illegal Mining, Transportation and Storage) Rules, 2017. The notification stated about the prevention of Illegal mining, transportation and storage of sand and guidelines for mining activity, safety barriers, mining depth and lease.
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".



Year	Particulars
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.

2.2 Methodology of DSR Preparation

The data related to district profile, geology, mineralization, and mining activity are sketchy and disjointed. There are multiple data sources, which are in the public domain, as well as in Government website. To prepare District Survey Report, need to collate all the available databases on these iron regards. A comprehensive and a meaningful interpretable database created, which would be necessary to demonstrate the district overview. Workflow for the DSR job is as follows.

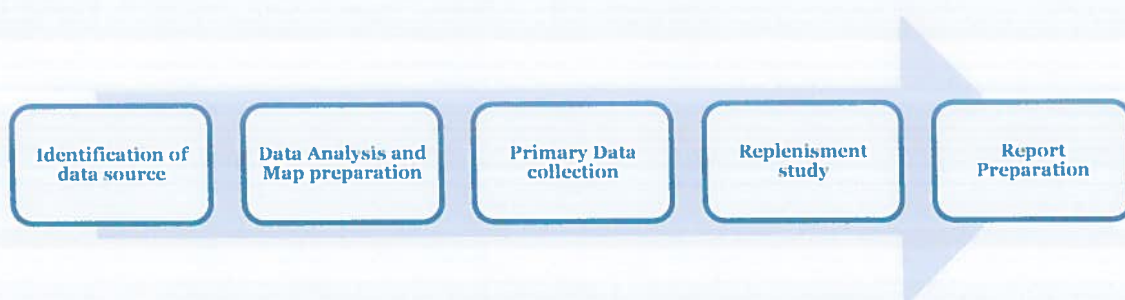


Figure No 2- 1: Steps followed in preparation of DSR ,

2.2.1 Data source Identification

District Survey Report has been prepared based on the Primary data base and secondary data base collected from different sources. The secondary data sources which are used in DSR are mostly Government published data based on the published report in reputed journal. District profile has been prepared based on the District Statistical handbook published by Jharkhand Government as well as District Census 2011. Mining lease details and the revenue generated from sand has been prepared based on available data

from DMO, Koderma. Satellite imagery as well as field data has been used for map preparation related to physiography and land utilization pattern of the district.

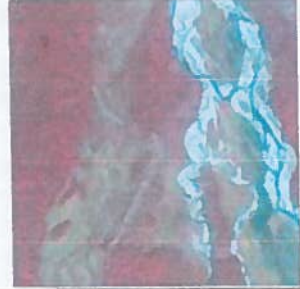
2.2.2 Data Analysis and Map preparation

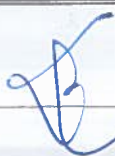
Dataset which are captured during the report preparation, are gone through detailed analysis work. District Survey Report involves the analytical implication of captured dataset to prepare relevant maps. Methodology adopted for preparation of relevant maps is explained below.

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 Composition) pre-processing, selection of suitable classification approaches, post-classification processing, and accuracy assessment.

Here LISS-III 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.

	
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 cyan with 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.



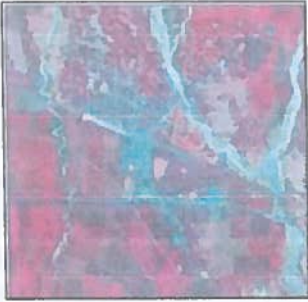
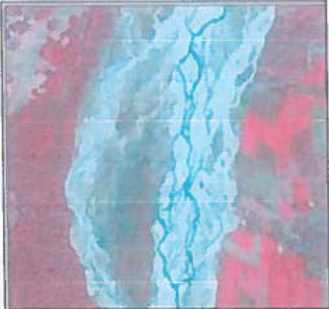

	
Settlement – Area with Cyan Colour including geometrical shape has been recognised as Settlement Area.	Water Bodies – Dark blue colour has been classified as Water Bodies.

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 Composition) 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.

	
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.

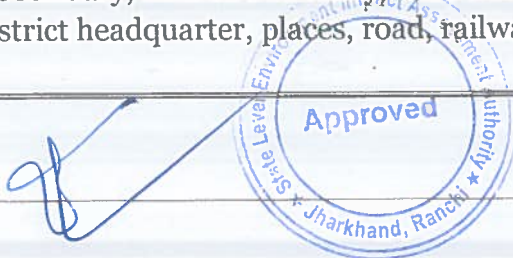
Figure No 2- 3: Pictorial description of Geomorphological Units Classification methods

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)**.
- Data has been geo-referenced using GIS software.
- Digitization of block boundary, district boundary, state 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)**.
- Data has been geo-referenced using GIS software.
- Digitization of block boundary, district boundary, state 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)**.
- Data has been geo-referenced using GIS software.
- Digitization of block boundary, district boundary, state 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.

Seismic Map:

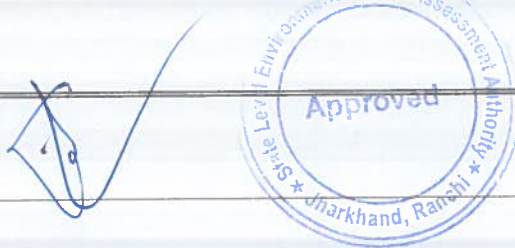
- Raw data collected from **Ministry of Earth Science**.
- Data has been geo-referenced using GIS software.
- Digitization of Earthquake zone and superimposed it over Block Boundary.
- Zone name has been filled in attribute table of the Layers
- Final layout has been prepared by giving scale, legend,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

Soil Map:

- Raw data collected from **National bureau of soil survey and land use planning**.
- 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**.
- Data has been geo-referenced using GIS software.
- Digitization of Wildlife Sanctuary & 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. The pre monsoon data provided by District Mining Office, Koderma is attached an **Annexure –K**.

2.2.4 Report Preparation:

District Survey Report has been prepared to fulfill the purpose of identification of potential mineralized zones with respect to Minor Mineral including River Sand (Other than Stowing Purpose), their mine ability and environmental impacts. Report provides details of the major and mineral potential zones. Assessing mining prospect with respect to minor minerals. Replenishment study details includes in the report. Report also provides the socio environmental study for establishing minor minerals in the district.

2.3 Demand and Supply 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.

The robustness of sand has played a significant role in everyday life. We use sand practically every other day.

Sand extraction from river beds 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 sand has increased manifold.

In the real world, there are a lot of situations where we can find uses/demand 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



District Survey Report, Sand Mineral
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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.

Sand extracted from Koderma district is used extensively in construction works ranging from individuals to organized corporate and government sectors.

Table 2-1:- Details of Dispatch & Royalty

Year	Dispatch (in CFT)	Royalty (in Rs)
2019-20	259006.000	71000.000
2020-21	63150.000	6,29,983.00
2021-22	0	2,84,000.00
2022-23	0	71000.00



3 General Profile of the district

a) General Information

Koderma district spreads over an area of 1500 Sq.Km. It is the gateway district of Jharkhand. Koderma is known as Mica Capital of India. The Koderma district was carved out from Hazaribagh in April 1994. Koderma district lies in the northern part of the Jharkhand state and is bounded by the longitude 85°26'01" and 85°54'16" E and latitudes 24°15'46" and 24°40'18" N. Area is included in degree sheet 72H and survey of India toposheets (1:50,000 scale) no. 72H/6,7,10,11,13,14,15,16.

Koderma district is surrounded by North- Nawada district of Bihar State, South- Hazaribagh district, East- Giridih district, West- Gaya district of Bihar State. Koderma town is situated at 155 Km north of Ranchi on NH-31 and is well connected by Rail. Koderma Railway station is on grand chord railway line connecting Kolkatta and Delhi.

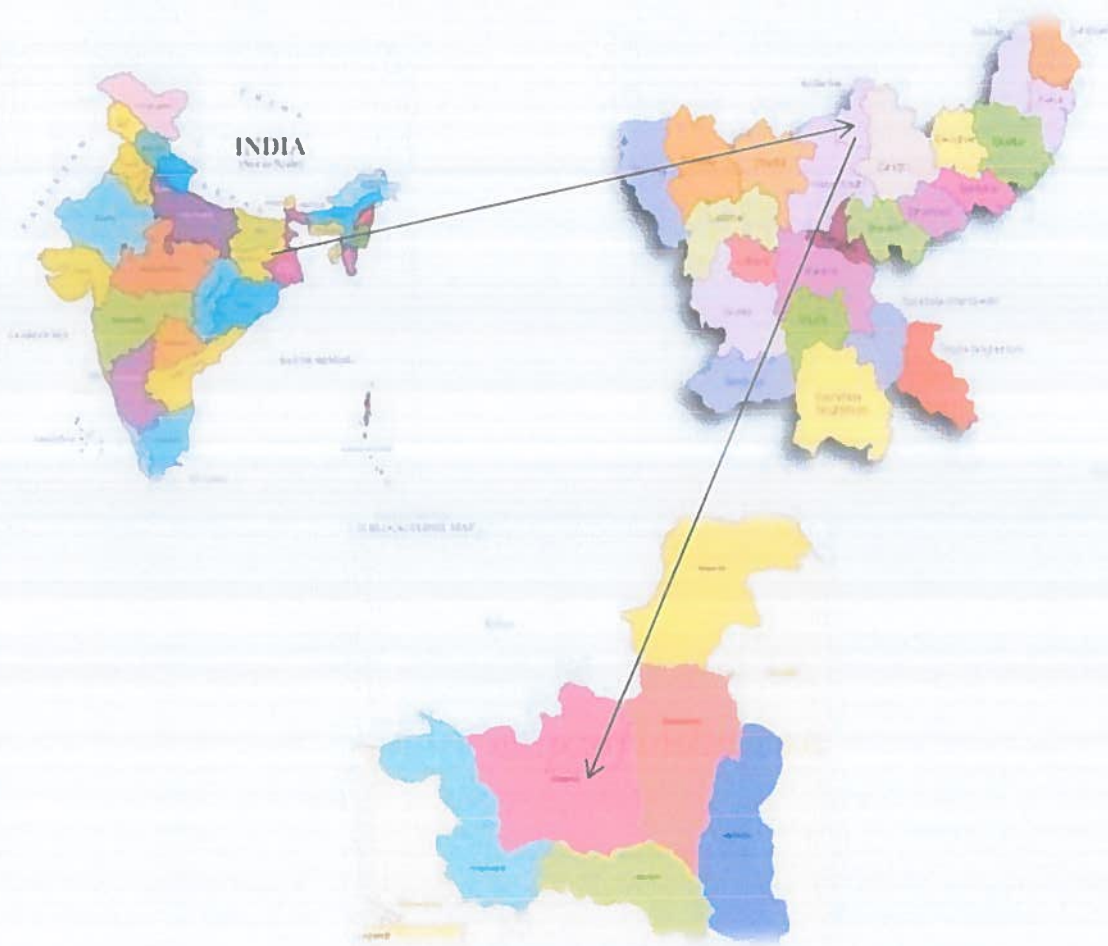
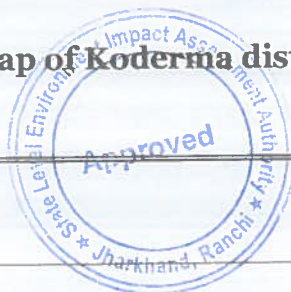


Figure 3-1: Location map of Koderma district, Jharkhand



b) Administrative Setup of District

Koderma sub-division was made from Hazaribagh district in 1973. Later on 10th April 1994, it made full –fledged district. Now, Koderma district have six blocks. Koderma, Jainagar, Markacho, Satgawan, Chandwara and Domchanch.

The Deputy Commissioner is the head of District administration. He also acts as the Collector in case of Revenue matters, as District Development Commissioner in case of District Developmental works, as District Magistrate in case of maintenance of Law and Order and General Administration, as District Election Officer in case of conduct of Election. He is assisted by Sub Divisional Magistrate heading a sub division.

Administrative Setup of Koderma Includes:

- Collectorate
- Subdivision
- Blocks
- Panchayats

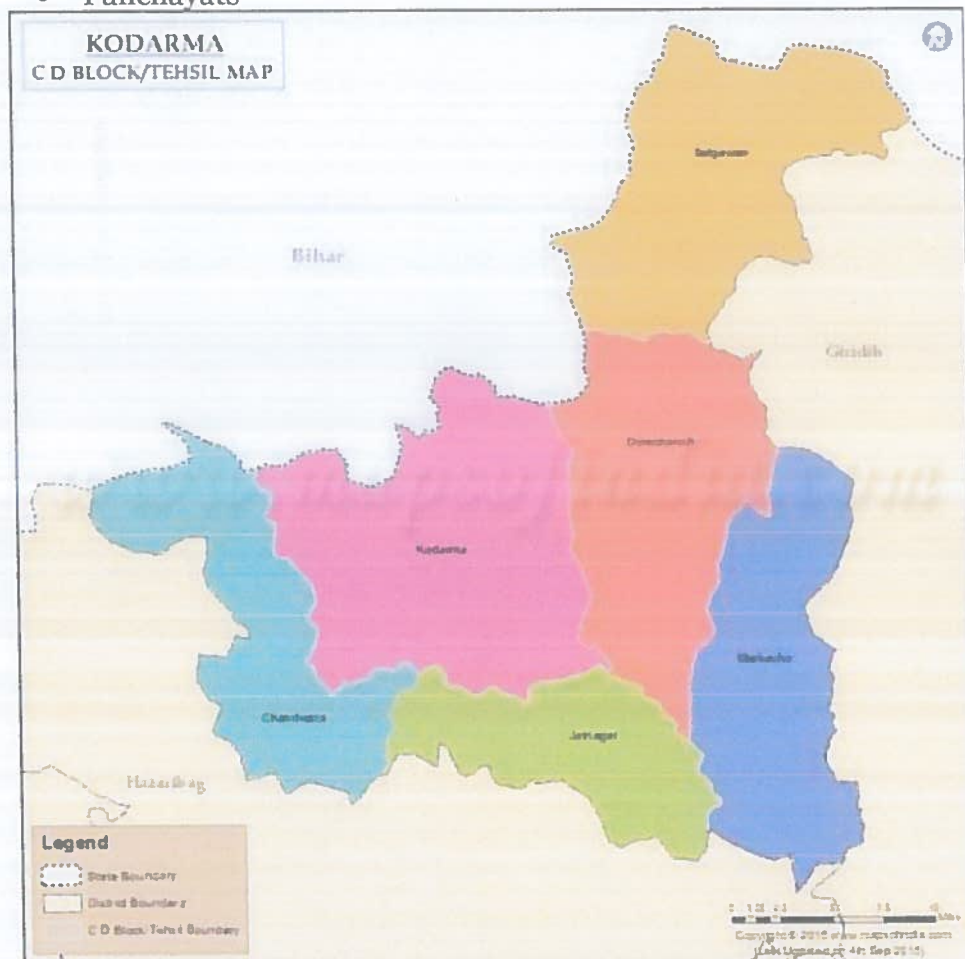


Figure 3-2: Block map of Koderma District, Jharkhand

(Source: <https://www.jharkhand.gov.in/Home/DistrictProfile>)

Detail of Blocks of Koderma District is furnished in Table No.3-1.

Table No.-3- 1: Details of Block of Koderma District

Sl. No.	Tehsil Name	Area in sq.km.
1	Satgawan	486
2	Koderma	548
3	Markacho	419
4	Jainagar	253
5	Chandwara	408
6	Domchanch	427

c) Climate Condition

There are three main seasons in the district of Koderma. The winter season starts from November to February. The summer season is from March to May and the rainy season is from June to October. In winter early mornings and nights are cold. Night temperature falls down to 5°C or even lower. To the contrast summer is hot and unpleasant, the temperature rising up to 44° C. The annual average rainfall is 1126 mm. Koderma region receives more rainfall and it gradually decrease in east direction.

Having humid and sub humid tropical monsoon type of climate characterize the climatic zone of Koderma. In normal year 40-60 mm of rain is received as pre monsoon shower that help farmer to start land preparation. About 80% of the rain is received during mid-June to first week of October. Further, 100 mm of rain is received during October and November. Winter rain during December to February is very helpful for Rabi cultivation.

The temperature of the district varies between mean minimum temperatures of 10° C in winters and mean maximum temp. of 40° C in summer. Temperature varies between 4°c to 46° c in general.

The average rainfall in the district is 871.182 mm. Monthly average rainfall of the district is given below in Table No.3-2.

Table No.-3- 2: Details of rainfall data of five years (from 2016 to 2020)

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	10.3	-51	0	-100	4.1	-69	0	-100	33.7	18	81.3	-53
2017	0.9	-96	0	-100	3.5	-73	2.2	-78	4.9	-83	21.4	-88
2018	0	-100	0	-100	0	-100	16.3	63	40.3	41	48.8	-72
2019	0	-100	35.9	218	0.7	-93	9.9	-18	0	-100	43	-76
2020	13.3	-17	8.7	-23	74	625	27.2	125	58.1	57	185.2	4
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	249.2	-8	305.2	14	311.1	43	26.9	-69	0	-100	0	-100
2017	472.7	75	199	-26	101.4	-53	44.7	-48	0	-100	0	-100
2018	167.3	-38	150.5	-44	114.3	-48	13.6	-84	0	-100	8.2	12
2019	307.7	22	193.3	-15	356.9	63	71.7	-23	0	-100	16.3	88
2020	310.2	23	196.8	-14	199.2	-9	77.6	-16	1.2	-84	0.1	-99

(Source: <https://hydro.imd.gov.in>)



d) Demography

In 2011, Koderma had population of 716,259 of which male and female were 367,222 and 349,037 respectively. In 2001 census, Koderma had a population of 499,403 of which males were 249,549 and remaining 249,854 were females. Koderma has a sex ratio of 949 females for every 1000 males, and a literacy rate of 68.35%. Out of which the rural population is 4.12 lac which is 82.73% of total population. The population density is 287 Persons/Sq.km.

Cropping pattern

Due to lateritic condition of the soil, deficiency in the rainfall and no major rivers, the land use pattern is different from the gangetic plain. Some irrigated area takes into account of Rabi, Kharif and oilseeds crops. In agriculture, major crops are Paddy and Maize in Kharif and Wheat and Gram in Rabi season with minor extents in other oil seed and pulse crops. But, generally the area is best suited for vegetables, medicinal plants and floriculture due to natural drainage of water.

e) Topography & Terrain

Koderma district is the part of Chotanagpur plateau. The area exhibits undulating topography comprising hills, hillocks, mounds and plains. Valley fills with low to moderate frequency of lineaments, pediplains with moderate frequency of lineaments and pediplains are major geomorphological units of the district. Northern part of the district is occupied by Koderma Reserve forest. The highest peak is Debour Ghati (677 meter) that is the state boundary of Jharkhand and Bihar. Koderma block consists monthly of directed plateau (Hills / Valley). Upper part of Chandwara block consists of dissected plateau and lowest part by pediplain. Satgawan block is covered by pediplain in upper parts, ridges and valley in middle parts and erosional valley in lower parts.



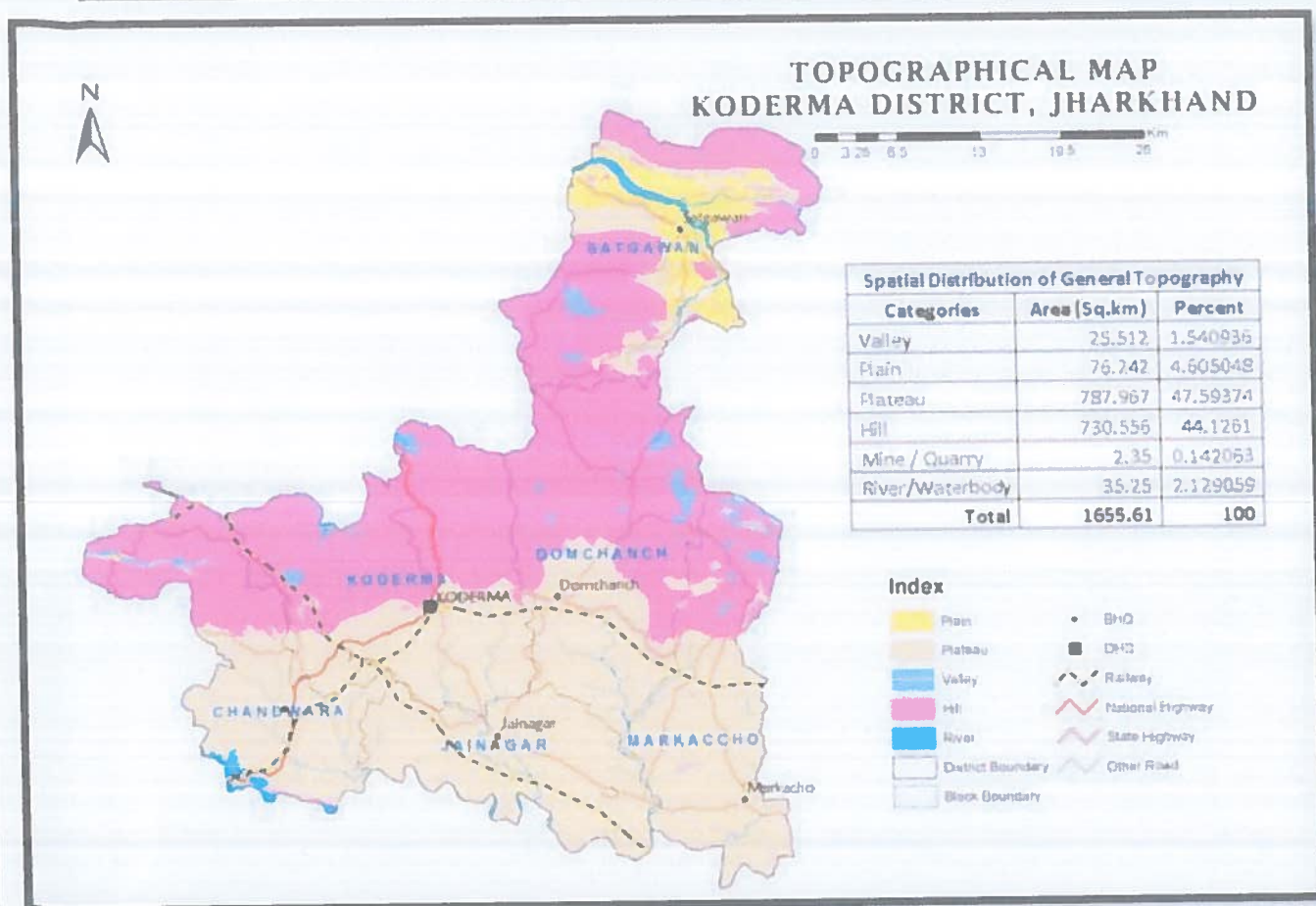


Figure 3-3: Topographical Map Koderma District

(Source: https://jsac.jharkhand.gov.in/district_profile/Koderma.pdf)

f) Hydrogeology

Ground water occurs under phreatic condition in weathered Granitic formation and under semi-confined to confined condition in fractured Granite-Gneiss.

i) Ground Water in Aquifer-I (Weathered Granite-Gneiss/Alluvium):

Ground water occurs under phreatic/ unconfined to semi-confined conditions in Aquifer-I which is represented by weathered granite-gneiss and Alluvium. Ground water occurs in unconfined state in shallow Aquifer-I tapped by alluvium, laterites, and weathered granite (up to 30 m depth), however in some cases depth varies from more than 30m. Yield of the wells in Aquifer-I ranges from 0.8 to 3 lps in this formation. Weathered zones of granites and gneisses are the most productive zone for ground water development in shallow aquifer. The depth of weathering varies from place to place, which influences the aquifer characteristics.

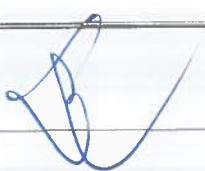
ii) Ground Water in Aquifer-II (Fractured Granite-Gneiss):

Ground water occurs under Semi-confined to confined condition in Aquifer-II represented by Fractured/Jointed granite-gneiss, upto the explored depth of 200 mtr depth. Generally, extent of Aquifer-II in Precambrian formation ranges from 30-140m. Granites and Gneisses are the most predominant rock types among all other rocks falling under the consolidated unit. Tectonic disturbances in granitic rocks are pronounced and fissures and joints etc. are also well developed. These rocks are traversed by numerous veins of quartz and pegmatite. Fracture porosity plays an important role but with varying degree, in different parts of the area depending upon the pattern and intensity of joints and fractures. The potentiality and yielding property of these aquifers vary considerably. Bore wells can be constructed tapping the deep-seated fractures and joints.

iii) Potential Fractures in Aquifer-II:

Total 21 Number of boreholes has been constructed by CGWB (in-house/outsourcing) in the district under groundwater exploration programme upto maximum depth of 200 m. On the basis of field investigations and results of exploratory wells drilled in the district, salient findings are summarized as: -

- Overall in the district the major potential fractures zones are found upto 120m.
- In general, in fractured/jointed/fissured formations, discharge of well has been
- found in the range of 1-16 m³/hr.
- High yielding wells having potential fractures encountered at J.J.College Koderma-13.2 m³/hr, Gulwadhab-12.6 m³/hr., Khargadih-16.2 m³/hr.)



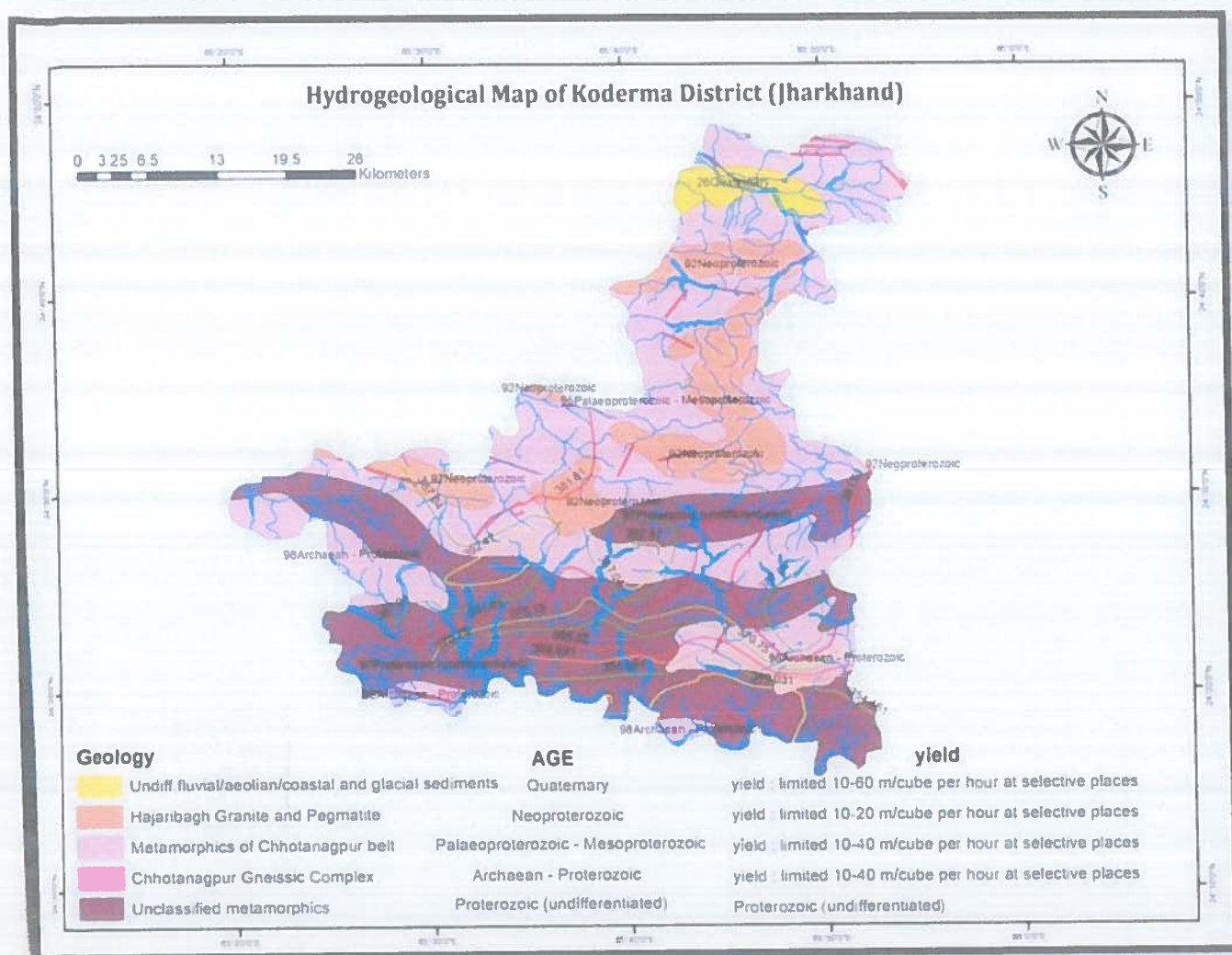


Figure 3-4: Hydrogeological map of Koderma district

(Source: http://cgwb.gov.in/AQM/NAQUIM_REPORT/Jharkhand/KODERMA%20JHARKHAND.pdf)

iv) Water Level Scenario – Aquifer – I (Shallow Aquifer): Ground water regime is monitored through 18 dug wells in the study area. With the field data, maps were prepared for visual interpretation of the behavior of the ground water levels. Depths to ground water level were demarcated into various zones in the ranges of less than 2 m, 2-5 m, 5-10 m, 10-20 m.

v) Depth to Water level May 2019: Depth to ground water level during May 2019 ranges from 5.05 mbgl to 12.50 mbgl. Minimum depth to water level 5.05 mbgl recorded at Kanobigha in Koderma district and maximum depth to water level 12.50 mbgl recorded at Domchanch block in Koderma district.

vi) Depth to Water level November 2019: During month of November 2019 (post-monsoon) depth to water level varied from 1.22 m bgl to 12.00 m bgl. Minimum depth to water level 1.22 mbgl recorded at Chandwara block of Koderma district and maximum depth to water level 12.00 mbgl recorded at Koderma block of Koderma district.



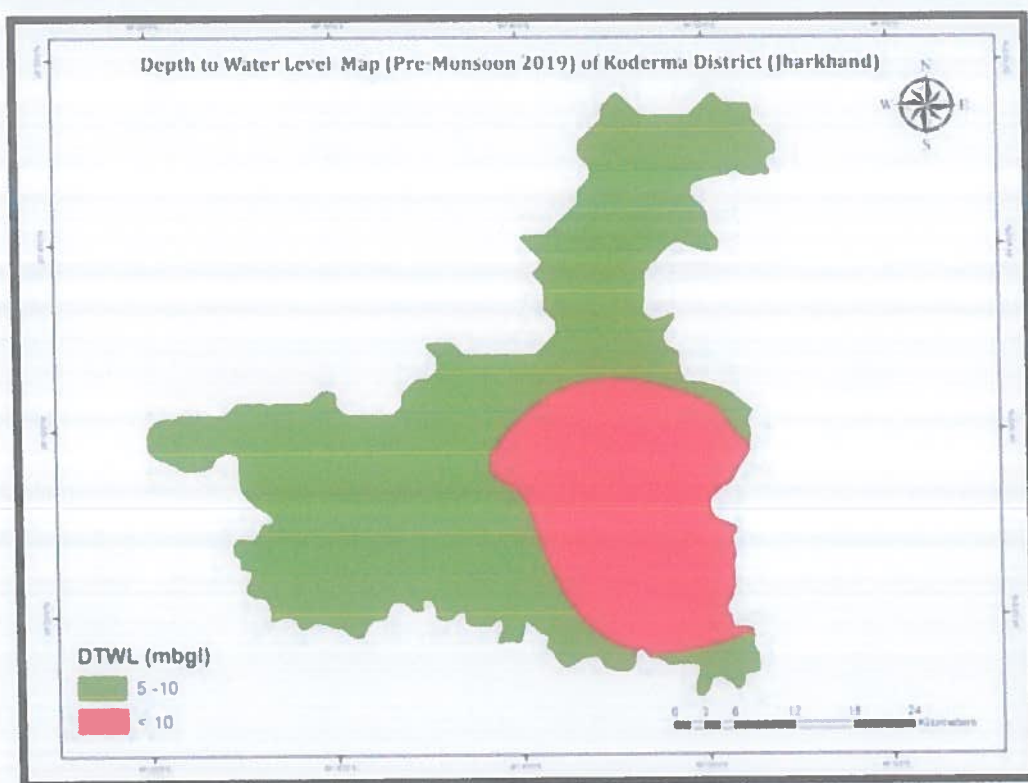


Figure 3-5: Depth to water level Map (pre-Monsson-2019)

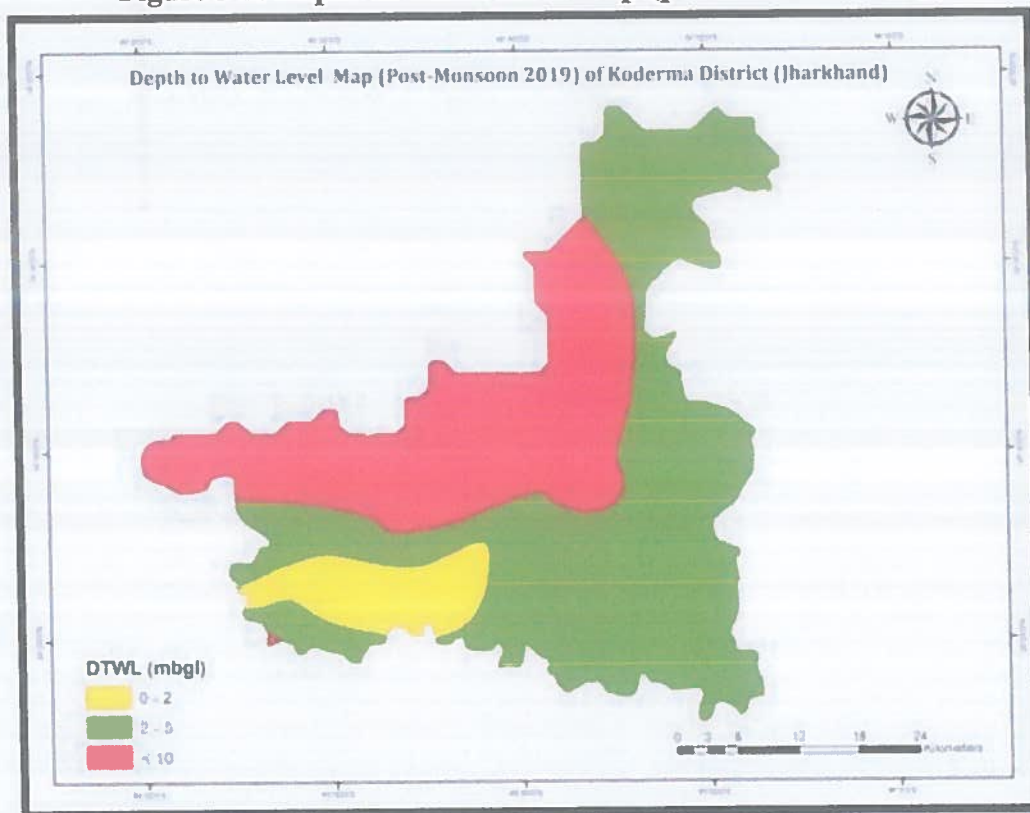


Figure 3-6: Depth to water level Map (post-Monsoon-2019)

(Source: http://cgwb.gov.in/AQM/NAQUIM_REPORT/Jharkhand/KODERMA%20JHARKHAND.pdf)

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g) Ground Water Development:

Archean and Pre- Cambrian rocks: Ground water mostly occurs under water table condition in weathered residuum and semi-confirmed condition in deeper fractures. Maximum thickness of weathered mantle is attained in Granitic rocks in favorable topographic and drainage condition. These formations have got yield prospect of approximately 2-20 cu.m/hr.

Lower Gondwana rocks: Gondwana rocks represent semi-consolidated formations, which are moderately thick but discontinuous. In the area where lower Gondwana sediments are exposed or underlain in relatively shallower depth, ground water occurs under water table condition in relatively deeper Gondwana aquifer occurs under semi confined to confined condition. They have yield prospect approximately 3-10 Cu m/hr.

Quaternary: Thin deposits of quaternary sediments occur along the river and nala courses. Thickness of these sediments vary from 2 to 10 m. Ground Water occur under unconfined conditions.

Table No.-3- 3:Stage of ground water development of Koderma District

Sl. No	Assessment Unit/ District	Total GW recharge (ha-m)	Net Annual Ground water Availability	Existing Gross Ground Water Draft for Irrigation	Existing Gross Ground water Draft for Domestic and Industrial Water Supply	Existing Gross Ground Water Draft For all Uses	Allocation for Domestic and Industrial Requirement supply (ha-m)	Net Ground Water Availability for future irrigation development	Stage of Ground Water Development (%)
1	Jainagar	1251.07	1188.51	273.46	188.86	462.32	256.6	629.45	38.90
2	Koderma	2965.23	2817.06	383.24	280.15	663.39	423.67	2010.15	23.55
3	Markacho	1606.78	1526.45	281.16	161.28	442.44	243.90	1001.38	28.99
4	Satgawan	1751.98	1664.38	197.78	87.91	285.69	132.95	1333.66	17.17
5	Chandwara	1698.23	1613.37	272.25	131	403.11	192.42	1145.69	12.49
	Total	9273.29	8809.77	1407.89	849.214	2256.96	1278.54	6120.33	19.82

Source: (CGWB, Koderma)

Ground Water Quality: The quality of water plays prominent role in promoting both the standards of agriculture production and human health. To evaluate the quality of ground water, samples have been collected from 18 monitoring wells which represent the quality of phreatic/ shallow zone i.e Aquifer I. The ground water samples were analyzed for major chemical constituents by using standard procedure at chemical laboratory in CGWB, MER, Patna. These samples have been considered to assess the chemical quality of ground water and its suitability for drinking and irrigational purposes.



h) Drainage System

Mainly Barakar, Sakri River and their tributaries drain the district of Koderma. The flow of Barakar is from west to east and in the southern part of the district. The river Ponchkhara, Keso, Akto, Guro and Gukhana nadi flow from west to east and are the tributaries of Barakar river. Sakri River is the main river of northern part of the district that flows from Southeast to northwest part of the district. Ghagra and Chhotanari nadi are the tributaries of Sakri river.

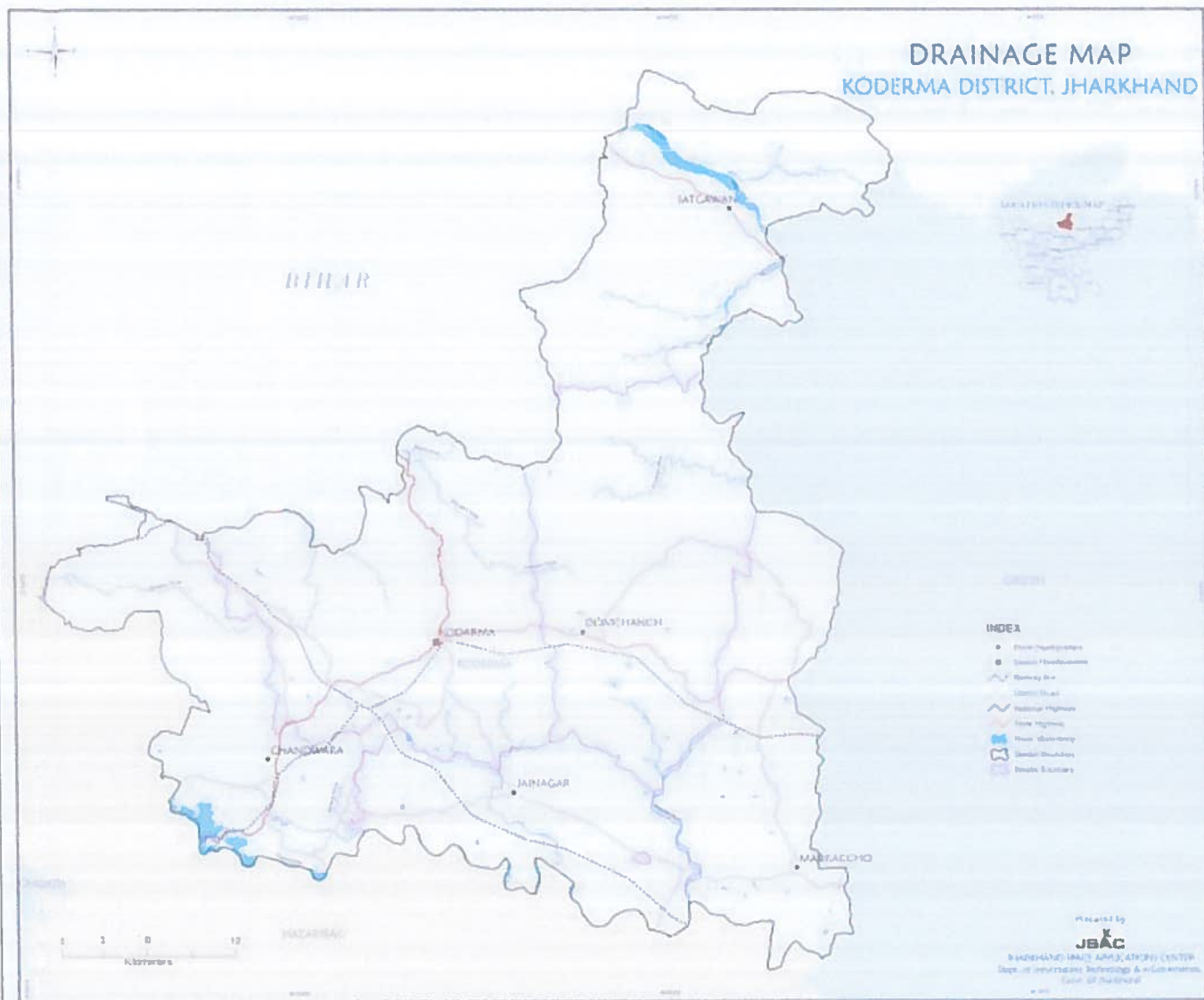


Figure 3-7: Drainage map of Koderma district
(Source: JSAC)



Table No.-3- 4: Details of major rivers of Koderma District

Sl. No.	River	Area drained (Sq. km)	% Area drained in the District	Total Length in the District (Km)	Place of Origin
1	Tilaiya	48.65	2.997	14.24	
2	Barakar River	51.92	3.199	72.85	Hazaribag Forest(Padma)
3	Dhadhar River	1.04	0.064	18.29	Madhuban (Giriak, Nalanda)
4	Pipradah River	1.48	0.091	26.48	-
5	Phutahiv Nala	0.88	0.054	26.59	-
6	Rajwa River	0.11	0.007	4.53	-
7	Chhotnar Nala	2.30	0.142	25.78	-
8	Sakri River	8.44	0.520	26.03	Sandohro

• **Floods in district Koderma:**

The Barakar River flows in the southern part of the district and supports the multi-purpose Tilaiya Dam. Poanchkhara, Keso, Akto, Gauri, Gukhana Nadi are the main tributaries of the Barakar in the district. The Sakri river is the main river in the northern part of the district. Ghagra nadi, Chhotanari nadi and Tamoriya are the tributaries of Sakri river. The Barakar River is the main tributary of the Damodar River.

Distribution of the vulnerable and less vulnerable flood prone districts are shown in the below figure no. 3.5.



Map 1.1: Multi hazard prone Area in Jharkhand

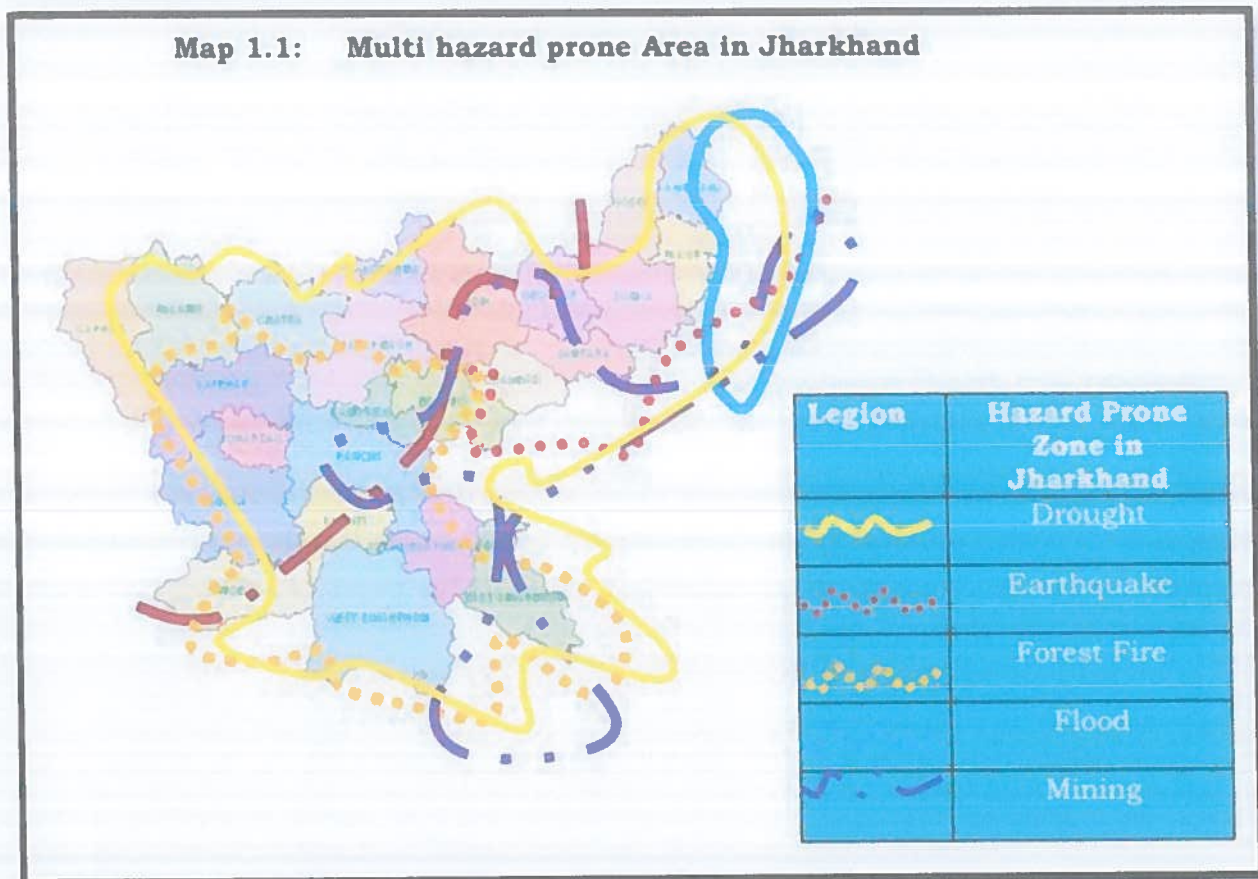


Figure 3-8: Multi hazard prone area in Jharkhand

(Source: <https://selfstudy365.com/qa/how-many-districts-of-jharkhand-come-under-the-earthquake-hazard-zone-fiedabao>)

From the above information, it is being observed that, Koderma is Non- flood prone district of Jharkhand.

i) Seismicity

As per Seismicity Zonation map, 3 types of Zones have been observed in Jharkhand. Koderma comes under India's seismic zone-III.



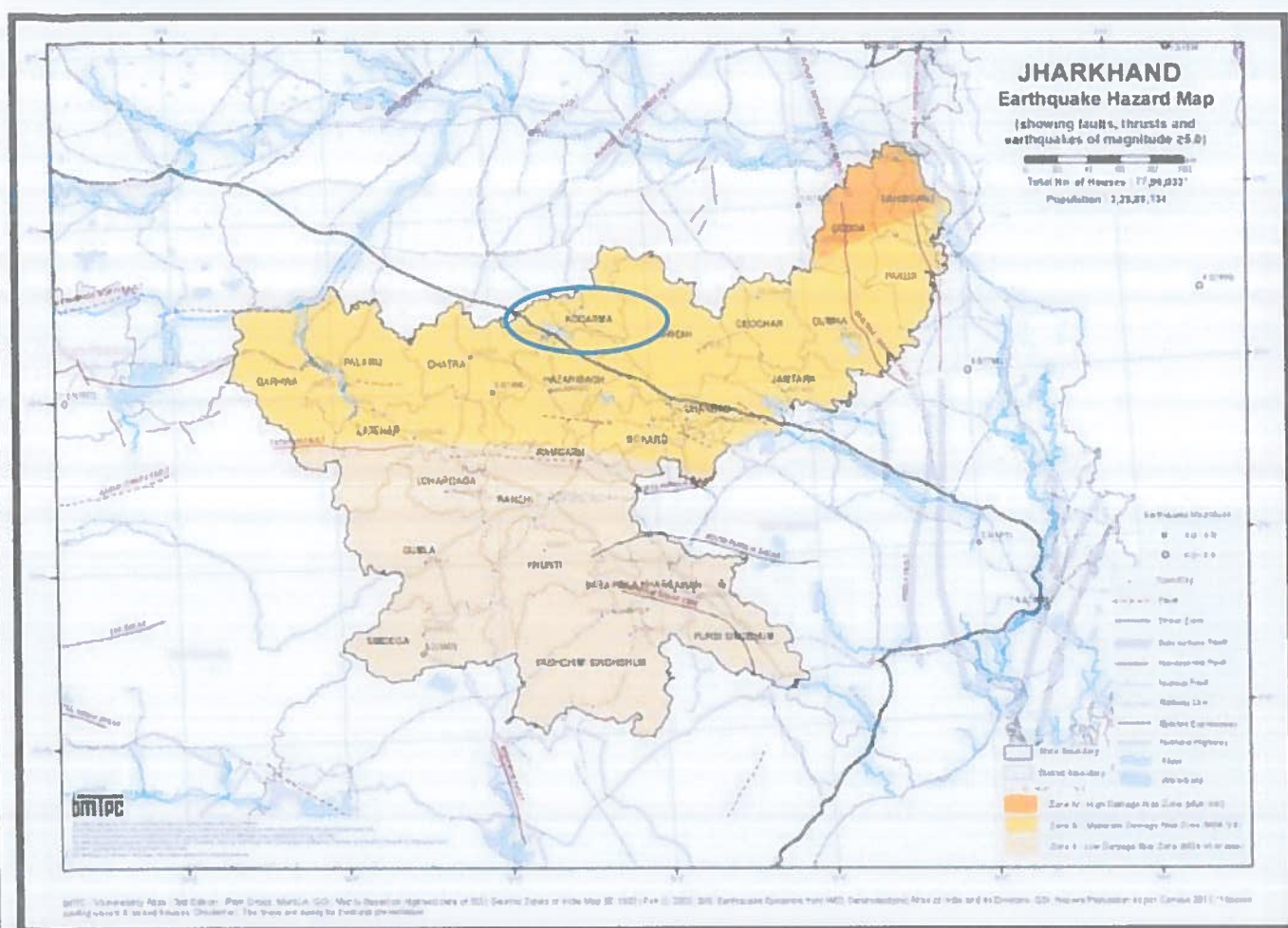


Figure 3-9: Jharkhand Earthquake Map
(Source: <https://bmtpc.org/DataFiles/CMS/file/VAI2019/eq-jh.html>)

j) Flora

The total forest area of Koderma district is 64796.90 hectare is scattered in 309 forest villages as protected forest under administrative control of Koderma Forest Division together with 15062.77 hectare scattered in 35 forest villages as a reserved forest. The principal trees in the forests are Sal, Bija, Gamhar, Khair, Palash, Salai, Semal, Bair, Arjun, Karam, Siris, Kaj, Kend, Mahulan, Mahua, Karanj, Ratti etc.

k) Fauna

Koderma wildlife sanctuary comprises of hilly ranges of dry deciduous forests and has plenty of rivulets. The wild life includes tiger, leopard, sloth bear, sambhar, cheetal, barking deer, nilgai, wild boar, giant squirrel, jackal, fox, hyaena, langur, porcupine etc. besides a variety of bird and reptile species.
A map showing Wildlife Protect areas in Koderma District is given below:

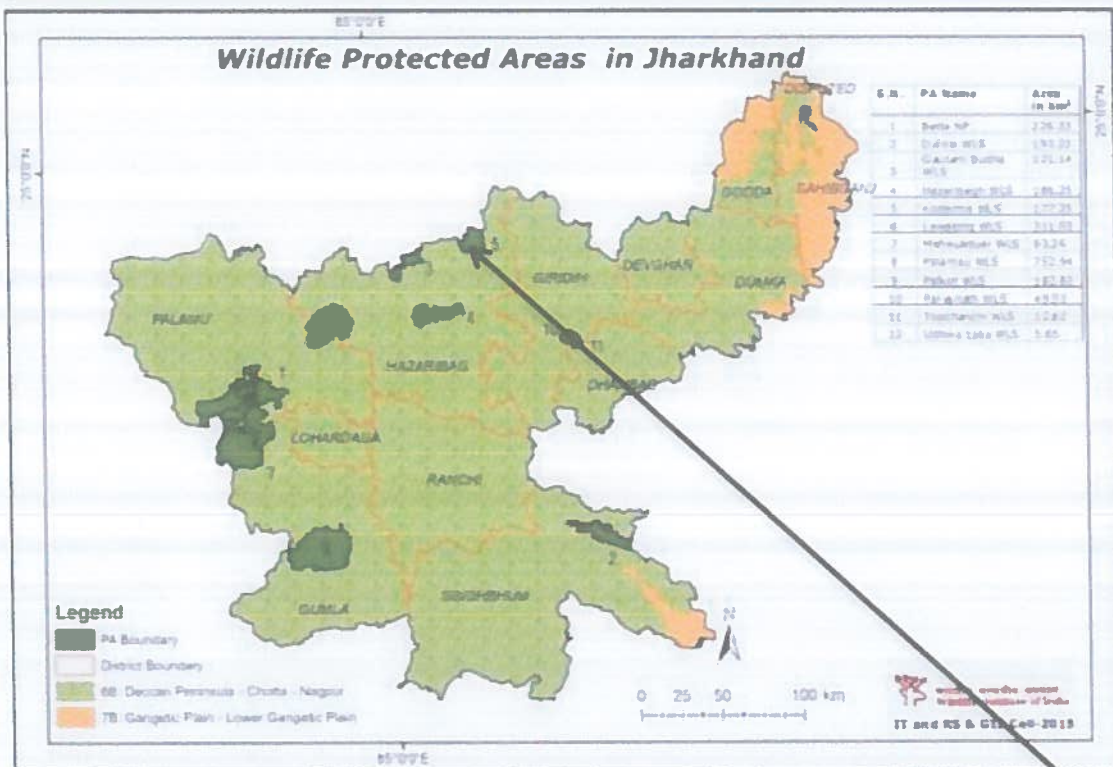


Figure 3-10: Wildlife Protected area in Jharkhand District
 (Source: http://wiienvs.nic.in/Database/Maps_PAs_1267.aspx)

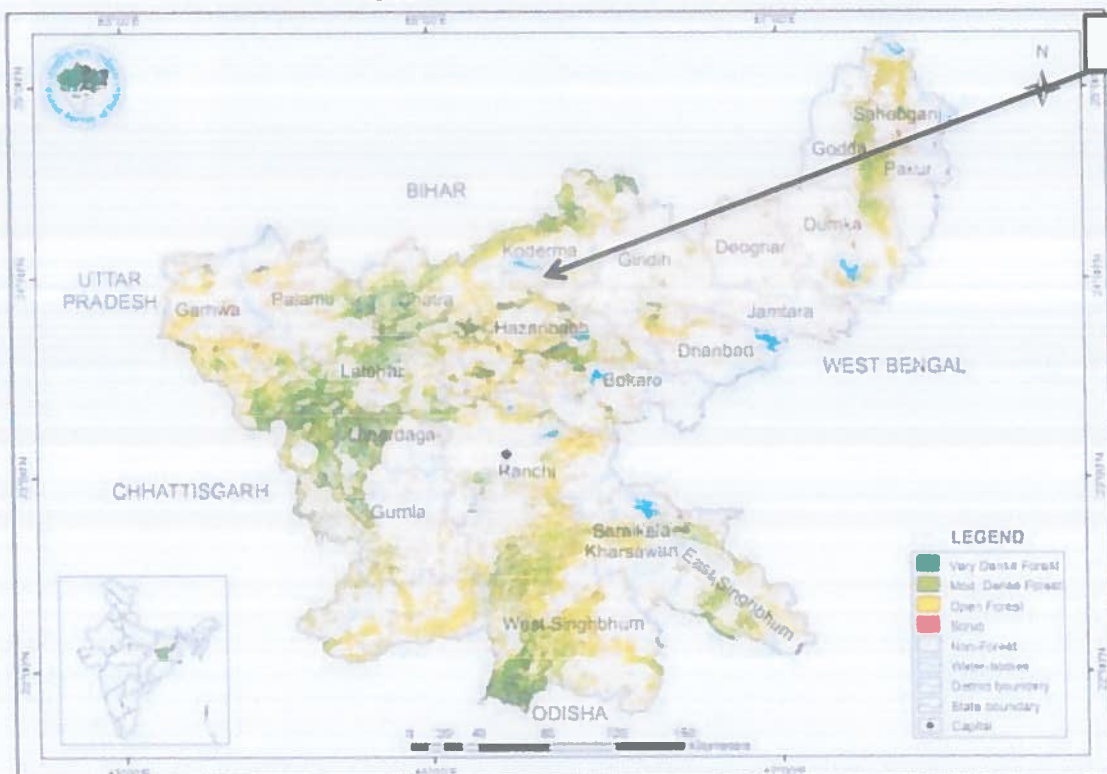


Figure 3-11: Forest Cover Map of Jharkhand
 (Source: https://forest.jharkhand.gov.in/Reports_2017/forestcovermap.aspx)

Koderma

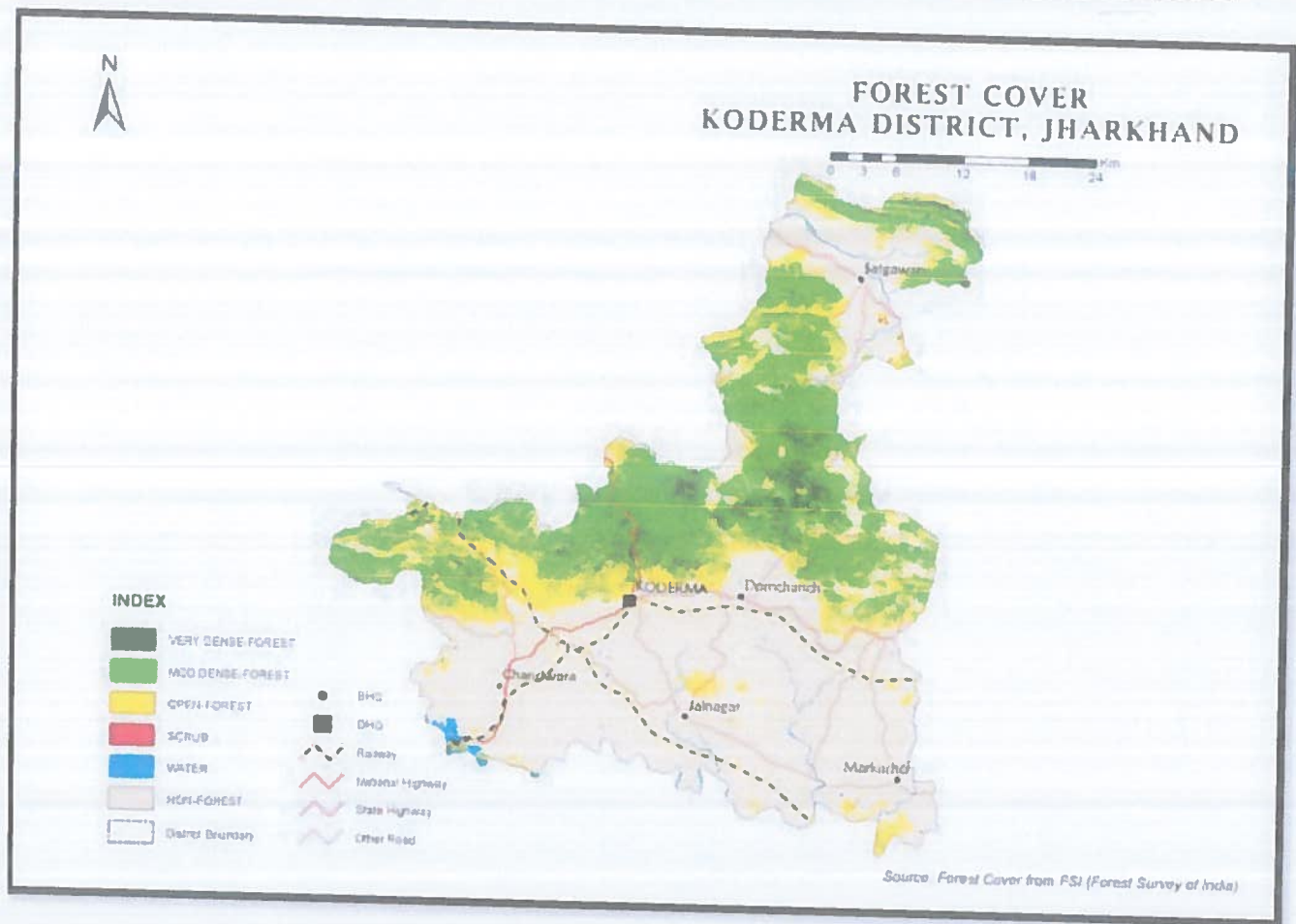


Figure 3-12:- Forest Cover Koderma District, Jharkhand
Source: - (https://jsac.jharkhand.gov.in/district_profile/Koderma.pdf)



4 Physiography of the district

a) General Landforms

Koderma district is the part of Chotanagpur plateau. The area exhibits undulating topography comprising hills, hillocks, mounds and plains. Valley fills with low to moderate frequency of lineaments, pediplains with moderate frequency of lineaments and pediplains are major geomorphological units of the district. Concentrations of lineaments are more in Chandwara, Koderma and Jainagar blocks and less in Satgawan and Markacho blocks of the district. Northern part of the district is occupied by Koderma Reserve forest. The highest peak is Debour Ghati (677 meter) that is the state boundary of Jharkhand and Bihar. Jainagar, Markacho blocks are covered by pediplain. Koderma block consists monthly of directed plateau (Hills / Valley). Upper part of Chandwara block consists of dissected plateau and lowest part by pediplain. Satgawan block is covered by pediplain in upper parts, ridges and valley in middle parts and erosional valley in lower parts.

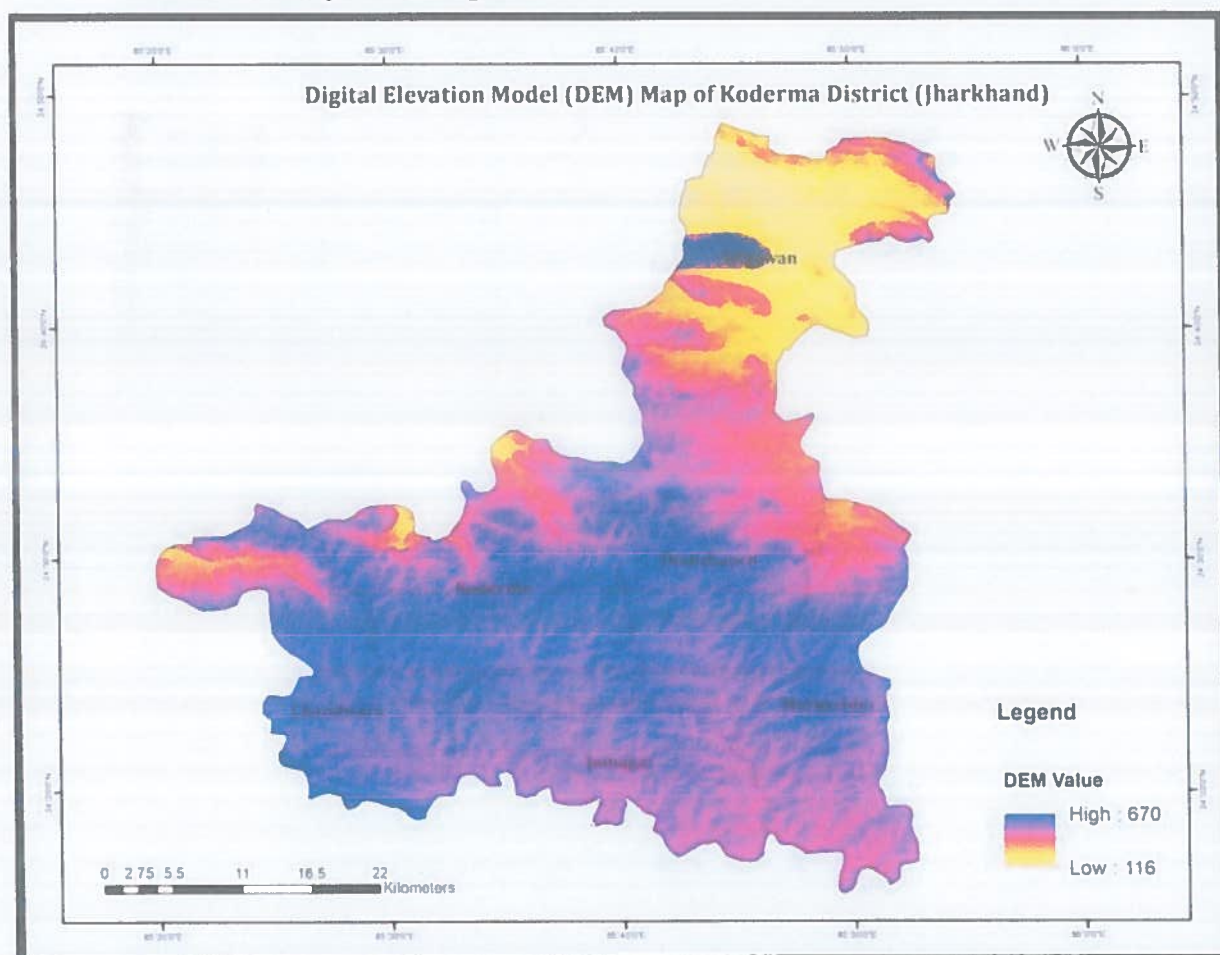


Figure 4-1: Physiography of Koderma District

(Source: http://cgwb.gov.in/AQM/NAQUIM_REPORT/Jharkhand/KODERMA%20JHARKHAND.pdf)

Approved

b) Soil and rock pattern

Four types of soil are mainly observed in the district:

- Reddish yellow, yellow, grayish and yellow deep catenary soil,
- Hill and forest soil of steep slopes and high-dissected regions
- Red yellow and light grey catenary soil and
- Pale yellow, Yellow and pinkish catenary soil on high micaceous schist.

The fertile land comprises of red and yellow soil with some amount of sand. But most of the terrains are rocky covered with pebbles. This acts as check on fertility of soil.

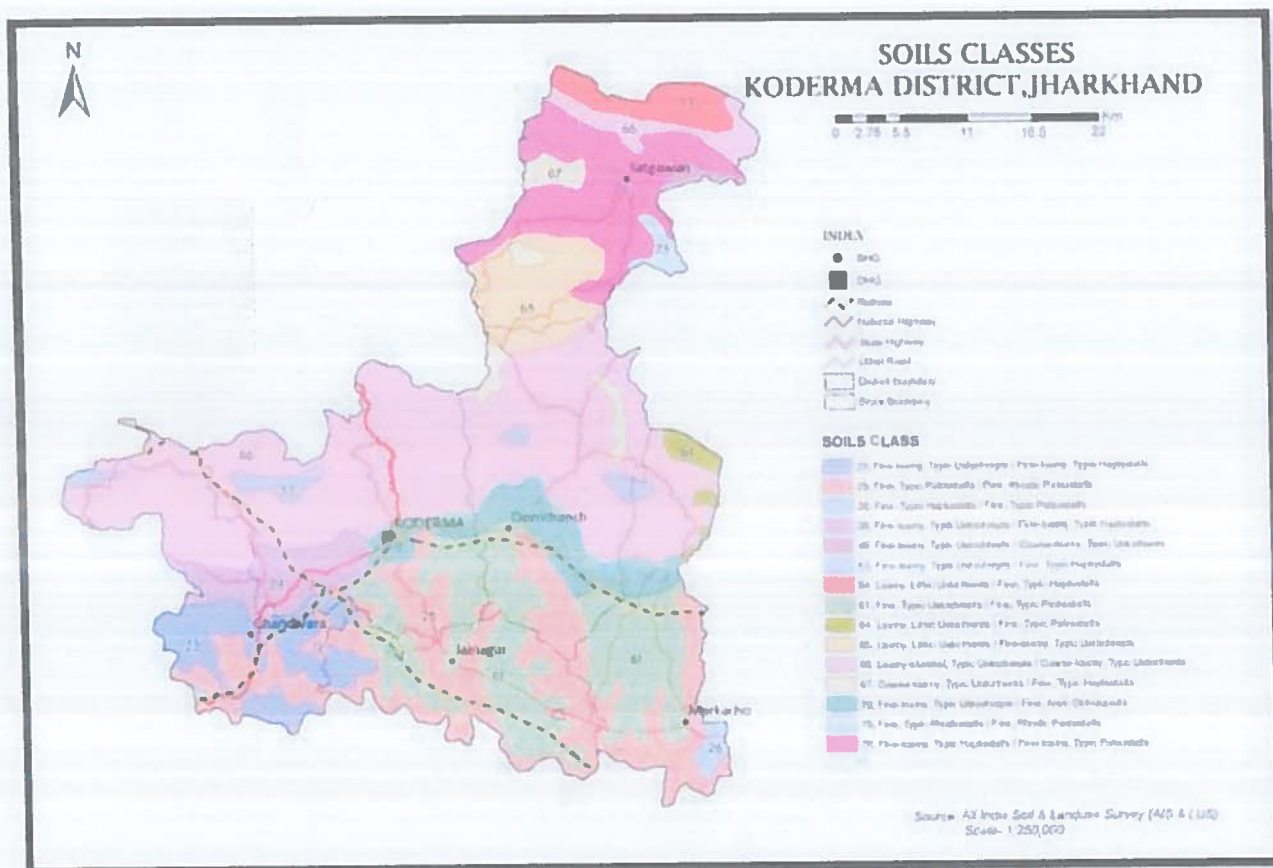


Figure 4-2:- Soil Map of Koderma district
(https://jsac.jharkhand.gov.in/district_profile/Koderma.pdf)



5 Land use pattern of the district

Land use is a function of four variables, land, water, air and man, each plays in its own role in composing its life history. The human circumstances are mainly responsible for dynamism in agriculture land use or changing cropland occupancy. Therefore, efficient cropland occupancy, say cropping pattern, implies the most successful use of agriculture land, consequent upon development of irrigation facilities and application of modern methods of farm technology. The key to the most important aspect of land use lies in the relation of population to land. Details of land use pattern is given below in **Table 5-1** and land use map is shown in **figure 5-1**.

Table 5-1: Details of Land use

Year	Reporti ng Area	Forest Area	Area under Non- agricultu ral use	Barren & uncultura ble land	Perman ent pastures & other grazing land	Land under misc. tree groves not includ ed in Net area sown	Cultura ble waste land	Fallow land other than Curren t fallow	Curren t fallow	Net area sown
2009- 10	389427. 94	190114. 88	22385.29	24435.32	5127.73	2409.5 5	7799.05	38549. 24	63755. 32	33224. 86
2010- 11	389427. 94	190114. 88	23612.63	22823.80	10983.50	3940.0 5	8489.43	32473. 72	45070. 76	42790. 07
2011- 12	389427. 94	190114. 88	23612.63	19157.14	10983.50	3940.0 5	8489.43	32473. 72	2399.6 4	87491. 02
2012- 13	389427. 94	190114. 88	23993.90	22568.45	4482.14	3259.5 2	8281.34	45212. 52	46767. 56	45047. 50
2013- 14	389427. 94	190114. 88	24555.39	21978.41	4285.54	3604.9 0	8448.64	47680. 38	42178. 14	49858. 58
2014- 15	389427. 94	190114. 88	25130.03	21403.80	4097.56	25130. 03	8619.32	50282. 94	38039. 10	25130. 03

(Source: D.S.O. Office, Koderma)



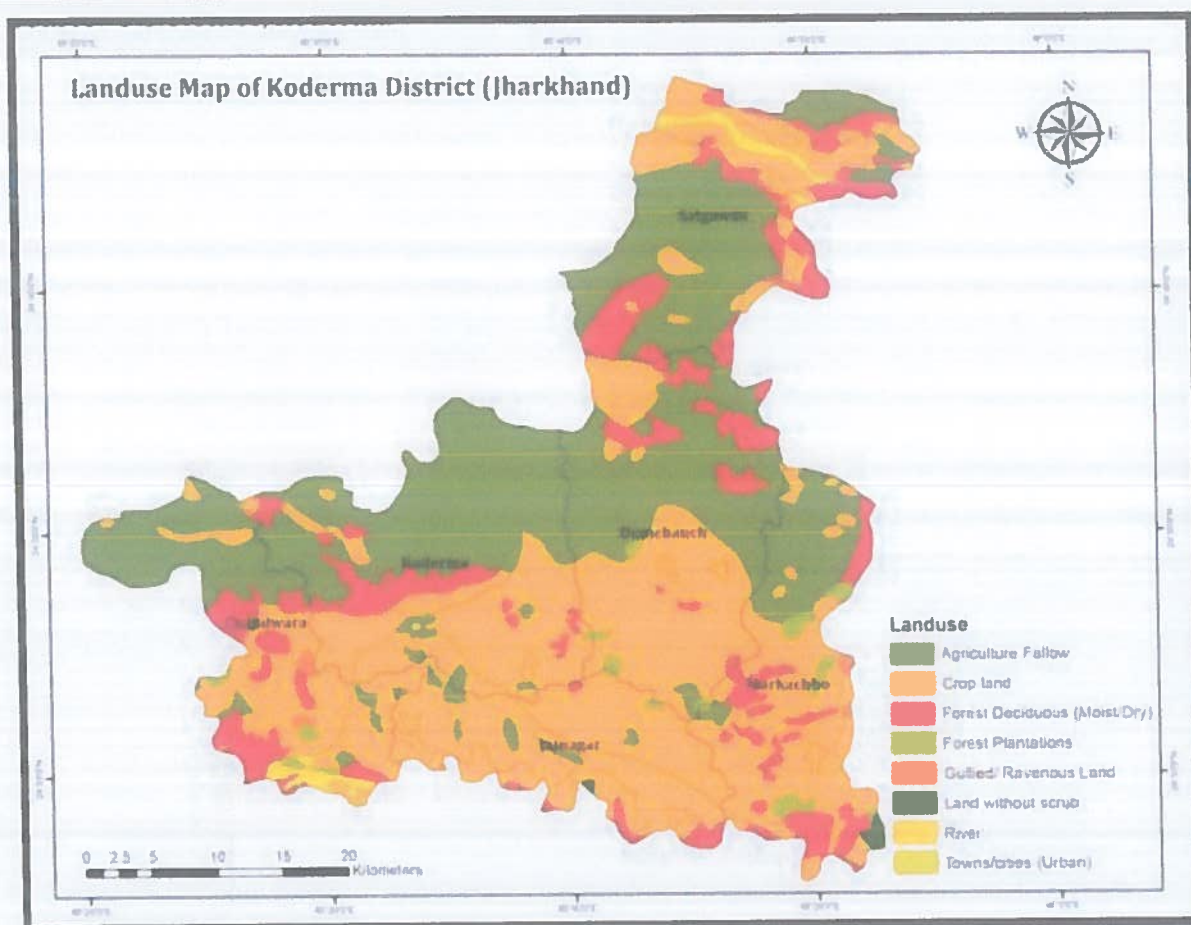


Figure 5-1: Land use Map

(Source: http://cgwb.gov.in/AQM/NAQUIM_REPORT/Jharkhand/KODERMA%20JHARKHAND.pdf)

a) Forest detail of the area

About 41% part of the Koderma district is covered with forests. The total forest area of Koderma district is 64796.90 hectare is scattered in 309 forest villages as protected forest under administrative control of Koderma Forest Division together with 15062.77 hectare scattered in 35 forest villages as a reserved forest. The reserved forest area of Koderma district is declared as wild life sanctuary and is under administrative control of wild life division Hazaribagh. The per capita forest area in hectare is 0.14. Sal is the main forest crop together with Bija, Gamhar, Khair, Palash, Salai, Semal, Bair, Arjun, Karam, Siris, Kaj, Kend, Mahulan, Mahua, Karanj, Ratti etc. Koderma forest area having Barakar, Sakri, Dhadhar and Telaiya River are the main river of Koderma forest. Koderma Forest division is rich in geological assets with biggest concentration of Mica in the Country. Archaen and the lower Gondwana are the two main rock formation found in this division. Due to several adephic and bioteic factors the forest of Koderma division are very poor and in degraded and depilated coindition. They are badly affected by soil erosion and biotic interference. With the organisation of 309 Village Forest Mangament and protection commitee, the forest density & canopy is increaing since recent years with the active partifipation of the members of concern forest commitee.



b) Agriculture & Irrigation

Koderma district is predominantly a forest district full of valleys and plateaus. Still then, agriculture is the main occupation of the people.

In Agriculture, major crops grown are Paddy and Maize in kharif season with a minor extent under Madhua, Jawar and Bajra in cereals; Arhar, Urad, Moong in decreasing extent in pulses; In Kharif oil seeds groundnut and Til occupy some areas with presence of Suguja and Soyabean. Wheat and gram occupies maximum areas in Rabi season followed Sarso, Masur, Tissi peas.

c) Mining

The mineral resources of Koderma district playing massive role in industrial, social and economic development of the district. Available mineral resources in the district

- Sand
- Stone
- Morram
- Quartz
- Feldspar
- Mica

Sand mining activities are playing a significant role industrial, social and economic development of the district. The sand mining carried out throughout the district mainly in stretch of Keso, Dhanarjay, Dudhi, Akto & Sakri River.



6 Geology

The entire district is underlain by the rocks of wide variety of geological formation ranging in age from Archean to Recent. The main being Archean proterozoic, pemocarboniferous and recent. Phyllite, Mica Schist, Granite gneiss and intrusive granite are the main geological formation of the district. Sporadic occurrence of Dolerite, Quartz pegmatite veins and Quartzites are also found. Few portion of Gondwana sediments are found in the block of Markacho and Jainagar. Thin deposits of alluvium are found along the course of rivers. The Geological succession of Koderma district is given below.

GEOLOGICAL SUCCESSION

The district is underlain by wide range of geological formations ranging in age from Archeans to Recent. Phyllite, Mica Schists, Granite gneiss and intrusive granites are the main geological formations of the district. Sporadic occurrence of Dolerite, Quartz, quartz pegmatite veins and quartzite are also found. Thin venner of thin alluvium are found near the course of rivers.

Table No. 6.1: Geological succession of Koderma mica belt (Mahadevan 2002)

Age	Rock type
Recent	Alluvium
Permo-carboniferous sediments	Gondwana
-----Unconformity-----	
	Dolerite dyke
	Rapakavi granite and pegmatites
Proterozoic	Biotite augen gneiss
	Medium grained massive granites and pegmatites
	Massive quartzite with slaty and phyllitic intercalations
	Sillimanite muscovite schist, calc silicate rocks, Hornblende schist
	Quartz mica schist, Garnetiferous biotite schist
	Migmatite and composite gneisses
-----Unconformity-----	
	Archean Chotanagpur granite gneisses



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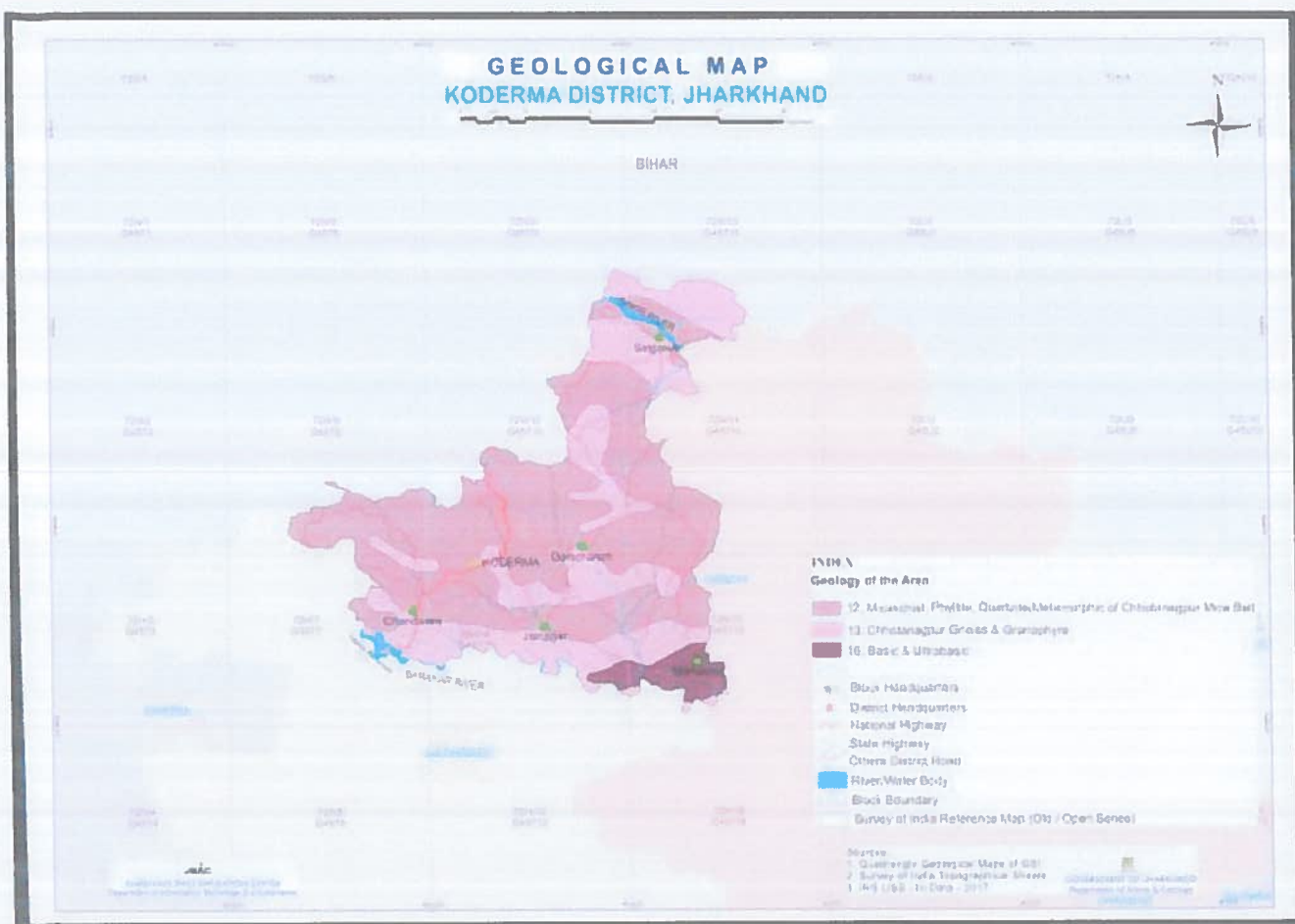


Figure No. 6- 1: Geological Map of Koderma

(Source: https://geology.jharkhand.gov.in/documents/geological_map/Koderma.pdf)



7 Mineral wealth

The mineral resources of Koderma district playing massive role in industrial, social and economic development of the district. Available mineral resources in the district are Sand, Mica, Quartz, Feldspar etc.

Sand mining activities are playing a significant role industrial, social and economic development of the district. The sand mining carried out throughout the district mainly in stretch of Sakari, Keso, Dudhi, Dhanarjay and Akto River.

7.1 Overview of mineral resources

The mineral resources of the district whose categorization and estimation have been done are furnished in this section.

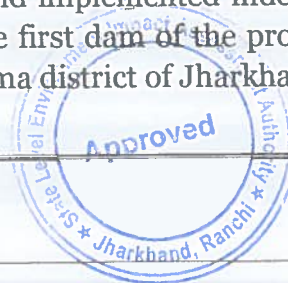
7.2 Details of Resources

i) Drainage System

The Barakar River flows in the southern part of the district and supports the multi-purpose Tilaiya Dam. Poanchkhara, Keso, Akto, Gauri, Gukhana Nadi are the main tributaries of the Barakar in the district. The Sakri River is the main river in the northern part of the district. Ghagra nadi, Chhotanari nadi and Tamoriya are the tributaries of Sakri River.

The Barakar River is the main tributary of the Damodar River in eastern India. Originating near Padma in Hazaribagh district of Jharkhand, it flows for 225 kilometres across the northern part of the Chota Nagpur Plateau, mostly in a west to east direction, before joining the Damodar near Dishergarh in Asansol, Bardhaman district of West Bengal. It has a catchment area of 6,159 square kilometre. Apart from the two main tributaries some fifteen medium or small streams join it.

The huge volume of monsoon water was carried down the valley and formerly created havoc with floods in the lower Damodar basin. Annual rainfall over the basin varies between 765 and 1,607 millimetres with an average of 1,200 millimetres of which 80 percent occurs during the monsoon season from June to September. In order to harness the river (along with the Damodar), the Damodar Valley Corporation (DVC) planned and implemented independent India's first multipurpose river valley project. The first dam of the project was constructed across the Barakar at Tilaiya in Koderma district of Jharkhand.



The dam is 366 meters long and is 30.18 meters high from the river bed level. Tilaiya hydel power station is located on the left bank of the river Barakar.

Table No. 7- 1: Drainage System with description of Main River

S. No.	Name of the River	Area drained (Sq. Km)	% Area drained in the district
1	Sakri River	8.44	0.520
2	Keso River	-	-
3	Akto River	-	-
4	Barakar River	51.92	3.199

Table No. 7- 2: Salient Features of Important River & Stream

S. No.	Name of the River or Stream	Total Length in the District (in km)	Place of Origin	Altitude at Origin
1	Sakri River	26.03	Sandohro	
2	Keso	-	-	-
3	Akto	-	-	-
4	Barakar River	72.85	Hazaribagh Forest (Padma)	420

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 Koderma District is furnished below.

Table No. 7- 3: Place of Origin of important rivers and streams

Name of the River or Stream	Place of origin
Sakri River	Sandohro
Keso	-
Akto	-

Name of the River or Stream	Place of origin
Barakar River	Hazaribagh Forest (Padma)

ii) Catchment Area

The Koderma district is mainly drained by Barakar, Sakari, Keso and Akto River and their tributary rivers which are forming the catchment area of the district.

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 Koderma district along with the distribution of the section lines are shown in figure 7.1.



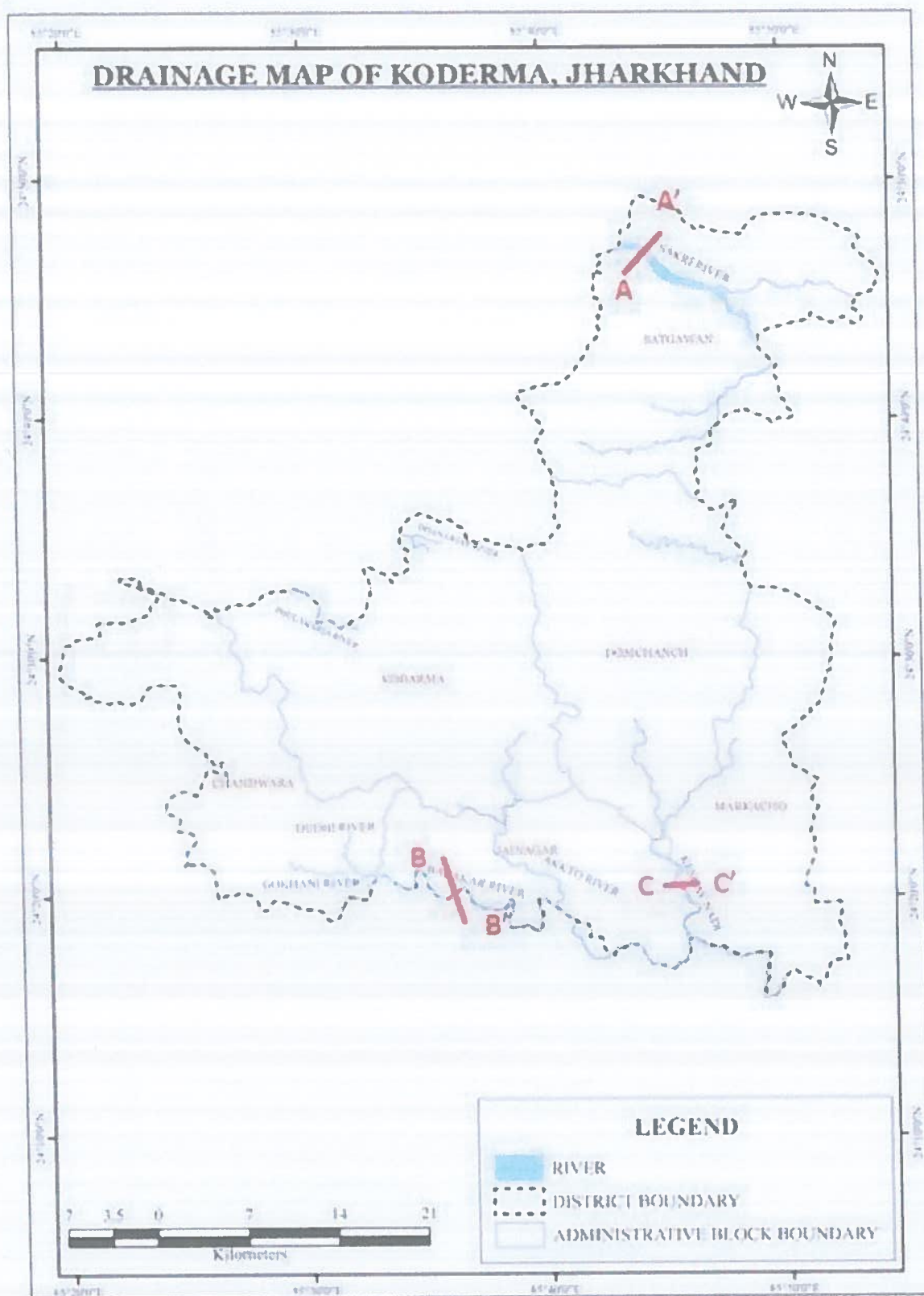


Figure No. 7- 1: Plan showing the major rivers along with the distribution of Section Lines, Koderma District, Jharkhand

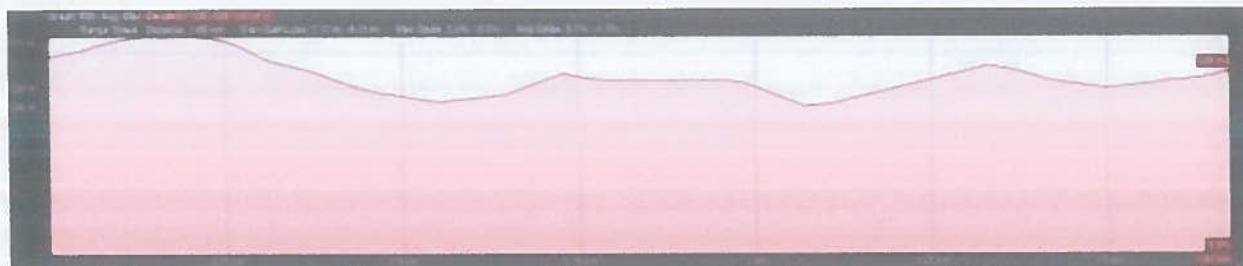


Figure No. 7- 2: Cross Section along A-A' on river Sakri



Figure No. 7- 3: Cross section of Barakar River along B-B'



Figure No. 7- 4: Cross section of Keso River along C-C'

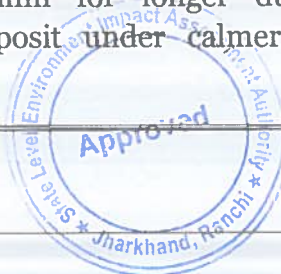
iv) Annual deposition factor

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 ceases horizontal movement and rapidly come to rest. In case of suspended load, the grain settle longer distances 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 $62.5\ \mu\text{m}$. 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.

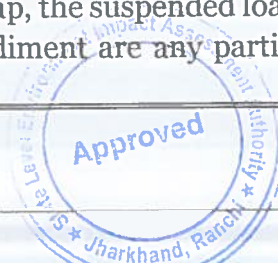
2. Mode of sediment transport in rivers

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 Q_s .

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, $q_t = q_b + q_s$. 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 q_s .

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 equation's 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 erosion 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 kilometer. 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.

▪ **Replenishment estimation**

Sedimentation in any river is dependent on sediment yield and sediment yield 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 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 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. In few instances, sieve analysis of the sands was carried out to derive the size frequency analysis.

Physical benchmark also established using Total Station at the river site.



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Figure No. 7- 5: Field Survey Photographs



- **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. Frequency distribution did while selection of the ground truthing of the blocks.

- **Data Compilation:**

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

- Elevation levels of the different sand Ghats and Sand Bar's as measured at site.
- Extents of the sand bars are measured from the 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 rivers of the Koderma district are Barakar, Akto, Dudhi, Dhanarjai, Keso & Sakri. Planning has been done for systematic sand mining in the rivers.

Altogether 103 sand bars have been identified during pre-monsoon period. Out of the total 103 Ghats, 40 are falling in Barakar River, 13 ghats are falling on Dudhi River, 11 ghats are on Akto River, 21 ghats are falling on Keso River, 12 are on Dhanarjay River and rest 6 ghats on Sakri River.

During post-monsoon period, total 103 sand ghats identified. Out of the total 103 Ghats, 40 are falling in Barakar River, 13 ghats are falling on Dudhi River, 11 ghats are on Alto River, 21 ghats are falling on Keso River, 12 are on Dhanarjay River and rest 6 ghats on Sakri River.



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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.

Details of each sand bars along with their sand resources in pre-monsoon and post monsoon period are provided in below Table no 7.4.



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Table No. 7- 4: Estimation of Sand Resources in Pre-monsoon period & Post monsoon period in sand bars

Table No. 7- 4: Estimation of Sand Resources in Pre-monsoon period & Post monsoon period in Sand Bar												
Pre monsoon						Post monsoon						Difference in Sandbar(Mcum)
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 of Barakar River												
1	PRE_KD_CD_BK_01	365	90757.15089	2	0.182	1	PO_KD_CD_BK_01	365.5	90757.1	2	0.182	0.000
2	PRE_KD_JN_BK_02	366	35529.15177	2	0.071	2	PO_KD_JN_BK_02	366.5	35529.2	2	0.071	0.000
3	PRE_KD_JN_BK_03	366	10954.05792	2	0.022	3	PO_KD_JN_BK_03	366.5	10954.1	2	0.022	0.000
4	PRE_KD_JN_BK_04	365	13492.37544	2	0.027	4	PO_KD_JN_BK_04	365.5	14511.7	2	0.029	0.002
5	PRE_KD_JN_BK_05	364	56916.75873	2	0.114	5	PO_KD_JN_BK_05	364.5	56916.8	2	0.114	0.000
6	PRE_KD_JN_BK_06	365	12609.30644	2	0.025	6	PO_KD_JN_BK_06	365.5	12609.3	2	0.025	0.000
7	PRE_KD_JN_BK_07	366	50162.102	2	0.100	7	PO_KD_JN_BK_07	366.5	50162.1	2	0.100	0.000
8	PRE_KD_JN_BK_08	364	12141.34576	2	0.024	8	PO_KD_JN_BK_08	364.5	13737.7	2	0.027	0.003
9	PRE_KD_JN_BK_09	363	59534.26332	2	0.119	9	PO_KD_JN_BK_09	363.5	59534.3	2	0.119	0.000
10	PRE_KD_JN_BK_10	362	26457.37211	2	0.053	10	PO_KD_JN_BK_10	362.5	26457.4	2	0.053	0.000
11	PRE_KD_JN_BK_11	359	46892.99868	2	0.094	11	PO_KD_JN_BK_11	359.5	51020.6	2	0.102	0.008
12	PRE_KD_JN_BK_12	357	60507.58867	2	0.121	12	PO_KD_JN_BK_12	357.5	61760.4	2	0.124	0.003
13	PRE_KD_JN_BK_13	361	20393.06824	2	0.041	13	PO_KD_JN_BK_13	361.5	20393.1	2	0.041	0.000
14	PRE_KD_JN_BK_14	360	78300.77292	2	0.157	14	PO_KD_JN_BK_14	360.5	78503.9	2	0.157	0.000
15	PRE_KD_JN_BK_15	359	12725.31779	2	0.025	15	PO_KD_JN_BK_15	359.5	12725.3	2	0.025	0.000
16	PRE_KD_JN_BK_16	358	15466.06503	2	0.031	16	PO_KD_JN_BK_16	358.5	15466.1	2	0.031	0.000
17	PRE_KD_JN_BK_17	357	12973.58422	2	0.026	17	PO_KD_JN_BK_17	357.5	12973.6	2	0.026	0.000
18	PRE_KD_JN_BK_18	356	3394.453395	2	0.007	18	PO_KD_JN_BK_18	356.5	3394.45	2	0.007	0.000
19	PRE_KD_JN_BK_19	355	15376.19277	2	0.031	19	PO_KD_JN_BK_19	355.5	15376.2	2	0.031	0.000



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Pre monsoon						Post monsoon						Difference in Sandbar(Mcum)
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	
20	PRE_KD_JN_BK_20	359	7785.41197	2	0.016	20	PO_KD_JN_BK_20	359.5	7785.41	2	0.016	0.000
21	PRE_KD_JN_BK_21	360	10861.93017	2	0.022	21	PO_KD_JN_BK_21	360.5	10861.9	2	0.022	0.000
22	PRE_KD_JN_BK_22	355	11212.17643	2	0.022	22	PO_KD_JN_BK_22	355.5	11212.2	2	0.022	0.000
23	PRE_KD_JN_BK_23	356	9231.405389	2	0.018	23	PO_KD_JN_BK_23	356.5	9231.41	2	0.018	0.000
24	PRE_KD_JN_BK_24	357	33279.47019	2	0.067	24	PO_KD_JN_BK_24	357.5	33279.5	2	0.067	0.000
25	PRE_KD_JN_BK_25	362	10317.06064	2	0.021	25	PO_KD_JN_BK_25	362.5	10317.1	2	0.021	0.000
26	PRE_KD_JN_BK_26	360	16169.8292	2	0.032	26	PO_KD_JN_BK_26	360.5	16169.8	2	0.032	0.000
27	PRE_KD_JN_BK_27	350	25755.01167	2	0.052	27	PO_KD_JN_BK_27	350.5	25755	2	0.052	0.000
28	PRE_KD_JN_BK_28	347	52986.47094	2	0.106	28	PO_KD_JN_BK_28	347.5	52986.5	2	0.106	0.000
29	PRE_KD_JN_BK_29	348	15705.62398	2	0.031	29	PO_KD_JN_BK_29	348.5	15705.6	2	0.031	0.000
30	PRE_KD_JN_BK_30	346	35025.56124	2	0.070	30	PO_KD_JN_BK_30	346.5	35025.6	2	0.070	0.000
31	PRE_KD_JN_BK_31	352	37603.11208	2	0.075	31	PO_KD_JN_BK_31	352.5	37603.1	2	0.075	0.000
32	PRE_KD_JN_BK_32	352	10423.93433	2	0.021	32	PO_KD_JN_BK_32	352.5	10423.9	2	0.021	0.000
33	PRE_KD_JN_BK_33	349	16911.05628	2	0.034	33	PO_KD_JN_BK_33	349.5	16911.1	2	0.034	0.000
34	PRE_KD_JN_BK_34	351	16153.08719	2	0.032	34	PO_KD_JN_BK_34	351.5	16153.1	2	0.032	0.000
35	PRE_KD_JN_BK_35	346	9320.9089	2	0.019	35	PO_KD_JN_BK_35	346.5	9320.91	2	0.019	0.000
36	PRE_KD_JN_BK_36	348	21295.61081	2	0.043	36	PO_KD_JN_BK_36	348.5	21295.6	2	0.043	0.000
37	PRE_KD_JN_BK_37	344	9887.927429	2	0.020	37	PO_KD_JN_BK_37	344.5	9887.93	2	0.020	0.000
38	PRE_KD_JN_BK_38	349	39078.51101	2	0.078	38	PO_KD_JN_BK_38	349.5	39078.5	2	0.078	0.000
39	PRE_KD_MC_BK_39	344	76935.32784	2	0.154	39	PO_KD_MC_BK_39	344.5	76935.3	2	0.154	0.000
40	PRE_KD_MC_BK_40	335	3587.374692	2	0.007	40	PO_KD_MC_BK_40	335.5	3587.37	2	0.007	0.000
			1104110.728		2.208				1112310.180		2.225	0.016



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Pre monsoon						Post monsoon						Difference in Sandbar(Mcum)
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 of Dudhi River												
1	PRE_KD_CD_DD_01	375	5420.376019	1	0.005	1	PO_KD_CD_DD_01	375.5	5420.38	1	0.005	0.000
2	PRE_KD_CD_DD_02	378	1735.524226	1	0.002	2	PO_KD_CD_DD_02	378.5	1735.52	1	0.002	0.000
3	PRE_KD_CD_DD_03	377	2290.155515	1	0.002	3	PO_KD_CD_DD_03	377.5	2290.16	1	0.002	0.000
4	PRE_KD_CD_DD_04	375	2746.737286	1	0.003	4	PO_KD_CD_DD_04	375.5	2746.74	1	0.003	0.000
5	PRE_KD_CD_DD_05	376	1465.326518	1	0.001	5	PO_KD_CD_DD_05	376.5	1465.33	1	0.001	0.000
6	PRE_KD_CD_DD_06	373	2869.896044	1	0.003	6	PO_KD_CD_DD_06	373.5	2869.9	1	0.003	0.000
7	PRE_KD_CD_DD_07	375	3848.554399	1	0.004	7	PO_KD_CD_DD_07	375.5	3848.55	1	0.004	0.000
8	PRE_KD_CD_DD_08	373	5747.562624	1	0.006	8	PO_KD_CD_DD_08	373.5	5747.56	1	0.006	0.000
9	PRE_KD_CD_DD_09	374	3774.927356	1	0.004	9	PO_KD_CD_DD_09	374.5	3774.93	1	0.004	0.000
10	PRE_KD_CD_DD_10	373	1352.602037	1	0.001	10	PO_KD_CD_DD_10	373.5	1352.6	1	0.001	0.000
11	PRE_KD_CD_DD_11	374	7733.957547	1	0.008	11	PO_KD_CD_DD_11	374.5	7733.96	1	0.008	0.000
12	PRE_KD_CD_DD_12	372	2468.647194	1	0.002	12	PO_KD_CD_DD_12	372.5	2468.65	1	0.002	0.000
13	PRE_KD_CD_DD_13	371	4487.637644	1	0.004	13	PO_KD_CD_DD_13	371.5	4487.64	1	0.004	0.000
			45941.90		0.046				45941.92		0.046	0.000
Estimation of Sand Resources in Pre monsoon period & Post monsoon period of Akto River												
1	PRE_KD_JN_AK_01	373	13108.52172	1	0.013	1	PO_KD_JN_AK_01	373.5	13108.5	1	0.013	0.000
2	PRE_KD_JN_AK_02	372	8997.527009	1	0.009	2	PO_KD_JN_AK_02	372.5	8997.53	1	0.009	0.000
3	PRE_KD_JN_AK_03	369	8983.764632	1	0.009	3	PO_KD_JN_AK_03	369.5	8983.76	1	0.009	0.000
4	PRE_KD_JN_AK_04	366	8169.792877	1	0.008	4	PO_KD_JN_AK_04	366.5	8169.79	1	0.008	0.000
5	PRE_KD_JN_AK_05	363	38430.7002	1	0.038	5	PO_KD_JN_AK_05	363.5	39905.3	1	0.040	0.001
6	PRE_KD_JN_AK_06	360	10265.733	1	0.010	6	PO_KD_JN_AK_06	360.5	10265.7	1	0.010	0.000



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Pre monsoon						Post monsoon						Difference in Sandbar(Mcum)
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	
7	PRE_KD_JN_AK_07	357	9980.923239	1	0.010	7	PO_KD_JN_AK_07	357.5	9980.92	1	0.010	0.000
8	PRE_KD_JN_AK_08	358	9822.476732	1	0.010	8	PO_KD_JN_AK_08	358.5	9822.48	1	0.010	0.000
9	PRE_KD_JN_AK_09	356	29567.4556	1	0.030	9	PO_KD_JN_AK_09	356.5	29567.5	1	0.030	0.000
10	PRE_KD_JN_AK_10	358	19512.97756	1	0.020	10	PO_KD_JN_AK_10	358.5	19513	1	0.020	0.000
11	PRE_KD_JN_AK_11	357	36159.4909	1	0.036	11	PO_KD_JN_AK_11	357.5	36159.5	1	0.036	0.000
			192999.36		0.19				194473.98		0.19	0.001
Estimation of Sand Resources in Pre monsoon period & Post monsoon period of Keso River												
1	PRE_KD_DC_KS_01	366	39611.0228	2	0.079	1	PO_KD_DC_KS_01	366.5	39611	2	0.079	0.000
2	PRE_KD_DC_KS_02	363	18092.65239	2	0.036	2	PO_KD_DC_KS_02	363.5	18092.7	2	0.036	0.000
3	PRE_KD_JN_KS_03	361	25860.88642	2	0.052	3	PO_KD_JN_KS_03	361.5	25860.9	2	0.052	0.000
4	PRE_KD_JN_KS_04	360	60489.61386	2	0.121	4	PO_KD_JN_KS_04	360.5	60489.6	2	0.121	0.000
5	PRE_KD_JN_KS_05	361	39466.67615	2	0.079	5	PO_KD_JN_KS_05	361.5	39466.7	2	0.079	0.000
6	PRE_KD_JN_KS_06	359	22649.25742	2	0.045	6	PO_KD_JN_KS_06	359.5	22649.3	2	0.045	0.000
7	PRE_KD_JN_KS_07	358	6834.667117	2	0.014	7	PO_KD_JN_KS_07	358.5	6834.67	2	0.014	0.000
8	PRE_KD_JN_KS_08	359	4506.94227	2	0.009	8	PO_KD_JN_KS_08	359.5	4506.94	2	0.009	0.000
9	PRE_KD_MC_KS_09	361	13388.66905	2	0.027	9	PO_KD_MC_KS_09	361.5	13388.7	2	0.027	0.000
10	PRE_KD_MC_KS_10	357	5580.044344	2	0.011	10	PO_KD_MC_KS_10	357.5	5580.04	2	0.011	0.000
11	PRE_KD_JN_KS_11	359	12399.69745	2	0.025	11	PO_KD_MC_KS_11	359.5	12399.7	2	0.025	0.000
12	PRE_KD_JN_KS_12	356	45422.28458	2	0.091	12	PO_KD_JN_KS_12	356.5	45422.3	2	0.091	0.000
13	PRE_KD_JN_KS_13	354	24327.06344	2	0.049	13	PO_KD_JN_KS_13	354.5	24327.1	2	0.049	0.000
14	PRE_KD_MC_KS_14	352	11822.89161	2	0.024	14	PO_KD_MC_KS_14	352.5	11822.9	2	0.024	0.000
15	PRE_KD_JN_KS_15	350	10053.38518	2	0.020	15	PO_KD_JN_KS_15	350.5	10053.4	2	0.020	0.000



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Pre monsoon						Post monsoon						Difference in Sandbar(Mcum)
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	
16	PRE_KD_JN_KS_16	349	3002.026831	2	0.006	16	PO_KD_JN_KS_16	349.5	3002.03	2	0.006	0.000
17	PRE_KD_JN_KS_17	347	71190.09226	2	0.142	17	PO_KD_JN_KS_17	347.5	71190.1	2	0.142	0.000
18	PRE_KD_JN_KS_18	344	39226.95515	2	0.078	18	PO_KD_JN_KS_18	344.5	39227	2	0.078	0.000
19	PRE_KD_JN_KS_19	347	27730.34025	2	0.055	19	PO_KD_JN_KS_19	347.5	27730.3	2	0.055	0.000
20	PRE_KD_JN_KS_20	348	1977.817938	2	0.004	20	PO_KD_JN_KS_20	348.5	1977.82	2	0.004	0.000
21	PRE_KD_JN_KS_21	346	9892.048899	2	0.020	21	PO_KD_JN_KS_21	346.5	9892.05	2	0.020	0.000
			493525.04		0.99				493525.25		0.99	0.000
Estimation of Sand Resources in Pre monsoon period & Post monsoon period of Dhanarjay River												
1	PRE_KD_KD_DJ_01	199	58896.47445	1	0.059	1	PO_KD_KD_DJ_01	199.5	68304.5	1	0.068	0.009
2	PRE_KD_KD_DJ_02	200	11831.96667	1	0.012	2	PO_KD_KD_DJ_02	200.5	11832	1	0.012	0.000
3	PRE_KD_KD_DJ_03	198	29652.72866	1	0.030	3	PO_KD_KD_DJ_03	198.5	29652.7	1	0.030	0.000
4	PRE_KD_KD_DJ_04	203	9839.017691	1	0.010	4	PO_KD_KD_DJ_04	203.5	9839.02	1	0.010	0.000
5	PRE_KD_KD_DJ_05	205	35827.49215	1	0.036	5	PO_KD_KD_DJ_05	205.5	35827.5	1	0.036	0.000
6	PRE_KD_KD_DJ_06	207	13979.9482	1	0.014	6	PO_KD_KD_DJ_06	207.5	13979.9	1	0.014	0.000
7	PRE_KD_KD_DJ_07	208	4964.856223	1	0.005	7	PO_KD_KD_DJ_07	208.5	4964.86	1	0.005	0.000
8	PRE_KD_KD_DJ_08	211	4114.473904	1	0.004	8	PO_KD_KD_DJ_08	211.5	4114.47	1	0.004	0.000
9	PRE_KD_KD_DJ_09	207	3510.122376	1	0.004	9	PO_KD_KD_DJ_09	207.5	3510.12	1	0.004	0.000
10	PRE_KD_KD_DJ_10	203	9583.565477	1	0.010	10	PO_KD_KD_DJ_10	203.5	9583.57	1	0.010	0.000
11	PRE_KD_KD_DJ_11	201	11332.44688	1	0.011	11	PO_KD_KD_DJ_11	201.5	11332.4	1	0.011	0.000
12	PRE_KD_KD_DJ_12	204	6282.750772	1	0.006	12	PO_KD_KD_DJ_12	204.5	6282.75	1	0.006	0.000
			199815.84		0.20				209223.79		0.21	0.009
Estimation of Sand Resources in Pre monsoon period & Post monsoon period of Sakri River												



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Pre monsoon						Post monsoon						Difference in Sandbar(Mcum)
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	
1	PRE_KD_SG_SK_01	147	871164.7594	2	1.742	1	PO_KD_SG_SK_01	147.5	871165	2	1.742	0.000
2	PRE_KD_SG_SK_02	146	902081.8541	2	1.804	2	PO_KD_SG_SK_02	146.5	902082	2	1.804	0.000
3	PRE_KD_SG_SK_03	149	763640.3763	2	1.527	3	PO_KD_SG_SK_03	149.5	763640	2	1.527	0.000
4	PRE_KD_SG_SK_04	151	543626.1318	2	1.087	4	PO_KD_SG_SK_04	151.5	543626	2	1.087	0.000
5	PRE_KD_SG_SK_05	156	383734.5941	2	0.767	5	PO_KD_SG_SK_05	156.5	383735	2	0.767	0.000
6	PRE_KD_SG_SK_06	159	132125.8425	2	0.264	6	PO_KD_SG_SK_06	159.5	132126	2	0.264	0.000
			3596373.56		7.19				3596374.00		7.19	0.000

Maps showing distribution of sand bars on rivers of the Koderma district during Pre and Post monsoon are depicted in Plate-A & B respectively.



Table No. 7- 5: Sediment Load comparison between Pre-& Post Monsoon periods for different rivers of Koderma district

River Name	Pre-Monsoon no of sand bar	Post-Monsoon no of sand bar	Pre-Monsoon Sediment Load (Mcum)	Post-Monsoon Sediment Load (Mcum)	Difference (Mcum)	Difference %
Barakar River	40	40	2.208	2.225	0.016	0.7%
Dudhi River	13	13	0.046	0.046	0.000	0.0%
Akto River	11	11	0.193	0.194	0.001	0.8%
Keso River	21	21	0.99	0.99	0.000	0.0%
Dhanarjay River	12	12	0.20	0.21	0.009	4.5%
Sakri River	6	6	7.19	7.19	0.000	0.0%
All River	103	103	10.827	10.854	0.027	0.3%

Thus, in Koderma district, about 0.027 million cum of sand has been found as an incremental volume the river of the district when compared between pre and post monsoon sand reserve data. An average aggradation and replenishment rate for the year of Koderma district comes to about 100.3%.

▪ **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. The replenishment estimation based on a theoretical empirical formula comprising of analytical models to calculate.

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 crossed 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.



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:

$$\text{Catchment Yield (m}^3\text{)} = \text{Catchment area (m}^2\text{)} * \text{Runoff coefficient (\%)} * \text{Rainfall (m)}$$

The runoff generated from the watershed is analyzed using Strange's Tables method 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.

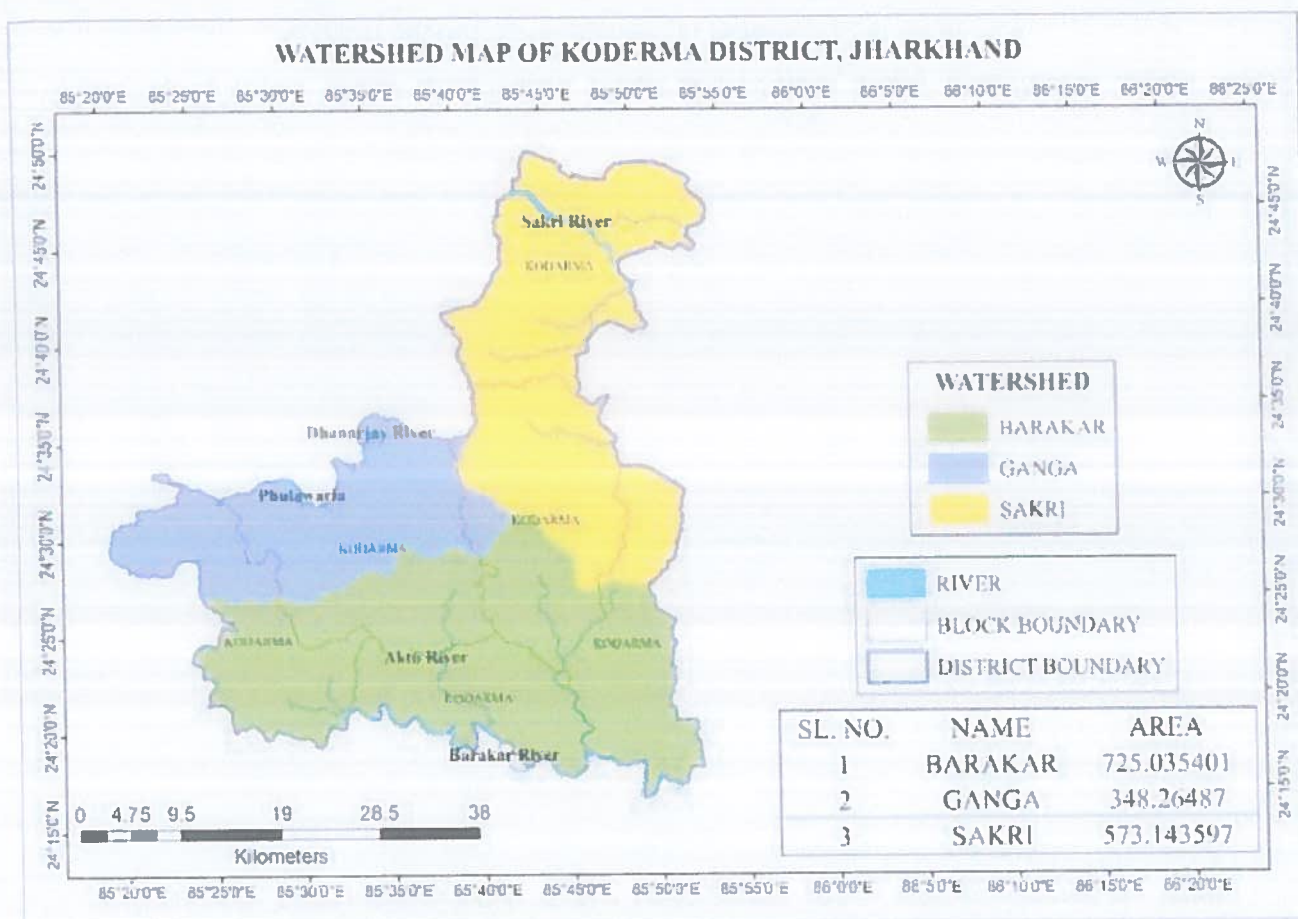


Figure No. 7- 6: Watershed map of Koderma District



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 they give. 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- 6: 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.

a. 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,

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

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,

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

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,

$$Q = CIA$$

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)

b. 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:

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

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

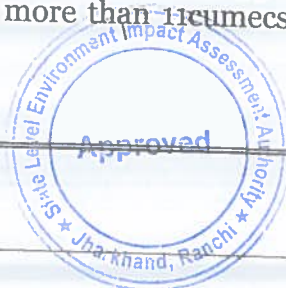
$$g_b = 0.417 [\tau_0 (\eta' / \eta)^{1.5} - \tau_c]^{1.5}$$

Where,

g_b = 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. $\eta' = (1/24) \times d_1/6$ 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.



τ_c = Critical shear stress required to move the grain in N/m^2 and given by equation $\tau_c = 0.687d_a$, where d_a 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} .

τ_0 = Unit tractive force produced by flowing water i.e. $\gamma_w R S$. Truly speaking, its value should be taken as the unit tractive force produced by the flowing water on bed = $0.97\gamma_w R S$. R is the hydraulic mean depth of the channel (depth of flow for wider channel) and S is the bed slope.

c. Sediment Yield Estimation:

Sedimentation occurred as the velocity decreases along with its ability to carry sediment. Coarse sediments deposit first, then interferes 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 hydraulic 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 gully Erosion, Channel Bed and bank erosion 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:

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

For run off more than 2 inches:



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

Q = Mean Annual runoff (inch)

A = Net drainage area 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 plant 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 of runoff 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:

$$Y = 11.8 * (Q * qP)^{.56} * K * Ls * C * P$$

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:

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

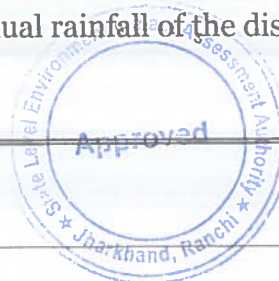
- Catchment area (Watershed area) against each river has been calculated based on remote sensing data.
- Rainfall runoff coefficient as per Strange's table for the catchment area is consider 41%, as the rainfall in the district is 1151mm and the characteristic of the catchment of the district is good 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- 7: Replenishment parameter estimated for each river in the district

Estimation parameter	Barakar	Sakri
Catchment Area (m ²)	98000000	82000000
Annual Rainfall (m)	1.15	1.15
Strange Runoff coefficient (%)	41%	41%
Annual Run-off (m)	0.253	0.253
Catchment Yield (m ³)	46207000	38663000
Peak Flood Discharge (m ³ /sec)	11819546.21	10340502.29
Flow depth d (m)	0.8	0.6
Channel width b (m)	200	1500
Mean velocity v (m/s)	0.004	0.1
Channel slope S ₀ (m/m)	0.0002	0.0004
Sediment Yield (Tons/year)	5477.17	18215.2
Estimated Annual Replenishment (in million m ³)	0.10257	0.34111

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- 8: Year-wise sedimentation rate (tons/km²/yr)
for last 5 years of each river**

Year	Barakar	Sakri
2017	45.48	37.73
2018	19.85	16.46
2019	50.43	41.83
2020	36.9	30.61
2021	23.07	19.14

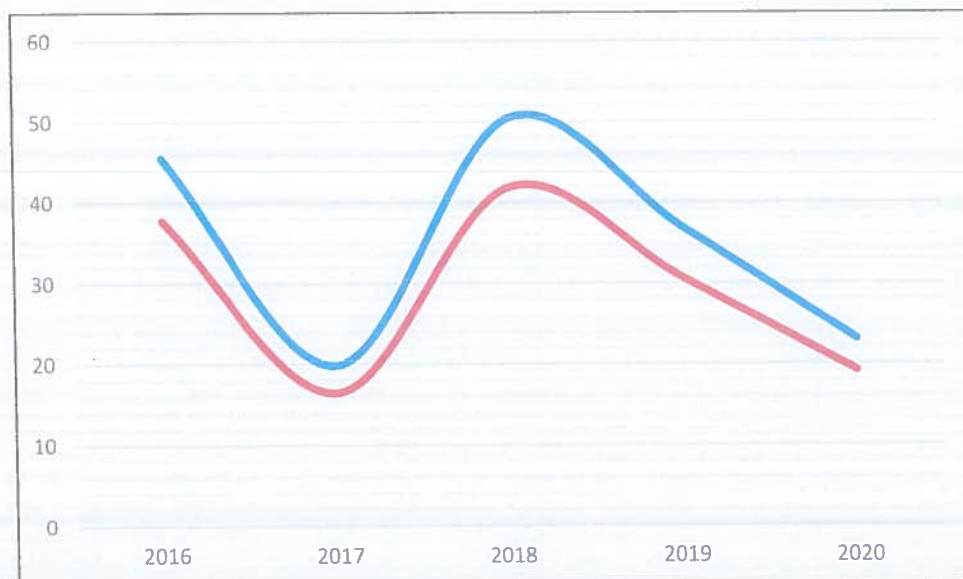


Figure No. 7- 7: Graphical representation of year-wise sedimentation rate

vi) Total potential of minor mineral in the river bed

The major sand producing rivers of the district are Barakar and Sakri. Total potential sand resource of the district is 4.07 Mcum.

B. Geological studies

i) Lithology of the catchment area

The district is underlain by wide range of geological formations ranging in age from Archeans to Recent. Phyllite, Mica Schists, Granite gneiss and intrusive granites are the main geological formations of the district. Sporadic occurrence of Dolerite, Quartz, quartz pegmatite veins and quartzite are also found. Thin veneer of thin alluvium is found near the course of rivers.

ii) Tectonics and structural behavior of rocks

Structurally, CGGC bears imprints of three generations of deformation producing distinctive Folds and related fabrics whereas Gondwana exhibits Gravity Normal Faults along with a various Primary and Secondary Sedimentary structures like Cross Stratification, Ripple marks, Pene-Contemporaneous Deformational structures, Hummocky Cross Stratification etc. Dudhi nala area, Mandu Block of the district is regarded as museum of sedimentary structures.



C. Climate Factors

i) Intensity of rainfall

The average annual rainfall of the district is 875 mm (Between 2017 to 2021). The rainfall during the monsoon season – June to September – constitutes 82% of the annual rainfall; July and August are the rainiest months. The district receives a mean annual rainfall varying from 535.5 mm to 1150 mm.

ii) Climate zone

The climate of the district marginally tropical and is quite cold but somewhat hot in summer. The year can be divided into three seasons. The cold season starts from November and continues till middle to end of February while December and January are the coolest month in association with cold wave which occasionally pass through the area in the wake of western disturbances. Severe cold waves have been reported during the month of December and January.

iii) Temperature variation

There are three main seasons in the district of Koderma. The winter season starts from November to February. The summer season is from March to May and the rainy season is from June to October. In winter early mornings and nights are cold. Night temperature falls down to 5°C or even lower. To the contrast summer is hot and unpleasant, the temperature rising up to 44° C.

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 1/4th of river width and not less than 7.5 meters. Also, mining is prohibited up to a distance of 1 kilometer (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 7.9.



Table No. 7- 9: Annual deposition of Riverbed minerals

Sr. No.	River or Stream	Portion of the river stream recommended for mineral concession (%)	Length of area recommended for mineral concession (in meters)	Average width of area recommended for mineral concession (in meters)	Area recommended for mineral concession (in sq. meter)	Considered mining thickness (m)	Potential Sand Resources (Mcum)	Mineable mineral potential (in million cubic meter) (60% of total mineral potential)
1	BARAKAR	18%	995.56	81.17	765723.63	2.0	1.5	0.92
2	DUDHI	9%	519.41	26.63	15310.69	1.0	0.0	0.01
3	AKTO	13%	842.50	60.65	141112.56	1.0	0.1	0.08
4	KESO	12%	1038.98	76.52	309373.27	2.0	0.6	0.37
5	DHANARJAY	12%	535.91	52.00	50292.11	1.0	0.1	0.03
6	SAKRI	33%	2530.97	361.36	2209344.00	2.0	4.4	2.65
Total Mineable volume							6.78	4.07

iii) Riverbed Mineral Potential

Huge quantities of quality sands are found to occur in part of rivers. Smaller patches are also available locally in the other smaller rivers as well.

Table No. 7- 10: Resources of Potential Riverbed Mineral

Boulder (Mcum)	Pebbles/Gravel (Mcum)	Sand/White sand (Mcum)	Total Mineable, Mineral Potential (Mcum)
-	-	-	4.07

iv) Riverbed Mineral Potential Zones

Table No. 7- 11: Potential Zone of Riverbed Mineral

RIVER NAME	ZONE		COORDINATE		LENGTH (MTS)	WIDTH (MTS)	AREA (SQMTS)
			LATITUDE	LONGITUDE			
BARAKAR	ZONE_BK_01	1	24° 20' 14.886" N	85° 32' 27.625" E	732.57	143.29	83028.3
		2	24° 20' 37.107" N	85° 32' 36.955" E			
	ZONE_BK_02	3	24° 20' 20.821" N	85° 34' 15.125" E	633.71	102.87	37884.84
		4	24° 20' 39.867" N	85° 34' 19.421" E			
	ZONE_BK_03	5	24° 20' 57.358" N	85° 34' 48.002" E	2135.09	87.27	133253.5
		6	24° 19' 59.747" N	85° 35' 27.104" E			
	ZONE_BK_04	7	24° 20' 19.926" N	85° 36' 15.395" E	1169.04	98.85	72152.5
		8	24° 20' 1.411" N	85° 36' 46.442" E			
	ZONE_BK_05	9	24° 19' 52.575" N	85° 38' 26.575" E	1806.98	99.31	123868.6
		10	24° 18' 57.774" N	85° 38' 17.721" E			
	ZONE_BK_06	11	24° 18' 43.413" N	85° 38' 26.613" E	1054.75	75.63	57460.6



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RIVER NAME	ZONE		COORDINATE		LENGTH (MTS)	WIDTH (MTS)	AREA (SQMTRS)
			LATITUDE	LONGITUDE			
	ZONE_BK_07	12	24° 18' 47.492" N	85° 39' 3.449" E	158.39	48.36	6517.76
		13	24° 19' 56.419" N	85° 39' 43.080" E			
		14	24° 19' 54.610" N	85° 39' 48.344" E			
	ZONE_BK_08	15	24° 19' 34.096" N	85° 40' 15.466" E	605.33	36.35	29052.02
		16	24° 19' 22.926" N	85° 40' 33.160" E			
	ZONE_BK_09	17	24° 19' 3.190" N	85° 41' 1.282" E	185.75	50.26	8408.15
		18	24° 19' 0.111" N	85° 41' 6.942" E			
	ZONE_BK_10	19	24° 17' 34.621" N	85° 42' 35.387" E	1546.93	85.48	116739.3
		20	24° 17' 58.832" N	85° 43' 22.715" E			
	ZONE_BK_11	21	24° 17' 6.873" N	85° 44' 41.640" E	990.31	57.21	28457.4
		22	24° 17' 3.707" N	85° 45' 13.184" E			
	ZONE_BK_12	23	24° 18' 12.113" N	85° 45' 50.217" E	927.81	89.2	68900.7
		24	24° 18' 4.989" N	85° 46' 22.174" E			
DUDHI	ZONE_DD_01	25	24° 22' 19.332" N	85° 31' 40.053" E	636.6	26.01	8087.756
		26	24° 22' 5.493" N	85° 31' 32.494" E			
	ZONE_DD_02	27	24° 21' 9.018" N	85° 31' 52.750" E	402.21	27.25	7222.75
		28	24° 21' 0.656" N	85° 31' 59.519" E			
AKTO	ZONE_AK_01	29	24° 21' 40.358" N	85° 37' 59.475" E	390.21	36.18	13707.71
		30	24° 21' 35.036" N	85° 38' 12.048" E			
	ZONE_AK_02	31	24° 20' 54.425" N	85° 39' 51.426" E	584.48	77.05	38205.4
		32	24° 20' 45.462" N	85° 40' 9.779" E			
	ZONE_AK_03	33	24° 20' 10.458" N	85° 40' 26.902" E	1552.82	68.71	89199.45
		34	24° 19' 32.763" N	85° 40' 22.543" E			
KESO	ZONE_KS_01	35	24° 22' 27.454" N	85° 44' 46.026" E	910.27	82.71	45959.68
		36	24° 22' 10.654" N	85° 44' 21.937" E			
	ZONE_KS_02	37	24° 21' 42.625" N	85° 44' 34.356" E	1682.87	81.36	96160.4
		38	24° 21' 17.632" N	85° 45' 28.063" E			
	ZONE_KS_03	39	24° 21' 14.702" N	85° 45' 29.104" E	1459.18	77.1	68228.56
		40	24° 20' 28.680" N	85° 45' 16.645" E			
	ZONE_KS_04	41	24° 19' 13.548" N	85° 45' 59.724" E	1018.36	113.28	95515.69
		42	24° 18' 51.147" N	85° 45' 38.480" E			
	ZONE_KS_05	43	24° 18' 18.713" N	85° 45' 45.189" E	124.21	28.14	3508.94
		44	24° 18' 15.965" N	85° 45' 48.411" E			
DHANARJAY	ZONE_DJ_01	45	24° 35' 9.511" N	85° 33' 59.300" E	163.83	54.38	7923.99
		46	24° 35' 7.108" N	85° 34' 4.525" E			
	ZONE_DJ_02	47	24° 34' 42.881" N	85° 34' 51.815" E	820.09	70.96	27806.83
		48	24° 34' 27.736" N	85° 35' 10.680" E			
	ZONE_DJ_03	49	24° 35' 7.614" N	85° 34' 40.357" E	623.8	30.66	14561.29
		50	24° 34' 59.464" N	85° 35' 1.056" E			
SAKRI	ZONE_SK_01	51	24° 47' 0.367" N	85° 43' 1.660" E	3498.65	290.58	826581
		52	24° 46' 34.935" N	85° 44' 50.056" E			
	ZONE_SK_02	53	24° 46' 11.803" N	85° 45' 17.340" E	3126.22	432.29	1080417
		54	24° 45' 28.491" N	85° 46' 51.545" E			



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RIVER NAME	ZONE		COORDINATE		LENGTH (MTS)	WIDTH (MTS)	AREA (SQMTS)
			LATITUDE	LONGITUDE			
	ZONE_SK_03	55	24° 45' 15.175" N	85° 47' 25.364" E	968.04	361.21	302346
56		24° 44' 47.783" N	85° 47' 48.705" E				

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 1/4th 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 river is marked as no mining zone, as mining in 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 Barakar of Koderma district is given in Figure 7.8.

Table No. 7- 12: Restricted Zone of Riverbed Mineral

RIVER NAME	ZONE	RESTRICTED AREA (SQ MTS)
BARAKAR	ZONE_BK_01	7728.850098
	ZONE_BK_02	8598.394081
	ZONE_BK_03	14684.06986
	ZONE_BK_04	13839.18726
	ZONE_BK_05	9305.439682
	ZONE_BK_06	15.70078
	ZONE_BK_07	1.27253
	ZONE_BK_08	3979.252098
	ZONE_BK_09	0
	ZONE_BK_10	16384.61809
	ZONE_BK_11	5357.775494
	ZONE_BK_12	8034.589844
DUDHI	ZONE_DD_01	5424.596373
	ZONE_DD_02	1394.518089
AKKTO	ZONE_AK_01	3445.849976
	ZONE_AK_02	1699.935974
	ZONE_AK_03	7918.951864
KESHAV	ZONE_KS_01	9220.420166
	ZONE_KS_02	18823.02802



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RIVER NAME	ZONE	RESTRICTED AREA (SQ MTS)
	ZONE_KS_03	19500.57007
	ZONE_KS_04	16765.76452
	ZONE_KS_05	1087.546
DHANARJAY	ZONE_DJ_01	1763.666992
	ZONE_DJ_02	4113.407967
	ZONE_DJ_03	2438.426086
SAKRI	ZONE_SK_01	242940.6992
	ZONE_SK_02	307618.1016
	ZONE_SK_03	49400.04846



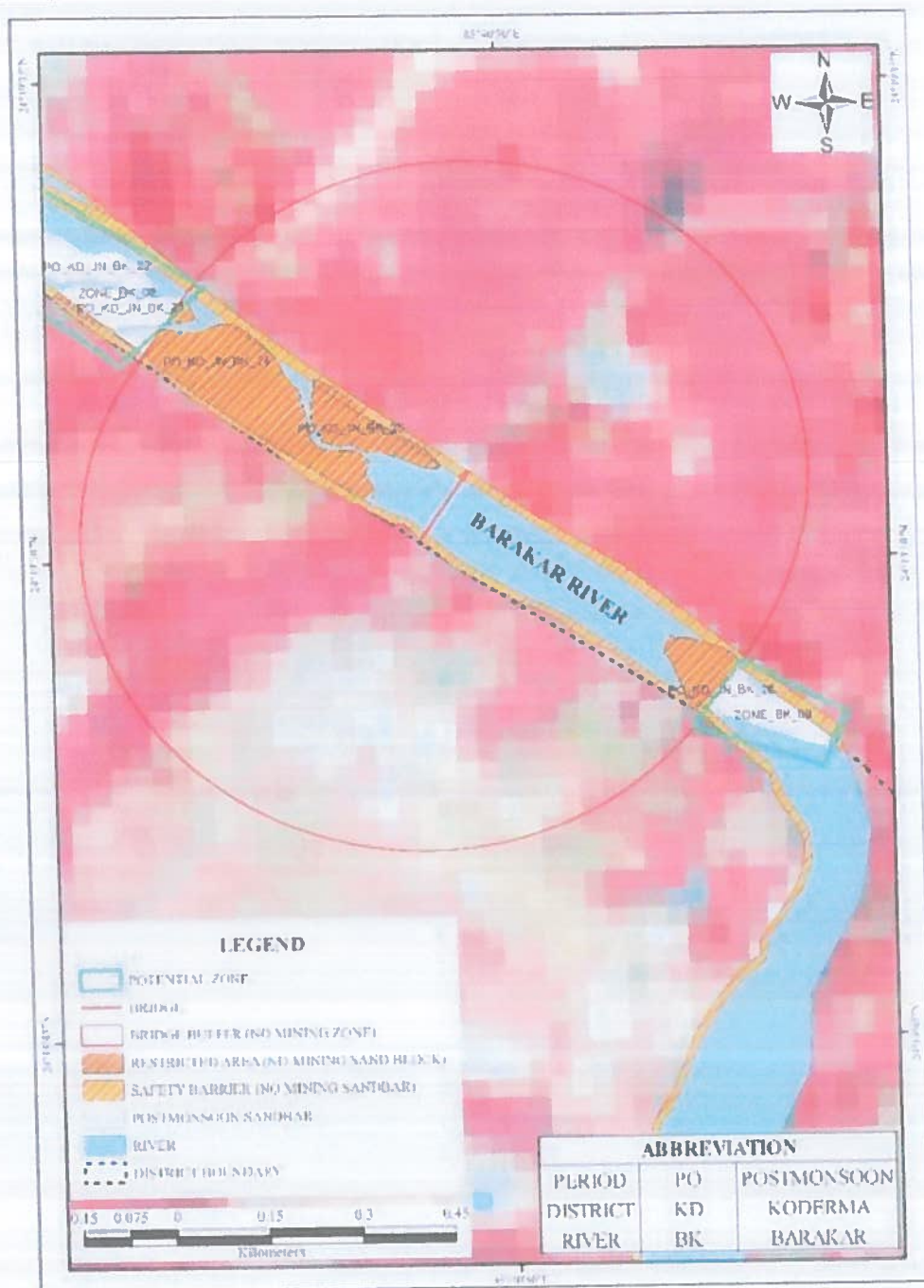


Figure No. 7- 8: A representative map showing no-mining zone demarcated on Barakar River



8 Overview of mining activity in the district

8.1 General overview

The district is very rich in mineral resources. In this district, minerals such as Mica, Quartz, Feldspar, General stone and other precious stone. Sand is found in good quantity. Sand is the basic raw material for its utilization in any development activity throughout the world. Sand is primarily produced from mining operations on the surface of the earth, near the river beds and the sand quarrying below the surface of earth. In the earlier time the mud houses/buildings were constructed with the use of mud. However, with the passage of time, new technique of development activities was started. As such the demand of Minor Mineral started on an increasing trend. In order to meet the requirement of raw material for construction, the extraction of sand carried out manually / semi- mechanized process from the river beds. The production of aggregate area is a function of the availability of natural resources, the size of population, the economy of the area and various developmental and infrastructural works being undertaken in the area like road construction, hydroelectric projects etc. Further, being a low- value, high-volume mineral commodity, the prices are dramatically affected by transportation distances. If the distance increases, the transportation cost may increase much more than the cost of the aggregates.

8.2 Detail of production of sand and other minerals during last years

Details of production of last years are furnished below.

Table 8-1: Detail of production of sand in last years

Sl No.	Year	Production (in CFT)	Dispatch (in CFT)
1	2019-20	278756.000	259006.000
2	2020-21	456600.000	63150.000
3	2021-22	0	0
4	2022-23	0	0



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Table 8-2: Final Proposed Sand Ghats List

S L N O.	Sandbars Code	Leas e Deta ils	Ar ea in Ha.	BLOCK_ NAME	VILLAG E_ NAME	THA NA_ NO	KHA TA NO	SHE ET_ NO	PLO T_ NO	CATEG ORY
1	PO_KD_CD_ DD_01	DU DHI 01	0.3 8	JAINAGA R	JAMKATI	40		1	1	II
				CHAND WARA	KANKO	36	39	1	135	
				CHAND WARA	POKDAN DA	41	72	1	987	
2	PO_KD_CD_ DD_02	DU DHI 02	0.0 9	CHAND WARA	KANKO	36	39	1	135	II
3	PO_KD_CD_ DD_03	DU DHI 03	0.1 6	CHAND WARA	KANKO	36	39	1	135	II
4	PO_KD_CD_ DD_06	DU DHI 04	0.1 8	CHAND WARA	KANKO	36	39	1	135	II
5	PO_KD_CD_ DD_10	DU DHI 05	0.0 8	CHAND WARA	GARAIN DIH	34	86	1	373	II
6	PO_KD_CD_ DD_11	DU DHI 06	0.6 5	CHAND WARA	GARAIN DIH	34	86	1	699	II
				CHAND WARA	GARAIN DIH	34	86	1	373	
				CHAND WARA	MAJHGA ON	29	41	1	799	
7	PO_KD_JN_ AK_03	AKT O 01	0.7 4	JAINAGA R	GOPALD OH	79	63	1	1361	II
				JAINAGA R	KAKARC HOLI	125	182	1	1	
				JAINAGA R	KAKARC HOLI	125		1	307	
8	PO_KD_JN_ AK_04	AKT O 02	0.6 3	JAINAGA R	GOPALD OH	79	63	1	1361	II
				JAINAGA R	KAKARC HOLI	125	182	1	1	
				JAINAGA R	KAKARC HOLI	125		1	307	
				JAINAGA R	SANTH	121	49	1	731	



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9	PO_KD_JN_ AK_05	AKT O 03	3.8 2	JAINAGA R	IRGOBA D	119	44	1	1110	II
				JAINAGA R	IRGOBA D	119	44	1	1479	
				JAINAGA R	SARMAT ANR	139	35	1	1	
10	PO_KD_JN_ AK_06	AKT O 04	0.4 9	JAINAGA R	BEHRAD IH	143	71	1	1586	II
				JAINAGA R	JOGIATI LA	141		1	1700	
				JAINAGA R	JOGIATI LA	141	52	1	753	
				JAINAGA R	JOGIATI LA	141	52	1	1468	
				JAINAGA R	MANDA RIA	142	39	1	843	
11	PO_KD_JN_ AK_07	AKT O 05	0.7 6	JAINAGA R	BEHRAD IH	143	71	1	1586	II
				JAINAGA R	JOGIATI LA	141	52	1	1700	
				JAINAGA R	JOGIATI LA	141	52	1	753	
				JAINAGA R	JOGIATI LA	141	52	1	1468	
12	PO_KD_JN_ AK_08	AKT O 06	0.9 4	JAINAGA R	BEHRAD IH	143	71	1	1586	II
				JAINAGA R	JOGIATI LA	141	52	1	1700	
				JAINAGA R	JOGIATI LA	141	52	1	753	
				JAINAGA R	JOGIATI LA	141	52	1	1468	
				JAINAGA R	TILOKRI	144	117	1	1502	
13	PO_KD_JN_ AK_09	AKT O 07	2.8 6	JAINAGA R	TILOKRI	144	117	1	1502	II
				JAINAGA R	TILOKRI	144	117	2	1502	
				JAINAGA R	JOGIATI LA	141	52	1	1700	
				JAINAGA R	JOGIATI LA	141	52	1	753	
				JAINAGA R	JOGIATI LA	141	52	1	1468	
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				JAINAGA R	JOGIATI LA	141	52	1	753	
				JAINAGA R	JOGIATI LA	141	52	1	1468	

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				JAINAGA R	TILOKRI	144	117	2	1502	
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				JAINAGA R	JOGIATI LA	141	52	1	753	
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				MARKAC HO	BANSDI H	189	4	1	1132	
				MARKAC HO	BANSDI H	189	4	1	2	
				DOMCH ANCH	NIMADI H	190		1	1066	
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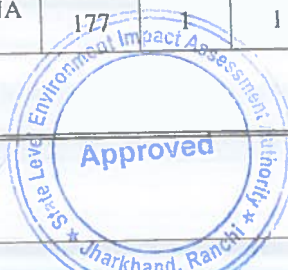
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				JAINAGA R	BADULI A	163	24	1	916	
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				JAINAGA R	BADULI A	163	24	1	916	
				MARKAC HO	CHOPNA DIH	177	1	1	289	



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				MARKAC HO	BELADIH	176	1	1	1	
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				MARKAC HO	DASARO KHURD	173	583	2	1890	



9 Details of revenue generated from Sand Ghats during last years

Revenue generation of last years is furnished below.

Table 9-1: District revenue generation from Sand Ghats in last years

Sl. No.	Year	Royalty (in Rs)
1	2019-20	71000.000
2	2020-21	6,29,983.00
3	2021-22	2,84,000.00
4	2022-23	71000.00



10 Transport (Railway, road)

The district is bounded on the North by the Nawada district of Bihar, on the south by Hazaribagh district of Jharkhand on the east by Giridih district of Jharkhand and on the west by the Gaya district of Bihar. The district of Koderma is well served by a network of roads. Road & Railway communication is the main mode of transportation in this district. The roads are classified as the National Highways, State Highways, Major district roads and other district roads. It is also connected with the interior of the district by metalled road. Koderma town is on the National Highway 31 connecting Ranchi and Patna.

Koderma Railway station is also on the grand chord railway line connecting Calcutta and Delhi. Grand chord railway line was primarily laid for the quick movement of coal from Jharia & Raniganj coalfields. Other 3 lines have been connected with Koderma making it a junction namely Koderma-Hazaribagh-Barkakana-Ranchi line, Koderma-Giridih-Madhupur line and Koderma-Tilaiya line.

The nearest airport is Gaya Airport in Gaya district of Bihar at a distance about 77 Km in WNW direction.

A transportation map of Koderma district is furnished as Figure 10.1 & 10.2



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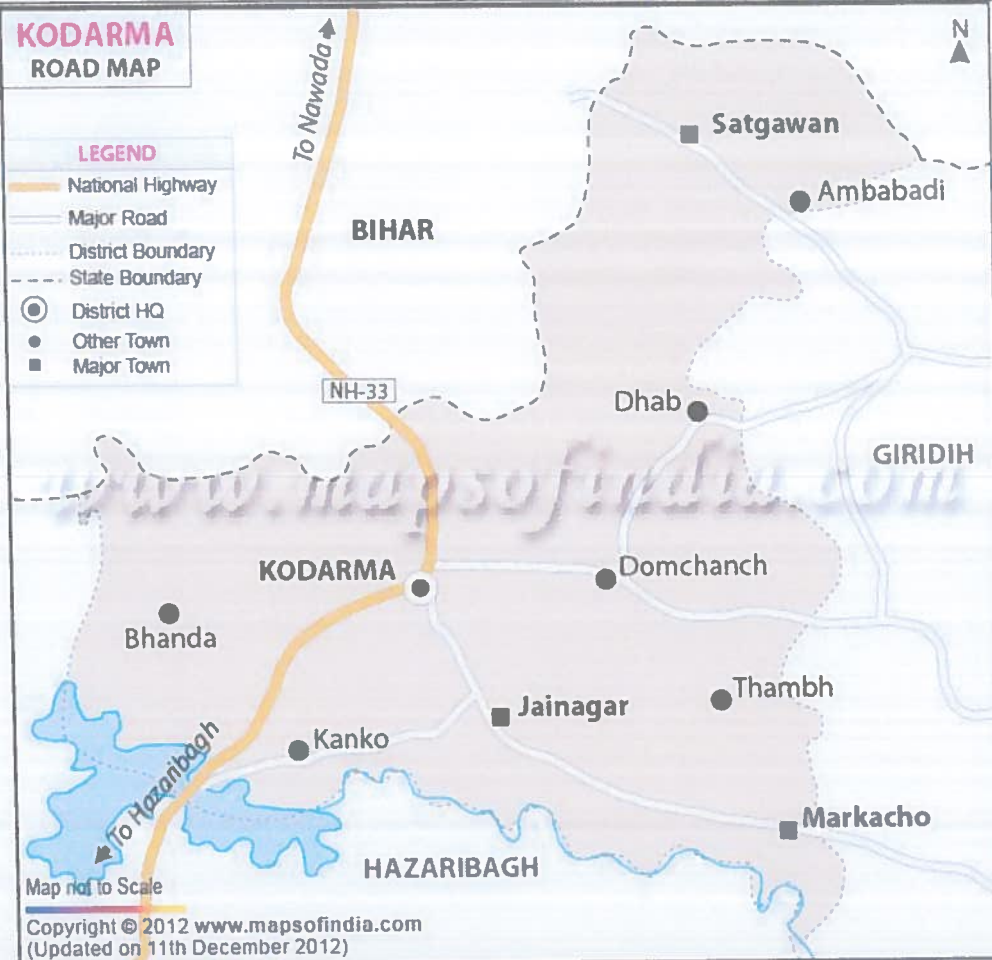


Figure No. 10- 1: Road map of Koderma District
 (Source: <https://www.mapsofindia.com/maps/jharkhand/districts/koderma.htm>)



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Figure No. 10- 2: Railway map of Koderma District

(Source: <https://www.mapsofindia.com/maps/jharkhand/railways/koderma.htm>)



11 Environmental Sensitivity

The Koderma area represents a unique geo- environmental perception. As human population expands, forests are being depleted for the extension of agricultural lands, introduction of new settlements, roadways etc. The growing changes is coming in the wake of urbanization and industrialization leave deep impression on the hill ecosystem; disrupting normal functioning.

Due to unprecedented growth of population during the last few, nature has started reacting sharply to the accumulated human guilt. Soil erosion and its conservation play an important role. Because of the presence of very thin soil cover plays an important role in the socio-economic development.

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

11.1 Sand mining Impact

Another serious environmental problem around the globe in recent years is of Sand 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 increase as population grows also urbanization with time. The high level of demands has offer led to the use of unsustainable sand mining process for speedy urbanisation resulted 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 following in many parts of the country due to rapid urbanisation and industries.

Removal or extraction of too much sand from rivers leads to erosion shrinking of river banks. Deltas can recede due to sand mining. These destructive effects of sand mining ultimately result in loss of fertile land and property. It also destabilized the ground and causes the failure of engineering structures for civilization.

In-stream mining directly alters the channel geometry and bed elevation. By removing sediment from the channel, in-stream material extraction disrupts the preexisting 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 tables 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 of beaches and river bank and makes the ecosystem unstable. If there are popular tourist destination, tourism potential of such areas will lose.

It could be concluding that there has been little in depth research in to the environmental and social also political effect of land use practice and calls for urgent redressed by the competent authority.

11.2 Remedial measure

11.2.1 Sustainable Mining Practices

- The depth of mining in Riverbed shall not exceed 3 meter or water level whichever is less, provided that where the Joint Inspection Committee certifies about excessive deposit or over accumulation of mineral.
- Mining shall be done in layers of 3- 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.

11.2.2 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.

11.2.3 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.



11.2.4 Air Pollution and Dust Management

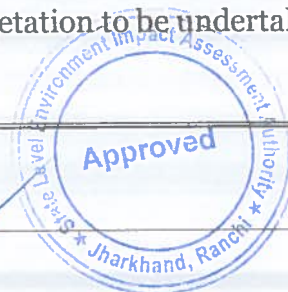
- The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly.
- Air Pollution due to dust, exhaust emission or fumes during mining and processing phase should be controlled and kept in permissible limits specified under 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.

11.2.5 Bio-Diversity Protection

- Restoration of flora affected by mining should be done immediately. Twice the number of trees destroyed by mining to be planted preferably of indigenous species. Each EC holder should plant and maintain for lease period at least 5 trees per hectare in area near lease.
- 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 turtle and bird habitats shall 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.

11.2.6 Management of Instability and Erosion

- Removal, stacking and utilization of top soil in mining are should be ensured. 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.
- Controlled clearance of riparian vegetation to be undertaken.



11.2.7 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.

11.2.8 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.

11.2.9 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.

11.3 Suggested reclamation plan for already mined out areas

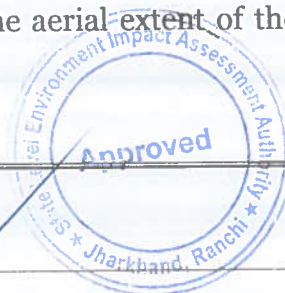
As per statute all mines/quarries are to be properly reclaimed before final closure of the mine. Reclamation plans should include:

a) A baseline survey consisting of existing condition cross-section data. Cross-sections must be surveyed between two monumental endpoints set back from the top of bank, and elevations should be referenced bench mark set;

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) A monitoring plan has to establish.



12 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.

12.1 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 selable. There will be neither any stacking of soil nor creation of OB dumps. The mining activity will carried out up to a maximum depth of 2 m 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 below:

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

12.2 Mitigation measures

12.1.1 Measures to prevent accidents during loading and transportation:

- During the loading truck would 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 takes place 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.



12.2.1 Measures to prevent incidents during Inundation/ Flooding

To minimize the risk of flooding/ inundation following measures will 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.

12.2.2 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.

12.3 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 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.



13 Utilization 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.



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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.



14 Conclusion

1. The replenishment study has been carried out during the preparation of this DSR after analysing datasets of consecutive calendar years.
2. Both field-based survey coupled with satellite imagery study and empirical study were carried out to determine the rate of replenishment in each river of the district.
3. 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.
4. It is suggested to have a periodical review along with field data acquisition during pre and post monsoon periods to record the seasonal variance of the sedimentation rate on annual basis and update this DSR in case of any abnormal findings.

References

- Data from District Mining Office, Koderma
- Old District Survey Report for Sand of Koderma District
- Geology of Bihar and Jharkhand, T.M. Mahavdevan
- National Institute of Disaster Management Report
- Report of Central Ground Water Board, Ministry of Water Resources- State Unit Office, Ranchi,
- <https://Koderma.nic.in/>
- Data from JSAC, Ranchi
- Geology & Mineral Resources of The States of India – Geological Survey of India, Part V – Bihar and Jharkhand
- MSME, Koderma
- District Environment Plan



ANNEXURE- 1
(Compliance Report)

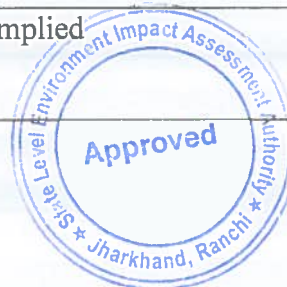


Observation by SEAC Jharkhand

Sl. No.	Observation by SEAC	Reply
1.	The DSR submitted was at a draft stage. The final DSR after approval by Sub divisional Committee, Deputy Commissioner and incorporation of the public comments is to be submitted for appraisal by SEAC.	The observation by sub-divisional committee and public comments are incorporated with this version of DSR.
2.	The final DSR should be signed by all members of the Sub Divisional Committee and the Consultants involved in the preparation of the same. All pages of the DSR should be signed by the authorized officer of the DC/ Sub divisional Committee.	Complied and attached with the report.
3.	The draft DSR submitted is based only on part survey. In the submitted draft DSR the complete area of the river / rivers has not been surveyed, only some selected Ghats / leases have been surveyed. The complete potential area should be demarcated before proposing the sand leases / Ghats as per EMGSM guideline 2020.	All the rivers have been surveyed and them potential sand ghats is submitted with the DSR report in Table 7.4, showing the complete potential of the sand lease as per EMGSM guideline 2020.
4.	The field survey of pre-monsoon period is to be included in final DSR.	Pre-monsoon data has been provided by DMO is attached as annexure K.
5.	The DSR should be placed in the public domain for at least 01 (One) month from the date of publication of the advertisement for obtaining comments of the public. The comments received shall be placed before the concerned Sub Divisional Committee for consideration. The final DSR should be submitted to SEIAA, after incorporation of all replies of the comments received from the public.	The DSR was placed on public portal for one month the screenshot and the paper cutting is attached for reference as annexure G.
6.	Demand and supply of the river bed material through market survey needs to be carried out. In addition to this, future demand for the next five years also needs to be considered to justify the number & area of the Sand Ghat to be included in the final DSR.	The demand and supply gap of the sand in the district is reflected in chapter 2- point no. 2.3 of DSR.
7.	The sand Ghats / leases have not to be proposed on the confluence / meanders / concavities / active channels of the river.	The confluence / meanders / concavities / active channels of the river are not proposed as these locations are environmentally sensitive.
8.	The Khata & Khasra (class / nature of land including "Jungle Jhari") of the lease area should be certified by the concerned Circle Officer (CO) and to be incorporated in the final DSR.	The Khata & Khasra (class / nature of land including "Jungle Jhari") of the lease area was certified and CO Report of the same is attached as annexure F.



9.	The distance sand leases / Ghats from the Forest / Wildlife Protected area / Birds Sanctuary / Wildlife Sanctuary / National Park / Eco Sensitive Zone should be verified and certified by the concerned DFO's of the respective Territorial and Wildlife division.	DFO Report, attached as annexure F.																		
10.	The undertaking regarding presence of aquatic animal in the river in proximity of the proposed sand ghats should be verified and certified by concerned Govt. Departments like Zoological survey of India.	Attached As annexure J																		
11.	The proposed leases / ghats should meet all the siting criteria of State Pollution Control Board / SEIAA.	As per the siting criteria of JSPCB notification no. B-21, Ranchi dated 16/08/13 and also, as per 67th MOM-of- SEIAA Jharkhand following sitting criteria has been complied which is as below: <table><tr><th>Minimum Distance from</th><th>Distance (in meter)</th></tr><tr><td>NH</td><td>100</td></tr><tr><td>SH</td><td>100</td></tr><tr><td>Distance metal road</td><td>50</td></tr><tr><td>Railway line</td><td>100</td></tr><tr><td>River</td><td>100</td></tr><tr><td>Any other river</td><td>100</td></tr><tr><td>Habitation</td><td>200</td></tr><tr><td>Forest /Forest Land</td><td>400*</td></tr></table> *As per SEIAA, Jharkhand MoM minimum distance from forest is 250 m only, which is considered for the DSR.	Minimum Distance from	Distance (in meter)	NH	100	SH	100	Distance metal road	50	Railway line	100	River	100	Any other river	100	Habitation	200	Forest /Forest Land	400*
Minimum Distance from	Distance (in meter)																			
NH	100																			
SH	100																			
Distance metal road	50																			
Railway line	100																			
River	100																			
Any other river	100																			
Habitation	200																			
Forest /Forest Land	400*																			
12.	Clear and high-resolution color satellite images of the proposed potential sand mining area should be submitted with final DSR including the date of photographs / Geocoded location. Details of all such satellite imageries should be including in the final DSR	We have provided ESRI BASE MAP (Pre- Monsoon) having resolution 5 M & FCC-USGS LANDSET 8 (Post-Monsoon) having resolution 30 M in the DSR																		
13.	The table of estimation of sand resources after pre-monsoon and post-monsoon survey should be including in the final DSR.	Complied., please refer table no – 7.4																		
14.	All primary & secondary data should be supported with relevant references and documentary evidences in the final DSR.	Complied																		



15.	Bulk density and specific gravity of the sand should be certified by NABL accredited laboratory.	Attached as annexure D
16.	Concave side of the river should be avoided for identification of sand leases / ghats.	No any sand leases / ghats has been proposed on concave side of the river.
17.	KML files of Existing leases / ghats and proposed leases / ghats should be provided.	Complied
18.	Cluster and contiguous cluster formation should be followed as per EMGSM guidelines, 2020.	Complied
19.	Average length and width of the river should be including and mining should be restricted to 3/4th of the river width and mining should be restricted within 60% of the mineable reserve.	Complied, please refer annexure H
20.	Transportation routes should be defined for the proposed mining sites and duly certified from the competent Authorities.	Transportation routes maps attached as annexure I
21.	All the annexures given in the EMGSM guidelines, 2020 should be filled and including in the final DSR.	All the annexures given in the EMGSM guidelines, 2020 attached as annexure H
22.	Point no. 9.3 of the EMGSM guidelines, 2020 regarding monitoring of mining near inter-district or inter-state boundary should be addressed in the final DSR, if applicable.	Complied, undertaking attached as annexure L
23.	In addition to above any other applicable criteria as required under SSMG, 2016 & EMGSM guidelines, 2020 should be including in the final DSR	Complied
24.	The presentation of the final DSR at the time of appraisal by SEAC should cover all the points of SSMG, 2016 & EMGSM guidelines, 2020.	Complied



ANNEXURE- A

Details of Existing Sand Ghats (As per OLD
DSR)



List of Existing Sand Blocks (Source: Old DSR)

KODERMA SAND GHAT LIST												
Sl No	Name of Ghat	Area HA	Coordinates	Village	Panchayat	Khata no	Plot no	Thana no	Block	District	State	Remarks
1	Badiki Damrahi	1.51	P1 24°20'44.58"N 85°32'6.60"E P2 24°20'44.00"N 85°32'8.76"E P3 24°20'40.88"N 85°32'3.43"E P4 24°20'39.89"N 85°32'5.02"E	Badki Dhamrai	Badki Dhamrai	...	....	131	Chandwara	Koderma	Jharkhand	Nearby Bridge
2	Pathaldiha	16.48	P1 24°24'46.08"N 85°38'06.58"E P2 24°23'16.06"N 85°38'01.05"E	Salaia	Dandadih	....	2732/ 2482/ 2492		Dandadih	Koderma	Jharkhand	No sand deposition found
3	Jamkati	3.08	P1 24°22'20.01"N 85°31'38.09"E P2 24°22'20.01"N 85°31'39.05"E	Jamkati	Jamkati	....	1	....	Jamkati	Koderma	Jharkhand	No sand deposition found
4	Kakarcholi	7.2	P1 24°21'58.08"N 85°37'41.08"E P2 24°21'44.01"N 85°37'52.07"E	Kakarcholi	Kakarcholi/Jainagar	....	4, 662, 663	....	Kakarcholi/Jainagar	Koderma	Jharkhand	No sand deposition found
5	Kanti Murtiya	4.31	P1 24°20'29.88"N 85°32'28.05"E P2 24°20'28.37"N 85°32'32.87"E P3 24°20'19.95"N 85°32'24.33"E P4 24°20'19.93"N 85°32'28.97"E	Murtia	Kanti	....	826/1106	30	Chandwara	Koderma	Jharkhand	Ok.
6	Kuriyawan	0.94	P1 24°19'59.95"N 85°35'28.52"E P2 24°19'58.13"N 85°35'30.81"E P3 24°19'57.33"N 85°35'34.35"E	Kariyanwan	...	31	1664	....	Jainagar	Koderma	Jharkhand	No sand deposition found



			P4 24°19'58.70"N 85°35'37.38"E																
7	Kathara (Marchoi)	9.44	P1 24°44'16.25"N 85°48'16.82"E P2 24°44'18.12"N 85°48'16.44"E P3 24°44'18.12"N 85°48'16.44"E P4 24°44'10.34"N 85°48'35.63"E	Kathara	Marchoi	1	386, 412	71	Satgawana	Koderma	Jharkhand	Modified with Bad Ghat							
8	Katiya	1.39	P1 24°18'32.59"N 85°45'44.58"E P2 24°18'32.01"N 85°45'45.87"E P3 24°18'23.79"N 85°45'45.66"E P4 24°18'23.63"N 85°45'47.24"E	Katia	Katia	46	3880	173	Jainagar	Koderma	Jharkhand	Nearby Bridge							
9	Kattadih	0.8	P1 24°23'26.11"N 85°37'07.75"E P2 24°23'27.27"N 85°36'52.81"E P3 24°23'26.17"N 85°37'15.17"E P4 24°23'27.53"N 85°37'02.30"E	Kattadih	Kattadih	....	....	....	Jainagar	Koderma	Jharkhand	Overlap with Salia Ghat							
10	Brinda Sand	2.26	P1 24°23'36.31"N 85°36'52.09"E P2 24°23'37.30"N 85°36'52.31"E P3 24°23'28.10"N 85°37'02.61"E P4 24°23'27.64"N 85°37'02.07"E	Brinda	....	39	140	300	Koderma	Koderma	Jharkhand	Overlap with Salia Ghat							



11	Masmohan	2.71	P1 24°25'29.18"N 85°43'47.18"E P2 24°25'30.27"N 85°43'47.14"E P3 24°25'19.54"N 85°43'59.65"E P4 24°25'20.11"N 85°44'02.00"E	Masmohana	Masmohana	34	4460	222	Domchanch	Koderma	Jharkhand	Masmohan ghat is coming in Forest Area
12	Saliya	9.95	P1 24°23'35.86"N 85°36'53.88"E P2 24°23'36.49"N 85°36'54.39"E P3 24°23'10.54"N 85°37'48.48"E P4 24°23'11.13"N 85°37'49.39"E	Saliya	Pathaldiha	71	2963/2989	131	Koderma	Koderma	Jharkhand	Modified
13	Sanaldih	2.75	P1 24°45'28.03"N 85°47'49.08"E P2 24°45'08.07"N 85°47'48.05"E	Samhaldih	Samaldih	0	0	0	Satgawan	Koderma	Jharkhand	Modified with Naraidih Ghat
14	Tamai	4.55	P1 24°20'28.01"N 85°33'48.81"E P2 24°20'26.58"N 85°33'48.19"E P3 24°20'23.86"N 85°33'58.51"E P4 24°20'22.28"N 85°33'58.51"E	Tamai	Tamai	54	2248	76.50	Jainagar	Koderma	Jharkhand	No sand deposition found
15	Tehro	4.91	P1 24°44'10.60"N 85°48'32.00"E P2 24°44'11.78"N 85°48'39.12"E P3 24°43'51.87"N 85°48'40.55"E P4 24°43'52.84"N 85°48'45.53"E	Tehro	Tehro	...	...	...	Satgawan	Koderma	Jharkhand	Modified with Kairi Nawadih



16	Tetran	4.77	P1 24°20'19.90"N 85°45'27.33"E P2 24°20'22.90"N 85°45'28.72"E P3 24°20'11.21"N 85°45'43.48"E P4 24°20'11.81"N 85°45'46.26"E	Tetran	Tetran	37	1559	165	Jainagar	Koderma	Jharkhand	Tetran ghat is overlapping with Bridge
17	Tilokari	2.02	P1 24°19'14.98"N 85°40'41.39"E P2 24°19'16.70"N 85°40'42.30"E P3 24°19'04.04"N 85°40'57.55"E P4 24°19'06.06"N 85°40'59.43"E	Tilokari	Tilokari	117	3568	144	Jainagar	Koderma	Jharkhand	Tilokari ghat is overlapping with Bridge
18	Dusharo Khurd	3.42	P1 24°19'36.26"N 85°46'6.10"E P2 24°19'38.55"N 85°46'7.53"E P3 24°19'17.13"N 85°46'8.67"E P4 24°19'16.11"N 85°46'11.81"E P1 24°24'12.33"N 85°44'32.71"E P2 24°24'13.09"N 85°44'34.05"E P3 24°24'48.64"N 85°44'38.61"E P4 24°23'48.40"N 85°44'39.78"E	Dusharo Khurd	Dusharo Khurd	583	334	173	Markacho	Koderma	Jharkhand	Dushro Khurd ghat is overlapping with Bridge
19	Kundi Dhanwar	3.73		Kundi Dhanwar	Kundi Dhanwar	3	1102	228	Domchanch	Koderma	Jharkhand	Kundi Dhanwar ghat is coming in Forest Area



20	Kolgrama	1.65	P1 24°24'01.66"N 85°38'44.56"E P2 24°24'01.06"N 85°38'44.37"E P3 24°24'01.06"N 85°38'47.02"E P4 24°24'00.65"N 85°38'47.00"E	Kolgarma	Kolgarma	79	2869	303	Koderma	Koderma	Jharkhand	Kolgarma ghat is coming in Forest Area
21	Kanti, (Gauri River)	4.31			Kanti					Koderma	Jharkhand	
22	Lathbedhwa & Katharatan d(Barakar River)	4.0							Jainagar	Koderma	Jharkhand	

2

2



ANNEXURE- B
(Committee Involved in DSR)



उपायुक्त -सह- जिला दण्डाधिकारी का कार्यालय, कोडरमा।

(खनन शाखा)

आदेश

माननीय उच्चतम न्यायालय, नई दिल्ली द्वारा Civil Appeal No. 3661-3662/2020 State of Bihar & Others Vrs Pawan Kumar & Others के मामले में पारित आदेश दिनांक- 10.11.2021, Sustainable Sand Mining Guidelines, 2016 तथा Enforcement and Monitoring Guidelines for Sand Mining, 2020 के तहत NABET से मान्यता प्राप्त Consultant द्वारा बालू खनिज का DSR तैयार किया जाना है।

कोडरमा जिला हेतु बालू का DSR खान एवं भूतत्व विभाग, झारखण्ड, राँची से प्राप्त कार्यादेश के आलोक में M/S Rian Enviro Private Limited द्वारा तैयार कर सहायक निदेशक, भूतत्व, जिला भूतात्विक कार्यालय, कोडरमा के माध्यम से उपलब्ध कराया गया है। उक्त DSR (Draft) को उपरोक्त Guidelines के तहत जिले के अधिकारी वेबसाइट पर निर्धारित अवधि के लिए अपलोड भी किया गया है।

उल्लेखनीय है कि उक्त DSR (Draft) को SEIAA, Ranchi को अनुमोदनार्थ प्रेषित किए जाने के पूर्व जिला स्तर पर समिति द्वारा DSR की Vetting की जानी है। अतएव अग्रेतर आवश्यक कार्रवाई किये जाने हेतु अधोहस्ताक्षरी की अध्यक्षता में निम्नवत समिति का गठन किया जाता है :-

- I. वन प्रमण्डल पदाधिकारी, कोडरमा।
- II. अनुमण्डल पदाधिकारी, कोडरमा।
- III. जिला खनन पदाधिकारी, कोडरमा।
- IV. सहायक निदेशक, भूतत्व, जिला भूतात्विक कार्यालय, कोडरमा।
- V. कार्यपालक अभियंता, लघु सिंचाई प्रमण्डल, कोडरमा।
- VI. क्षेत्रीय पदाधिकारी, झारखण्ड राज्य प्रदूषण नियंत्रण पर्वद, हजारीबाग।

अतएव इस आदेश पत्र के साथ DSR (Draft) संलग्न करते हुए निदेश दिया जाता है कि उक्त के निमित्त आवश्यक सुझाव/मंतव्य/संशोधन के साथ समिति की बैठक दिनांक- 29.11.22 को समय 4.00 PM बजे भाग लेने की कृपा की जाय। ताकि उक्त बैठक में DSR को अंतिम रूप देकर SEIAA, Ranchi को अनुमोदनार्थ भेजा जा सके।

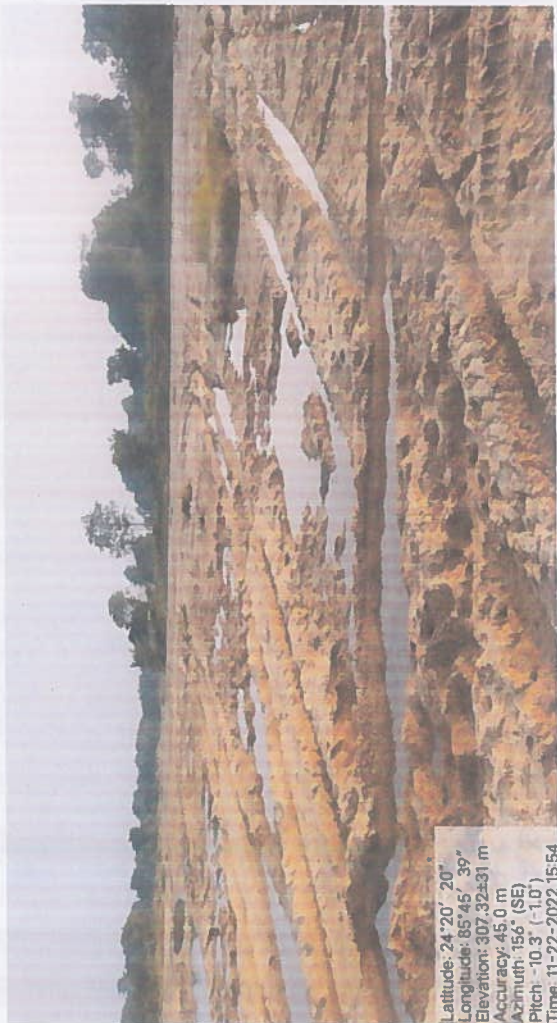
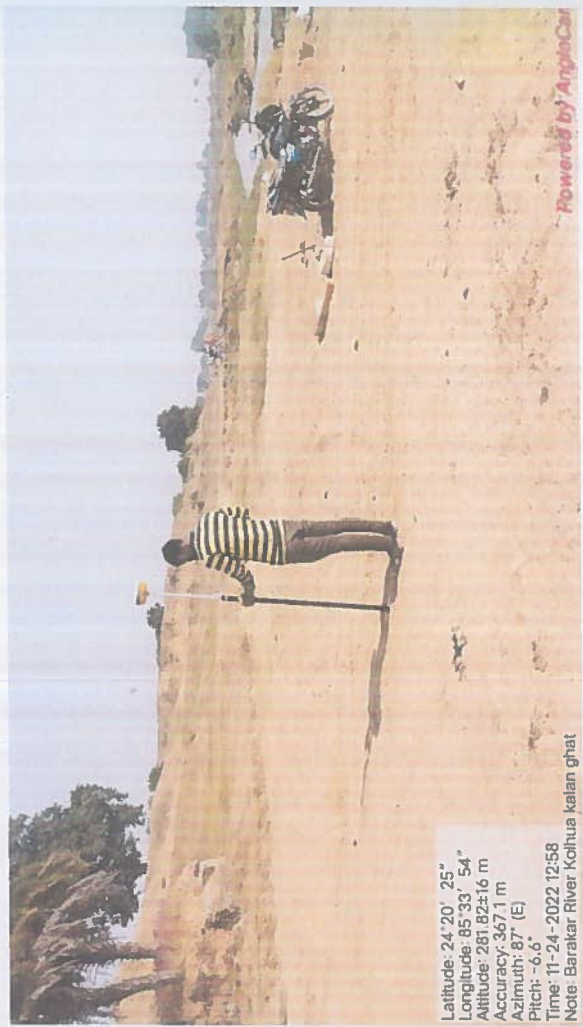
उपायुक्त,
कोडरमा।

ज्ञापांक- 1763 /एम0, कोडरमा, दिनांक- 19/11/22

प्रतिलिपि:- वन प्रमण्डल पदाधिकारी, कोडरमा/अनुमण्डल पदाधिकारी, कोडरमा/जिला खनन पदाधिकारी, कोडरमा/सहायक निदेशक, भूतत्व, जिला भूतात्विक कार्यालय, कोडरमा/कार्यपालक अभियंता, लघु सिंचाई प्रमण्डल, कोडरमा/क्षेत्रीय पदाधिकारी, झारखण्ड राज्य प्रदूषण नियंत्रण पर्वद, हजारीबाग को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।



ANNEXURE- C
(Photographs of the site Survey)



State Level Environment Impact
 Approve

Committee Visit



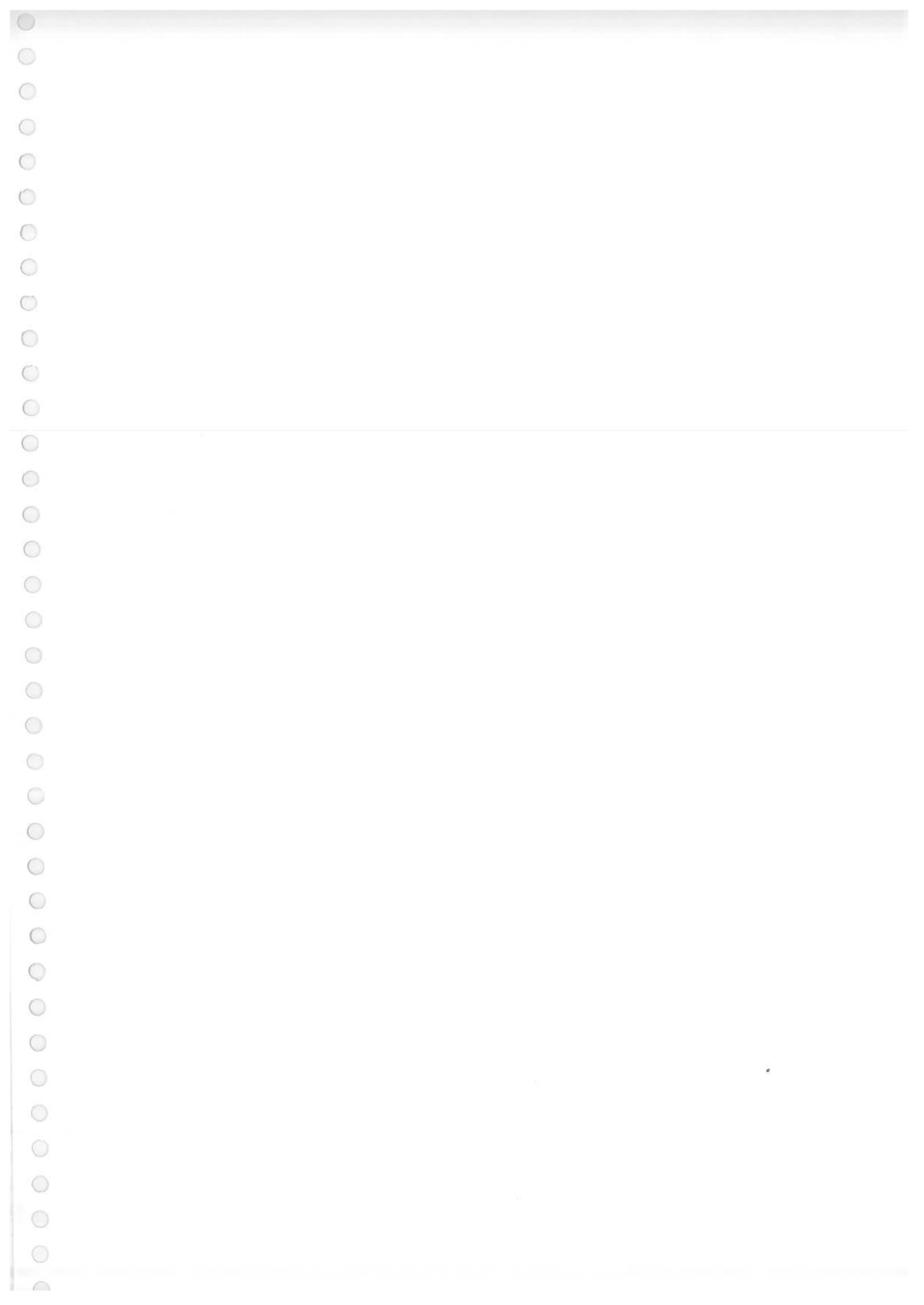


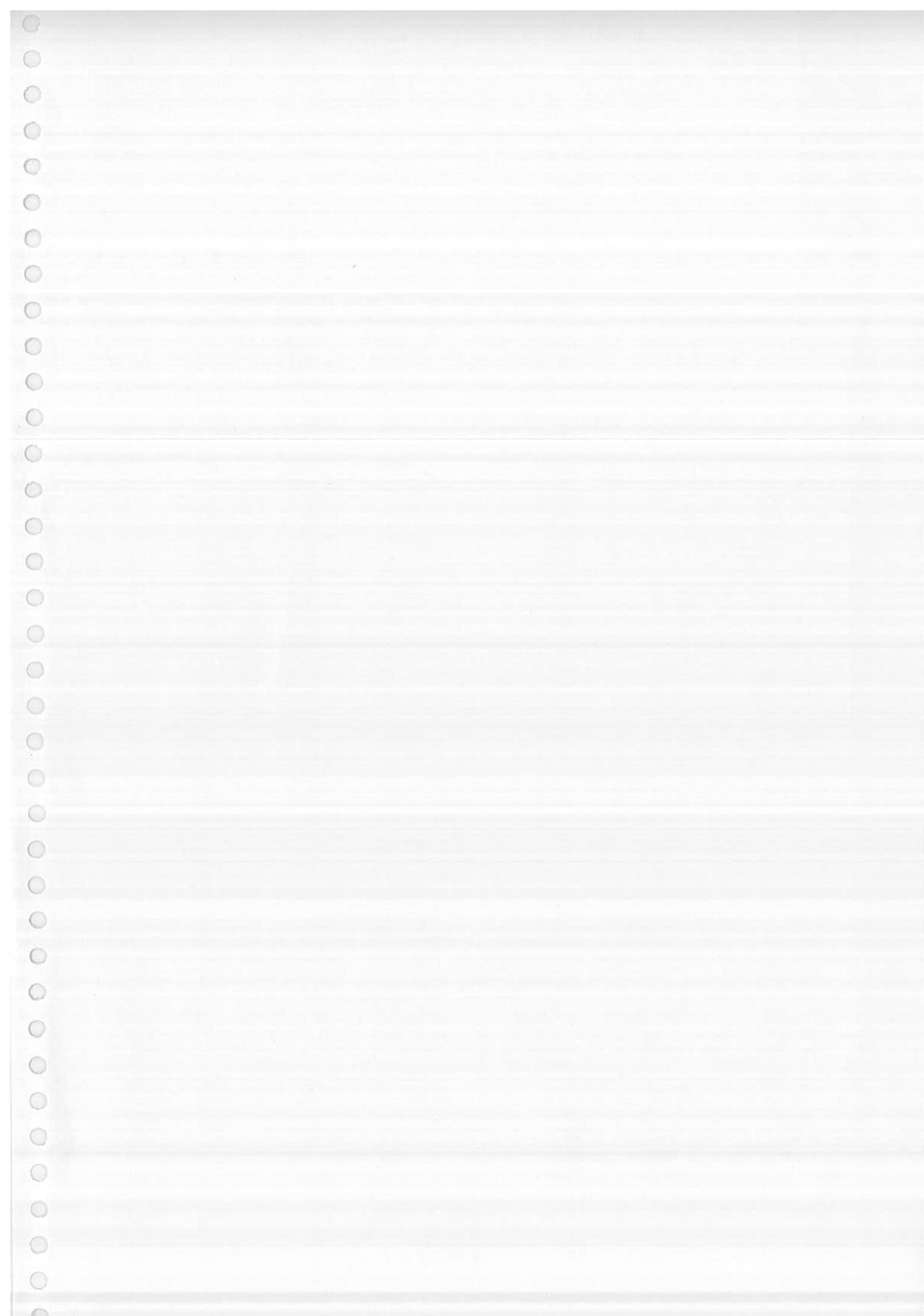
Approved

Environmental Impact Assessment

Barhand, R

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ANNEXURE- D

(Sp. Gravity & Bulk Density data of sand from
NABL lab)



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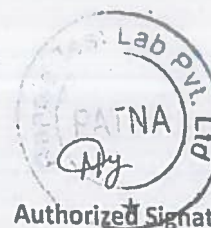


TC-10214

Block-A, Raut City, Commercial Complex, Garikhana, Khagaul, Near Radiant International School, Patna - 801105 (Bihar)

To,		ULR No. : TC1021422000000187F	
District Mining Officer, Koderma		Date of Receipt: 26.11.2022	
		Date of Testing: 27.11.2022- 29.11.2022	
		Date of Report : 29.11.2022	
Description of Sample : Sand			
Vill: Sihsa ghat		River: Sakri	
Block: Satgawan		District: Koderma	
Ref No: Nil Dated: 26.11.2022			
SL. No.	TEST PARAMETERS	TEST METHOD	Results
1	Specific Gravity	IS 2720 (P-3)	2.58
2	Bulk density , kg/l	IS 2386 (P-3)	1.55

End of Test Report



Authorized Signatory



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Block-A, Raut City, Commercial Complex, Garlkhana, Khagaul, Near Radiant International School, Patna - 801105 (Bihar)

To,		ULR No. : TC1021422000000188F	
District Mining Officer, Koderma		Date of Receipt: 26.11.2022	
		Date of Testing: 27.11.2022-29.11.2022	
		Date of Report : 29.11.2022	
Description of Sample : Sand			
Vill: Bad ghat		River: Sakri	
Block: Satgawan		District: Koderma	
Ref No: Nil		Dated: 26.11.2022	
SL. No.	TEST PARAMETERS	TEST METHOD	Results
1	Specific Gravity	IS 2720 (P-3)	2.60
2	Bulk density , kg/l	IS 2386 (P-3)	1.54

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Block-A, Raut City, Commercial Complex, Garikhana, Khagaul, Near Radiant International School, Patna - 801105 (Bihar)

To,	ULR No. : TC1021422000000189F		
District Mining Officer, Koderma	Date of Receipt: 26.11.2022		
	Date of Testing: 27.11.2022-29.11.2022		
	Date of Report : 29.11.2022		
Description of Sample : Sand			
Vill: Tilokari Ghat	River: Barakar		
Block: Jainagar	District: Koderma		
Ref No: Nil	Dated: 26.11.2022		
SL. No.	TEST PARAMETERS	TEST METHOD	Results
1	Specific Gravity	IS 2720 (P-3)	2.62
2	Bulk density , kg/l	IS 2386 (P-3)	1.57

End of Test Report



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Block-A, Raut City, Commercial Complex, Garikhana, Khagaul, Near Radiant International School, Patna - 801105 (Bihar)

To,		ULR No. : TC1021422000000190F	
District Mining Officer, Koderma		Date of Receipt: 26.11.2022	
		Date of Testing: 27.11.2022-29.11.2022	
		Date of Report : 29.11.2022	
Description of Sample : Sand			
Vill: Jogiatila		River: Akto	
Block: Jainagar		District: Koderma	
Ref No: Nil Dated: 26.11.2022			
SL. No.	TEST PARAMETERS	TEST METHOD	Results
1	Specific Gravity	IS 2720 (P-3)	2.62
2	Bulk density , kg/l	IS 2386 (P-3)	1.57

End of Test Report



Authorized Signatory



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2. This report will not be valid for judicial Purpose.
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5. Report refers to the sample received by Rappid Test Lab Pvt. Ltd. unless mentioned otherwise.



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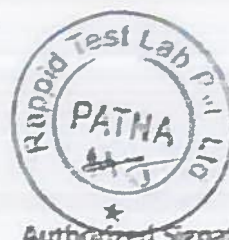
Our Dream is Quality only....



Block-A, Raut City, Commercial Complex, Garikhana, Khagadi, Near Radiant International School, Patna - 801105 (Bihar)

To, District Mining Officer, Koderma		URL No. : TC1021472055551194 F Date of Receipt: 26.11.2022 Date of Testing: 27.11.2022 to 29.11.2022 Date of Report : 29.11.2022	
Description of Sample : Sand			
Vill: Dasra Khurd		Prier: Yes	
Block: Jainagar		District: Koderma	
Ref No: Nil		Dated: 26.11.2022	
SL. No.	TEST PARAMETERS	TEST METHOD	Results
1	Specific Gravity	IS 2720 (P-3)	2.62
2	Bulk density, kg/l	IS 2326 (P-3)	1.57

"End of Test Report"



Authorized Signatory



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2. This report will not be valid for judicial Purpose.
3. The above results are related only to the test performed on the sample, Endorsement of the product is neither inferred nor implied,
4. Total liability of our Test Lab is limited to the invoiced amount.,
5. Report refers to the sample received by Rappid Test Lab Pvt. Ltd. unless mentioned otherwise.



RAPPID TEST LAB PVT. LTD.

Our Dream is Quality only....



Block-A, Raut City, Commercial Complex, Garikhana, Khagaul, Near Radiant International School, Patna - 801105 (Bihar)

TEST REPORT

Issued to,		ULR No. : TC1021422000000245F	
District Mining Officer, Koderma (Jharkhand)		Date of Receipt: 30.11.2022	
		Date of Testing: 30.11.2022-01.12.2022	
		Date of Report : 01.12.2022	
Description of Sample : Sand		River : Dudhi	
Block : Chandwara		District:- Koderma	
Village: Pokdanda			
Ref No: Nil		Dated: 29.11.2022	
SL. No.	TEST PARAMETERS	TEST METHOD	Results
1	Specific Gravity	IS 2386 (P-3)	2.59
2	Bulk density , gm/cc	IS 2386 (P-3)	1.55

End of Test Report



Authorized Signatory



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RAPPID TEST LAB PVT. LTD.

Our Dream is Quality only....



Block-A, Raut City, Commercial Complex, Garikhana, Khagaul, Near Radiant International School, Patna - 801105 (Bihar)

TEST REPORT

Issued to, District Mining Officer, Koderma (Jharkhand)	ULR No. : TC1021422000000246F Date of Receipt: 30.11.2022 Date of Testing: 30.11.2022-01.12.2022 Date of Report : 01.12.2022		
Description of Sample : Sand	River : Dhanarjay		
Block : Koderma	District:- Koderma		
Village: Karharia			
Ref No: Nil	Dated: 29.11.2022		
SL. No.	TEST PARAMETERS	TEST METHOD	Results
1	Specific Gravity	IS 2386 (P-3)	2.60
2	Bulk density , gm/cc	IS 2386 (P-3)	1.55

End of Test Report



Authorized Signatory



Terms & Conditions:

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THEORY OF THE EARTH

CHAPTER I. OF THE ORIGIN OF THE EARTH.

§ 1. OF THE ORIGIN OF THE EARTH.

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§ 13. OF THE ORIGIN OF THE EARTH.

§ 14. OF THE ORIGIN OF THE EARTH.

ANNEXURE- E
(Proposed Ghat Coordinate)

ANNEXURE - E

(Proposed City Council)

PROPOSED GHAT COORDINATES KODERMA

SL NO.	SANDBARS CODE	LEASE DETAILS	HA.	POINT NO	LATITUDE	LONGITUDE	BLOCK_NAME	VILLAGE NAME	THANA NO.	KHATA NO.	SHEET NO	PLOT NO
DUDHI RIVER												
1	PO_KD_CD_DD_01	DUDHI 01	0.38	1	24° 22' 14.773" N	85° 31' 35.795" E	JAINAGAR	JAMKATI	40		1	1
				2	24° 22' 14.645" N	85° 31' 34.992" E	CHANDWARA	KANKO	36	39	1	135
				3	24° 22' 14.744" N	85° 31' 35.073" E	CHANDWARA	POKDANDA	41	72	1	987
				4	24° 22' 14.919" N	85° 31' 35.331" E						
				5	24° 22' 15.495" N	85° 31' 36.265" E						
				6	24° 22' 16.133" N	85° 31' 37.152" E						
				7	24° 22' 16.769" N	85° 31' 38.093" E						
				8	24° 22' 17.166" N	85° 31' 38.532" E						
				9	24° 22' 17.943" N	85° 31' 38.988" E						
				10	24° 22' 18.141" N	85° 31' 39.163" E						
				11	24° 22' 18.955" N	85° 31' 39.431" E						
				12	24° 22' 19.445" N	85° 31' 39.595" E						
				13	24° 22' 19.375" N	85° 31' 39.992" E						
				14	24° 22' 19.222" N	85° 31' 40.209" E						
				15	24° 22' 18.901" N	85° 31' 40.339" E						
				16	24° 22' 18.586" N	85° 31' 40.352" E						
				17	24° 22' 18.305" N	85° 31' 40.303" E						
				18	24° 22' 17.279" N	85° 31' 39.888" E						
				19	24° 22' 17.060" N	85° 31' 39.563" E						
				20	24° 22' 16.550" N	85° 31' 38.653" E						
				21	24° 22' 15.670" N	85° 31' 37.275" E						
				22	24° 22' 14.964" N	85° 31' 36.079" E						
				23	24° 22' 14.791" N	85° 31' 35.843" E						



2	PO_KD_CD_ DD_02	DUDHI 02	0.09	1	24° 22' 13.796" N	85° 31' 34.489" E	CHANDWARA	KANKO	36	39	1	135
				2	24° 22' 12.809" N	85° 31' 32.934" E						
				3	24° 22' 13.205" N	85° 31' 33.047" E						
				4	24° 22' 13.542" N	85° 31' 33.368" E						
				5	24° 22' 13.977" N	85° 31' 34.005" E						
				6	24° 22' 14.287" N	85° 31' 34.385" E						
				7	24° 22' 14.332" N	85° 31' 34.468" E						
				8	24° 22' 14.347" N	85° 31' 34.491" E						
				9	24° 22' 14.516" N	85° 31' 34.864" E						
				10	24° 22' 14.552" N	85° 31' 35.482" E						
				11	24° 22' 14.559" N	85° 31' 35.527" E						
3	PO_KD_CD_ DD_03	DUDHI 03	0.16	1	24° 22' 11.250" N	85° 31' 29.916" E	CHANDWARA	KANKO	36	39	1	135
				2	24° 22' 11.216" N	85° 31' 29.744" E						
				3	24° 22' 12.165" N	85° 31' 30.880" E						
				4	24° 22' 13.253" N	85° 31' 32.246" E						
				5	24° 22' 13.502" N	85° 31' 32.808" E						
				6	24° 22' 13.259" N	85° 31' 32.857" E						
				7	24° 22' 12.838" N	85° 31' 32.765" E						
				8	24° 22' 12.558" N	85° 31' 32.537" E						
				9	24° 22' 12.458" N	85° 31' 32.380" E						
				10	24° 22' 11.466" N	85° 31' 30.638" E						
				11	24° 22' 11.415" N	85° 31' 30.601" E						
				12	24° 22' 11.347" N	85° 31' 30.398" E						
				13	24° 22' 11.340" N	85° 31' 30.376" E						
4	PO_KD_CD_ DD_06	DUDHI 04	0.18	1	24° 22' 5.332" N	85° 31' 31.901" E	CHANDWARA	KANKO	36	39	1	135
				2	24° 22' 5.083" N	85° 31' 31.426" E						



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5	PO_KD_CD_ DD 10	DUDHI 05	0.08	3	24° 22' 5.099" N	85° 31' 31.250" E						
				4	24° 22' 5.301" N	85° 31' 30.518" E						
				5	24° 22' 5.607" N	85° 31' 29.365" E						
				6	24° 22' 5.689" N	85° 31' 29.247" E						
				7	24° 22' 6.023" N	85° 31' 28.980" E						
				8	24° 22' 6.398" N	85° 31' 28.944" E						
				9	24° 22' 6.925" N	85° 31' 29.064" E						
				10	24° 22' 6.182" N	85° 31' 29.531" E						
				11	24° 22' 6.031" N	85° 31' 30.363" E						
				12	24° 22' 5.638" N	85° 31' 32.076" E						
				13	24° 22' 5.574" N	85° 31' 32.495" E						
				14	24° 22' 5.565" N	85° 31' 32.483" E						
				1	24° 21' 6.938" N	85° 31' 51.970" E	CHANDWARA	GARAINDIH	34	86	1	373
				2	24° 21' 6.395" N	85° 31' 51.626" E						
				3	24° 21' 6.587" N	85° 31' 51.615" E						
				4	24° 21' 7.719" N	85° 31' 51.725" E						
				5	24° 21' 8.227" N	85° 31' 51.840" E						
				6	24° 21' 8.361" N	85° 31' 51.996" E						
				7	24° 21' 8.609" N	85° 31' 52.273" E						
				8	24° 21' 8.862" N	85° 31' 52.543" E						
				9	24° 21' 8.997" N	85° 31' 52.681" E						
				10	24° 21' 8.891" N	85° 31' 52.677" E						
				11	24° 21' 8.312" N	85° 31' 52.489" E						
				12	24° 21' 7.913" N	85° 31' 52.229" E						
				13	24° 21' 7.487" N	85° 31' 52.094" E						
6	PO_KD_CD_ DD 11	DUDHI 06	0.65	1	24° 21' 0.430" N	85° 31' 58.954" E	CHANDWARA	GARAINDIH	34	86	1	699

PO_KD_CD	DD_11
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				3	24° 21' 35.588" N	85° 38' 10.674" E	JAINAGAR	KAKARCHOLI	125		1	307
				4	24° 21' 36.500" N	85° 38' 8.926" E	JAINAGAR	SANTH	121	49	1	731
				5	24° 21' 37.631" N	85° 38' 6.947" E						
				6	24° 21' 38.070" N	85° 38' 6.141" E						
				7	24° 21' 38.147" N	85° 38' 6.163" E						
				8	24° 21' 38.576" N	85° 38' 7.042" E						
				9	24° 21' 38.769" N	85° 38' 8.347" E						
				10	24° 21' 37.982" N	85° 38' 9.401" E						
				11	24° 21' 36.420" N	85° 38' 11.110" E						
				1	24° 20' 46.718" N	85° 40' 7.849" E	JAINAGAR	IRGOBAD	119	44	1	1110
9	PO_KD_JN_AK_05	AKTO 03	3.82	2	24° 20' 45.228" N	85° 40' 9.770" E	JAINAGAR	IRGOBAD	119	44	1	1479
				3	24° 20' 45.528" N	85° 40' 8.628" E	JAINAGAR	SARMATANR	139	35	1	1
				4	24° 20' 46.080" N	85° 40' 7.189" E						
				5	24° 20' 46.504" N	85° 40' 6.071" E						
				6	24° 20' 46.967" N	85° 40' 4.761" E						
				7	24° 20' 47.468" N	85° 40' 3.566" E						
				8	24° 20' 47.841" N	85° 40' 2.589" E						
				9	24° 20' 48.072" N	85° 40' 1.664" E						
				10	24° 20' 48.380" N	85° 40' 0.289" E						
				11	24° 20' 48.578" N	85° 39' 59.612" E						
				12	24° 20' 49.407" N	85° 39' 58.191" E						
				13	24° 20' 50.358" N	85° 39' 56.812" E						
				14	24° 20' 52.187" N	85° 39' 54.488" E						
				15	24° 20' 54.229" N	85° 39' 51.496" E						
				16	24° 20' 55.464" N	85° 39' 52.802" E						
				17	24° 20' 55.141" N	85° 39' 53.568" E						
				18	24° 20' 54.950" N	85° 39' 53.987" E						



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11	PO KD JN AK 07	AKTO 05	0.76	1	24° 20' 8.179" N	85° 40' 29.777" E	JAINAGAR	BEHRADIH	143	71	1	1586
				2	24° 20' 8.140" N	85° 40' 30.556" E	JAINAGAR	JOGIATILA	141	52	1	1700
				3	24° 20' 8.193" N	85° 40' 31.253" E	JAINAGAR	JOGIATILA	141	52	1	753
				4	24° 20' 7.402" N	85° 40' 31.837" E	JAINAGAR	JOGIATILA	141	52	1	1468
				5	24° 20' 6.870" N	85° 40' 32.306" E						
				6	24° 20' 6.374" N	85° 40' 32.720" E						
				7	24° 20' 5.707" N	85° 40' 33.331" E						
				8	24° 20' 5.063" N	85° 40' 33.580" E						
				9	24° 20' 4.227" N	85° 40' 34.311" E						
				10	24° 20' 3.867" N	85° 40' 34.553" E						
				11	24° 20' 4.000" N	85° 40' 34.198" E						
				12	24° 20' 4.526" N	85° 40' 33.106" E						
				13	24° 20' 5.117" N	85° 40' 32.104" E						
				14	24° 20' 5.554" N	85° 40' 31.461" E						
				15	24° 20' 6.171" N	85° 40' 30.420" E						
				16	24° 20' 6.711" N	85° 40' 29.649" E						
				17	24° 20' 7.841" N	85° 40' 28.750" E						
				18	24° 20' 8.546" N	85° 40' 28.210" E						
				19	24° 20' 8.347" N	85° 40' 28.880" E						
12	PO KD JN AK 08	AKTO 06	0.94	1	24° 20' 0.783" N	85° 40' 38.782" E	JAINAGAR	BEHRADIH	143	71	1	1586
				2	24° 20' 0.652" N	85° 40' 38.677" E	JAINAGAR	JOGIATILA	141	52	1	1700
				3	24° 20' 1.225" N	85° 40' 38.386" E	JAINAGAR	JOGIATILA	141	52	1	753
				4	24° 20' 1.646" N	85° 40' 38.092" E	JAINAGAR	JOGIATILA	141	52	1	1468
				5	24° 20' 2.070" N	85° 40' 37.854" E	JAINAGAR	TILOKRI	144	117	1	1502
				6	24° 20' 2.438" N	85° 40' 37.576" E						
				7	24° 20' 2.685" N	85° 40' 37.256" E						



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5	24° 19' 49.251" N	85° 40' 24.899" E							
6	24° 19' 49.688" N	85° 40' 25.637" E							
7	24° 19' 49.704" N	85° 40' 25.694" E							
8	24° 19' 50.000" N	85° 40' 26.832" E							
9	24° 19' 50.280" N	85° 40' 28.140" E							
10	24° 19' 50.480" N	85° 40' 28.427" E							
11	24° 19' 50.600" N	85° 40' 28.950" E							
12	24° 19' 50.725" N	85° 40' 29.528" E							
13	24° 19' 49.694" N	85° 40' 30.738" E							
14	24° 19' 49.631" N	85° 40' 31.960" E							
15	24° 19' 49.602" N	85° 40' 32.302" E							
16	24° 19' 49.371" N	85° 40' 32.264" E							
17	24° 19' 49.033" N	85° 40' 31.433" E							
18	24° 19' 48.352" N	85° 40' 29.699" E							
19	24° 19' 47.336" N	85° 40' 27.746" E							
20	24° 19' 46.501" N	85° 40' 23.788" E							
1	24° 19' 32.748" N	85° 40' 24.231" E	JAINGAR	JOGIATILA	141	52	1	1700	
2	24° 19' 32.707" N	85° 40' 24.261" E	JAINGAR	JOGIATILA	141	52	1	753	
3	24° 19' 32.948" N	85° 40' 22.473" E	JAINGAR	JOGIATILA	141	52	1	1468	
4	24° 19' 33.006" N	85° 40' 22.361" E	JAINGAR	TILOKRI	144	117	2	1502	
5	24° 19' 33.725" N	85° 40' 21.186" E							
6	24° 19' 33.856" N	85° 40' 21.053" E							
7	24° 19' 34.111" N	85° 40' 20.680" E							
8	24° 19' 35.438" N	85° 40' 19.756" E							
9	24° 19' 37.247" N	85° 40' 19.025" E							
10	24° 19' 38.168" N	85° 40' 18.525" E							
11	24° 19' 38.404" N	85° 40' 18.642" E							



12	24° 19' 38.730"	85° 40' 19.942" E
13	24° 19' 39.059"	85° 40' 19.942" E
14	24° 19' 39.391"	85° 40' 19.942" E
15	24° 19' 39.725"	85° 40' 19.942" E
16	24° 19' 40.062"	85° 40' 19.942" E
17	24° 19' 40.401"	85° 40' 19.942" E
18	24° 19' 40.743"	85° 40' 19.942" E
19	24° 19' 41.086"	85° 40' 19.942" E
20	24° 19' 41.431"	85° 40' 19.942" E
21	24° 19' 41.775"	85° 40' 19.942" E
22	24° 19' 42.117"	85° 40' 19.942" E
23	24° 19' 42.462"	85° 40' 19.942" E
24	24° 19' 41' 65" N	85° 40' 20.141" E
25	24° 19' 41' 11" N	85° 40' 20.141" E
26	24° 19' 41' 62" N	85° 40' 21.216" E
27	24° 19' 41' 7.367" N	85° 40' 21.661" E
28	24° 19' 41' 5.014" N	85° 40' 22.411" E
29	24° 19' 41' 41.695" N	85° 40' 20.141" E
30	24° 19' 41' 44.949" N	85° 40' 20.144" E
31	24° 19' 41' 9' 45.303" N	85° 40' 20.140" E
32	24° 19' 41' 5.658" N	85° 40' 20.128" E
33	24° 19' 41' 4' 012" N	85° 40' 20.106" E
34	24° 19' 41' 1' 65" N	85° 40' 20.077" E
35	24° 19' 41' 1' 3" N	85° 40' 20.039" E
36	24° 19' 41' 1' 19' 4" N	85° 40' 19.993" E
37	24° 19' 41' 1' 19' 4" N	85° 40' 19.942" E



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					5	24° 21' 40.799" N	85° 44' 33.125" E	MARKACHO	BANSDIH	189	4	1	2
					6	24° 21' 40.964" N	85° 44' 32.857" E	JAINAGAR	CHANDRA	162	42	1	1428
					7	24° 21' 41.104" N	85° 44' 33.027" E						
					8	24° 21' 41.346" N	85° 44' 33.309" E						
					9	24° 21' 41.594" N	85° 44' 33.586" E						
					10	24° 21' 41.847" N	85° 44' 33.857" E						
					11	24° 21' 42.106" N	85° 44' 34.121" E						
					12	24° 21' 42.370" N	85° 44' 34.380" E						
					13	24° 21' 42.639" N	85° 44' 34.632" E						
					14	24° 21' 42.913" N	85° 44' 34.877" E						
					15	24° 21' 43.192" N	85° 44' 35.116" E						
					16	24° 21' 43.476" N	85° 44' 35.348" E						
					17	24° 21' 43.764" N	85° 44' 35.574" E						
					18	24° 21' 43.903" N	85° 44' 35.678" E						
					19	24° 21' 42.359" N	85° 44' 36.945" E						
					20	24° 21' 40.680" N	85° 44' 38.728" E						
					21	24° 21' 38.829" N	85° 44' 40.209" E						
					22	24° 21' 37.059" N	85° 44' 41.837" E						
20	PO KD JN - KS 05	KESO 05	3.18	1	24° 21' 35.116" N	85° 44' 51.127" E	MARKACHO	BANSDIH	189	4	1	1	911
				2	24° 21' 34.619" N	85° 44' 53.285" E	MARKACHO	BANSDIH	189	4	1	1	1129
				3	24° 21' 33.968" N	85° 44' 56.181" E	MARKACHO	BANSDIH	189	4	1	1	1
				4	24° 21' 33.249" N	85° 44' 58.545" E	MARKACHO	BANSDIH	189	4	1	1	1132
				5	24° 21' 31.484" N	85° 45' 2.999" E	MARKACHO	BANSDIH	189	4	1	1	2
				6	24° 21' 30.950" N	85° 45' 3.632" E	JAINAGAR	CHANDRA	162	42	1	1	1428
				7	24° 21' 30.813" N	85° 45' 3.388" E	MARKACHO	NAGIRTO	188	46	1	1	391
				8	24° 21' 30.674" N	85° 45' 1.778" E	JAINAGAR	BADULIA	163	24	1	1	1
				9	24° 21' 31.009" N	85° 45' 0.467" E	JAINAGAR	BADULIA	163	24	1	1	286



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				10	24° 21' 31.314" N	85° 44' 59.341" E	JAINAGAR	BADULLIA	163	24	1	925
				11	24° 21' 31.874" N	85° 44' 57.660" E	JAINAGAR	BADULLIA	163	24	1	916
				12	24° 21' 31.867" N	85° 44' 55.391" E						
				13	24° 21' 31.879" N	85° 44' 52.532" E						
				14	24° 21' 32.695" N	85° 44' 50.727" E						
				15	24° 21' 33.323" N	85° 44' 49.368" E						
				16	24° 21' 34.571" N	85° 44' 47.453" E						
				17	24° 21' 34.570" N	85° 44' 47.428" E						
				18	24° 21' 34.563" N	85° 44' 47.276" E						
				19	24° 21' 35.472" N	85° 44' 46.166" E						
				20	24° 21' 36.407" N	85° 44' 45.378" E						
				21	24° 21' 36.755" N	85° 44' 43.981" E						
				22	24° 21' 37.370" N	85° 44' 43.117" E						
				23	24° 21' 38.504" N	85° 44' 42.622" E						
				24	24° 21' 38.828" N	85° 44' 42.530" E						
				25	24° 21' 37.823" N	85° 44' 43.897" E						
				26	24° 21' 37.120" N	85° 44' 45.490" E						
				27	24° 21' 35.784" N	85° 44' 48.317" E						
21	PO_KD_JN_KS_06	KESO_06	1.91	1	24° 21' 29.804" N	85° 45' 1.437" E	MARKACHO	NAGIRTO	188	46	1	391
				2	24° 21' 29.692" N	85° 45' 2.471" E	JAINAGAR	BADULLIA	163	24	1	1
				3	24° 21' 29.851" N	85° 45' 3.143" E	JAINAGAR	BADULLIA	163	24	1	286
				4	24° 21' 29.922" N	85° 45' 3.950" E	JAINAGAR	BADULLIA	163	24	1	925
				5	24° 21' 29.451" N	85° 45' 5.105" E	JAINAGAR	BADULLIA	163	24	1	916
				6	24° 21' 27.510" N	85° 45' 6.239" E						
				7	24° 21' 26.491" N	85° 45' 7.088" E						
				8	24° 21' 25.737" N	85° 45' 7.709" E						
				9	24° 21' 24.854" N	85° 45' 7.971" E						



				16	24° 21' 23.679" N	85° 45' 10.203" E						
				17	24° 21' 24.310" N	85° 45' 9.670" E						
				18	24° 21' 24.738" N	85° 45' 9.559" E						
				19	24° 21' 22.884" N	85° 45' 11.805" E						
23	PO_KD_JN_KS_08	KESO 08	0.33	1	24° 21' 19.711" N	85° 45' 14.962" E	MARKACHO	NAGIRTO	188	46	1	391
				2	24° 21' 22.605" N	85° 45' 12.521" E	JAINAGAR	BADULIA	163	24	1	1
				3	24° 21' 21.770" N	85° 45' 14.666" E	JAINAGAR	BADULIA	163	24	1	286
				4	24° 21' 21.113" N	85° 45' 16.353" E	JAINAGAR	BADULIA	163	24	1	925
				5	24° 21' 20.999" N	85° 45' 16.245" E	JAINAGAR	BADULIA	163	24	1	916
				6	24° 21' 20.489" N	85° 45' 15.799" E						
				7	24° 21' 19.804" N	85° 45' 15.285" E						
24	PO_KD_MC_KS_09	KESO 09	1.24	1	24° 21' 17.582" N	85° 45' 27.978" E	MARKACHO	NAGIRTO	188	46	1	391
				2	24° 21' 17.433" N	85° 45' 25.765" E	JAINAGAR	BADULIA	163	24	1	1
				3	24° 21' 17.547" N	85° 45' 24.058" E	JAINAGAR	BADULIA	163	24	1	286
				4	24° 21' 17.668" N	85° 45' 22.138" E	JAINAGAR	BADULIA	163	24	1	925
				5	24° 21' 17.815" N	85° 45' 21.138" E	JAINAGAR	BADULIA	163	24	1	916
				6	24° 21' 18.920" N	85° 45' 19.444" E						
				7	24° 21' 19.012" N	85° 45' 19.390" E						
				8	24° 21' 20.596" N	85° 45' 18.231" E						
				9	24° 21' 20.634" N	85° 45' 18.224" E						
				10	24° 21' 19.731" N	85° 45' 22.753" E						
				11	24° 21' 19.615" N	85° 45' 23.259" E						
				12	24° 21' 19.360" N	85° 45' 23.990" E						
				13	24° 21' 18.408" N	85° 45' 26.550" E						
25	PO_KD_MC_KS_10	KESO 10	0.39	1	24° 21' 10.354" N	85° 45' 30.228" E	JAINAGAR	BADULIA	163	24	1	1
				2	24° 21' 9.582" N	85° 45' 30.276" E	JAINAGAR	BADULIA	163	24	1	286



				3	24° 21' 11.040" N	85° 45' 28.396" E	JAINAGAR	BADULIA	163	24	1	925
				4	24° 21' 12.034" N	85° 45' 28.581" E	JAINAGAR	BADULIA	163	24	1	916
				5	24° 21' 14.564" N	85° 45' 28.661" E						
				6	24° 21' 13.998" N	85° 45' 29.056" E						
				7	24° 21' 12.509" N	85° 45' 29.697" E						
				8	24° 21' 10.354" N	85° 45' 30.228" E						
26	PO_KD_MC_KS_11	KESO 11	0.95	1	24° 21' 9.582" N	85° 45' 30.276" E	JAINAGAR	BADULIA	163	24	1	1
				2	24° 21' 9.086" N	85° 45' 30.307" E	JAINAGAR	BADULIA	163	24	1	286
				3	24° 21' 7.379" N	85° 45' 30.313" E	JAINAGAR	BADULIA	163	24	1	925
				4	24° 21' 6.677" N	85° 45' 30.023" E	JAINAGAR	BADULIA	163	24	1	916
				5	24° 21' 6.095" N	85° 45' 29.238" E	MARKACHO	CHOPNADIH	177	1	1	289
				6	24° 21' 5.330" N	85° 45' 27.784" E						
				7	24° 21' 4.828" N	85° 45' 26.871" E						
				8	24° 21' 5.781" N	85° 45' 27.313" E						
				9	24° 21' 6.963" N	85° 45' 27.639" E						
				10	24° 21' 11.040" N	85° 45' 28.396" E						
27	PO_KD_JN_KS_12	KESO 12	3.74	1	24° 20' 43.634" N	85° 45' 20.080" E	JAINAGAR	BADULIA	163	24	1	1
				2	24° 20' 42.058" N	85° 45' 19.580" E	JAINAGAR	BADULIA	163	24	1	286
				3	24° 20' 42.404" N	85° 45' 19.417" E	JAINAGAR	BADULIA	163	24	1	925
				4	24° 20' 42.494" N	85° 45' 19.399" E	JAINAGAR	BADULIA	163	24	1	916
				5	24° 20' 43.295" N	85° 45' 19.394" E	MARKACHO	CHOPNADIH	177	1	1	289
				6	24° 20' 44.258" N	85° 45' 19.410" E	MARKACHO	BELADIH	176	1	1	1
				7	24° 20' 45.221" N	85° 45' 19.620" E	MARKACHO	BELADIH	176	1	1	904
				8	24° 20' 46.309" N	85° 45' 19.392" E						
				9	24° 20' 47.986" N	85° 45' 19.099" E						
				10	24° 20' 48.091" N	85° 45' 19.134" E						



R

				11	24° 20' 49.878" N	85° 45' 19.430" E					
				12	24° 20' 53.093" N	85° 45' 21.059" E					
				13	24° 20' 56.657" N	85° 45' 23.709" E					
				14	24° 20' 57.735" N	85° 45' 24.508" E					
				15	24° 21' 0.144" N	85° 45' 24.876" E					
				16	24° 21' 1.662" N	85° 45' 25.623" E					
				17	24° 21' 2.885" N	85° 45' 27.295" E					
				18	24° 21' 3.339" N	85° 45' 28.818" E					
				19	24° 21' 2.034" N	85° 45' 28.046" E					
				20	24° 20' 59.104" N	85° 45' 26.967" E					
				21	24° 20' 56.226" N	85° 45' 25.579" E					
				22	24° 20' 53.005" N	85° 45' 23.643" E					
				23	24° 20' 50.230" N	85° 45' 22.461" E					
				24	24° 20' 47.369" N	85° 45' 21.502" E					
				1	24° 20' 29.115" N	85° 45' 16.453" E	JAINAGAR	BADULIA	163	24	1
				2	24° 20' 28.838" N	85° 45' 16.511" E	JAINAGAR	BADULIA	163	24	1
				3	24° 20' 29.135" N	85° 45' 16.229" E	JAINAGAR	BADULIA	163	24	1
				4	24° 20' 30.009" N	85° 45' 15.527" E	JAINAGAR	BADULIA	163	24	1
				5	24° 20' 31.893" N	85° 45' 14.876" E	MARKACHO	BELADIH	176	1	1
				6	24° 20' 34.378" N	85° 45' 14.122" E	MARKACHO	BELADIH	176	1	1
				7	24° 20' 37.873" N	85° 45' 14.499" E					
				8	24° 20' 40.340" N	85° 45' 15.355" E					
				9	24° 20' 43.029" N	85° 45' 16.109" E					
				10	24° 20' 45.759" N	85° 45' 17.137" E					
				11	24° 20' 44.173" N	85° 45' 17.488" E					
				12	24° 20' 42.924" N	85° 45' 17.306" E					
				13	24° 20' 42.009" N	85° 45' 16.672" E					
28	PO KD JN KS 13	KESO 13	1.74								



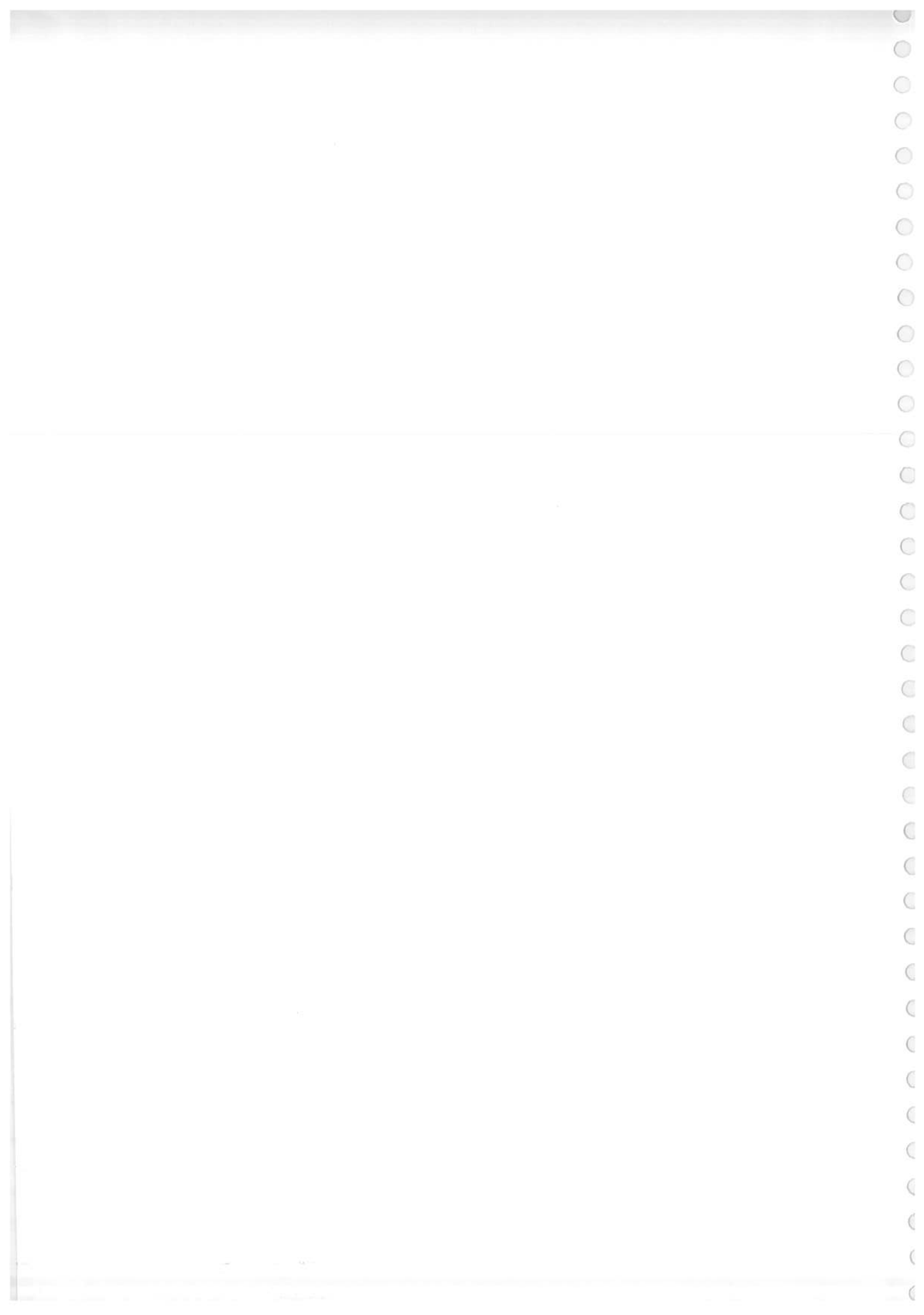
29	PO_KD_JN_ KS 17	KESO 14	5.35	14	24° 20' 40.935" N	85° 45' 16.316" E																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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ANNEXURE- F
(DFO & CO Letter)



कार्यालय अंचल अधिकारी, चन्दवारा

पत्रांक 307/

प्रेषक,

अंचल अधिकारी,
चन्दवारा।

सेवा में,

जिला खनन पदाधिकारी,
कोडरमा।

विषय:- चन्दवारा, दिनांक 24/04/2023
कोडरमा जिला हेतु बालू खनिज के DSR में प्रस्तावित Category-II
के बालूघाट के बावत प्रतिवेदन उपलब्ध कराने के संबंध में।

प्रसंग:- आपका पत्रांक- 709/एम0, दिनांक- 06.04.2023

महाशय,

उपर्युक्त विषयक एवं प्रसंगाधीन पत्र के आलोक में अंचल, चन्दवारा अन्तर्गत बालू खनिज के DSR में प्रस्तावित Category-II के बालूघाट के बावत वांछित जाँच-प्रतिवेदन संबंधित हलका राजस्व उपनिरीक्षक, प्रभारी अंचल निरीक्षक एवं अंचल अमीन से प्राप्त है जिसे विहित प्रपत्र में संलग्न कर अग्रतर कार्रवाई हेतु भेजा जाता है।

अनु0:- यथोक्त।

विश्वासभाजन

24/4/23
अंचल अधिकारी,
चन्दवारा।





मौजा - कौडी

भाना नं. - 36

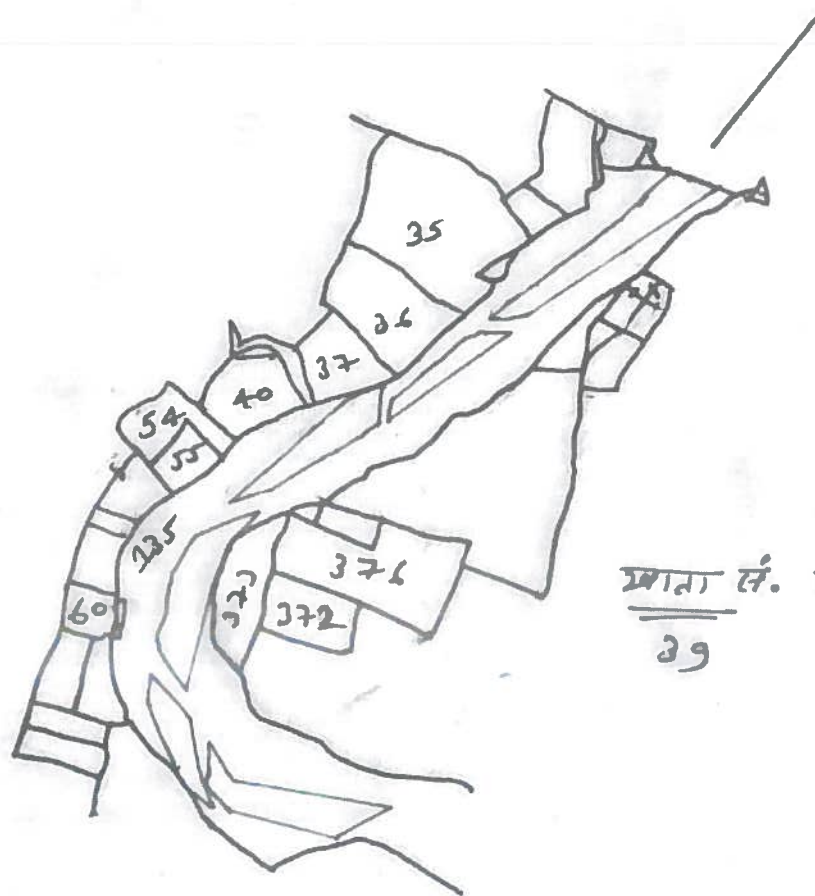
भाना - जयनगर

जिला - कोडरमा

पै. - 16" = 1 मील

सन - 1911-12 ई.

प्रस्तावित भूमि को ☐ लाल रंग से दिखाया गया है।



प्राना सं.	प्लॉट सं.	रकबा
39	135	2.24 एकड़

अंगीकृत
24/04/23

अंचल अधिकारी



अंगीकृत
24/04/23

रा.उ. नि.

24.4.2023

प्र. अं. निरीक्षक

24/04/23

अंचल अधिकारी
चन्द्रबाला

N मौजा- पौकडन्डा

धाना नं.- 41

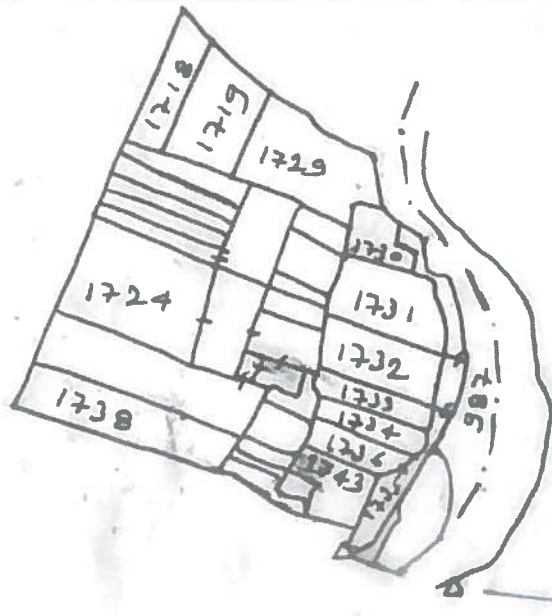
धाना - जयनगर

जिला - कोडरमा

स्के.- 1" = 1 मील

सन- 1911-12 ई.

प्रस्तावित भूमि को लाल रंग से दिखाया गया है,



धाना सं.

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प्लॉट सं.

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24/04/23

अंचल असीन

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अंचल अधिकारी

अंचल अधिकारी
चन्द्रगढ़।



N सौजा - मझगावों

थाना नं. - 29

थाना - बयनगर

जिला - कोडरमा

चै. - 16" = 1 मील

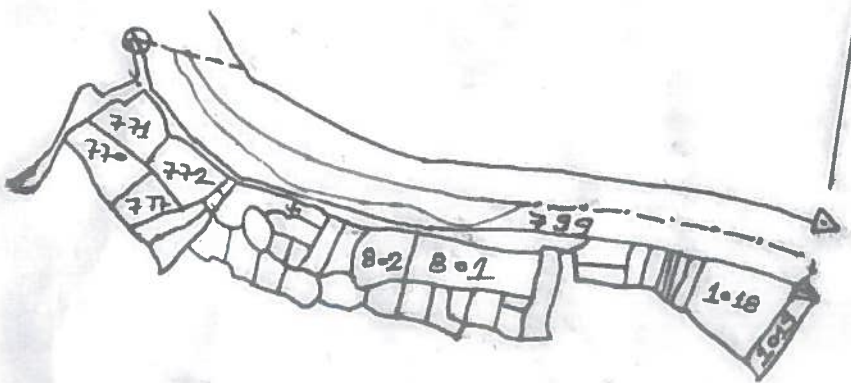
वर्ष - 1911 - 12 ई.

प्रस्तावित भूमी को लात रंग से दिखाया गया है

प्रस्तावित.
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अंगीकृत
24.4.23
अंचल अमीन

अंगीकृत
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अंगीकृत
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प्र.अ. निरीक्षक

अंगीकृत
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सौदा - गारामडीह

धाना नं. - 34

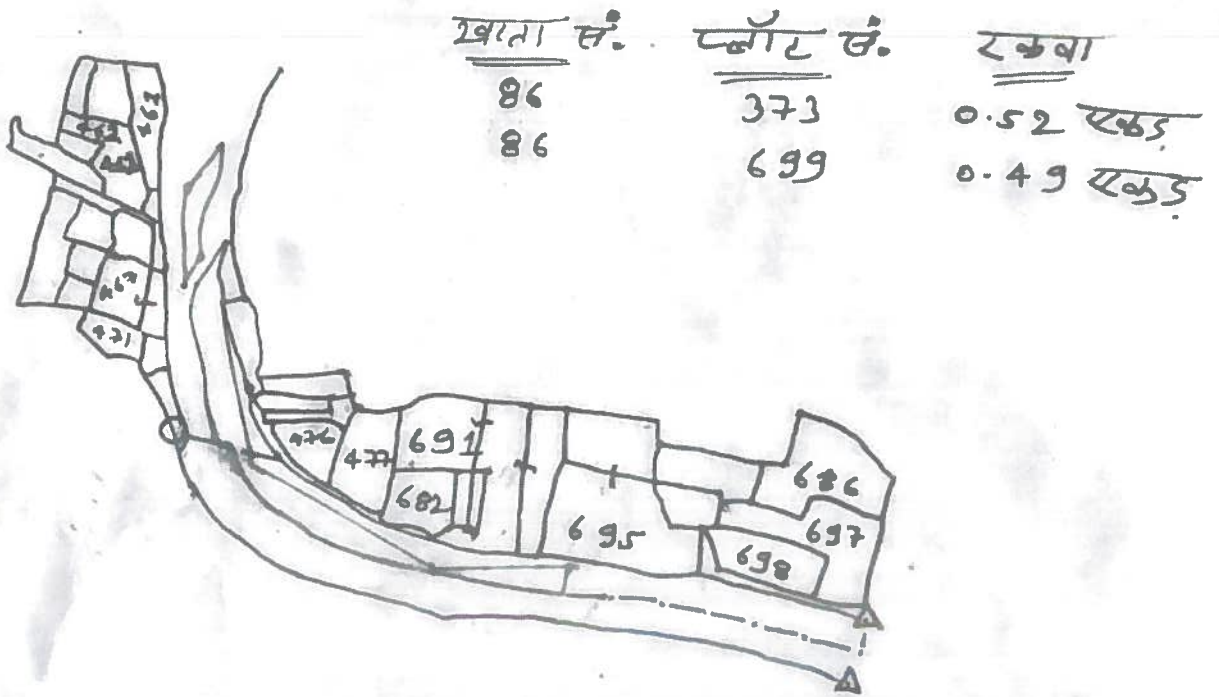
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प्रस्तावित भूमी को प्लॉट रंग से दिखाया गया है,



Dinegh
24.4.23
अंचल अमीन

Ranjit
24/04/23
रा. उ. नि.

24.4.2023
प्र. अं. निरीक्षक

24.4.23
अंचल अधिकारी
चन्द्रबारा



गौजा - पोखरा

To whom it may concern

This is to certify that all sitting criteria/provisions of JSPCB & SEIAA, JHARKHAND has been complied.

As per JSPCB notification no. B-21, Ranchi dated 16/08/13.

Sl. No	Minimum distance from	Distance (in meter)
1	NH	100
2	SH	100
3	Distance metal road	50
4	Railway line	100
5	River	100
6	Any other river	100
7	Habitation	200
8	Forest/ Forest land	400

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As per 58th-MOM-of-SEIAA Jharkhand

III. Revised format for PP to get the following information/certification from Circle Officer:-

क्रम सं०	प्रश्न/विषय	हाँ/नहीं
1.	क्या आवेदन भूमि की कोटि सर्वे खातियान यथा रजिस्टर-II में जंगल झाड़ी के रूप में दर्ज है?	नहीं
2.	क्या 500 मीटर की दूरी के अंदर कोई मानव बसाइट (Habitation) स्थित है?	नहीं
3.	क्या 500 मीटर की दूरी के अंदर कोई जलोय निकाय (Dam/Reservoir) स्थित है?	नहीं
4.	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है?	नहीं
5.	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6.	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है?	नहीं
7.	क्या 10 कि०मी० की परिधि में कोई अंतरराज्यीय (Interstate) सीमा है?	नहीं
8.	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक (Monuments/Archaeological) महत्व के स्थल स्थित है?	नहीं

Dingel

24/04/23



24.4.2023

R.S.I./प्र.भं.नि०



24/4/23
अचल अधिकारी
बन्धवारा (कोडरमा)



मौजा - मझगाँवा

To whom it may concern

This is to certify that all sitting criteria/provisions of JSPCB & SEIAA, JHARKHAND has been complied.

As per JSPCB notification no. B-21, Ranchi dated 16/08/13.

Sl. No	Minimum distance from	Distance (in meter)
1	NH	100
2	SH	100
3	Distance metal road	50
4	Railway line	100
5	River	100
6	Any other river	100
7	Habitation	200
8	Forest/ Forest land	400

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As per 58th-MOM-of-SEIAA Jharkhand

III. Revised format for PP to get the following information/certification from Circle Officer:-

क्रम सं०	निर्धारित बिन्दु	हाँ/नहीं
1.	क्या आवेदित भूमि की कोटि सर्वे खातियान यथा रजिस्टर-II में जंगल झाड़ी के रूप में दर्ज है?	नहीं
2.	क्या 500 मीटर की दूरी के अंदर कोई मानव बसाहट (Habitation) स्थित है?	हाँ
3.	क्या 500 मीटर की दूरी के अंदर कोई जलाशय (Dam/Reservoir) स्थित है?	हाँ
4.	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है?	हाँ
5.	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6.	क्या 500 मीटर की दूरी के अंदर कोई अस्पताल (Hospital) स्थित है?	नहीं
7.	क्या 10 कि०मी० की परिधि में कोई अंतराज्यीय (Interstate) सीमा है?	नहीं
8.	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/प्रागैतिहासिक (Monuments/Archaeological) महत्त्व के स्थल स्थित है?	नहीं

Dinesh
24/04/23

24/04/23
R.S.F.

24/04/23
प्र. मं. नि.

24/04/23
अचल अधिकारी
चन्दवारा (कोडरमा)

R



मौजा - गिराम डीक

To whom it may concern

This is to certify that all sitting criteria/provisions of JSPCB & SEIAA, JHARKHAND has been complied.

As per JSPCB notification no. B-21, Ranchi dated 16/08/13.

Sl. No	Minimum distance from	Distance (in meter)
1	NH	100
2	SH	100
3	Distance metal road	50
4	Railway line	100
5	River	100
6	Any other river	100
7	Habitation	200
8	Forest/ Forest land	400

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As per 58th-MOM-of-SEIAA Jharkhand

III. Revised format for PP to get the following information/certification from Circle Officer:-

क्रम सं०	नियंत्रित बिन्दु	हाँ/नहीं
1.	क्या आवेदित भूमि की कोटि सर्व खतियान यथा रजिस्टर-II में जंगल झाड़ी के रूप में दर्ज है?	नहीं
2.	क्या 500 मीटर की दूरी के अंदर कोई मानव बसाहट (Habitation) स्थित है?	हो
3.	क्या 500 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है?	हो
4.	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है?	नहीं
5.	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	हो
6.	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है?	नहीं
7.	क्या 10 कि०मी० की परिधि में कोई अंतर्राज्यीय (Interstate) सीमा है?	नहीं
8.	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक (Monuments/Archaeological) महत्व के स्थल स्थित है?	नहीं

Dinell
24/04/23

24/4/23
R.S.S

24.4.2023
प्र. प्र. मि०

24/4/23
अचल अधिकारी
चन्दवारा (कोडरमा)



मौजा - काँको

To whom it may concern

This is to certify that all sitting criteria/provisions of JSPCB & SEIAA, JHARKHAND has been complied.

As per JSPCB notification no. B-21, Ranchi dated 16/08/13.

Sl. No	Minimum distance from	Distance (in meter)
1	NH	100
2	SH	100
3	Distance metal road	50
4	Railway line	100
5	River	100
6	Any other river	100
7	Habitation	200
8	Forest/ Forest land	400

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As per 58th-MOM-of-SEIAA Jharkhand

III. Revised format for PP to get the following information/certification from Circle Officer:-

क्रम सं०	विचारित बिन्दु	हाँ/नहीं
1.	क्या आवेदित ग्राम की कोई सर्वे खातियान यथा रजिस्टर-II में जंगल झाड़ी के रूप में दर्ज है?	नहीं
2.	क्या 500 मीटर की दूरी के अंदर कोई मानव बसाहट (Habitation) स्थित है?	हाँ
3.	क्या 500 मीटर की दूरी के अंदर कोई जलाशय निकाय (Dam/Reservoir) स्थित है?	नहीं
4.	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है?	हाँ
5.	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6.	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है?	नहीं
7.	क्या 10 कि०मी० की परिधि में कोई अंतराज्यीय (Interstate) सीमा है?	नहीं
8.	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक (Monuments/Archaeological) महत्व के स्थल स्थित है?	नहीं

Dingal
24/04/23

24/04/23
RSK
प्र. अ. नि.

24/04/23
अचल अधिकारी
चन्दवारा (कोडरमा)



कार्यालय अंचल अधिकारी, डोमचाँच

पत्रांक-500 /

दिनांक-28/04/2023

प्रेषक:-

अंचल अधिकारी,
डोमचाँच।

सेवा में,

जिला खनन पदाधिकारी,
कोडरमा।

विषय:- कोडरमा जिला हेतु बालू खनिज के DSR में प्रस्तावित Category-II के बालूघाट के बावत प्रतिवेदन उपलब्ध कराने के संबंध में।

प्रसंग:- भवदीय पत्रांक-820/एम0 दिनांक-27.04.2023

महाशय,

उपर्युक्त प्रसंगाधीन विषय के संबंध में प्राप्त पत्र की जाँच संबंधित राजस्व उपनिरीक्षक, अंचल अमीन एवं प्रभारी अंचल निरीक्षक से कराई गई। उनके द्वारा जांचोपरान्त बालू घाट से संबंधित नक्शा (02) एवं प्रशिविष्ट-1 में भूमि प्रतिवेदन (02) उपलब्ध कराया गया है, जो इस पत्र के साथ संलग्न कर भेजा जाता है।

अनुलग्नक:-यथोक्त।

विश्वासभाजन

अंचल अधिकारी,
डोमचाँच
28/04/2023



2

परिशिष्ट-1

अंचल अधिकारी द्वारा निम्नांकित निर्धारित बिन्दु पर प्रतिवेदन उपलब्ध कराना आपेक्षित है।

क्र०सं०	निर्धारित बिन्दु	प्रतिवेदन
1.	क्या आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर - 2 में जंगल झाड़ी के रूप में दर्ज है ?	नहीं
2.	क्या 500 मीटर की दूरी के अंदर कोई मानव बसाहट (Habitation) स्थित है ?	नहीं
3.	क्या 500 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है ?	हां
4.	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है ?	हां
5.	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है ?	नहीं
6.	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है ?	नहीं
7.	क्या 10 किलो मीटर की परिधी में कोई अंतराज्यीय सीमा (Interstate) स्थित है ?	नहीं
8.	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक महत्व (Monuments/Archaeological) के स्थल स्थित है ?	नहीं

महोदय,
 श्री जा दुर्गिया खाना नं०- 191 का खतियान हल्का मुख्यालय
 में उपलब्ध नहीं है। हल्का में उपलब्ध जैमजलडा सूची के
 अनुसार खाना नं०- 12 प्लॉट नं०- 128 एकका 0.69 एकड़ जैमजलडा
 खास बिस्म पूरनी परती दर्ज है।

28.4.23
(252)

28/4/23

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अधल अधिकारी
 बरेवांच (कोडरमा)



परिशिष्ट-1

अंचल अधिकारी द्वारा निम्नांकित निर्धारित बिन्दु पर प्रतिवेदन उपलब्ध कराना आपेक्षित है।

क्र०सं०	निर्धारित बिन्दु	प्रतिवेदन
1.	क्या आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर - 2 में जंगल झाड़ी के रूप में दर्ज है ?	नहीं
2.	क्या 500 मीटर की दूरी के अंदर कोई मानव वसाहत (Habitation) स्थित है ?	नहीं
3.	क्या 500 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है ?	हां
4.	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है ?	हां
5.	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है ?	नहीं
6.	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है ?	नहीं
7.	क्या 10 किलो मीटर की परिधी में कोई अंतराज्यीय सीमा (Interstate) स्थित है ?	नहीं
8.	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक महत्व (Monuments/Archaeological) के स्थल स्थित है ?	नहीं

महोदय,
 जीजा निमाडीह थाना नं०-190 का खतियान हल्का मुख्यालय
 में उपलब्ध नहीं है। हल्का में उपलब्ध गैसजलगा भूची के
 अनुसार खाना नं०-38 प्लॉट नं०-1066 एका - 7.80 एकड़
 गैसजलगा खाम किस्म - केशी मदी दर्ज है।



28.4.23
(ASI)

अंचल अधिकारी
 28/4/23

28.4.23
अंचल अधिकारी

अंचल अधिकारी
 ब्रह्मचारी (कोडरमा)

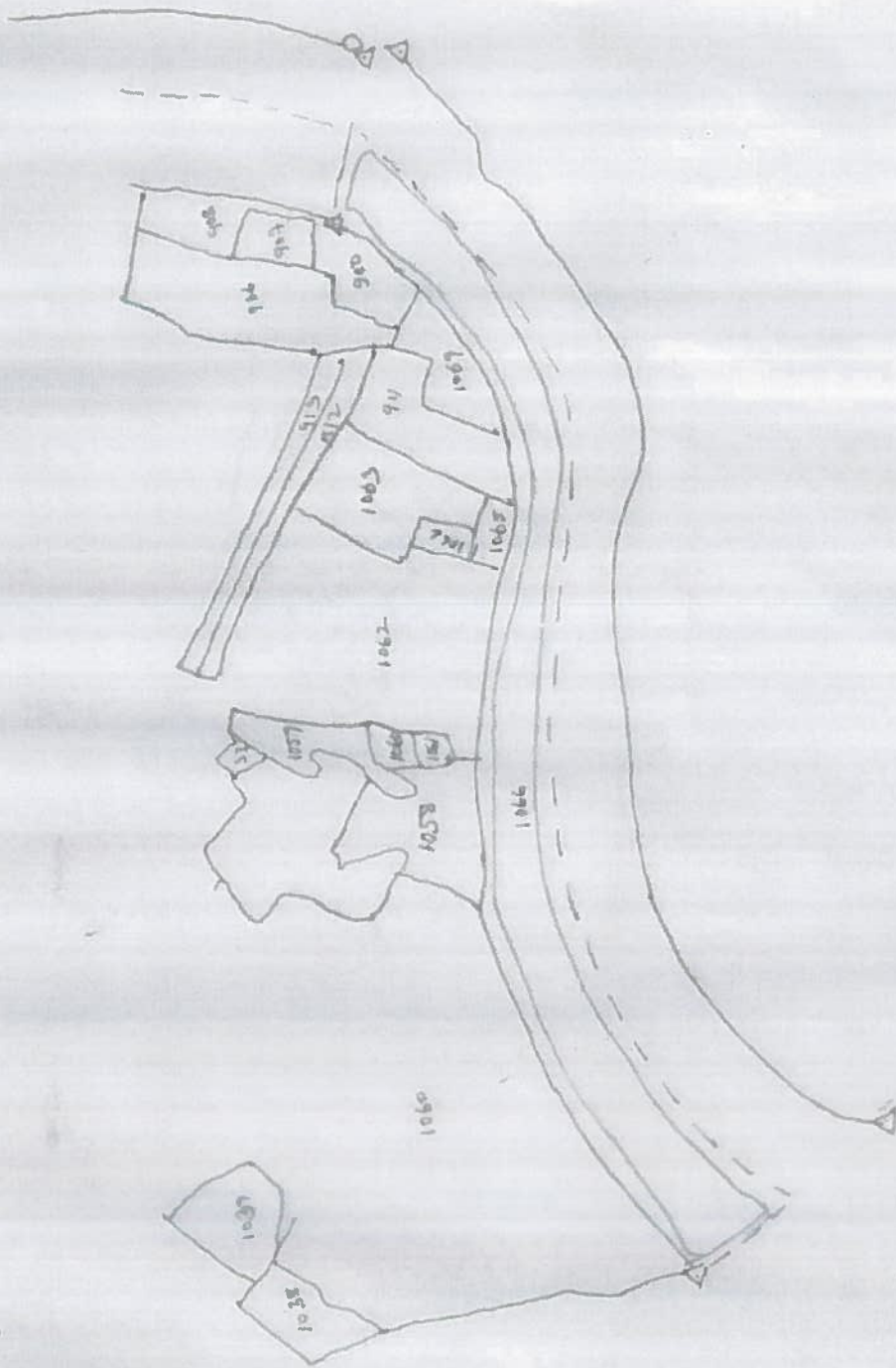


25/11/23

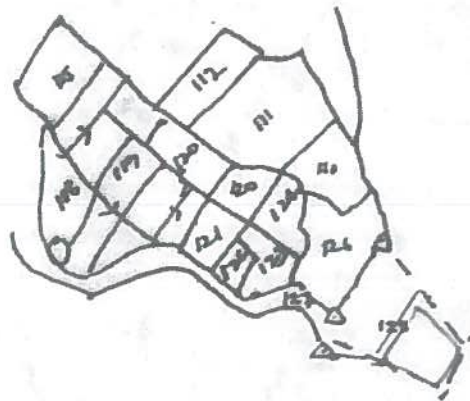
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 पाना न. 131
 पाना कोरमा
 हाल पाना - नवलाही
 जिला - कोरमा



5 से 16 वषर 1 भाग
 उगावि, अनिलाल से,
 ने दमाप गमा है।

पाना न.	पेसरा नं	एक	मचेरमा
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कोरमा पावे
 अनिल
 28/4/23

28-4-23
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अनिल अधिकारी
 कोरमा (कोरमा)

कार्यालय, अंचल अधिकारी, सतगावां

पत्रांक ...295

प्रेमक,

अंचल अधिकारी,
सतगावां।

सेवा में,

जिला खनन पदाधिकारी,
कोडरमा।

विषय :-

सतगावां, दिनांक 24/04/2023
कोडरमा जिला हेतु बालू खनिज के DSR(Draft) में प्रस्तावित Category-II के बालूघाट के बावत प्रतिवेदन उपलब्ध कराने के संबंध में।

प्रसंग :-

भवदीय पत्रांक 709/एम0, दिनांक 06.04.2023

महाशय,

उपर्युक्त विषयक एवं प्रसांगिक पत्र के संदर्भ में कहना है कि सतगावां अंचल अंतर्गत बालू खनिज के DSR(Draft) में प्रस्तावित Category-II के बालूघाट के बावत से संबंधित परिशिष्ट-1 में तैयार कर इस पत्र के साथ संलग्न कर आवश्यक कार्रवाई हेतु भेजी जा रही है।

अतः प्रतिवेदन भवदीय को सादर सूचनार्थ समर्पित।

अनुलग्नक:- यथोक्त।

विश्वासभाजन

अंचल अधिकारी,
सतगावां।

458 BLS-2022

R



क्रमांक - न्यायगोष्ठ 41/नं - 72

रजि. - 31 एप्रील - 01, दिनांक - 1045
रजि. - 33.30 ए.

To whom it may concern

This is to certify that all sitting criteria/provisions of JSPCB & SEIAA, JHARKHAND has been complied.

As per JSPCB notification no. B-21, Ranchi date 16.08.13

Sl. No	Minimum distance from	Distance (in meter)
1	NH	
2	SH	
3	Distance metal road	
4	Railway line	
5	River	
6	Any other river	
7	Habitation	
8	Forest/Forest land	

As per 58th-MOM-of-SEIAA Jharkhand

III. Revised format for PP to get the following information/certifications from Circle officer:-

क्रम सं०	निर्धारित बिन्दु	हाँ/नहीं
1	क्या आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर-II में जंगल झाडी के रूप में दर्ज है ?	नहीं.
2	क्या 500 मीटर की दूरी के अंदर कोई मानव बसाहट (Habitation) स्थित है ?	- हाँ.
3	क्या 500 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है ?	नहीं.
4	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है ?	नहीं.
5	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है ?	हाँ.
6	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital Institute) स्थित है ?	नहीं.
7	क्या 500 मीटर की दूरी के अंदर कोई अंतरराज्यीय सीमा (Interstate) स्थित है ?	नहीं.
8	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक महत्व (Monuments/Archaeological) के स्थल स्थित है ?	- नहीं.

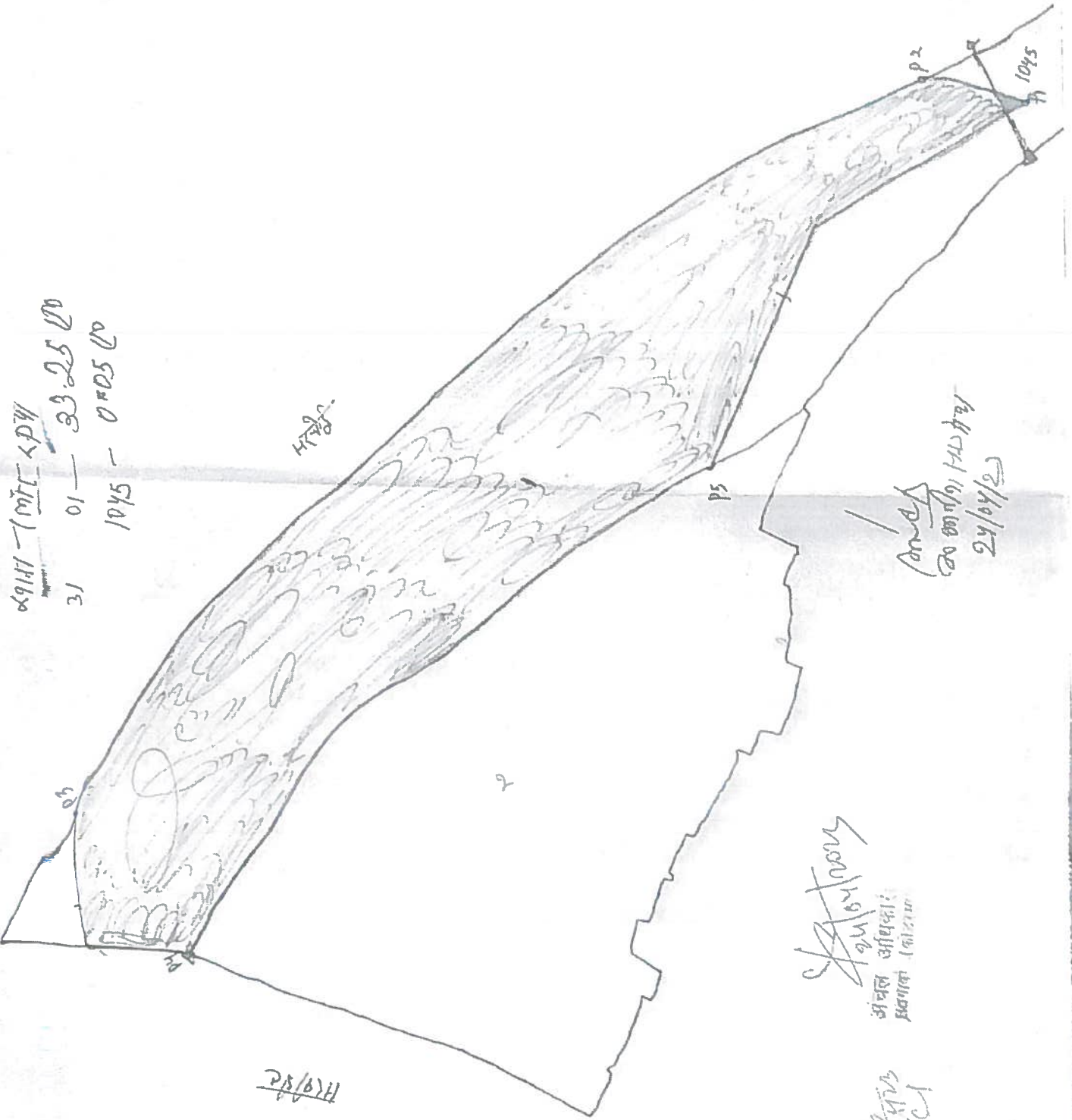


अंचल अधिकारी,
सतगावां।

५१५१ - १ मीटर ५५५
 ३१ ०१ - ३३.२५ ००
 १०५५ - ०.०५ ००

- १५५/२
 ५१५१ - १० = ५१४१
 ५१५१ = ५१५१
 ५१५१ = ५१५१

५१५/२



५१५/२
 ५१५१ - १० = ५१४१
 ५१५१ = ५१५१
 ५१५१ = ५१५१



To whom It may concern

This is to certify that all sitting criteria/provisions of ISPCB & SEIAA, JHARKHAND has been complied.

As per ISPCB notification no. B-21, Ranchi date 16.08.13

Sl. No	Minimum distance from	Distance (in meter)
1	NH	
2	SH	
3	Distance metal road	
4	Railway line	
5	River	
6	Any other river	
7	Habitation	
8	Forest/Forest land	

As per 58th-MOM-of-SEIAA Jharkhand

III. Revised format for PP to get the following information/certifications from

Circle officer:-

2 दिनांक 21/08/2020 राधा (1) 12 लोक 49/ कब्र-33.58 है

क्र.सं.	निर्धारित बिन्दु	हाँ/नहीं
1	क्या आवेदित भूमि की कोरिडोर सर्व स्वतंत्रता गंगा सड़क-11 में जंगल छाड़ी के रूप में चल है ?	हाँ
2	क्या 600 मीटर की दूरी के अंदर कोई मानव बसावट (Habitation) स्थित है ?	हाँ
3	क्या 600 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है ?	हाँ
4	क्या 600 मीटर की दूरी के अंदर कोई नदी (River) स्थित है ?	हाँ
5	क्या 600 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है ?	हाँ
6	क्या 600 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital Institute) स्थित है ?	हाँ
7	क्या 600 मीटर की दूरी के अंदर कोई अंतरराज्यीय सीमा (Interstate) स्थित है ?	हाँ
8	क्या 600 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/प्रागैतिहिक महत्त्व (Monuments/Archaeological) के स्थल स्थित है ?	हाँ



अंमल अधिकारी,
राजधानी।

मोपपः मफाली

थाना न० = २०

थाना = समुद्रोपा

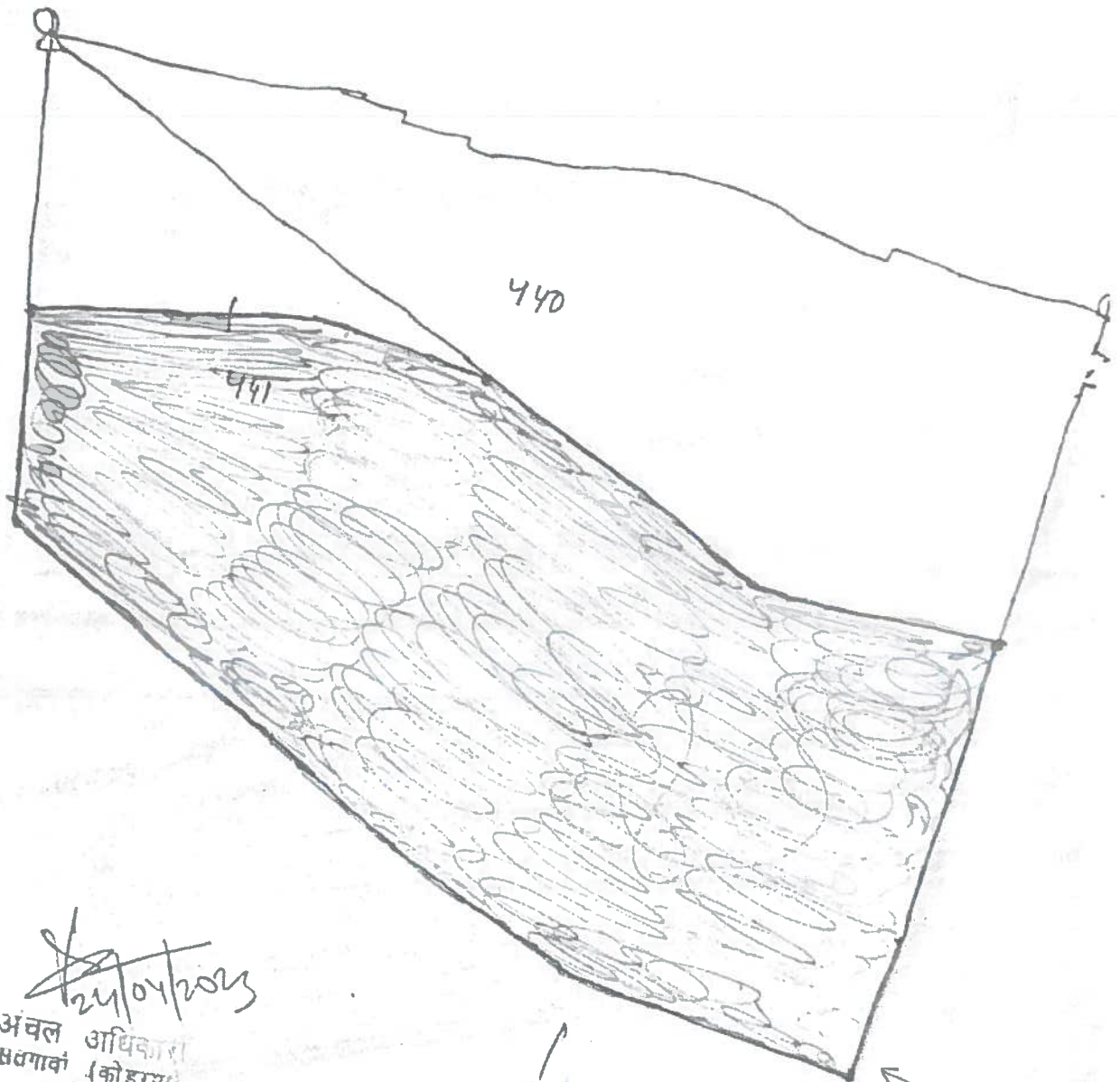
प्रिसः सैडरमा

२५/११ - (जॉई - अप्पा (ए०)

१२ ५५ - ३३.५८ (ए०)



समुद्रोपा



२५/०५/२०२३
अंचल अधिकारी
प्रवगावा (कोडरमा)

२५/०५/२०२३
२५/०५/२३
५५

२५/०५/२३
२५/०५/२३
५५



R

To whom it may concern

This is to certify that all sitting criteria/provisions of JSPCB & SEIAA, JHARKHAND has been complied.

As per JSPCB notification no. B-21, Ranchi date 16.08.13

Sl. No	Minimum distance from	Distance (in meter)
1	NH	
2	SH	
3	Distance metal road	
4	Railway line	
5	River	
6	Any other river	
7	Habitation	
8	Forest/Forest land	

As per 58th-MOM-of-SEIAA Jharkhand

प्राम- प्रियपु, पाला सं. 37 खता सं. 167 कांटेसि

01, 1069

III. Revised format for PP to get the following information/certifications from

Circle officer:-

कैदी - 22.55 22.
किता - नरि -

क्रम सं०	निर्धारित बिन्दु	हाँ/नहीं
1	क्या आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर-II में जंगल झाडी के रूप में दर्ज है ?	नहीं
2	क्या 500 मीटर की दूरी के अंदर कोई मानव बसाहट (Habitation) स्थित है ?	हाँ
3	क्या 500 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है ?	नहीं
4	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है ?	नहीं
5	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है ?	हाँ
6	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital Institute) स्थित है ?	नहीं
7	क्या 500 मीटर की दूरी के अंदर कोई अंतरराज्यीय सीमा (Interstate) स्थित है ?	नहीं
8	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक महत्व (Monuments/Archaeological) के स्थल स्थित है ?	नहीं

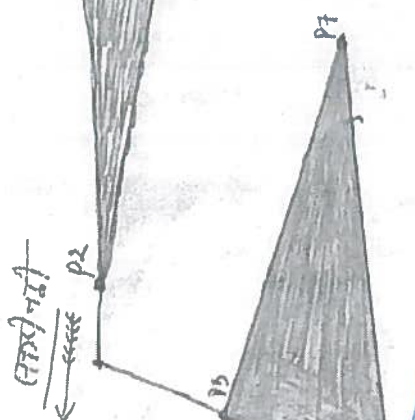
ह.स.ए.
24/04/23



अधिकारी
किता - नरि

24/04/2023
अंचल अधिकारी,
सतगावां।

$\frac{1357}{167} - \frac{767}{167} - \frac{167}{167}$
 $\frac{04-22}{01} - \frac{2-40}{10} =$
 $2051.0 - 5150$



$\frac{f(x)}{g(x)} = \frac{p_1(x)}{p_2(x)}$

A3

11

1614

14

11

304

Scanned with CamScanner

2021

~~10/10/10~~

अमल अधिकारी
प्रदभावं (कोडिंग)

~~12/14/20~~

10/10/10

16/11/2022

24/04/23



To whom it may concern

This is to certify that all sitting criteria/provisions of JSPCB & SEIAA, JHARKHAND has been complied.

As per JSPCB notification no. B-21, Ranchi date 16.08.13

Sl. No	Minimum distance from	Distance (in meter)
1	NH	
2	SH	
3	Distance metal road	
4	Railway line	
5	River	
6	Any other river	
7	Habitation	
8	Forest/Forest land	

As per 58th-MOM-of-SEIAA Jharkhand

गाना-विद्यालय एफ. 28 खोला ए. 3

III. Revised format for PP to get the following information/certifications from Circle officer:-

with - 1, 2

CEFA - 9.75¢, 15.75¢
25.50¢

क्रम सं०	निर्धारित बिन्दु	हाँ/नहीं
1	क्या आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर-II में जंगल झाड़ी के रूप में दर्ज है ?	हाँ
2	क्या 500 मीटर की दूरी के अंदर कोई मानव बसाहट (Habitation) स्थित है ?	नहीं
3	क्या 500 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है ?	नहीं
4	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है ?	नहीं
5	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है ?	नहीं
6	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital Institute) स्थित है ?	नहीं
7	क्या 500 मीटर की दूरी के अंदर कोई अंतरराज्यीय सीमा (Interstate) स्थित है ?	नहीं
8	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक महत्व (Monuments/Archaeological) के स्थल स्थित है ?	नहीं



2024/23
 11/11/23
 11/11/23

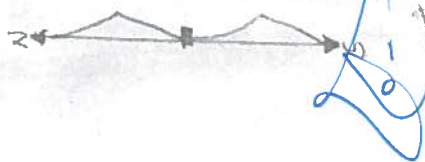
અંચલ અધિકારી,
સતગાવાં ।

2

$n = 3$ (सर्वोत्तम)
 $n_1 = 2.8$
 $n_2 = 1.5$
 $n_3 = 1.5$

$101 - 09.75$
 $08 - 15.75$

$n_1 = 2.8$
 $n_2 = 1.5$
 $n_3 = 1.5$



$n_1 = 2.8$
 $n_2 = 1.5$
 $n_3 = 1.5$

$n_1 = 2.8$
 $n_2 = 1.5$
 $n_3 = 1.5$

3

2/10/2019
 2/10/2019
 2/10/2019

2/10/2019
 2/10/2019
 2/10/2019

2/10/2019
 2/10/2019
 2/10/2019



To whom it may concern

This is to certify that all sitting criteria/provisions of JSPCB & SEIAA, JHARKHAND has been complied.

As per JSPCB notification no. B-21, Ranchi date 16.08.13

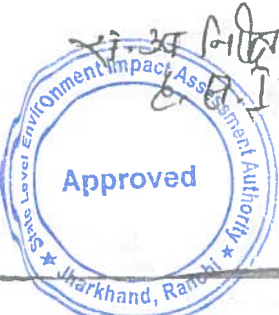
Sl. No	Minimum distance from	Distance (in meter)
1	NH	
2	SH	
3	Distance metal road	
4	Railway line	
5	River	
6	Any other river	
7	Habitation	
8	Forest/Forest land	

As per 58th-MOM-of-SEIAA Jharkhand

मौजा - मिथिलीचक थाना - 19
ग्राम - बिरा 211 - ब्लॉक

III. Revised format for PP to get the following information/certifications from जं० अंचल
Circle officer:-

क्रम सं०	निर्धारित बिन्दु	हाँ/नहीं
1	क्या आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर-II में जंगल झाडी के रूप में दर्ज है ?	हाँ
2	क्या 500 मीटर की दूरी के अंदर कोई मानव बसाहट (Habitation) स्थित है ?	हाँ
3	क्या 500 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है ?	नहीं
4	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है ?	नहीं
5	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है ?	नहीं
6	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital Institute) स्थित है ?	नहीं
7	क्या 500 मीटर की दूरी के अंदर कोई अंतरराज्यीय सीमा (Interstate) स्थित है ?	नहीं
8	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक महत्व (Monuments/Archaeological) के स्थल स्थित है ?	नहीं



जं० अंचल अधिकारी
सतगावां

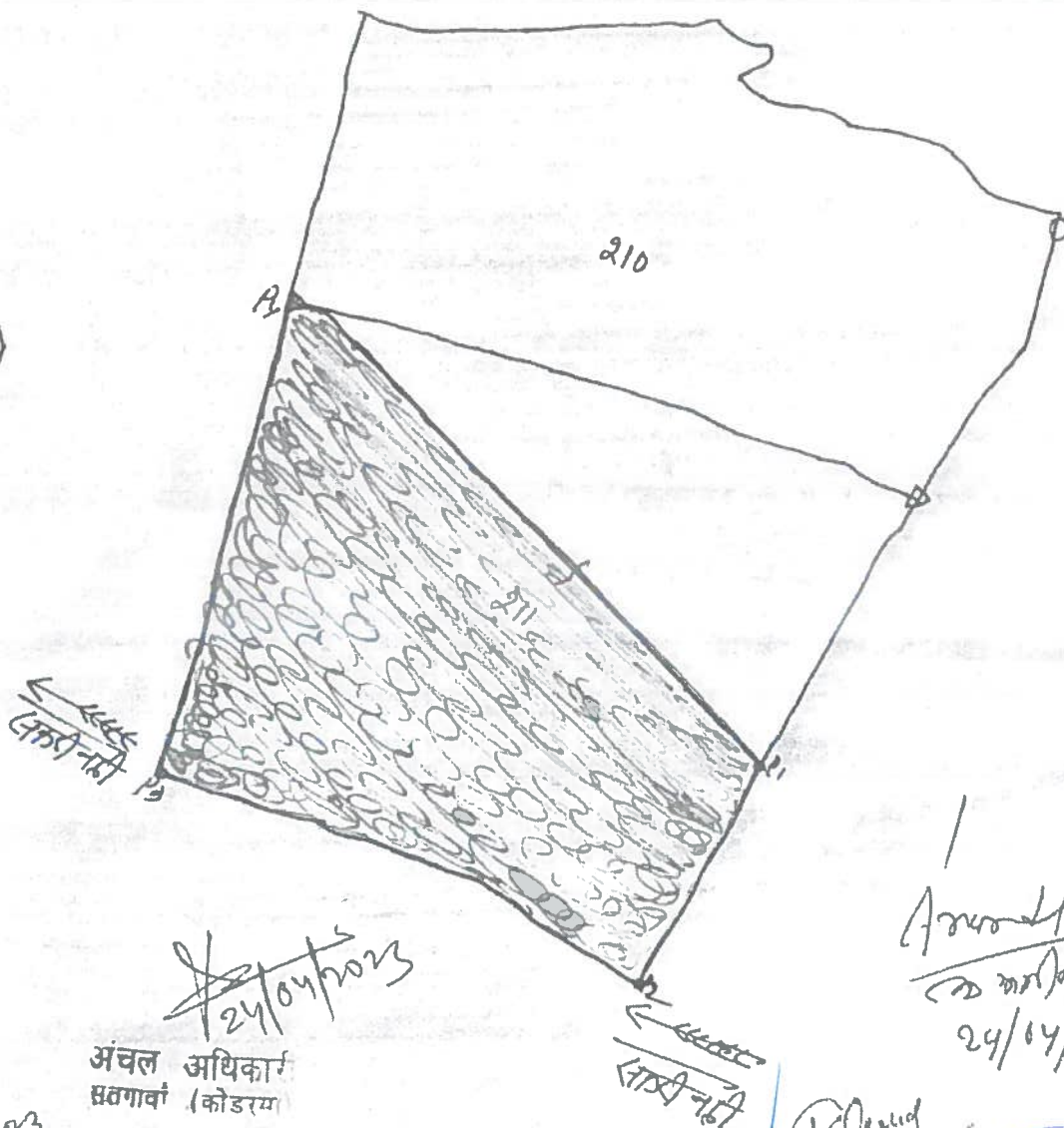
अंचल अधिकारी,
सतगावां।

भौम = मिश्रचक्र
 थाना नं० = १९
 थाना = रातगावा
 जिला = कोडरमा

२९।५। - (नॉट - २५७। (ए०)

- २११ - १५.५९ (ए०)

पानासिद्धि प्रदेगाला = □



२५/०४/२३
 (कोडरमा) (१५/०४/२३)
 २५/०४/२३

R. K. Singh
 (R.S.S., E.M.A.)



To whom it may concern

This is to certify that all sitting criteria/provisions of JSPCB & SEIAA, JHARKHAND has been complied.

As per JSPCB notification no. B-21, Ranchi date 16.08.13

Sl. No	Minimum distance from	Distance (in meter)
1	NH	
2	SH	
3	Distance metal road	
4	Railway line	
5	River	
6	Any other river	
7	Habitation	
8	Forest/Forest land	

As per 58th-MOM-of-SEIAA Jharkhand

III. Revised format for PP to get the following information/certifications from Circle officer:-

2023

क्र. 23.07 ए.

जि. नदी

क्रम सं०	निर्धारित बिन्दु	हों/नहीं
1	क्या आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर-II में जंगल झाडी के रूप में दर्ज है ?	नहीं
2	क्या 500 मीटर की दूरी के अंदर कोई मानव बसाहट (Habitation) स्थित है ?	है
3	क्या 500 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है ?	नहीं
4	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है ?	नहीं
5	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है ?	नहीं
6	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital Institute) स्थित है ?	नहीं
7	क्या 500 मीटर की दूरी के अंदर कोई अंतरराज्यीय सीमा (Interstate) स्थित है ?	है
8	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक महत्व (Monuments/Archaeological) के स्थल स्थित है ?	नहीं

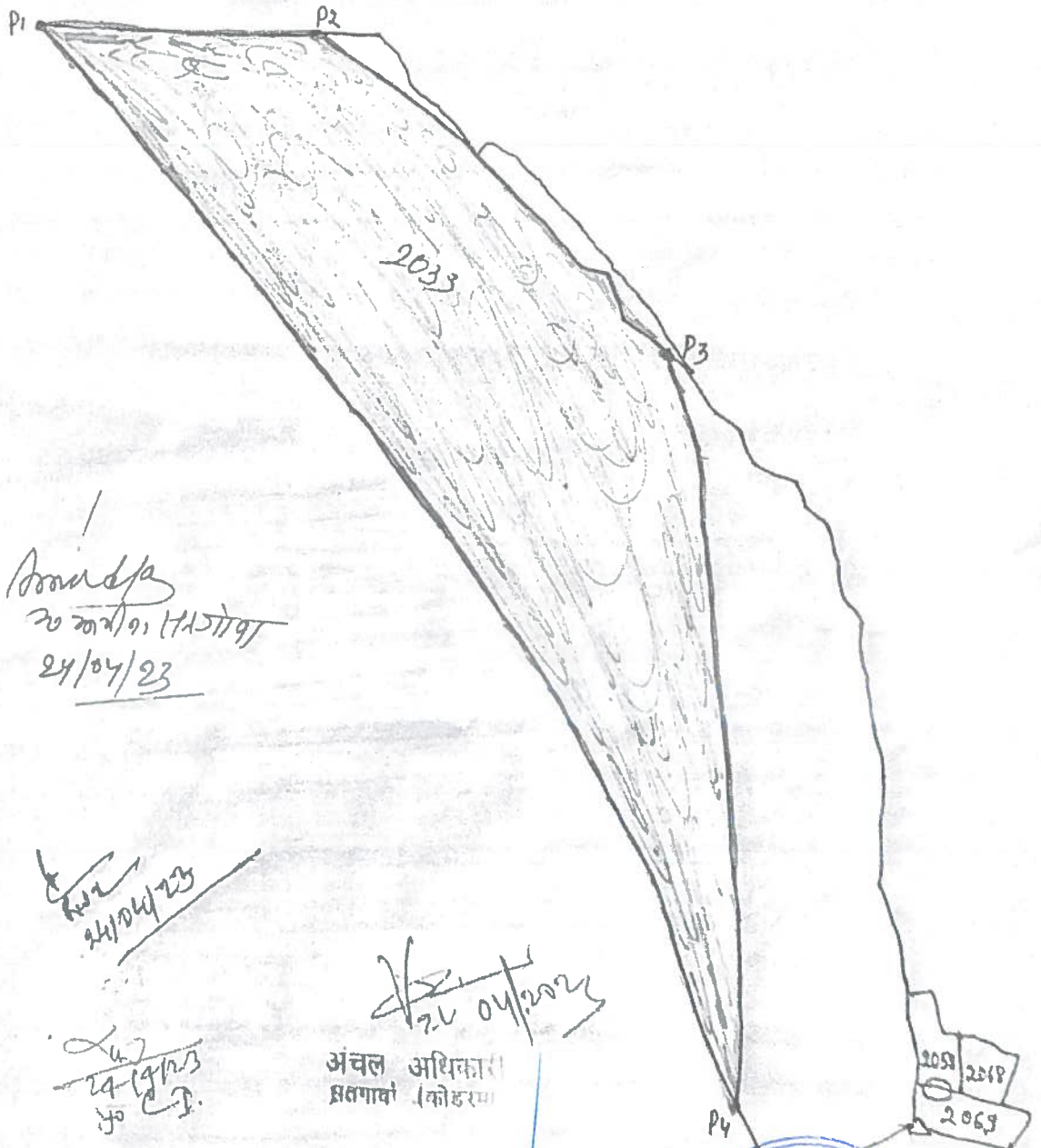


अचल अधिकारी
सतगाथा।

11/11 = भरचौरा - पाहर नं 02
थाना नं = 42
थाना = सलगावा
जिला = छैहरमा

११/११ - ११/११ - ११/११ (११)
२ २०३३ - २४.५७ (११)

यतिप्रति कृति पाहो लागे = □



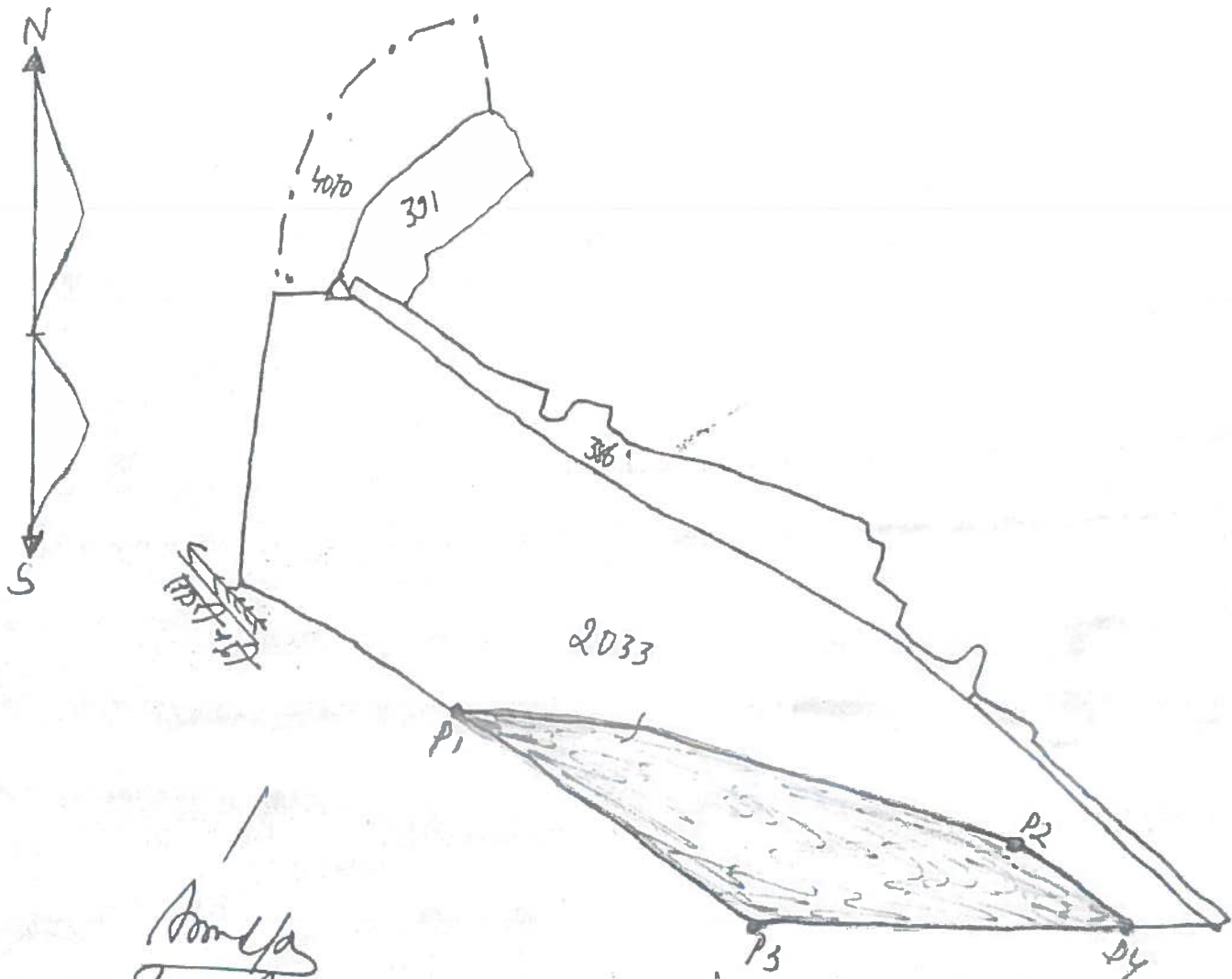
अंचल अधिकारी
सलगावा (कोहरमा)



सीमा = हरचोखी - गारुनच 1
 थाना नं० = 42
 थाना = रसगोवा
 पिन्ना = कोडरमा

क्षेत्रफल - (मौल - अप्पा (वर्ग)
 2 2033 - 3.50 (वर्ग)

पिन्ना/पिन्ना नदी पर डो/कोडरमा = 17



[Signature]
 क. कोडरमा/रसगोवा
 24/04/23

[Signature]
 अंचल अधिकारी
 रसगोवा (कोडरमा)



[Signature]
 [Signature]

24/04/23
 J. C.

[Signature]

To whom it may concern

This is to certify that all sitting criteria/provisions of JSPCB & SEIAA, JHARKHAND has been complied.

As per JSPCB notification no. B-21, Ranchi date 16.08.13

Sl. No	Minimum distance from	Distance (In meter)
1	NH	
2	SH	
3	Distance metal road	
4	Railway line	
5	River	
6	Any other river	
7	Habitation	
8	Forest/Forest land	

As per 58th-MOM-of-SEIAA Jharkhand

III. Revised format for PP to get the following Information/certifications from
Circle officer:-

क्रम सं०	निर्धारित बिन्दु	हाँ/नहीं
1	क्या आवेदित भूमि की कोटि राई खसिमान गंगा रजिस्टर-II में जंगल प्राप्ति के रूप में दर्ज है ?	हाँ.
2	क्या 500 मीटर की दूरी के अंदर कोई मानव बसावट (Habitation) स्थित है ?	हाँ.
3	क्या 500 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है ?	हाँ.
4	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है ?	हाँ.
5	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है ?	हाँ.
6	क्या 500 मीटर की दूरी के अंदर कोई शिक्लिसालय (Hospital Institute) स्थित है ?	हाँ.
7	क्या 500 मीटर की दूरी के अंदर कोई अंतरराज्यीय सीमा (Interstate) स्थित है ?	हाँ.
8	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक महत्व (Monuments/Archaeological) के स्थल स्थित है ?	हाँ.

21. 31.11.2023
C.H. ID

21. 31.11.2023
C.H. ID





प्लान नं०:- २९११ - (१०४) - २९११ (१०४)

— ०१ — १४.२५ (१०)

४३५ — २३.८७ (१०)

प्लान नं० २९११ - (१०४) - २९११ (१०४)

प्लान नं० २९११ - (१०४) - २९११ (१०४)

प्लान नं० २९११ - (१०४) - २९११ (१०४)



अवल अधिकारी (कोरम)

अवल अधिकारी (कोरम)

अवल अधिकारी (कोरम)

अवल अधिकारी (कोरम)

अवल अधिकारी (कोरम)

To whom it may concern

This is to certify that all sitting criteria/provisions of JSPCB & SEIAA, JHARKHAND has been complied.

As per JSPCB notification no. B-21, Ranchi date 16.08.13

Sl. No	Minimum distance from	Distance (in meter)
1	NH	
2	SH	
3	Distance metal road	
4	Railway line	
5	River	
6	Any other river	
7	Habitation	
8	Forest/Forest land	

As per 58th-MOM-of-SEIAA Jharkhand

मौजा - मरवा

प्लॉट नं० - 17

खण्ड - 03 क्षेत्र - 01

III. Revised format for PP to get the following information/certifications from

खण्ड - 23.59 ए.

Circle officer:-

जिल्हा - 18

क्रम सं०	निर्धारित बिन्दु	हाँ/नहीं
1	क्या आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर-II में जंगल झाडी के रूप में दर्ज है ?	नहीं
2	क्या 500 मीटर की दूरी के अंदर कोई गानव बसाहट (Habitation) स्थित है ?	नहीं
3	क्या 500 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है ?	नहीं
4	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है ?	नहीं
5	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है ?	नहीं
6	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital Institute) स्थित है ?	नहीं
7	क्या 500 मीटर की दूरी के अंदर कोई अंतरराज्यीय सीमा (Interstate) स्थित है ?	नहीं
8	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक महत्व (Monuments/Archaeological) के स्थल स्थित है ?	नहीं

24/04/2023
अंचल अधिकारी
राजगीर

24/04/2023
अंचल अधिकारी
राजगीर

24/04/2023
अंचल अधिकारी
राजगीर



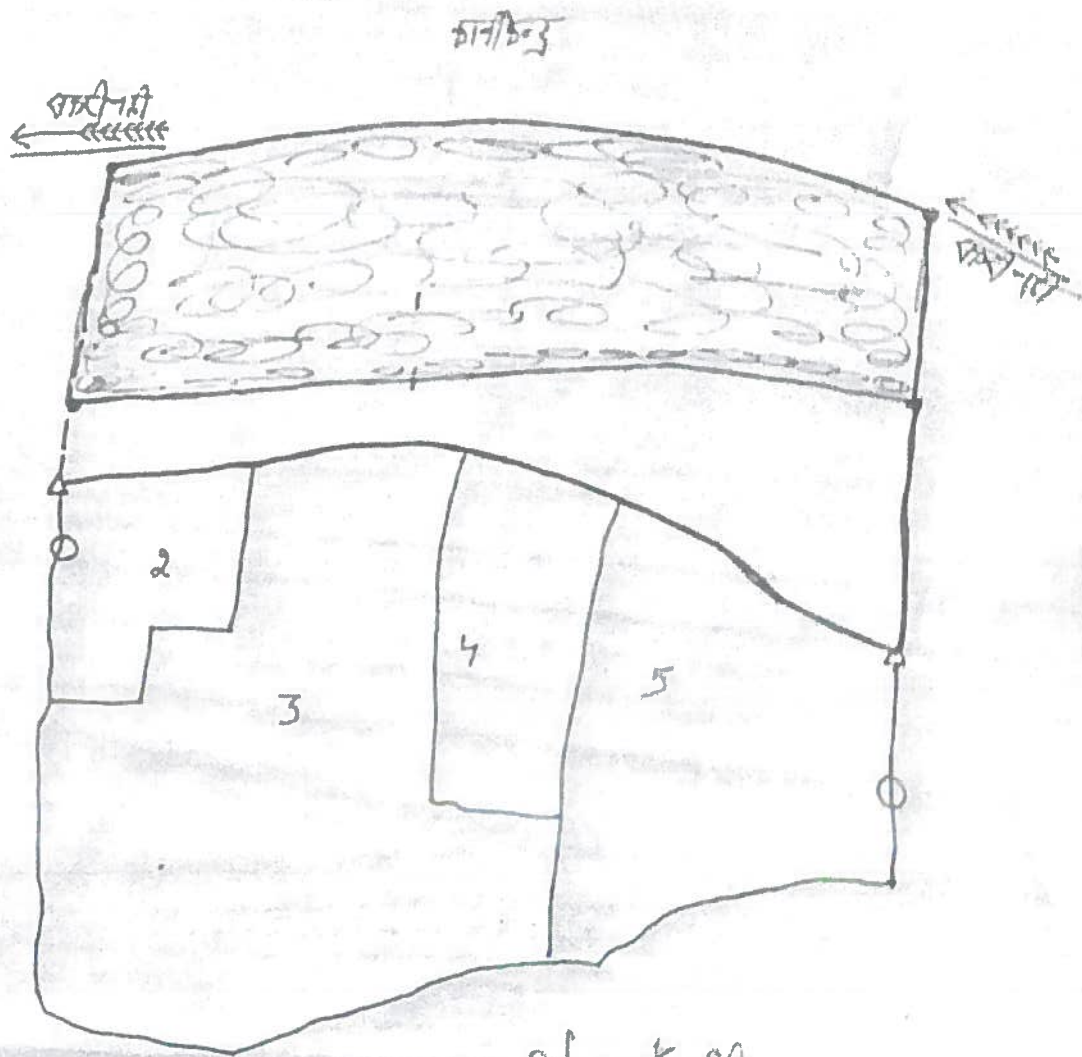
भोष्पा = भट्ठा
 धाना नं० = 27
 धाना = 2450/97
 पिछा = मोडरमा

पेमाना:-

रजत - खेतप - रजत (रज)

03 - 01 - 23-59 ए०

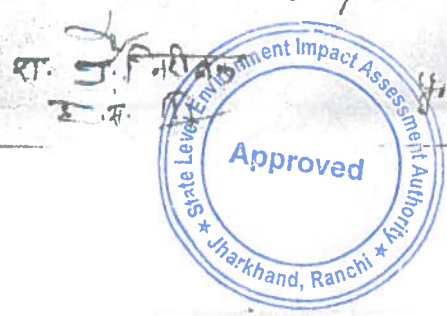
पिनाकि धनि प्र रेख (काल) = □



1
 Arund/CS
 24/04/23

24/04/2023

अवल अधिकारी
 भवगाव (कोडरमा)



अंचल निरीक्षक
 भवगाव

To whom it may concern

This is to certify that all sitting criteria/provisions of JSPCB & SEIAA, JHARKHAND has been complied.

As per JSPCB notification no. B-21, Ranchi date 16.08.13

Sl. No	Minimum distance from	Distance (in meter)
1	NH	
2	SH	
3	Distance metal road	
4	Railway line	
5	River	
6	Any other river	
7	Habitation	
8	Forest/Forest land	

As per 58th-MOM-of-SEIAA Jharkhand

III. Revised format for PP to get the following information/certifications from Circle officer:-

क्रम सं०	निर्धारित बिन्दु	हाँ/नहीं
1	क्या आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर-II में जंगल झाडी के रूप में दर्ज है ?	नहीं
2	क्या 500 मीटर की दूरी के अंदर कोई मानव बसाहट (Habitation) स्थित है ?	हाँ
3	क्या 500 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है ?	नहीं
4	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है ?	नहीं
5	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है ?	नहीं
6	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital Institute) स्थित है ?	नहीं
7	क्या 500 मीटर की दूरी के अंदर कोई अंतरराज्यीय सीमा (Interstate) स्थित है ?	नहीं
8	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक महत्व (Monuments/Archaeological) के स्थल स्थित है ?	नहीं

(Signature)
च. 30 निदेशक
एच-1

(Signature)
श. मधु निदेशक
संगवा

(Signature)
अचल अधिकारी
सतगावां।



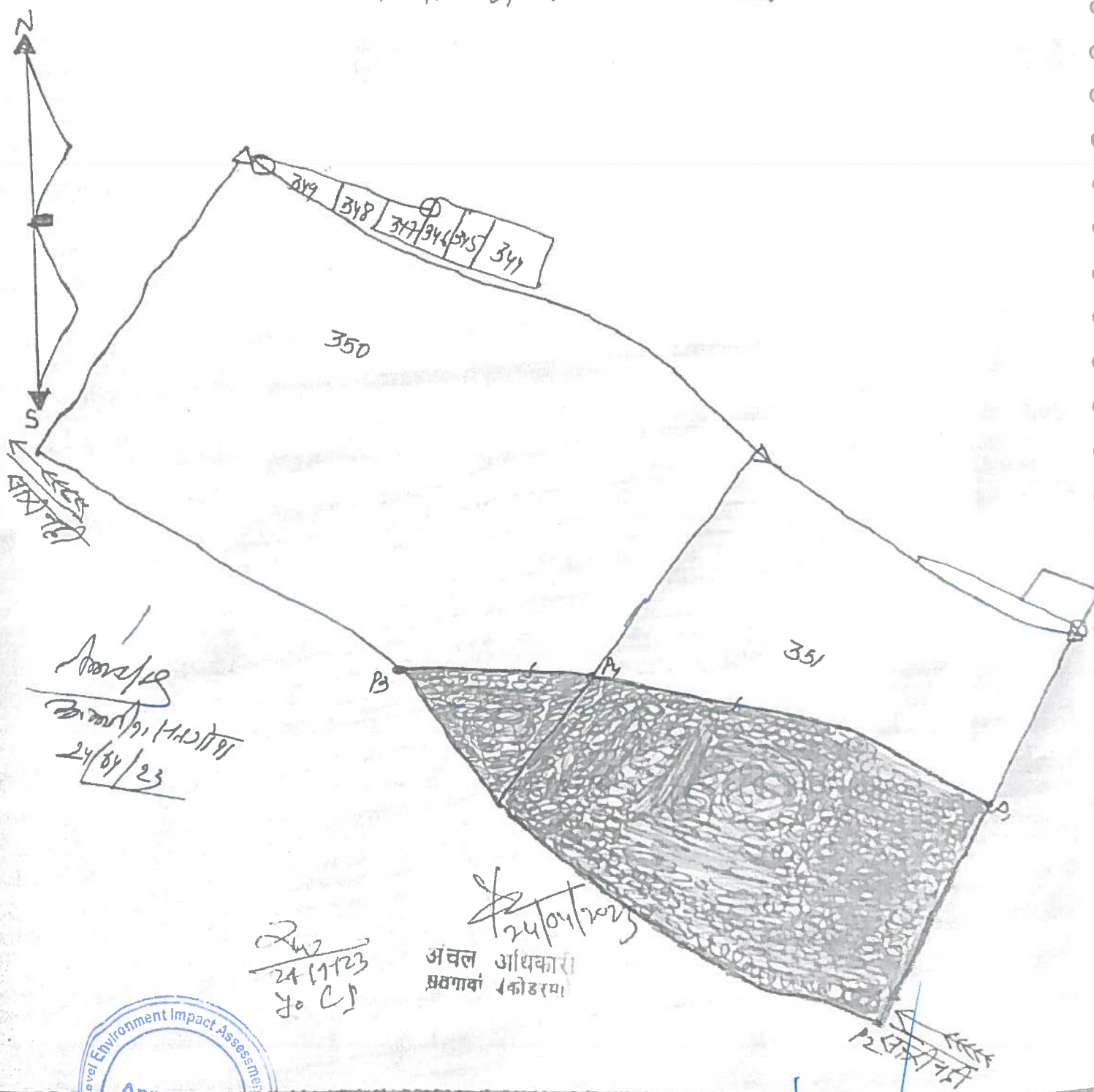
मोजा = रजौर
 मोजा नं० = 11
 मोजा - सखीगा
 मोजा = फीडरमा

२९/११ - (मोजा - रजौर) (५०)

52 350 - 2.23 Hm

351 - 15.47 Hm

पानागिरी कुमि पा ले लागा =



24/11/23
 Y.C.J.

अचल अधिकारी
 सखीगा फीडरमा

रजौर

To whom it may concern

This is to certify that all sitting criteria/provisions of JSPCB & SEIAA, JHARKHAND has been complied.

As per JSPCB notification no. B-21, Ranchi date 16.08.13

Sl. No	Minimum distance from	Distance (in meter)
1	NH	
2	SH	
3	Distance metal road	
4	Railway line	
5	River	
6	Any other river	
7	Habitation	
8	Forest/Forest land	

As per 58th-MOM-of-SEIAA Jharkhand

मौजा - धुइदोई, खाना सं. 12

खाना - 5 बिस्वा - 64 बिस्वा

III. Revised format for PP to get the following information/certifications from Circle officer:-

रकबा - 8.52 ए.

क्रम सं०	निर्धारित बिन्दु	हाँ/नहीं
1	क्या आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर-II में जंगल झाडी के रूप में दर्ज है ?	नहीं
2	क्या 500 मीटर की दूरी के अंदर कोई मानव बसाहट (Habitation) स्थित है ?	नहीं
3	क्या 500 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है ?	नहीं
4	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है ?	नहीं
5	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है ?	नहीं
6	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital Institute) स्थित है ?	नहीं
7	क्या 500 मीटर की दूरी के अंदर कोई अंतरराज्यीय सीमा (Interstate) स्थित है ?	नहीं
8	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक महत्व (Monuments/Archaeological) के स्थल स्थित है ?	नहीं

K. D. Singh
व.अ. निरीक्षक

Dr. Anil Kumar Singh
अ.अ. निरीक्षक

अंचल अधिकारी,
सतगावां।



मौजा - धौड.दौर

धाना न० = 18

धाना = सतजोवा

पिआ = कोडरमा

पैमाना:

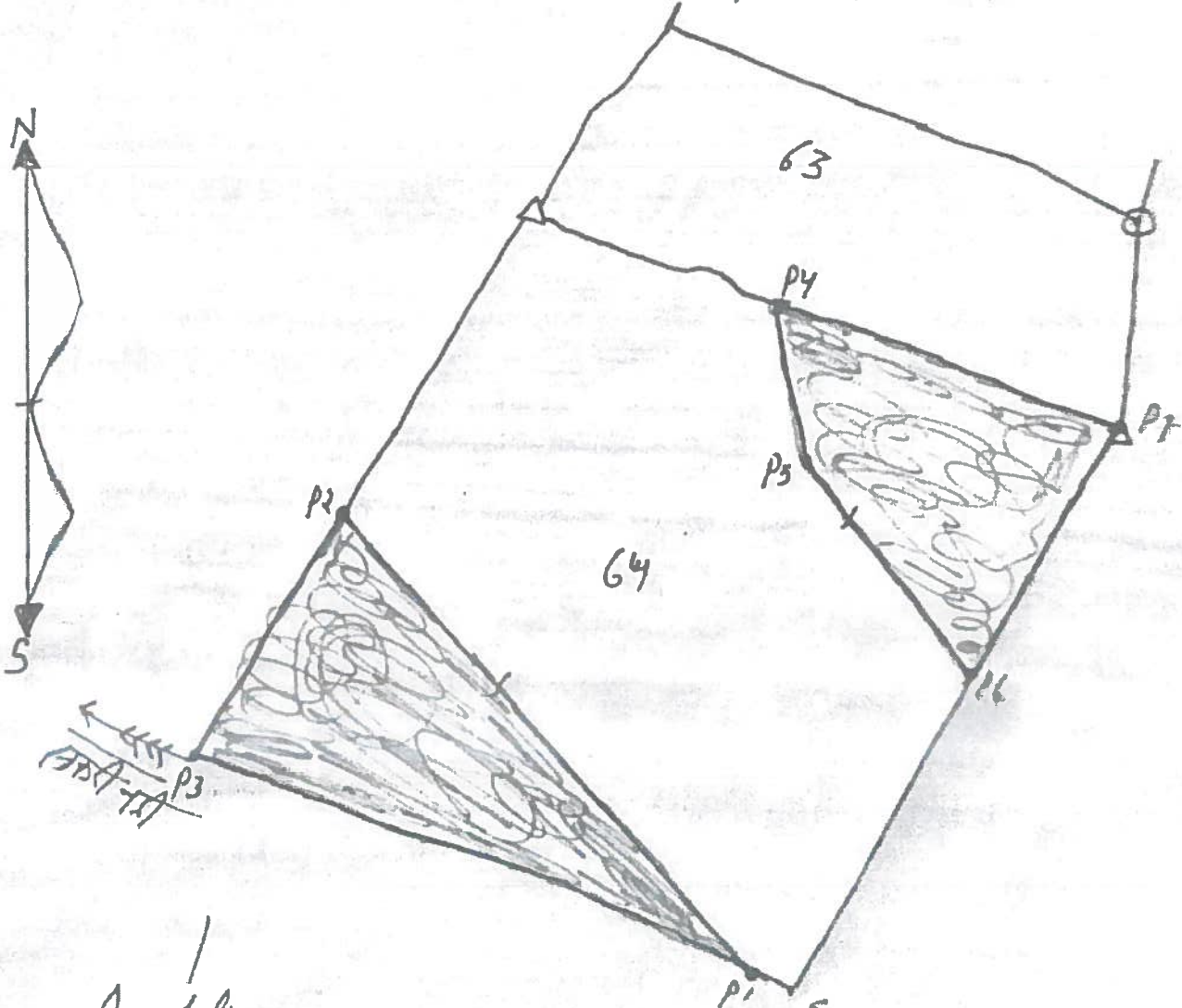
रवाता - बेमय - रपवा (एच)

05

64

08.52 एच

युता/विन युनि पा रेज =



म. नं. 19, म. 19/19

24/04/23

रा. प्र. निरीक्षक

रा. प्र. निरीक्षक

रा. प्र. निरीक्षक
रा. प्र. निरीक्षक

अंचल अधिकारी
मसगावां (कोडरमा)



To whom it may concern

This is to certify that all sitting criteria/provisions of JSPCB & SEIAA, JHARKHAND has been complied.

As per JSPCB notification no. B-21, Ranchi date 16.08.13

Sl. No	Minimum distance from	Distance (in meter)
1	NH	
2	SH	
3	Distance metal road	
4	Railway line	
5	River	
6	Any other river	
7	Habitation	
8	Forest/Forest land	

As per 58th-MOM-of-SEIAA Jharkhand

प्रम- धातु... चक्र है 38

खण्ड-41

III. Revised format for PP to get the following information/certifications from Circle officer:-

क्रम सं०	निर्धारित बिन्दु	हाँ/नहीं
1	क्या आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर-II में जंगल झाडी के रूप में दर्ज है ?	नहीं
2	क्या 500 मीटर की दूरी के अंदर कोई मानव बसाहट (Habitation) स्थित है ?	हाँ
3	क्या 500 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है ?	नहीं
4	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है ?	नहीं
5	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है ?	हाँ
6	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital Institute) स्थित है ?	नहीं
7	क्या 500 मीटर की दूरी के अंदर कोई अंतरराज्यीय सीमा (Interstate) स्थित है ?	नहीं
8	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक महत्व (Monuments/Archaeological) के स्थल स्थित है ?	नहीं

(Signature)

र. अ. गिरिजा

(Signature)
अ. अ. गिरिजा

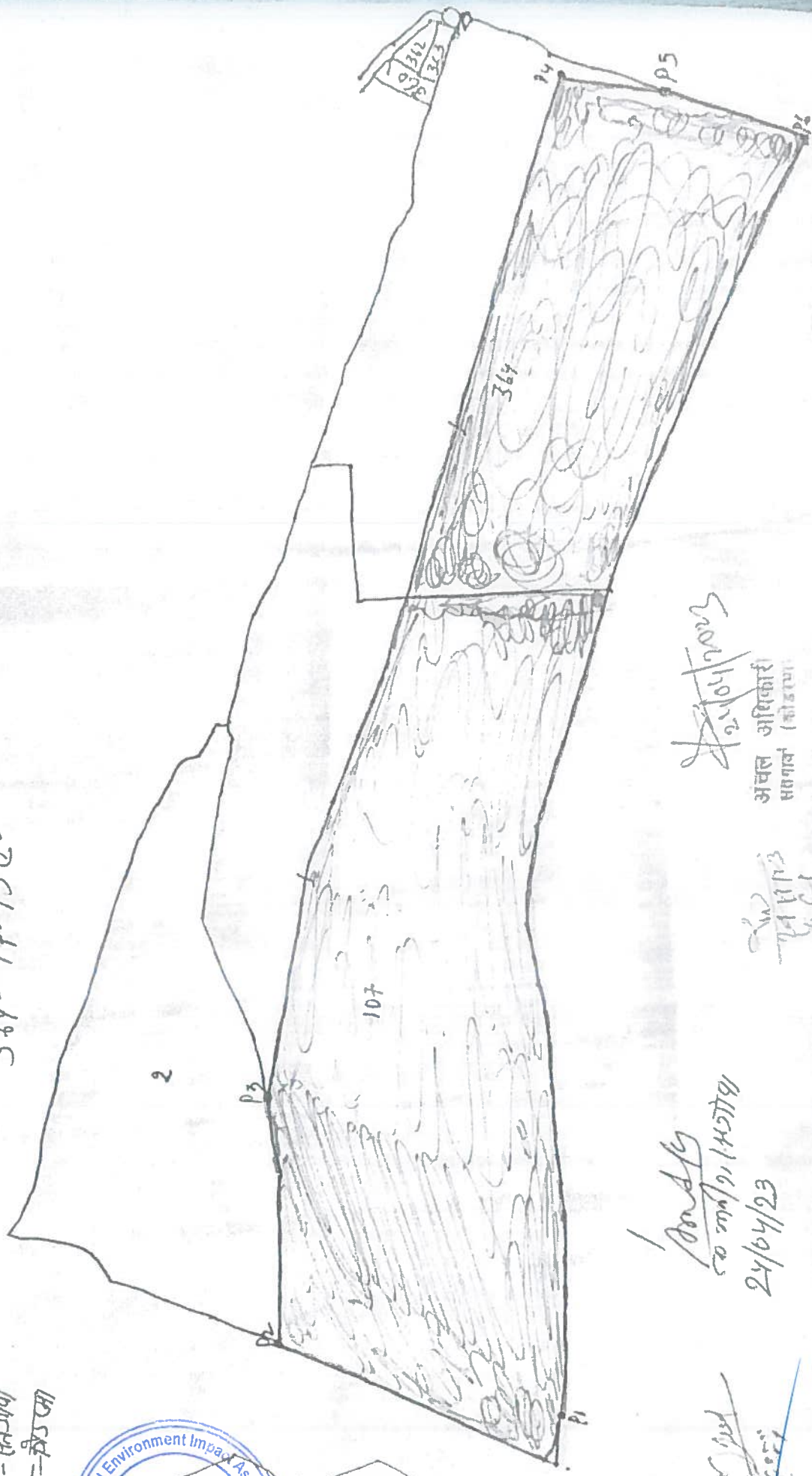
(Signature)
24/04/2013

अंचल अधिकारी
सतगावां।



२१॥ - ८०१० - २५११ (८०)
 ५१ १०७ - ३५२९ (८०)
 ३६५ - १७०७५ (८०)

भौम/ = धरमधर
 भौम/नं = ३८
 थाना = (मजोवा)
 जिला = जैसल



/Randy
 २० मई २०१४
 २५/०५/२३

अचल अधिकारी
 भौम/नं (को डरवा)

२५/०५/२३
 ५.८१

कार्यालय अंचल अधिकारी, जयनगर (कोडरमा)

प्रेषक,

पत्रांक.....319

दिनांक 27/04/2023

सेवा में,

अंचल अधिकारी,
जयनगर।

जिला खनन पदाधिकारी,
कोडरमा।

विषय:-

कोडरमा जिला हेतु बालू खनिज के DSR (Draft) में प्रस्तावित Category-II के बालूघाट का मानचित्र उपलब्ध कराने के संबंध में।

प्रसंग :-
महाशय,

भवदीय पत्रांक 813/एम0 दिनांक 26.04.2023

उपर्युक्त प्रसंगाधीन विषयक के संबंध में कहना है कि कोडरमा जिला हेतु बालू खनिज के DSR (Draft) में प्रस्तावित Category-II के बालूघाट के बावत से संबंधित मानचित्र (1) मौजा-बदुलिया (2) ओरवाटांड (3) अम्बाडीह का मानचित्र तैयार कर इस पत्र के साथ संलग्न कर भेजी जा रही है।

अनुलग्नक-यथोक्त।

विश्वासभाजन,

अंचल अधिकारी,
जयनगर।



कार्यालय अंचल अधिकारी, जयनगर (कोडरमा)

परिशिष्ट-1

क्र० सं०	निर्धारित बिन्दु	प्रतिवेदन
1	क्या आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर-2 में जंगल झाड़ी के रूप में दर्ज	नही
2	क्या 500 मीटर की दूरी के अंदर कोई मानव वसाहत (Habitation) स्थित है ?	नही
3	क्या 500 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है ?	नही
4	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है ?	नही
5	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है ?	नही
6	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है ?	नही
7	क्या 500 मीटर की दूरी के अंदर कोई अंतराज्यीय सीमा (Interstate) स्थित है ?	नही
8	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक महत्व (Monuments/Archaeological) के स्थल स्थित है ?	नही

मौजा-बदुलिया, थाना नं० 163 खाता सं० 24, प्लॉट सं० 1 रकबा 4.70 ए० भूमि गैरमजरूआ खास आम पंजी के अनुसार किस्म नदी दर्ज है। भूमि गैरमजरूआ खास खाते कि है।

(22-04-2021)
अंचल अधिकारी,
जयनगर।



कार्यालय अंचल अधिकारी, जयनगर (कोडरमा)

परिशिष्ट-1

क्र० सं०	निर्धारित बिन्दु	प्रतिवेदन
1	क्या आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर-2 में जंगल झाडी के रूप में दर्ज	नही
2	क्या 500 मीटर की दूरी के अंदर कोई मानव वसाहत (Habitation) स्थित है ?	नही
3	क्या 500 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है ?	नही
4	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है ?	नही
5	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है ?	नही
6	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है ?	नही
7	क्या 500 मीटर की दूरी के अंदर कोई अंतराज्यीय सीमा (Interstate) स्थित है ?	नही
8	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक महत्व (Monuments/Archaeological) के स्थल स्थित है ?	नही

मौजा-बदुलिया, थाना नं० 163 खाता सं० 24, प्लॉट सं० 286 रकबा 10.25 ए० भूमि गैरमजरूआ खास आम पंजी के अनुसार किस्म नदी दर्ज है। भूमि गैरमजरूआ खास खाते कि है।

27-04-2023
अंचल अधिकारी,
जयनगर।



कार्यालय अंचल अधिकारी, जयनगर (कोडरमा)

परिशिष्ट-1

क्र० सं०	निर्धारित बिन्दु	प्रतिवेदन
1	क्या आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर-2 में जंगल झाड़ी के रूप में दर्ज	नही
2	क्या 500 मीटर की दूरी के अंदर कोई मानव वसाहट (Habitation) स्थित है ?	नही
3	क्या 500 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है ?	नही
4	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है ?	नही
5	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है ?	नही
6	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है ?	नही
7	क्या 500 मीटर की दूरी के अंदर कोई अंतराज्यीय सीमा (Interstate) स्थित है ?	नही
8	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक महत्व (Monuments/Archaeological) के स्थल स्थित है ?	नही

मौजा-बदुलिया, थाना नं० 163 खाता सं० 24, प्लॉट सं० 916 रकबा 7.90 ए० भूमि गैरमजरूआ खास आम पंजी के अनुसार किस्म नदी दर्ज है। भूमि गैरमजरूआ खास खाते कि है।

अंचल अधिकारी,
जयनगर।



कार्यालय अंचल अधिकारी, जयनगर (कोडरमा)

परिशिष्ट-1

क्र० सं०	निर्धारित बिन्दु	प्रतिवेदन
1	क्या आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर-2 में जंगल झाड़ी के रूप में दर्ज	नही
2	क्या 500 मीटर की दूरी के अंदर कोई मानव वसाहत (Habitation) स्थित है ?	नही
3	क्या 500 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है ?	नही
4	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है ?	नही
5	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है ?	नही
6	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है ?	नही
7	क्या 500 मीटर की दूरी के अंदर कोई अंतराज्यीय सीमा (Interstate) स्थित है ?	नही
8	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक महत्व (Monuments/Archaeological) के स्थल स्थित है ?	नही

मौजा-बदुलिया, थाना नं० 163 खाता सं० 24, प्लॉट सं० 637/925 रकबा 9.66 ए० मूमि गैरमजरूआ खास आम पंजी के अनुसार किस्म नदी दर्ज है। मूमि गैरमजरूआ खास खाते कि है।

अंचल अधिकारी,
जयनगर।



कार्यालय अंचल अधिकारी, जयनगर (कोडरमा)

परिशिष्ट-1

क्र० सं०	निर्धारित बिन्दु	प्रतिवेदन
1	क्या आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर-2 में जंगल झाड़ी के रूप में दर्ज	नही
2	क्या 500 मीटर की दूरी के अंदर कोई मानव वसाहत (Habitation) स्थित है ?	नही
3	क्या 500 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है ?	नही
4	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है ?	नही
5	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है ?	नही
6	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है ?	नही
7	क्या 500 मीटर की दूरी के अंदर कोई अंतराज्यीय सीमा (Interstate) स्थित है ?	नही
8	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक महत्व (Monuments/Archaeological) के स्थल स्थित है ?	नही

मौजा-ओरवाटांड, थाना नं० 102 खाता सं० 7, प्लॉट सं० 86 रकबा 8.60 ए० भूमि गैरमजरूआ खास आम पंजी के अनुसार किस्म नदी दर्ज है। भूमि गैरमजरूआ खास खाते कि है।

12-04-2018
अंचल अधिकारी,
जयनगर।



कार्यालय अंचल अधिकारी, जयनगर (कोडरमा)

परिशिष्ट-1

क्र० सं०	निर्धारित बिन्दु	प्रतिवेदन
1	क्या आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर-2 में जंगल झाड़ी के रूप में दर्ज	नही
2	क्या 500 मीटर की दूरी के अंदर कोई मानव वसाहत (Habitation) स्थित है ?	नही
3	क्या 500 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है ?	नही
4	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है ?	नही
5	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है ?	नही
6	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है ?	नही
7	क्या 500 मीटर की दूरी के अंदर कोई अंतराज्यीय सीमा (Interstate) स्थित है ?	नही
8	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक महत्व (Monuments/Archaeological) के स्थल स्थित है ?	नही

हल्का कार्यालय में उपलब्ध गैरमजरुआ आम/खास पंजी में मौजा-अम्बाडीह, थाना नं० 167 खाता सं० 826 प्लॉट सं० 86 दर्ज नहीं है। लेकिन ऑनलाईन नक्सा में प्लॉट सं० 826 किस्म नदी दर्ज है।

अंचल अधिकारी,
जयनगर।



Handwritten:
13.4.23

कार्यालय अंचल अधिकारी, जयनगर (कोडरमा)

पत्रांक 224/

दिनांक 13/04/2023

प्रेषक,

अंचल अधिकारी,

जयनगर।

सेवा में,

जिला खनन पदाधिकारी,

कोडरमा।

विषय :-

वालू खनिज के DSR में प्रस्तावित Category-II के बालूघाट के बावत प्रतिवेदन का प्रेषण।

पत्रांक :-

पत्रांक 709/एम0 दिनांक 06/04/2023

महाशय,

उपर्युक्त विषयक एवं प्रासंगिक पत्र के संबंध में कहना है कि संलग्न ग्रामीण मानचित्र के अनुसार बालूघाट के बावत मौजा, खाता संख्या, प्लॉट संख्या, रकवा तथा ग्रामीण मानचित्र में प्रस्तावित बालूघाट को चिह्नित करते हुए प्रतिवेदन इस पत्र के साथ भेजी जाती है।

अनुलग्नक :- यथोक्त।

विश्वासभाजन

अंचल अधिकारी,
जयनगर।

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13/4/23



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To whom it may concern

This is to certify that all sitting criteria/provisions of JSPCB & SEIAA, JHARKHAND has been complied.

As per JSPCB notification no. B-21, Ranchi dated 16/08/13.

Sl. No	Minimum distance from	Distance (in meter)
1	NH	100
2	SH	100
3	Distance metal road	50
4	Railway line	100
5	River	100
6	Any other river	100
7	Habitation	200
8	Forest/ Forest land	400

As per 58th-MOM-of-SEIAA Jharkhand

III. Revised format for PP to get the following information/certification from Circle Officer:-

क्रम सं०	निर्धारित बिन्दु	हाँ/नहीं
1.	क्या आवेदित भूमि की कोटि सर्व खतियान यथा रजिस्टर-II में जंगल झाड़ी के रूप में दर्ज है?	नहीं
2.	क्या 500 मीटर की दूरी के अंदर कोई मानव बसाहट (Habitation) स्थित है?	नहीं
3.	क्या 500 मीटर की दूरी के अंदर कोई जलयोजन निकाय (Dam/Reservoir) स्थित है?	नहीं
4.	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है?	नहीं
5.	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6.	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है?	नहीं
7.	क्या 10 कि०मी० की परिधि में कोई अंतराज्यीय (Interstate) सीमा है?	नहीं
8.	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुस्तकालय (Monuments/Archaeological) महत्व के स्थल स्थित है?	नहीं

यह प्रमाणित है कि उपरोक्त विवरण सत्य है।
 जिला- जिला, भागा सं- 144, प्लॉट सं- 1502, विस्तार- 14.38 एकड़, डिजिट- 118
 नदी दर्ज है।

R.S.E

(Signature)

(Signature)

12-04-2023

अचल अधिकारी
जयनगर (कोडरमा)



To whom it may concern

This is to certify that all sitting criteria/provisions of JSPCB & SEIAA, JHARKHAND has been complied.

As per JSPCB notification no. B-21, Ranchi dated 16/08/13.

Sl. No	Minimum distance from	Distance (in meter)
1	NH	100
2	SH	100
3	Distance metal road	50
4	Railway line	100
5	River	100
6	Any other river	100
7	Habitation	200
8	Forest/ Forest land	400

As per 58th-MOM-of-SEIAA Jharkhand

III. Revised format for PP to get the following information/certification from Circle Officers:-

क्रम सं०	निर्धारित बिन्दु	हाँ/नहीं
1.	क्या आवेदित भूमि की कोई संपे खनिज या खनिज-II में जंगल झाड़ी के रूप में दर्ज है?	नहीं
2.	क्या 500 मीटर की दूरी के अंदर कोई मानव बसावट (Habitation) स्थित है?	नहीं
3.	क्या 500 मीटर की दूरी के अंदर कोई जलयोजन (Dam/Reservoir) स्थित है?	नहीं
4.	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है?	नहीं
5.	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6.	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है?	नहीं
7.	क्या 10 कि०मी० की परिधि में कोई अंतरराज्यीय (Interstate) सीमा है?	नहीं
8.	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक (Monuments/Archaeological) महत्व के स्थल स्थित है?	नहीं

हस्ताक्षरित न 34200 औरगला/जा टाक पंजी के अग्रसार भोला - गिलोवरी
ना सं- 149, जा सं- 117, ला सं- 1502, रका - 14-28 एका बिस् - गी
द्वि है।

R.S.I

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12-04-2013



यस आधिकार
नगर (कोडरमा)

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To whom it may concern

This is to certify that all sitting criteria/provisions of JSPCB & SEIAA, JHARKHAND has been complied.

As per JSPCB notification no. B-21, Ranchi dated 16/08/13.

Sl. No	Minimum distance from	Distance (in meter)
1	NH	100
2	SH	100
3	Distance metal road	50
4	Railway line	100
5	River	100
6	Any other river	100
7	Habitation	200
8	Forest/ Forest land	400

As per 58th-MOM-of-SEIAA Jharkhand

III. Revised format for PP to get the following information/certification from Circle Officer:-

क्रम सं०	निर्धारित बिन्दु	हाँ/नहीं
1.	क्या आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर-II में जंगल झाड़ी के रूप में दर्ज है?	नहीं
2.	क्या 500 मीटर की दूरी के अंदर कोई मानव बसावट (Habitation) स्थित है?	नहीं
3.	क्या 500 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है?	नहीं
4.	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है?	नहीं
5.	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6.	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है?	नहीं
7.	क्या 10 कि०मी० की परिधि में कोई अंतरराज्यीय (Interstate) सीमा है?	नहीं
8.	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक (Monuments/Archaeological) महत्व के स्थल स्थित है?	नहीं

हल्का कार्बलिंग में उपलब्ध गैरमधाहता खास एंजी ई वं अयुक्ता जोला- तिलोहरी, भागा
 फे - 144, चारा फे - 113, लीट फे - 1502, रूका - 14-38 रूका, किरा - नदी
 रूका

R-5-1

f. Arjun

Arjun

12-04-2023

नचल अधिकारी
 जयनगर (कोडरमा)



To whom it may concern

This is to certify that all sitting criteria/provisions of JSPCB & SEIAA, JHARKHAND has been complied.

As per JSPCB notification no. B-21, Ranchi dated 16/08/13.

Sl. No	Minimum distance from	Distance (in meter)
1	NH	100
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3	Distance metal road	50
4	Railway line	100
5	River	100
6	Any other river	100
7	Habitation	200
8	Forest/ Forest land	400

As per 58th-MOM-of-SEIAA Jharkhand

III. Revised format for PP to get the following information/certification from Circle Officer:-

क्र. सं.	निर्धारित बिन्दु	हो/नही
1.	क्या आवेदित भूमि की कोई सर्वे खतियान यथा रजिस्टर-II में जंगल झाड़ी के रूप में दर्ज है?	नही
2.	क्या 500 मीटर की दूरी के अंदर कोई मानव बसाहट (Habitation) स्थित है?	नही
3.	क्या 500 मीटर की दूरी के अंदर कोई जलाशय निकाय (Dam/Reservoir) स्थित है?	नही
4.	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है?	नही
5.	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नही
6.	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है?	नही
7.	क्या 10 कि०मी० की परिधि में कोई अंतरराज्यीय (Interstate) सीमा है?	नही
8.	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक (Monuments/Archaeological) महत्व के स्थल स्थित है?	नही

प्रोजेक्ट एला वर्कालय में 34.6204 और नजदिक एला रूली के अलावा नौजा - गिलोडरी, धरना पो - 144, छारा पो - 117, लिट पो - 1502, रडला - 14.38 एका, डिग - नदी का 17

R.S.T

Pravin

12-09-2013

12-09-2013

मंचल अधिकारी
नयनगर (कोडरमा)



R

L

To whom it may concern

This is to certify that all sitting criteria/provisions of JSPCB & SEIAA, JHARKHAND has been complied.

As per JSPCB notification no. B-21, Ranchi dated 16/08/13.

Sl. No	Minimum distance from	Distance (in meter)
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2	SH	100
3	Distance metal road	50
4	Railway line	100
5	River	100
6	Any other river	100
7	Habitation	200
8	Forest/ Forest land	400

As per 58th-MOM-of-SEIAA Jharkhand

III. Revised format for PP to get the following information/certification from Circle Officers:-

क्रम सं.	विचारित बिन्दु	हाँ/नहीं
1.	क्या आवेदित भूमि की फोटो सर्वे प्रतिमान क्या रजिस्टर-II में जगस हावी के रूप में दर्ज है?	नहीं
2.	क्या 500 मीटर की दूरी के अंदर कोई मानव बसावट (Habitation) स्थित है?	नहीं
3.	क्या 500 मीटर की दूरी के अंदर कोई जलय निक्षेप (Dam/Reservoir) स्थित है?	नहीं
4.	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है?	नहीं
5.	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6.	क्या 500 मीटर की दूरी के अंदर कोई पिकेरालय (Hospital) स्थित है?	नहीं
7.	क्या 10 कि०मी० की परिधि में कोई अंतराज्यीय (Interstate) सीमा है?	नहीं
8.	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक (Monuments/Archaeological) महत्व के स्थल स्थित है?	नहीं

हस्ताक्षरित और उपर्युक्त और मालूमता प्राप्त कि कि अनुसूच मोना - सी. गिलोवरी, राजा
 दिनांक - 14/4, 2013 को - 117, 622, 1502, रजमा - 14-38, एच, डिप्ट - नदी
 दिनांक 01/

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R.J.I

[Signature]

[Signature]

[Signature]
12-04-13

प्रचल अधिकारी
 मयनगर (कोडरमा)



[Signature]

To whom it may concern

This is to certify that all sitting criteria/provisions of JSPCB & SEIAA, JHARKHAND has been complied.

As per JSPCB notification no. B-21, Ranchi dated 16/08/13.

Sl. No	Minimum distance from	Distance (in meter)
1	NH	100
2	SH	100
3	Distance metal road	50
4	Railway line	100
5	River	100
6	Any other river	100
7	Habitation	200
8	Forest/ Forest land	400

As per 58th-MOM-of-SEIAA Jharkhand

III. Revised format for PP to get the following information/certification from Circle Officers-

क्रम सं०	निर्धारित बिन्दु	हाँ/नहीं
1.	क्या आवेदित भूमि की कोट सर्वे खासियान दया राजस्तर-II में जंगल झाडी के रूप में दर्ज है?	नहीं
2.	क्या 500 मीटर की दूरी के अंदर कोई मानव बसाहट (Habitation) स्थित है?	नहीं
3.	क्या 500 मीटर की दूरी के अंदर कोई जलोय निकाय (Dam/Reservoir) स्थित है?	नहीं
4.	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है?	नहीं
5.	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6.	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है?	नहीं
7.	क्या 10 कि०मी० की परिसर में कोई अंतराज्यीय (Interstate) सीमा है?	नहीं
8.	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुस्तारवाय (Monuments/Archaeological) महत्व के स्थल स्थित है?	नहीं

हल्का कार्नालम के उपलब्ध गैरवाणिज्य खास पत्ती के अनुसार भोला-देहराद्वि, भाग सं०-193, खारा सं०-71, प्लॉट सं०-1556, रकबा-3.00 एकड़, बि०-144/44

By R-3.5

[Signature]

[Signature]

12-04-23

अचल अधिकारी
जयनगर (कोडरमा)



[Signature]

[Signature]

To whom it may concern

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5	River	100
6	Any other river	100
7	Habitation	200
8	Forest/ Forest land	400

As per 58th-MOM-of-SEIAA Jharkhand

III. Revised format for PP to get the following information/certification from Circle Officer:-

क्रम सं०	निर्धारित बिन्दु	हाँ/नहीं
1.	क्या आयेदित भूमि की कोटि सर्वे खतिधान यथा रजिस्टर-II में जंगल झाड़ी के रूप में दर्ज है?	नहीं
2.	क्या 500 मीटर की दूरी के अंदर कोई मानव बसाइट (Habitation) स्थित है?	नहीं
3.	क्या 500 मीटर की दूरी के अंदर कोई जलसिंचन निकाय (Dam/Reservoir) स्थित है?	नहीं
4.	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है?	नहीं
5.	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6.	क्या 500 मीटर की दूरी के अंदर कोई अस्पताल (Hospital) स्थित है?	नहीं
7.	क्या 10 कि०मी० की परिधि में कोई अंतराज्यीय (Interstate) सीमा है?	नहीं
8.	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुस्तकालय (Monuments/Archaeological) महत्व के स्थल स्थित है?	नहीं

हस्ताक्षर अनालय में उपलब्ध और मजबूत हवा से पंजी के अक्षरों को अक्षरों में - लेहरापीट,
मोना - 143, एलास में - 71, लॉट में - 1586, रचना - 3.00 एड्स, डिस्क - नदी दक्षिण

[Signature]
R.S.S

[Signature]

[Signature]

[Signature]
मंचल अधिकारी
नयनगर (कोडरमा)



To whom it may concern

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4	Railway line	100
5	River	100
6	Any other river	100
7	Habitation	200
8	Forest/ Forest land	400

As per 58th-MOM-of-SEIAA Jharkhand

III. Revised format for PP to get the following information/certification from Circle Officer:-

क्रम सं०	निर्धारित बिन्दु	हाँ/नहीं
1.	क्या आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर-II में जंगल झाड़ी के रूप में दर्ज है?	नहीं
2.	क्या 500 मीटर की दूरी के अंदर कोई मानव बसाहट (Habitation) स्थित है?	नहीं
3.	क्या 500 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है?	नहीं
4.	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है?	नहीं
5.	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6.	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है?	नहीं
7.	क्या 10 कि०मी० की परिसर में कोई अंतराज्यीय (Interstate) सीमा है?	नहीं
8.	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक (Monuments/Archaeological) महत्व के स्थल स्थित है?	नहीं

हस्ताक्षरित एवं प्रमाणित होरनजका आग एमि 3 अक्षर नो. - 1051 रीमा, पारा
दि- 192, खाना सं- 39, लिट 00 - 843, रकबा - 4.4253, गिरा - अक्षर नदी
दस्तावेज



पंचल अधिकारी
गयनगर (कोडरमा)

To whom it may concern

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6	Any other river	100
7	Habitation	200
8	Forest/ Forest land	400

As per 58th-MOM-of-SEIAA Jharkhand

III. Revised format for PP to get the following information/certification from Circle Officer:

क्रम सं०	निर्धारित बिन्दु	हाँ/नहीं
1.	यदि आवेदित भूमि की कोई सर्वे खातिमान यथा रजिस्टर-II में जंगल झाड़ी के रूप में दर्ज है?	नहीं
2.	यदि 500 मीटर की दूरी के अंदर कोई मानव बसाहट (Habitation) स्थित है?	नहीं
3.	यदि 500 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है?	नहीं
4.	यदि 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है?	नहीं
5.	यदि 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6.	यदि 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है?	नहीं
7.	यदि 10 कि०मी० की परिधि में कोई अंतराज्यीय (Interstate) सीमा है?	नहीं
8.	यदि 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक (Monuments/Archaeological) महत्व के स्थल स्थित है?	नहीं

21.12.14

हस्ताक्षरित एवं संपादित और मजबूत
पता के कार्यालय में 21.12.14
माता के 139 नंबर 35 नंबर 10-54
21.12.14 21 नंबर 10-54 नंबर 10-54
को नही है और नंबर 10-54
21.12.14 को है

वसि

R.S.I



12-04-14
अचल अधिकारी
जयनगर (कोडरमा)

To whom it may concern

This is to certify that all sitting criteria/provisions of JSPCB & SEIAA, JHARKHAND has been complied.

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6	Any other river	100
7	Habitation	200
8	Forest/ Forest land	400

As per 58th-MOM-of-SEIAA Jharkhand

III. Revised format for PP to get the following information/certification from Circle Officer:-

क्रम सं०	निर्धारित बिन्दु	हाँ/नहीं
1.	क्या आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर-II में जंगल झाड़ी के रूप में दर्ज है?	नहीं
2.	क्या 500 मीटर की दूरी के अंदर कोई मानव बसाहट (Habitation) स्थित है?	नहीं
3.	क्या 500 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है?	नहीं
4.	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है?	नहीं
5.	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6.	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है?	नहीं
7.	क्या 10 कि०मी० की परिधि में कोई अंतर्राज्यीय (Interstate) सीमा है?	नहीं
8.	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक (Monuments/Archaeological) महत्व के स्थल स्थित है?	नहीं

अं० १२५

गौना - नक्का-पोली नक्का ०० १२५
नक्का-पोली नक्का ०० १२५
नक्का-पोली नक्का ०० १२५
नक्का-पोली नक्का ०० १२५

३५५५५-५५५५५ नक्का-पोली नक्का ०० १२५
नक्का-पोली नक्का ०० १२५
नक्का-पोली नक्का ०० १२५

वसि

R.S.I

(Signature)

(Signature)

१२-५-१५

अचल अधिकारी
जयनगर (कोडरमा)



To whom it may concern

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क्रम सं०	निर्धारित बिन्दु	हाँ/नहीं
1.	क्या आवेदित भूमि की कोटि सर्वे खतियान तथा रजिस्टर-II में जंगल झाड़ी के रूप में दर्ज है?	नहीं
2.	क्या 500 मीटर की दूरी के अंदर कोई मानव बसावट (Habitation) स्थित है?	नहीं
3.	क्या 500 मीटर की दूरी के अंदर कोई जलय निकाश (Dam/Reservoir) स्थित है?	नहीं
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7.	क्या 10 कि०मी० की परिधि में कोई अंतराज्यीय (Interstate) सीमा है?	नहीं
8.	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक (Monuments/Archaeological) महत्व के स्थल स्थित है?	नहीं

महोदय
हमका मापदंड में संघारित गैर
मजबूत पंजी में मापदंड पर मौजूद
कम 2-पट्टी मापदंड 125 जो 2-पट्टी
तो 182 रजमा 9.63 है।
मजबूत रजमा रजमा रजमा रजमा
एक किलोमीटर नदी दूरी है।

R.S.T

(Signature)

(Signature)

12-04-2013

अचल अधिकारी
गयनगर (कोडरमा)



To whom it may concern

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2.	क्या 500 मीटर की दूरी के अंदर कोई मानव बसाहट (Habitation) स्थित है?	नहीं
3.	क्या 500 मीटर की दूरी के अंदर कोई जलयोजन निकाय (Dam/Reservoir) स्थित है?	नहीं
4.	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है?	नहीं
5.	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6.	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है?	नहीं
7.	क्या 10 कि०मी० की परिधि में कोई अंतरराज्यीय (Interstate) सीमा है?	नहीं
8.	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक (Monuments/Archaeological) महत्व के स्थल स्थित है?	नहीं

मं 21214
एलका कार्मिलिय में संचालित गौलापलिया
प्लांट की आसपास के माँझा-माँझी आदि
भागा 01/41 कुलाहाल 52 2 ल 12 कि 178
2 म 11 कि 15.00 है। भूमि गौलापलिया
रेला 2 वीर की भूमि हो एलका कार्मिलिय
है।

R.S.F

(Arvin)

12/04/2013

12-04-2013

अचल अधिकारी
गयनगर (कोडरमा)



(Signature)

To whom it may concern

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7	Habitation	200
8	Forest/ Forest land	400

As per 58th-MOM-of-SEIAA Jharkhand

III. Revised format for PP to get the following information/certification from Circle Officer:-

क्रम सं०	निर्धारित बिन्दु	हाँ/नहीं
1.	क्या आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर-II में जंगल झाड़ी के रूप में दर्ज है?	नहीं
2.	क्या 500 मीटर की दूरी के अंदर कोई मानव बसाहट (Habitation) स्थित है?	नहीं
3.	क्या 500 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है?	नहीं
4.	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है?	नहीं
5.	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6.	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है?	नहीं
7.	क्या 10 कि०मी० की परिधि में कोई अंतराज्यीय (Interstate) सीमा है?	नहीं
8.	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातत्व (Monuments/Archaeological) महल के स्थल स्थित है?	नहीं

01/12/17

हल्का ग्रीन फील्ड में शंकाहित और लाल
पट्टी के अन्तर्गत पट्टी कोटा-भांगीआ हिल्स
प्रा.नं. 0014। 24.12.05 24.12.05। 146।
2.00। 3.48। 0.00। 0.00। 0.00। 0.00।
2.00। 3.48। 0.00। 0.00। 0.00। 0.00।

01/12/17

R. S. L.

01/12/17

12-04-2017

अचल अधिकारी
जयनगर (कोडरमा)



To whom it may concern

This is to certify that all sitting criteria/provisions of JSPCB & SEIAA, JHARKHAND has been complied.

As per JSPCB notification no. B-21, Ranchi dated 16/08/13.

Sl. No	Minimum distance from	Distance (in meter)
1	NH	100
2	SH	100
3	Distance metal road	50
4	Railway line	100
5	River	100
6	Any other river	100
7	Habitation	200
8	Forest/ Forest land	400

As per 58th-MOM-of-SEIAA Jharkhand

III. Revised format for PP to get the following information/certification from Circle Officer:-

क्रम सं०	निर्धारित बिन्दु	हाँ/नहीं
1.	क्या अपेक्षित भूमि की-कोटि सर्व खतियान यथा रजिस्टर-II में जंगल झाड़ी के रूप में दर्ज है?	नहीं
2.	क्या 500 मीटर की दूरी के अंदर कोई मानव बसावट (Habitation) स्थित है?	नहीं
3.	क्या 500 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है?	नहीं
4.	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है?	नहीं
5.	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6.	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है?	नहीं
7.	क्या 10 कि०मी० की परिधि में कोई अंतरराज्यीय (Interstate) सीमा है?	नहीं
8.	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक (Monuments/Archaeological) महत्व के स्थल स्थित है?	नहीं

गोदावरी

होना कार्यलय में संघारित गैलरी में
गोदावरी पुर्ण रूप से आयातित नहीं है
गोदावरी डेल्टा भाग में 1412 मीटर
नं० 52 एमए के 753 मीटर 5.50 फीट
मौनी गैलरी में गोदावरी 2 मीटर की
मौनी है। एमए मिलान बाकी है।

नहीं

R.S.L



12-04-13
अचल अधिकारी
जयनगर (कोडरमा)

Akt-01

To whom it may concern

This is to certify that all sitting criteria/provisions of JSPCB & SEIAA, JHARKHAND has been complied.

As per JSPCB notification no. B-21, Ranchi dated 16/08/13.

Sl. No	Minimum distance from	Distance (in meter)
1	NH	100
2	SH	100
3	Distance metal road	50
4	Railway line	100
5	River	100
6	Any other river	100
7	Habitation	200
8	Forest/ Forest land	400

As per 58th-MOM-of-SEIAA Jharkhand

III. Revised format for PP to get the following information/certification from Circle Officer:-

क्रम सं०	निर्धारित बिन्दु	हाँ/नहीं
1.	क्या आवेदित भूमि की कोई सर्वे खतियान यथा रजिस्टर-II में जंगल झाड़ी के रूप में दर्ज है?	नहीं
2.	क्या 500 मीटर की दूरी के अंदर कोई माणव बसाहट (Habitation) स्थित है?	नहीं
3.	क्या 500 मीटर की दूरी के अंदर कोई जलोय निकाय (Dam/Reservoir) स्थित है?	नहीं
4.	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है?	नहीं
5.	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6.	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है?	नहीं
7.	क्या 10 कि०मी० की परिधि में कोई अंतराज्यीय (Interstate) सीमा है?	नहीं
8.	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक (Monuments/Archaeological) महत्व के स्थल स्थित है?	नहीं

महशय
हल्का कोपाल में
स्थित और प्रमत्त पंजी
के आधारे पर स्वतंत्र सौजन्य
गोपाल ही है आता न, न
रवाना न. 63 प्लॉट न. 1361
रकबा 6.74 स. मूनि
होद प्रमत्त रवाना रवाना की
मूनि है एवं किल नही नही

(Signature)

PS 159

12-04-2023

वल अधिकारी
जयनगर (कोडरमा)



AK10-02

To whom it may concern

This is to certify that all sitting criteria/provisions of JSPCB & SEIAA, JHARKHAND has been complied.

As per JSPCB notification no. B-21, Ranchi dated 16/08/13.

Sl. No	Minimum distance from	Distance (in meter)
1	NH	100
2	SH	100
3	Distance metal road	50
4	Railway line	100
5	River	100
6	Any other river	100
7	Habitation	200
8	Forest/ Forest land	400

As per 58th-MOM-of-SEIAA Jharkhand

III. Revised format for PP to get the following information/certification from Circle Officer:-

क्रम सं०	निर्धारित बिन्दु	हाँ/नहीं
1.	क्या आवेदित भूमि को कोई सर्वे खातियान यथा रजिस्टर-II में जंगल झाड़ी के रूप में दर्ज है?	नहीं
2.	क्या 500 मीटर की दूरी के अंदर कोई मानव बसावट (Habitation) स्थित है?	नहीं
3.	क्या 500 मीटर की दूरी के अंदर कोई जलय निकाय (Dam/Reservoir) स्थित है?	नहीं
4.	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है?	नहीं
5.	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6.	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है?	नहीं
7.	क्या 10 कि०मी० की परीधि में कोई अंतराज्यीय (Interstate) सीमा है?	नहीं
8.	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक (Monuments/Archaeological) महत्व के स्थल स्थित है?	नहीं

महोदय
शुद्ध कापी लाने में
सांसारिक जीए-मजदूरी
पंजी के आकार पर सीमा-
गोपालगढ़ धाना न. न. 9
रकता न. 63 (लाइन 136)
एक 6.74 रु. कुंफि
जीए-मजदूरी रकता न. 63
से मुक्ति है एवं बिना
बड़ी नदी है।

As per
RBI & Co

(Signature)

7/2004-2003

रवल अधिकारी
जयनगर (कोडरमा)



R

(Signature)

Akto-02

To whom it may concern

This is to certify that all sitting criteria/provisions of JSPCB & SEIAA, JHARKHAND has been complied.

As per JSPCB notification no. B-21, Ranchi dated 16/08/13.

Sl. No	Minimum distance from	Distance (in meter)
1	NH	100
2	SH	100
3	Distance metal road	50
4	Railway line	100
5	River	100
6	Any other river	100
7	Habitation	200
8	Forest/ Forest land	400

As per 58th-MOM-of-SEIAA Jharkhand

III. Revised format for PP to get the following information/certification from Circle Officer:-

क्रम सं०	निर्धारित बिन्दु	हाँ/नहीं
1.	यदि आवेदित भूमि की कोई सर्वे खातिमान यथा रजिस्टर-II में जंगल झाड़ी के रूप में दर्ज है?	नहीं
2.	यदि 500 मीटर की दूरी के अंदर कोई मानव बसावट (Habitation) स्थित है?	नहीं
3.	यदि 500 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है?	नहीं
4.	यदि 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है?	नहीं
5.	यदि 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6.	यदि 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है?	नहीं
7.	यदि 10 कि०मी० की परिधि में कोई अंतराज्यीय (Interstate) सीमा है?	नहीं
8.	यदि 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक (Monuments/Archaeological) महत्व के स्थल स्थित है?	नहीं

महाशय
श्रीमान् कुशीनगर मे
संस्थापित गैर-मजदूरी पंजी
के आधार पर गौणा स्थिति
धारा 141, 142, 91
स्थापना 49, 73
रजि. 0.29 रु. भूमि रजि.
सर्वे डिल - नदी की

(Signature)

PSIAA

12-04-23

मंचल अधिकारी
प्यनगर (कोडरमा)



To whom it may concern

As per JSPCB notification no. B-21, Ranchi dated 16/08/13.

As per 58th-MOM-of-SEIAA Jharkhand

क्रम सं०	निर्धारित बिन्दु	हाँ/नहीं
1.	क्या आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर-II में जंगल झाड़ी के रूप में दर्ज है?	नहीं
2.	क्या 500 मीटर की दूरी के अंदर कोई मानव बसाहट (Habitation) स्थित है?	नहीं
3.	क्या 500 मीटर की दूरी के अंदर कोई जलय निकाय (Dam/Reservoir) स्थित है?	नहीं
4.	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है?	नहीं
5.	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6.	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है?	नहीं
7.	क्या 10 कि०मी० की परिधि में कोई अंतरराज्यीय (Interstate) सीमा है?	नहीं
8.	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक (Monuments/Archaeological) महत्व के स्थल स्थित है?	नहीं

महुआथप, हिल्लुन कापानिय मे
स्थानवारि गोर-मण्डला पंजी
व. एकाद प. मीजा-
इरगोपादु स्थाना न. 129
119 खंता न. 44 एलाद
न. 1452 खंता 1.768
1429
महि गोर-मण्डला खंता
खंता न. 1429
महि गोर-मण्डला खंता
महि गोर-मण्डला खंता

12-04-2023

प्रचल अधिकारी
नयनगर (कोडरमा)



Akto-03

To whom it may concern

This is to certify that all sitting criteria/provisions of JSPCB & SELAA, JHARKHAND has been complied.

As per JSPCB notification no. B-21, Ranchi dated 16/08/13.

Sl. No	Minimum distance from	Distance (in meter)
1	NH	100
2	SH	100
3	Distance metal road	50
4	Railway line	100
5	River	100
6	Any other river	100
7	Habitation	200
8	Forest/ Forest land	400

As per 58th-MOM-of-SELAA Jharkhand

III. Revised format for PP to get the following information/certification from Circle Officer:-

क्रम सं०	निर्धारित बिन्दु	हाँ/नहीं
1.	क्या अपेक्षित भूमि की कोटि सर्वे खतियान यथा रजिस्टर-II में जंगल झाड़ी के रूप में दर्ज है?	नहीं
2.	क्या 500 मीटर की दूरी के अंदर कोई मानव बसाहट (Habitation) स्थित है?	नहीं
3.	क्या 500 मीटर की दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है?	नहीं
4.	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है?	नहीं
5.	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6.	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है?	नहीं
7.	क्या 10 कि०मी० की परिधि में कोई अंतराज्यीय (Interstate) सीमा है?	नहीं
8.	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक (Monuments/Archaeological) महल के स्थल स्थित है?	नहीं

महाप्राय/होला, कुपारप
मेक्सुवारी, गोर-मजबूत
पकी के आध्याय पर होजा
इरगावाड, बीना न. 197
बसना न. 44 एलाय. 1110
रुका 10.27 ए. रुकि
गोर-मजबूत, बीना न. 2546
रवा, बीना न. 1475
नदी दण्डा

Arms
PS/CC

12-04-2023
जयनगर (कोडरमा)



कार्यालय अंचल अधिकारी, मरकच्चो (कोडरमा)

पत्रांक .219....1

दिनांक-27.../04/2023

प्रेषक,

अंचल अधिकारी,
मरकच्चो।

सेवा में,

जिला खनन पदाधिकारी,
कोडरमा।

विषय:- कोडरमा जिला हेतु बालू खनिज के DSR में प्रस्तावित Category-II के बालूघाट के बावत प्रतिवेदन उपलब्ध कराने हेतु जाँच प्रतिवेदन का प्रेषण।

प्रसंग:- भवदीय पत्रांक-813/एम०, कोडरमा, दिनांक-26.04.2023

महाशय,

उपर्युक्त विषयक एवं प्रासंगिक पत्र के आलोक में कहना है कि अंचल मरकच्चो अन्तर्गत राजस्व ग्राम निमाडीह, थाना नं०-190, छुटिया थाना नं०-191 नहीं आता है, एवं मौजा-दशारोखुर्द, थाना नं०-173 के सीट नं०-2 के M/S Rian Enviro Private Limited के द्वारा उपलब्ध करायी गई प्लॉट सं०-2523, 4402 जो माईनर सर्वे से पहले (1911-12 ई०) का है, जबकि उक्त राजस्व ग्राम का माईनर सर्वे हो चुका है जिसका नया प्लॉट सं०-1890 एवं 2263 है

मौजा-दशारोखुर्द से संबंधित जाँच प्रतिवेदन इस कार्यालय का पत्रांक-213, दिनांक-24.04.2023 द्वारा ^{भवदीय} जिला खनन पदाधिकारी, कोडरमा को उपलब्ध करा दी गई है।

अतः जाँच प्रतिवेदन सादर सूचनार्थ समर्पित।

विश्वासभाजन

27/4/23
अंचल अधिकारी,
मरकच्चो।



कार्यालय अंचल अधिकारी, मरकच्चो (कोडरमा)

पत्रांक 213

दिनांक 24/04/2023

प्रेषक:-

अंचल अधिकारी,
मरकच्चो।

सेवा में,

जिला खनन पदाधिकारी,
कोडरमा।

विषय:-

कोडरमा जिला हेतु बालु खनिज के DSR(Draft) में प्रस्तावित Catrgory-II के बालुघाट के बावत प्रतिवेदन उपलब्ध कराने के संबंध में।

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के संन्दर्भ में सादर सूचित करते हुए कहना है कि मरकच्चो अंचल अन्तर्गत हेतु बालु खनिज के DSR(Draft) में प्रस्तावित Catrgory-II के बालुघाट के बावत से संबंधित परिशिष्ट-1 में तैयार कर इस पत्र के साथ संलग्न कर भेजी जा रही है।

अनुलग्नक:-यथोक्त।

विश्वासभाषा

अंचल अधिकारी,
मरकच्चो।



कार्यालय अंचल अधिकारी, मरकच्चो (कोडरमा)

परिशिष्ट-1

क्र०सं०	निर्धारित बिन्दु	प्रतिवेदन
1	क्या आवेदित भूमि की कोटी सर्वे खतियान यथा रजिस्टर-2 में जंगल झाड़ी के रूप में दर्ज है?	नहीं
2	क्या 500 मीटर की दूरी के अन्दर कोई मानव वसाहत (Habitation) स्थित है?	नहीं
3	क्या 500 मीटर की दूरी के अन्दर कोई जलीय निकाय (Dam/Reservior) स्थित है?	नहीं
4	क्या 500 मीटर की दूरी के अन्दर कोई नदी (River) स्थित है?	हाँ
5	क्या 500 मीटर की दूरी के अन्दर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6	क्या 500 मीटर की दूरी के अन्दर कोई चिकित्सालय (Hospital Institute) स्थित है?	नहीं
7	क्या 500 मीटर की दूरी के अन्दर कोई अंतराज्यीय सीमा (Interstate) स्थित है?	नहीं
8	क्या 500 मीटर की दूरी के अन्दर कोई राष्ट्रीय धरोहर/पुरातात्विक महत्व (Monuments/ Archaeological) के स्थल स्थित है?	नहीं

हल्का कार्यालय में उपलब्ध गैरमजरुआ खास पंजी के आधार पर मौजा-दशारोखुर्द थाना नं०-173 के अन्तर्गत खाता नं०-583 प्लॉट नं०-1890 रकबा-23.68 ए० एवं प्लॉट नं०-2263 रकबा-5.82 ए० किस्म- नदी दर्ज है।



(Signature)
24.4.23
R.S.

(Signature)
24/4/23
अंचल अधिकारी,
मरकच्चो

(Signature)

कार्यालय अंचल अधिकारी, मरकच्चो (कोडरमा)

परिशिष्ट-1

क्र०सं०	निर्धारित बिन्दु	प्रतिवेदन
1	क्या आवेदित भूमि की कोटी सर्वे खतियान यथा रजिस्टर-2 में जंगल झाड़ी के रूप में दर्ज है?	नहीं
2	क्या 500 मीटर की दूरी के अन्दर कोई मानव वसाहत (Habitation) स्थित है?	हाँ
3	क्या 500 मीटर की दूरी के अन्दर कोई जलीय निकाय (Dam/Reservior) स्थित है?	नहीं
4	क्या 500 मीटर की दूरी के अन्दर कोई नदी (River) स्थित है?	हाँ
5	क्या 500 मीटर की दूरी के अन्दर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6	क्या 500 मीटर की दूरी के अन्दर कोई चिकित्सालय (Hospital Institute) स्थित है?	नहीं
7	क्या 500 मीटर की दूरी के अन्दर कोई अंतराज्यीय सीमा (Interstate) स्थित है?	नहीं
8	क्या 500 मीटर की दूरी के अन्दर कोई राष्ट्रीय धरोहर/पुरातात्विक महत्व (Monuments/ Archaeological) के स्थल स्थित है?	नहीं

हल्का कार्यालय में उपलब्ध गैरमजरुआ खास पंजी के आधार पर मौजा-बांसडीह थाना नं०-189 के अन्तर्गत निम्नवत् है:-

क्र०सं०	खाता नं०	प्लॉट नं०	रकबा	किस्म
1	4	911	26.20	केशो नदी
2	4	1129	4.29	केशो नदी
3	4	1	7.45	केशो नदी
4	4	1132	0.36	पदती कदीम
5	4	2	7.60	केशो नदी

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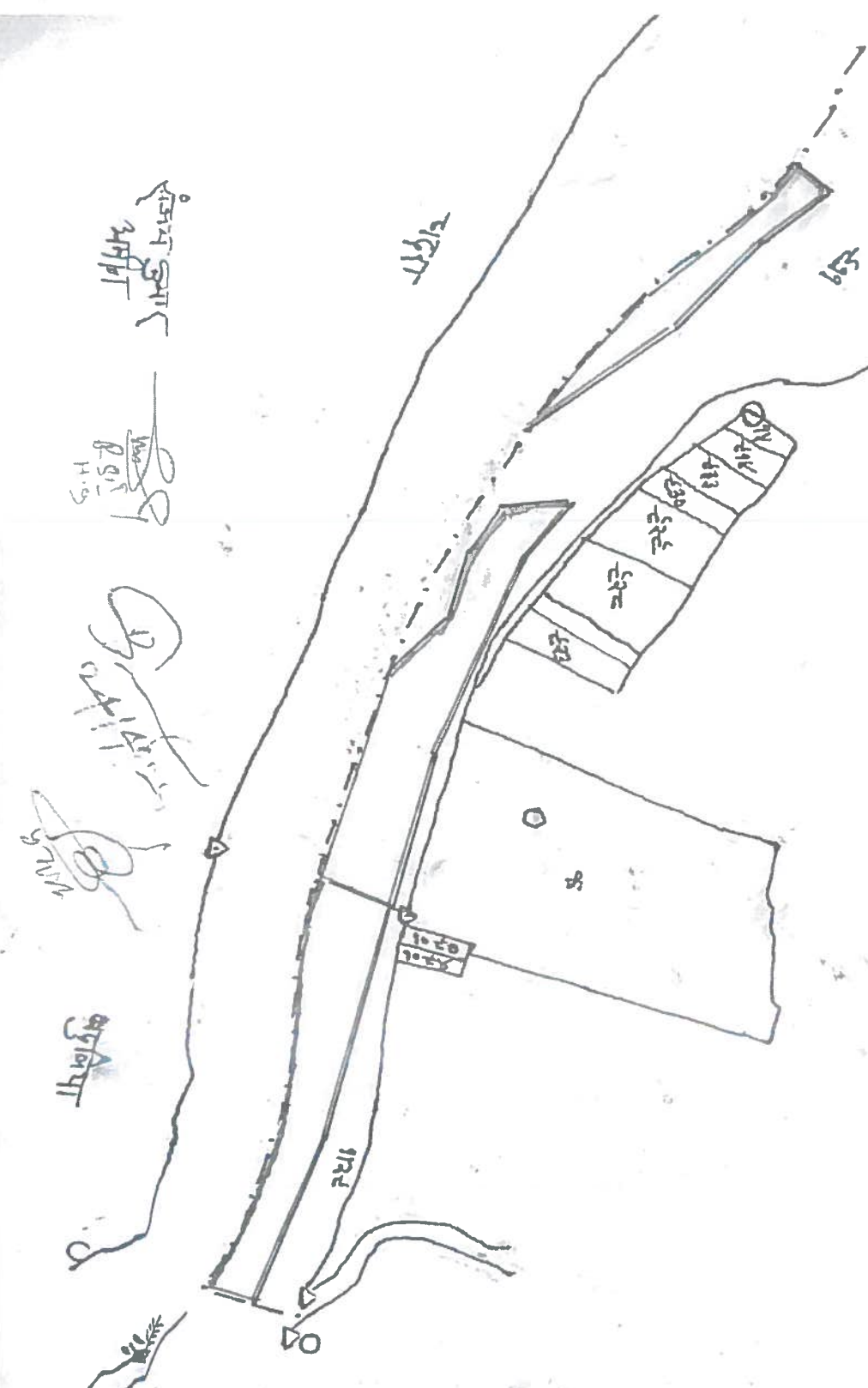


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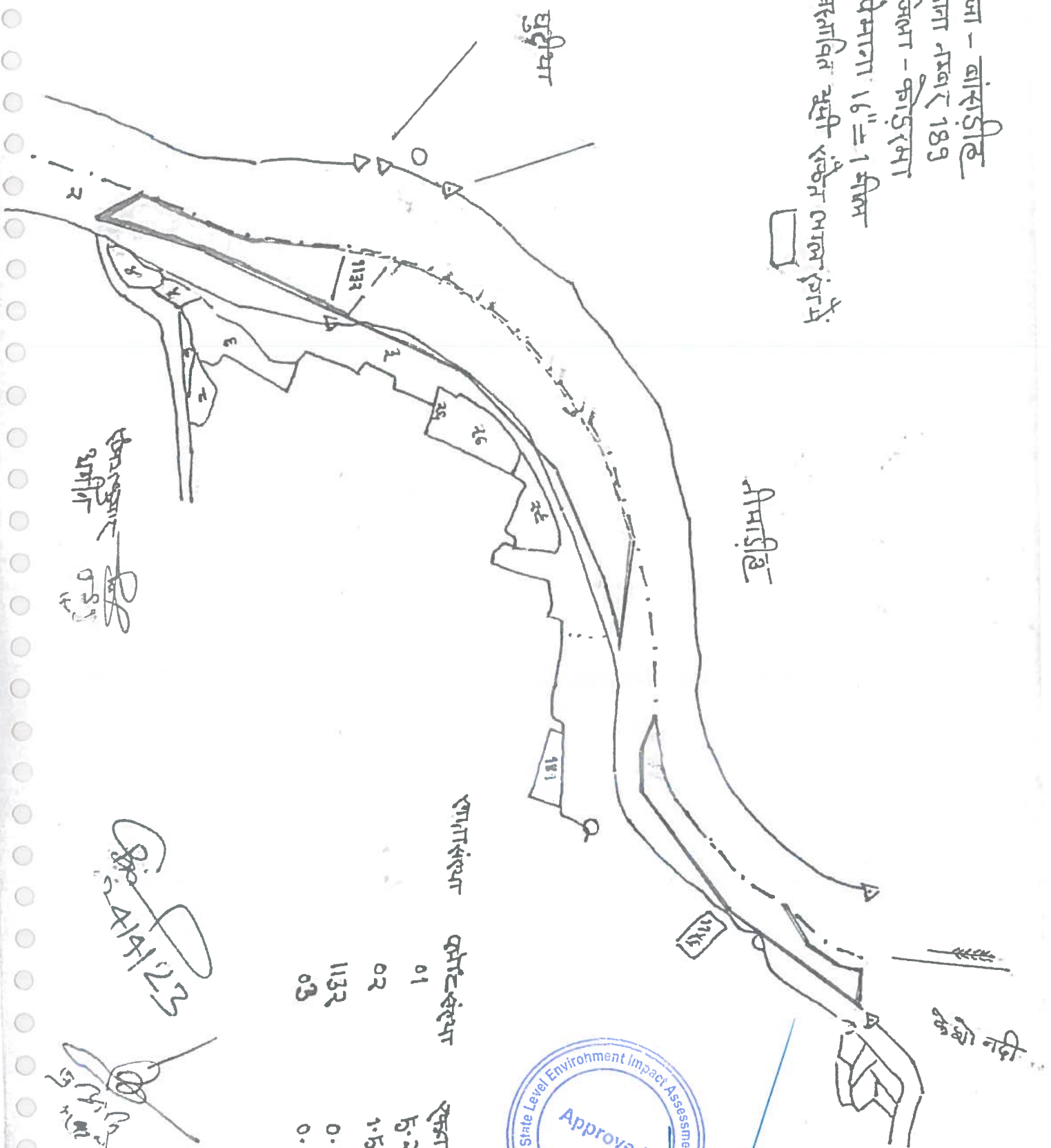
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24/4/23
अंचल अधिकारी,
मरकच्चो

रसायन ०५
 लोड क्षमता १११
 १५२९
 २.१० एक्स
 ३.६१ एक्स
 १५२९

शीला - बांझीह
 आना नखर १८३
 आना - मरकटगो
 शिला - कोडरेमा
 मैमाना १६" = १ मीम
 प्रादेशिक मन्त्री खेकन लाल रंग
 में



सैला - बांसडीह
 भागा नम्बर 189
 जिला - कोडरमा
 पैमाना 1:6" = 1 मील
 प्रकाशित असी एम्प्लान्डिंग



सैला संख्या	प्लॉट संख्या	रकबा
01	1132	5.26 ए
02	1133	1.50 ए
03	181	0.34 ए
		0.18 ए



सैला संख्या
 01

4/4/23

सैला संख्या
 01

कार्यालय अंचल अधिकारी, मरकच्चो (कोडरमा)

परिशिष्ट-1

क्र०सं०	निर्धारित बिन्दु	प्रतिवेदन
1	क्या आवेदित भूमि की कोटी सर्वे खतियान यथा रजिस्टर-2 में जंगल झाड़ी के रूप में दर्ज है?	नहीं
2	क्या 500 मीटर की दूरी के अन्दर कोई मानव वसाहत (Habitation) स्थित है?	नहीं
3	क्या 500 मीटर की दूरी के अन्दर कोई जलीय निकाय (Dam/Reservior) स्थित है?	नहीं
4	क्या 500 मीटर की दूरी के अन्दर कोई नदी (River) स्थित है?	हाँ
5	क्या 500 मीटर की दूरी के अन्दर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6	क्या 500 मीटर की दूरी के अन्दर कोई चिकित्सालय (Hospital Institute) स्थित है?	नहीं
7	क्या 500 मीटर की दूरी के अन्दर कोई अंतराज्यीय सीमा (Interstate) स्थित है?	नहीं
8	क्या 500 मीटर की दूरी के अन्दर कोई राष्ट्रीय धरोहर/पुरातात्विक महत्व (Monuments/ Archaeological) के स्थल स्थित है?	नहीं

हल्का कार्यालय में उपलब्ध गैरमजरूआ खास पंजी के आधार पर मौजा-नगरितो थाना नं०-188 के अन्तर्गत खाता नं०-46 प्लॉट नं०-391 रकबा-11.8031 ए० किस्म-केशो नदी दर्ज है।

RS-1
49

9.3.11.11

24/4/23
अंचल अधिकारी,
मरकच्चो



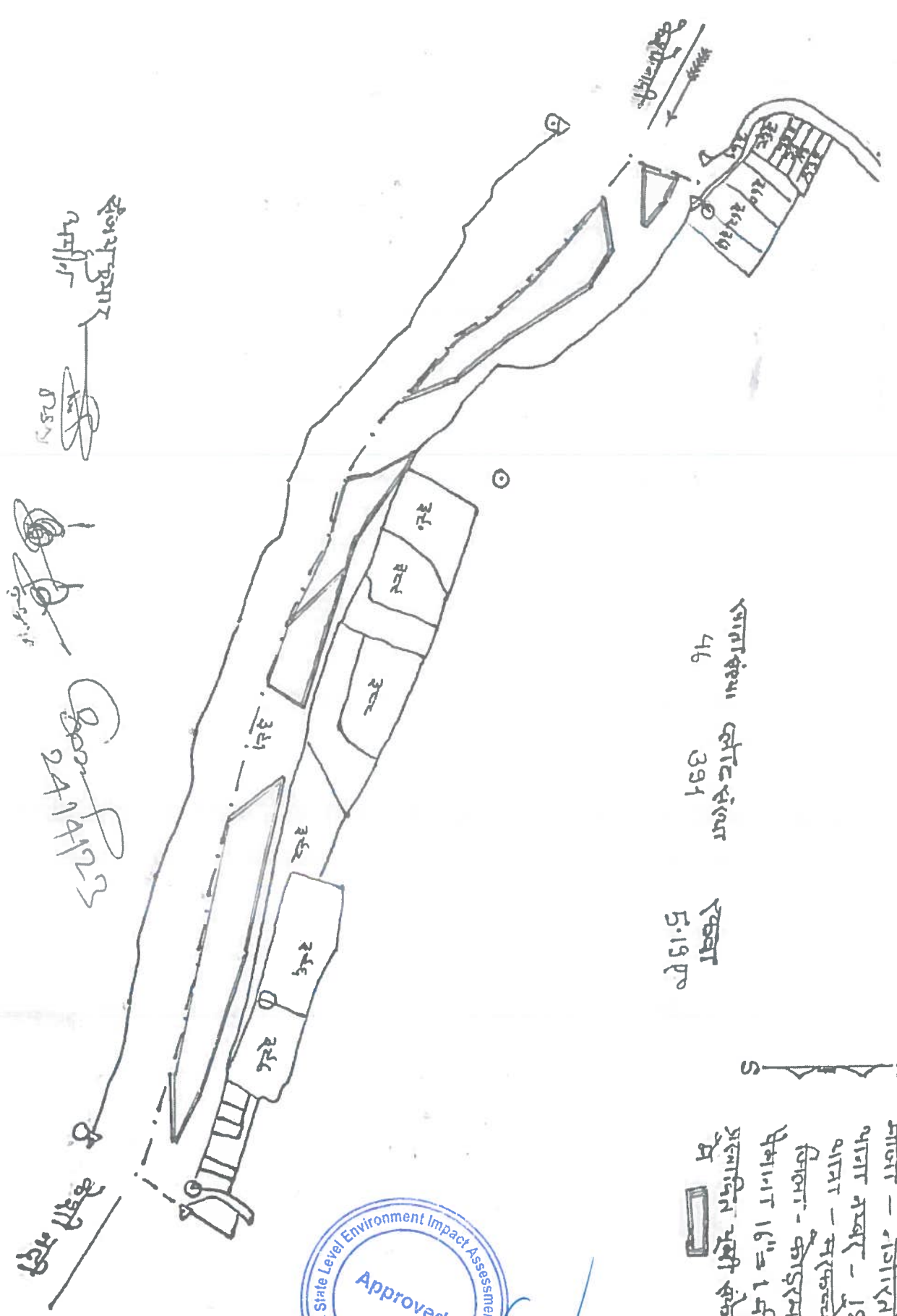
2

2

झीला - गजिरा
 भागा नम्बर - 188
 भागा - सरफखो
 जिला - कोडरमा
 मैदाना 16" 2 1 मीटर
 प्रस्तावित भूमी क्षेत्र लाल रंग
 में



खाता संख्या 46
 प्लॉट संख्या 391
 रकबा 5.19 ए०



क्षेत्र अधिकारी
 जिला

24/11/23

के.डी. नरसि

कार्यालय अंचल अधिकारी, मरकच्चो (कोडरमा)

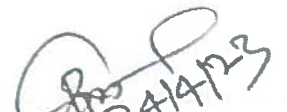
परिशिष्ट-1

क्र०सं०	निर्धारित बिन्दु	प्रतिवेदन
1	क्या आवेदित भूमि की कोटी सर्वे खतियान यथा रजिस्टर-2 में जंगल झाड़ी के रूप में दर्ज है?	नहीं
2	क्या 500 मीटर की दूरी के अन्दर कोई मानव वसाहत (Habitation) स्थित है?	नहीं
3	क्या 500 मीटर की दूरी के अन्दर कोई जलीय निकाय (Dam/Reservior) स्थित है?	नहीं
4	क्या 500 मीटर की दूरी के अन्दर कोई नदी (River) स्थित है?	हाँ
5	क्या 500 मीटर की दूरी के अन्दर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6	क्या 500 मीटर की दूरी के अन्दर कोई चिकित्सालय (Hospital Institute) स्थित है?	नहीं
7	क्या 500 मीटर की दूरी के अन्दर कोई अंतराज्यीय सीमा (Interstate) स्थित है?	नहीं
8	क्या 500 मीटर की दूरी के अन्दर कोई राष्ट्रीय धरोहर/ पुरातात्विक महत्व (Monuments/ Archaeological) के स्थल स्थित है?	नहीं

हल्का कार्यालय में उपलब्ध गैरमजरुआ खास पंजी के आधार पर मौजा-चोपनाडीह थाना नं०-177 के अन्तर्गत खाता नं०-1 प्लॉट नं०-289 रकबा-9.23 ए० किस्म- केशो नदी दर्ज है।


6.8.11
112


9-11-11


24/4/23
अंचल अधिकारी,
मरकच्चो









मौजा - चौपनाड़ीह

धाना नम्बर - 137

धाना - मरकचो

जिला - कोडरमा

पैमाना 16" = 1 मील

प्रस्तावित भूमी संकेत लाल रंग में



खेता सं०
1

फ्लोट सं०
289

किमा
3-26 1/2 ए०

बादुलीया

कबो नदि



सिधु कुमार
अधीन

24/4/23

कार्यालय अंचल अधिकारी, मरकच्चो (कोडरमा)

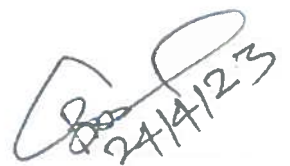
परिशिष्ट-1

क्र०सं०	निर्धारित बिन्दु	प्रतिवेदन
1	क्या आवेदित भूमि की कोटी सर्वे खतियान यथा रजिस्टर-2 में जंगल झाड़ी के रूप में दर्ज है?	नहीं
2	क्या 500 मीटर की दूरी के अन्दर कोई मानव वसाहत (Habitation) स्थित है?	नहीं
3	क्या 500 मीटर की दूरी के अन्दर कोई जलीय निकाय (Dam/Reservior) स्थित है?	नहीं
4	क्या 500 मीटर की दूरी के अन्दर कोई नदी (River) स्थित है?	हाँ
5	क्या 500 मीटर की दूरी के अन्दर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6	क्या 500 मीटर की दूरी के अन्दर कोई चिकित्सालय (Hospital Institute) स्थित है?	नहीं
7	क्या 500 मीटर की दूरी के अन्दर कोई अंतराज्यीय सीमा (Interstate) स्थित है?	नहीं
8	क्या 500 मीटर की दूरी के अन्दर कोई राष्ट्रीय धरोहर/पुरातात्विक महत्व (Monuments/ Archaeological) के स्थल स्थित है?	नहीं

हल्का कार्यालय में उपलब्ध गैरमजरुआ खास पंजी के आधार पर मौजा-बिराजपुर थाना नं०-186 के अन्तर्गत खाता नं०-1 प्लॉट नं०-1 रकबा-0.07½ ए० किस्म- नदी दर्ज है।


12.11.23


12.11.23


12/11/23

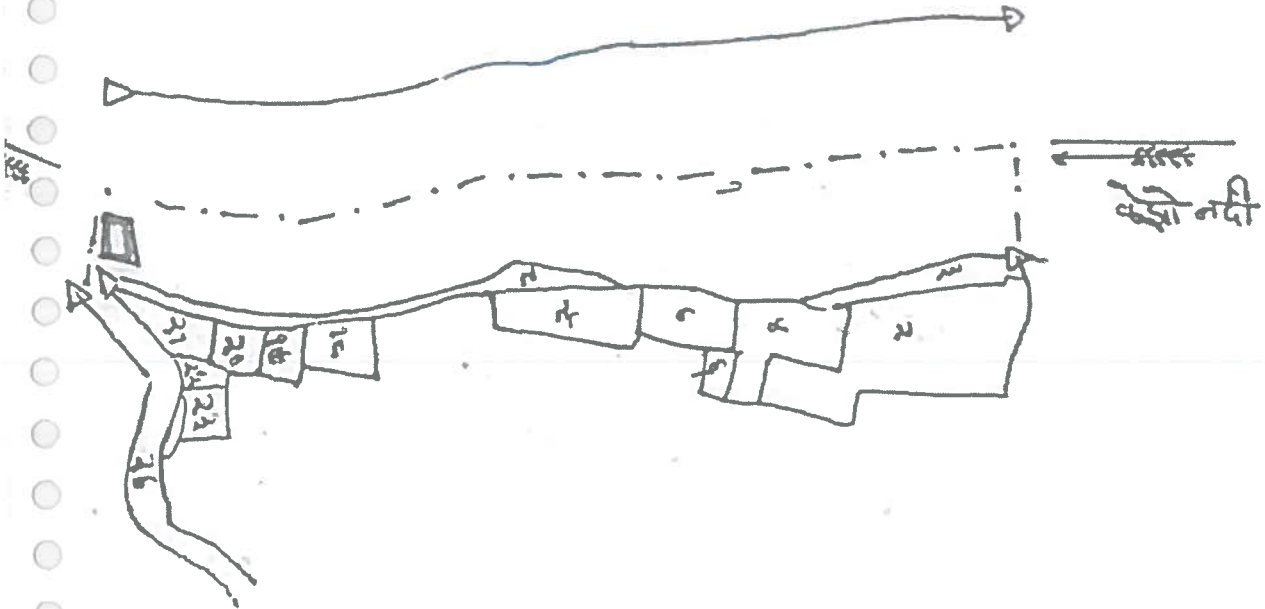
अंचल अधिकारी,
मरकच्चो







नीमाडीह



2

मैला - वीरागपुर
 प्लाट - नम्बर - 186
 प्लाट - मरकजियो
 डिफेंस - कोडरमा
 Scale - 1" = 1 मील
 प्रस्तावित भूमी सर्वेक्षा प्लान रंग से

प्लाट संख्या 1
 प्लॉट संख्या 01
 रकबा



24/4/23

R

कैमल कुमार
 पञ्जीन

24/4/23

कार्यालय अंचल अधिकारी, मरकच्चो (कोडरमा)

परिशिष्ट-1

क्र०सं०	निर्धारित बिन्दु	प्रतिवेदन
1	क्या आवेदित भूमि की कोटी सर्वे खतियान यथा रजिस्टर-2 में जंगल झाड़ी के रूप में दर्ज है?	नहीं
2	क्या 500 मीटर की दूरी के अन्दर कोई मानव वसाहत (Habitation) स्थित है?	नहीं
3	क्या 500 मीटर की दूरी के अन्दर कोई जलीय निकाय (Dam/Reservior) स्थित है?	नहीं
4	क्या 500 मीटर की दूरी के अन्दर कोई नदी (River) स्थित है?	हाँ
5	क्या 500 मीटर की दूरी के अन्दर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6	क्या 500 मीटर की दूरी के अन्दर कोई चिकित्सालय (Hospital Institute) स्थित है?	नहीं
7	क्या 500 मीटर की दूरी के अन्दर कोई अंतराज्यीय सीमा (Interstate) स्थित है?	नहीं
8	क्या 500 मीटर की दूरी के अन्दर कोई राष्ट्रीय धरोहर/पुरातात्विक महत्व (Monuments/ Archaeological) के स्थल स्थित है?	नहीं

हल्का कार्यालय में उपलब्ध गैरमजरूआ खास पंजी के आधार पर मौजा-बेलाडीह थाना नं०-176 के अन्तर्गत निम्नवत् है:-

क्र०सं०	खाता नं०	प्लॉट नं०	रकबा	किस्म
1	1	1	7.96	केशो नदी
2	1	360/904	3.44	केशो नदी

[Signature]
R.S.P.
H.B.

[Signature]
S.M.P.



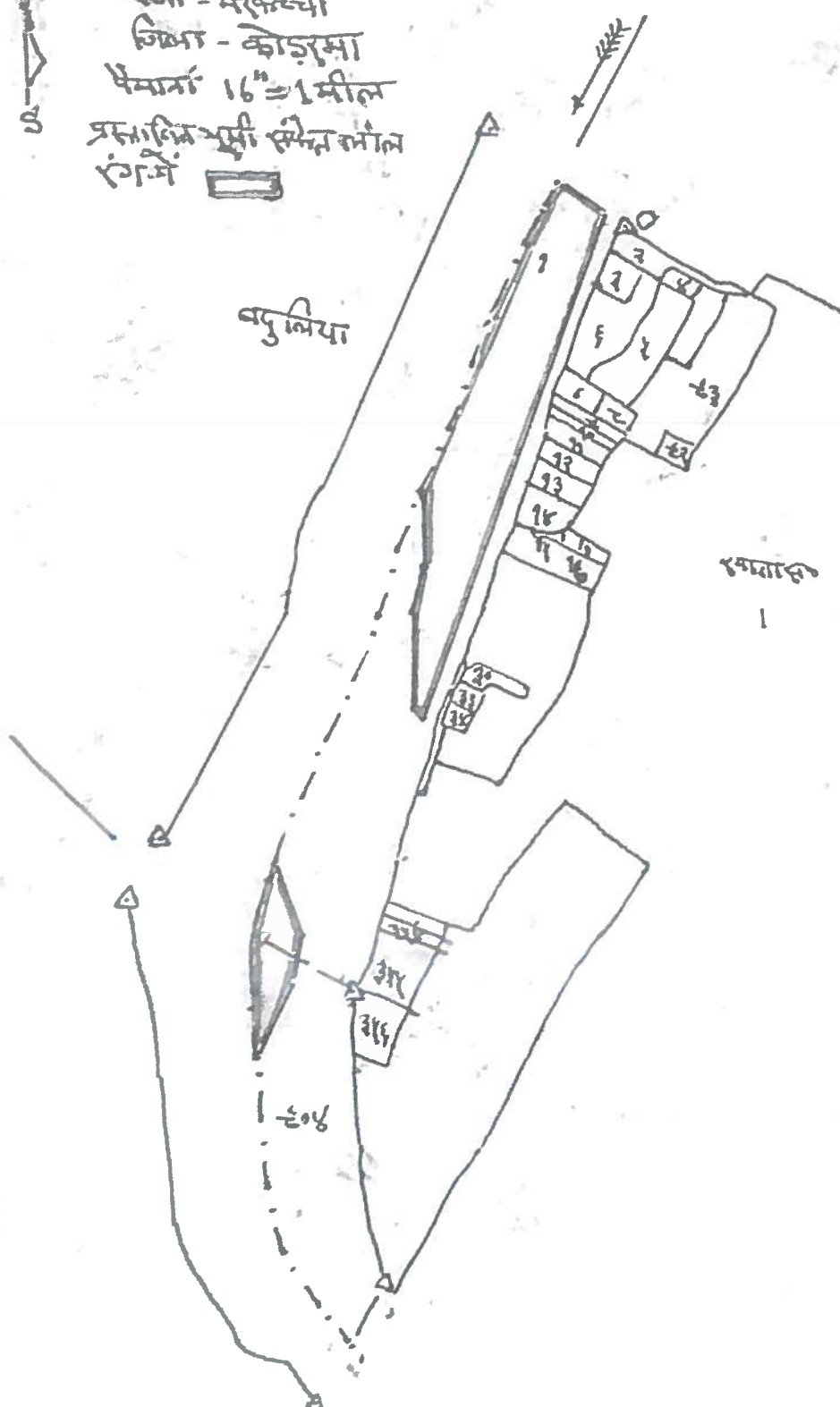
[Signature]
24/4/23
अंचल अधिकारी,
मरकच्चो

[Signature]

2

मैसा बैलाडीह
 प्लॉट 176
 थाना - मरहटो
 जिला - कोडरमा
 पैमात्रा 16" = 1 मील
 प्रस्तावित भूमी स्थान चिह्नित
 रंग में

मरहटो



प्लॉट नं.	कोट नं.	रकबा
1	1	3.75 ए०
	904	0.29 ए०



संजय कुमार
 अभियंता

12/5/23

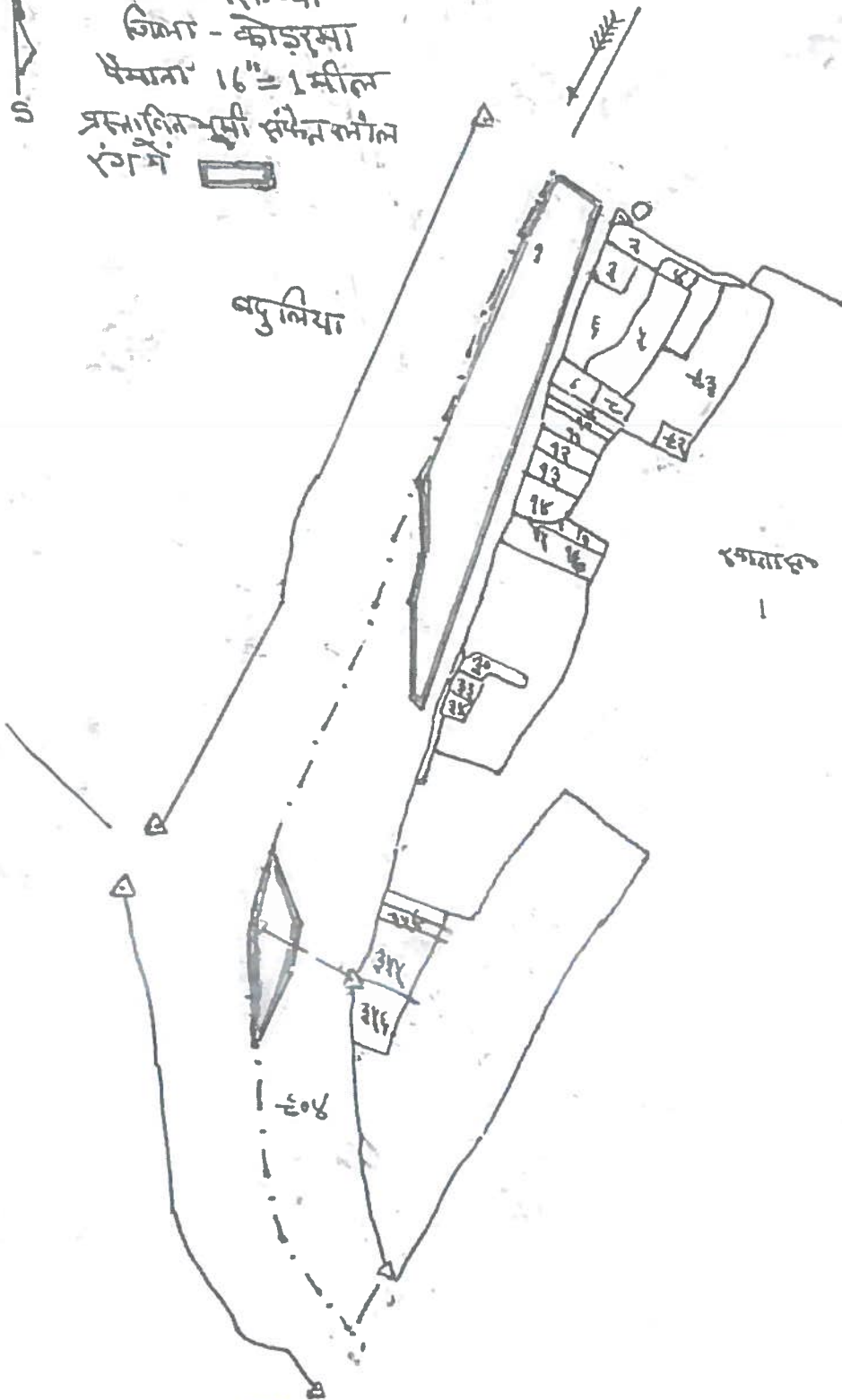
15/5/23

24/5/23



मौजा - बैलाडीह
अक्षांश 176
धरा - मरुच्यो
जिम्मा - कोडरमा
धरमाना 16" = 1 मील
प्रस्तावित भूमी संकेत शीतल
रंग में

बहुलिया



खण्डाङ्क	कोटका	एकका
1	1	3-75 ए०
	904	0-29 ए०



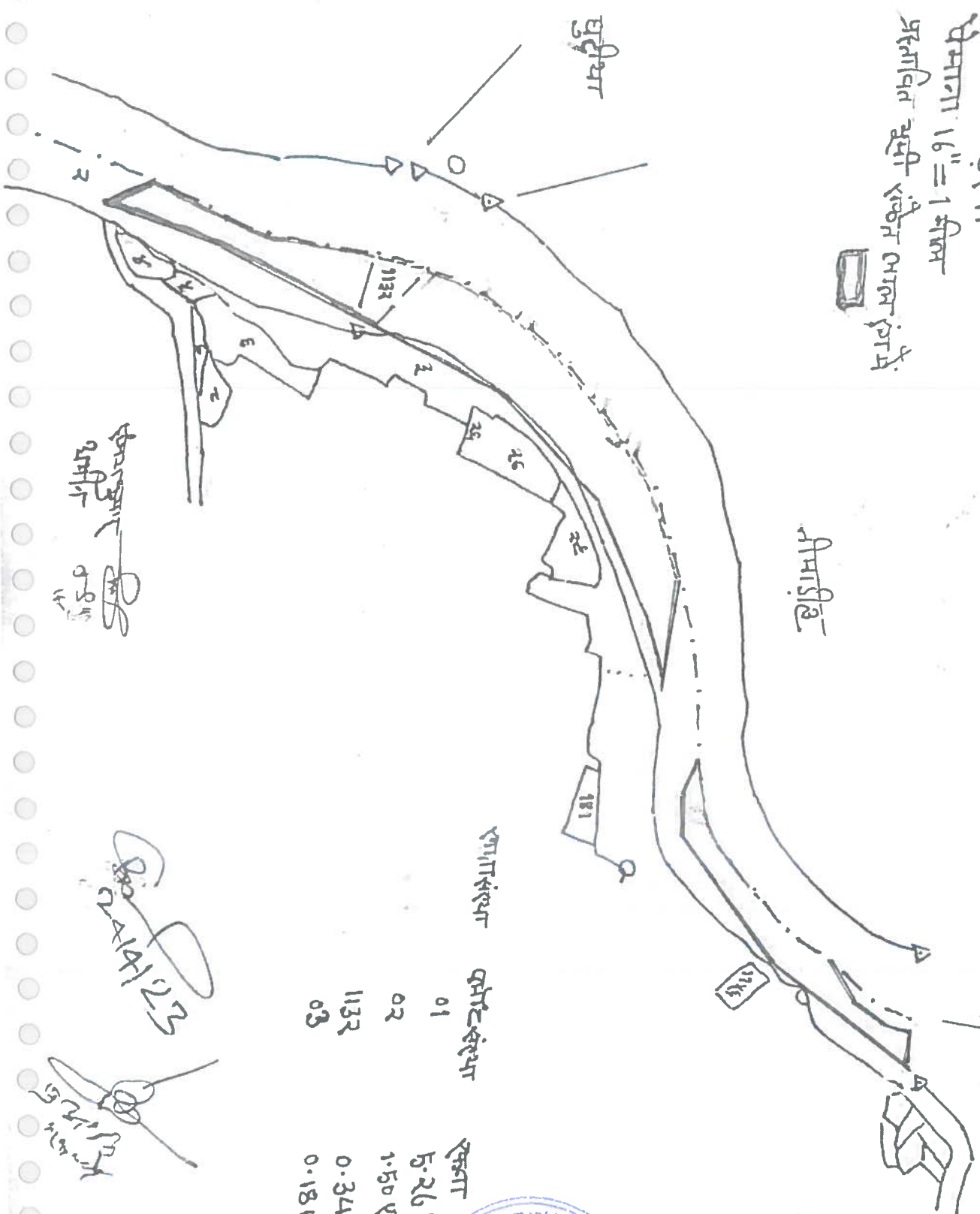
संजय कुमार
अधीन

125-5

24/11/23
5 मिन



मौजा - बांसडीह
भाग नम्बर 189
खिला - कोडरमा
पैमाना 1" = 1 मील
प्रस्तुत इसी खंड में आता है



प्लॉट संख्या	असत संख्या	रकबा
01	1132	5.26 ए
02	1133	1.50 ए
03		0.34 ए
		0.18 ए



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03/11/14

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04/11/23

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R



Department of Forest, Environment and Climate Change

Report of Distance from Notified Forest, National Park, Sanctuary & Eco-Sensitive Zone

Name Of Applicant: JSMDCLTD
Institution Type: Government
Email ID: ravi@rianenviro.in
Contact no.: 7903910693
Location of Proposed Land: JOGIATILA & TILOKRI
District: Koderma
Thana No.: 141 & 144
Khatia No.: NA
Battery Point Thana Name: JAINAGAR
Khesra Name: 1700, 753, 1468 & 1502
Range Forest Officer: Divisional Forest Officer

#	Checkpoint		
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? *	No	No
2	Whether Project location come under No Mining Zone? *	No	No
3	Does there any National park located within 10 km from project location? *	No	No
4	Does there any Wildlife sanctuary located within 10 km distance from project location? *	No	No
5	Does there any ESZ available within 10 km distance from project location? *	No	No
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	No	No

Division DFO Koderma
Letter No. 1637
Date of issue 21/04/2022
Signature
Name
Divisional Forest Officer
Koderma Forest Division

अभ्युक्ति :

- चेक प्वाइंट संख्या 02 : से संबंधित कोई अभिलेख इस कार्यालय में उपलब्ध नहीं है।
- आवेदित स्थल के सीमाना पर मौजा दोमोहानी नीमाडीह पड़ता है, जो हजारीबाग जिला अंतर्गत आता है। अतः संबंधित वन प्रमण्डल से भी दूरी प्रतिवेदन प्राप्त कर लिया जाय।
- चेक प्वाइंट संख्या 03 से 6 : याचित सूचना वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, हजारीबाग से प्राप्त करें।
- निर्गत प्रतिवेदन दूरी प्रतिवेदन मात्र है अनापत्ति प्रमाण पत्र नहीं।
- साथ ही आवेदित प्लॉट के जंगल किस्म (deemed forest) नहीं होने के संबंध में सुनिश्चित हो लें। उल्लेखनीय है कि deemed forest का अपयोजन केन्द्र सरकार की अनुमति के बिना नहीं किया जा सकता है।



Divisional Forest Officer
Koderma Forest Division



Department of Forest, Environment and Climate Change

Report of Distance from Notified Forest, National Park, Sanctuary & Eco-Sensitive Zone

Name of Applicant
Institution Type
Email ID

JSMDC LTD
Government
ravi@rianenviro.in

Contact no.:

7903910693

Location of Proposed Land

District
Thana No.:
Khata No.:

Koderma
346
NA

Battery Point
Thana Name:
Khesra Name:

BISHUNITIKAR
KODERMA
280, 321 & 394

Range Forest
Officer

Divisional Forest
Officer

#

Clickpoint

Whether Distance of Project location from Reserved Forest/Protected Forest is, 250 m? *
less than or equal to

Whether Project location come under No Mining Zone? *

Does there any National park located within 10 km from project location? *

Does there any Wildlife sanctuary located within 10 km distance from project location? *

Does there any ESZ available within 10 km distance from project location? *

Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *

Division DFO Koderma

Letter No. 1597

Date of issue 20/04/2023

Signature

Name

Divisional Forest Officer

Divisional Forest Officer

Koderma Forest Division

14/4

अभ्युक्ति :

- आवेदित स्थल मौजा विशुनीटिकर वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, हजारीबाग के क्षेत्राधिकार में आता है, अतः उक्त प्रमण्डल से दूरी प्रतिवेदन प्राप्त कर लिया जाय।
- चेक प्वाइंट संख्या 02 : से संबंधित कोई अभिलेख इस कार्यालय में उपलब्ध नहीं है।
- चेक प्वाइंट संख्या 03 से 8 : याचित सूचना वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, हजारीबाग से प्राप्त करें।
- साथ ही आवेदित प्लॉट के जंगल किस्म (deemed forest) नहीं होने के संबंध में सुनिश्चित हो लें। उल्लेखनीय है कि deemed forest का अपयोजन केन्द्र सरकार की अनुमति के बिना नहीं किया जा सकता है।



Divisional Forest Officer
Koderma Forest Division
14/4



Department of Forest, Environment and Climate Change

Report of Distance from Notified Forest, National Park, Sanctuary & Eco-Sensitive Zone

Name Of Applicant	JSMDCLTD	Contact no.:	7903910693
Institution Type	Government	Location of Proposed Land	
Email ID	ravi@rianenviro.in		
District	Koderma	Battery Point	BISHUNITIKAR
Thana No.:	346	Thana Name:	KODERMA
Khata No.:	NA	Khesra Name:	280, 321 & 394

#	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? *	✓	✓
2	Whether Project location come under No Mining Zone? *	✓	✓
3	Does there any National park located within 10 km from project location? *	✓	✓
4	Does there any Wildlife sanctuary located within 10 km distance from project location? *	✓	✓
5	Does there any ESZ available within 10 km distance from project location? *	✓	✓
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	✓	✓

Division DFO Koderma

Letter No. 1595

Date of issue 20/04/2023

Signature

Name

Divisional Forest Officer

Koderma Forest Division

19/4

अभ्युक्ति :

- आवेदित स्थल मौजा बिशुनीटिकर वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, हजारीबाग के क्षेत्राधिकार में आता है, अतः उक्त प्रमण्डल से दूरी प्रतिवेदन प्राप्त कर लिया जाय।
- चेक प्वाइंट संख्या 02 : से संबंधित कोई अभिलेख इस कार्यालय में उपलब्ध नहीं है।
- चेक प्वाइंट संख्या 03 से 6 : याचित सूचना वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, हजारीबाग से प्राप्त करें।
- साथ ही आवेदित प्लॉट के जंगल किस्म (deemed forest) नहीं होने के संबंध में सुनिश्चित हो लें। उल्लेखनीय है कि deemed forest का अपयोजन केन्द्र सरकार की अनुमति के बिना नहीं किया जा सकता है।



Divisional Forest Officer
Koderma Forest Division
19/4



Department of Forest, Environment and Climate Change

Report of Distance from Notified Forest, National Park, Sanctuary & Eco-Sensitive Zone

Name Of Applicant
Institution Type
Email ID

JSMDCLTD
Government
rvtl@jnnenviro.in

Contact no.:

7903910693

Location of Proposed Land

District
Thana No.:
Khata No.:

Koderma
346
NA

Battery Point
Thana Name:
Khesra Name:

DISHUNITIKAR
KODERMA
280, 321 & 394

#

Checkpoint

Range Forest
Officer

Divisional Forest
Officer

- Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? * ☒ *less than 250 m*
- Whether Project location come under No Mining Zone? * ☒
- Does there any National park located within 10 km from project location? * ☒
- Does there any Wildlife sanctuary located within 10 km distance from project location? * ☒
- Does there any ESZ available within 10 km distance from project location? * ☒
- Whether Proposed project comes under prohibited category of ESZ (Yes or No)? * ☒

Division DFO Koderma

Letter No. 1595

Date of issue 20/04/2023

Signature

Name

Divisional Forest Officer
Koderma Forest Division

अभ्युक्ति :

- आवेदित स्थल मौजा विशुनीटिकर वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, हजारीबाग के क्षेत्राधिकार में आता है, अतः उक्त प्रमण्डल से दूरी प्रतिवेदन प्राप्त कर लिया जाय।
- चेक प्वाइंट संख्या 02 : से संबंधित कोई अभिलेख इस कार्यालय में उपलब्ध नहीं है।
- चेक प्वाइंट संख्या 03 से 6 : याचित सूचना वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, हजारीबाग से प्राप्त करें।
- साथ ही आवेदित प्लॉट के जंगल किस्म (deemed forest) नहीं होने के संबंध में सुनिश्चित हो लें। उल्लेखनीय है कि deemed forest का अपयोजन केन्द्र सरकार की अनुमति के बिना नहीं किया जा सकता है।

Divisional Forest Officer
Koderma Forest Division





Department of Forest, Environment and Climate Change

Report of Distance from Notified Forest, National Park, Sanctuary & Eco-Sensitive Zone

Name Of Applicant	JSMDC LTD	Contact no.:	7903910693
Institution Type	Government	Location of Proposed Land	
Email ID	ravi@rianenviro.in		
District	Koderma	Battery Point	BISHUNITIKAR & KARHARIA
Thana No.:	346 & 345	Thana Name:	KODERMA
Khata No.:	NA	Khesra Name:	280, 321, 394, 229 & 363

#	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? *	✓	✓
2	Whether Project location come under No Mining Zone? *	✓	✓
3	Does there any National park located within 10 km from project location? *	✓	✓
4	Does there any Wildlife sanctuary located within 10 km distance from project location? *	✓	✓
5	Does there any ESZ available within 10 km distance from project location? *	✓	✓
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	✓	✓

Division DFO Koderma

Letter No. 1596

Date of issue 20/04/2023

Signature

Name

Divisional Forest Officer
Koderma Forest Division

अभ्युक्ति :

1. आवेदित स्थल मौजा विशुनीटिकर, करहरिया वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, हजारीबाग के क्षेत्राधिकार में आता है, अतः उक्त प्रमण्डल से दूरी प्रतिवेदन प्राप्त कर लिया जाय।

2. चेक प्वाइंट संख्या 02 : से संबंधित कोई अभिलेख इस कार्यालय में उपलब्ध नहीं है।

3. चेक प्वाइंट संख्या 03 से 6 : याचित सूचना वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, हजारीबाग से प्राप्त करें।

4. साथ ही आवेदित प्लॉट के जंगल किस्म (deemed forest) नहीं होने के संबंध में सुनिश्चित हो लें। उल्लेखनीय है कि deemed forest का अपयोजन केन्द्र सरकार की अनुमति के बिना नहीं किया जा सकता है।



Divisional Forest Officer
Koderma Forest Division

14/4



Department of Forest, Environment and Climate Change

Report of Distance from Notified Forest, National Park, Sanctuary & Eco-Sensitive Zone

Name Of Applicant: **ESMDC LTD**
Institution Type: **Government**
Email ID: **esmi@esmdcltd.com**
Contact no.: **7903910693**
Location of Proposed Land:

District: **Koderma**
Thana No.: **346 & 345**
Khasa No.: **NA**
Battery Point: **BISHUNITIKAR & KARHARIA**
Thana Name: **KODERMA**
Khasa Name: **290, 321, 394, 229 & 363**

#	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? <i>1653 Km or less than 250</i>	---	---
2	Whether Project location come under No Mining Zone? *	---	---
3	Does there any National park located within 10 km from project location? *	---	---
4	Does there any Wildlife sanctuary located within 10 km distance from project location? *	---	---
5	Does there any ESZ available within 10 km distance from project location? *	---	---
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	---	---

Division: **DFO Koderma**

Letter No. **1596**

Date of issue: **20/04/2023**

Signature: _____

Name: _____

Divisional Forest Officer
Koderma Forest Division

19/4

अन्युक्ति :

1. आवेदित स्थल मौजा बिशुनीटिकर, करहरिया वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, हजारीबाग के क्षेत्राधिकार में आता है, अतः उक्त प्रमण्डल से दूरी प्रतिवेदन प्राप्त कर लिया जाय।

2. चेक प्वाइंट संख्या 02 : से संबंधित कोई अभिलेख इस कार्यालय में उपलब्ध नहीं है।

3. चेक प्वाइंट संख्या 03 से 6 : याचित सूचना वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, हजारीबाग से प्राप्त करें।

4. साथ ही आवेदित प्लॉट के जंगल किस्म (deemed forest) नहीं होने के संबंध में सुनिश्चित हो लें। उल्लेखनीय है कि deemed forest का अपयोजन केन्द्र सरकार की अनुमति के बिना नहीं किया जा सकता है।



Divisional Forest Officer
Koderma Forest Division

19/4



Department of Forest, Environment and Climate Change

Report of Distance from Notified Forest, National Park, Sanctuary & Eco-Sensitive Zone

Name of Applicant
Institution Type
Email ID

JSMDCLTD
Government
ravi@riannenviro.in

Contact no.: 7903910693
Location of Proposed Land

District
Thana No.:
Khata No.:

Koderma
186, 190 & 189
NA

Battery Point
Thana Name:
Khesra Name:

BIRAJPUR, NIMADIH & BANSDIH
MARKACHO
1, 1066, 911, 1129, 1, 1132 & 2

#

Checkpoint

Range Forest
Officer

Divisional Forest
Officer

1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? *	NO	NO
2	Whether Project location come under No Mining Zone? *	NO	NO
3	Does there any National park located within 10 km from project location? *	No	No
4	Does there any Wildlife sanctuary located within 10 km distance from project location? *	No	No
5	Does there any ESZ available within 10 km distance from project location? *	No	No
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	No	No

Division DFO Koderma

Letter No. 1634

Date of issue 21/04/2023

Signature

Name

Divisional Forest Officer
Koderma Forest Division

अन्युक्ति :

- चेक प्वाइंट संख्या 02 : से संबंधित कोई अभिलेख इस कार्यालय में उपलब्ध नहीं है।
- चेक प्वाइंट संख्या 03 से 6 : याचित सूचना वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, हजारीबाग से प्राप्त करें।
- निर्गत प्रतिवेदन दूरी प्रतिवेदन मात्र है अनापत्ति प्रमाण पत्र नहीं।
- साथ ही आवेदित प्लॉट के जंगल किस्म (deemed forest) नहीं होने के संबंध में सुनिश्चित हो लें। उल्लेखनीय है कि deemed forest का अपयोजन केन्द्र सरकार की अनुमति के बिना नहीं किया जा सकता है।

Divisional Forest Officer
Koderma Forest Division



R



Department of Forest, Environment and Climate Change

Report of Distance from Notified Forest, National Park, Sanctuary & Eco-Sensitive Zone

Name Of Applicant: JSMDCLTD
Institution Type: Government
Email ID: ravi@rianenviro.in
Contact no.: 7903910693
Location of Proposed Land: BANSDIH & NIMADIH
District: Koderma
Thana No.: 189 & 190
Khata No.: NA
Battery Point Thana Name: MARKACHO
Khesra Name: 911, 1129, 1, 1132, 2 & 1066
Range Forest Officer: Divisional Forest Officer

#	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? *	No	No
2	Whether Project location come under No Mining Zone? *	No	No
3	Does there any National park located within 10 km from project location? *	No	No
4	Does there any Wildlife sanctuary located within 10 km distance from project location? *	No	No
5	Does there any ESZ available within 10 km distance from project location? *	No	No
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	No	No

Division DFO Koderma

Letter No. 1633

Date of issue 21/04/2023

Signature

Name

Divisional Forest Officer
Koderma Forest Division

21/4

अभ्युक्ति :

- चेक प्वाइंट संख्या 02 : से संबंधित कोई अभिलेख इस कार्यालय में उपलब्ध नहीं है।
- चेक प्वाइंट संख्या 03 से 6 : याचित सूचना वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, हजारीबाग से प्राप्त करें।
- निर्गत प्रतिवेदन दूरी प्रतिवेदन मात्र है अनापत्ति प्रमाण पत्र नहीं।
- साथ ही आवेदित प्लॉट के जंगल किस्म (deemed forest) नहीं होने के संबंध में सुनिश्चित हो लें। उल्लेखनीय है कि deemed forest का अपयोजन केन्द्र सरकार की अनुमति के बिना नहीं किया जा सकता है।



Divisional Forest Officer
Koderma Forest Division

21/4



Department of Forest, Environment and Climate Change

Report of Distance from Notified Forest, National Park, Sanctuary & Eco-Sensitive Zone

Name Of Applicant	JSMDC LTD	Contact no.:	7903910693
Institution Type	Government	Location of Proposed Land	
Email ID	ravi@rianenviro.in		
District	Koderma	Battery Point	BANSDIH, NIMADIH, ARWATANR & GHUTIA
Thana No.:	189, 190, 102 & 191	Thana Name:	MARKACHO & JAINAGAR
Khata No.:	NA	Khesra Name:	911, 1129, 1, 1132, 2, 1066, 86, 128
#	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is, 250 m? * 1055 Meters or less than 10	No	No
2	Whether Project location come under No Mining Zone? *	No	No
3	Does there any National park located within 10 km from project location? *	No	No
4	Does there any Wildlife sanctuary located within 10 km distance from project location? *	No	No
5	Does there any ESZ available within 10 km distance from project location? *	No	No
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	No	No

Division DFO Koderma
Letter No. 1635
Date of issue 21/04/2023
Signature
Name
Divisional Forest Officer
Koderma Forest Division
21/4

अभ्युक्ति :

- चेक प्वाइंट संख्या 02 : से संबंधित कोई अभिलेख इस कार्यालय में उपलब्ध नहीं है।
- चेक प्वाइंट संख्या 03 से 6 : याचित सूचना वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, हजारीबाग से प्राप्त करें।
- निर्गत प्रतिवेदन दूरी प्रतिवेदन मात्र है अनापत्ति प्रमाण पत्र नहीं।
- साथ ही आवेदित प्लॉट के जंगल किस्म (deemed forest) नहीं होने के संबंध में सुनिश्चित हो लें। उल्लेखनीय है कि deemed forest का अपयोजन केन्द्र सरकार की अनुमति के बिना नहीं किया जा सकता है।

Divisional Forest Officer
Koderma Forest Division
21/4





Department of Forest, Environment and Climate Change

Report of Distance from Notified Forest, National Park, Sanctuary & Eco-Sensitive Zone

Name Of Applicant	JSMDCLTD	Contact no.:	7903910693
Institution Type	Government	Location of Proposed Land	
Email ID	ravi@rianenviro.in		
District	Koderma	Battery Point	BANSDIH & CHANDRA
Thana No.:	189 & 162	Thana Name:	MARKACHO & JAINAGAR
Khata No.:	NA	Khesra Name:	911, 1129, 1, 1132, 2 & 1428
#	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? less than or equal to	No	NO
2	Whether Project location come under No Mining Zone? *	No	No
3	Does there any National park located within 10 km from project location? *	No	No
4	Does there any Wildlife sanctuary located within 10 km distance from project location? *	No	No
5	Does there any ESZ available within 10 km distance from project location? *	No	No
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	No	No

Division DFO Koderma

Letter No. 1636

Date of issue 21/04/2023

Signature

Name

Divisional Forest Officer

Koderma Forest Division

21/4

अभ्युक्ति :

- चेक प्वाइंट संख्या 02 : से संबंधित कोई अभिलेख इस कार्यालय में उपलब्ध नहीं है।
- चेक प्वाइंट संख्या 03 से 6 : याचित सूचना वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, हजारीबाग से प्राप्त करें।
- निर्गत प्रतिवेदन दूरी प्रतिवेदन मात्र है अनापत्ति प्रमाण पत्र नहीं।
- साथ ही आवेदित प्लॉट के जंगल किस्म (deemed forest) नहीं होने के संबंध में सुनिश्चित हो लें। उल्लेखनीय है कि deemed forest का अपयोजन केन्द्र सरकार की अनुमति के बिना नहीं किया जा सकता है।

Divisional Forest Officer
Koderma Forest Division

21/4





Department of Forest, Environment and Climate Change

Report of Distance from Notified Forest, National Park, Sanctuary & Eco-Sensitive Zone

Name Of Applicant
Institution Type
Email ID

JSMDC LTD
Government
ravi@rianenviro.in

Contact no.: 7903910693

Location of Proposed Land

District
Thana No.:
Khata No.:

Koderma
188 & 163
NA

Battery Point
Thana Name:
Khesra Name:

NAGIRTO & BADULIA
MARKACHO & JAINAGAR
391, 1, 286, 925 & 916

#	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? *	NO	NO
2	Whether Project location come under No Mining Zone? *	—	—
3	Does there any National park located within 10 km from project location? *	No	No
4	Does there any Wildlife sanctuary located within 10 km distance from project location? *	No	No
5	Does there any ESZ available within 10 km distance from project location? *	No	No
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	No	No

Division DFO Koderma

Letter No. 1641

Date of issue 21/4/23

Signature

Name

Divisional Forest Officer
Koderma Forest Division

21/4

अभ्युक्ति :

- चेक प्वाइंट संख्या 02 : से संबंधित कोई अभिलेख इस कार्यालय में उपलब्ध नहीं है।
- चेक प्वाइंट संख्या 03 से 6 : याचित सूचना वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, हजारीबाग से प्राप्त करें।
- निर्गत प्रतिवेदन दूरी प्रतिवेदन मात्र है अनापत्ति प्रमाण पत्र नहीं।
- साथ ही आवेदित प्लॉट के जंगल किस्म (deemed forest) नहीं होने के संबंध में सुनिश्चित हो लें। उल्लेखनीय है कि deemed forest का अपयोजन केन्द्र सरकार की अनुमति के बिना नहीं किया जा सकता है।



Divisional Forest Officer
Koderma Forest Division

21/4



Department of Forest, Environment and Climate Change

Report of Distance from Notified Forest, National Park, Sanctuary & Eco-Sensitive Zone

Name Of Applicant
Construction Type
Email ID

JSMDC LTD
Government
ravi@rianeenviro.in

Contact no.:

7903910693

Location of Proposed Land

District
Thana No.:
Khata No.:

Koderma
163
NA

Battery Point
Thana Name:
Khesra Name:

BADULIA
JAINAGAR
1, 286, 925 & 916

Range Forest
Officer

Divisional Forest
Officer

#

Checkpoint

1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? * 103 Km or equal to	No	No
2	Whether Project location come under No Mining Zone? *	No	No
3	Does there any National park located within 10 km from project location? *	No	No
4	Does there any Wildlife sanctuary located within 10 km distance from project location? *	No	No
5	Does there any ESZ available within 10 km distance from project location? *	No	No
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	No	No

Division DFO Koderma

Letter No. 1642

Date of issue 21/4/23

Signature

Name

Divisional Forest Officer
Koderma Forest Division

21/4

अभ्युक्ति :

- चेक प्वाइंट संख्या 02 : से संबंधित कोई अभिलेख इस कार्यालय में उपलब्ध नहीं है।
- चेक प्वाइंट संख्या 03 से 6 : याचित सूचना वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, हजारीबाग से प्राप्त करें।
- निर्गत प्रतिवेदन दूरी प्रतिवेदन मात्र है अनापत्ति प्रमाण पत्र नहीं।
- साथ ही आवेदित प्लॉट के जंगल किस्म (deemed forest) नहीं होने के संबंध में सुनिश्चित हो लें। उल्लेखनीय है कि deemed forest का अपयोजन केन्द्र सरकार की अनुमति के बिना नहीं किया जा सकता है।



Divisional Forest Officer
Koderma Forest Division

21/4



Department of Forest, Environment and Climate Change

Report of Distance from Notified Forest, National Park, Sanctuary & Eco-Sensitive Zone

Name Of Applicant
Institution Type
Email ID

JSMDC LTD
Government
ravi@rianenviro.in

Contact no.: 7903910693

Location of Proposed Land

Battery Point
Thana Name:
Khesra Name:

AMBADIH & DASARO KHURD
MARKACHO
826, 2523 & 4402

District
Thana No.:
Khasa No.:

Koderma
167 & 173
NA

Checkpoint

Range Forest
Officer

Divisional Forest
Officer

- 1 Whether Distance of Project location from Reserved Forest/Protected Forest is, 250 m? NO
- 2 Whether Project location come under No Mining Zone? * NO
- 3 Does there any National park located within 10 km from project location? * NO
- 4 Does there any Wildlife sanctuary located within 10 km distance from project location? * NO
- 5 Does there any ESZ available within 10 km distance from project location? * NO
- 6 Whether Proposed project comes under prohibited category of ESZ (Yes or No)? * NO

Division DFO Koderma

Letter No. 1640

Date of issue 21/04/2023

Signature

Name

Divisional Forest Officer
Koderma Forest Division

अभ्युक्ति :

- चेक प्वाइंट संख्या 02 : से संबंधित कोई अभिलेख इस कार्यालय में उपलब्ध नहीं है।
- चेक प्वाइंट संख्या 03 से 6 : याचित सूचना वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, हजारीबाग से प्राप्त करें।
- निर्गत प्रतिवेदन दूरी प्रतिवेदन मात्र है अनापत्ति प्रमाण पत्र नहीं।
- साथ ही आवेदित प्लॉट के जंगल किस्म (deemed forest) नहीं होने के संबंध में सुनिश्चित हो लें। उल्लेखनीय है कि deemed forest का अपयोजन केन्द्र सरकार की अनुमति के बिना नहीं किया जा सकता है।



Divisional Forest Officer
Koderma Forest Division

21/4



Department of Forest, Environment and Climate Change

Report of Distance from Notified Forest, National Park, Sanctuary & Eco-Sensitive Zone

Name Of Applicant
Institution Type
Email ID

JSMDC LTD
Government
ravi@rianenviro.in

Contact no.: 7903910693
Location of Proposed Land

District
Thana No.:
Khata No.:

Koderma
167 & 173
NA

Battery Point
Thana Name:
Khesra Name:

AMBADIH & DASARO KHURD
JAINAGAR & MARKACHO
826, 2523 & 4402

#	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is/250 m? *	1.10	NO
2	Whether Project location come under No Mining Zone? *	—	—
3	Does there any National park located within 10 km from project location? *	No	No
4	Does there any Wildlife sanctuary located within 10 km distance from project location? *	No	No
5	Does there any ESZ available within 10 km distance from project location? *	No	No
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	No	No

Division DFO Koderma

Letter No. 1639

Date of issue 21/04/2023

Signature

Name

Divisional Forest Officer
Koderma Forest Division

अभ्युक्ति :

- चेक प्वाइंट संख्या 02 : से संबंधित कोई अभिलेख इस कार्यालय में उपलब्ध नहीं है।
- चेक प्वाइंट संख्या 03 से 6 : याचित सूचना वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, हजारीबाग से प्राप्त करें।
- निर्गत प्रतिवेदन दूरी प्रतिवेदन मात्र है अनापत्ति प्रमाण पत्र नहीं।
- साथ ही आवेदित प्लॉट के जंगल किस्म (deemed forest) नहीं होने के संबंध में सुनिश्चित हो लें। उल्लेखनीय है कि deemed forest का, अपयोजन केन्द्र सरकार की अनुमति के बिना नहीं किया जा सकता है।



Divisional Forest Officer
Koderma Forest Division



Department of Forest, Environment and Climate Change

Report of Distance from Notified Forest, National Park, Sanctuary & Eco-Sensitive Zone

Name of Applicant: JSMDC LTD
 Institution Type: Government
 Email ID: ravi@rianenviro.in
 Contact no.: 7903910693
 Location of Proposed Land
 District: Koderma
 Thana No.: 173
 Khasra No.: NA
 Battery Point
 Thana Name: DASARO KHURD
 Khasra Name: MARKACHO
 2523 & 4402

#	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? * less than or equal to	NO	NO
2	Whether Project location come under No Mining Zone? *	No	No
3	Does there any National park located within 10 km from project location? *	No	No
4	Does there any Wildlife sanctuary located within 10 km distance from project location? *	No	No
5	Does there any ESZ available within 10 km distance from project location? *	No	No
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	No	No

Division DFO Koderma

Letter No. 1638

Date of issue 21/04/2023

Signature

Name

Divisional Forest Officer
 Koderma Forest Division
 21/4

अभ्युक्ति :

- चेक प्वाइंट संख्या 02 : से संबंधित कोई अभिलेख इस कार्यालय में उपलब्ध नहीं है।
- चेक प्वाइंट संख्या 03 से 6 : याचित सूचना वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, हजारीबाग से प्राप्त करें।
- निर्गत प्रतिवेदन दूरी प्रतिवेदन मात्र है अनापत्ति प्रमाण पत्र नहीं।
- साथ ही आवेदित प्लॉट के जंगल किस्म (deemed forest) नहीं होने के संबंध में सुनिश्चित हो लें। उल्लेखनीय है कि deemed forest का अपयोजन केन्द्र सरकार की अनुमति के बिना नहीं किया जा सकता है।



Divisional Forest Officer
 Koderma Forest Division
 21/4

R

[Handwritten signature]



Department of Forest, Environment and Climate Change

Report of Distance from Notified Forest, National Park, Sanctuary & Eco-Sensitive Zone

Name Of Applicant	JSMDC LTD	Contact no.:	7903910693
Institution Type	Government	Location of Proposed Land	
Email ID	ravi@rianenviro.in		
District	Koderma	Battery Point	MEGHATARI. KARHARIA
Thana No.:	344.345	Thana Name:	KODERMA
Khata No.:	NA	Khesra Name:	PLOT NO - 276, 229, 363
#	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? *	✓	✓
2	Whether Project location come under No Mining Zone? *	✓	✓
3	Does there any National park located within 10 km from project location? *	✓	✓
4	Does there any Wildlife sanctuary located within 10 km distance from project location? *	✓	✓
5	Does there any ESZ available within 10 km distance from project location? *	✓	✓
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	✓	✓

Division DFO Koderma

Letter No. 1593

Date of issue 20/04/2023

Signature

Name

Divisional Forest Officer
Koderma Forest Division

अभ्युक्ति :

- आवेदित स्थल मौजा मेघातरी, करहरिया वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, हजारीबाग के क्षेत्राधिकार में आता है, अतः उक्त प्रमण्डल से दूरी प्रतिवेदन प्राप्त कर लिया जाय।
- चेक प्वाइंट संख्या 02 : से संबंधित कोई अभिलेख इस कार्यालय में उपलब्ध नहीं है।
- चेक प्वाइंट संख्या 03 से 6 : याचित सूचना वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, हजारीबाग से प्राप्त करें।
- साथ ही आवेदित प्लॉट के जंगल किस्म (deemed forest) नहीं होने के संबंध में सुनिश्चित हो लें। उल्लेखनीय है कि deemed forest का अपयोजन केन्द्र सरकार की अनुमति के बिना नहीं किया जा सकता है।



Divisional Forest Officer
Koderma Forest Division

19/4



Department of Forest, Environment and Climate Change

Report of Distance from Notified Forest, National Park, Sanctuary & Eco-Sensitive Zone

Name Of Applicant	JSMDC LTD	Contact no.:	7903910693
Institution Type	Government	Location of Proposed Land	
Email ID	ravi@riancenviro.in		
District	Koderma	Battery Point	KONKO
Thana No.:	36	Thana Name:	CHANDWARA
Khata No.:	NA	Khesra Name:	135
#	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? <i>155 Meters only</i>	NO	NO
2	Whether Project location come under No Mining Zone? *	No	No
3	Does there any National park located within 10 km from project location? *	No	No
4	Does there any Wildlife sanctuary located within 10 km distance from project location? *	Yes	No
5	Does there any ESZ available within 10 km distance from project location? *	Yes	No
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	Yes	No

Division DFO Koderma
 Letter No. 1643
 Date of issue 21/4/23
 Signature _____
 Name _____
 Divisional Forest Officer
 Koderma Forest Division
 Nitin 21/4

अभ्युक्ति :

- चेक प्वाइंट संख्या 02 : से संबंधित कोई अभिलेख इस कार्यालय में उपलब्ध नहीं है।
- चेक प्वाइंट संख्या 03 से 6 : याचित सूचना वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, हजारीबाग से प्राप्त करें।
- निर्गत प्रतिवेदन दूरी प्रतिवेदन मात्र है अनापत्ति प्रमाण पत्र नहीं।
- साथ ही आवेदित प्लॉट के जंगल किस्म (deemed forest) नहीं होने के संबंध में सुनिश्चित हो लें। उल्लेखनीय है कि deemed forest का अपयोजन केन्द्र सरकार की अनुमति के बिना नहीं किया जा सकता है।

Divisional Forest Officer
 Koderma Forest Division
 Nitin 21/4





Department of Forest, Environment and Climate Change

Report of Distance from Notified Forest, National Park, Sanctuary & Eco-Sensitive Zone

Name Of Applicant	JSMDC LTD	Contact no.:	7903910693
Institution Type	Government	Location of Proposed Land	
Email ID	ravi@rianenviro.in		
District	Koderma	Battery Point	JAMKHATI, KONKO
Thana No.:	40.36	Thana Name:	JAINAGAR CHANDWARA
Khata No.:	NA	Khesra Name:	PLOT - 1, 135.
#	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? * less than or equal to	No	No
2	Whether Project location come under No Mining Zone? *	No	No
3	Does there any National park located within 10 km from project location? *	No	No
4	Does there any Wildlife sanctuary located within 10 km distance from project location? *	Yes	No
5	Does there any ESZ available within 10 km distance from project location? *	Yes	No
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	Yes	No

Division DFO Koderma

Letter No. 1645

Date of issue 21/01/23

Signature

Name

Divisional Forest Officer
Koderma Forest Division

अभ्युक्ति :

- चेक प्वाइंट संख्या 02 : से संबंधित कोई अभिलेख इस कार्यालय में उपलब्ध नहीं है।
- चेक प्वाइंट संख्या 03 से 6 : याचित सूचना वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, हजारीबाग से प्राप्त करें।
- निर्गत प्रतिवेदन दूरी प्रतिवेदन मात्र है अनापत्ति प्रमाण पत्र नहीं।
- साथ ही आवेदित प्लॉट के जंगल किस्म (deemed forest) नहीं होने के संबंध में सुनिश्चित हो लें। उल्लेखनीय है कि deemed forest का अपयोजन केन्द्र सरकार की अनुमति के बिना नहीं किया जा सकता है।

Divisional Forest Officer
Koderma Forest Division





कार्यालय : वन प्रमण्डल पदाधिकारी, कोडरमा वन प्रमण्डल

Email - dfo-koderma@gov.in

Mob - 9431142825

पत्रांक : 1757 दिनांक : 26/04/2023

सेवा में,

जिला खनन पदाधिकारी,
कोडरमा।

विषय : कोडरमा जिलान्तर्गत District Survey Report (DSR) for Sand हेतु वन भूमि की दूरी से संबंधित प्रतिवेदन के संबंध में।

प्रसंग : सिंगल विंडो सिस्टम पर समर्पित आवेदनों के क्रम में।

महाशय,

उपरोक्त विषयक सूचित करना है कि कोडरमा जिलान्तर्गत District Survey Report (DSR) for Sand हेतु वन भूमि की दूरी प्रतिवेदन उपलब्ध कराने हेतु सिंगल विंडो सिस्टम पर समर्पित आवेदनों की जांच संबंधित वन क्षेत्र पदाधिकारी तथा प्रमण्डलीय अमीन द्वारा की गई। जांचोपरांत दूरी प्रतिवेदन निम्न रूप से प्रेषित किया जा रहा है :

क्र० सं०	मौजा का नाम	थाना / थाना नं०	खाता सं०	प्लॉट सं०	प्रोजेक्ट लोकेशन की Reserve Forest / Protected Forest से वन भूमि की दूरी 250 मीटर से कम या बराबर है या नहीं?
1	2	3	4	5	6
1	गरायंडीह	चंदवारा / 34	N.A	699,373	नहीं
2	मंझगावां	चंदवारा / 34	N.A	799	नहीं

विश्वासभाजन,

(हस्ताक्षर)
वन प्रमंडल पदाधिकारी,
कोडरमा वन प्रमण्डल।





कार्यालय : वन प्रमण्डल पदाधिकारी, कोडरमा वन प्रमण्डल

Email - dfo-koderma@gov.in

Mob - 9431142825

पत्रांक : 1691

दिनांक : 24/04/2023

सेवा में,

जिला खनन पदाधिकारी,
कोडरमा।

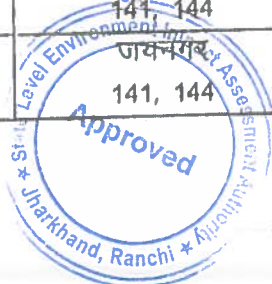
विषय : कोडरमा जिलान्तर्गत District Survey Report (DSR) for Sand हेतु वन भूमि की दूरी से संबंधित प्रतिवेदन के संबंध में।

प्रसंग : सिंगल विंडो सिस्टम पर समर्पित आवेदनों के क्रम में।

महाशय,

उपरोक्त विषयक सूचित करना है कि कोडरमा जिलान्तर्गत District Survey Report (DSR) for Sand हेतु वन भूमि की दूरी प्रतिवेदन उपलब्ध कराने हेतु सिंगल विंडो सिस्टम पर समर्पित आवेदनों की जांच संबंधित वन क्षेत्र पदाधिकारी तथा प्रमण्डलीय अमीन द्वारा की गई। जांचोपरांत दूरी प्रतिवेदन निम्न रूप से प्रेषित किया जा रहा है :

क्र० सं०	मौजा का नाम	थाना / थाना नं०	खाता सं०	प्लॉट सं०	प्रोजेक्ट लोकेशन की Reserve Forest / Protected Forest से वन भूमि की दूरी 250 मीटर से कम या बराबर है या नहीं?
1	2	3	4	5	6
1	नगीरटो, बदूलिया	मरकच्चो / जयनगर 188, 163	N.A	391, 1, 286, 925, 916	नहीं
2	बाँसडीह, चदरा, नगीरटो, बदूलिया	मरकच्चो / जयनगर 189, 162, 188, 163	N.A	911, 1129, 1, 1132, 2, 1428, 391, 1, 286, 925, 916	नहीं
3	बदूलिया, चौपनाडीह, बेलाडीह	मरकच्चो / जयनगर 163, 177, 176	N.A	1, 286, 925, 916, 289, 1, 904	नहीं
4	नगीरटो, बदूलिया	मरकच्चो / जयनगर 188, 163	N.A	391, 1, 286, 925, 916	नहीं
5	नगीरटो, बदूलिया	मरकच्चो / जयनगर 188, 163	N.A	391, 1, 286, 925, 916	नहीं
6	बदूलिया, चौपनाडीह	मरकच्चो / जयनगर 163, 177	N.A	1, 286, 925, 916, 289	नहीं
7	बदूलिया, बेलाडीह	मरकच्चो / जयनगर 163, 176	N.A	1, 286, 925, 916, 1, 904	नहीं
8	जेगियाटिला, तिलोकरी	जयनगर 141, 144	N.A	1700, 753, 1418, 1502	नहीं
9	तिलोकरी, जेगियाटिला	जयनगर 141, 144	N.A	1700, 753, 1468, 1502	नहीं



10	तिलोकरी, जोगियाटिला	जयनगर 141, 144	N.A	1502, 1700, 753, 1468	नहीं
11	बेहराडीह, जोगियाटिला, तिलोकरी	जयनगर 141, 144, 143	N.A	1586, 1700, 753, 1418, 1502	नहीं
12	तिलोकरी, जोगियाटिला	जयनगर 141, 144	N.A	1700, 753, 1468, 1502	नहीं
13	बेहराडीह, जोगियाटिला	जयनगर 141, 143	N.A	1586, 1700, 753, 1468	नहीं
14	जोगियाटिला, बेहराडीह, मंडारीया	जयनगर 141, 142, 143	N.A	1586, 1700, 753, 1468, 843	नहीं
15	गोपालडोह, ककरचौली, सांथ	जयनगर 79, 125, 121	N.A	1361, 1, 307, 731	नहीं
16	गोपालडोह, ककरचौली	जयनगर 79, 125	N.A	1361, 1, 307	नहीं
17	इरगोबाद, शर्माटौड़	जयनगर 119, 139	N.A	1110, 1479, 1	नहीं
18	सरबहना, धरमपुर, माधोपुर	सतगावाँ 9, 38, 39	N.A	637, 107, 364, 1138	आवेदित स्थल नदी तट वनरोपण के बगल में है।
19	बजुनिया, खैरा पहाड़ सिंह, महथाखैरा, सरगुनिया, शिवपुर, शिहसा, राजाबर	सतगावाँ 4, 33, 32, 9, 37, 10, 11	N.A	1278, 1, 545, 637, 1, 1069, 1, 435, 350, 351	आवेदित स्थल नदी तट वनरोपण के बगल में है।
20	घोड़दौर, डांटी	सतगावाँ 18, 2	N.A	64, 397	आवेदित स्थल नदी तट वनरोपण के बगल में है।
21	मरचौई, नराईडीह	सतगावाँ 42, 72	N.A	2033, 1, 1045	आवेदित स्थल नदी तट वनरोपण के बगल में है।
22	भदाली, घोड़दौरा, घोड़सीमर, कानीकेंद, मधवा, मिश्रीचक, सीरामपुर	सतगावाँ 20, 18, 21, 1, 27, 19, 28	N.A	441, 64, 1, 96, 99, 815, 814, 1, 211, 2, 1	आवेदित स्थल नदी तट वनरोपण के बगल में है।

अन्य आवेदन Single Window System पर अपलोड कर दिए गए हैं।

विश्वासभाजन,

[Signature]

वन प्रमंडल पदाधिकारी,
कोडरमा वन प्रमंडल।
13/11/2017



[Signature]

[Signature]



कार्यालय-वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, हजारीबाग

Email- dfo-wlhaz@gov.in, dfowildlifehazaribag@yahoo.in, Tel. No.-06546-223767 (O), 8987790209

पत्रांक :- 818

दिनांक :- 25/04/2023

प्रेषक,

वन प्रमण्डल पदाधिकारी,
वन्यप्राणी प्रमण्डल, हजारीबाग।

सेवा में,

जिला खनन पदाधिकारी,
कोडरमा।

विषय :-

कोडरमा जिलान्तर्गत विभिन्न मौजा अन्तर्गत चिन्हित बालुघाटों के संचालन हेतु वन्यप्राणी आश्रयणी के संरक्षित क्षेत्र (Protected Area) एवं इसके अधिसूचित पारिस्थितिकी संवेदनशील क्षेत्र (ESZ) से स्थिति के संबंध में।

प्रसंग:-

- (1) आपका पत्रांक-784, दिनांक-18.04.2023
- (2) पत्रांक-805, दिनांक-24.04.2023 एवं इस कार्यालय का पत्रांक-790, दिनांक-20.04.2023

महाशय,

उपर्युक्त विषयक संदर्भ में सूचित करना है कि, कोडरमा जिलान्तर्गत प्रस्तावित बालुघाटों के संचालन हेतु चिन्हित स्थल का .kml file & GPS Co-ordinate प्रसांगिक पत्र 01 के माध्यम से आपके द्वारा उपलब्ध कराया गया था, जिसके आलोक में अधोहस्ताक्षरी के प्रसांगिक पत्र द्वारा कोडरमा वन्यप्राणी आश्रयणी (Protected Area) तथा इसके अधिसूचित पारिस्थितिकी संवेदी जोन (ESZ) से संबंधित स्पष्ट प्रतिवेदन उपलब्ध कराया गया है, जिसका अवलोकन किया जा सकता है। आपके द्वारा प्रसांगिक पत्र सं0-02 के माध्यम से कोडरमा प्रखण्ड के अन्तर्गत अवस्थित ग्राम-मेघातरी, करहरिया एवं विष्णुटिकर में प्रस्तावित बालुघाट का मौजा मानचित्र संलग्न करते हुए वन सीमा से दूरी से संबंधित प्रतिवेदन की मांग की गई, जिसकी स्थिति निम्नवत है:-

SL NO.	Lease Details	PLOT_NO	LATITUDE	LONGITUDE	BLOCK_NAME	VILLAGE_NAME	अभ्युक्ति
1	Dhanarjay 01	276	24° 35' 6.212" N	85° 34' 4.110" E	KODERMA	MEGHATARI	कोडरमा वन्यप्राणी आश्रयणी के वन सीमा से 0 कि०मी० के दूरी पर अवस्थित तथा इसके अधिसूचित ESZ सीमा के अन्दर अवस्थित है।
		229	24° 35' 6.231" N	85° 34' 4.021" E	KODERMA	KARHARIA	
		363	24° 35' 6.320" N	85° 34' 3.612" E	KODERMA	KARHARIA	
2	Dhanarjay 02	280	24° 34' 43.180" N	85° 34' 56.843" E	KODERMA	BISHUNITIKAR	
		321	24° 34' 43.345" N	85° 34' 55.997" E	KODERMA	BISHUNITIKAR	
		394	24° 34' 43.184" N	85° 34' 53.999" E	KODERMA	BISHUNITIKAR	
3	Dhanarjay 03	280	24° 34' 41.423" N	85° 35' 2.799" E	KODERMA	BISHUNITIKAR	
		321	24° 34' 43.197" N	85° 34' 59.152" E	KODERMA	BISHUNITIKAR	
		394	24° 34' 44.678" N	85° 34' 55.868" E	KODERMA	BISHUNITIKAR	
4	Dhanarjay 04	280	24° 34' 36.694" N	85° 35' 4.762" E	KODERMA	BISHUNITIKAR	
		321	24° 34' 37.719" N	85° 35' 4.218" E	KODERMA	BISHUNITIKAR	
		394	24° 34' 39.708" N	85° 35' 2.945" E	KODERMA	BISHUNITIKAR	

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5	Dhanarjay 05	280	24° 35' 4.810" N	85° 34' 49.547" E	KODERMA	BISHUNITIKAR	कोडरमा वन्यप्राणी आश्रयणी के वन सीमा से 0 कि०मी० के दूरी पर अवस्थित तथा इसके अधिसूचित ESZ सीमा के अन्दर अवस्थित है।
		321	24° 35' 5.314" N	85° 34' 48.019" E	KODERMA	BISHUNITIKAR	
		394	24° 35' 5.969" N	85° 34' 46.833" E	KODERMA	BISHUNITIKAR	
		229	24° 35' 6.427" N	85° 34' 45.448" E	KODERMA	KARHARIA	
		363	24° 35' 7.002" N	85° 34' 43.049" E	KODERMA	KARHARIA	
6	Dhanarjay 06	280	24° 34' 59.975" N	85° 35' 0.091" E	KODERMA	BISHUNITIKAR	
		321	24° 35' 1.442" N	85° 34' 58.197" E	KODERMA	BISHUNITIKAR	
		394	24° 35' 1.681" N	85° 34' 57.362" E	KODERMA	BISHUNITIKAR	
		229	24° 35' 2.345" N	85° 34' 56.300" E	KODERMA	KARHARIA	
		363	24° 35' 2.944" N	85° 34' 55.191" E	KODERMA	KARHARIA	

अतः आपके सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

- नोट:- 1. माननीय सर्वोच्च न्यायालय के विभिन्न वादों में पारित न्यायादेश में आदेशित किया गया है कि Protected Area और उसके संरक्षित ESZ एवं Protected Area से 01 कि०मी० की दूरी जो भी अधिकतम हो के अन्तर्गत किसी भी प्रकार का खनन गतिविधि वर्जित है।
2. कोडरमा वन्यप्राणी आश्रयणी एवं ESZ के अन्तर्गत अवस्थित गाँवों में सुनिश्चित किया जाय कि उक्त क्षेत्रों में किसी भी प्रकार की खनन गतिविधि वर्जित है।

विश्वासभाजन

Ahany
25/04/2023
वन प्रमण्डल पदाधिकारी
वन्यप्राणी प्रमण्डल, हजारीबाग।



R

[Handwritten signature]

कार्यालय-वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, हजारीबाग

Email- dfo-wlhaz@gov.in, dfowildlifehazaribag@yahoo.in, Tel. No.-06546-223767 (O), 8987790209

पत्रांक :- 790

दिनांक :- 20.04.2023

प्रेषक,

वन प्रमण्डल पदाधिकारी,
वन्यप्राणी प्रमण्डल, हजारीबाग।

सेवा में,

जिला खनन पदाधिकारी
कोडरमा।

विषय :-

कोडरमा जिलान्तर्गत विभिन्न मौजा अन्तर्गत चिह्नित बालुघाटों के संचालन हेतु वन्यप्राणी आश्रयणी के संरक्षित क्षेत्र (Protected Area) एवं इसके अधिसूचित पारिस्थितिकी संवेदनशील क्षेत्र (ESZ) से स्थिति के संबंध में।

प्रसंग :-

आपका पत्रांक 784/खनन, दिनांक 18.04.2023

महाशय,

उपर्युक्त विषयक प्रसंगाधीन पत्र के संदर्भ में सूचित करना है कि कोडरमा जिला अन्तर्गत अवस्थित बालूघाटों के संचालन हेतु प्रस्तावित स्थल /चिह्नित स्थल का .kml file & GPS Co-ordinates प्रसांगिक पत्र के माध्यम से उपलब्ध कराया गया है, जिसकी स्थिति निम्नवत् है:-

SL NO.	Lease Details	PLOT NO	LATITUDE	LONGITUDE	BLOCK NAME	VILLAGE NAME	अभ्युक्ति
1	Dudhi 01	1	24° 22' 14.773" N	85° 31' 35.795" E	Jainagar	Jamkhathi	कोडरमा वन्यप्राणी आश्रयणी तथा इसके अधिसूचित ESZ सीमा के बाहर अवस्थित है।
		135	24° 22' 14.645" N	85° 31' 34.992" E	Chandwara	Konko	
		987	24° 22' 14.744" N	85° 31' 35.073" E	Chandwara	POKDANDA	
			24° 22' 14.919" N	85° 31' 35.331" E			
			24° 22' 15.495" N	85° 31' 36.265" E			
			24° 22' 16.133" N	85° 31' 37.152" E			
			24° 22' 16.769" N	85° 31' 38.093" E			
			24° 22' 17.166" N	85° 31' 38.532" E			
			24° 22' 17.943" N	85° 31' 38.988" E			
			24° 22' 18.141" N	85° 31' 39.163" E			
			24° 22' 18.955" N	85° 31' 39.431" E			
			24° 22' 19.445" N	85° 31' 39.595" E			
			24° 22' 19.375" N	85° 31' 39.992" E			
			24° 22' 19.222" N	85° 31' 40.209" E			
			24° 22' 18.901" N	85° 31' 40.339" E			
			24° 22' 18.586" N	85° 31' 40.352" E			
			24° 22' 18.305" N	85° 31' 40.303" E			
			24° 22' 17.279" N	85° 31' 39.888" E			
			24° 22' 17.060" N	85° 31' 39.563" E			
			24° 22' 16.550" N	85° 31' 38.653" E			
			24° 22' 15.670" N	85° 31' 37.275" E			
			24° 22' 14.964" N	85° 31' 36.079" E			
			24° 22' 14.791" N	85° 31' 35.843" E			
2	Dudhi 02	135	24° 22' 13.796" N	85° 31' 34.489" E	Chandwara	Konko	
			24° 22' 12.809" N	85° 31' 32.934" E			

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		24° 22' 13.205" N	85° 31' 33.047" E		
		24° 22' 13.542" N	85° 31' 33.368" E		
		24° 22' 13.977" N	85° 31' 34.005" E		
		24° 22' 14.287" N	85° 31' 34.385" E		
		24° 22' 14.332" N	85° 31' 34.468" E		
		24° 22' 14.347" N	85° 31' 34.491" E		
		24° 22' 14.516" N	85° 31' 34.864" E		
		24° 22' 14.552" N	85° 31' 35.482" E		
		24° 22' 14.559" N	85° 31' 35.527" E		
3	Dudhi 03	24° 22' 11.250" N	85° 31' 29.916" E		
		24° 22' 11.216" N	85° 31' 29.744" E		
		24° 22' 12.165" N	85° 31' 30.880" E		
		24° 22' 13.253" N	85° 31' 32.246" E		
		24° 22' 13.502" N	85° 31' 32.808" E		
		24° 22' 13.259" N	85° 31' 32.857" E		
		24° 22' 12.838" N	85° 31' 32.765" E		
		24° 22' 12.558" N	85° 31' 32.537" E		
		24° 22' 12.458" N	85° 31' 32.380" E		
		24° 22' 11.466" N	85° 31' 30.638" E		
		24° 22' 11.415" N	85° 31' 30.601" E		
		24° 22' 11.347" N	85° 31' 30.398" E		
		24° 22' 11.340" N	85° 31' 30.376" E		
4	Dudhi 04	24° 22' 5.332" N	85° 31' 31.901" E		
		24° 22' 5.083" N	85° 31' 31.426" E		
		24° 22' 5.099" N	85° 31' 31.250" E		
		24° 22' 5.301" N	85° 31' 30.518" E		
		24° 22' 5.607" N	85° 31' 29.365" E		
		24° 22' 5.689" N	85° 31' 29.247" E		
		24° 22' 6.023" N	85° 31' 28.980" E		
		24° 22' 6.398" N	85° 31' 28.944" E		
		24° 22' 6.925" N	85° 31' 29.064" E		
		24° 22' 6.182" N	85° 31' 29.531" E		
		24° 22' 6.031" N	85° 31' 30.363" E		
		24° 22' 5.638" N	85° 31' 32.076" E		
		24° 22' 5.574" N	85° 31' 32.495" E		
		24° 22' 5.565" N	85° 31' 32.483" E		
5	Dudhi 05	24° 21' 6.938" N	85° 31' 51.970" E		
		24° 21' 6.395" N	85° 31' 51.626" E		
		24° 21' 6.587" N	85° 31' 51.615" E		
		24° 21' 7.719" N	85° 31' 51.725" E		
		24° 21' 8.227" N	85° 31' 51.840" E		
		24° 21' 8.361" N	85° 31' 51.996" E		
		24° 21' 8.609" N	85° 31' 52.273" E		
		24° 21' 8.862" N	85° 31' 52.543" E		
		24° 21' 8.997" N	85° 31' 52.681" E		
		24° 21' 8.891" N	85° 31' 52.677" E		
				Chandwara	Garaindh

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		24° 21' 8.312" N	85° 31' 52.489" E		
		24° 21' 7.913" N	85° 31' 52.229" E		
		24° 21' 7.487" N	85° 31' 52.094" E		
6	Dudhi 06	24° 21' 0.430" N	85° 31' 58.954" E		
		24° 21' 0.147" N	85° 31' 58.383" E		
		24° 21' 0.166" N	85° 31' 57.833" E		
		24° 21' 0.330" N	85° 31' 57.383" E		
		24° 21' 0.540" N	85° 31' 57.051" E		
		24° 21' 0.649" N	85° 31' 56.642" E		
		24° 21' 0.677" N	85° 31' 56.183" E		
		24° 21' 0.704" N	85° 31' 55.616" E		
		24° 21' 0.898" N	85° 31' 54.934" E		
	699	24° 21' 1.055" N	85° 31' 54.599" E	Chandwara	Garaindih
	373	24° 21' 1.767" N	85° 31' 53.470" E	Chandwara	Garaindih
		24° 21' 2.014" N	85° 31' 53.163" E		
		24° 21' 2.453" N	85° 31' 52.830" E		
		24° 21' 3.123" N	85° 31' 52.385" E		
		24° 21' 3.607" N	85° 31' 52.167" E		
		24° 21' 4.027" N	85° 31' 51.990" E		
		24° 21' 4.327" N	85° 31' 51.952" E		
		24° 21' 4.451" N	85° 31' 51.928" E		
		24° 21' 4.722" N	85° 31' 51.915" E		
		24° 21' 5.273" N	85° 31' 51.907" E		
		24° 21' 5.815" N	85° 31' 51.817" E		
		24° 21' 6.318" N	85° 31' 51.915" E		
		24° 21' 6.601" N	85° 31' 52.157" E		
		24° 21' 7.127" N	85° 31' 52.523" E		
		24° 21' 7.095" N	85° 31' 52.559" E		
		24° 21' 6.568" N	85° 31' 52.383" E		
		24° 21' 6.532" N	85° 31' 52.385" E		
		24° 21' 4.903" N	85° 31' 52.486" E		
		24° 21' 2.991" N	85° 31' 53.041" E		
		24° 21' 2.025" N	85° 31' 54.768" E		
		24° 21' 1.017" N	85° 31' 56.701" E		
		24° 21' 0.945" N	85° 31' 59.371" E		
		24° 21' 0.933" N	85° 31' 59.385" E		
		24° 21' 0.629" N	85° 31' 59.468" E		
7	Akto 01	24° 21' 39.392" N	85° 38' 7.540" E		
		24° 21' 39.242" N	85° 38' 7.169" E		
	1361	24° 21' 39.026" N	85° 38' 6.428" E	JAINAGAR	GOPALDOH
	1	24° 21' 39.077" N	85° 38' 5.885" E	JAINAGAR	KAKARCHOLI
	307	24° 21' 39.157" N	85° 38' 4.796" E	JAINAGAR	KAKARCHOLI
		24° 21' 39.238" N	85° 38' 3.872" E		
		24° 21' 39.326" N	85° 38' 3.116" E		
		24° 21' 39.336" N	85° 38' 2.491" E		
		24° 21' 39.278" N	85° 38' 1.486" E		



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			24° 21' 39.443" N	85° 38' 0.428" E		
			24° 21' 39.622" N	85° 37' 59.859" E		
			24° 21' 39.949" N	85° 37' 59.608" E		
			24° 21' 40.463" N	85° 37' 59.499" E		
			24° 21' 40.823" N	85° 37' 59.868" E		
			24° 21' 40.537" N	85° 38' 2.988" E		
			24° 21' 40.280" N	85° 38' 5.069" E		
			24° 21' 39.432" N	85° 38' 7.459" E		
8	Akto 02		24° 21' 35.160" N	85° 38' 11.968" E		
			24° 21' 34.945" N	85° 38' 12.008" E		
			24° 21' 35.588" N	85° 38' 10.674" E		
		1361	24° 21' 36.500" N	85° 38' 8.926" E	JAINAGAR	GOPALDOH
		1	24° 21' 37.631" N	85° 38' 6.947" E	JAINAGAR	KAKARCHOLI
		307	24° 21' 38.070" N	85° 38' 6.141" E	JAINAGAR	KAKARCHOLI
		731	24° 21' 38.147" N	85° 38' 6.163" E	JAINAGAR	SANTH
			24° 21' 38.576" N	85° 38' 7.042" E		
			24° 21' 38.769" N	85° 38' 8.347" E		
			24° 21' 37.982" N	85° 38' 9.401" E		
			24° 21' 36.420" N	85° 38' 11.110" E		
9	Akto 03		24° 20' 46.718" N	85° 40' 7.849" E		
			24° 20' 45.228" N	85° 40' 9.770" E		
			24° 20' 45.528" N	85° 40' 8.628" E		
			24° 20' 46.080" N	85° 40' 7.189" E		
		1110	24° 20' 46.504" N	85° 40' 6.071" E	JAINAGAR	IRGOBAD
		1479	24° 20' 46.967" N	85° 40' 4.761" E	JAINAGAR	IRGOBAD
		1	24° 20' 47.468" N	85° 40' 3.566" E	JAINAGAR	SARMATANR
			24° 20' 47.841" N	85° 40' 2.589" E		
			24° 20' 48.072" N	85° 40' 1.664" E		
			24° 20' 48.380" N	85° 40' 0.289" E		
			24° 20' 48.578" N	85° 39' 59.612" E		
			24° 20' 49.407" N	85° 39' 58.191" E		
			24° 20' 50.358" N	85° 39' 56.812" E		
			24° 20' 52.187" N	85° 39' 54.488" E		
			24° 20' 54.229" N	85° 39' 51.496" E		
			24° 20' 55.464" N	85° 39' 52.802" E		
			24° 20' 55.141" N	85° 39' 53.568" E		
			24° 20' 54.950" N	85° 39' 53.987" E		
			24° 20' 53.896" N	85° 39' 56.278" E		
			24° 20' 53.204" N	85° 39' 57.679" E		
			24° 20' 53.008" N	85° 39' 58.038" E		
			24° 20' 50.824" N	85° 40' 2.163" E		
			24° 20' 48.908" N	85° 40' 6.016" E		
			24° 20' 48.809" N	85° 40' 6.206" E		
			24° 20' 48.179" N	85° 40' 6.536" E		
	Akto 04	1586	24° 20' 10.360" N	85° 40' 29.409" E	JAINAGAR	BEHRADIH
		1700	24° 20' 9.519" N	85° 40' 30.508" E	JAINAGAR	JOGIATILA
		753	24° 20' 8.339" N	85° 40' 31.232" E	JAINAGAR	JOGIATILA



Handwritten signatures and initials: A, B, R, and a large stylized signature.

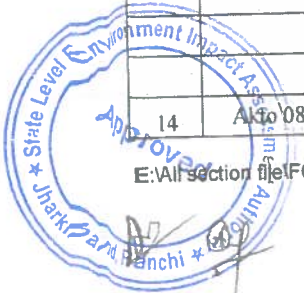
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		1468	24° 20' 8.323" N	85° 40' 30.143" E	JAINAGAR	JOGIATILA
		843	24° 20' 8.402" N	85° 40' 29.383" E	JAINAGAR	MANDARIA
			24° 20' 8.626" N	85° 40' 28.499" E		
			24° 20' 8.832" N	85° 40' 27.990" E		
			24° 20' 8.946" N	85° 40' 27.902" E		
			24° 20' 9.923" N	85° 40' 27.003" E		
			24° 20' 10.206" N	85° 40' 26.685" E		
			24° 20' 10.292" N	85° 40' 26.601" E		
			24° 20' 10.292" N	85° 40' 26.615" E		
			24° 20' 10.288" N	85° 40' 27.002" E		
			24° 20' 10.292" N	85° 40' 27.389" E		
			24° 20' 10.303" N	85° 40' 27.776" E		
			24° 20' 10.323" N	85° 40' 28.162" E		
			24° 20' 10.350" N	85° 40' 28.548" E		
			24° 20' 10.385" N	85° 40' 28.933" E		
			24° 20' 10.427" N	85° 40' 29.317" E		
			24° 20' 10.429" N	85° 40' 29.330" E		
11	Akto 05	1586	24° 20' 8.179" N	85° 40' 29.777" E	JAINAGAR	BEHRADIH
		1700	24° 20' 8.140" N	85° 40' 30.556" E	JAINAGAR	JOGIATILA
		753	24° 20' 8.193" N	85° 40' 31.253" E	JAINAGAR	JOGIATILA
		1468	24° 20' 7.402" N	85° 40' 31.837" E	JAINAGAR	JOGIATILA
			24° 20' 6.870" N	85° 40' 32.306" E		
			24° 20' 6.374" N	85° 40' 32.720" E		
			24° 20' 5.707" N	85° 40' 33.331" E		
			24° 20' 5.063" N	85° 40' 33.580" E		
			24° 20' 4.227" N	85° 40' 34.311" E		
			24° 20' 3.867" N	85° 40' 34.553" E		
			24° 20' 4.000" N	85° 40' 34.198" E		
			24° 20' 4.526" N	85° 40' 33.106" E		
			24° 20' 5.117" N	85° 40' 32.104" E		
			24° 20' 5.554" N	85° 40' 31.461" E		
			24° 20' 6.171" N	85° 40' 30.420" E		
			24° 20' 6.711" N	85° 40' 29.649" E		
			24° 20' 7.841" N	85° 40' 28.750" E		
			24° 20' 8.546" N	85° 40' 28.210" E		
			24° 20' 8.347" N	85° 40' 28.880" E		
12	Akto 06	1586	24° 20' 0.783" N	85° 40' 38.782" E	JAINAGAR	BEHRADIH
		1700	24° 20' 0.652" N	85° 40' 38.677" E	JAINAGAR	JOGIATILA
		753	24° 20' 1.225" N	85° 40' 38.386" E	JAINAGAR	JOGIATILA
		1468	24° 20' 1.646" N	85° 40' 38.092" E	JAINAGAR	JOGIATILA
		1502	24° 20' 2.070" N	85° 40' 37.854" E	JAINAGAR	TILOKRI
			24° 20' 2.438" N	85° 40' 37.576" E		
			24° 20' 2.685" N	85° 40' 37.256" E		
			24° 20' 2.871" N	85° 40' 36.434" E		
			24° 20' 3.010" N	85° 40' 36.125" E		
			24° 20' 3.062" N	85° 40' 36.100" E		
			24° 20' 3.434" N	85° 40' 35.714" E		



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			24° 20' 3.812" N	85° 40' 34.700" E		
			24° 20' 4.339" N	85° 40' 34.451" E		
			24° 20' 4.688" N	85° 40' 34.008" E		
			24° 20' 5.305" N	85° 40' 33.615" E		
			24° 20' 5.936" N	85° 40' 33.283" E		
			24° 20' 6.529" N	85° 40' 32.890" E		
			24° 20' 7.182" N	85° 40' 32.210" E		
			24° 20' 7.794" N	85° 40' 31.810" E		
			24° 20' 6.045" N	85° 40' 35.057" E		
			24° 20' 5.372" N	85° 40' 36.154" E		
			24° 20' 3.318" N	85° 40' 37.992" E		
			24° 20' 2.898" N	85° 40' 38.243" E		
			24° 20' 1.843" N	85° 40' 38.660" E		
13	Akto 07	1502	24° 19' 50.042" N	85° 40' 33.091" E	JAINAGAR	TILOKRI
		1502	24° 19' 49.884" N	85° 40' 31.963" E	JAINAGAR	TILOKRI
		1700	24° 19' 49.933" N	85° 40' 31.035" E	JAINAGAR	JOGIATILA
		753	24° 19' 50.225" N	85° 40' 30.125" E	JAINAGAR	JOGIATILA
		1468	24° 19' 50.684" N	85° 40' 29.364" E	JAINAGAR	JOGIATILA
			24° 19' 50.818" N	85° 40' 29.634" E		
			24° 19' 50.829" N	85° 40' 29.675" E		
			24° 19' 51.305" N	85° 40' 30.922" E		
			24° 19' 52.037" N	85° 40' 32.065" E		
			24° 19' 53.155" N	85° 40' 33.427" E		
			24° 19' 53.190" N	85° 40' 33.459" E		
			24° 19' 53.408" N	85° 40' 33.746" E		
			24° 19' 53.757" N	85° 40' 33.967" E		
			24° 19' 54.144" N	85° 40' 34.314" E		
			24° 19' 54.465" N	85° 40' 34.545" E		
			24° 19' 56.007" N	85° 40' 35.354" E		
			24° 19' 57.472" N	85° 40' 35.958" E		
			24° 19' 57.795" N	85° 40' 36.029" E		
			24° 19' 57.915" N	85° 40' 36.083" E		
			24° 20' 0.736" N	85° 40' 36.733" E		
			24° 20' 2.587" N	85° 40' 36.513" E		
			24° 20' 2.390" N	85° 40' 37.196" E		
			24° 20' 1.940" N	85° 40' 37.691" E		
			24° 20' 0.846" N	85° 40' 38.325" E		
			24° 20' 0.016" N	85° 40' 38.870" E		
			24° 19' 59.848" N	85° 40' 38.889" E		
			24° 19' 58.899" N	85° 40' 38.866" E		
			24° 19' 56.078" N	85° 40' 37.983" E		
			24° 19' 55.595" N	85° 40' 37.787" E		
			24° 19' 54.363" N	85° 40' 37.271" E		
			24° 19' 52.032" N	85° 40' 35.553" E		
			24° 19' 51.455" N	85° 40' 35.013" E		
			24° 19' 50.487" N	85° 40' 33.808" E		
14	Akto 08		24° 19' 46.194" N	85° 40' 22.693" E		



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		24° 19' 46.138" N	85° 40' 22.027" E		
		24° 19' 47.289" N	85° 40' 23.006" E		
		24° 19' 48.614" N	85° 40' 24.080" E		
	1700	24° 19' 49.251" N	85° 40' 24.899" E	JAINAGAR	JOGIATILA
	753	24° 19' 49.688" N	85° 40' 25.637" E	JAINAGAR	JOGIATILA
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	1502	24° 19' 50.000" N	85° 40' 26.832" E	JAINAGAR	TILOKRI
		24° 19' 50.280" N	85° 40' 28.140" E		
		24° 19' 50.480" N	85° 40' 28.427" E		
		24° 19' 50.626" N	85° 40' 28.950" E		
		24° 19' 50.425" N	85° 40' 29.528" E		
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		24° 19' 49.631" N	85° 40' 31.960" E		
		24° 19' 49.602" N	85° 40' 32.302" E		
		24° 19' 49.371" N	85° 40' 32.264" E		
		24° 19' 49.033" N	85° 40' 31.433" E		
		24° 19' 48.352" N	85° 40' 29.699" E		
		24° 19' 47.336" N	85° 40' 27.746" E		
		24° 19' 46.501" N	85° 40' 23.788" E		
15	Akto 09	24° 19' 32.748" N	85° 40' 24.231" E		
		24° 19' 32.707" N	85° 40' 24.261" E		
		24° 19' 32.948" N	85° 40' 22.473" E		
		24° 19' 33.006" N	85° 40' 22.361" E		
		24° 19' 33.725" N	85° 40' 21.186" E		
	1700	24° 19' 33.856" N	85° 40' 21.053" E	JAINAGAR	JOGIATILA
	753	24° 19' 34.111" N	85° 40' 20.680" E	JAINAGAR	JOGIATILA
	1468	24° 19' 35.438" N	85° 40' 19.756" E	JAINAGAR	JOGIATILA
	1502	24° 19' 37.247" N	85° 40' 19.025" E	JAINAGAR	TILOKRI
		24° 19' 38.168" N	85° 40' 18.525" E		
		24° 19' 38.404" N	85° 40' 18.642" E		
		24° 19' 38.730" N	85° 40' 18.794" E		
		24° 19' 39.059" N	85° 40' 18.938" E		
		24° 19' 39.391" N	85° 40' 19.075" E		
		24° 19' 39.725" N	85° 40' 19.203" E		
		24° 19' 40.062" N	85° 40' 19.323" E		
		24° 19' 40.401" N	85° 40' 19.436" E		
		24° 19' 40.743" N	85° 40' 19.540" E		
		24° 19' 41.086" N	85° 40' 19.636" E		
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		24° 19' 42.127" N	85° 40' 19.875" E		
		24° 19' 42.392" N	85° 40' 19.923" E		
		24° 19' 41.565" N	85° 40' 20.001" E		
		24° 19' 40.041" N	85° 40' 20.509" E		
		24° 19' 38.162" N	85° 40' 21.294" E		
		24° 19' 37.367" N	85° 40' 21.693" E		
		24° 19' 35.014" N	85° 40' 22.477" E		

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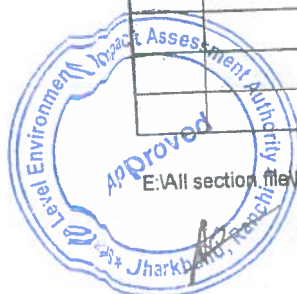
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16

Dhanarjay
01

	24° 19' 44.695" N	85° 40' 20.141" E		
	24° 19' 44.949" N	85° 40' 20.144" E		
	24° 19' 45.303" N	85° 40' 20.140" E		
	24° 19' 45.658" N	85° 40' 20.128" E		
	24° 19' 46.012" N	85° 40' 20.106" E		
	24° 19' 46.365" N	85° 40' 20.077" E		
	24° 19' 46.718" N	85° 40' 20.039" E		
	24° 19' 47.070" N	85° 40' 19.993" E		
	24° 19' 47.393" N	85° 40' 19.942" E		
	24° 19' 47.630" N	85° 40' 20.321" E		
	24° 19' 48.157" N	85° 40' 21.323" E		
	24° 19' 48.850" N	85° 40' 23.084" E		
	24° 19' 49.120" N	85° 40' 23.877" E		
	24° 19' 49.326" N	85° 40' 24.516" E		
	24° 19' 47.814" N	85° 40' 23.061" E		
	24° 19' 46.739" N	85° 40' 22.044" E		
	24° 19' 45.899" N	85° 40' 21.644" E		
	24° 19' 45.859" N	85° 40' 21.501" E		
	24° 35' 6.461" N	85° 34' 4.286" E		
	24° 35' 6.189" N	85° 34' 4.216" E		
276	24° 35' 6.212" N	85° 34' 4.110" E	KODERMA	MEGHATARI
229	24° 35' 6.231" N	85° 34' 4.021" E	KODERMA	KARHARIA
363	24° 35' 6.320" N	85° 34' 3.612" E	KODERMA	KARHARIA
	24° 35' 6.332" N	85° 34' 3.528" E		
	24° 35' 6.484" N	85° 34' 2.513" E		
	24° 35' 8.242" N	85° 34' 0.162" E		
	24° 35' 9.528" N	85° 33' 59.351" E		
	24° 35' 9.604" N	85° 34' 0.050" E		
	24° 35' 9.526" N	85° 34' 1.136" E		
	24° 35' 8.610" N	85° 34' 2.357" E		
	24° 35' 8.226" N	85° 34' 4.605" E		
	24° 35' 8.212" N	85° 34' 4.871" E		
	24° 35' 8.157" N	85° 34' 4.848" E		
	24° 35' 7.822" N	85° 34' 4.720" E		
	24° 35' 7.485" N	85° 34' 4.599" E		
	24° 35' 7.146" N	85° 34' 4.486" E		
	24° 35' 6.805" N	85° 34' 4.382" E		
17	Dhanarjay 02	24° 34' 44.277" N	85° 34' 55.702" E	
		24° 34' 43.184" N	85° 34' 56.861" E	
280		24° 34' 43.180" N	85° 34' 56.843" E	KODERMA BISHUNITIKAR
321		24° 34' 43.345" N	85° 34' 55.997" E	KODERMA BISHUNITIKAR
394		24° 34' 43.184" N	85° 34' 53.999" E	KODERMA BISHUNITIKAR
		24° 34' 42.781" N	85° 34' 52.500" E	
		24° 34' 42.633" N	85° 34' 51.983" E	
		24° 34' 42.807" N	85° 34' 52.031" E	

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			24° 34' 43.152" N	85° 34' 52.119" E		
			24° 34' 43.499" N	85° 34' 52.199" E		
			24° 34' 43.847" N	85° 34' 52.270" E		
			24° 34' 44.197" N	85° 34' 52.334" E		
			24° 34' 44.257" N	85° 34' 52.343" E		
			24° 34' 44.406" N	85° 34' 54.435" E		
18	Dhanarjay 03		24° 34' 41.298" N	85° 35' 4.403" E		
			24° 34' 41.189" N	85° 35' 4.080" E		
		280	24° 34' 41.423" N	85° 35' 2.799" E	KODERMA	BISHUNITIKAR
		321	24° 34' 43.197" N	85° 34' 59.152" E	KODERMA	BISHUNITIKAR
		394	24° 34' 44.678" N	85° 34' 55.868" E	KODERMA	BISHUNITIKAR
			24° 34' 44.913" N	85° 34' 56.350" E		
			24° 34' 44.989" N	85° 34' 56.829" E		
			24° 34' 45.317" N	85° 34' 58.720" E		
			24° 34' 45.328" N	85° 34' 59.419" E		
			24° 34' 44.886" N	85° 35' 0.509" E		
			24° 34' 44.197" N	85° 35' 1.650" E		
			24° 34' 42.922" N	85° 35' 3.346" E		
			24° 34' 42.316" N	85° 35' 3.891" E		
19	Dhanarjay 04		24° 34' 35.293" N	85° 35' 5.914" E		
			24° 34' 34.965" N	85° 35' 5.916" E		
			24° 34' 35.325" N	85° 35' 5.588" E		
		280	24° 34' 36.694" N	85° 35' 4.762" E	KODERMA	BISHUNITIKAR
		321	24° 34' 37.719" N	85° 35' 4.218" E	KODERMA	BISHUNITIKAR
		394	24° 34' 39.708" N	85° 35' 2.945" E	KODERMA	BISHUNITIKAR
			24° 34' 40.600" N	85° 35' 2.406" E		
			24° 34' 41.294" N	85° 35' 2.001" E		
			24° 34' 40.450" N	85° 35' 3.263" E		
			24° 34' 39.468" N	85° 35' 4.191" E		
			24° 34' 38.388" N	85° 35' 5.184" E		
			24° 34' 37.610" N	85° 35' 5.585" E		
			24° 34' 36.829" N	85° 35' 5.734" E		
			24° 34' 36.019" N	85° 35' 5.801" E		
20	Dhanarjay 07		24° 35' 4.880" N	85° 34' 50.658" E		
		280	24° 35' 4.810" N	85° 34' 49.547" E	KODERMA	BISHUNITIKAR
		321	24° 35' 5.314" N	85° 34' 48.019" E	KODERMA	BISHUNITIKAR
		394	24° 35' 5.969" N	85° 34' 46.833" E	KODERMA	BISHUNITIKAR
		229	24° 35' 6.427" N	85° 34' 45.448" E	KODERMA	KARHARIA
		363	24° 35' 7.002" N	85° 34' 43.049" E	KODERMA	KARHARIA
			24° 35' 7.523" N	85° 34' 40.960" E		
			24° 35' 7.655" N	85° 34' 40.571" E		
			24° 35' 7.891" N	85° 34' 40.540" E		
			24° 35' 8.242" N	85° 34' 40.485" E		
			24° 35' 8.333" N	85° 34' 40.469" E		
			24° 35' 8.330" N	85° 34' 40.496" E		
			24° 35' 8.155" N	85° 34' 41.934" E		

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			24° 35' 6.539" N	85° 34' 48.055" E		
			24° 35' 5.683" N	85° 34' 50.351" E		
			24° 35' 4.977" N	85° 34' 52.173" E		
			24° 35' 4.956" N	85° 34' 51.637" E		
21	Dhanarjay 08		24° 34' 59.911" N	85° 35' 0.840" E		
			24° 34' 59.383" N	85° 35' 1.037" E		
		280	24° 34' 59.975" N	85° 35' 0.091" E	KODERMA	BISHUNITIKAR
		321	24° 35' 1.442" N	85° 34' 58.197" E	KODERMA	BISHUNITIKAR
		394	24° 35' 1.681" N	85° 34' 57.362" E	KODERMA	BISHUNITIKAR
		229	24° 35' 2.345" N	85° 34' 56.300" E	KODERMA	KARHARIA
		363	24° 35' 2.944" N	85° 34' 55.191" E	KODERMA	KARHARIA
			24° 35' 2.996" N	85° 34' 55.051" E		
			24° 35' 3.070" N	85° 34' 54.929" E		
			24° 35' 3.215" N	85° 34' 54.470" E		
			24° 35' 3.582" N	85° 34' 53.495" E		
			24° 35' 3.740" N	85° 34' 54.291" E		
			24° 35' 3.153" N	85° 34' 56.527" E		
			24° 35' 2.714" N	85° 34' 58.149" E		
			24° 35' 1.899" N	85° 34' 59.622" E		
			24° 35' 0.903" N	85° 35' 0.331" E		
22	Keso 01		24° 22' 24.182" N	85° 44' 43.657" E		
			24° 22' 21.970" N	85° 44' 39.919" E		
		1	24° 22' 22.032" N	85° 44' 38.894" E	MARKACHO	BIRAJPUR
		1066	24° 22' 22.522" N	85° 44' 38.003" E	MARKACHO	NIMADIH
		911	24° 22' 23.148" N	85° 44' 38.472" E	MARKACHO	BANSDIH
		1129	24° 22' 23.410" N	85° 44' 38.786" E	MARKACHO	BANSDIH
		1	24° 22' 23.453" N	85° 44' 39.225" E	MARKACHO	BANSDIH
		1132	24° 22' 23.575" N	85° 44' 40.123" E	MARKACHO	BANSDIH
		2	24° 22' 24.769" N	85° 44' 42.029" E	MARKACHO	BANSDIH
			24° 22' 25.486" N	85° 44' 43.572" E		
			24° 22' 25.765" N	85° 44' 44.125" E		
			24° 22' 25.926" N	85° 44' 44.848" E		
			24° 22' 26.447" N	85° 44' 45.211" E		
			24° 22' 27.334" N	85° 44' 45.514" E		
			24° 22' 27.445" N	85° 44' 45.502" E		
			24° 22' 27.422" N	85° 44' 45.842" E		
			24° 22' 27.402" N	85° 44' 46.229" E		
			24° 22' 27.396" N	85° 44' 46.450" E		
			24° 22' 26.855" N	85° 44' 46.278" E		
23	Keso 02	911	24° 22' 19.538" N	85° 44' 28.235" E	MARKACHO	BANSDIH
		1129	24° 22' 20.342" N	85° 44' 24.887" E	MARKACHO	BANSDIH
		1	24° 22' 21.842" N	85° 44' 26.710" E	MARKACHO	BANSDIH
		1132	24° 22' 22.881" N	85° 44' 28.424" E	MARKACHO	BANSDIH
		2	24° 22' 23.306" N	85° 44' 29.742" E	MARKACHO	BANSDIH
			24° 22' 22.921" N	85° 44' 32.251" E	MARKACHO	NIMADIH
			24° 22' 22.206" N	85° 44' 35.038" E		



			24° 22' 21.958" N	85° 44' 35.862" E		
			24° 22' 21.852" N	85° 44' 34.132" E		
			24° 22' 20.962" N	85° 44' 30.517" E		
24	Keso 03	911	24° 22' 19.538" N	85° 44' 28.235" E	MARKACHO	BANSDIH
		1129	24° 22' 19.060" N	85° 44' 27.467" E	MARKACHO	BANSDIH
		1	24° 22' 17.055" N	85° 44' 25.874" E	MARKACHO	BANSDIH
		1132	24° 22' 13.441" N	85° 44' 23.407" E	MARKACHO	BANSDIH
		2	24° 22' 10.671" N	85° 44' 22.011" E	MARKACHO	BANSDIH
		1066	24° 22' 12.526" N	85° 44' 21.270" E	MARKACHO	NIMADIH
		86	24° 22' 14.929" N	85° 44' 21.403" E	JAINAGAR	ARWATANR
		128	24° 22' 16.758" N	85° 44' 22.202" E	MARKACHO	GHUTIA
			24° 22' 18.451" N	85° 44' 23.286" E		
			24° 22' 20.316" N	85° 44' 24.855" E		
			24° 22' 20.342" N	85° 44' 24.887" E		
25	Keso 04	911	24° 21' 36.132" N	85° 44' 42.736" E	MARKACHO	BANSDIH
		1129	24° 21' 35.109" N	85° 44' 42.941" E	MARKACHO	BANSDIH
		1	24° 21' 35.796" N	85° 44' 41.468" E	MARKACHO	BANSDIH
		1132	24° 21' 37.766" N	85° 44' 37.784" E	MARKACHO	BANSDIH
		2	24° 21' 40.799" N	85° 44' 33.125" E	MARKACHO	BANSDIH
		1428	24° 21' 40.964" N	85° 44' 32.857" E	JAINAGAR	CHANDRA
			24° 21' 41.104" N	85° 44' 33.027" E		
			24° 21' 41.346" N	85° 44' 33.309" E		
			24° 21' 41.594" N	85° 44' 33.586" E		
			24° 21' 41.847" N	85° 44' 33.857" E		
			24° 21' 42.106" N	85° 44' 34.121" E		
			24° 21' 42.370" N	85° 44' 34.380" E		
			24° 21' 42.639" N	85° 44' 34.632" E		
			24° 21' 42.913" N	85° 44' 34.877" E		
			24° 21' 43.192" N	85° 44' 35.116" E		
			24° 21' 43.476" N	85° 44' 35.348" E		
			24° 21' 43.764" N	85° 44' 35.574" E		
			24° 21' 43.903" N	85° 44' 35.678" E		
			24° 21' 42.359" N	85° 44' 36.945" E		
			24° 21' 40.680" N	85° 44' 38.728" E		
			24° 21' 38.829" N	85° 44' 40.209" E		
			24° 21' 37.059" N	85° 44' 41.837" E		
26	Keso 05	911	24° 21' 35.116" N	85° 44' 51.127" E	MARKACHO	BANSDIH
		1129	24° 21' 34.619" N	85° 44' 53.285" E	MARKACHO	BANSDIH
		1	24° 21' 33.968" N	85° 44' 56.181" E	MARKACHO	BANSDIH
		1132	24° 21' 33.249" N	85° 44' 58.545" E	MARKACHO	BANSDIH
		2	24° 21' 31.484" N	85° 45' 2.999" E	MARKACHO	BANSDIH
		1428	24° 21' 30.950" N	85° 45' 3.632" E	JAINAGAR	CHANDRA
		391	24° 21' 30.813" N	85° 45' 3.388" E	MARKACHO	NAGIRTO
		1	24° 21' 30.674" N	85° 45' 1.778" E	JAINAGAR	BADULIA
		286	24° 21' 31.009" N	85° 45' 0.467" E	JAINAGAR	BADULIA
		925	24° 21' 31.314" N	85° 44' 59.341" E	JAINAGAR	BADULIA
		916	24° 21' 31.874" N	85° 44' 57.660" E	JAINAGAR	BADULIA

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			24° 21' 31.867" N	85° 44' 55.391" E		
			24° 21' 31.879" N	85° 44' 52.532" E		
			24° 21' 32.695" N	85° 44' 50.727" E		
			24° 21' 33.323" N	85° 44' 49.368" E		
			24° 21' 34.571" N	85° 44' 47.453" E		
			24° 21' 34.570" N	85° 44' 47.428" E		
			24° 21' 34.563" N	85° 44' 47.276" E		
			24° 21' 35.472" N	85° 44' 46.166" E		
			24° 21' 36.407" N	85° 44' 45.378" E		
			24° 21' 36.755" N	85° 44' 43.981" E		
			24° 21' 37.370" N	85° 44' 43.117" E		
			24° 21' 38.504" N	85° 44' 42.622" E		
			24° 21' 38.828" N	85° 44' 42.530" E		
			24° 21' 37.823" N	85° 44' 43.897" E		
			24° 21' 37.120" N	85° 44' 45.490" E		
			24° 21' 35.784" N	85° 44' 48.317" E		
27	Keso 06	391	24° 21' 29.804" N	85° 45' 1.437" E	MARKACHO	NAGIRTO
		1	24° 21' 29.692" N	85° 45' 2.471" E	JAINAGAR	BADULIA
		286	24° 21' 29.851" N	85° 45' 3.143" E	JAINAGAR	BADULIA
		925	24° 21' 29.922" N	85° 45' 3.950" E	JAINAGAR	BADULIA
		916	24° 21' 29.451" N	85° 45' 5.105" E	JAINAGAR	BADULIA
			24° 21' 27.510" N	85° 45' 6.239" E		
			24° 21' 26.491" N	85° 45' 7.088" E		
			24° 21' 25.737" N	85° 45' 7.709" E		
			24° 21' 24.854" N	85° 45' 7.971" E		
			24° 21' 23.976" N	85° 45' 8.207" E		
			24° 21' 23.195" N	85° 45' 8.546" E		
			24° 21' 22.170" N	85° 45' 9.144" E		
			24° 21' 21.791" N	85° 45' 9.455" E		
			24° 21' 23.290" N	85° 45' 7.474" E		
			24° 21' 25.740" N	85° 45' 5.213" E		
			24° 21' 27.504" N	85° 45' 2.198" E		
			24° 21' 29.903" N	85° 44' 59.885" E		
			24° 21' 30.099" N	85° 44' 59.186" E		
			24° 21' 30.342" N	85° 44' 59.659" E		
			24° 21' 30.639" N	85° 45' 0.155" E		
			24° 21' 30.515" N	85° 45' 0.726" E		
28	Keso 07	391	24° 21' 22.605" N	85° 45' 12.521" E	MARKACHO	NAGIRTO
		1	24° 21' 19.711" N	85° 45' 14.962" E	JAINAGAR	BADULIA
		286	24° 21' 19.634" N	85° 45' 14.698" E	JAINAGAR	BADULIA
		925	24° 21' 19.808" N	85° 45' 14.054" E	JAINAGAR	BADULIA
		916	24° 21' 20.192" N	85° 45' 13.409" E	JAINAGAR	BADULIA
			24° 21' 20.629" N	85° 45' 12.849" E		
			24° 21' 21.072" N	85° 45' 12.549" E		
			24° 21' 21.397" N	85° 45' 11.757" E		
			24° 21' 21.131" N	85° 45' 11.258" E		
			24° 21' 21.036" N	85° 45' 10.999" E		



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			24° 21' 21.359" N	85° 45' 10.572" E		
			24° 21' 21.769" N	85° 45' 10.331" E		
			24° 21' 22.169" N	85° 45' 10.470" E		
			24° 21' 22.556" N	85° 45' 10.650" E		
			24° 21' 23.059" N	85° 45' 10.593" E		
			24° 21' 23.679" N	85° 45' 10.203" E		
			24° 21' 24.310" N	85° 45' 9.670" E		
			24° 21' 24.738" N	85° 45' 9.559" E		
			24° 21' 22.884" N	85° 45' 11.805" E		
29	Keso 08	391	24° 21' 19.711" N	85° 45' 14.962" E	MARKACHO	NAGIRTO
		1	24° 21' 22.605" N	85° 45' 12.521" E	JAINAGAR	BADULIA
		286	24° 21' 21.770" N	85° 45' 14.666" E	JAINAGAR	BADULIA
		925	24° 21' 21.113" N	85° 45' 16.353" E	JAINAGAR	BADULIA
		916	24° 21' 20.999" N	85° 45' 16.245" E	JAINAGAR	BADULIA
			24° 21' 20.489" N	85° 45' 15.799" E		
			24° 21' 19.804" N	85° 45' 15.285" E		
30	Keso 09	391	24° 21' 17.582" N	85° 45' 27.978" E	MARKACHO	NAGIRTO
		1	24° 21' 17.433" N	85° 45' 25.765" E	JAINAGAR	BADULIA
		286	24° 21' 17.547" N	85° 45' 24.058" E	JAINAGAR	BADULIA
		925	24° 21' 17.668" N	85° 45' 22.138" E	JAINAGAR	BADULIA
		916	24° 21' 17.815" N	85° 45' 21.138" E	JAINAGAR	BADULIA
			24° 21' 18.920" N	85° 45' 19.444" E		
			24° 21' 19.012" N	85° 45' 19.390" E		
			24° 21' 20.596" N	85° 45' 18.231" E		
			24° 21' 20.634" N	85° 45' 18.224" E		
			24° 21' 19.731" N	85° 45' 22.753" E		
			24° 21' 19.615" N	85° 45' 23.259" E		
			24° 21' 19.360" N	85° 45' 23.990" E		
			24° 21' 18.408" N	85° 45' 26.550" E		
31	Keso 10	1	24° 21' 10.354" N	85° 45' 30.228" E	JAINAGAR	BADULIA
		286	24° 21' 9.582" N	85° 45' 30.276" E	JAINAGAR	BADULIA
		925	24° 21' 11.040" N	85° 45' 28.396" E	JAINAGAR	BADULIA
		916	24° 21' 12.034" N	85° 45' 28.581" E	JAINAGAR	BADULIA
			24° 21' 14.564" N	85° 45' 28.661" E		
			24° 21' 13.998" N	85° 45' 29.056" E		
			24° 21' 12.509" N	85° 45' 29.697" E		
			24° 21' 10.354" N	85° 45' 30.228" E		
32	Keso 11	1	24° 21' 9.582" N	85° 45' 30.276" E	JAINAGAR	BADULIA
		286	24° 21' 9.086" N	85° 45' 30.307" E	JAINAGAR	BADULIA
		925	24° 21' 7.379" N	85° 45' 30.313" E	JAINAGAR	BADULIA
		916	24° 21' 6.677" N	85° 45' 30.023" E	JAINAGAR	BADULIA
		289	24° 21' 6.095" N	85° 45' 29.238" E	MARKACHO	CHOPNADIH
			24° 21' 5.330" N	85° 45' 27.784" E		
			24° 21' 4.828" N	85° 45' 26.871" E		
			24° 21' 5.781" N	85° 45' 27.313" E		
			24° 21' 6.963" N	85° 45' 27.639" E		
			24° 21' 11.040" N	85° 45' 28.396" E		



33	Keso 12	1	24° 20' 43.634" N	85° 45' 20.080" E	JAINAGAR	BADULIA
		286	24° 20' 42.058" N	85° 45' 19.580" E	JAINAGAR	BADULIA
		925	24° 20' 42.404" N	85° 45' 19.417" E	JAINAGAR	BADULIA
		916	24° 20' 42.494" N	85° 45' 19.399" E	JAINAGAR	BADULIA
		289	24° 20' 43.295" N	85° 45' 19.394" E	MARKACHO	CHOPNADIH
		1	24° 20' 44.258" N	85° 45' 19.410" E	MARKACHO	BELADIH
		904	24° 20' 45.221" N	85° 45' 19.620" E	MARKACHO	BELADIH
			24° 20' 46.309" N	85° 45' 19.392" E		
			24° 20' 47.986" N	85° 45' 19.099" E		
			24° 20' 48.091" N	85° 45' 19.134" E		
			24° 20' 49.878" N	85° 45' 19.430" E		
			24° 20' 53.093" N	85° 45' 21.059" E		
			24° 20' 56.657" N	85° 45' 23.709" E		
			24° 20' 57.735" N	85° 45' 24.508" E		
			24° 21' 0.144" N	85° 45' 24.876" E		
			24° 21' 1.662" N	85° 45' 25.623" E		
			24° 21' 2.885" N	85° 45' 27.295" E		
			24° 21' 3.339" N	85° 45' 28.818" E		
			24° 21' 2.034" N	85° 45' 28.046" E		
			24° 20' 59.104" N	85° 45' 26.967" E		
			24° 20' 56.226" N	85° 45' 25.579" E		
			24° 20' 53.005" N	85° 45' 23.643" E		
			24° 20' 50.230" N	85° 45' 22.461" E		
			24° 20' 47.369" N	85° 45' 21.502" E		
34	Keso 13	1	24° 20' 29.115" N	85° 45' 16.453" E	JAINAGAR	BADULIA
		286	24° 20' 28.838" N	85° 45' 16.511" E	JAINAGAR	BADULIA
		925	24° 20' 29.135" N	85° 45' 16.229" E	JAINAGAR	BADULIA
		916	24° 20' 30.009" N	85° 45' 15.527" E	JAINAGAR	BADULIA
		1	24° 20' 31.893" N	85° 45' 14.876" E	MARKACHO	BELADIH
		904	24° 20' 34.378" N	85° 45' 14.122" E	MARKACHO	BELADIH
			24° 20' 37.873" N	85° 45' 14.499" E		
			24° 20' 40.340" N	85° 45' 15.355" E		
			24° 20' 43.029" N	85° 45' 16.109" E		
			24° 20' 45.759" N	85° 45' 17.137" E		
			24° 20' 44.173" N	85° 45' 17.488" E		
			24° 20' 42.924" N	85° 45' 17.306" E		
			24° 20' 42.009" N	85° 45' 16.672" E		
			24° 20' 40.935" N	85° 45' 16.316" E		
			24° 20' 39.983" N	85° 45' 16.342" E		
			24° 20' 38.598" N	85° 45' 16.289" E		
			24° 20' 37.343" N	85° 45' 16.900" E		
			24° 20' 36.311" N	85° 45' 16.726" E		
			24° 20' 35.207" N	85° 45' 16.267" E		
			24° 20' 33.798" N	85° 45' 15.644" E		
			24° 20' 32.250" N	85° 45' 15.398" E		
			24° 20' 30.440" N	85° 45' 16.053" E		

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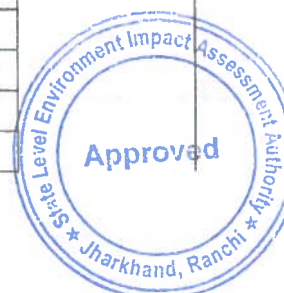
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Handwritten letter 'R'

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35	Keso 14	826	24° 19' 15.413" N	85° 45' 58.029" E	JAINAGAR	AMBADIH
		2523	24° 19' 15.104" N	85° 45' 58.219" E	MARKACHO	DASARO KHURD
		4402	24° 19' 14.799" N	85° 45' 58.416" E	MARKACHO	DASARO KHURD
			24° 19' 14.498" N	85° 45' 58.620" E		
			24° 19' 14.201" N	85° 45' 58.832" E		
			24° 19' 13.908" N	85° 45' 59.050" E		
			24° 19' 13.620" N	85° 45' 59.275" E		
			24° 19' 13.336" N	85° 45' 59.508" E		
			24° 19' 13.057" N	85° 45' 59.747" E		
			24° 19' 12.816" N	85° 45' 59.963" E		
			24° 19' 12.525" N	85° 45' 59.278" E		
			24° 19' 12.594" N	85° 45' 57.154" E		
			24° 19' 12.238" N	85° 45' 55.513" E		
			24° 19' 11.271" N	85° 45' 52.922" E		
			24° 19' 9.236" N	85° 45' 50.517" E		
			24° 19' 8.270" N	85° 45' 49.304" E		
			24° 19' 7.489" N	85° 45' 47.371" E		
			24° 19' 6.728" N	85° 45' 45.747" E		
			24° 19' 5.371" N	85° 45' 44.452" E		
			24° 19' 4.811" N	85° 45' 44.196" E		
			24° 19' 6.305" N	85° 45' 44.102" E		
			24° 19' 7.666" N	85° 45' 44.193" E		
			24° 19' 9.245" N	85° 45' 44.847" E		
			24° 19' 10.729" N	85° 45' 45.941" E		
			24° 19' 12.404" N	85° 45' 47.650" E		
			24° 19' 13.537" N	85° 45' 49.310" E		
			24° 19' 14.611" N	85° 45' 50.393" E		
			24° 19' 15.508" N	85° 45' 51.104" E		
			24° 19' 15.639" N	85° 45' 51.315" E		
			24° 19' 15.818" N	85° 45' 51.981" E		
			24° 19' 15.549" N	85° 45' 53.337" E		
			24° 19' 15.552" N	85° 45' 54.269" E		
			24° 19' 15.320" N	85° 45' 55.241" E		
			24° 19' 15.504" N	85° 45' 56.315" E		
			24° 19' 15.888" N	85° 45' 56.861" E		
			24° 19' 15.848" N	85° 45' 57.779" E		
			24° 19' 15.725" N	85° 45' 57.847" E		
36	Keso 15	826	24° 18' 58.136" N	85° 45' 38.930" E	JAINAGAR	AMBADIH
		2523	24° 18' 57.626" N	85° 45' 38.376" E	MARKACHO	DASARO KHURD
		4402	24° 18' 57.696" N	85° 45' 38.262" E	MARKACHO	DASARO KHURD
			24° 18' 58.318" N	85° 45' 38.535" E		
			24° 19' 1.796" N	85° 45' 38.432" E		
			24° 19' 3.218" N	85° 45' 38.449" E		
			24° 19' 5.016" N	85° 45' 39.512" E		
			24° 19' 6.935" N	85° 45' 40.317" E		
			24° 19' 8.854" N	85° 45' 41.602" E		

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			24° 19' 10.704" N	85° 45' 43.520" E		
			24° 19' 12.029" N	85° 45' 46.112" E		
			24° 19' 11.587" N	85° 45' 45.734" E		
			24° 19' 10.735" N	85° 45' 44.694" E		
			24° 19' 8.405" N	85° 45' 43.674" E		
			24° 19' 7.723" N	85° 45' 43.272" E		
			24° 19' 6.734" N	85° 45' 43.290" E		
			24° 19' 5.136" N	85° 45' 43.385" E		
			24° 19' 4.007" N	85° 45' 43.178" E		
			24° 19' 3.970" N	85° 45' 43.112" E		
			24° 19' 2.902" N	85° 45' 42.805" E		
			24° 19' 2.003" N	85° 45' 42.344" E		
			24° 19' 1.464" N	85° 45' 41.816" E		
			24° 19' 0.764" N	85° 45' 41.288" E		
			24° 18' 59.817" N	85° 45' 40.656" E		
			24° 18' 59.137" N	85° 45' 40.202" E		
			24° 18' 58.675" N	85° 45' 39.605" E		
37	Keso 16	2523	24° 18' 51.217" N	85° 45' 38.163" E	MARKACHO	DASARO KHURD
		4402	24° 18' 51.124" N	85° 45' 37.893" E	MARKACHO	DASARO KHURD
			24° 18' 51.712" N	85° 45' 38.126" E		
			24° 18' 52.765" N	85° 45' 38.466" E		
			24° 18' 54.363" N	85° 45' 38.548" E		
			24° 18' 56.154" N	85° 45' 38.729" E		
			24° 18' 57.231" N	85° 45' 39.015" E		
			24° 18' 57.876" N	85° 45' 39.352" E		
			24° 18' 58.296" N	85° 45' 40.476" E		
			24° 18' 57.400" N	85° 45' 40.593" E		
			24° 18' 56.819" N	85° 45' 40.525" E		
			24° 18' 55.092" N	85° 45' 40.402" E		
			24° 18' 52.974" N	85° 45' 40.340" E		
			24° 18' 51.726" N	85° 45' 39.988" E		
			24° 18' 51.644" N	85° 45' 39.638" E		
			24° 18' 51.548" N	85° 45' 39.266" E		
			24° 18' 51.445" N	85° 45' 38.895" E		
			24° 18' 51.335" N	85° 45' 38.528" E		
38	Sakri 01	441	24°46'46.06"N	85°44'32.03"E	SATGAWAN	BHADALI
		64	24°46'41.81"N	85°44'26.53"E	SATGAWAN	GHORDOUR
		1	24°46'54.17"N	85°44'13.39"E	SATGAWAN	GHORSIMAR
		96	24°47'3.55"N	85°44'0.24"E	SATGAWAN	GHORSIMAR
		99	24°47'5.40"N	85°43'49.97"E	SATGAWAN	GHORSIMAR
		815	24°47'4.71"N	85°43'34.25"E	SATGAWAN	KANIKEND
		814	24°47'3.45"N	85°43'25.90"E	SATGAWAN	KANIKEND
		1	24°47'1.44"N	85°43'16.96"E	SATGAWAN	MADWA
		211	24°46'59.25"N	85°43'3.82"E	SATGAWAN	MISRI CHAK
		2	24°46'58.25"N	85°42'58.46"E	SATGAWAN	SIBRAMPUR



[Handwritten signatures and initials]

		1	24°47'2.96"N	85°43'8.23"E	SATGAWAN	SIBRAMPUR
			24°47'7.14"N	85°43'18.26"E		
			24°47'8.54"N	85°43'20.47"E		
			24°47'9.60"N	85°43'20.93"E		
			24°47'10.41"N	85°43'23.48"E		
			24°47'12.36"N	85°43'27.54"E		
			24°47'12.42"N	85°43'33.42"E		
			24°47'11.15"N	85°43'37.57"E		
			24°47'10.67"N	85°43'42.10"E		
			24°47'11.49"N	85°43'52.03"E		
			24°47'12.34"N	85°43'55.84"E		
			24°47'12.23"N	85°44'1.46"E		
			24°47'8.43"N	85°44'12.82"E		
			24°47'5.79"N	85°44'15.84"E		
39	Sakri 02	64	24°47'3.40"N	85°44'30.25"E	SATGAWAN	GHORDOUR
		397	24°47'1.37"N	85°44'34.24"E	SATGAWAN	DANTI
			24°46'52.00"N	85°44'41.56"E		
			24°46'51.09"N	85°44'41.50"E		
			24°46'49.58"N	85°44'36.98"E		
			24°46'51.23"N	85°44'35.07"E		
			24°46'57.02"N	85°44'31.10"E		
40	Sakri 03	1278	24°45'48.71"N	85°45'12.99"E	SATGAWAN	BAJANIA
		1	24°45'54.32"N	85°45'21.24"E	SATGAWAN	KHAIRA
		545	24°45'53.42"N	85°45'35.62"E	SATGAWAN	PAHAR SINGH
		637	24°45'52.01"N	85°45'42.47"E	SATGAWAN	MATHA
		1	24°45'49.00"N	85°45'47.61"E	SATGAWAN	KHAIRA
		1069	24°45'43.57"N	85°45'51.80"E	SATGAWAN	SARBAHANA
		1	24°45'27.83"N	85°46'21.53"E	SATGAWAN	SHEOPUR
		435	24°45'28.04"N	85°46'12.17"E	SATGAWAN	SHEOPUR
		350	24°45'35.65"N	85°45'51.13"E	SATGAWAN	SIHSA
		351	24°45'39.29"N	85°45'32.25"E	SATGAWAN	SIHSA
			24°45'40.32"N	85°45'26.66"E		RAJOUR
			24°45'42.26"N	85°45'20.90"E		RAJOUR
			24°45'47.24"N	85°45'15.52"E		
41	Sakri 04	637	24° 45' 30.265" N	85° 46' 51.679" E	SATGAWAN	SARBAHANA
		107	24° 45' 24.670" N	85° 46' 50.853" E	SATGAWAN	DHARAMPUR
		364	24° 45' 24.740" N	85° 46' 47.997" E	SATGAWAN	DHARAMPUR
		1138	24° 45' 25.973" N	85° 46' 42.991" E	SATGAWAN	MDDHOPUR
			24° 45' 28.258" N	85° 46' 36.172" E		
			24° 45' 30.557" N	85° 46' 27.028" E		
			24° 45' 32.459" N	85° 46' 20.784" E		
			24° 45' 34.048" N	85° 46' 16.551" E		
			24° 45' 35.195" N	85° 46' 15.046" E		
			24° 45' 39.274" N	85° 46' 14.017" E		
			24° 45' 42.657" N	85° 46' 12.623" E		
			24° 45' 45.533" N	85° 46' 10.275" E		

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			24° 45' 42.841" N	85° 46' 20.685" E		
			24° 45' 40.907" N	85° 46' 28.168" E		
			24° 45' 39.776" N	85° 46' 32.656" E		
			24° 45' 37.651" N	85° 46' 37.093" E		
			24° 45' 31.957" N	85° 46' 52.030" E		
			24° 45' 31.955" N	85° 46' 52.030" E		
			24° 45' 31.610" N	85° 46' 51.941" E		
			24° 45' 31.263" N	85° 46' 51.861" E		
			24° 45' 30.914" N	85° 46' 51.790" E		
			24° 45' 30.590" N	85° 46' 51.731" E		
42	Sakri 05	2033	24° 44' 48.843" N	85° 47' 48.815" E	SATGAWAN	MARCHOI
		2033	24° 44' 46.706" N	85° 47' 48.003" E	SATGAWAN	MARCHOI
		1	24° 44' 47.965" N	85° 47' 47.484" E	SATGAWAN	NARAIIDH
		1045	24° 44' 53.105" N	85° 47' 45.017" E	SATGAWAN	NARAIIDH
			24° 44' 55.522" N	85° 47' 40.798" E		
			24° 44' 57.254" N	85° 47' 37.883" E		
			24° 44' 57.857" N	85° 47' 36.868" E		
			24° 45' 0.780" N	85° 47' 33.162" E		
			24° 45' 5.645" N	85° 47' 30.421" E		
			24° 45' 9.414" N	85° 47' 26.103" E		
			24° 45' 10.814" N	85° 47' 24.275" E		
			24° 45' 10.933" N	85° 47' 24.324" E		
			24° 45' 11.268" N	85° 47' 24.453" E		
			24° 45' 11.605" N	85° 47' 24.573" E		
			24° 45' 11.944" N	85° 47' 24.686" E		
			24° 45' 12.285" N	85° 47' 24.791" E		
			24° 45' 12.629" N	85° 47' 24.887" E		
			24° 45' 12.974" N	85° 47' 24.975" E		
			24° 45' 13.321" N	85° 47' 25.055" E		
			24° 45' 13.669" N	85° 47' 25.127" E		
			24° 45' 13.993" N	85° 47' 25.186" E		
			24° 45' 14.319" N	85° 47' 25.237" E		
			24° 45' 16.566" N	85° 47' 25.569" E		
			24° 45' 16.948" N	85° 47' 28.443" E		
			24° 45' 16.130" N	85° 47' 33.259" E		
			24° 45' 14.147" N	85° 47' 39.030" E		
			24° 45' 7.960" N	85° 47' 46.782" E		
			24° 45' 7.328" N	85° 47' 47.245" E		
			24° 45' 5.663" N	85° 47' 47.986" E		
			24° 45' 3.414" N	85° 47' 48.612" E		
			24° 45' 0.472" N	85° 47' 48.714" E		
			24° 45' 0.095" N	85° 47' 48.714" E		
			24° 45' 0.073" N	85° 47' 48.728" E		
			24° 44' 58.276" N	85° 47' 48.790" E		
			24° 44' 53.029" N	85° 47' 49.079" E		

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अतः आपके सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।



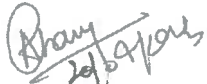
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- नोट:- 1. माननीय सर्वोच्च न्यायालय के विभिन्न वादों में पारित न्यायादेश में आदेशित किया गया है कि Protected Area और उसके संरक्षित ESZ एवं Protected Area से 01 कि०मी० की दूरी जो भी अधिकतम हो के अन्तर्गत किसी भी प्रकार का खनन गतिविधि वर्जित है।
2. कोडरमा वन्यप्राणी आश्रयणी एवं ESZ के अन्तर्गत अवस्थित गाँवों में सुनिश्चित किया जाय कि उक्त क्षेत्रों में किसी भी प्रकार की खनन गतिविधि वर्जित है।
3. इसमें किसी प्रकार का टंकणीय भूल होती है, तो उसका सुधार अपेक्षित होगा।

विश्वासभाजन


वन प्रमण्डल पदाधिकारी,
वन्यप्राणी प्रमण्डल, हजारीबाग



ANNEXURE- G
(Advertisement Copy/ Public Domain)

**झारखण्ड सरकार
खान एवं भूतत्व विभाग भूतत्व निदेशालय, धुर्वा, राँची**

आम सूचना

एतद् द्वारा सर्वसाधारण / Stake Holder को सूचित किया जाता है कि झारखण्ड राज्य के सभी जिलों का बालू खनिज के लिये District Survey Report (जिला सर्वे रिपोर्ट) का प्रारूप संबंधित जिलों के NIC के पोर्टल पर प्रकाशित किया गया है।

सभी जन सामान्य / Stake Holder को अनुरोध किया जाता है कि उक्त प्रकाशित DSR में कोई आपत्ति या सुझाव यदि हो, तो संबंधित जिला के उपायुक्त को सूचित कर सकते हैं।

ह0/-

निदेशक, भूतत्व झारखण्ड, राँची

PR 289102 (Mines and Geology)22-23-D



District Mining Office, Koderma

Subject: Regarding Public consultation for District Survey Report of District Koderma , Jharkhand .

District Mining Office, Koderma has placed the District Survey Report (DSR) in the public domain (www.koderma.nic.in) for One Month for obtaining comments of the general public.

As of date the Department has not been in receipt of any comments from the general Public.

Arora
27.4.23
District Mining Officer
Koderma



ANNEXURE- H

(Annexure as prescribed in the EMGSM, 2020)

Annexure-I

Details of Sand/M-Sand Sources

a) Rivers:

River Plant	Name/M-Sand	Total Stretch of River (in KM)	Type of River (Perennial or Non-Perennial)
	Barakar	72.85	-
	Dudhi	-	-
	Akto	-	-
	Keso	-	-
	Dhanarjay	-	-
	Sakri	26.03	-

b) De-Siltation Location: (Lakes/Ponds/Dams etc.)

Name of Reservoir/Dams	Maintain/Controlled by State Govt./PSU etc.	Location	District	Tehsil	Village	Size(Ha)
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

c) Patta Lands/Khatedari Land:

Owner	Sy. No	Area (Ha)	District	Tehsil	Village	Agricultural Land (Yes/No)
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

d) M-Sand Plants:

Plant name	Owner	District	Tehsil	Village	Geo-location	Quantity (Tonnes)
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Note: For inclusion of M-Sand Plant/Patta Land in DSR the plant/landowners need to submit the request to the Mining Department with complete details. Inclusion in DSR does not give them the right to operate the M-Sand Plant/Sand Mining lease.



List of Potential Mining Leases (existing & proposed)

Rivers

SL NO.	Sandbars Code	Lease Details	Ha.	Distance in Km from PA/BR/WC	Distance from forest Area (in Km)	Mining Lease within 500 meters (if Yes Cluster Area)	Total excavation in Tonnes (Bulk Density 1.55, Depth: 1 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020)	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing/ Proposed
1	PO_KD_CD_DD_01	Dudhi 01	0.38	-	More than 250 m	Yes, Area: 0.81 Ha.	5890	3534	Sand	Proposed
2	PO_KD_CD_DD_02	Dudhi 02	0.09	-	More than 250 m		1395	837	Sand	Proposed
3	PO_KD_CD_DD_03	Dudhi 03	0.16	-	More than 250 m		2480	1488	Sand	Proposed
4	PO_KD_CD_DD_06	Dudhi 04	0.18	-	More than 250 m		2790	1674	Sand	Proposed
5	PO_KD_CD_DD_10	Dudhi 05	0.08	-	More than 250 m	Yes, Area: 0.73 Ha.	1240	744	Sand	Proposed
6	PO_KD_CD_DD_11	Dudhi 06	0.65	-	More than 250 m		10075	6045	Sand	Proposed

SL NO.	Sandbars Code	Lease Details	Ha.	Distance in Km from PA/BR/WC	Distance from forest Area (in Km)	Mining Lease within 500 meters (if Yes Cluster Area)	Total excavation in Tonnes (Bulk Density : 1.57, Depth: 1 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020)	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Proposed
1	PO_KD_JN_AK_03	Akto 01	0.74	-	More than 250 m	Yes, Area: 1.37 Ha.	11618	6970.8	Sand	Proposed
2	PO_KD_JN_AK_04	Akto 02	0.63	-	More than 250 m		9891	5934.6	Sand	Proposed
3	PO_KD_JN_AK_05	Akto 03	3.82	-	More than 250 m	NO	59974	35984.4	Sand	Proposed
4	PO_KD_JN_AK_06	Akto 04	0.49	-	More than -	Yes, Area: 8.91Ha.	7693	4615.8	Sand	Proposed



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5	PO_KD_JN_AK_07	Akto 05	0.76	-	250 m				11932	7159.2	Sand	Proposed
6	PO_KD_JN_AK_08	Akto 06	0.94	-	More than 250 m				14758	8854.8	Sand	Proposed
7	PO_KD_JN_AK_09	Akto 07	2.86	-	More than 250 m				44902	26941.2	Sand	Proposed
8	PO_KD_JN_AK_10	Akto 08	1.69	-	More than 250 m				26533	15919.8	Sand	Proposed
9	PO_KD_JN_AK_11	Akto 09	2.17	-	More than 250 m				34069	20441.4	Sand	Proposed

SL NO	Sandbars Code	Lease Details	H.a.	Distance in Km from PA/BR/WC	Distance from forest Area (in Km)	Mining Lease within 500 meters (if Yes Cluster Area)	Total excavation in Tonnes (Bulk Density: 1.57, Depth:2 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020)	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Proposed
1	PO_KD_DC_KS_01	Keso 01	0.89	-	More than 250 m	Yes, Area:4.6 Ha.	27946	16767.6	Sand	Proposed
2	PO_KD_DC_KS_02	Keso 02	1.56	-	More than 250 m		48984	29390.4	Sand	Proposed
3	PO_KD_JN_KS_03	Keso 03	2.15	-	More than 250 m		67510	40506	Sand	Proposed
4	PO_KD_JN_KS_04	Keso 04	2.36	-	More than 250 m	Yes,Area:16.44 Ha.	74104	44462.4	Sand	Proposed
5	PO_KD_JN_KS_05	Keso 05	3.18	-	More than 250 m		99852	59911.2	Sand	Proposed
6	PO_KD_JN_KS_06	Keso 06	1.91	-	More than 250 m		59974	35984.4	Sand	Proposed
7	PO_KD_JN_KS_07	Keso 07	0.6	-	More than 250 m		18840	11304	Sand	Proposed
8	PO_KD_JN_KS_08	Keso 08	0.33	-	More than 250 m		10362	6217.2	Sand	Proposed
9	PO_KD_MC_KS_09	Keso 09	1.24	-	More than 250 m		38936	23361.6	Sand	Proposed
10	PO_KD_MC_KS_10	Keso 10	0.39	-	More than 250 m		12246	7347.6	Sand	Proposed
11	PO_KD_MC_KS_11	Keso 11	0.95	-	More than 250 m	Yes, Area: 9.56 Ha.	29830	17898	Sand	Proposed
12	PO_KD_JN_KS_12	Keso 12	3.74	-	More than 250 m		117436	70461.6	Sand	Proposed
13	PO_KD_JN_KS_13	Keso 13	1.74	-	More than 250 m		54636	32781.6	Sand	Proposed
14	PO_KD_JN_KS_17	Keso 14	5.35	-	More than 250 m		167990	100794	Sand	Proposed
15	PO_KD_JN_KS_18	Keso 15	3.21	-	More than 250 m		100794	60476.4	Sand	Proposed
16	PO_KD_JN_KS_19	Keso 16	1	-	More than 250 m		31400	18840	Sand	Proposed

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SL NO.	Sandbars Code	Lease Details	Ha.	Distance in Km from PA/BR/WC	Distance from forest Area (in Km)	Mining Lease within 500 meters (if Yes Cluster Area)	Total excavation in Tonnes (Bulk Density: 1.55, Depth: 1 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020)	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Proposed
1	PO_KD_KD_DJ_01	Dhanarjay 01	0.79	Within the Koderma WLS	Less than 250 m	NO	12245	7347	Sand	Proposed
2	PO_KD_KD_DJ_05	Dhanarjay 02	0.42	Within the Koderma WLS	Less than 250 m	Yes, Area: 2.11	6510	3906	Sand	Proposed
3	PO_KD_KD_DJ_06	Dhanarjay 03	1.2	Within the Koderma WLS	Less than 250 m		18600	11160	Sand	Proposed
4	PO_KD_KD_DJ_07	Dhanarjay 04	0.49	Within the Koderma WLS	Less than 250 m		7595	4557	Sand	Proposed
7	PO_KD_KD_DJ_11	Dhanarjay 05	0.85	Within the Koderma WLS	Less than 250 m	Yes, Area: 1.45	13175	7905	Sand	Proposed
8	PO_KD_KD_DJ_12	Dhanarjay 06	0.6	Within the Koderma WLS	Less than 250 m		9300	5580	Sand	Proposed

SL NO.	Sandbars Code	Lease Details	Ha.	Distance in Km from PA/BR/WC	Distance from forest Area (in Km)	Mining Lease within 500 meters (if Yes Cluster Area)	Total excavation in Tonnes (Bulk Density: 1.55, Depth: 2 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020)	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Proposed
1	PO_KD_SG_SK_01	Sakri 01	60.8	-	Less than 250 m	Yes, Area: 66.9	1216000	1884800	1130880	471
2	PO_KD_SG_SK_02	Sakri 02	6.1	-	Less than 250 m		122000	189100	113460	47
3	PO_KD_SG_SK_03	Sakri 03	53	-	Less than 250 m	Yes, Area: 85.2	1060000	1643000	985800	411
4	PO_KD_SG_SK_04	Sakri 04	32.2	-	Less than 250 m		644000	998200	598920	250
5	PO_KD_SG_SK_05	Sakri 05	30.2	-	Less than 250 m	NO	604000	936200	561720	234



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Enforcement & Monitoring Guidelines for Sand Mining

Patta Lands/Khatedari Land: (existing & proposed)

Owner	Sy.No	Area (Ha.)	District	Tehsil	Village	Total Reserve (MT) Considering	Total Mineral to be mined (MT)	Existing /Proposed
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

De-Siltation Location: (Lakes/Ponds/Dams etc.) (Existing & proposed)

Name of Reservoir /Dams	Maintain /Controlled by State Govt./PSU etc.	Location	District	Tehsil	Village	Size (Ha)	Quantity MT /Year	Existing /Proposed
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M-Sand Plants :(existing & proposed)

Plant name	Owner	District	Tehsil	Village	Geo-location	Quantity (Tonnes/Annum)	Existing/ Proposed
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available



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Annexure-III

Cluster & Contiguous Cluster Details

Clusters:

River Name	Cluster No.	Lease No	Location (Riverbed Patta Land)	Village	Area (in Ha.)	Total Excavation (Ton)	Total Mineral Excavation (Ton) (Considering 60% as per EMGSM, 2020)
Dudhi	1	Dudhi 1-4	Riverbed	Jamkhati, Konko & Pokdanda	0.81	12555	7,533
	2	Dudhi 5-6	Riverbed	Garaindih & Majhgaon	0.73	11315	6789
Akto	3	Akto 01-02	Riverbed	Gopaldoh, Kakarcholi & Santh	1.37	21509	12,905.4
	4	Akto 04-09	Riverbed	Behradih, Jogiatila, Mandaria, & Tilokri	8.91	139887	83,932.2
Keso	5	Keso 01-03	Riverbed	Birajpur, Nimadih, Bansdih, Arwatanr & Ghutia	4.6	144440	86664
	6	Keso 4-13	Riverbed	Bansdih, Chandra, Nagirto, Badulia, Chopnadih & Beladih	16.44	516216	3,09,729.6
	7	Keso 14-16	Riverbed	Ambadih & Dasro Khurd	9.56	300184	180110.4
Djanarjay	8	Dhanarjay 02-04	Riverbed	Bishunitikar	2.11	32705	19,623
	9	Dhanarjay 05-06	Riverbed	Bishunitikar & Karharia	1.45	22475	13485
Sakri	10	Sakri 01-02	Riverbed	Bhadali, Ghordour, Ghorsimar, Kanikend, Madwa. Misri Chak, Sibrampur & Danti	66.9	2073900	12,44,340
	11	Sakri 03-04	Riverbed	Bajania, Khaira Pahar, Matha Khaira, Sarbahana, Sheopur, Sihsa, Rajour, Dharampur & Madhopur	85.2	2641200	15,84,720



Contiguous Clusters:

River Name	Contiguous Cluster No.	Cluster No	Number of leases in the cluster	Location (Riverbed / Patta Land)	Distance between clusters	Village	Area Of Cluster (Ha)	Total Mineral Excavation (Ton)
Dudhi	NA	NA	NA	NA	NA	NA	NA	NA
Akto	NA	NA	NA	NA	NA	NA	NA	NA
Keso	NA	NA	NA	NA	NA	NA	NA	NA
Dhanarjay	NA	NA	NA	NA	NA	NA	NA	NA
Sakri	NA	NA	NA	NA	NA	NA	NA	NA



Annexure-IV

Transportation Routes for individual leases and leases in Cluster

Lease No	Transportation Route No	Number of tipper s /day of lease	Number of tipper s /day of all the lease on route	Length of Route in KM	Type of Road (Black Topped/ Unpaved)	Recommendation for road (Black Topped/ unpaved)	The road will be Constructed by Govt/ Lease Owner	Route Map & Location
Dudhi River								
Dudhi 01	Roads towards Jamkatti & Kanko	1	NA	0.22	Unpaved	Unpaved	Lease Owner	Route Map attached
Dudhi 02	Roads towards Jamkatti & Kanko	1	NA	0.24	Unpaved	Unpaved	Lease Owner	Route Map attached
Dudhi 03	Roads towards Jamkatti & Kanko	1	NA	0.20	Unpaved	Unpaved	Lease Owner	Route Map attached
Dudhi 04	Roads towards Jamkatti & Kanko	1	NA	0.24	Unpaved	Unpaved	Lease Owner	Route Map attached
Dudhi 05	Roads towards Samara & Gawanpur	1	NA	0.29	Unpaved	Unpaved	Lease Owner	Route Map attached
Dudhi 06	Roads towards Samara & Gawanpur	3	NA	0.24	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto River								
Akto 01	Roads towards Urwan & Kanko	3	NA	0.09	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 02	Roads towards Urwan & Kanko	2	NA	1.17	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 03	Roads towards Urwan & Kanko	15	NA	0.59	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 04	Roads towards Urwan & Kanko	2	NA	1.91	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 05	Roads towards	3	NA	0.18	Unpaved	Unpaved	Lease Owner	Route



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	Urwan & Kanko							Map attached
Akto 06	Roads towards Urwan & Kanko	4	NA	0.24	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 07	Roads towards Urwan & Kanko	11	NA	0.14	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 08	Roads towards Urwan & Kanko	7	NA	0.29	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 09	Roads towards Urwan & Kanko	9	NA	0.41	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso River								
Keso 01	Roads towards Pantisala & Birajpur	7	NA	0.30	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 02	Roads towards Pantisala & Birajpur	12	NA	0.33	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 03	Roads towards Pantisala & Birajpur	17	NA	0.21	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 04	Roads towards Matauni & Sonedih	19	NA	0.33	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 05	Roads towards Matauni & Sonedih	25	NA	0.35	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 06	Roads towards Matauni & Sonedih	15	NA	0.20	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 07	Roads towards Matauni & Sonedih	5	NA	0.12	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 08	Roads towards Matauni & Sonedih	3	NA	0.21	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 09	Roads towards Matauni & Sonedih	10	NA	0.29	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 10	Roads towards Matauni & Sonedih	3	NA	0.18	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 11	Roads towards Matauni & Sonedih	7	NA	0.17	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 12	Roads towards Matauni & Sonedih	29	NA	0.20	Unpaved	Unpaved	Lease Owner	Route Map attached



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Keso 13	Roads towards Matauni & Sonedih	14	NA	0.63	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 14	Roads towards Koderma & Jainagar	42	NA	0.24	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 15	Roads towards Koderma & Jainagar	25	NA	0.57	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 16	Roads towards Koderma & Jainagar	8	NA	0.18	Unpaved	Unpaved	Lease Owner	Route Map attached
Dhanarjay River								
Dhanarjay 01	Roads towards Ranchi & Patna	3	NA	0.29	Unpaved	Unpaved	Lease Owner	Route Map attached
Dhanarjay 02	Roads towards Ranchi & Patna	2	NA	0.12	Unpaved	Unpaved	Lease Owner	Route Map attached
Dhanarjay 03	Roads towards Ranchi & Patna	5	NA	0.57	Unpaved	Unpaved	Lease Owner	Route Map attached
Dhanarjay 04	Roads towards Ranchi & Patna	2	NA	0.25	Unpaved	Unpaved	Lease Owner	Route Map attached
Dhanarjay 05	Roads towards Ranchi & Patna	3	NA	0.44	Unpaved	Unpaved	Lease Owner	Route Map attached
Dhanarjay 06	Roads towards Ranchi & Patna	2	NA	0.31	Unpaved	Unpaved	Lease Owner	Route Map attached
Sakri River								
Sakri 01	Roads towards Gobindpur & Khaira Kalan	471	NA	1.88	Unpaved	Unpaved	Lease Owner	Route Map attached
Sakri 02	Roads towards Gobindpur & Khaira Kalan	47	NA	0.33	Unpaved	Unpaved	Lease Owner	Route Map attached
Sakri 03	Roads towards Khaira Kalan & Basodih	411	NA	0.14	Unpaved	Unpaved	Lease Owner	Route Map attached
Sakri 04	Roads towards Khaira Kalan & Basodih	249	NA	1.21	Unpaved	Unpaved	Lease Owner	Route Map attached
Sakri 05	Roads towards Khaira Kalan & Basodih	234	NA	1.35	Unpaved	Unpaved	Lease Owner	Route Map attached



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Enforcement & Monitoring Guidelines for Sand Mining

Cluster:

Cluster No	Transportation Route No	Number of tipper s /day of cluster	Number of tipper s /day of all the clusters on route	Length of Route in KM	Type of Road (Black Topped/ Unpaved)	Recommendation for road (Black Topped/ unpaved)	The road will be Constructed by Govt/Lease Owner	Route Map & Location
Dudhi 1-4	Roads towards Dumduma & Katia	4	NA	0.90	Unpaved	Unpaved	Lease Owner	Route Map attached
Dudhi 5-6	Roads towards Samara & Gawanpur	4	NA	0.53	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 01-02	Roads towards Urwan & Kanko	5	NA	1.26	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 4-9	Roads towards Urwan & Kanko, Roads towards Chhuthariktia & Tilkari	50	NA	3.17 & 1.11	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 01-03	Roads towards Pantisala & Birajpur	36	NA	0.84	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 4-13	Roads towards Koderma & Jainagar	129	NA	2.68	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 14-16	Roads towards Koderma & Jainagar	75	NA	0.99	Unpaved	Unpaved	Lease Owner	Route Map attached
Dhanarjay 02-04	Roads towards Ranchi & Patna	8	NA	1.53	Unpaved	Unpaved	Lease Owner	Route Map attached
Dhanarjay 07-08	Roads towards Ranchi & Patna	5	NA	0.75	Unpaved	Unpaved	Lease Owner	Route Map attached
Sakri 01-02	Roads towards Gobindpur & Khaira Kalan,	518	NA	2.21	Unpaved	Unpaved	Lease Owner	Route Map attached
Sakri 03-04	Roads towards Khaira Kalan & Basodih	660	NA	1.35	Unpaved	Unpaved	Lease Owner	Route Map attached



Final List of Potential Mining Leases (existing & proposed)

Rivers

SL NO.	Sandbars Code	Lease Details	Ha.	Distance in Km from PA/BR/WC	Distance from forest Area (in Km)	Mining Lease within 500 meters (if Yes Cluster Area)	Total excavation in Tonnes (Bulk Density 1.55, Depth: 1 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020)	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing/ Proposed
1	PO_KD_CD_DD_01	Dudhi 01	0.38	-	More than 250 m	Yes, Area:0.81 Ha.	5890	3534	Sand	Proposed
2	PO_KD_CD_DD_02	Dudhi 02	0.09	-	More than 250 m		1395	837	Sand	Proposed
3	PO_KD_CD_DD_03	Dudhi 03	0.16	-	More than 250 m		2480	1488	Sand	Proposed
4	PO_KD_CD_DD_06	Dudhi 04	0.18	-	More than 250 m		2790	1674	Sand	Proposed
5	PO_KD_CD_DD_10	Dudhi 05	0.08	-	More than 250 m	Yes, Area:0.73 Ha.	1240	744	Sand	Proposed
6	PO_KD_CD_DD_11	Dudhi 06	0.65	-	More than 250 m		10075	6045	Sand	Proposed

SL NO.	Sandbars Code	Lease Details	Ha.	Distance in Km from PA/BR/WC	Distance from forest Area (in Km)	Mining Lease within 500 meters (if Yes Cluster Area)	Total excavation in Tonnes (Bulk Density :1.57, Depth: 1 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020)	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Proposed
1	PO_KD_JN_AK_03	Akto 01	0.74	-	More than 250 m	Yes, Area:1.37 Ha.	11618	6970.8	Sand	Proposed
2	PO_KD_JN_AK_04	Akto 02	0.63	-	More than 250 m		9891	5934.6	Sand	Proposed
3	PO_KD_JN_AK_05	Akto 03	3.82	-	More than 250 m	NO	59974	35984.4	Sand	Proposed

Approved



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4	PO_KD_JN_AK_06	Akto 04	0.49	-	More than - 250 m	7693	4615.8	Sand	Proposed
5	PO_KD_JN_AK_07	Akto 05	0.76	-	More than 250 m	11932	7159.2	Sand	Proposed
6	PO_KD_JN_AK_08	Akto 06	0.94	-	More than 250 m	14758	8854.8	Sand	Proposed
7	PO_KD_JN_AK_09	Akto 07	2.86	-	More than 250 m	44902	26941.2	Sand	Proposed
8	PO_KD_JN_AK_10	Akto 08	1.69	-	More than 250 m	26533	15919.8	Sand	Proposed
9	PO_KD_JN_AK_11	Akto 09	2.17	-	More than 250 m	34069	20441.4	Sand	Proposed

Yes, Area: 8.91Ha.

SL NO.	Sandbars Code	Lease Details	Ha.	Distance in Km from PA/BR/WC	Distance from forest Area (in Km)	Mining Lease within 500 meters (if Yes Cluster Area)	Total excavation in Tonnes (Bulk Density: 1.57, Depth:2 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020)	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Proposed
1	PO_KD_DC_KS_01	Keso 01	0.89	-	More than 250 m	Yes, Area:4.6 Ha.	27946	16767.6	Sand	Proposed
2	PO_KD_DC_KS_02	Keso 02	1.56	-	More than 250 m		48984	29390.4	Sand	Proposed
3	PO_KD_JN_KS_03	Keso 03	2.15	-	More than 250 m		67510	40506	Sand	Proposed
4	PO_KD_JN_KS_04	Keso 04	2.36	-	More than 250 m		74104	44462.4	Sand	Proposed
5	PO_KD_JN_KS_05	Keso 05	3.18	-	More than 250 m		99852	59911.2	Sand	Proposed
6	PO_KD_JN_KS_06	Keso 06	1.91	-	More than 250 m		59974	35984.4	Sand	Proposed
7	PO_KD_JN_KS_07	Keso 07	0.6	-	More than 250 m		18840	11304	Sand	Proposed
8	PO_KD_JN_KS_08	Keso 08	0.33	-	More than 250 m	Yes, Area:16.44 Ha.	10362	6217.2	Sand	Proposed
9	PO_KD_MC_KS_09	Keso 09	1.24	-	More than 250 m		38936	23361.6	Sand	Proposed
10	PO_KD_MC_KS_10	Keso 10	0.39	-	More than 250 m		12246	7347.6	Sand	Proposed
11	PO_KD_MC_KS_11	Keso 11	0.95	-	More than 250 m		29830	17898	Sand	Proposed
12	PO_KD_JN_KS_12	Keso 12	3.74	-	More than 250 m		117436	70461.6	Sand	Proposed
13	PO_KD_JN_KS_13	Keso 13	1.74	-	More than 250 m		54636	32781.6	Sand	Proposed
14	PO_KD_JN_KS_17	Keso 14	5.35	-	More than 250 m		167990	100794	Sand	Proposed
15	PO_KD_JN_KS_18	Keso 15	3.21	-	More than 250 m	Yes, Area: 9.56 Ha.	100794	60476.4	Sand	Proposed
16	PO_KD_JN_KS_19	Keso 16	1	-	More than 250 m		31400	18840	Sand	Proposed



Patta Lands/Khatedari Land: (existing & proposed)

Owner	Sy.No	Area (Ha.)	District	Tehsil	Village	Total Reserve (MT) Considering	Total Mineral to be mined (MT)	Existing /Proposed
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

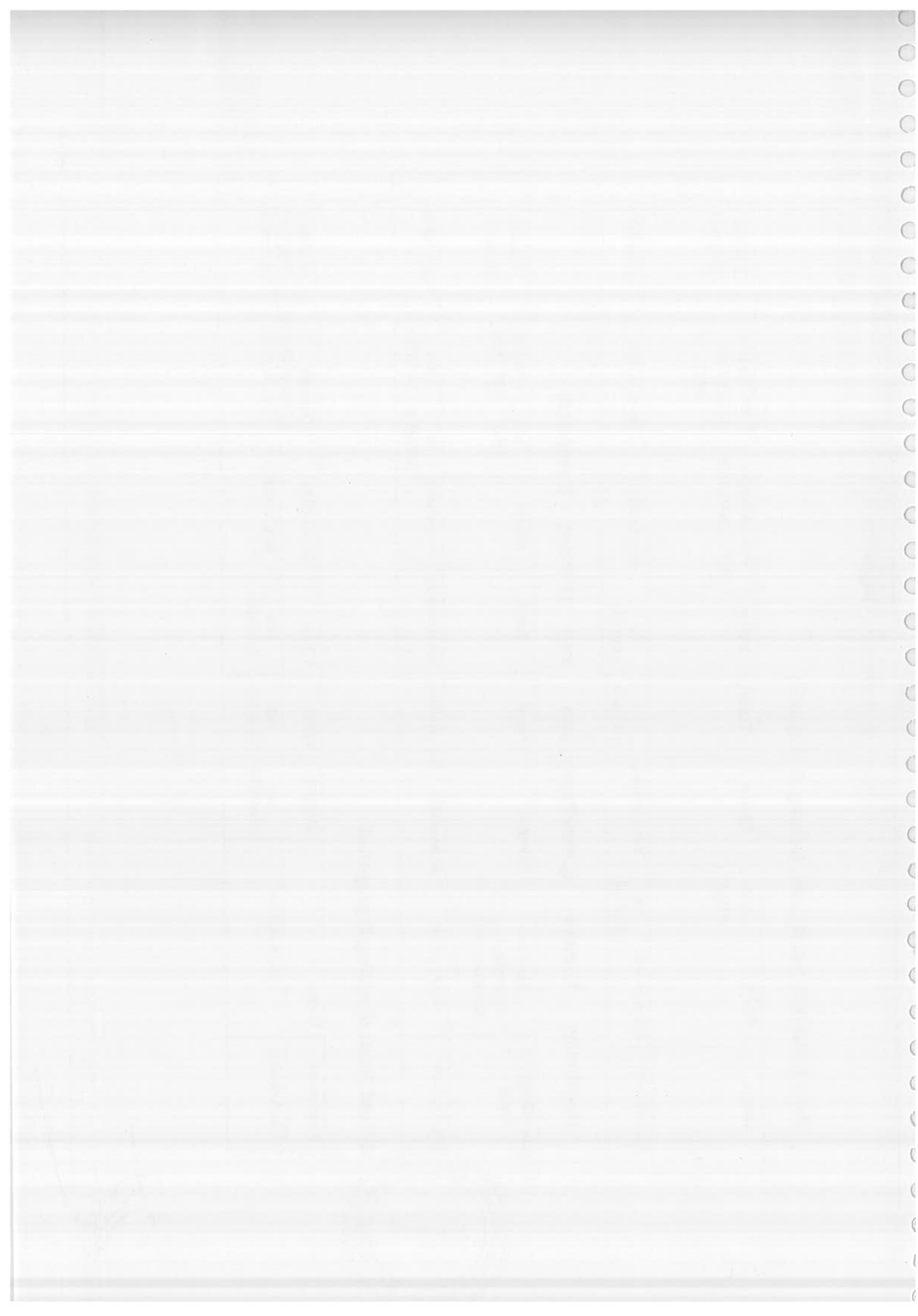
De-Siltation Location: (Lakes/Ponds/Dams etc.) (Existing & proposed)

Name of Reservoir /Dams	Maintain /Controlled by State Govt./PSU etc.	Location	District	Tehsil	Village	Size (Ha)	Quantity MT /Year	Existing /Proposed
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M-Sand Plants : (existing & proposed)

Plant name	Owner	District	Tehsil	Village	Geo-location	Quantity (Tonnes/Annum)	Existing/ Proposed
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available





Enforcement & Monitoring Guidelines for Sand Mining

Annexure-VI

Final Cluster & Contiguous Cluster details

Clusters:

River Name	Cluster No.	Lease No	Location (Riverbed Patta Land)	Village	Area (in Ha.)	Total Excavation (Ton)	Total Mineral Excavation (Ton) (Considering 60% as per EMGSM, 2020)
Dudhi	1	Dudhi 1-4	Riverbed	Jamkhathi, Konko & Pokdanda	0.81	12555	7,533
	2	Dudhi 5-6	Riverbed	Garaindih & Majhgaon	0.73	11315	6789
Akto	3	Akto 01-02	Riverbed	Gopaldoh, Kakarcholi & Santh	1.37	21509	12,905.4
	4	Akto 04-09	Riverbed	Behradih, Jogiatala, Mandaria, & Tilokri	8.91	139887	83,932.2
Keso	5	Keso 01-03	Riverbed	Birajpur, Nimadih, Bansdih, Arwatanr & Ghutia	4.6	144440	86664
	6	Keso 4-13	Riverbed	Bansdih, Chandra, Nagirto, Badulia, Chopnadih & Beladih	16.44	516216	3,09,729.6
	7	Keso 14-16	Riverbed	Ambadih & Dasro Khurd	9.56	300184	180110.4

Contiguous Clusters:

River Name	Contiguous Cluster No.	Cluster No	Number of leases in the cluster	Location (Riverbed / Patta Land)	Distance between clusters	Village	Area Of Cluster (Ha)	Total Mineral Excavation (Ton)
Barakar	NA	NA	NA	NA	NA	NA	NA	NA
Dudhi	NA	NA	NA	NA	NA	NA	NA	NA
Akto	NA	NA	NA	NA	NA	NA	NA	NA
Keso	NA	NA	NA	NA	NA	NA	NA	NA
Dhanarjay	NA	NA	NA	NA	NA	NA	NA	NA
Sakri	NA	NA	NA	NA	NA	NA	NA	NA



Annexure-VII

Final Transportation Routes for individual leases and leases in Cluster

Lease No	Transportation Route No	Number of tipper s /day of lease	Number of tipper s /day of all the lease on route	Length of Route in KM	Type of Road (Black Topped/ Unpaved)	Recommendation for road (Black Topped/ unpaved)	The road will be Constructed by Govt/ Lease Owner	Route Map & Location
Dudhi River								
Dudhi 01	Roads towards Jamkatti & Kanko	1	NA	0.22	Unpaved	Unpaved	Lease Owner	Route Map attached
Dudhi 02	Roads towards Jamkatti & Kanko	1	NA	0.24	Unpaved	Unpaved	Lease Owner	Route Map attached
Dudhi 03	Roads towards Jamkatti & Kanko	1	NA	0.20	Unpaved	Unpaved	Lease Owner	Route Map attached
Dudhi 04	Roads towards Jamkatti & Kanko	1	NA	0.24	Unpaved	Unpaved	Lease Owner	Route Map attached
Dudhi 05	Roads towards Samara & Gawanpur	1	NA	0.29	Unpaved	Unpaved	Lease Owner	Route Map attached
Dudhi 06	Roads towards Samara & Gawanpur	3	NA	0.24	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto River								
Akto 01	Roads towards Urwan & Kanko	3	NA	0.09	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 02	Roads towards Urwan & Kanko	2	NA	1.17	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 03	Roads towards Urwan & Kanko	15	NA	0.59	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 04	Roads towards Urwan & Kanko	2	NA	1.91	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 05	Roads towards Urwan & Kanko	3	NA	0.18	Unpaved	Unpaved	Lease Owner	Route Map attached



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Enforcement & Monitoring Guidelines for Sand Mining

Akto 06	Roads towards Urwan & Kanko	4	NA	0.24	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 07	Roads towards Urwan & Kanko	11	NA	0.14	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 08	Roads towards Urwan & Kanko	7	NA	0.29	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 09	Roads towards Urwan & Kanko	9	NA	0.41	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso River								
Keso 01	Roads towards Pantisala & Birajpur	7	NA	0.30	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 02	Roads towards Pantisala & Birajpur	12	NA	0.33	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 03	Roads towards Pantisala & Birajpur	17	NA	0.21	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 04	Roads towards Matauni & Sonedih	19	NA	0.33	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 05	Roads towards Matauni & Sonedih	25	NA	0.35	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 06	Roads towards Matauni & Sonedih	15	NA	0.20	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 07	Roads towards Matauni & Sonedih	5	NA	0.12	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 08	Roads towards Matauni & Sonedih	3	NA	0.21	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 09	Roads towards Matauni & Sonedih	10	NA	0.29	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 10	Roads towards Matauni & Sonedih	3	NA	0.18	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 11	Roads towards Matauni & Sonedih	7	NA	0.17	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 12	Roads towards Matauni & Sonedih	29	NA	0.20	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 13	Roads towards Matauni & Sonedih	14	NA	0.63	Unpaved	Unpaved	Lease Owner	Route Map attached



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Keso 14	Roads towards Koderma & Jainagar	42	NA	0.24	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 15	Roads towards Koderma & Jainagar	25	NA	0.57	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 16	Roads towards Koderma & Jainagar	8	NA	0.18	Unpaved	Unpaved	Lease Owner	Route Map attached

Cluster No	Transportation Route No	Number of tipper s /day of cluster	Number of tipper s /day of all the clusters on route	Length of Route in KM	Type of Road (Black Topped/ unpaved)	Recommendation for road(Black Topped/ unpaved)	The road will be Constructed by Govt/Lease Owner	Route Map & Location
Dudhi 1-4	Roads towards Dumduma & Katia	4	NA	0.90	Unpaved	Unpaved	Lease Owner	Route Map attached
Dudhi 5-6	Roads towards Samara & Gawanpur	4	NA	0.53	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 01-02	Roads towards Urwan & Kanko	5	NA	1.26	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 4-9	Roads towards Urwan & Kanko, Roads towards Chhuthariktia & Tilkari	50	NA	3.17 & 1.11	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 01-03	Roads towards Pantisala & Birajpur	36	NA	0.84	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 4-13	Roads towards Koderma & Jainagar	129	NA	2.68	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 14-16	Roads towards Koderma & Jainagar	75	NA	0.99	Unpaved	Unpaved	Lease Owner	Route Map attached



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Annexure-I

Details of Sand/M-Sand Sources

a) Rivers:

River Plant	Name/M-Sand	Total Stretch of River (in KM)	Type of River (Perennial or Non-Perennial)
	Barakar	72.85	-
	Dudhi	-	-
	Akto	-	-
	Keso	-	-
	Dhanarjay	-	-
	Sakri	26.03	-

b) De-Siltation Location: (Lakes/Ponds/Dams etc.)

Name of Reservoir/Dams	Maintain/Controlled by State Govt./PSU etc.	Location	District	Tehsil	Village	Size(Ha)
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

c) Patta Lands/Khatedari Land:

Owner	Sy. No	Area (Ha)	District	Tehsil	Village	Agricultural Land (Yes/No)
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

d) M-Sand Plants:

Plant name	Owner	District	Tehsil	Village	Geo-location	Quantity (Tonnes)
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Note: For inclusion of M-Sand Plant/Patta Land in DSR the plant/landowners need to submit the request to the Mining Department with complete details. Inclusion in DSR does not give them the right to operate the M-Sand Plant/Sand Mining lease.



List of Potential Mining Leases (existing & proposed)



	Sandbars Code	Lease Details	Ha.	Distance in Km from PA/BR/WC	Distance from forest Area (in Km)	Mining Lease within 500 meters (if Yes Cluster Area)	Total excavation in Tonnes (Bulk Density: 1.57, Depth: 2 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020)	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing/ Proposed
1	PO_KD_CD_BK_01	Barakar 01	8.3			NO	260620	156372	Sand	Proposed
2	PO_KD_JN_BK_02	Barakar 02	2.92			Yes, Area: 3.79 Ha.	91688	55012.8	Sand	Proposed
3	PO_KD_JN_BK_03	Barakar 03	0.87				27318	16390.8	Sand	Proposed
4	PO_KD_JN_BK_04	Barakar 04	1.41			Yes, Area: 13.32 Ha.	44274	26564.4	Sand	Proposed
5	PO_KD_JN_BK_05	Barakar 05	5.05				158570	95142	Sand	Proposed
6	PO_KD_JN_BK_06	Barakar 06	1.26				39564	23738.4	Sand	Proposed
7	PO_KD_JN_BK_07	Barakar 07	4.23			Yes, Area: 7.22 Ha.	132822	79693.2	Sand	Proposed
8	PO_KD_JN_BK_08	Barakar 08	1.37				43018	25810.8	Sand	Proposed
9	PO_KD_JN_BK_09	Barakar 09	5.41			Yes, Area: 12.39 Ha.	169874	101924.4	Sand	Proposed
10	PO_KD_JN_BK_10	Barakar 10	1.81				56834	34100.4	Sand	Proposed
11	PO_KD_JN_BK_11	Barakar 11	4.85			Yes, Area: 12.39 Ha.	152290	91374	Sand	Proposed
12	PO_KD_JN_BK_12	Barakar 12	5.65				177410	106446	Sand	Proposed
13	PO_KD_JN_BK_13	Barakar 13	1.89				59346	35607.6	Sand	Proposed

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14	PO_KD_JN_BK_14	Barakar 14	5.75			NO	180550	108330	Sand	Proposed
15	PO_KD_JN_BK_15	Barakar 15	0.65			NO	20410	12246	Sand	Proposed
16	PO_KD_JN_BK_20	Barakar 16	0.26			Yes, Area:6.76 Ha.	8164	4898.4	Sand	Proposed
17	PO_KD_JN_BK_21	Barakar 17	0.77				24178	14506.8	Sand	Proposed
18	PO_KD_JN_BK_22	Barakar 18	1.11				34854	20912.4	Sand	Proposed
19	PO_KD_JN_BK_23	Barakar 19	0.76			NO	23864	14318.4	Sand	Proposed
20	PO_KD_JN_BK_26	Barakar 20	0.84				26376	15825.6	Sand	Proposed
21	PO_KD_JN_BK_27	Barakar 21	2.13				66882	40129.2	Sand	Proposed
22	PO_KD_JN_BK_28	Barakar 22	4.77			Yes, Area:11.68 Ha.	149778	89866.8	Sand	Proposed
23	PO_KD_JN_BK_29	Barakar 23	1.47				46158	27694.8	Sand	Proposed
24	PO_KD_JN_BK_30	Barakar 24	3.04				95456	57273.6	Sand	Proposed
25	PO_KD_JN_BK_31	Barakar 25	0.27			Yes, Area:2.84 Ha.	8478	5086.8	Sand	Proposed
26	PO_KD_JN_BK_34	Barakar 26	0.28				8792	5275.2	Sand	Proposed
27	PO_KD_JN_BK_35	Barakar 27	0.93				29202	17521.2	Sand	Proposed
28	PO_KD_JN_BK_36	Barakar 28	1.63			NO	51182	30709.2	Sand	Proposed
29	PO_KD_MC_BK_39	Barakar 29	6.89				216346	129807.6	Sand	Proposed



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Enforcement & Monitoring Guidelines for Sand Mining

SL NO.	Sandbars Code	Lease Details	Ha.	Distance in Km from PA/BR/WC	Distance from forest Area (in Km)	Mining Lease within 500 meters (if Yes Cluster Area)	Total excavation in Tonnes (Bulk Density 1.55, Depth: 1 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020)	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing/ Proposed
	PO_KD_CD_DD_01	Dudhi 01	0.38			Yes, Area: 0.81 Ha.	5890	3534	Sand	Proposed
	PO_KD_CD_DD_02	Dudhi 02	0.09				1395	837	Sand	Proposed
3	PO_KD_CD_DD_03	Dudhi 03	0.16				2480	1488	Sand	Proposed
4	PO_KD_CD_DD_06	Dudhi 04	0.18			Yes, Area: 0.73 Ha.	2790	1674	Sand	Proposed
5	PO_KD_CD_DD_10	Dudhi 05	0.08				1240	744	Sand	Proposed
6	PO_KD_CD_DD_11	Dudhi 06	0.65				10075	6045	Sand	Proposed



SL NO.	Sandbars Code	Lease Details	Ha.	Distance in Km from PA/BR/WC	Distance from forest Area (in Km)	Mining Lease within 500 meters (if Yes Cluster Area)	Total excavation in Tonnes (Bulk Density : 1.57, Depth: 1 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020)	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Proposed
1	PO_KD_JN_AK_03	Akto 01	0.74			Yes, Area: 1.37 Ha.	11618	6970.8	Sand	Proposed
2	PO_KD_JN_AK_04	Akto 02	0.63				9891	5934.6	Sand	Proposed
3	PO_KD_JN_AK_05	Akto 03	3.82			NO	59974	35984.4	Sand	Proposed
4	PO_KD_JN_AK_06	Akto 04	0.49				7693	4615.8	Sand	Proposed
5	PO_KD_JN_AK_07	Akto 05	0.76				11932	7159.2	Sand	Proposed
6	PO_KD_JN_AK_08	Akto 06	0.94			Yes, Area: 11.81 Ha.	14758	8854.8	Sand	Proposed
7	PO_KD_JN_AK_09	Akto 07	2.86				44902	26941.2	Sand	Proposed
8	PO_KD_JN_AK_10	Akto 08	1.69				26533	15919.8	Sand	Proposed
9	PO_KD_JN_AK_11	Akto 09	2.17				34069	20441.4	Sand	Proposed

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Enforcement & Monitoring Guidelines for Sand Mining

SL NO.	Sandbars Code	Lease Details	Ha.	Distance in Km from PA/BR/WC	Distance from forest Area (in Km)	Mining Lease within 500 meters (if Yes Cluster Area)	Total excavation in Tonnes (Bulk Density: 1.57, Depth: 2 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020)	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Proposed
1	PO_KD_DC_KS_01	Keso 01	0.89			Yes, Area: 4.6 Ha.	27946	16767.6	Sand	Proposed
2	PO_KD_DC_KS_02	Keso 02	1.56				48984	29390.4	Sand	Proposed
3	PO_KD_JN_KS_03	Keso 03	2.15				67510	40506	Sand	Proposed
4	PO_KD_JN_KS_04	Keso 04	2.36			Yes, Area: 16.44 Ha.	74104	44462.4	Sand	Proposed
5	PO_KD_JN_KS_05	Keso 05	3.18				99852	59911.2	Sand	Proposed
6	PO_KD_JN_KS_06	Keso 06	1.91				59974	35984.4	Sand	Proposed
7	PO_KD_JN_KS_07	Keso 07	0.6				18840	11304	Sand	Proposed
8	PO_KD_JN_KS_08	Keso 08	0.33				10362	6217.2	Sand	Proposed
9	PO_KD_MC_KS_09	Keso 09	1.24			Yes, Area: 9.56 Ha.	38936	23361.6	Sand	Proposed
10	PO_KD_MC_KS_10	Keso 10	0.39				12246	7347.6	Sand	Proposed
11	PO_KD_MC_KS_11	Keso 11	0.95				29830	17898	Sand	Proposed
12	PO_KD_JN_KS_12	Keso 12	3.74				117436	70461.6	Sand	Proposed
13	PO_KD_JN_KS_13	Keso 13	1.74				54636	32781.6	Sand	Proposed
14	PO_KD_JN_KS_17	Keso 14	5.35			Yes, Area: 9.56 Ha.	167990	100794	Sand	Proposed
15	PO_KD_JN_KS_18	Keso 15	3.21				100794	60476.4	Sand	Proposed
16	PO_KD_JN_KS_19	Keso 16	1				31400	18840	Sand	Proposed

SL NO.	Sandbars Code	Lease Details	Ha.	Distance in Km from PA/BR/WC	Distance from forest Area (in Km)	Mining Lease within 500 meters (if Yes Cluster Area)	Total excavation in Tonnes (Bulk Density: 1.55, Depth: 1 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020)	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Proposed
1	PO_KD_KD_DJ_01	Dhanarjay 01	0.79			NO	12245	7347	Sand	Proposed
2	PO_KD_KD_DJ_05	Dhanarjay 02	0.42				6510	3906	Sand	Proposed
3	PO_KD_KD_DJ_06	Dhanarjay 03	1.2			Yes, Area: 2.78	18600	11160	Sand	Proposed
4	PO_KD_KD_DJ_07	Dhanarjay 04	0.49				7595	4557	Sand	Proposed
5	PO_KD_KD_DJ_08	Dhanarjay 05	0.4				6200	3720	Sand	Proposed



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Enforcement & Monitoring Guidelines for Sand Mining

6	PO_KD_KD_DI_09	Dhanarjay 06	0.27				4185	2511	Sand	Proposed
7	PO_KD_KD_DI_11	Dhanarjay 07	0.85				13175	7905	Sand	Proposed
8	PO_KD_KD_DI_12	Dhanarjay 08	0.6			Yes, Area:1.45	9300	5580	Sand	Proposed



SL NO.	Sandbars Code	Lease Details	Ha.	Distance in Km from PA/BR/WC	Distance from forest Area (in Km)	Mining Lease within 500 meters (if Yes Cluster Area)	Total excavation in Tonnes (Bulk Density:1.55, Depth: 2m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020)	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Proposed
1	PO_KD_SG_SK_01	Sakri 01	60.8			Yes, Area:66.9	1884800	1130880	Sand	Proposed
2	PO_KD_SG_SK_02	Sakri 02	6.1				189100	113460	Sand	Proposed
3	PO_KD_SG_SK_03	Sakri 03	53			Yes, Area:85.19	1643000	985800	Sand	Proposed
4	PO_KD_SG_SK_04	Sakri 04	32.19				997890	598734	Sand	Proposed
5	PO_KD_SG_SK_05	Sakri 05	30.23			NO	937130	562278	Sand	Proposed

Patta Lands/Khatedari Land: (existing & proposed)

Owner	Sy.No	Area (Ha.)	District	Tehsil	Village	Total Reserve (MT) Considering	Total Mineral to be mined (MT)	Existing /Proposed
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Enforcement & Monitoring Guidelines for Sand Mining

De-Siltation Location: (Lakes/Ponds/Dams etc.) (Existing & proposed)

Name of Reservoir /Dams	Maintained by State Govt./PSU etc.	Location	District	Tehsil	Village	Size (Ha)	Quantity MT /Year	Existing /Proposed
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M-Sand Plants :(existing & proposed)

Plant name	Owner	District	Tehsil	Village	Geo-location	Quantity (Tonnes/Annum)	Existing/ Proposed
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available



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Annexure-III

Cluster & Contiguous Cluster Details

Clusters:

River Name	Cluster No.	Lease No	Location (Riverbed Patta Land)	Village	Area (in Ha.)	Total Excavation (Ton)	Total Mineral Excavation (Ton) (Considering 60% as per EMGSM, 2020)
Barakar	1	Barakar 2-3	Riverbed	-	3.79	1,19,006	71,403.6
	2	Barakar 4-8	Riverbed	-	13.32	4,18,248	250948.8
	3	Barakar 9-10	Riverbed	-	7.22	226708	1,36,024.8
	4	Barakar 11-13	Riverbed	-	12.39	3,89,046	2,33,427.6
	5	Barakar 16-19 & Akto 10-11	Riverbed	-	6.76	1,51,662	90997.2
	6	Barakar 21-25	Riverbed	-	11.68	3,66,752	2,20,051.
	7	Barakar 26-28	Riverbed	-	2.84	89176	53,505.6
Dudhi	8	Dudhi 1-4	Riverbed	-	0.81	12555	7,533
	9	Dudhi 5-6	Riverbed	-	0.73	11315	6789
Akto	10	Akto 01-02	Riverbed	-	1.37	21509	12,905.4
	11	Akto 6-11 & Barakar 16-19	Riverbed	-	11.81	230947	138568.2
Keso	12	Keso 01-03	Riverbed	-	4.6	144440	86664
	13	Keso 4-13	Riverbed	-	16.44	516216	3,09,729.6
	14	Keso 14-16	Riverbed	-	9.56	300184	180110.4
Djanarjay	15	Dhanarjay 02-06	Riverbed	-	2.78	43090	25854
	16	Dhanarjay 11-12	Riverbed		1.45	42475	25485
Sakri	17	Sakri 01-02	Riverbed		66.9	2073900	12,44,340
	18	Sakri 03-04	Riverbed		85.19	2640890	15,84,534



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Contiguous Clusters:

River Name	Contiguous Cluster No.	Cluster No	Number of leases in the cluster	Location (Riverbed / Patta Land)	Distance between clusters	Village	Area Of Cluster (Ha)	Total Mineral Excavation (Ton)
Barakar	NA	NA	NA	NA	NA	NA	NA	NA
Dudhi	NA	NA	NA	NA	NA	NA	NA	NA
Akto	NA	NA	NA	NA	NA	NA	NA	NA
Keso	NA	NA	NA	NA	NA	NA	NA	NA
Dhanarjay	NA	NA	NA	NA	NA	NA	NA	NA
Sakri	NA	NA	NA	NA	NA	NA	NA	NA





Annexure-IV

Transportation Routes for individual leases and leases in Cluster

Lease No	Transportation Route No	Number of tipper s /day of lease	Number of tipper s /day of all the lease on route	Length of Route in KM	Type of Road (Black Topped/ Unpaved)	Recommendation for road (Black Topped/ unpaved)	The road will be Constructed by Govt/ Lease Owner	Route Map & Location
Barakar River								
Barakar 01	Roads towards Bela & Chandabigha	65	NA	0.42	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 02	Roads towards Kushahan & Kolhua	23	NA	0.33	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 03	Roads towards Kushahan & Kolhua	7	NA	0.45	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 04	Roads towards Urwan & Kanko	11	NA	0.16	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 05	Roads towards Urwan & Kanko	40	NA	0.19	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 06	Roads towards Urwan & Kanko	10	NA	2.13	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 07	Roads towards Urwan & Kanko	33	NA	0.17	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 08	Roads towards Urwan & Kanko	11	NA	0.37	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 09	Roads towards Urwan & Kanko	42	NA	0.20	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 10	Roads towards Urwan & Kanko	14	NA	2.15	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 11	Roads towards Urwan & Kanko	38	NA	1.18	Unpaved	Unpaved	Lease Owner	Route Map attached



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Enforcement & Monitoring Guidelines for Sand Mining

Barakar 12	Roads towards Urwan & Kanko	44	NA	0.30	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 13	Roads towards Urwan & Kanko	15	NA	1.17	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 14	Roads towards Urwan & Kanko	45	NA	0.25	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 15	Roads towards Urwan & Kanko	5	NA	0.17	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 16	Roads towards Chhuthariktia & Tilkari	2	NA	0.24	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 17	Roads towards Chhuthariktia & Tilkari	6	NA	0.20	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 18	Roads towards Chhuthariktia & Tilkari	9	NA	0.22	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 19	Roads towards Chhuthariktia & Tilkari	6	NA	0.45	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 20	Roads towards Khariodih & Tilkori	7	NA	0.62	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 21	Roads towards Kharopki & Ghoraunja	17	NA	0.42	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 22	Roads towards Kharopki & Ghoraunja	37	NA	0.38	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 23	Roads towards Kharopki & Ghoraunja	12	NA	0.90	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 24	Roads towards Kharopki & Ghoraunja	24	NA	0.32	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 25	Roads towards Kharopki & Ghoraunja	2	NA	0.39	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 26	Roads towards Dumduma & Parasabad	2	NA	0.60	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 27	Roads towards Dumduma & Katia	7	NA	0.74	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 28	Roads towards Dumduma & Katia	13	NA	0.54	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 29	Roads towards Koderma &	54	NA	0.34	Unpaved	Unpaved	Lease Owner	Route Map



Enforcement & Monitoring Guidelines for Sand Mining

	Jainagar							attached
Dudhi River								
Dudhi 01	Roads towards Jamkatti & Kanko	1	NA	0.22	Unpaved	Unpaved	Lease Owner	Route Map attached
Dudhi 02	Roads towards Jamkatti & Kanko	1	NA	0.24	Unpaved	Unpaved	Lease Owner	Route Map attached
Dudhi 03	Roads towards Jamkatti & Kanko	1	NA	0.20	Unpaved	Unpaved	Lease Owner	Route Map attached
Dudhi 04	Roads towards Jamkatti & Kanko	1	NA	0.24	Unpaved	Unpaved	Lease Owner	Route Map attached
Dudhi 05	Roads towards Samara & Gawanpur	1	NA	0.29	Unpaved	Unpaved	Lease Owner	Route Map attached
Dudhi 06	Roads towards Samara & Gawanpur	3	NA	0.24	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto River								
Akto 01	Roads towards Urwan & Kanko	3	NA	0.09	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 02	Roads towards Urwan & Kanko	2	NA	1.17	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 03	Roads towards Urwan & Kanko	15	NA	0.59	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 04	Roads towards Urwan & Kanko	2	NA	1.91	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 05	Roads towards Urwan & Kanko	3	NA	0.18	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 06	Roads towards Urwan & Kanko	4	NA	0.24	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 07	Roads towards Urwan & Kanko	11	NA	0.14	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 08	Roads towards Urwan & Kanko	7	NA	0.29	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 09	Roads towards Urwan & Kanko	9	NA	0.41	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso River								



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Enforcement & Monitoring Guidelines for Sand Mining

Keso 01	Roads towards Pantisala & Birajpur	7	NA	0.30	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 02	Roads towards Pantisala & Birajpur	12	NA	0.33	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 03	Roads towards Pantisala & Birajpur	17	NA	0.21	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 04	Roads towards Matauni & Sonedih	19	NA	0.33	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 05	Roads towards Matauni & Sonedih	25	NA	0.35	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 06	Roads towards Matauni & Sonedih	15	NA	0.20	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 07	Roads towards Matauni & Sonedih	5	NA	0.12	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 08	Roads towards Matauni & Sonedih	3	NA	0.21	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 09	Roads towards Matauni & Sonedih	10	NA	0.29	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 10	Roads towards Matauni & Sonedih	3	NA	0.18	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 11	Roads towards Matauni & Sonedih	7	NA	0.17	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 12	Roads towards Matauni & Sonedih	29	NA	0.20	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 13	Roads towards Matauni & Sonedih	14	NA	0.63	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 14	Roads towards Koderma & Jainagar	42	NA	0.24	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 15	Roads towards Koderma & Jainagar	25	NA	0.57	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 16	Roads towards Koderma & Jainagar	8	NA	0.18	Unpaved	Unpaved	Lease Owner	Route Map attached
Dhanarjay River								
Dhanarjay 01	Roads towards Ranchi & Patna	3	NA	0.29	Unpaved	Unpaved	Lease Owner	Route Map attached



Enforcement & Monitoring Guidelines for Sand Mining

Dhanarjay 02	Roads towards Ranchi & Patna	2	NA	0.12	Unpaved	Unpaved	Lease Owner	Route Map attached
Dhanarjay 03	Roads towards Ranchi & Patna	5	NA	0.57	Unpaved	Unpaved	Lease Owner	Route Map attached
Dhanarjay 04	Roads towards Ranchi & Patna	2	NA	0.25	Unpaved	Unpaved	Lease Owner	Route Map attached
Dhanarjay 05	Roads towards Ranchi & Patna	2	NA	0.29	Unpaved	Unpaved	Lease Owner	Route Map attached
Dhanarjay 06	Roads towards Ranchi & Patna	1	NA	0.30	Unpaved	Unpaved	Lease Owner	Route Map attached
Dhanarjay 07	Roads towards Ranchi & Patna	3	NA	0.44	Unpaved	Unpaved	Lease Owner	Route Map attached
Dhanarjay 08	Roads towards Ranchi & Patna	2	NA	0.31	Unpaved	Unpaved	Lease Owner	Route Map attached
Sakri River								
Sakri 01	Roads towards Gobindpur & Khaira Kalan	471	NA	1.88	Unpaved	Unpaved	Lease Owner	Route Map attached
Sakri 02	Roads towards Gobindpur & Khaira Kalan	47	NA	0.33	Unpaved	Unpaved	Lease Owner	Route Map attached
Sakri 03	Roads towards Khaira Kalan & Basodih	411	NA	0.14	Unpaved	Unpaved	Lease Owner	Route Map attached
Sakri 04	Roads towards Khaira Kalan & Basodih	249	NA	1.21	Unpaved	Unpaved	Lease Owner	Route Map attached
Sakri 05	Roads towards Khaira Kalan & Basodih	234	NA	1.35	Unpaved	Unpaved	Lease Owner	Route Map attached

Cluster:

Cluster No	Transportation Route No	Number of tipper s /day of cluster	Number of tipper s /day of all the clusters on	Length of Route in KM	Type of Road (Black Topped/ Unpaved)	Recommendation for road(Black Topped/ unpaved)	The road will be Constructed by Govt/Lease Owner	Route Map & Location
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Enforcement & Monitoring Guidelines for Sand Mining

			route					
Barakar 2-3	Roads towards Kushahan & Kolhua	30	NA	0.78	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 4-8	Roads towards Urwan & Kanko	105	NA	3.02	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 9-10	Roads towards Urwan & Kanko	57	NA	2.35	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 11-13	Roads towards Urwan & Kanko	97	NA	2.65	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 16-19 & Akto 8-9	Roads towards Chhuthariktia & Tilkari, Roads towards Urwan & Kanko	38	NA	1.11 & 0.7	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 21-25	Roads towards Kharopki & Ghoraunja	92	NA	2.41	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 26-28	Roads towards Dumduma & Parasabad, Roads towards Dumduma & Katia	22	NA	1.88	Unpaved	Unpaved	Lease Owner	Route Map attached
Dudhi 1-4	Roads towards Dumduma & Katia	4	NA	0.90	Unpaved	Unpaved	Lease Owner	Route Map attached
Dudhi 5-6	Roads towards Samara & Gawanpur	4	NA	0.53	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 01-02	Roads towards Urwan & Kanko	5	NA	1.26	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 4-9 & Barakar 16-19	Roads towards Urwan & Kanko, Roads towards Chhuthariktia & Tilkari	58	NA	3.17 & 1.11	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 01-03	Roads towards Pantisala & Birajpur	36	NA	0.84	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 4-13	Roads towards Koderma & Jainagar	129	NA	2.68	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 14-16	Roads towards Koderma & Jainagar	75	NA	0.99	Unpaved	Unpaved	Lease Owner	Route Map attached



Enforcement & Monitoring Guidelines for Sand Mining

Dhanarjay 02-06	Roads towards Ranchi & Patna	11	NA	1.53	Unpaved	Unpaved	Lease Owner	Route Map attached
Dhanarjay 07-08	Roads towards Ranchi & Patna	5	NA	0.75	Unpaved	Unpaved	Lease Owner	Route Map attached
Sakri 01-02	Roads towards Gobindpur & Khaira Kalan,	518	NA	2.21	Unpaved	Unpaved	Lease Owner	Route Map attached
Sakri 03-04	Roads towards Khaira Kalan & Basodih	660	NA	1.35	Unpaved	Unpaved	Lease Owner	Route Map attached



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Final List of Potential Mining Leases (existing & proposed)

Rivers

SL NO.	Sandbars Code	Lease Details	Ha.	Distance in Km from PA/BR/WC	Distance from forest Area (in Km)	Mining Lease within 500 meters (if Yes Cluster Area)	Total excavation in Tonnes (Bulk Density: 1.57, Depth: 2 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020)	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing/ Proposed
1	PO_KD_CD_BK_01	Barakar 01	8.3			NO	260620	156372	Sand	Proposed
2	PO_KD_JN_BK_02	Barakar 02	2.92			Yes, Area: 3.79 Ha.	91688	55012.8	Sand	Proposed
3	PO_KD_JN_BK_03	Barakar 03	0.87				27318	16390.8	Sand	Proposed
4	PO_KD_JN_BK_04	Barakar 04	1.41			Yes, Area: 13.32 Ha.	44274	26564.4	Sand	Proposed
5	PO_KD_JN_BK_05	Barakar 05	5.05				158570	95142	Sand	Proposed
6	PO_KD_JN_BK_06	Barakar 06	1.26				39564	23738.4	Sand	Proposed
7	PO_KD_JN_BK_07	Barakar 07	4.23			Yes, Area: 7.22 Ha.	132822	79693.2	Sand	Proposed
8	PO_KD_JN_BK_08	Barakar 08	1.37				43018	25810.8	Sand	Proposed
9	PO_KD_JN_BK_09	Barakar 09	5.41			Yes, Area: 12.39 Ha.	169874	101924.4	Sand	Proposed
10	PO_KD_JN_BK_10	Barakar 10	1.81				56834	34100.4	Sand	Proposed
11	PO_KD_JN_BK_11	Barakar 11	4.85			Yes, Area: 12.39 Ha.	152290	91374	Sand	Proposed
12	PO_KD_JN_BK_12	Barakar 12	5.65				177410	106446	Sand	Proposed
13	PO_KD_JN_BK_13	Barakar 13	1.89				59346	35607.6	Sand	Proposed



Enforcement & Monitoring Guidelines for Sand Mining

13	PO_KD_JN_BK_14	Barakar 14	5.75				NO	180550	108330	Sand	Proposed
14	PO_KD_JN_BK_15	Barakar 15	0.65				NO	20410	12246	Sand	Proposed
15	PO_KD_JN_BK_20	Barakar 16	0.26				Yes, Area:6.76 Ha.	8164	4898.4	Sand	Proposed
16	PO_KD_JN_BK_21	Barakar 17	0.77					24178	14506.8	Sand	Proposed
17	PO_KD_JN_BK_22	Barakar 18	1.11					34854	20912.4	Sand	Proposed
18	PO_KD_JN_BK_23	Barakar 19	0.76				NO	23864	14318.4	Sand	Proposed
19	PO_KD_JN_BK_26	Barakar 20	0.84					26376	15825.6	Sand	Proposed
20	PO_KD_JN_BK_27	Barakar 21	2.13					66882	40129.2	Sand	Proposed
21	PO_KD_JN_BK_28	Barakar 22	4.77				Yes, Area:11.68 Ha.	149778	89866.8	Sand	Proposed
22	PO_KD_JN_BK_29	Barakar 23	1.47					46158	27694.8	Sand	Proposed
23	PO_KD_JN_BK_30	Barakar 24	3.04					95456	57273.6	Sand	Proposed
24	PO_KD_JN_BK_31	Barakar 25	0.27				Yes, Area:2.84 Ha.	8478	5086.8	Sand	Proposed
25	PO_KD_JN_BK_34	Barakar 26	0.28					8792	5275.2	Sand	Proposed
26	PO_KD_JN_BK_35	Barakar 27	0.93					29202	17521.2	Sand	Proposed
27	PO_KD_JN_BK_36	Barakar 28	1.63				NO	51182	30709.2	Sand	Proposed
28	PO_KD_JN_BK_39	Barakar 29	6.89					216346	129807.6	Sand	Proposed



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Enforcement & Monitoring Guidelines for Sand Mining

SL NO.	Sandbars Code	Lease Details	Ha.	Distance in Km from PA/BR/W/C	Distance from forest Area (in Km)	Mining Lease within 500 meters (if Yes Cluster Area)	Total excavation in Tonnes (Bulk Density 1.55, Depth: 1 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020)	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing/ Proposed
1	PO_KD_CD_DD_01	Dudhi 01	0.38			Yes, Area:0.81 Ha.	5890	3534	Sand	Proposed
2	PO_KD_CD_DD_02	Dudhi 02	0.09				1395	837	Sand	Proposed
3	PO_KD_CD_DD_03	Dudhi 03	0.16				2480	1488	Sand	Proposed
4	PO_KD_CD_DD_06	Dudhi 04	0.18				2790	1674	Sand	Proposed
5	PO_KD_CD_DD_10	Dudhi 05	0.08			Yes, Area:0.73 Ha.	1240	744	Sand	Proposed
6	PO_KD_CD_DD_11	Dudhi 06	0.65				10075	6045	Sand	Proposed

SL NO.	Sandbars Code	Lease Details	Ha.	Distance in Km from PA/BR/W/C	Distance from forest Area (in Km)	Mining Lease within 500 meters (if Yes Cluster Area)	Total excavation in Tonnes (Bulk Density :1.57, Depth: 1 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020)	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Proposed
1	PO_KD_JN_AK_03	Akto 01	0.74			Yes, Area:1.37 Ha.	11618	6970.8	Sand	Proposed
2	PO_KD_JN_AK_04	Akto 02	0.63				9891	5934.6	Sand	Proposed
3	PO_KD_JN_AK_05	Akto 03	3.82			NO	59974	35984.4	Sand	Proposed
4	PO_KD_JN_AK_06	Akto 04	0.49				7693	4615.8	Sand	Proposed
5	PO_KD_JN_AK_07	Akto 05	0.76			Yes, Area: 11.81 Ha.	11932	7159.2	Sand	Proposed
6	PO_KD_JN_AK_08	Akto 06	0.94				14758	8854.8	Sand	Proposed
7	PO_KD_JN_AK_09	Akto 07	2.86				44902	26941.2	Sand	Proposed
8	PO_KD_JN_AK_10	Akto 08	1.69				26533	15919.8	Sand	Proposed
9	PO_KD_JN_AK_11	Akto 09	2.17				34069	20441.4	Sand	Proposed



Enforcement & Monitoring Guidelines for Sand Mining

SL NO.	Sandbars Code	Lease Details	Ha.	Distance in Km from PA/BR/WC	Distance from forest Area (in Km)	Mining Lease within 500 meters (if Yes Cluster Area)	Total excavation in Tonnes (Bulk Density: 1.57, Depth: 2 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020)	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Proposed
1	PO_KD_DC_KS_01	Keso 01	0.89			Yes, Area: 4.6 Ha.	27946	16767.6	Sand	Proposed
2	PO_KD_DC_KS_02	Keso 02	1.56				48984	29390.4	Sand	Proposed
3	PO_KD_JN_KS_03	Keso 03	2.15				67510	40506	Sand	Proposed
4	PO_KD_JN_KS_04	Keso 04	2.36			Yes, Area: 16.44 Ha.	74104	44462.4	Sand	Proposed
5	PO_KD_JN_KS_05	Keso 05	3.18				99852	59911.2	Sand	Proposed
6	PO_KD_JN_KS_06	Keso 06	1.91				59974	35984.4	Sand	Proposed
7	PO_KD_JN_KS_07	Keso 07	0.6				18840	11304	Sand	Proposed
8	PO_KD_JN_KS_08	Keso 08	0.33				10362	6217.2	Sand	Proposed
9	PO_KD_MC_KS_09	Keso 09	1.24				38936	23361.6	Sand	Proposed
10	PO_KD_MC_KS_10	Keso 10	0.39				12246	7347.6	Sand	Proposed
11	PO_KD_MC_KS_11	Keso 11	0.95			Yes, Area: 9.56 Ha.	29830	17898	Sand	Proposed
12	PO_KD_JN_KS_12	Keso 12	3.74				117436	70461.6	Sand	Proposed
13	PO_KD_JN_KS_13	Keso 13	1.74				54636	32781.6	Sand	Proposed
14	PO_KD_JN_KS_17	Keso 14	5.35				167990	100794	Sand	Proposed
15	PO_KD_JN_KS_18	Keso 15	3.21				100794	60476.4	Sand	Proposed
16	PO_KD_JN_KS_19	Keso 16	1				31400	18840	Sand	Proposed

SL NO.	Sandbars Code	Lease Details	Ha.	Distance in Km from PA/BR/WC	Distance from forest Area (in Km)	Mining Lease within 500 meters (if Yes Cluster Area)	Total excavation in Tonnes (Bulk Density: 1.55, Depth: 1 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020)	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Proposed
1	PO_KD_KD_DJ_01	Dhanarjay 01	0.79			NO	12245	7347	Sand	Proposed
2	PO_KD_KD_DJ_05	Dhanarjay 02	0.42				6510	3906	Sand	Proposed
3	PO_KD_KD_DJ_06	Dhanarjay 03	1.2			Yes, Area: 2.78	18600	11160	Sand	Proposed
4	PO_KD_KD_DJ_07	Dhanarjay 04	0.49				7595	4557	Sand	Proposed
5	PO_KD_KD_DJ_08	Dhanarjay 05	0.4				6200	3720	Sand	Proposed

Enforcement & Monitoring Guidelines for Sand Mining

6	PO_KD_KD_DJ_09	Dhanarjay 06	0.27				4185	2511	Sand	Proposed
7	PO_KD_KD_DJ_11	Dhanarjay 07	0.85			Yes, Area: 1.45	13175	7905	Sand	Proposed
8	PO_KD_KD_DJ_12	Dhanarjay 08	0.6				9300	5580	Sand	Proposed

SL NO.	Sandbars Code	Lease Details	Ha.	Distance in Km from PA/BR/WC	Distance from forest Area (in Km)	Mining Lease within 500 meters (if Yes Cluster Area)	Total excavation in Tonnes (Bulk Density: 1.55, Depth: 2m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020)	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Proposed
1	PO_KD_SG_SK_01	Sakri 01	60.8			Yes, Area: 66.9	1884800	1130880	Sand	Proposed
2	PO_KD_SG_SK_02	Sakri 02	6.1				189100	113460	Sand	Proposed
3	PO_KD_SG_SK_03	Sakri 03	53			Yes, Area: 85.19	1643000	985800	Sand	Proposed
4	PO_KD_SG_SK_04	Sakri 04	32.19				997890	598734	Sand	Proposed
5	PO_KD_SG_SK_05	Sakri 05	30.23			NO	937130	562278	Sand	Proposed

Patta Lands/Khatedari Land: (existing & proposed)

Owner	Sy.No	Area (Ha.)	District	Tehsil	Village	Total Reserve (MT) Considering	Total Mineral to be mined (MT)	Existing /Proposed
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

De-Siltation Location: (Lakes/Ponds/Dams etc.) (Existing & proposed)



Enforcement & Monitoring Guidelines for Sand Mining

Name of Reservoir / Dams	Maintained / Controlled by State Govt./PSU etc.	Location	District	Tehsil	Village	Size (Ha)	Quantity MT / Year	Existing / Proposed
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M-Sand Plants : (existing & proposed)

Plant name	Owner	District	Tehsil	Village	Geo-location	Quantity (Tonnes/Annum)	Existing / Proposed
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available



Annexure-VI

Final Cluster & Contiguous Cluster details

Clusters:

River Name	Cluster No.	Lease No	Location (Riverbed Patta Land)	Village	Area (in Ha.)	Total Excavation (Ton)	Total Mineral Excavation (Ton) (Considering 60% as per EMGSM, 2020)
Barakar	1	Barakar 2-3	Riverbed	-	3.79	1,19,006	71,403.6
	2	Barakar 4-8	Riverbed	-	13.32	4,18,248	250948.8
	3	Barakar 9-10	Riverbed	-	7.22	226708	1,36,024.8
	4	Barakar 11-13	Riverbed	-	12.39	3,89,046	2,33,427.6
	5	Barakar 16-19 & Akto 10-11	Riverbed	-	6.76	1,51,662	90997.2
	6	Barakar 21-25	Riverbed	-	11.68	3,66,752	2,20,051.
	7	Barakar 26-28	Riverbed	-	2.84	89176	53,505.6
Dudhi	8	Dudhi 1-4	Riverbed	-	0.81	12555	7,533
	9	Dudhi 5-6	Riverbed	-	0.73	11315	6789
Akto	10	Akto 01-02	Riverbed	-	1.37	21509	12,905.4
	11	Akto 6-11 & Barakar 16-19	Riverbed	-	11.81	230947	138568.2
Keso	12	Keso 01-03	Riverbed	-	4.6	144440	86664
	13	Keso 4-13	Riverbed	-	16.44	516216	3,09,729.6
	14	Keso 14-16	Riverbed	-	9.56	300184	180110.4
Djanarjay	15	Dhanarjay 02-06	Riverbed	-	2.78	43090	25854
	16	Dhanarjay 11-12	Riverbed	-	1.45	42475	25485
Sakri	17	Sakri 01-02	Riverbed	-	66.9	2073900	12,44,340
	18	Sakri 03-04	Riverbed	-	85.19	2640890	15,84,534

Contiguous Clusters:

River Name	Contiguous Cluster No.	Cluster No	Number of leases	Location (Riverbed /	Distance between clusters	Village	Area Of Cluster	Total Mineral Excavation
------------	------------------------	------------	------------------	----------------------	---------------------------	---------	-----------------	--------------------------



Enforcement & Monitoring Guidelines for Sand Mining

			in the cluster	Patta Land)			(Ha)	(Ton)
Barakar	NA	NA	NA	NA	NA	NA	NA	NA
Dudhi	NA	NA	NA	NA	NA	NA	NA	NA
Akto	NA	NA	NA	NA	NA	NA	NA	NA
Keso	NA	NA	NA	NA	NA	NA	NA	NA
Dhanarjay	NA	NA	NA	NA	NA	NA	NA	NA
Sakri	NA	NA	NA	NA	NA	NA	NA	NA



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Enforcement & Monitoring Guidelines for Sand Mining

Annexure-VII

Final Transportation Routes for individual leases and leases in Cluster

Lease No	Transportation Route No	Number of tipper s /day of lease	Number of tipper s /day of all the lease on route	Length of Route in KM	Type of Road (Black Topped/ unpaved)	Recommendation for road (Black Topped/ unpaved)	The road will be Constructed by Govt/ Lease Owner	Route Map & Location
Barakar River								
Barakar 01	Roads towards Bela & Chandabigha	65	NA	0.42	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 02	Roads towards Kushahan & Kolhua	23	NA	0.33	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 03	Roads towards Kushahan & Kolhua	7	NA	0.45	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 04	Roads towards Urwan & Kanko	11	NA	0.16	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 05	Roads towards Urwan & Kanko	40	NA	0.19	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 06	Roads towards Urwan & Kanko	10	NA	2.13	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 07	Roads towards Urwan & Kanko	33	NA	0.17	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 08	Roads towards Urwan & Kanko	11	NA	0.37	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 09	Roads towards Urwan & Kanko	42	NA	0.20	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 10	Roads towards Urwan & Kanko	14	NA	2.15	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 11	Roads towards Urwan & Kanko	38	NA	1.18	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 12	Roads towards Urwan & Kanko	44	NA	0.30	Unpaved	Unpaved	Lease Owner	Route Map attached



Enforcement & Monitoring Guidelines for Sand Mining

Barakar 13	Roads towards Urwan & Kanko	15	NA	1.17	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 14	Roads towards Urwan & Kanko	45	NA	0.25	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 15	Roads towards Urwan & Kanko	5	NA	0.17	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 16	Roads towards Chhuthariktia & Tilkari	2	NA	0.24	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 17	Roads towards Chhuthariktia & Tilkari	6	NA	0.20	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 18	Roads towards Chhuthariktia & Tilkari	9	NA	0.22	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 19	Roads towards Chhuthariktia & Tilkari	6	NA	0.45	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 20	Roads towards Khariodih & Tilkori	7	NA	0.62	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 21	Roads towards Kharopki & Ghoraunja	17	NA	0.42	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 22	Roads towards Kharopki & Ghoraunja	37	NA	0.38	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 23	Roads towards Kharopki & Ghoraunja	12	NA	0.90	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 24	Roads towards Kharopki & Ghoraunja	24	NA	0.32	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 25	Roads towards Kharopki & Ghoraunja	2	NA	0.39	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 26	Roads towards Dumduma & Parasabad	2	NA	0.60	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 27	Roads towards Dumduma & Katia	7	NA	0.74	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 28	Roads towards Dumduma & Katia	13	NA	0.54	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 29	Roads towards Koderma & Jainagar	54	NA	0.34	Unpaved	Unpaved	Lease Owner	Route Map attached

Dudhi River



2

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Enforcement & Monitoring Guidelines for Sand Mining

Dudhi 01	Roads towards Jamkatti & Kanko	1	NA	0.22	Unpaved	Unpaved	Lease Owner	Route Map attached
Dudhi 02	Roads towards Jamkatti & Kanko	1	NA	0.24	Unpaved	Unpaved	Lease Owner	Route Map attached
Dudhi 03	Roads towards Jamkatti & Kanko	1	NA	0.20	Unpaved	Unpaved	Lease Owner	Route Map attached
Dudhi 04	Roads towards Jamkatti & Kanko	1	NA	0.24	Unpaved	Unpaved	Lease Owner	Route Map attached
Dudhi 05	Roads towards Samara & Gawanpur	1	NA	0.29	Unpaved	Unpaved	Lease Owner	Route Map attached
Dudhi 06	Roads towards Samara & Gawanpur	3	NA	0.24	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto River								
Akto 01	Roads towards Urwan & Kanko	3	NA	0.09	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 02	Roads towards Urwan & Kanko	2	NA	1.17	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 03	Roads towards Urwan & Kanko	15	NA	0.59	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 04	Roads towards Urwan & Kanko	2	NA	1.91	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 05	Roads towards Urwan & Kanko	3	NA	0.18	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 06	Roads towards Urwan & Kanko	4	NA	0.24	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 07	Roads towards Urwan & Kanko	11	NA	0.14	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 08	Roads towards Urwan & Kanko	7	NA	0.29	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 09	Roads towards Urwan & Kanko	9	NA	0.41	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso River								
Keso 01	Roads towards Pantisala & Birajpur	7	NA	0.30	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 02	Roads towards Pantisala &	12	NA	0.33	Unpaved	Unpaved	Lease Owner	Route Map



Enforcement & Monitoring Guidelines for Sand Mining

	Birajpur							attached
Keso 03	Roads towards Pantisala & Birajpur	17	NA	0.21	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 04	Roads towards Matauni & Sonedih	19	NA	0.33	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 05	Roads towards Matauni & Sonedih	25	NA	0.35	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 06	Roads towards Matauni & Sonedih	15	NA	0.20	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 07	Roads towards Matauni & Sonedih	5	NA	0.12	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 08	Roads towards Matauni & Sonedih	3	NA	0.21	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 09	Roads towards Matauni & Sonedih	10	NA	0.29	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 10	Roads towards Matauni & Sonedih	3	NA	0.18	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 11	Roads towards Matauni & Sonedih	7	NA	0.17	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 12	Roads towards Matauni & Sonedih	29	NA	0.20	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 13	Roads towards Matauni & Sonedih	14	NA	0.63	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 14	Roads towards Koderma & Jainagar	42	NA	0.24	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 15	Roads towards Koderma & Jainagar	25	NA	0.57	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 16	Roads towards Koderma & Jainagar	8	NA	0.18	Unpaved	Unpaved	Lease Owner	Route Map attached
Dhanarjay River								
Dhanarjay 01	Roads towards Ranchi & Patna	3	NA	0.29	Unpaved	Unpaved	Lease Owner	Route Map attached
Dhanarjay 02	Roads towards Ranchi & Patna	2	NA	0.12	Unpaved	Unpaved	Lease Owner	Route Map attached
Dhanarjay 03	Roads towards Ranchi & Patna	5	NA	0.57	Unpaved	Unpaved	Lease Owner	Route Map attached



2

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Enforcement & Monitoring Guidelines for Sand Mining

								attached
Dhanarjay 04	Roads towards Ranchi & Patna	2	NA	0.25	Unpaved	Unpaved	Lease Owner	Route Map attached
Dhanarjay 05	Roads towards Ranchi & Patna	2	NA	0.29	Unpaved	Unpaved	Lease Owner	Route Map attached
Dhanarjay 06	Roads towards Ranchi & Patna	1	NA	0.30	Unpaved	Unpaved	Lease Owner	Route Map attached
Dhanarjay 07	Roads towards Ranchi & Patna	3	NA	0.44	Unpaved	Unpaved	Lease Owner	Route Map attached
Dhanarjay 08	Roads towards Ranchi & Patna	2	NA	0.31	Unpaved	Unpaved	Lease Owner	Route Map attached

Sakri River

Sakri 01	Roads towards Gobindpur & Khaira Kalan	471	NA	1.88	Unpaved	Unpaved	Lease Owner	Route Map attached
Sakri 02	Roads towards Gobindpur & Khaira Kalan	47	NA	0.33	Unpaved	Unpaved	Lease Owner	Route Map attached
Sakri 03	Roads towards Khaira Kalan & Basodih	411	NA	0.14	Unpaved	Unpaved	Lease Owner	Route Map attached
Sakri 04	Roads towards Khaira Kalan & Basodih	249	NA	1.21	Unpaved	Unpaved	Lease Owner	Route Map attached
Sakri 05	Roads towards Khaira Kalan & Basodih	234	NA	1.35	Unpaved	Unpaved	Lease Owner	Route Map attached

Cluster No	Transportation Route No	Number of tipper s /day of cluster	Number of tipper s /day of all the clusters on route	Length of Route in KM	Type of Road (Black Topped/ Unpaved)	Recommendation for road (Black Topped/ unpaved)	The road will be Constructed by Govt/Lease Owner	Route Map & Location
Barakar 2-3	Roads towards Kushahan & Kolhua	30	NA	0.78	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 4-8	Roads towards Urwan & Kanko	105	NA	3.02	Unpaved	Unpaved	Lease Owner	Route Map attached



Enforcement & Monitoring Guidelines for Sand Mining

Barakar 9-10	Roads towards Urwan & Kanko	57	NA	2.35	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 11-13	Roads towards Urwan & Kanko	97	NA	2.65	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 16-19 & Akto 8-9	Roads towards Chhuthariktia & Tilkari, Roads towards Urwan & Kanko	38	NA	1.11 & 0.7	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 21-25	Roads towards Kharopki & Ghoraunja	92	NA	2.41	Unpaved	Unpaved	Lease Owner	Route Map attached
Barakar 26-28	Roads towards Dumduma & Parasabad, Roads towards Dumduma & Katia	22	NA	1.88	Unpaved	Unpaved	Lease Owner	Route Map attached
Dudhi 1-4	Roads towards Dumduma & Katia	4	NA	0.90	Unpaved	Unpaved	Lease Owner	Route Map attached
Dudhi 5-6	Roads towards Samara & Gawanpur	4	NA	0.53	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 01-02	Roads towards Urwan & Kanko	5	NA	1.26	Unpaved	Unpaved	Lease Owner	Route Map attached
Akto 4-9 & Barakar 16-19	Roads towards Urwan & Kanko, Roads towards Chhuthariktia & Tilkari	58	NA	3.17 & 1.11	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 01-03	Roads towards Pantisala & Birajpur	36	NA	0.84	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 4-13	Roads towards Koderma & Jainagar	129	NA	2.68	Unpaved	Unpaved	Lease Owner	Route Map attached
Keso 14-16	Roads towards Koderma & Jainagar	75	NA	0.99	Unpaved	Unpaved	Lease Owner	Route Map attached
Dhanarjay 02-06	Roads towards Ranchi & Patna	11	NA	1.53	Unpaved	Unpaved	Lease Owner	Route Map attached
Dhanarjay 07-08	Roads towards Ranchi & Patna	5	NA	0.75	Unpaved	Unpaved	Lease Owner	Route Map attached
Sakri 01-02	Roads towards Gohindpur & Khair Kalan,	518	NA	2.21	Unpaved	Unpaved	Lease Owner	Route Map attached



Enforcement & Monitoring Guidelines for Sand Mining

Sakri 03-04	Roads towards Khaira Kalan & Basodih	660	NA	1.35	Unpaved	Unpaved	Lease Owner	Route Map attached
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ANNEXURE- I
(Haul Road Map)

24°20'35.50"N



85°32'35.12"E

24°20'35.50"N

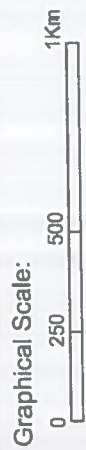


HAUL ROAD MAP OF THE PROJECT SITE

- Legend
- Project Site
 - Haul Road
 - Mettalled Road

Project: PO_KD_CD_CD_BK_01
Barakar River
Dist-Kodarma

Source: Google Earth Image



24°20'35.86"N



85°34'19.28"E

24°20'35.86"N



HAUL ROAD MAP OF THE PROJECT SITE

Legend



Project Site



Hou Road



Metalled Road

Project: PO_KD_JN_BK_02
PO_KD_JN_BK_03
Barakar River
Dist-Kodarma

Source: Google Earth Image

Graphical Scale:



24°20'48.36"N



85°34'58.57"E

24°20'48.36"N



HAUL ROAD MAP OF THE PROJECT SITE

Legend



Project Site



Haul Road



Metalled Road

Project: PO_KD_JN_BK_04
PO_KD_JN_BK_05
PO_KD_JN_BK_06
PO_KD_JN_BK_07
PO_KD_JN_BK_08
Barakar River
Dist-Kodarma

Source: Google Earth Image

Graphical Scale:



Approved

24°20'22.23"N



85°36'29.17"E

24°20'22.23"N



HAUL ROAD MAP OF THE PROJECT SITE

Legend



Project Site



Haul Road



Metalled Road

Project: PO_KD_JN_BK_09
PO_KD_JN_BK_10
Barakar River
Dist-Kodarma

Source: Google Earth Image

Graphical Scale:



24°19'48.06"N



85°38'24.60"E

85°38'24.60"E



HAUL ROAD MAP OF THE PROJECT SITE

- Legend
- Project Site
 - Haul Road
 - Mettalled Road

Project: PO_KD_JN_BK_11
PO_KD_JN_BK_12
PO_KD_JN_BK_13
PO_KD_JN_BK_14
Barakar River
Dist-Kodarma

Source: Google Earth Image



24°19'56.76"N



85°39'43.17"E

24°19'56.36"N



HAUL ROAD MAP OF THE PROJECT SITE

- Legend
- Project Site
 - Haul Road
 - Mettalled Road

Project: PO_KD_JN_BK_15
Barakar River
Dist-Kodarma

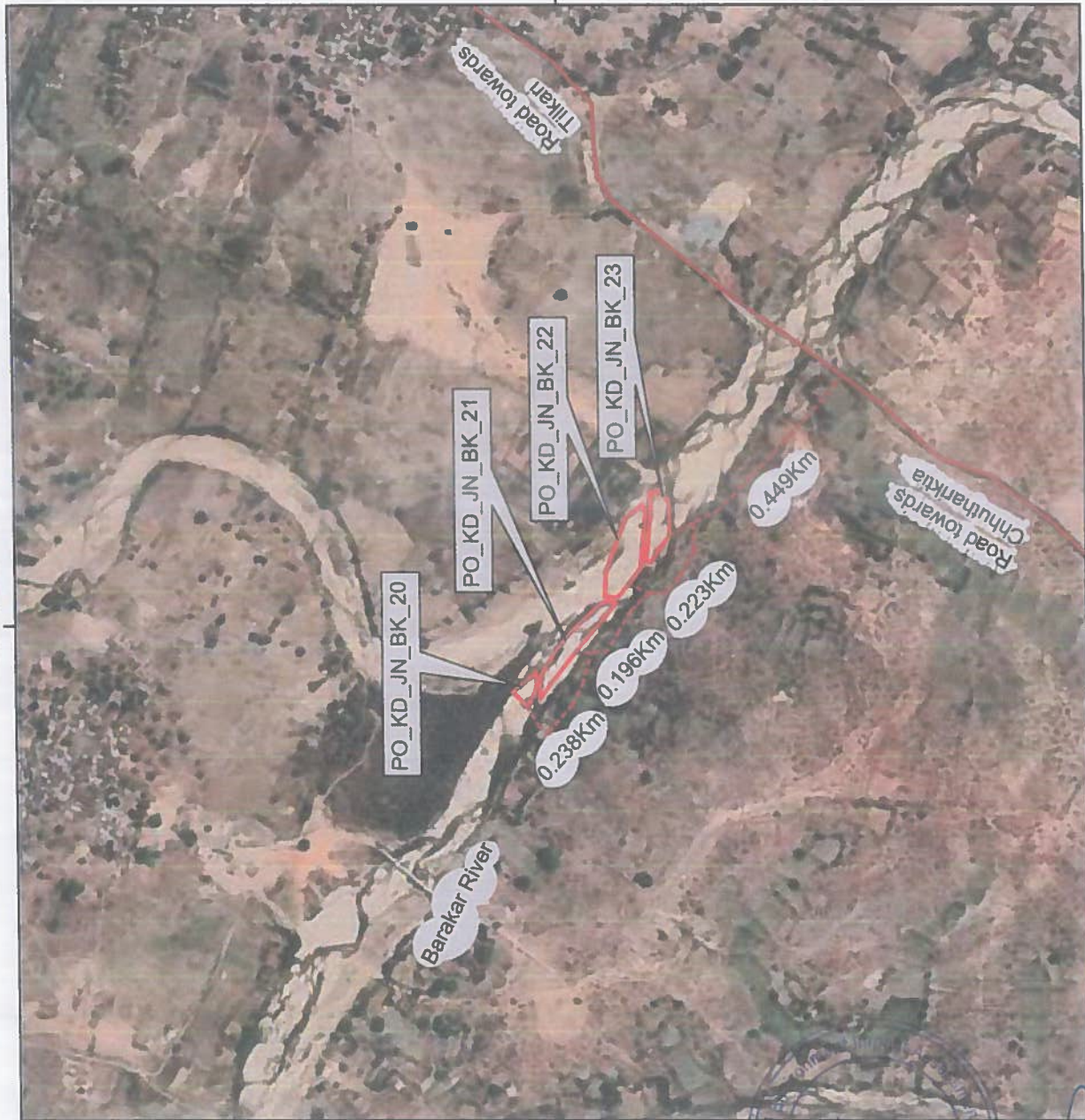
Source: Google Earth Image

Graphical Scale:
0 250 500M.

R



24°19'56.76"N



85°39'43.17"E

24°19'56.36"N



HAUL ROAD MAP OF THE PROJECT SITE

Legend



Project Site



Haul Road



Metalled Road

Project: PO_KD_JN_BK_20
PO_KD_JN_BK_21
PO_KD_JN_BK_22
PO_KD_JN_BK_23
Barakar River
Dist-Kodarma

Source: Google Earth Image

Graphical Scale:



24°19'4.79"N



85°41'0.96"E



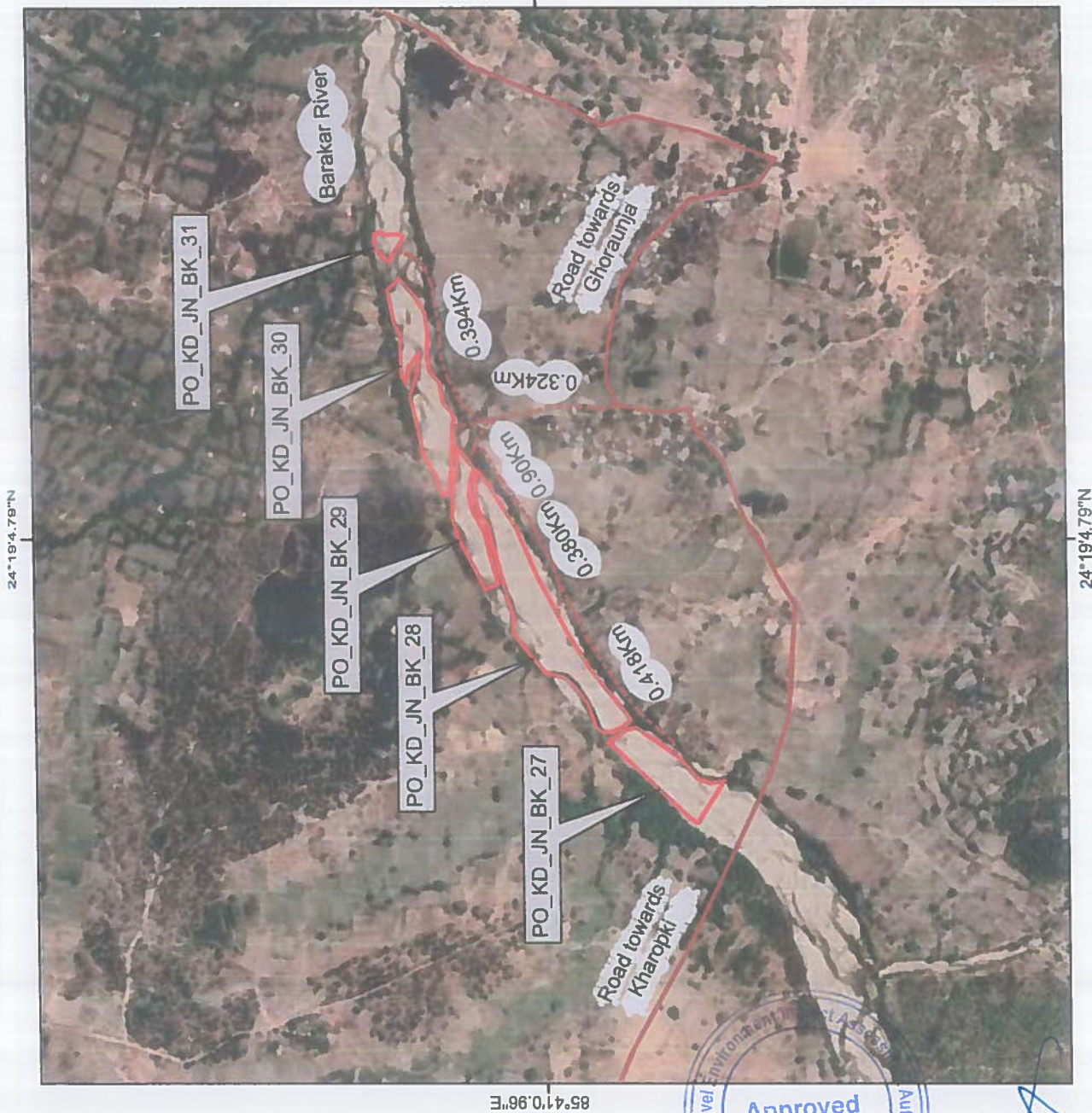
HAUL ROAD MAP OF THE PROJECT SITE

- Legend
- Project Site
 - Haul Road
 - Metalled Road

Project: PO_KD_JN_BK_26
Barakar River
Dist-Kodarma

Source: Google Earth Image

Graphical Scale:
0 50 100 200 300 400 500M



24°17'8.26"N



85°44'41.23"E



HAUL ROAD MAP OF THE PROJECT SITE

Legend



Project Site



Houli Road



Metalled Road

Project: PO_KD_JN_BK_34
Barakar River
Dist-Kodarma

Source: Google Earth Image

Graphical Scale:



24°17'8.26"N



24°17'8.26"N



HAUL ROAD MAP OF THE PROJECT SITE

Legend



Project Site



Haul Road



Metalled Road

Project: PO_KD_JN_BK_35
PO_KD_JN_BK_36
Barakar River
Dist-Kodarma

Source: Google Earth Image

Graphical Scale:



24°18'17.94"N



24°18'17.94"N

85°46'11.99"E



HAUL ROAD MAP OF THE PROJECT SITE

- Legend
- Project Site
 - Houl Road
 - Metalled Road

Project: PO_KD_MC_BK_39
Barakar River
Dist-Kodarma

Source: Google Earth Image



24°22'6.28"N



85°31'30.85"E



HAUL ROAD MAP OF THE PROJECT SITE

Legend



Project Site



Haul Road



Metalled Road

Project: PO_KD_CD_DD_01

PO_KD_CD_DD_02

PO_KD_CD_DD_03

PO_KD_CD_DD_04

PO_KD_CD_DD_05

PO_KD_CD_DD_06

Dudhi River

Dist-Kodarma

Source: Google Earth Image

Graphical Scale:



24°22'6.28"N



24°22'6.28"N

85°31'30.85"E



HAUL ROAD MAP OF THE PROJECT SITE

Legend



Project Site



Haul Road



Metalled Road

Project: PO_KD_CD_DD_10
PO_KD_CD_DD_11
Dudhi River
Dist-Kodarma

Source: Google Earth Image

Graphical Scale:





HAUL ROAD MAP OF THE PROJECT SITE

- Legend
- Project Site
 - Haul Road
 - Metalled Road

Project: PO_KD_JN_AK_03
PO_KD_JN_AK_04
Akto River
Dist-Kodarma

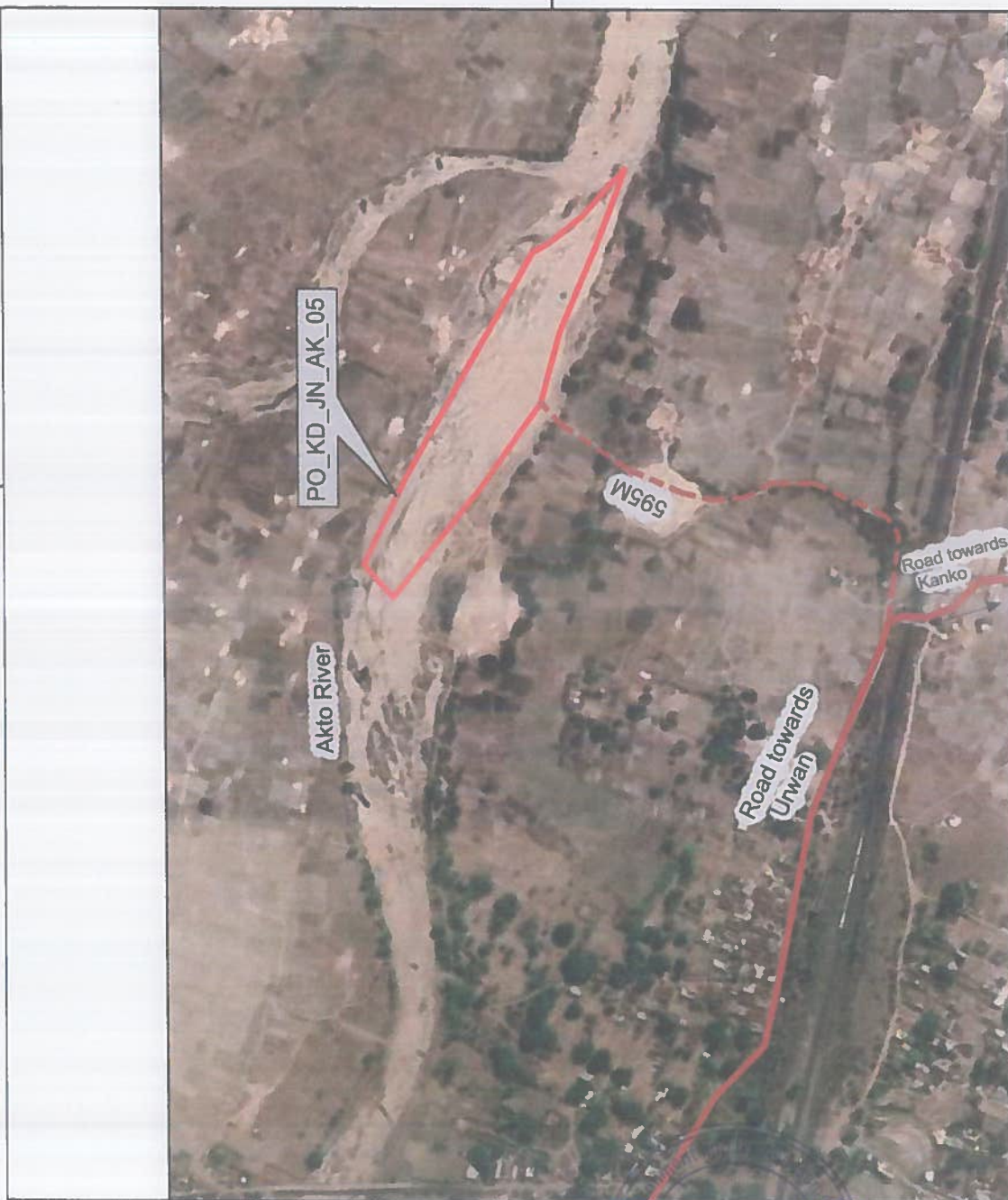
Source: Google Earth Image



85°38'12.46"E



24°21'1.44"N



85°39'43.2"E



Jharkhand, Ranchi

24°21'1.44"N



HAUL ROAD MAP OF THE PROJECT SITE

Legend

- Project Site
- Haul Road
- Metalled Road

Project: PO_KD_JN_AK_05
Akto River
Dist-Kodarma

Source: Google Earth Image

Graphical Scale:



24°20'9.88"N



85°40'22.06"E

24°20'9.68"N



HAUL ROAD MAP OF THE PROJECT SITE

- Legend
- Project Site
 - Houl Road
 - Metalled Road

Project: PO_KD_JN_AK_06
PO_KD_JN_AK_07
PO_KD_JN_AK_08
PO_KD_JN_AK_09
PO_KD_JN_AK_10
PO_KD_JN_AK_11
Akto River
Dist-Kodarma

Source: Google Earth Image

Graphical Scale:



24°22'19.07"N



85°44'28.34"E

24°22'19.07"N



HAUL ROAD MAP OF THE PROJECT SITE

Legend

- Project Site
- Haul Road
- Metalled Road

Project: PO_KD_DC_KS_01
PO_KD_DC_KS_02
PO_KD_JN_KS_03
Keso River
Dist-Kodarma

Source: Google Earth Image

Graphical Scale:



24°21'40.13"N

85°44'41.25"E



HAUL ROAD MAP OF THE PROJECT SITE

Legend

- Project Site
- Haul Road
- Metalled Road

Project: PO_KD_JN_KS_04
PO_KD_JN_KS_05
PO_KD_JN_KS_06
PO_KD_JN_KS_07
PO_KD_JN_KS_08
PO_KD_MC_KS_09
PO_KD_MC_KS_10
PO_KD_MC_KS_11
PO_KD_JN_KS_12
PO_KD_JN_KS_13
Keso River
Dist-Kodarma

Source: Google Earth Image

Graphical Scale:



24°19'4.27"N



85°45'46.38"E



HAUL ROAD MAP OF THE PROJECT SITE

Legend



Project Site



Haul Road



Metalled Road

Project: PO_KD_JN_KS_17
PO_KD_JN_KS_18
PO_KD_JN_KS_19
Keso River
Dist-Kodarma

Source: Google Earth Image

Graphical Scale:



24°20'9.68"N



85°40'22.06"E



HAUL ROAD MAP OF THE PROJECT SITE

Legend



Project Site



Houli Road



Metalled Road

Project: PO_KD_KD_DJ_01
Dhanarjay River
Dist-Kodarma

Source: Google Earth Image

Graphical Scale:



24°34'38.05"N



85°34'58.11"E

Approved



HAUL ROAD MAP OF THE PROJECT SITE

Legend



Project Site



Haul Road



Metalled Road

Project: PO_KD_KD_DJ_05
PO_KD_KD_DJ_06
PO_KD_KD_DJ_07
PO_KD_KD_DJ_08
PO_KD_KD_DJ_09
Dhanarjay River
Dist-Kodarma

Source: Google Earth Image

Graphical Scale:



24°34'38.05"N

24°35'03.91"N



85°34'58.31"E

24°35'03.91"N



HAUL ROAD MAP OF THE PROJECT SITE

- Legend
- Project Site
 - Haul Road
 - Metalled Road

Project: PO_KD_KD_DJ_11
PO_KD_KD_DJ_12
Dhanarjay River
Dist-Kodarma

Source: Google Earth Image

Graphical Scale:
0 50 100 200 300 400 500M

24°47'5.89"N



85°43'47.69"E

24°47'5.89"N



HAUL ROAD MAP OF THE PROJECT SITE

Legend



Project Site



Haul Road



Metalled Road

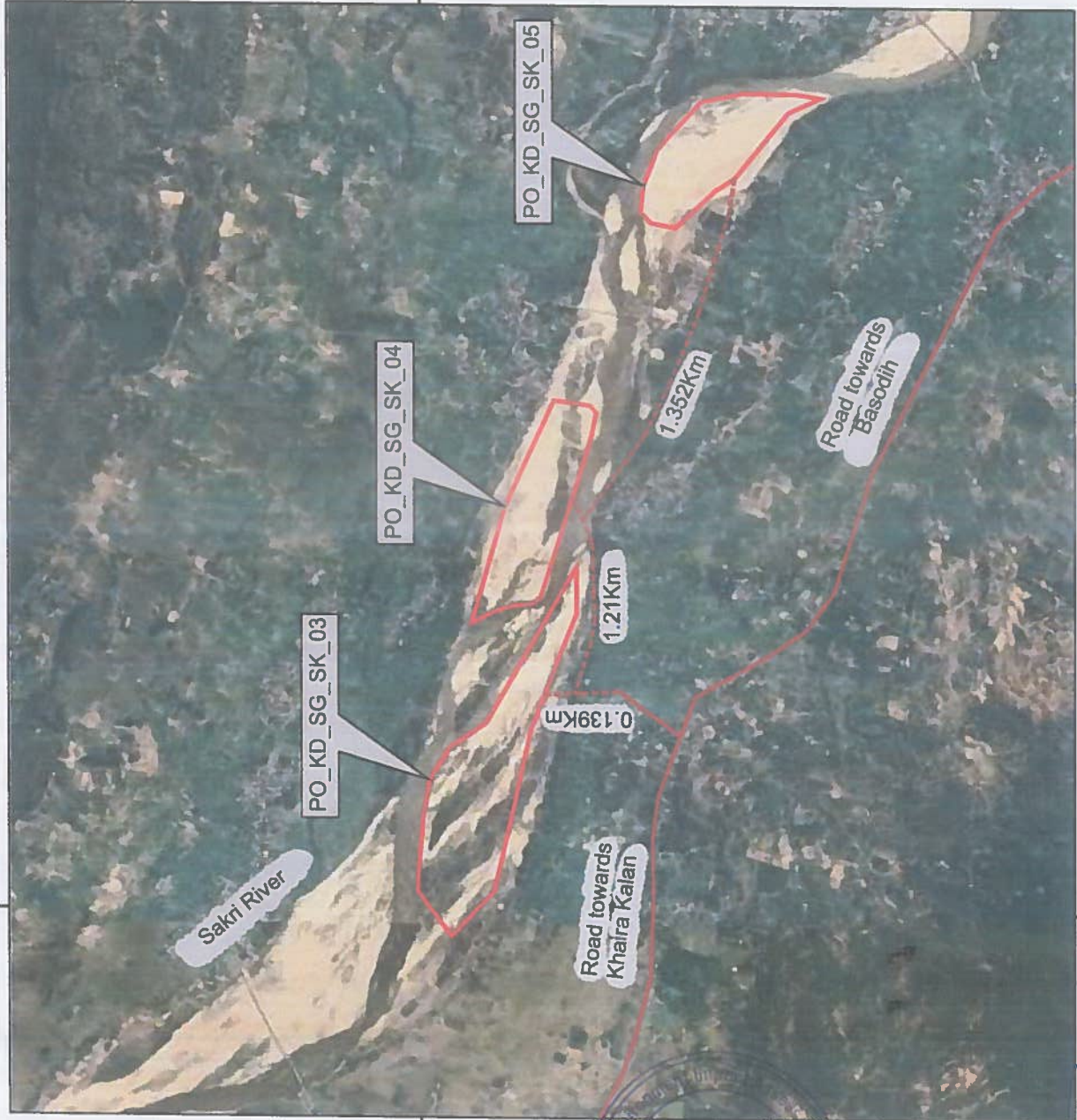
Project: PO_KD_SG_SK_01
PO_KD_SG_SK_02
Sakri River
Dist-Kodarma

Source: Google Earth Image

Graphical Scale:



24°45'54.26"N



85°45'18.39"E

85°45'18.39"E



HAUL ROAD MAP OF THE PROJECT SITE

Legend

-  Project Site
-  Haul Road
-  Metalled Road

Project: PO_KD_SG_SK_03
PO_KD_SG_SK_04
PO_KD_SG_SK_05
Sakri River
Dist-Kodarma

Source: Google Earth Image

Graphical Scale:



ANNEXURE- J

(Undertaking regarding presence of aquatic animal
certified by concerned Govt. Departments like
Zoological survey of India.)

झारखण्ड सरकार
खान एवं भूतत्व विभाग
जिला भूतात्विक कार्यालय, कोडरमा।
Email id:- astdirgeo-koderma@jharkhandmail.gov.in

पत्रांक:-स०नि०भू०- 86/2022

36

कोडरमा / दिनांक:- 11/2/23

प्रेषक,
कुणाल कौशल
सहायक निदेशक, भूतत्व,

सेवा में,
जिला खनन पदाधिकारी,
कोडरमा।

विषय:-जलीय जीवों के संबंध में सूचना एकत्र करने के संबंध में।

प्रसंग:- आपका ज्ञापांक 237/एम0, कोडरमा, दिनांक:-03/02/2023

महाशय,

उपर्युक्त प्रसंगाधीन विषय के संबंध में कहना है कि कोडरमा जिलार्तगत सकरी, केसो, अक्टो एवं बराकर नदी में प्रस्तावित बालू घाटों के निकट जलीय जीवों की उपस्थिती से संबंधित जिला मत्स्य पदाधिकारी, कोडरमा से प्राप्त सूचना इस पत्र के साथ संलग्न कर आवश्यक कार्रवाई हेतु भेजी जा रही है।

कृपया सूचनार्थ प्रेषित।

अनुलग्नक:-यथोक्त

विश्वासभाजन
11/2/23
(कुणाल कौशल)
सहायक निदेशक, भूतत्व,
जिला भूतात्विक कार्यालय,
कोडरमा



कार्यालय :- जिला मत्स्य पदाधिकारी, कोडरमा।

पत्रांक 80/मत्स्य

प्रेषक,

जिला मत्स्य पदाधिकारी,
कोडरमा।

सेवा में,

कुणाल कुमार,
सहायक निदेशक, भूतत्व,
जिला भूतात्विक कार्यालय,
कोडरमा।

कोडरमा/दिनांक 01/02/2023

विषय :- झारखण्ड राज्य के कोडरमा जिलान्तर्गत सकरी, केसो, अक्तो एवं बराकर नदी में प्रस्तावित बालू घाटों के निकट जलीय जीवों की उपस्थिति से संबंधित विवरणी के संबंध में।

प्रसंग :- भवदीय पत्रांक स0नि0भू0-86/2022 23, दिनांक 01.02.2023

महाशय,

उपर्युक्त विषय एवं प्रसंग पत्र के संबंध में सूचित करना है, कि कोडरमा जिला अन्तर्गत अवस्थित किसी भी बालू घाटों में मत्स्य विभाग, कोडरमा द्वारा किसी भी योजना का संचालन नहीं किया जाता है। प्रसंगाधीन पत्र में वर्णित बालू घाटों में, जहाँ पानी 0.6 से 01, फीट से कम है, वहाँ मत्स्य जीवों की उपस्थिति नगण्य होती है।

सादर सूचनार्थ एवं अग्रतर कार्रवाई हेतु प्रेषित।

विश्वासभाजन

01.02.23
जिला मत्स्य पदाधिकारी,
कोडरमा।



ANNEXURE – K

(Pre- Monsoon data provided by District mining office,
Koderma)

District Mining Office, Koderma

Pre monsoon Koderma				
SL No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Volume in M. Cum
Estimation of Sand Resources in Pre monsoon period of Barakar River				
1	PRE_KD_CD_BK_01	365	90757.15089	0.182
2	PRE_KD_JN_BK_02	366	35529.15177	0.071
3	PRE_KD_JN_BK_03	366	10954.05792	0.022
4	PRE_KD_JN_BK_04	365	13492.37544	0.027
5	PRE_KD_JN_BK_05	364	56916.75873	0.114
6	PRE_KD_JN_BK_06	365	12609.30644	0.025
7	PRE_KD_JN_BK_07	366	50162.102	0.1
8	PRE_KD_JN_BK_08	364	12141.34576	0.024
9	PRE_KD_JN_BK_09	363	59534.26332	0.119
10	PRE_KD_JN_BK_10	362	26457.37211	0.053
11	PRE_KD_JN_BK_11	359	46892.99868	0.094
12	PRE_KD_JN_BK_12	357	60507.58867	0.121
13	PRE_KD_JN_BK_13	361	20393.06824	0.041
14	PRE_KD_JN_BK_14	360	78300.77292	0.157
15	PRE_KD_JN_BK_15	359	12725.31779	0.025
16	PRE_KD_JN_BK_16	358	15466.06503	0.031
17	PRE_KD_JN_BK_17	357	12973.58422	0.026
18	PRE_KD_JN_BK_18	356	3394.453395	0.007
19	PRE_KD_JN_BK_19	355	15376.19277	0.031
20	PRE_KD_JN_BK_20	359	7785.41197	0.016
21	PRE_KD_JN_BK_21	360	10861.93017	0.022
22	PRE_KD_JN_BK_22	355	11212.17643	0.022
23	PRE_KD_JN_BK_23	356	9231.405389	0.018
24	PRE_KD_JN_BK_24	357	33279.47019	0.067
25	PRE_KD_JN_BK_25	362	10317.06064	0.021
26	PRE_KD_JN_BK_26	360	16169.8292	0.032
27	PRE_KD_JN_BK_27	350	25755.01167	0.052
28	PRE_KD_JN_BK_28	347	52986.47094	0.106
29	PRE_KD_JN_BK_29	348	15705.62398	0.031
30	PRE_KD_JN_BK_30	346	35025.56124	0.07
31	PRE_KD_JN_BK_31	352	37603.11208	0.075
32	PRE_KD_JN_BK_32	352	10423.93433	0.021
33	PRE_KD_JN_BK_33	349	16911.05628	0.034
34	PRE_KD_JN_BK_34	351	16153.08719	0.032
35	PRE_KD_JN_BK_35	346	9320.9089	0.019
36	PRE_KD_JN_BK_36	348	21295.61081	0.043
37	PRE_KD_JN_BK_37	344	9887.927429	0.02
38	PRE_KD_JN_BK_38	349	39078.51101	0.078
39	PRE_KD_MC_BK_39	344	76935.32784	0.154
40	PRE_KD_MC_BK_40	335	3587.374692	0.007
			1104110.725	2.208



S L. No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Volume in M. Cum
16	PRE_KD_JN_KS_16	349	3002.026831	0.006
17	PRE_KD_JN_KS_17	347	71190.09226	0.142
18	PRE_KD_JN_KS_18	344	39226.95515	0.078
19	PRE_KD_JN_KS_19	347	27730.34025	0.055
20	PRE_KD_JN_KS_20	348	1977.817938	0.004
21	PRE_KD_JN_KS_21	346	9892.048899	0.02
			493525.04	0.99
Estimation of Sand Resources in Pre monsoon period of Dhanarjay River				
1	PRE_KD_KD_DJ_01	199	58896.47445	0.059
2	PRE_KD_KD_DJ_02	200	11831.96667	0.012
3	PRE_KD_KD_DJ_03	198	29652.72866	0.03
4	PRE_KD_KD_DJ_04	203	9839.017691	0.01
5	PRE_KD_KD_DJ_05	205	35827.49215	0.036
6	PRE_KD_KD_DJ_06	207	13979.9482	0.014
7	PRE_KD_KD_DJ_07	208	4964.856223	0.005
8	PRE_KD_KD_DJ_08	211	4114.473904	0.004
9	PRE_KD_KD_DJ_09	207	3510.122376	0.004
10	PRE_KD_KD_DJ_10	203	9583.565477	0.01
11	PRE_KD_KD_DJ_11	201	11332.44688	0.011
12	PRE_KD_KD_DJ_12	204	6282.750772	0.006
			199815.84	0.2
Estimation of Sand Resources in Pre monsoon period of Sakri River				
1	PRE_KD_SG_SK_01	147	871164.7594	1.742
2	PRE_KD_SG_SK_02	146	902081.8541	1.804
3	PRE_KD_SG_SK_03	149	763640.3763	1.527
4	PRE_KD_SG_SK_04	151	543626.1318	1.087
5	PRE_KD_SG_SK_05	156	383734.5941	0.767
6	PRE_KD_SG_SK_06	159	132125.8425	0.264
			3596373.56	7.19

[Signature]
07.11.23
District Mining Officer
Koderma.



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ANNEXURE – L
(Undertaking 9.3)

District Mining Office, Koderma

Undertaking

For Point no. 9.3 of the EMGSM guidelines, 2020 regarding monitoring of mining near inter district or inter-state boundary should be addressed in the final DSR, if applicable. With reference to the CO report, Jainagar, Chandwara, Koderma, Markacho, Satgawan & Dornchanch. (Attached as annexure f), it is verified that none of the identified ghats in the district Koderma is crossing any inter-district or inter-state boundary.

Pran
27.4.23

District Mining Officer

Koderma



Plate A

(Plate showing sandbars in pre-monsoon)

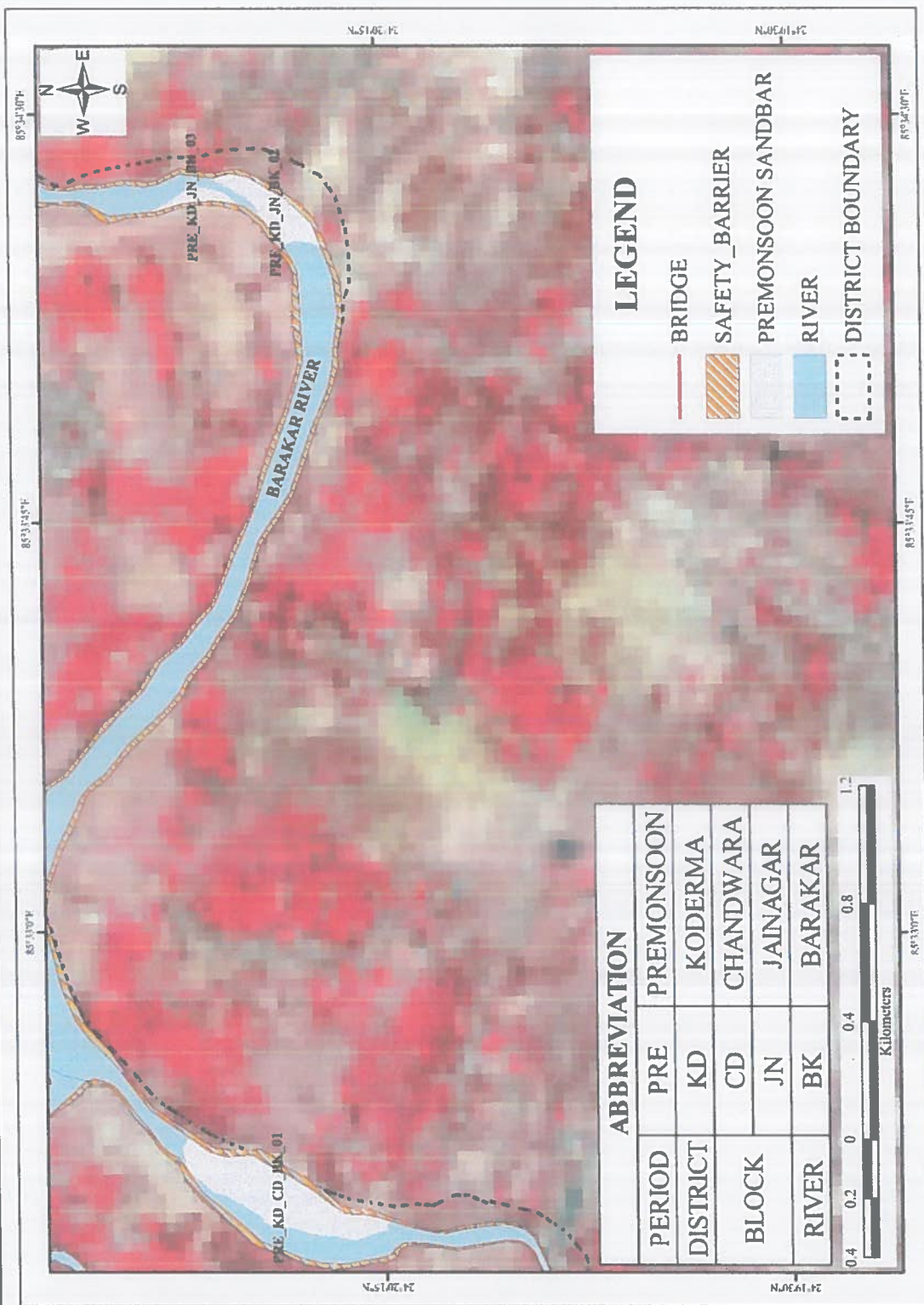


Plate No. A1: Plate showing sandbars in pre-monsoon

District Survey Report
Koderma, Jharkhand

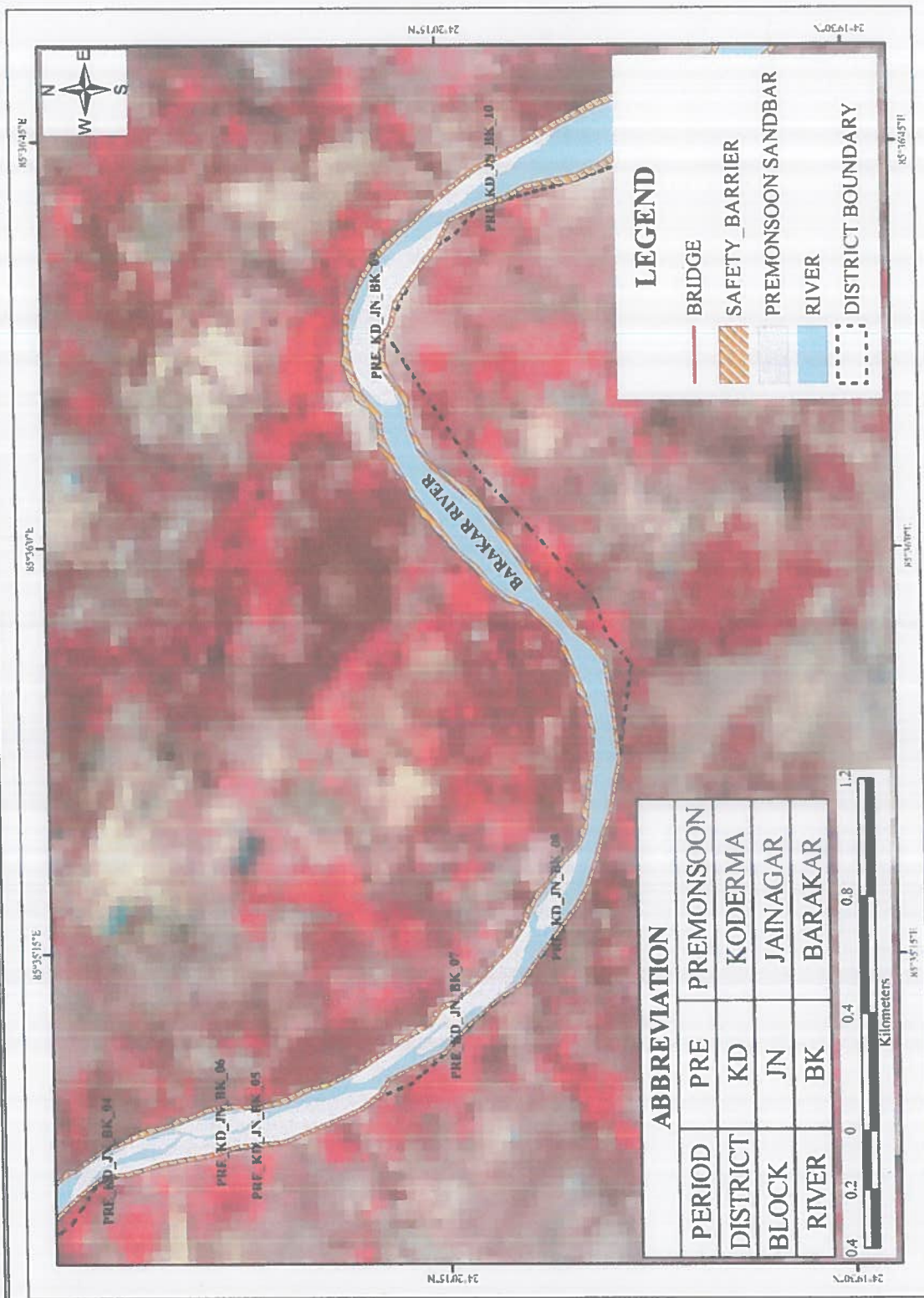


Plate No. A2: Plate showing sandbars in pre-monsoon



District Survey Report
Koderma, Jharkhand

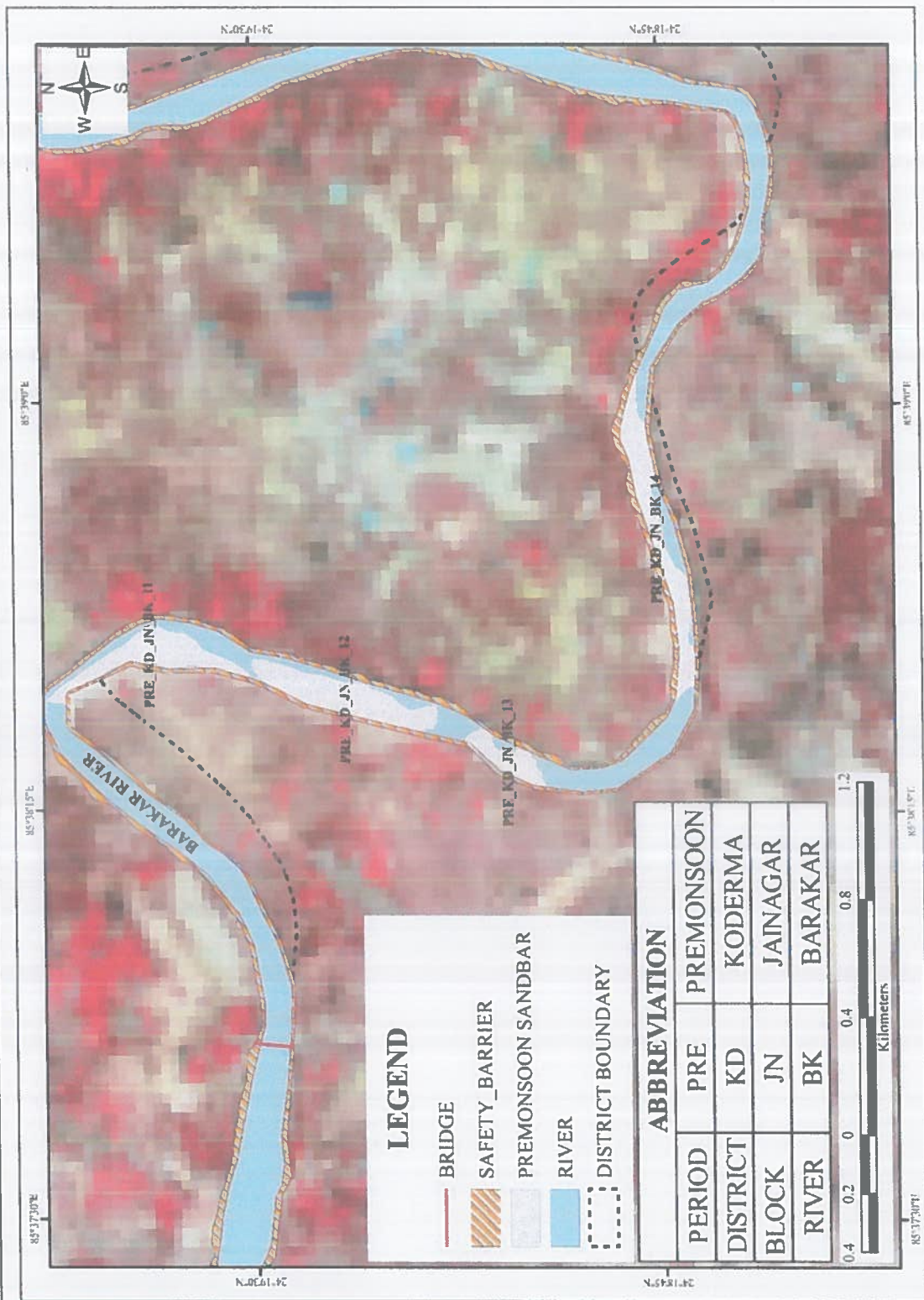


Plate No. A3: Plate showing sandbars in pre-monsoon

District Survey Report
Koderma, Jharkhand

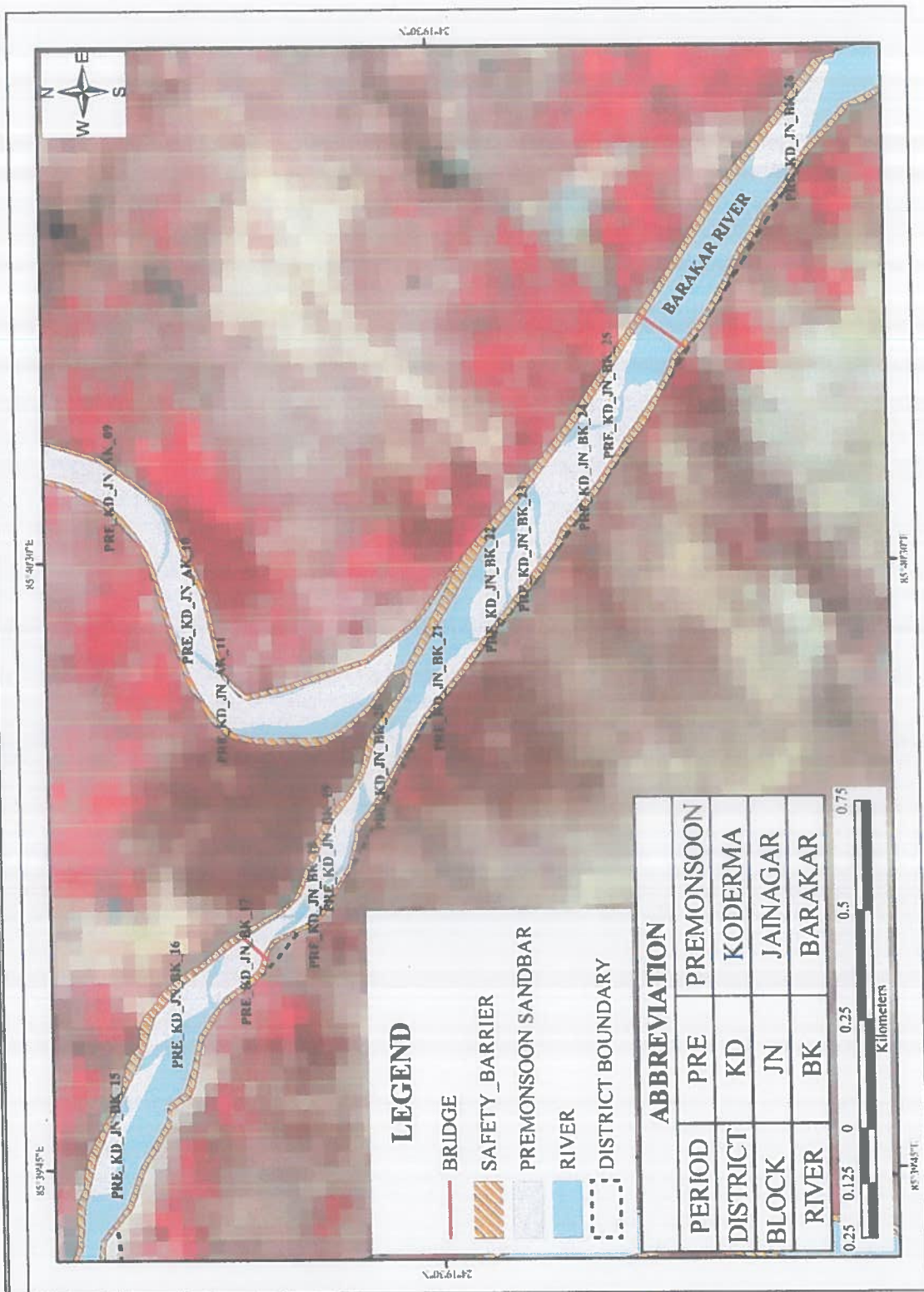


Plate No. A4: Plate showing sandbars in pre-monsoon



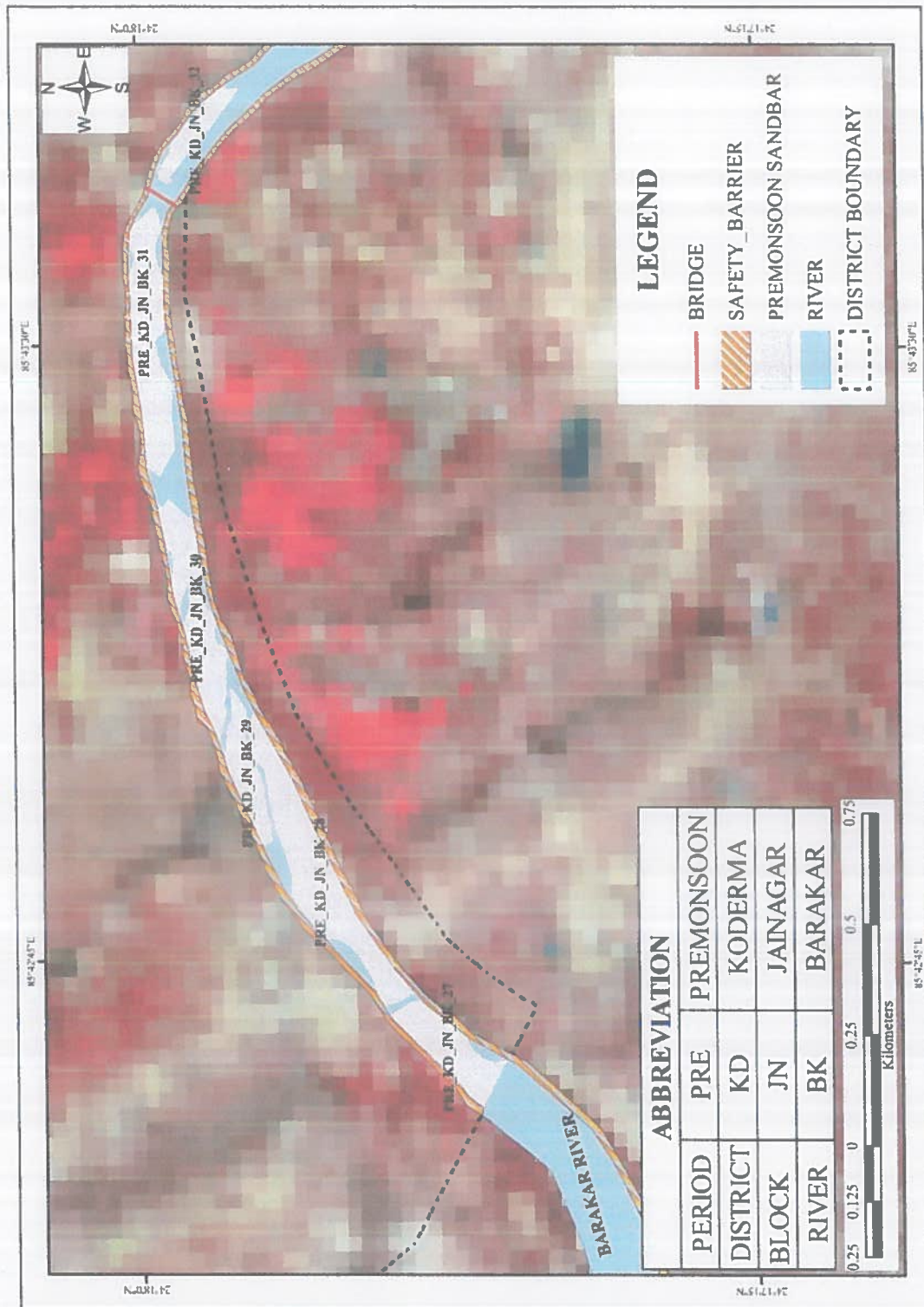


Plate No. A5: Plate showing sandbars in pre-monsoon



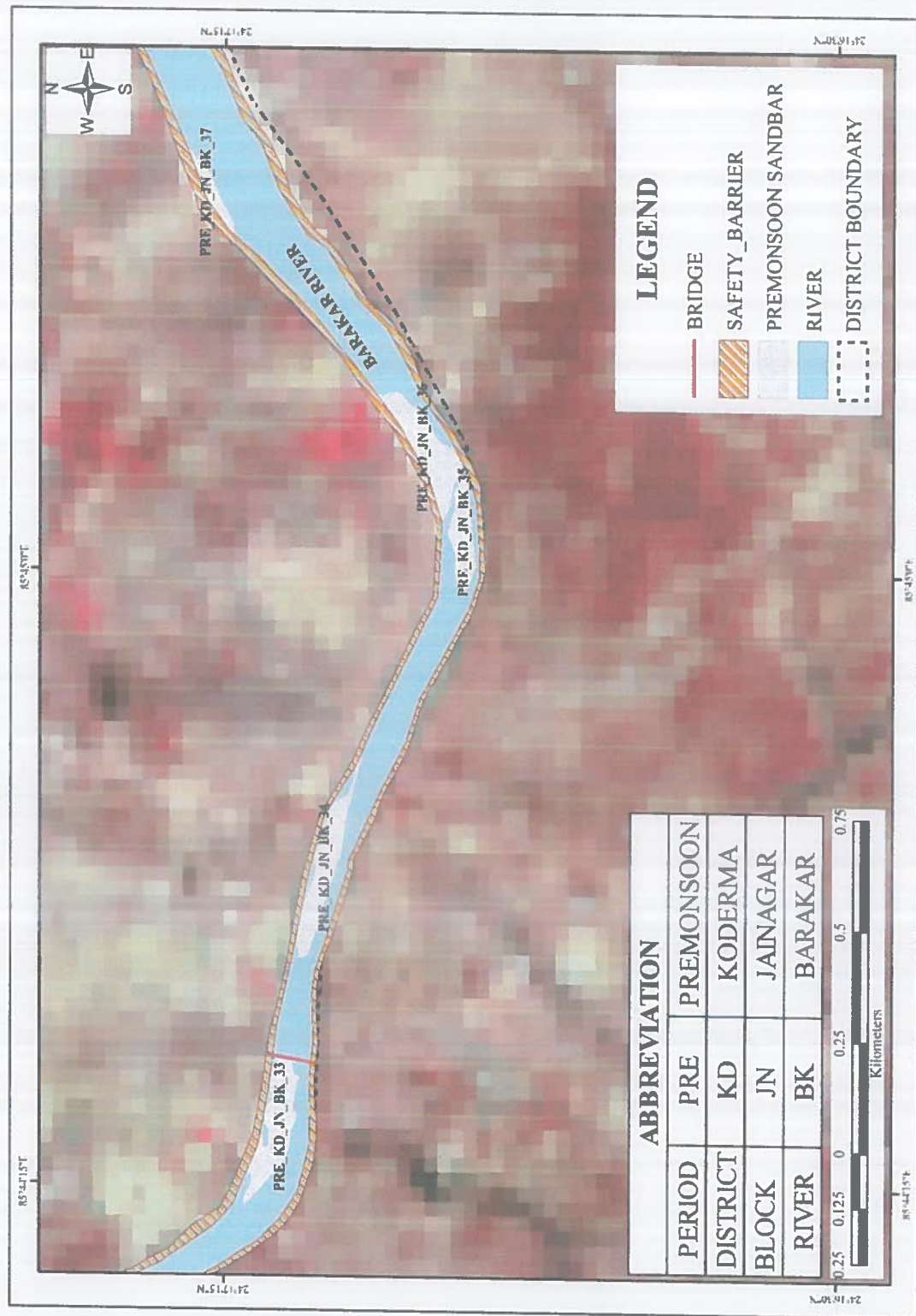


Plate No. A6: Plate showing sandbars in pre-monsoon



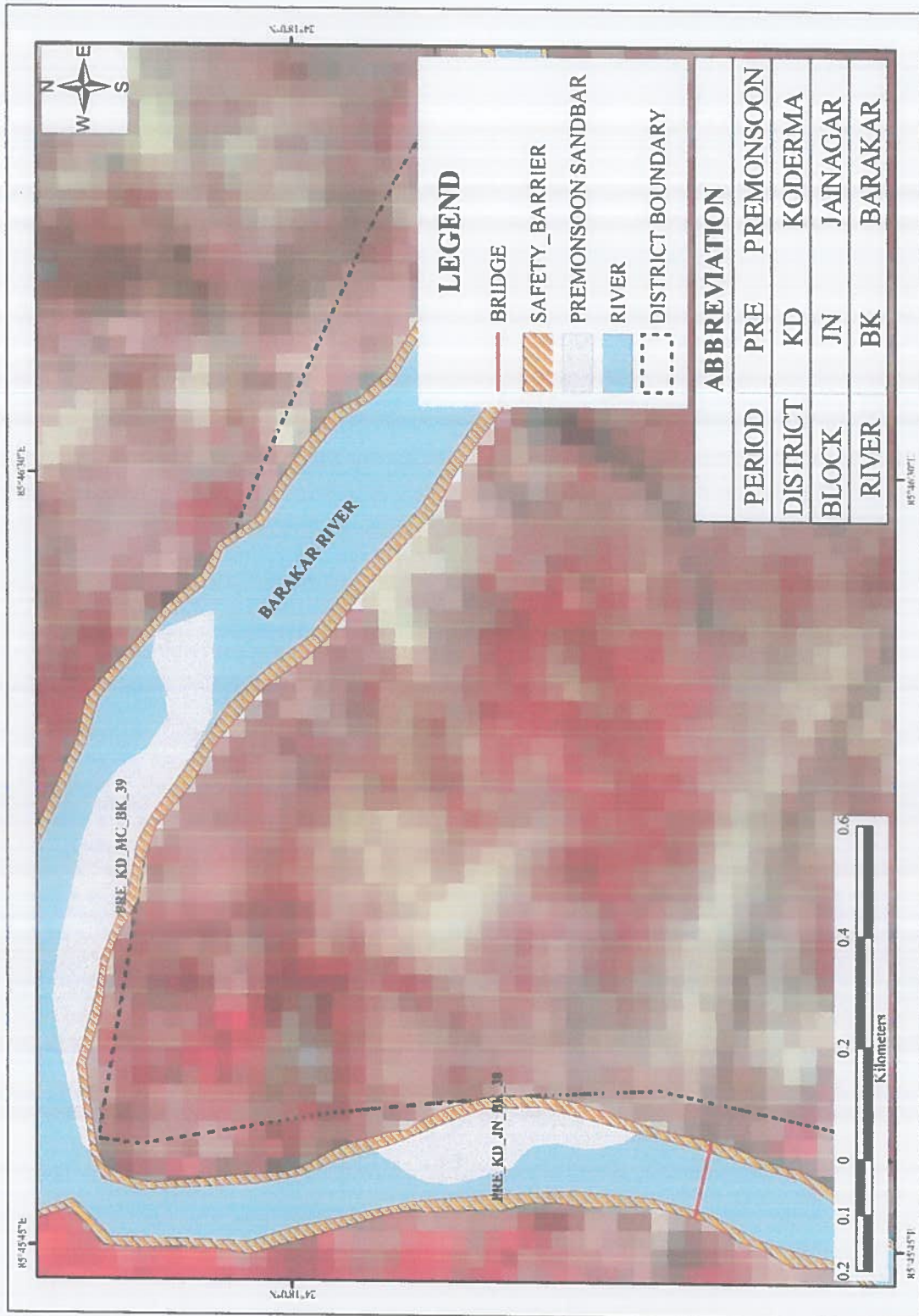


Plate No. A7: Plate showing sandbars in pre-monsoon



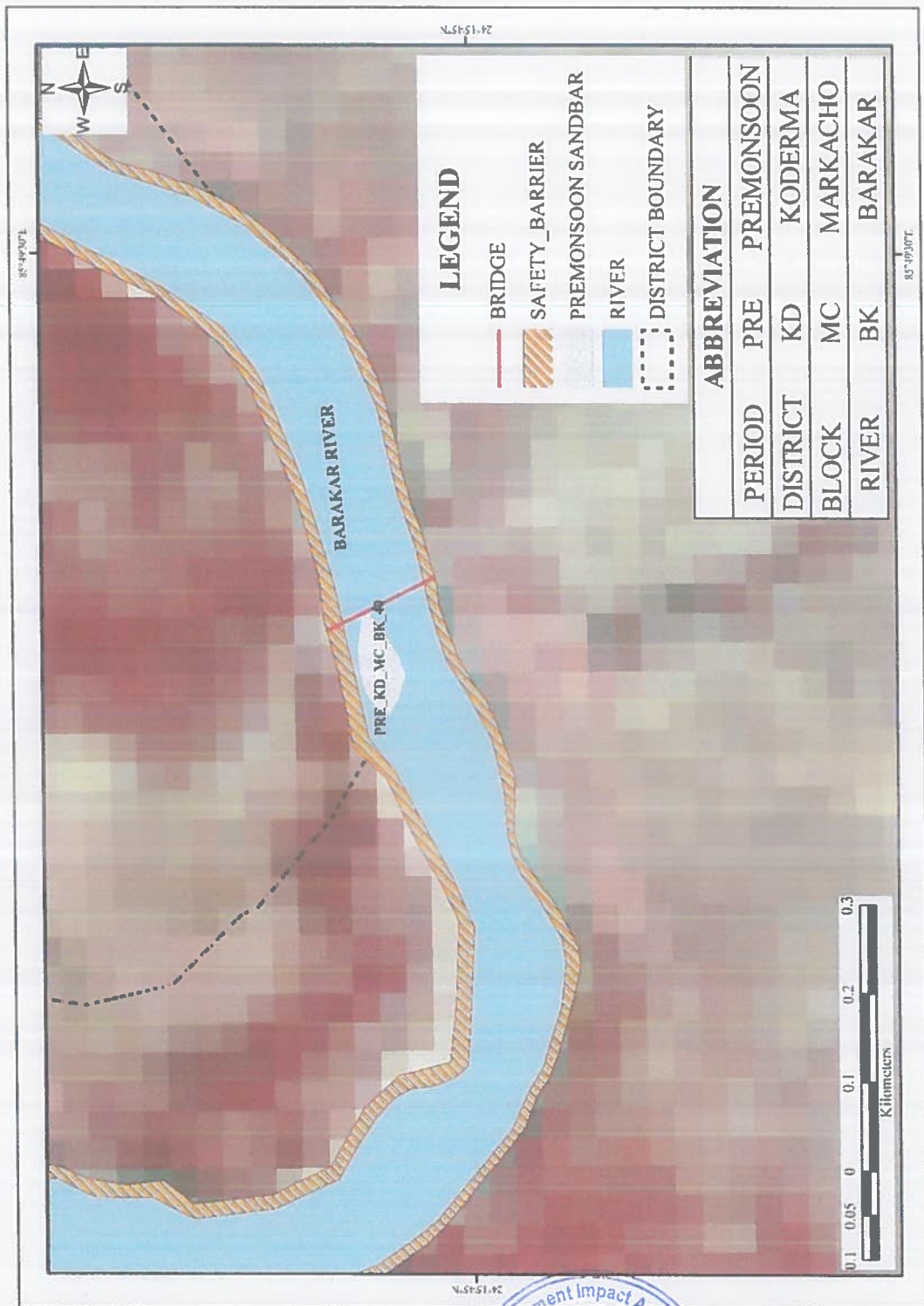


Plate No. A8: Plate showing sandbars in pre-monsoon



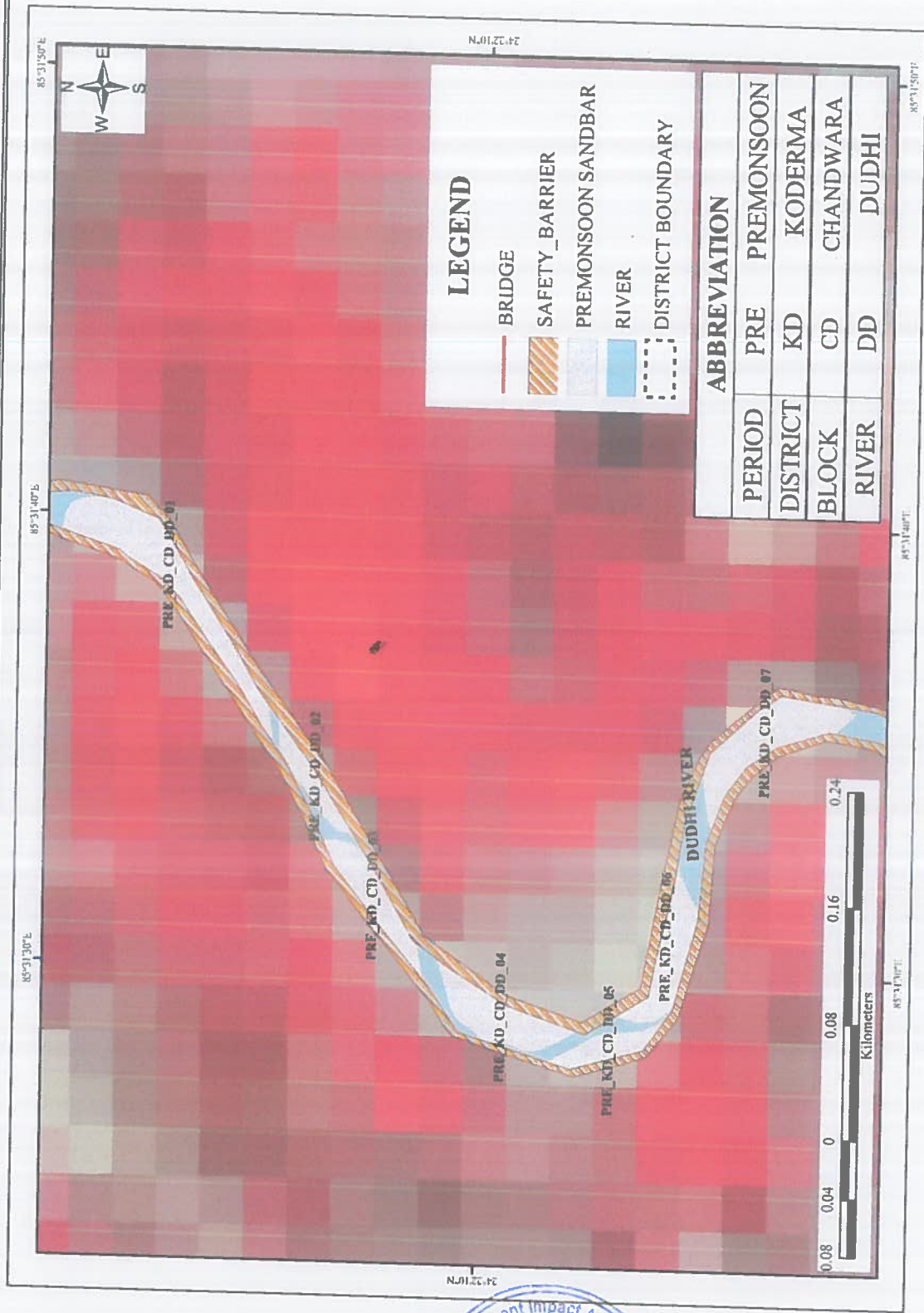


Plate No. A9: Plate showing sandbars in pre-monsoon



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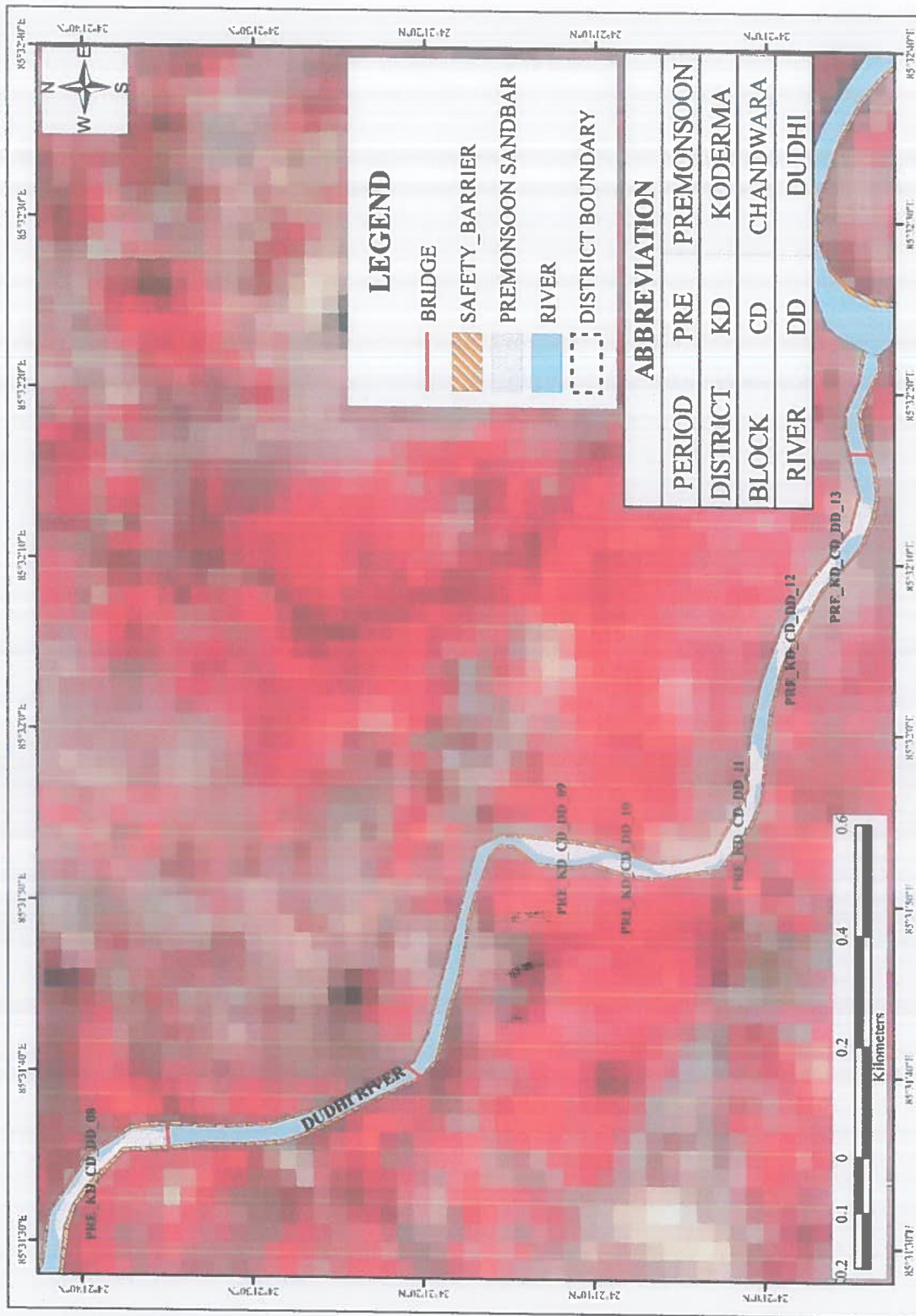


Plate No. A10: Plate showing sandbars in pre-monsoon



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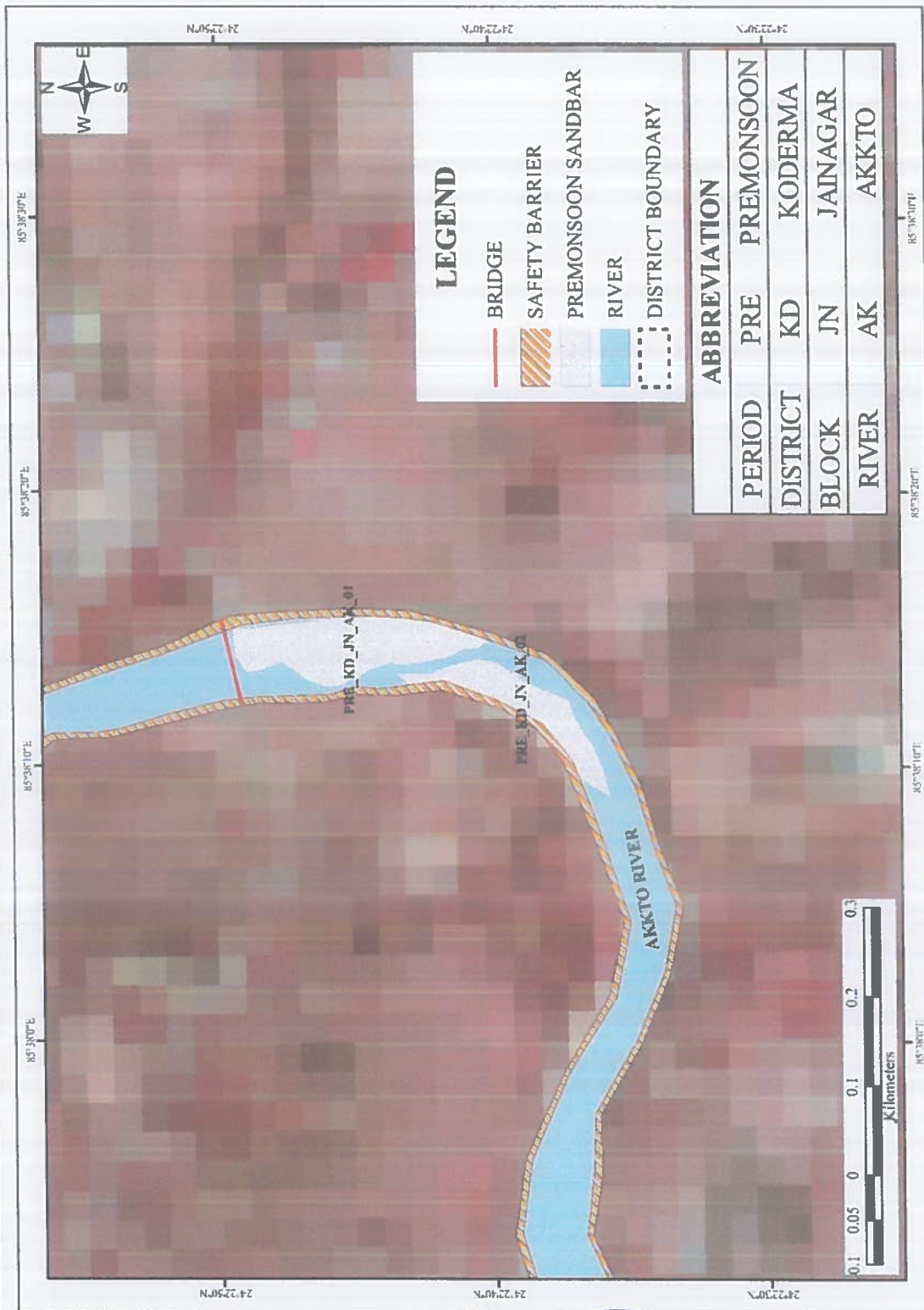


Plate No. A11: Plate showing sandbars in pre-monsoon



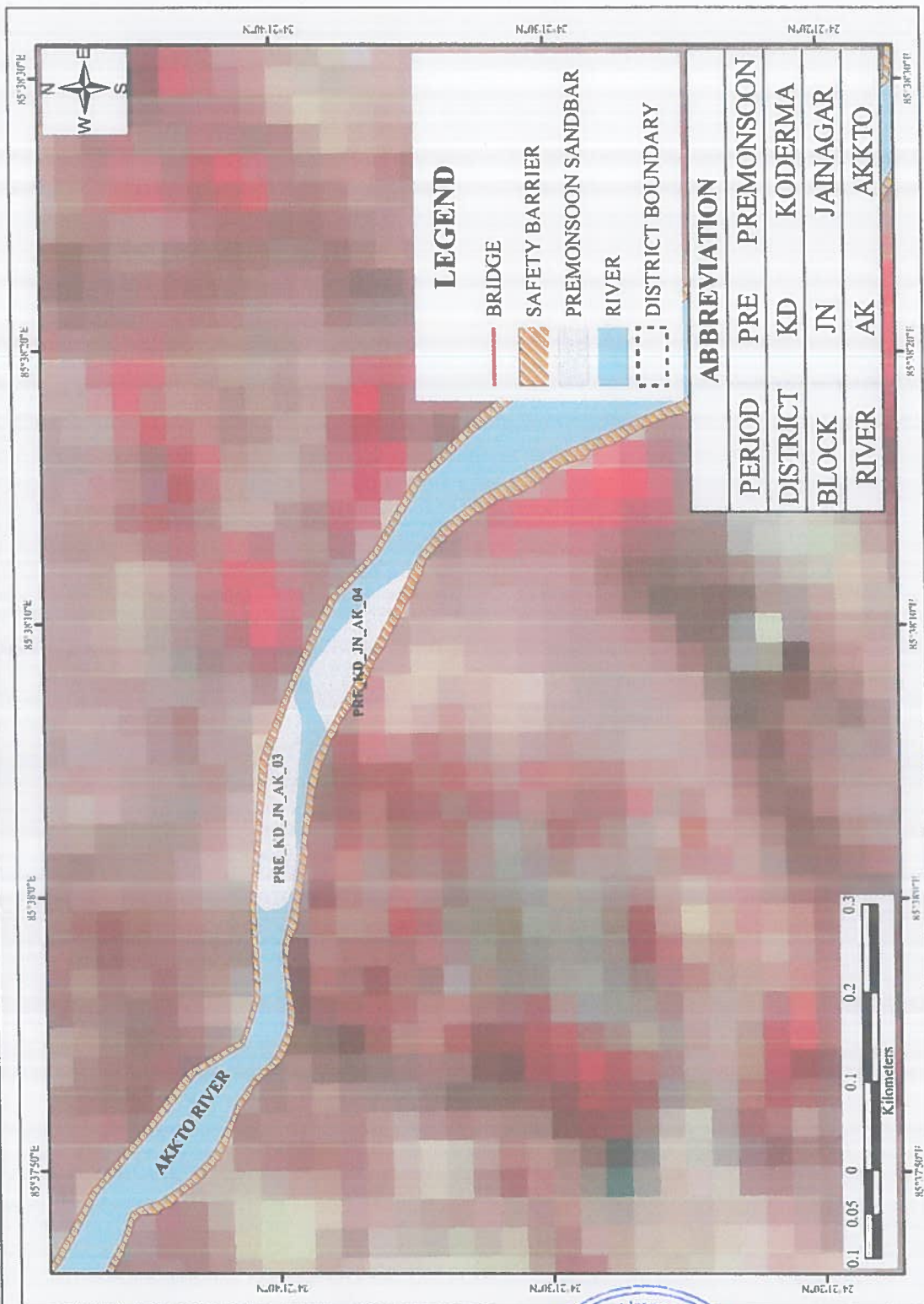


Plate No. A12: Plate showing sandbars in pre-monsoon



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Plate No. A13: Plate showing sandbars in pre-monsoon



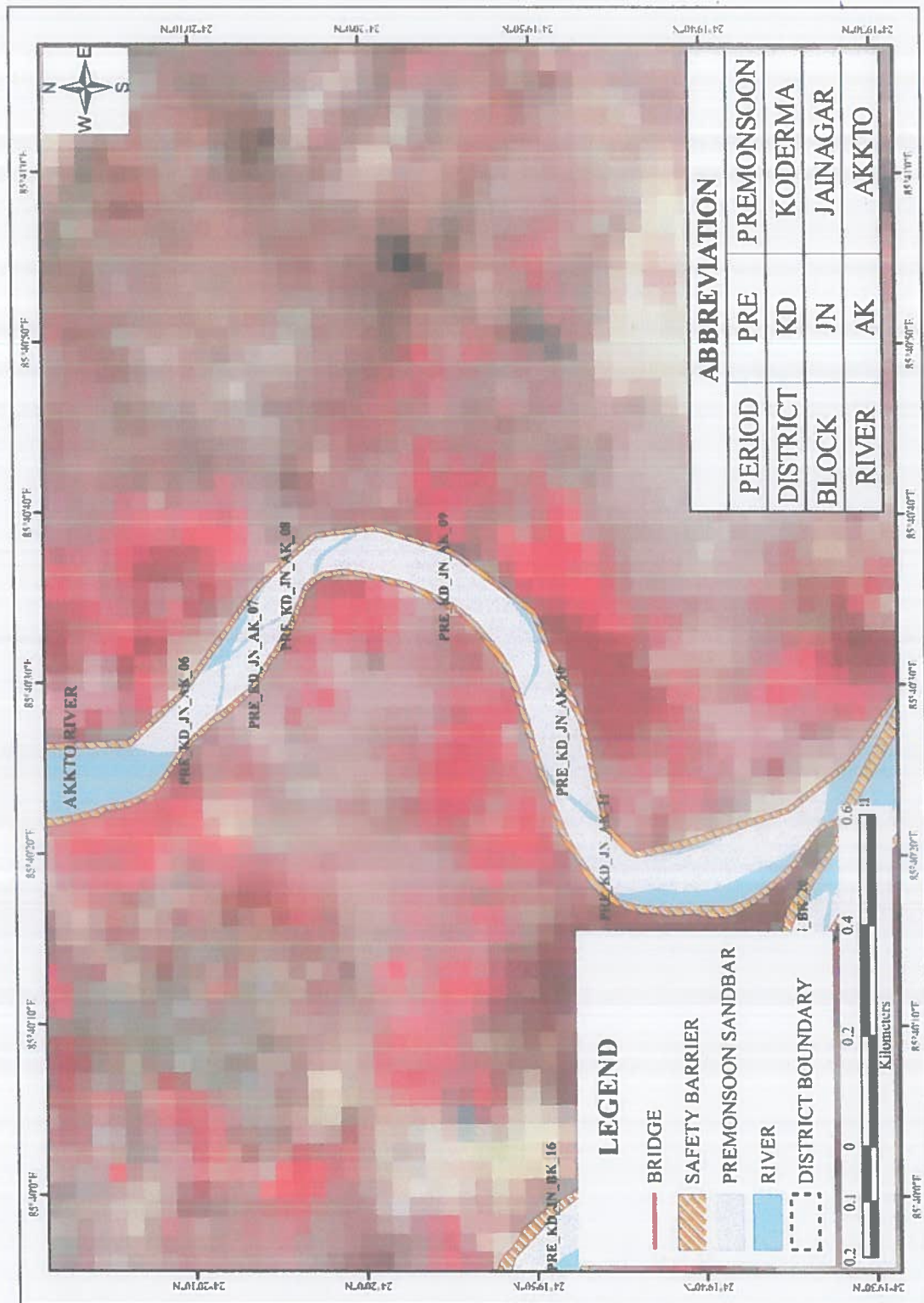


Plate No. A14: Plate showing sandbars in pre-monsoon



District Survey Report
Koderma, Jharkhand

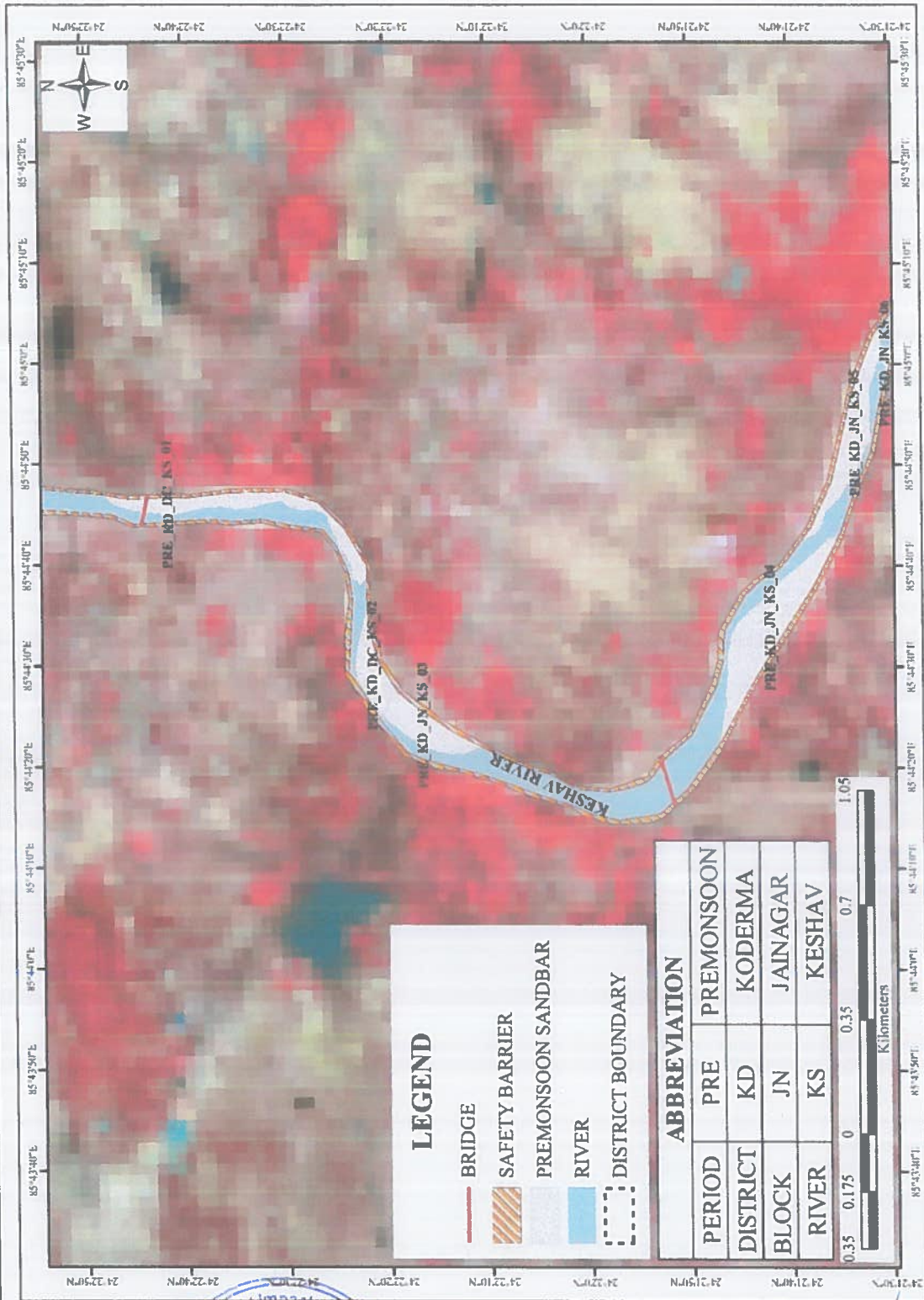


Plate No. A15: Plate showing sandbars in pre-monsoon



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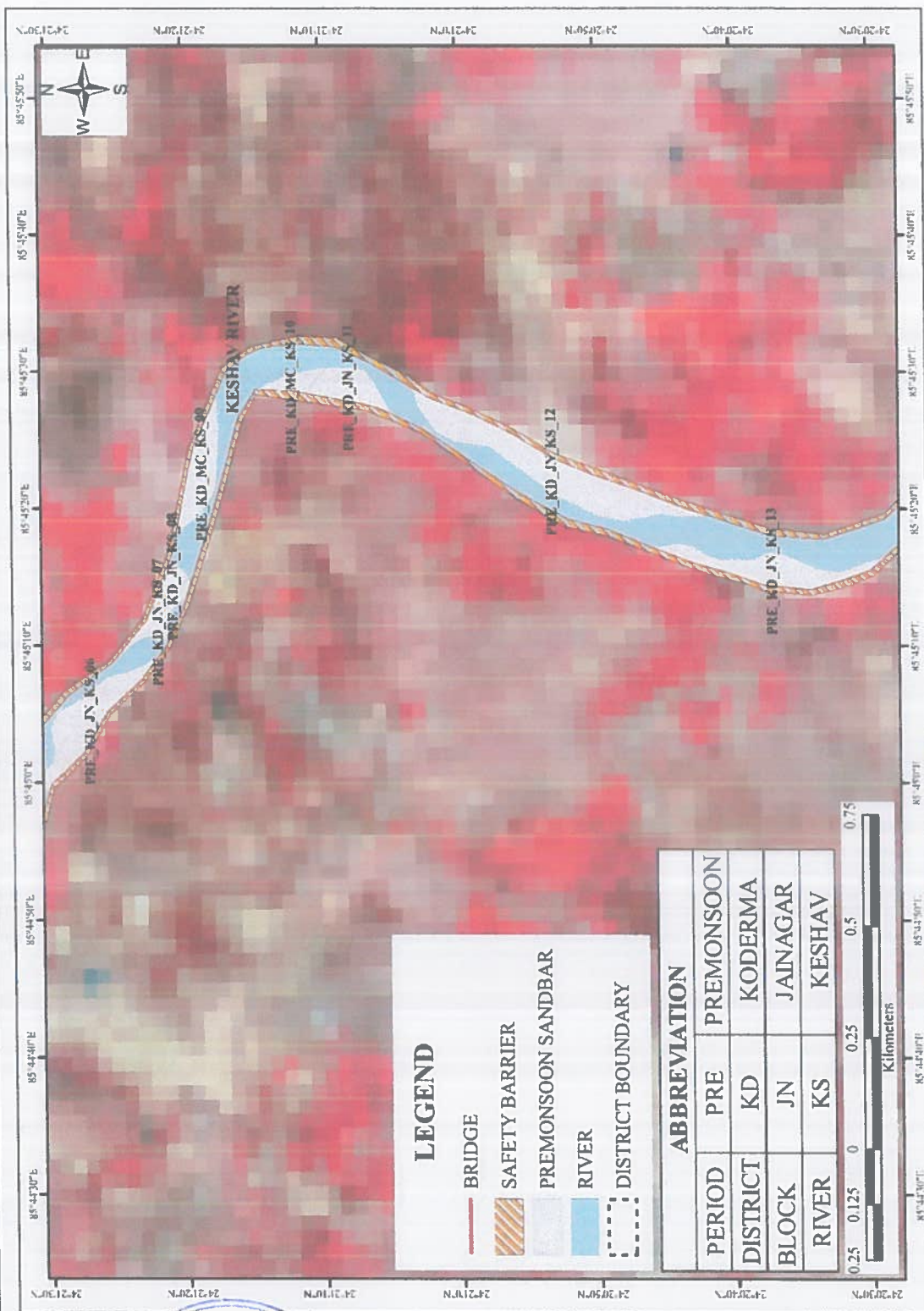


Plate No. A16: Plate showing sandbars in pre-monsoon

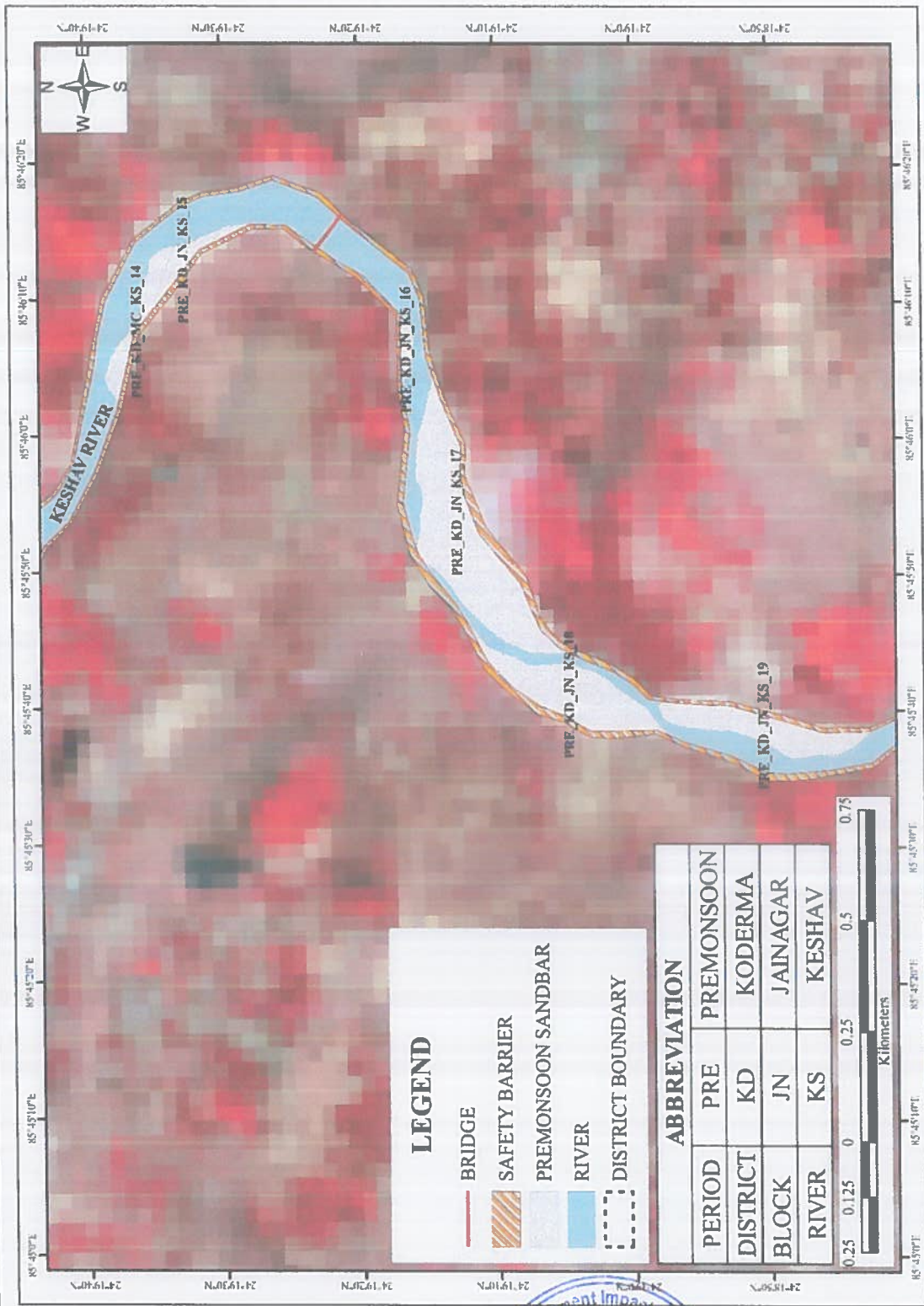


Plate No. A17: Plate showing sandbars in pre-monsoon



District Survey Report
Koderma, Jharkhand



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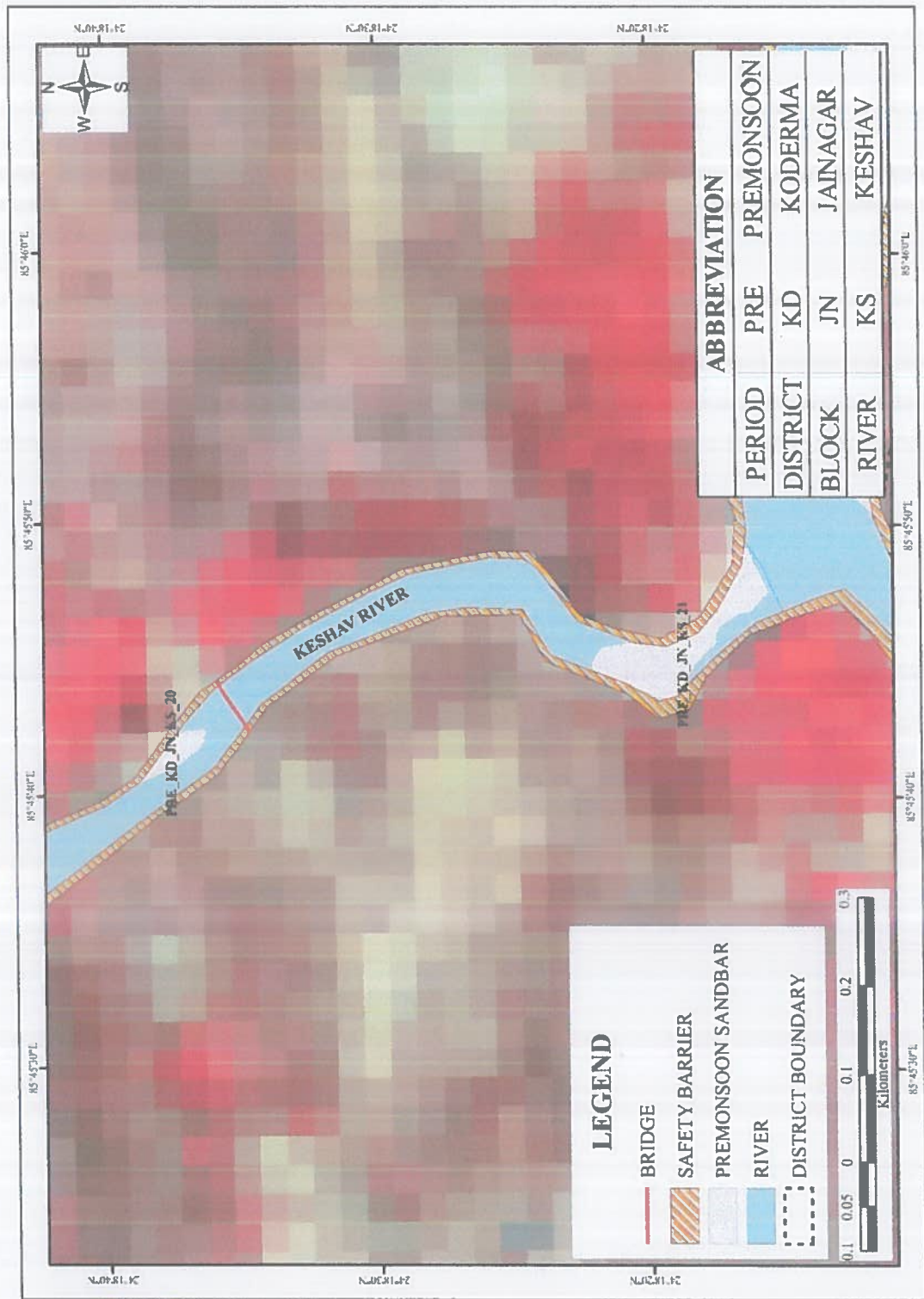


Plate No. A18: Plate showing sandbars in pre-monsoon

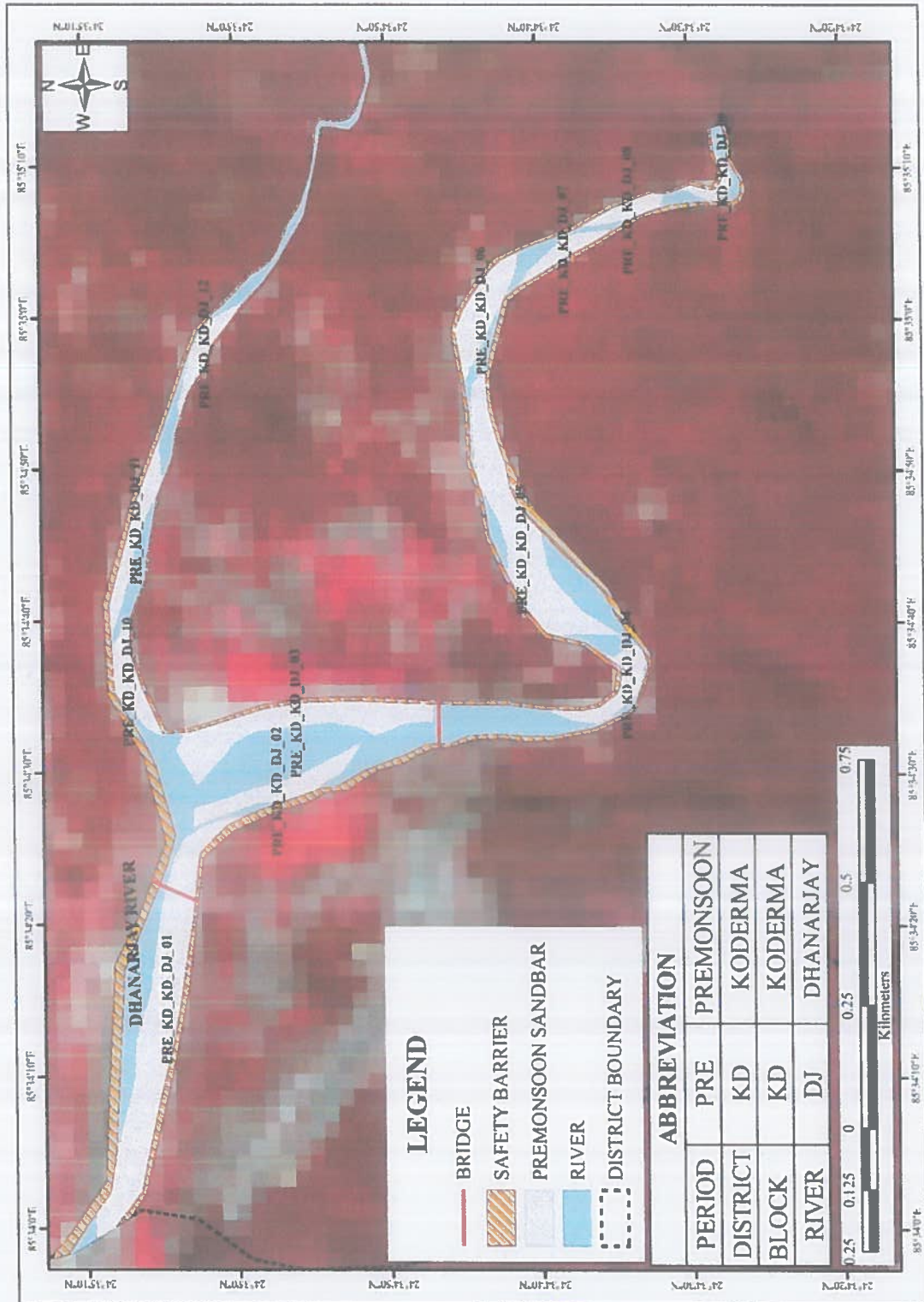


Plate No. A19: Plate showing sandbars in pre-monsoon



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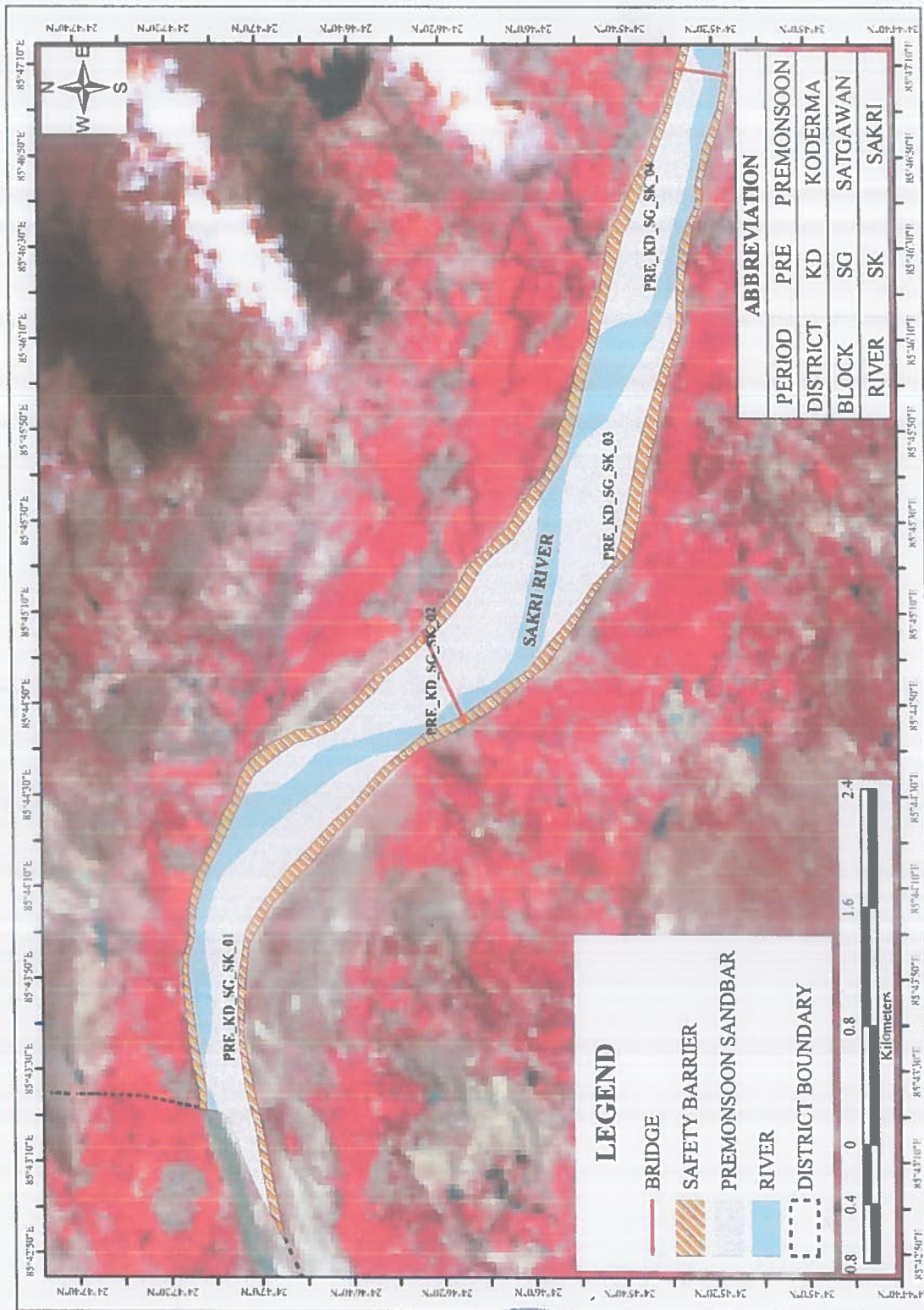


Plate No. A20: Plate showing sandbars in pre-monsoon

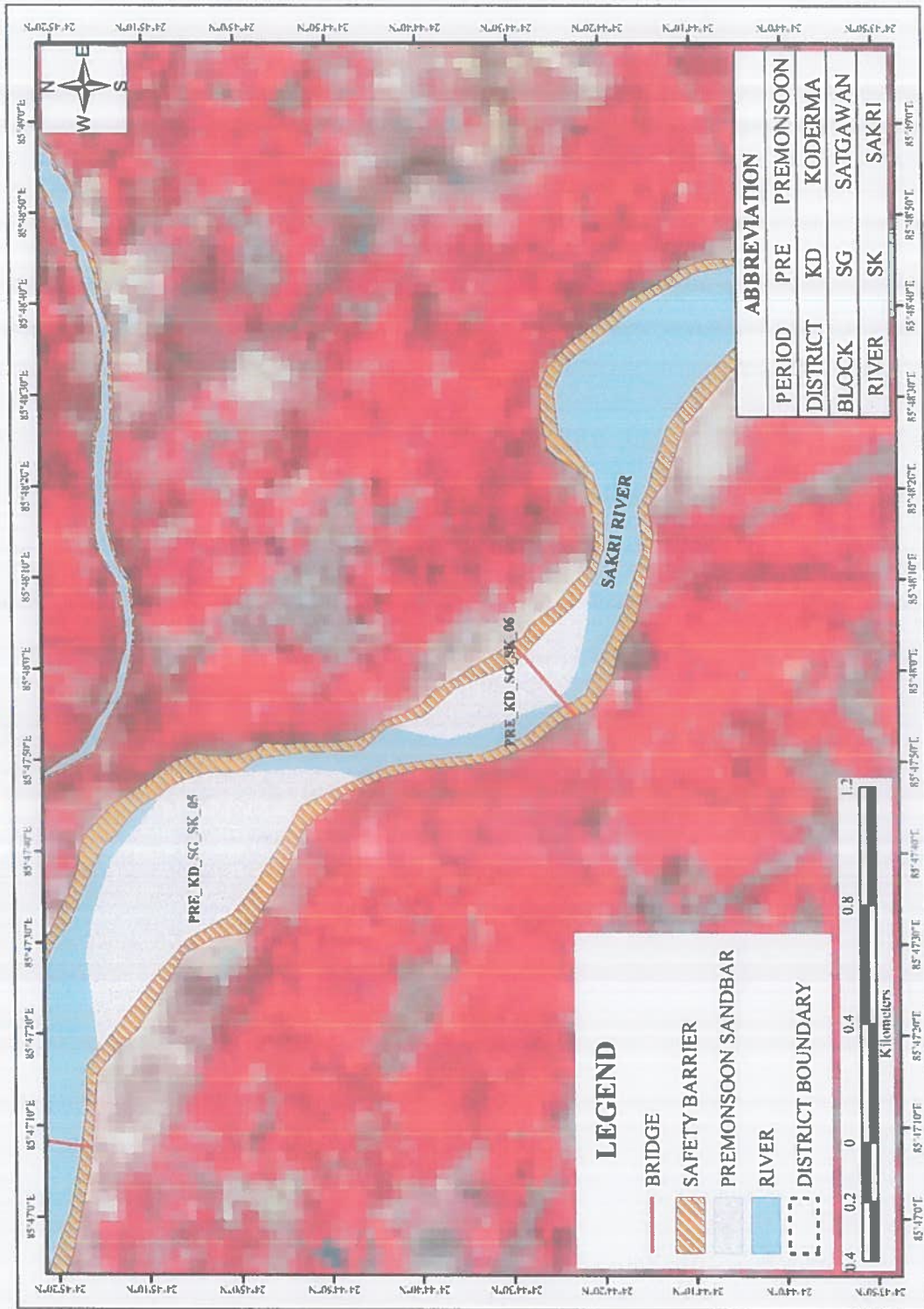


Plate No. A21: Plate showing sandbars in pre-monsoon



Plate B

(Plate showing potential Zone in post-monsoon)



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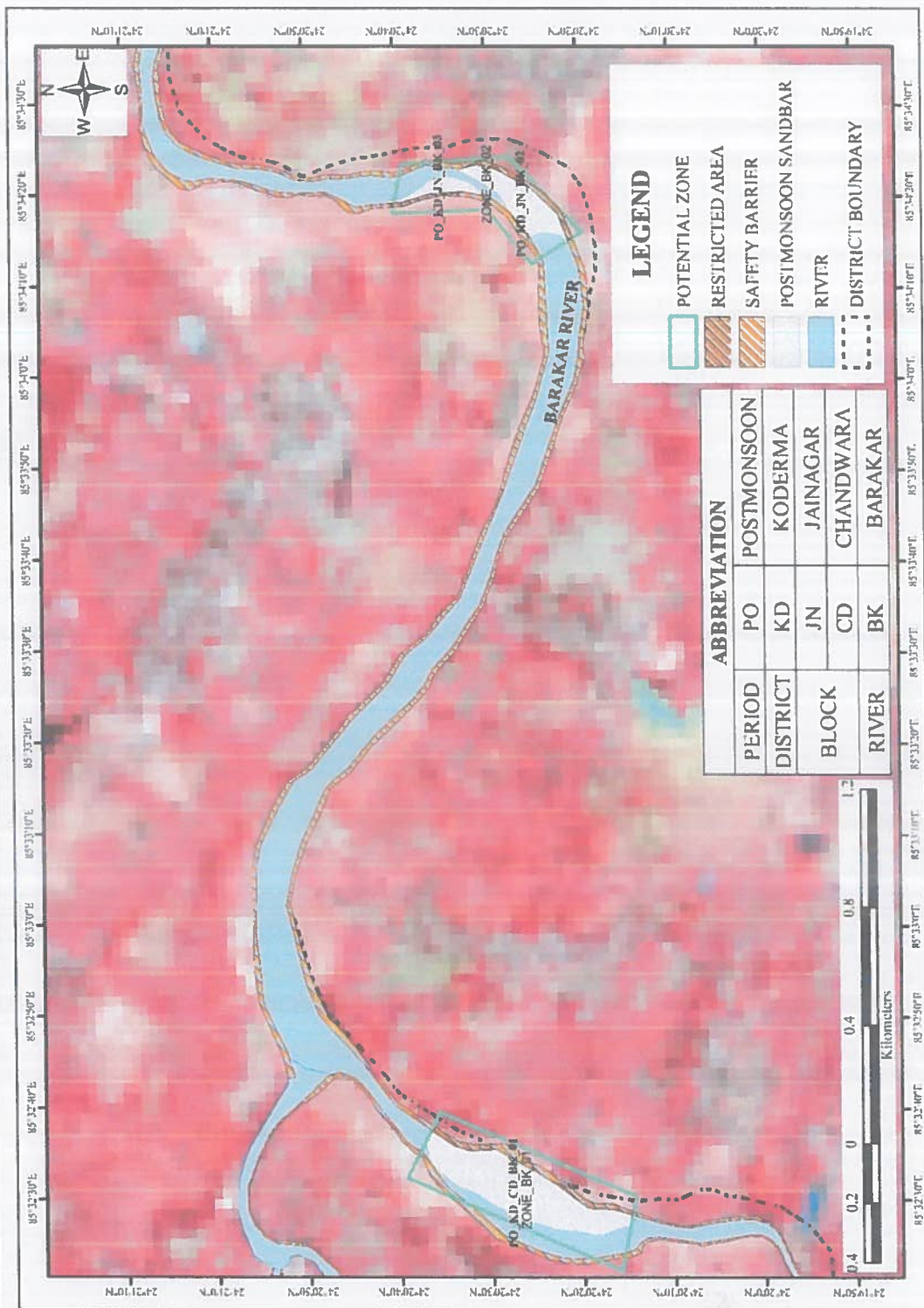


Plate No. B1: Plate showing potential Zone in post-monsoon

District Survey Report
Koderma, Jharkhand

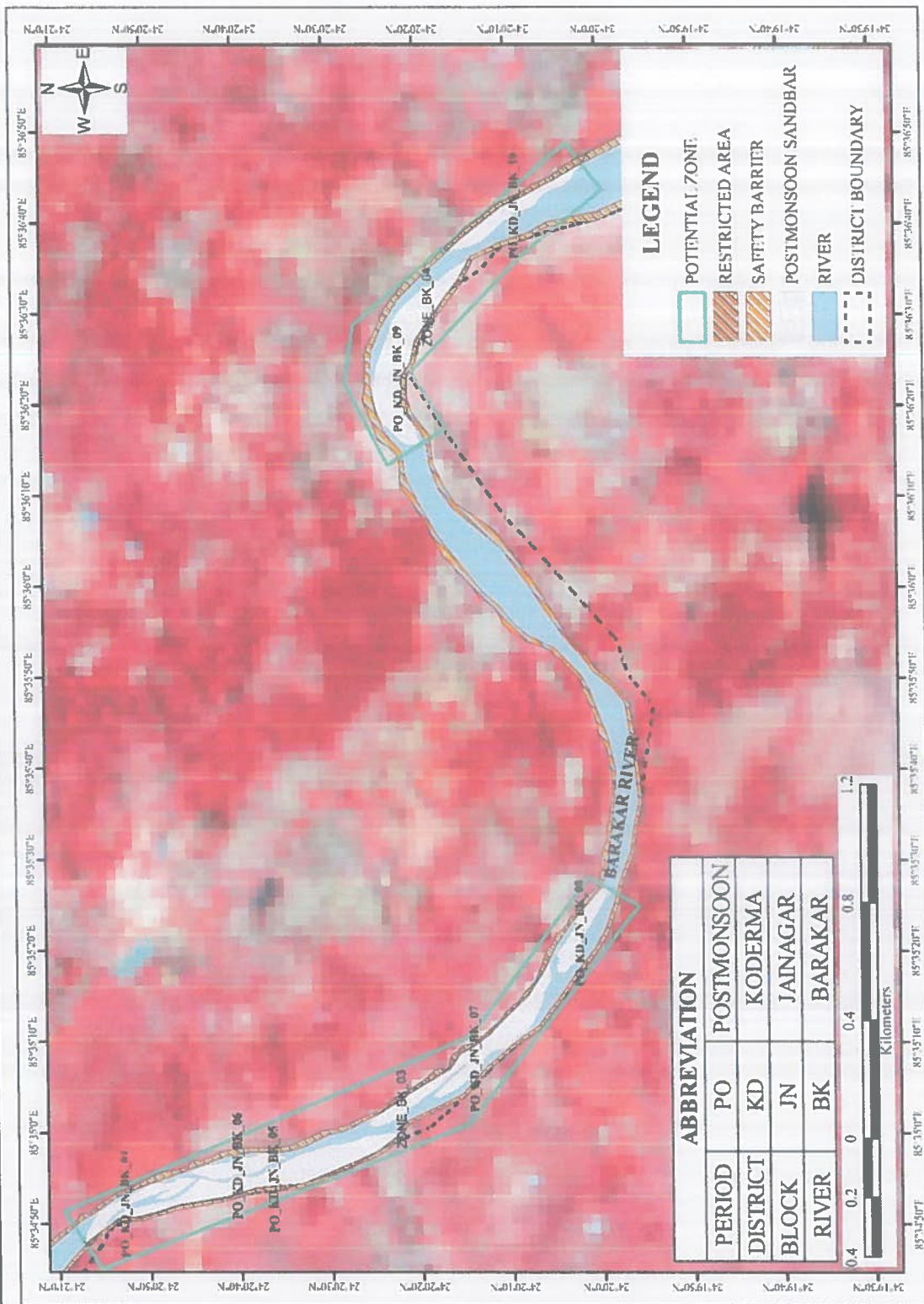


Plate No. B2: Plate showing potential Zone in post-monsoon



District Survey Report
Koderma, Jharkhand

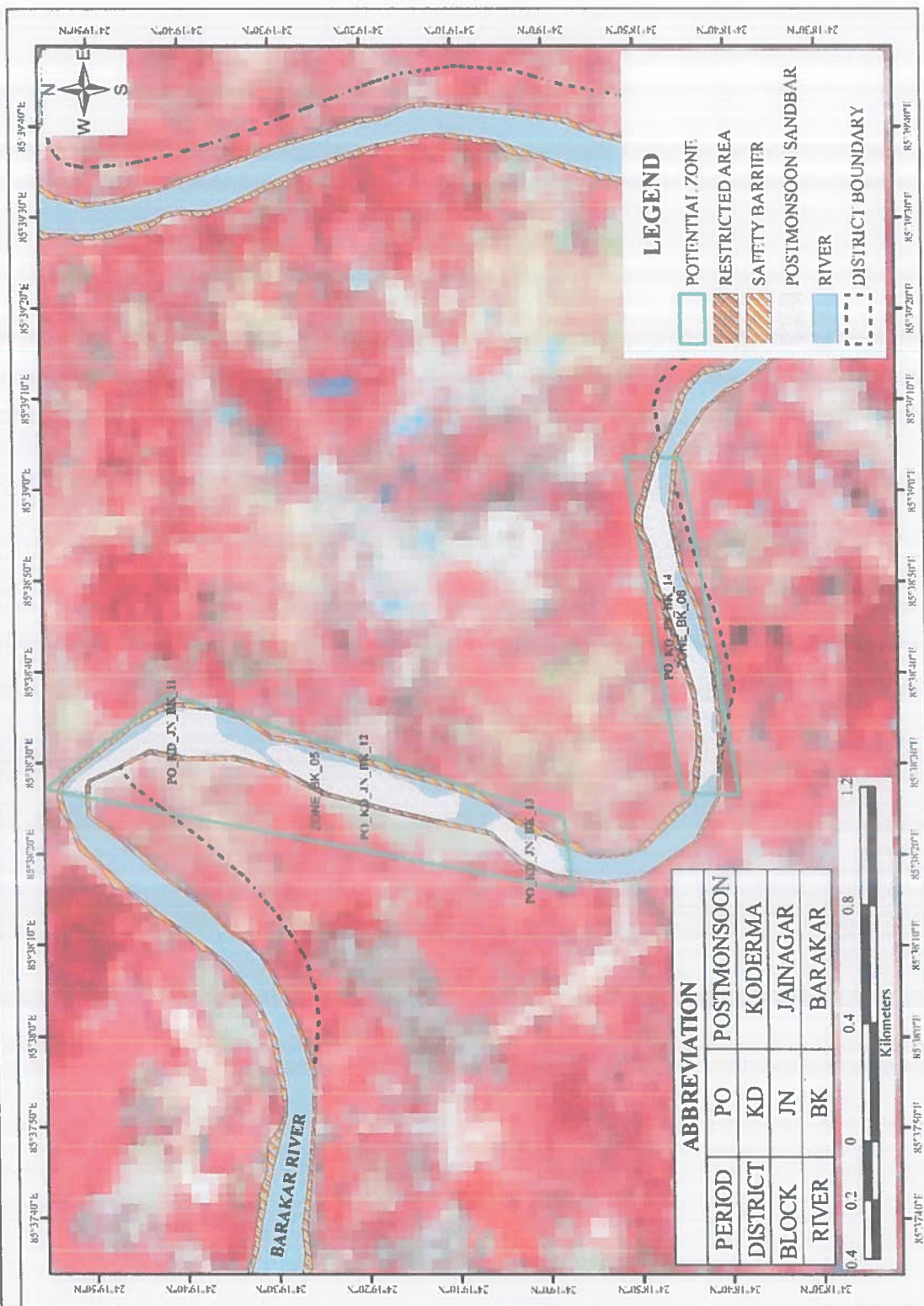


Plate No. B3: Plate showing potential Zone in post-monsoon



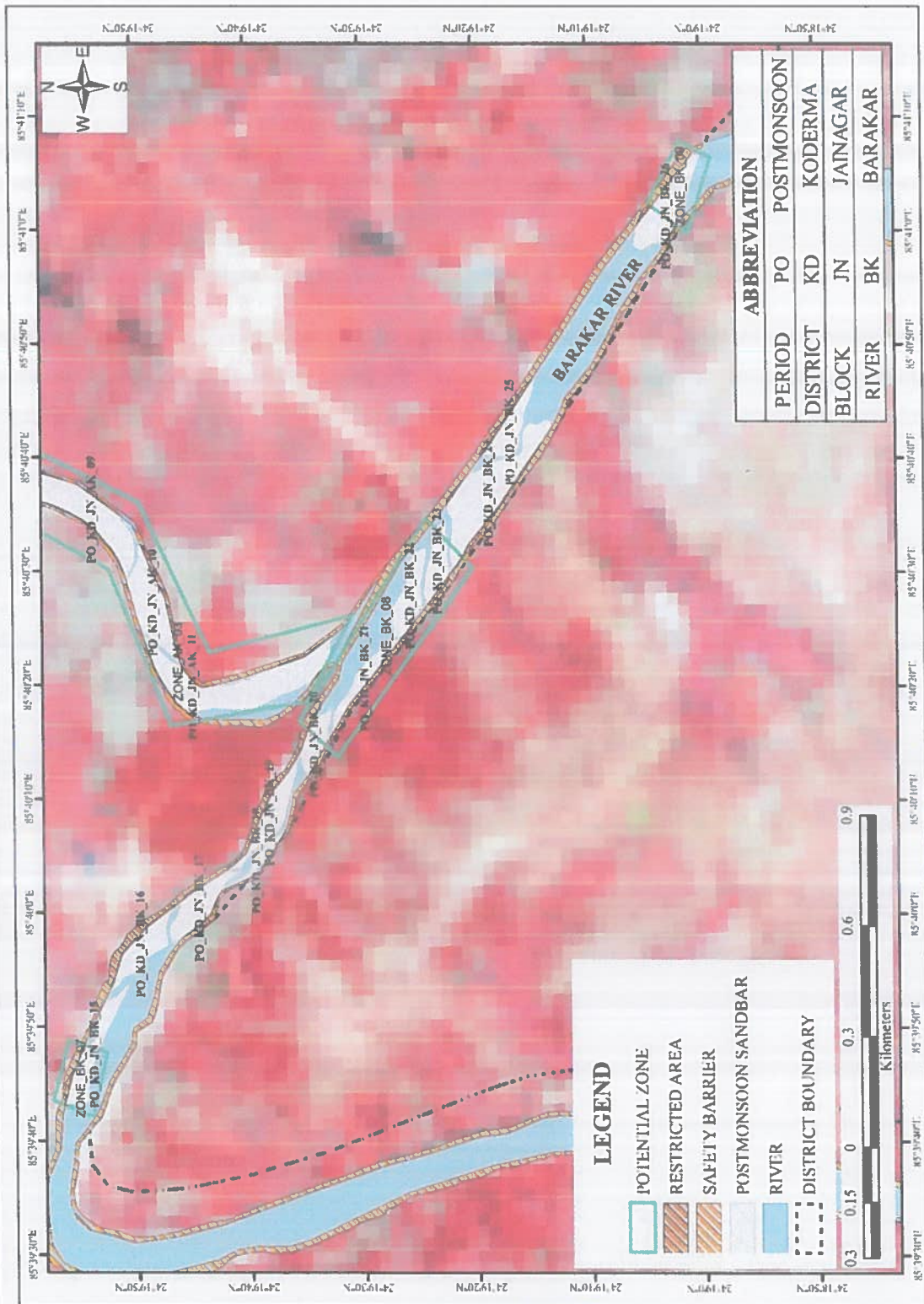


Plate No. B4: Plate showing potential Zone in post-monsoon



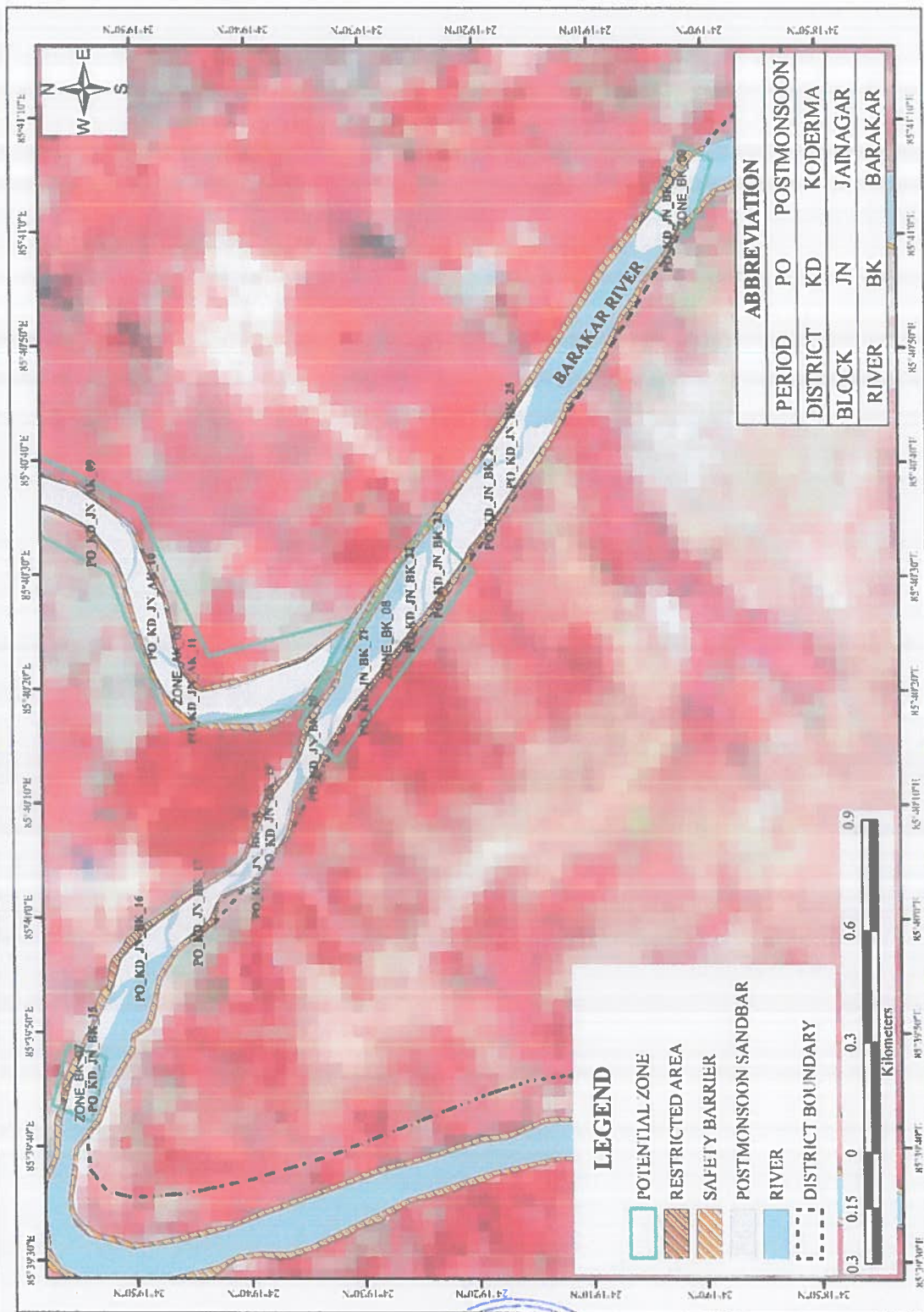


Plate No. B5: Plate showing potential Zone in post-monsoon



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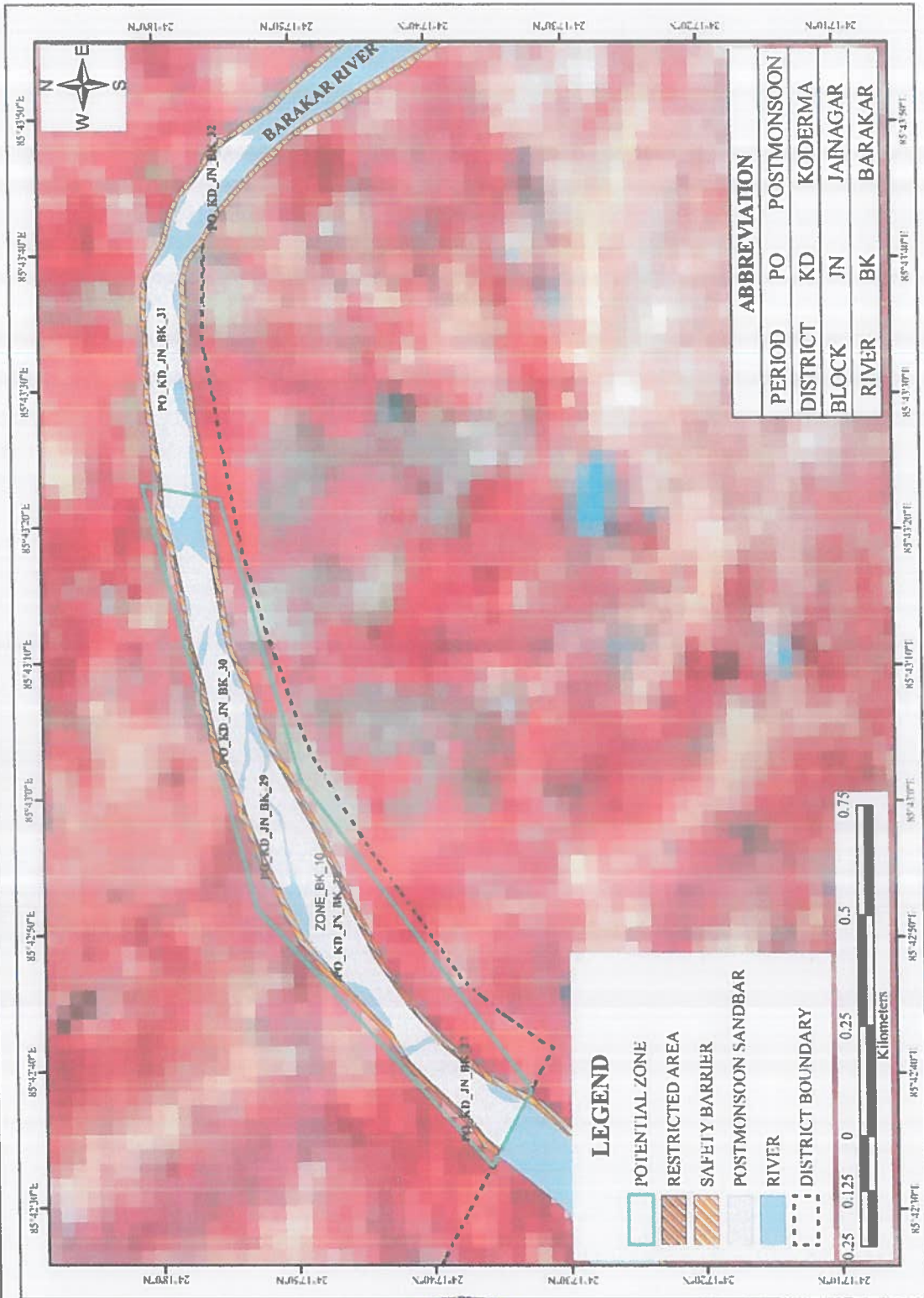


Plate No. B6: Plate showing potential Zone in post-monsoon



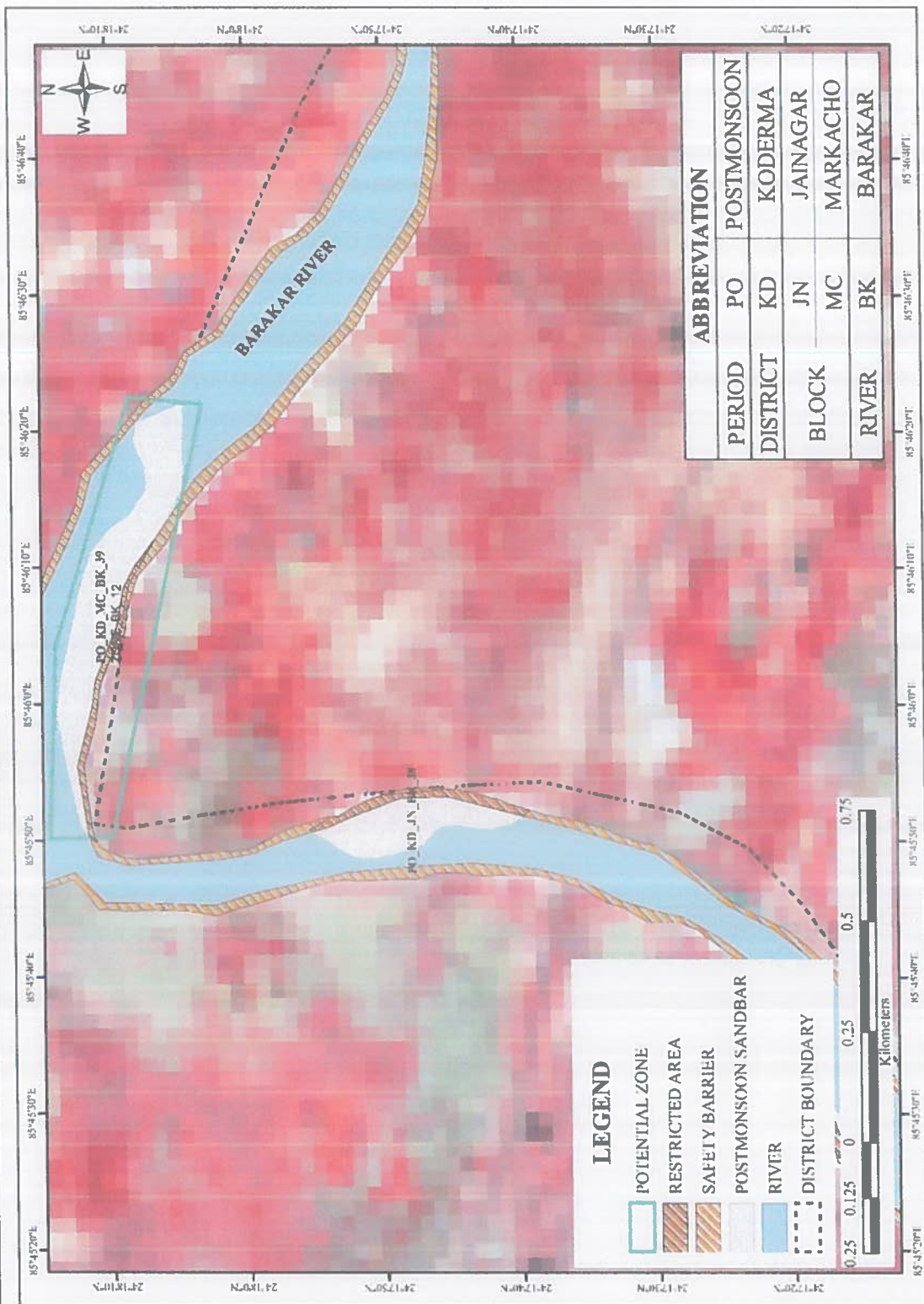


Plate No. B7: Plate showing potential Zone in post-monsoon



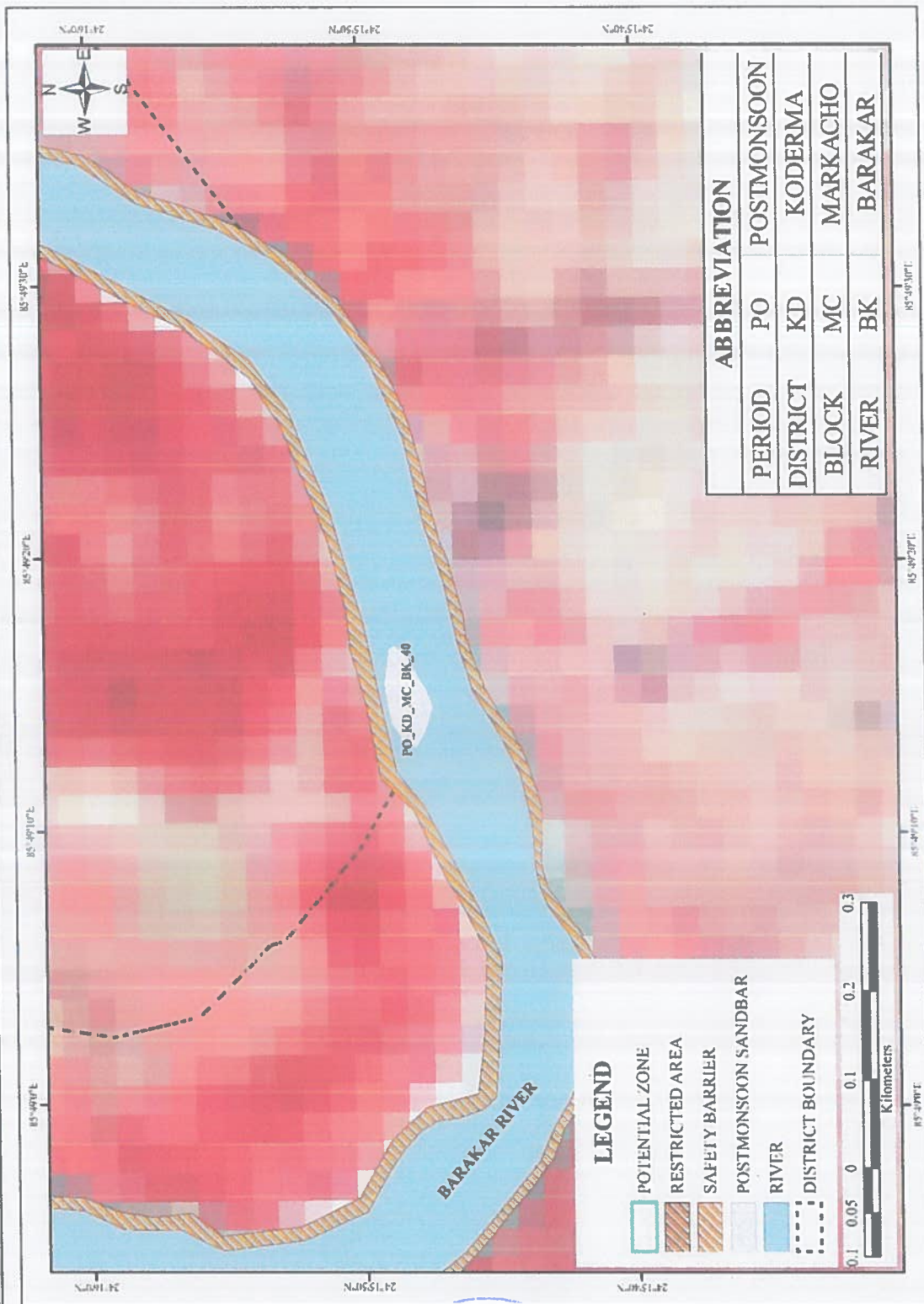


Plate No. B8: Plate showing potential Zone in post-monsoon



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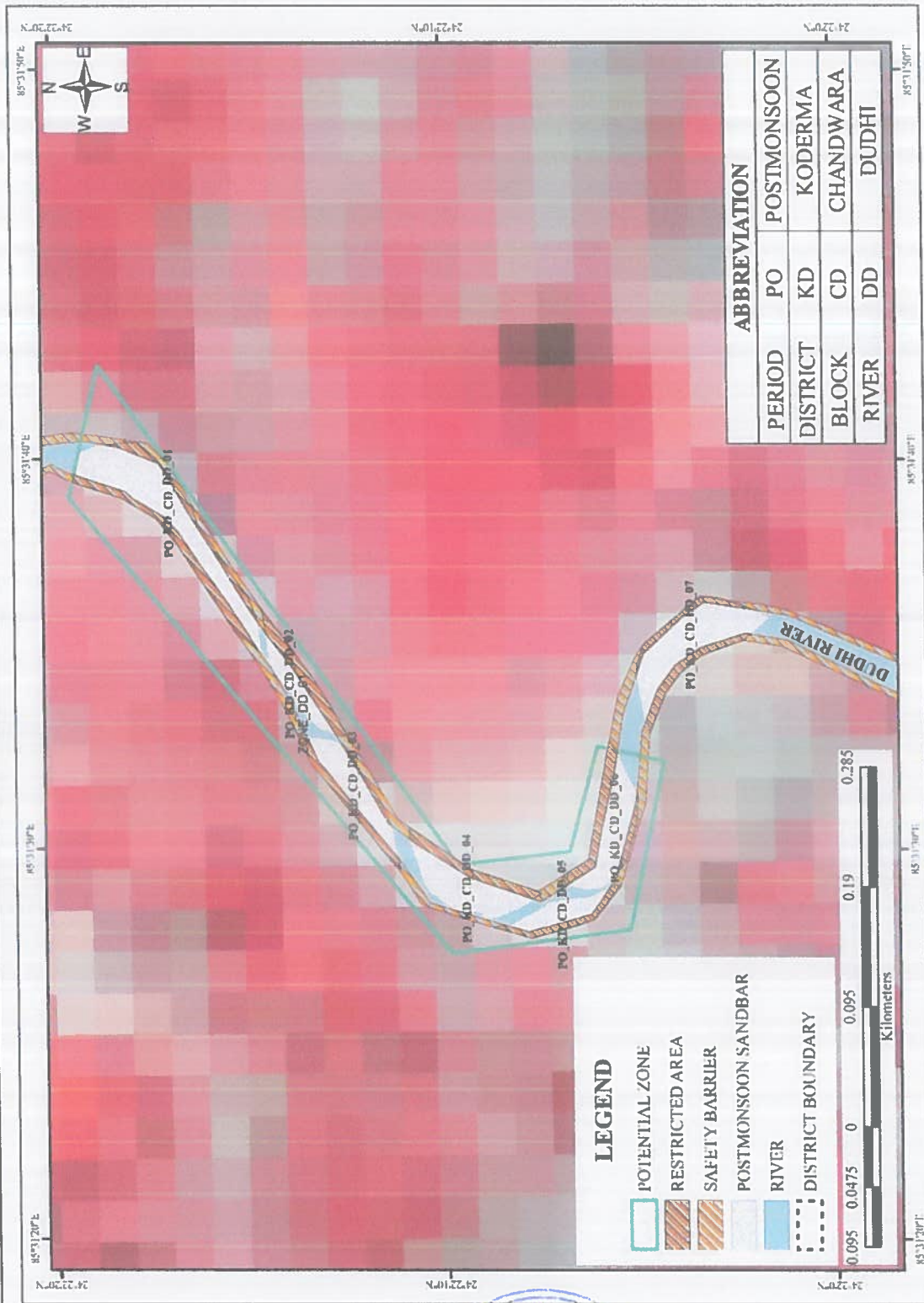


Plate No. B9: Plate showing potential Zone in post-monsoon





Plate No. B10: Plate showing potential Zone in post-monsoon

District Survey Report
Koderma, Jharkhand

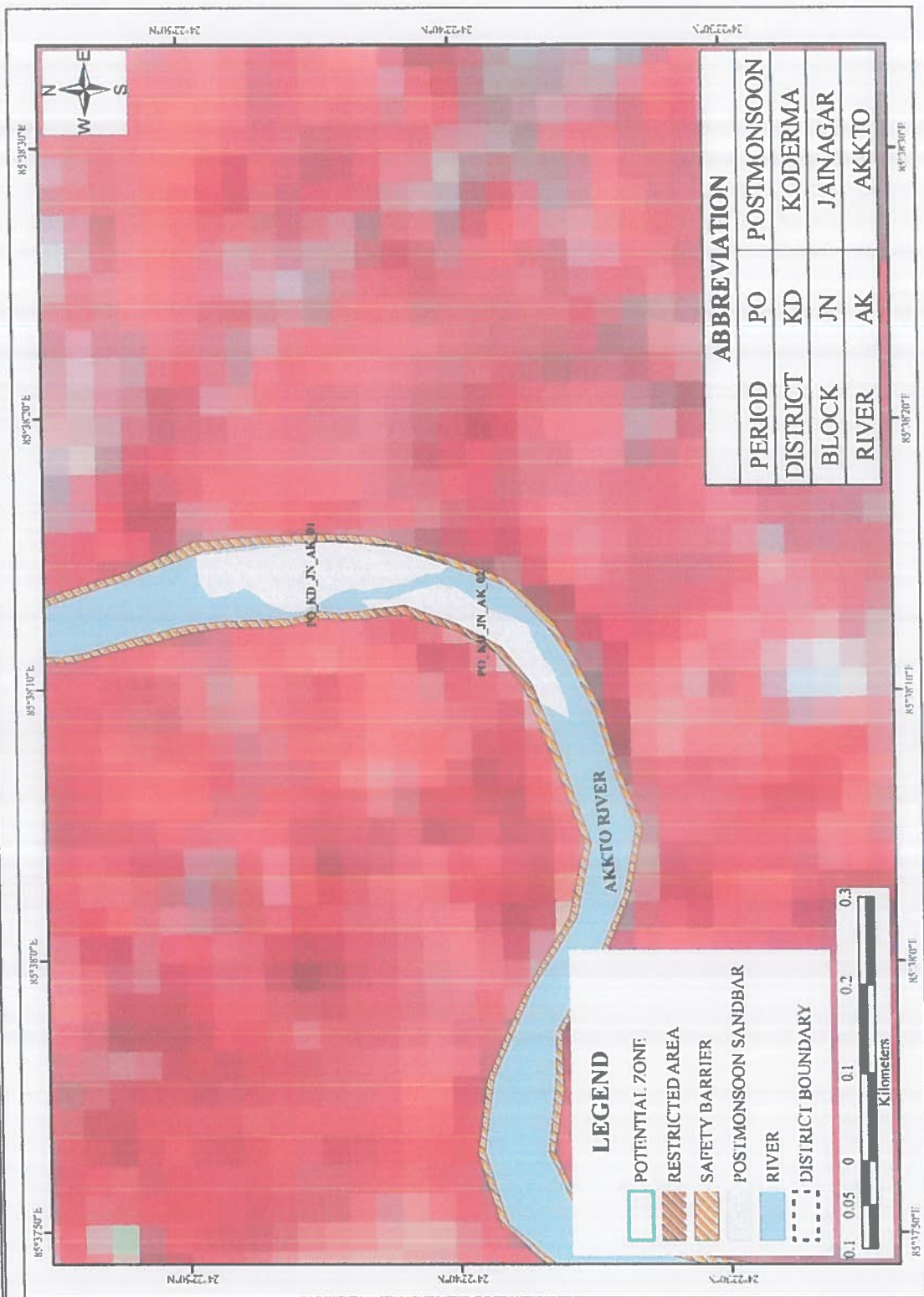


Plate No. B11: Plate showing potential Zone in post-monsoon



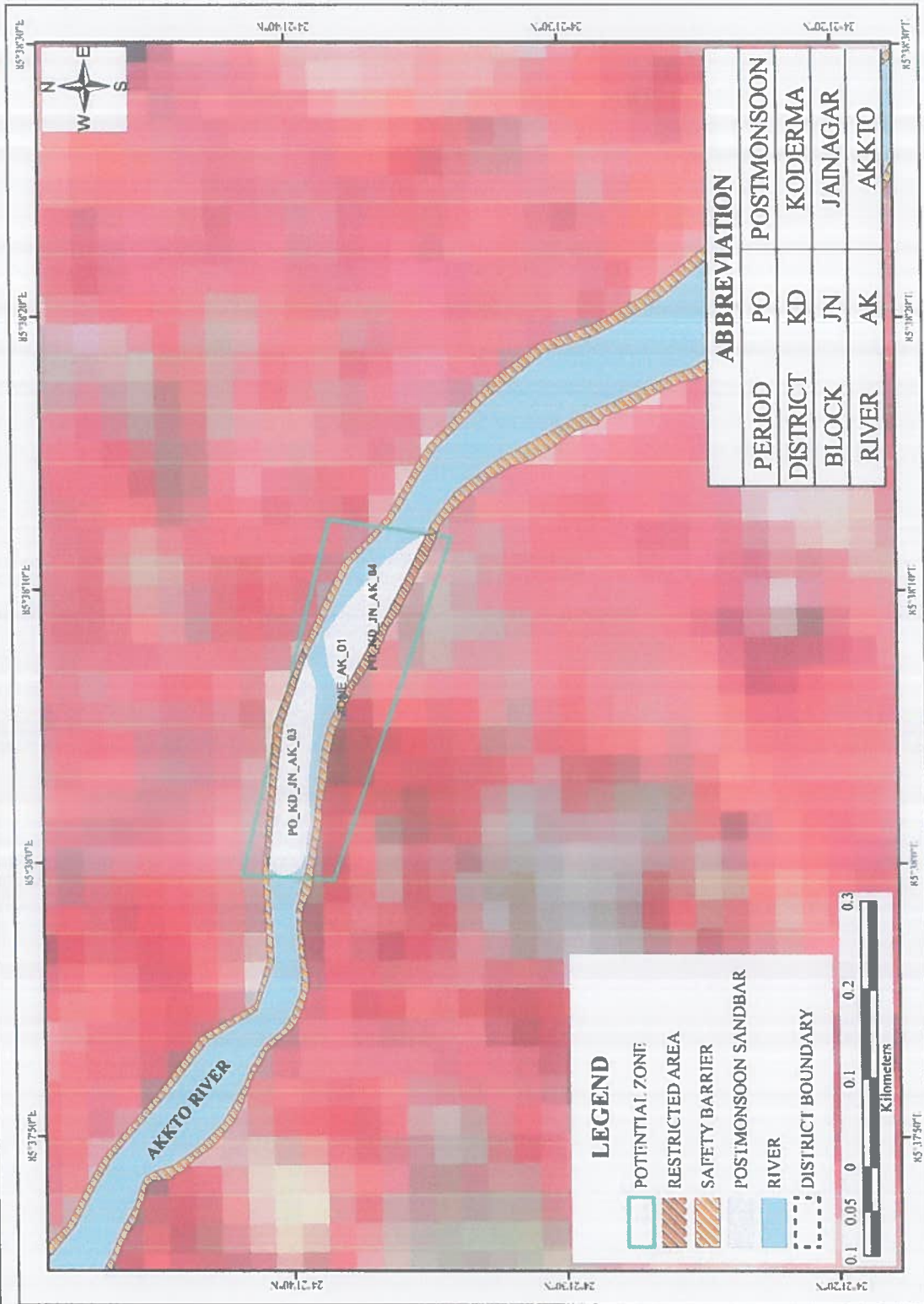


Plate No. B12: Plate showing potential Zone in post-monsoon



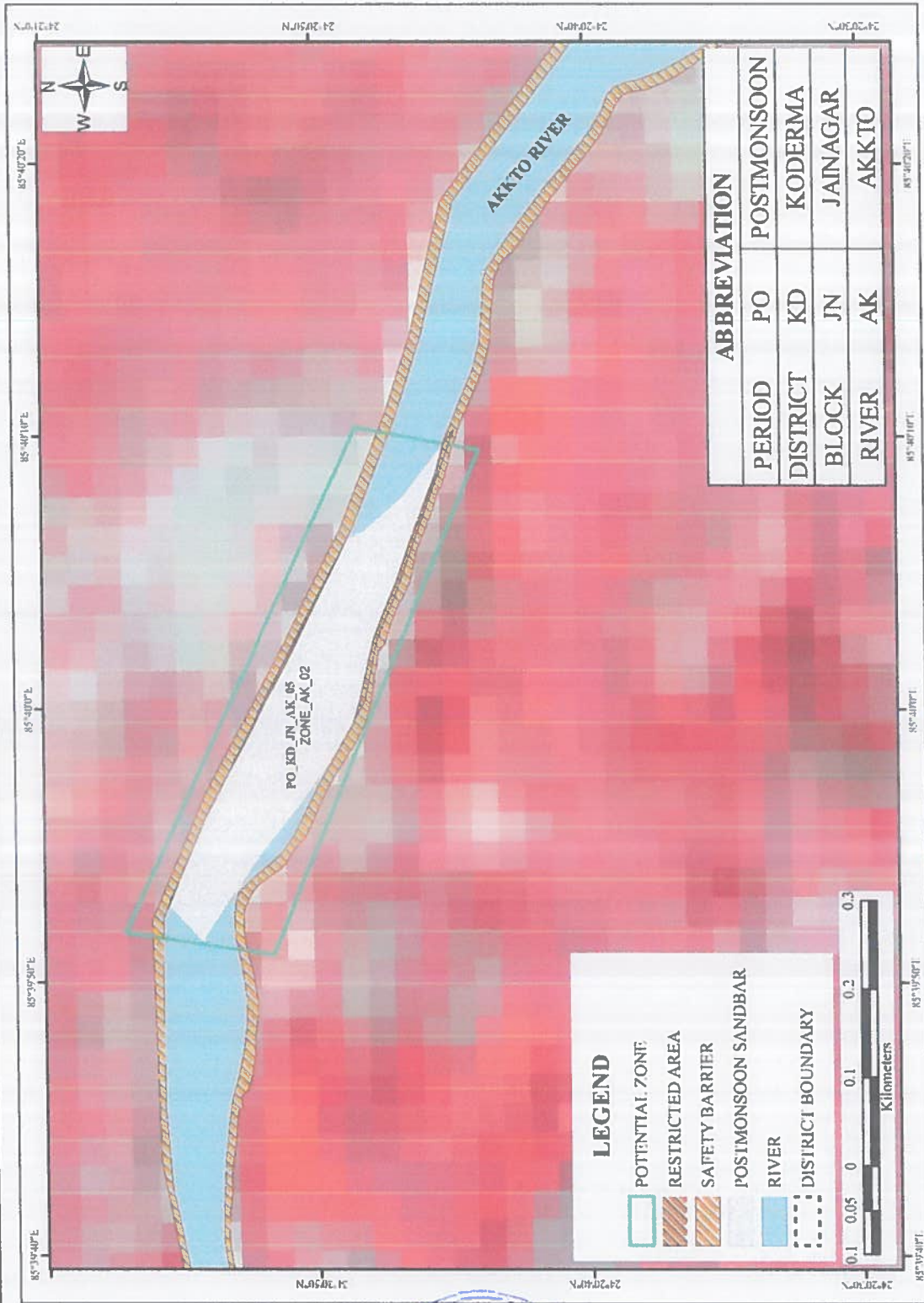


Plate No. B13: Plate showing potential Zone in post-monsoon



District Survey Report
Koderma, Jharkhand

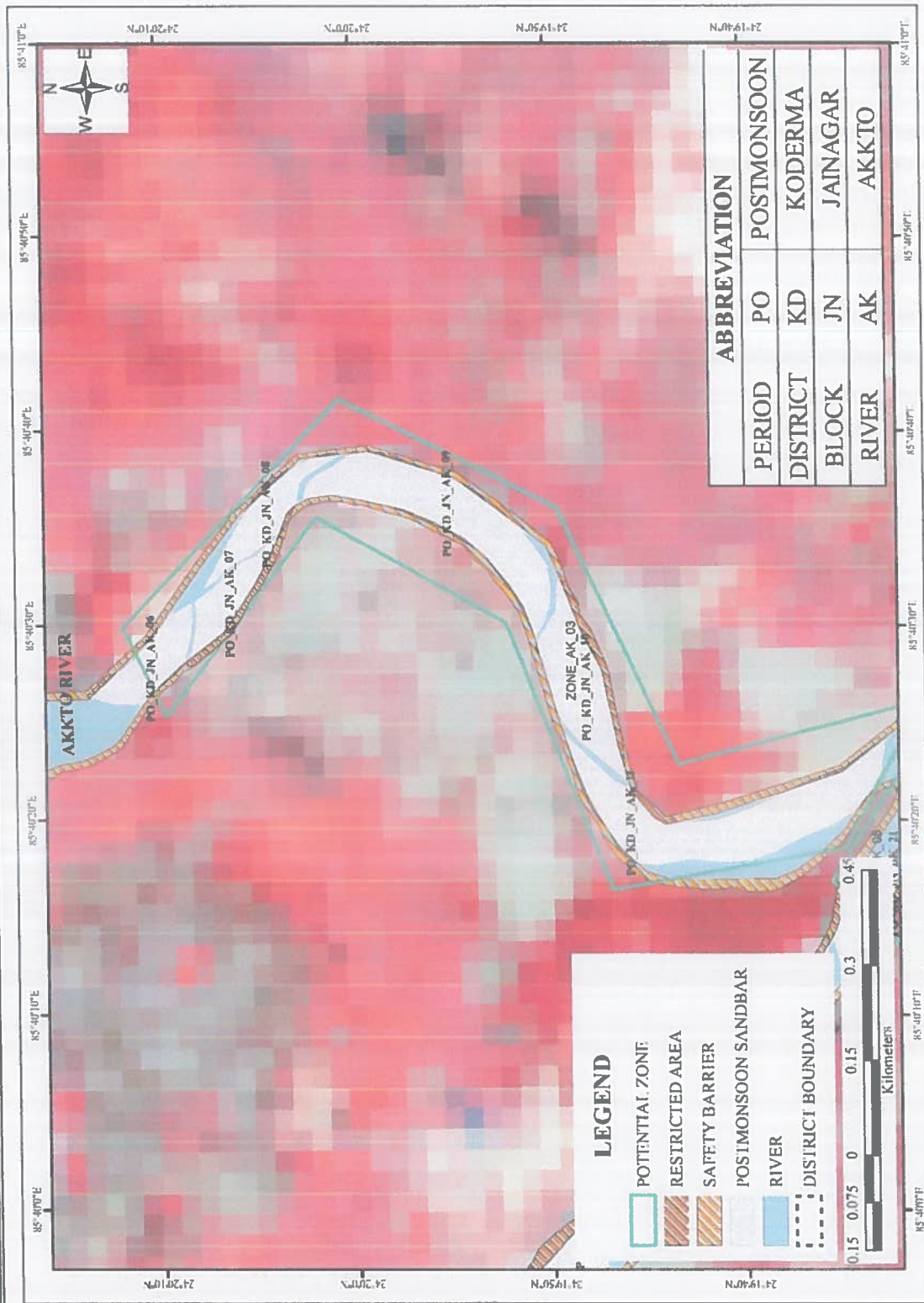


Plate No. B14: Plate showing potential Zone in post-monsoon



District Survey Report
Koderma, Jharkhand

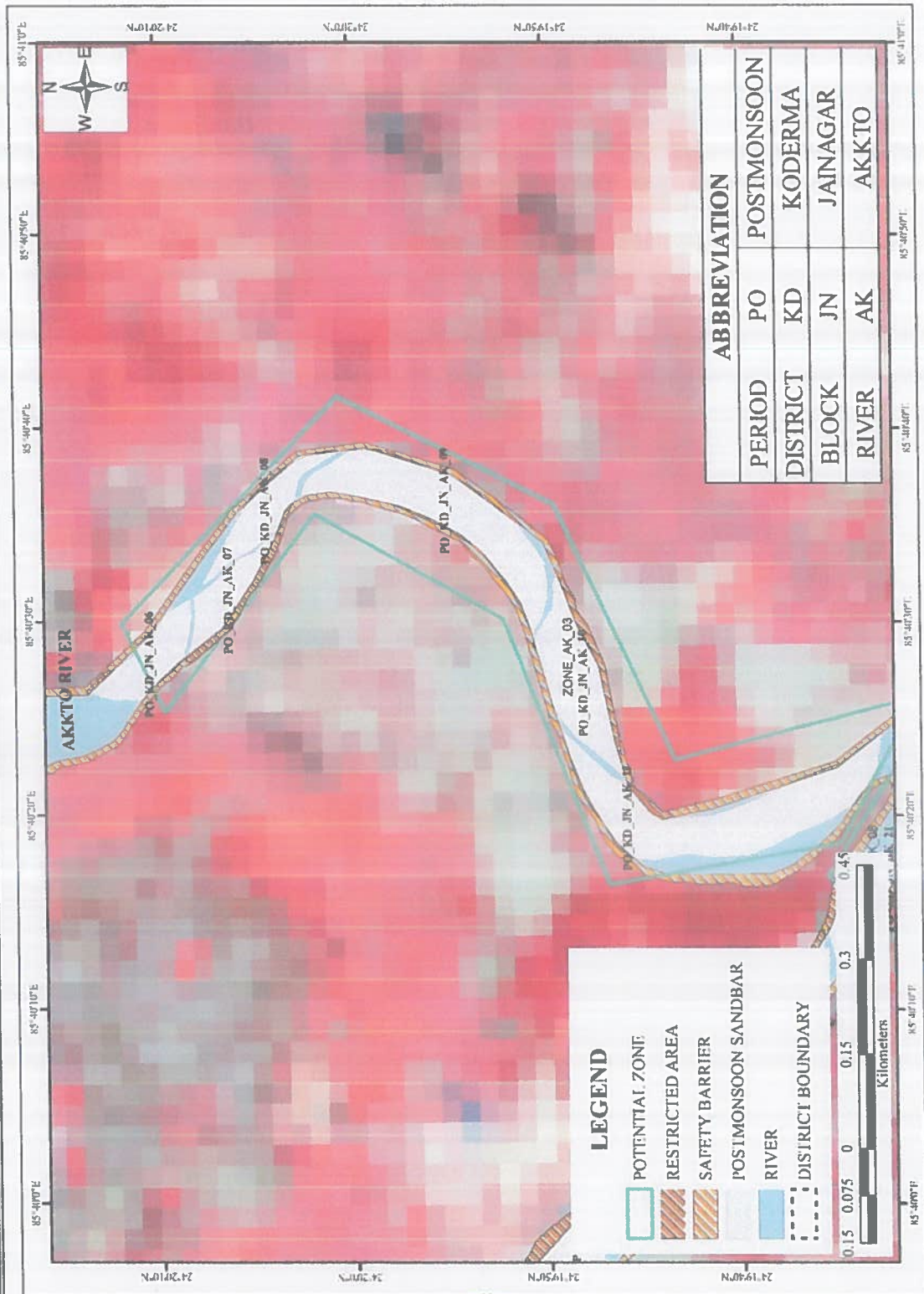


Plate No. B14: Plate showing potential Zone in post-monsoon



**District Survey Report
Koderma, Jharkhand**

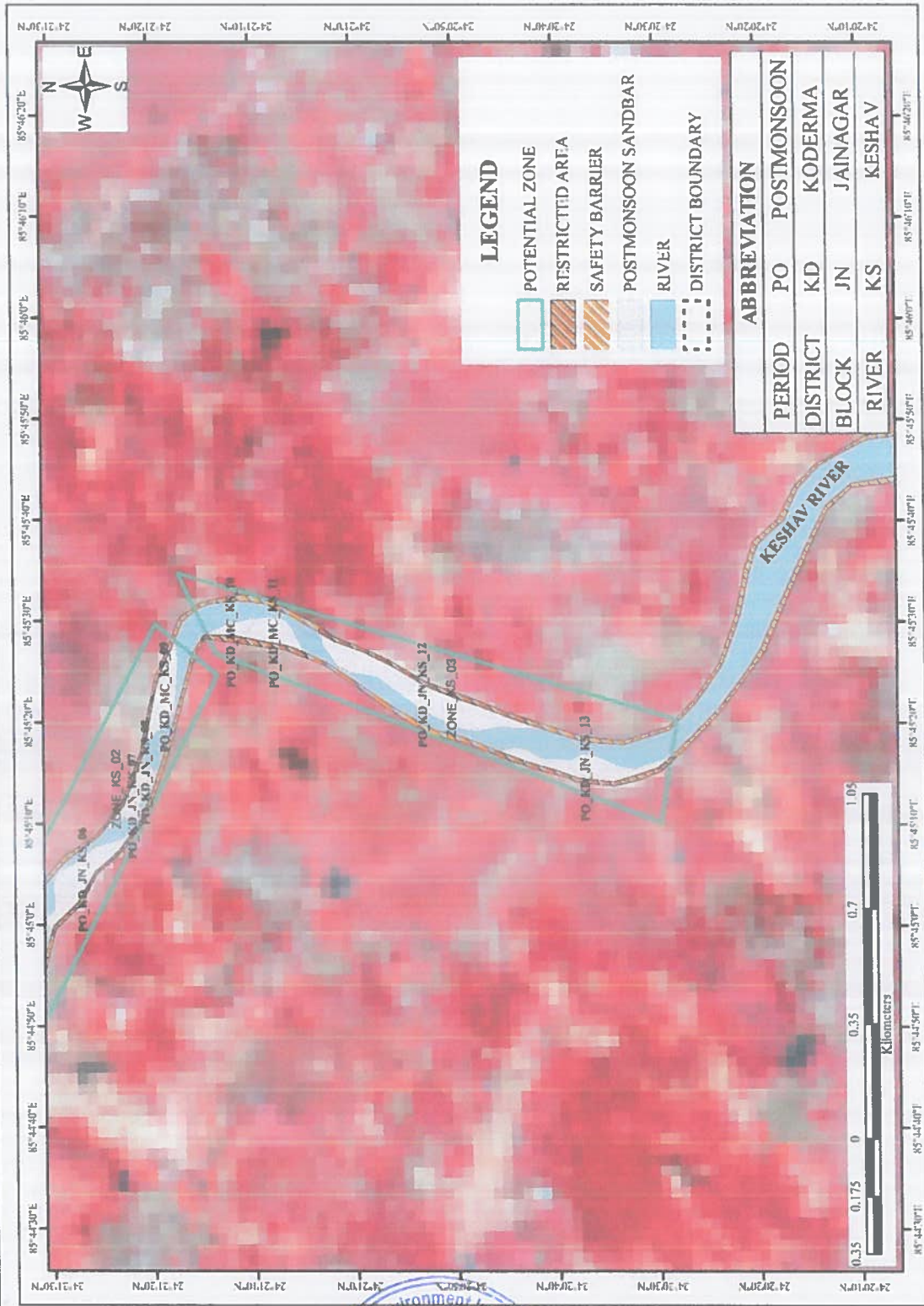


Plate No. B16: Plate showing potential Zone in post-monsoon



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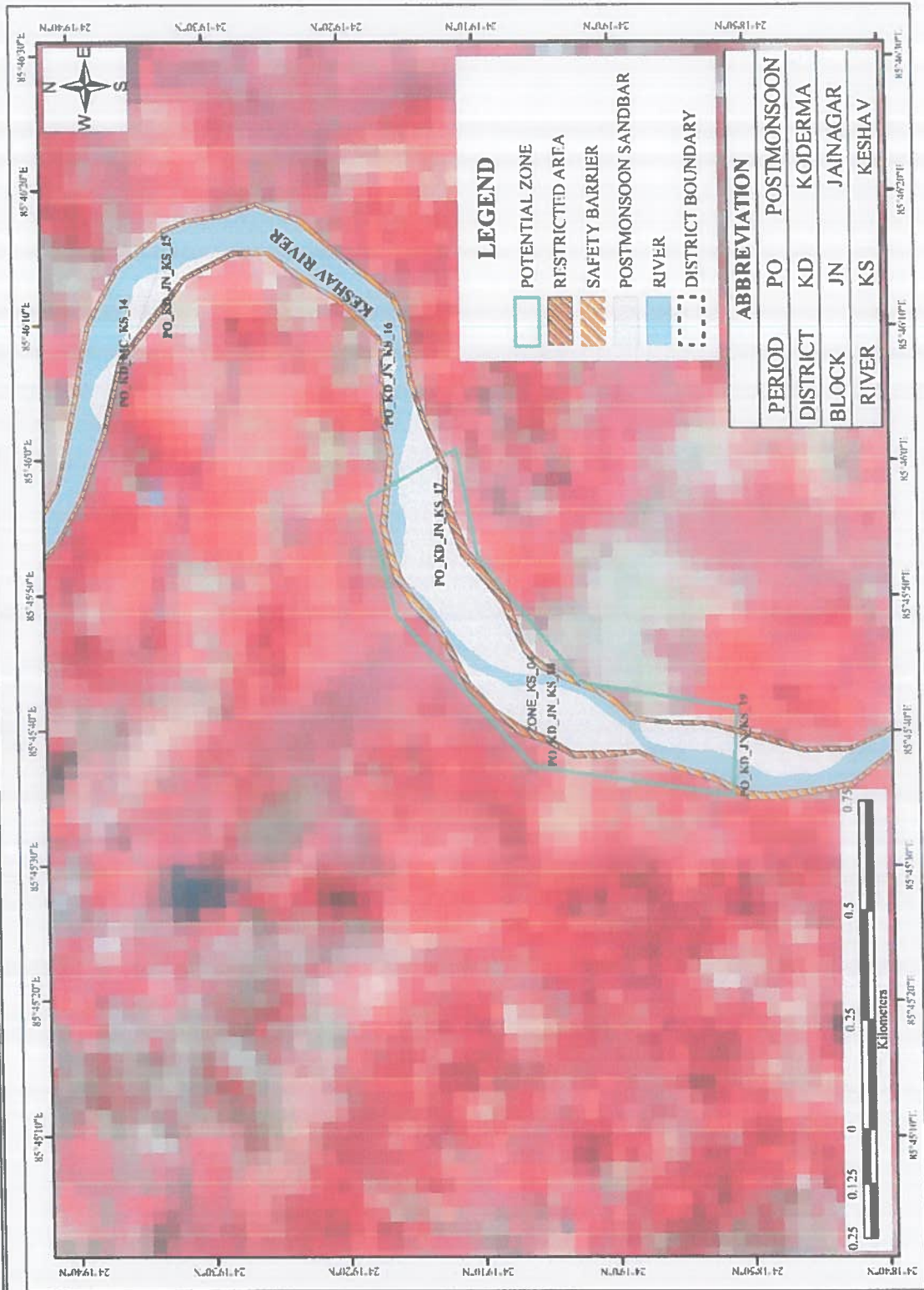


Plate No. 17: Plate showing potential Zone in post-monsoon



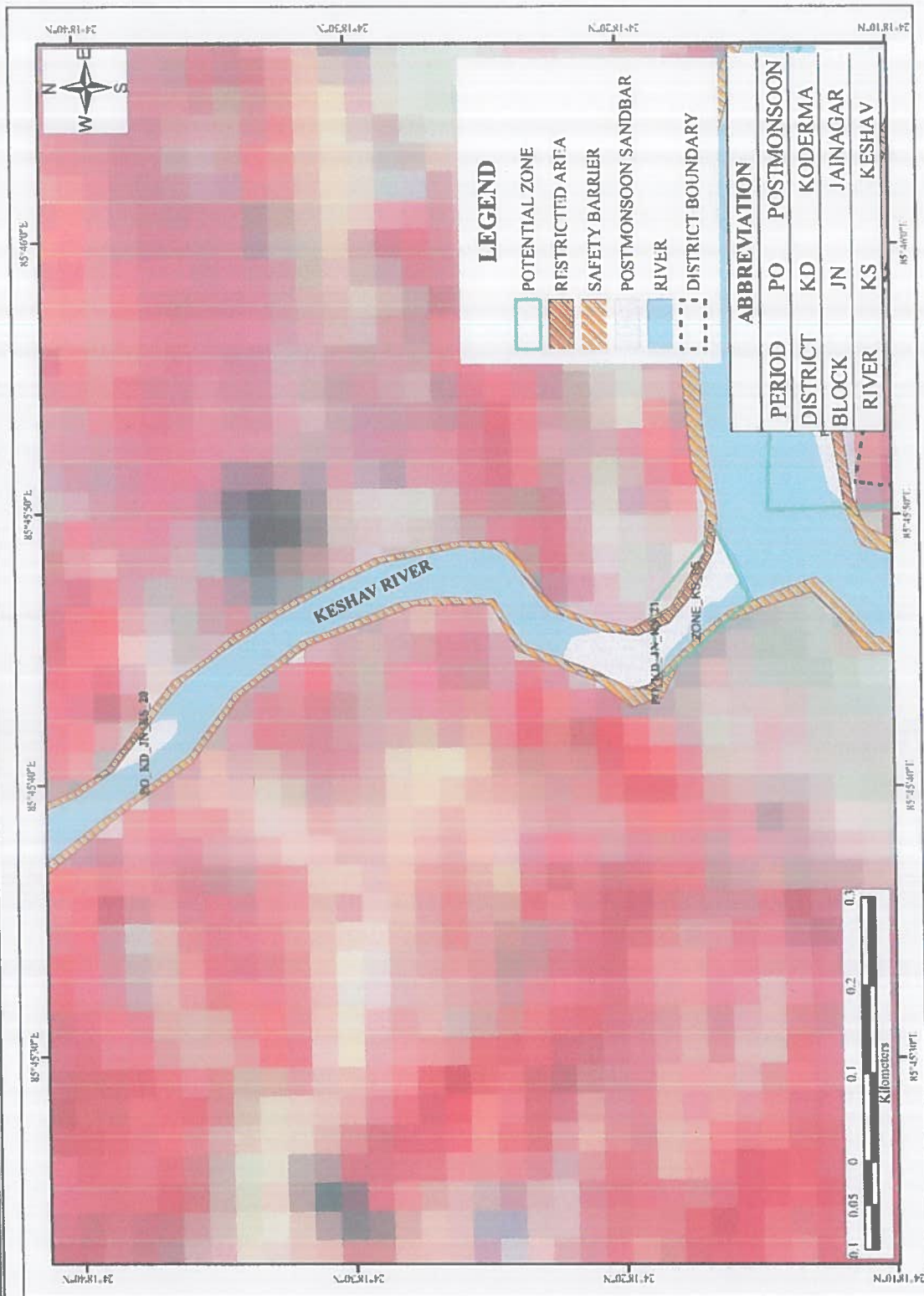


Plate No. B18: Plate showing potential Zone in post-monsoon



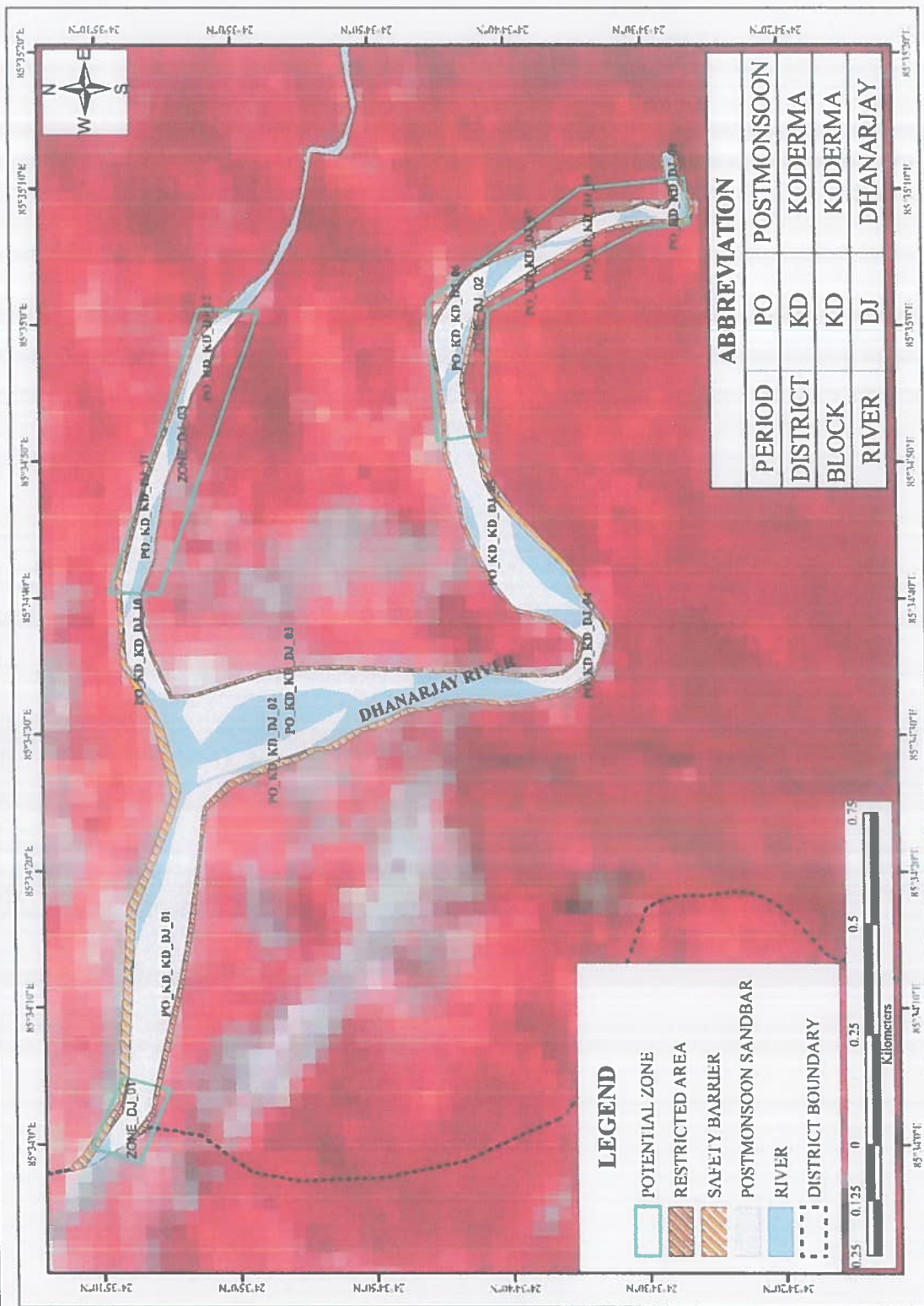


Plate No. B19: Plate showing potential Zone in post-monsoon



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District Survey Report
Koderma, Jharkhand

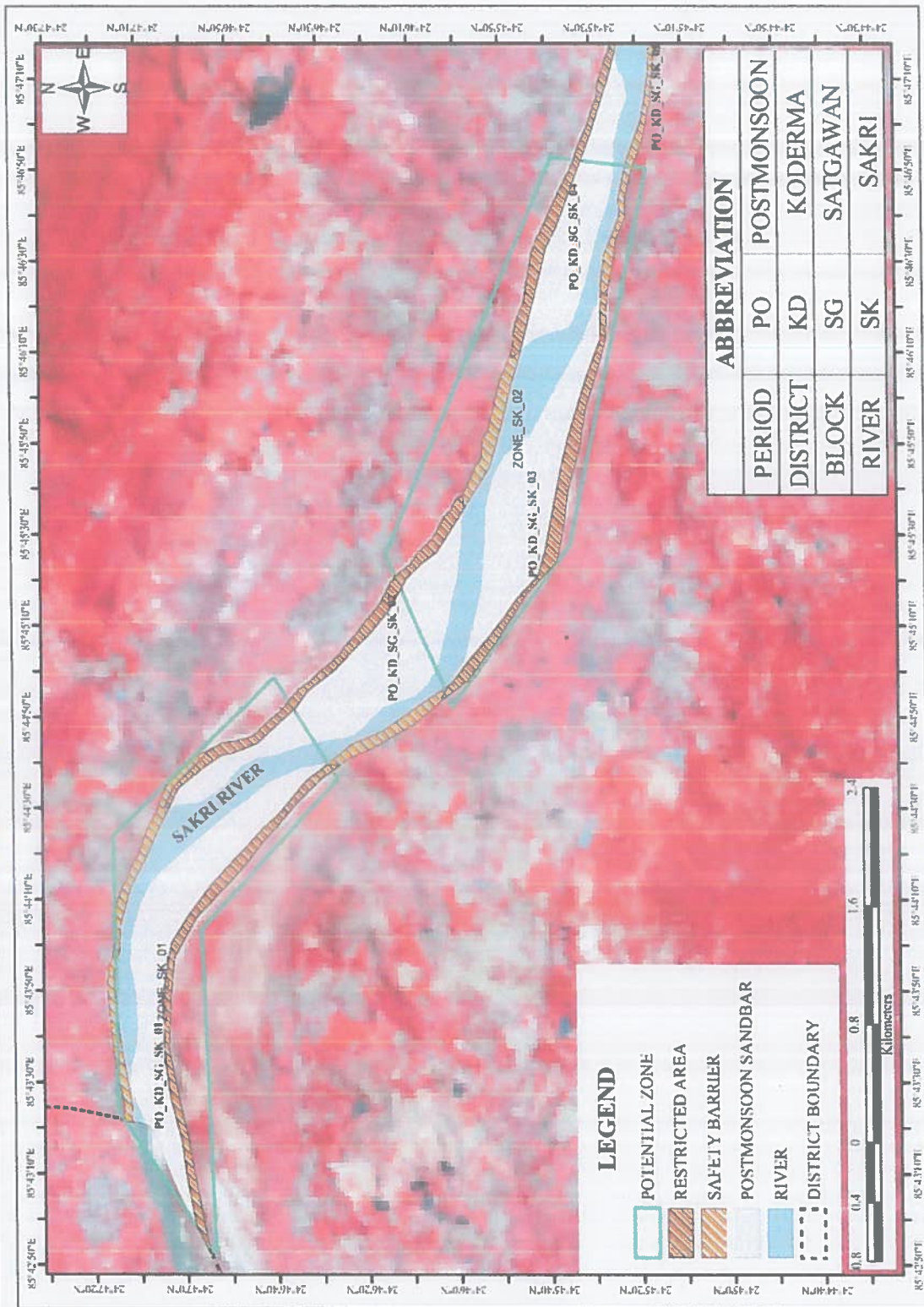


Plate No. B20: Plate showing potential Zone in post-monsoon



District Survey Report
Koderma, Jharkhand

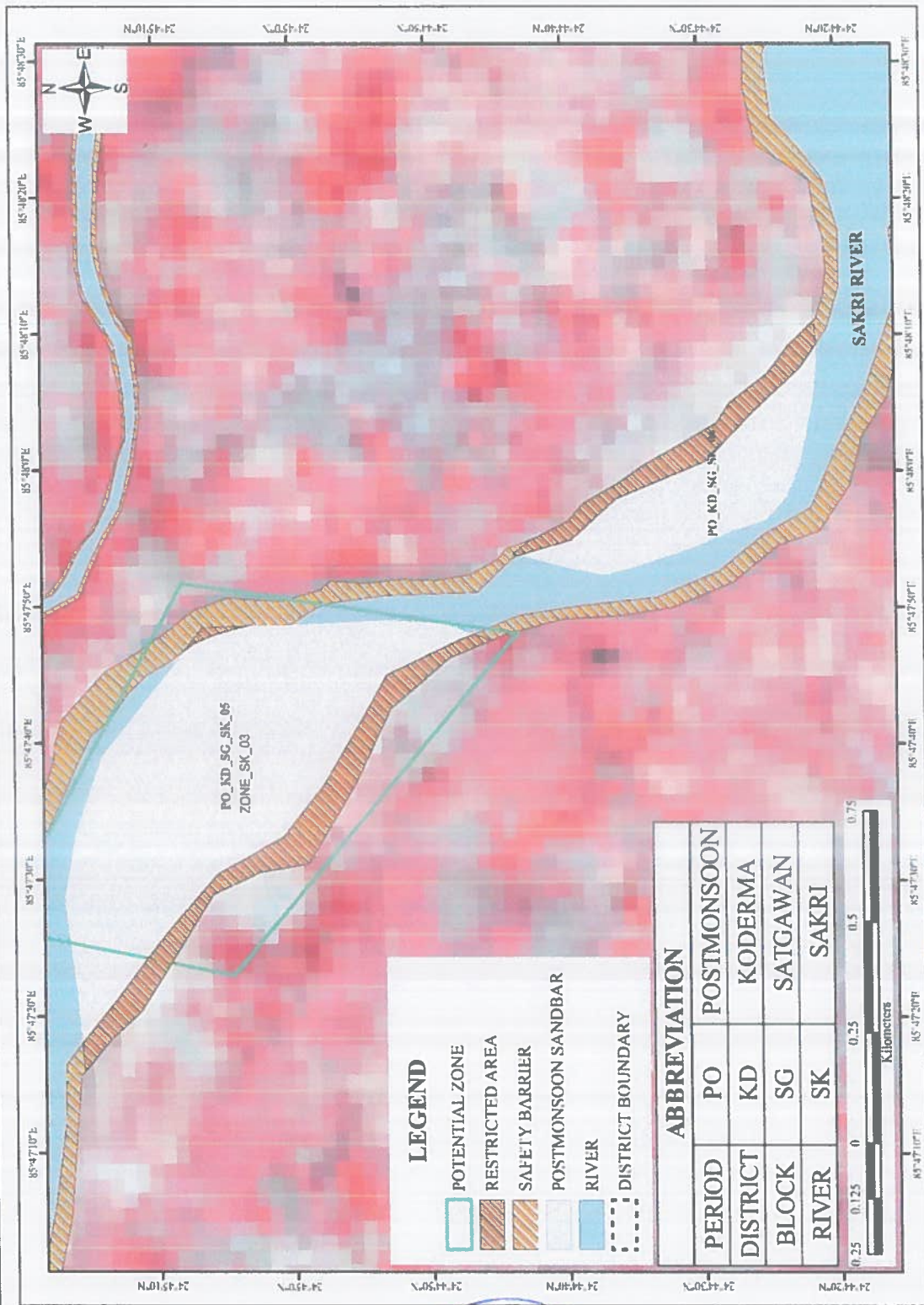


Plate No. B21: Plate showing potential Zone in post-monsoon



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Plate C
(As per JSAC Cadastral Map of Dudhi River)

Proposed Ghat of PO_KD_CD_DD_01, Block -Chandwara, District - Koderma, JHARKHAND



Pokdanda

मशहूर नाम पोखड़ा चान्दा नम्बर १
थाना नम्बर ४९
थाना चैनगर
परगना: गोगो
जिला हजारीबाग
पंचायत समिति का मोन १६ ईन्च
सन १८८१-१७ ईस्वी

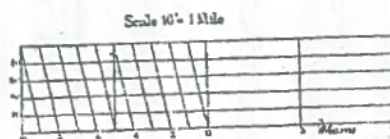
समजा कागजात	
१. खजाना नम्बर	१५५
२. समजा नम्बर	१५५
३. पञ्चायत नम्बर	१५५
४. कला नम्बर	१५५

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नम्बर १३२
५३२
५३६
१४६०

जाम डी मशहूर
हमामा
अब डी मशहूर
हजारीबाग



For Superintendent of Survey.

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	350679.6462	2696210.584	24°22' 19.385" N	85°31' 39.937" E
P2	350684.1155	2696161.755	24°22' 17.799" N	85°31' 40.114" E
P3	350643.0394	2696148.339	24°22' 17.349" N	85°31' 38.661" E
P4	350658.8178	2696141.869	24°22' 17.144" N	85°31' 39.224" E

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	AREA_in_ACRE	REMARKS
Chandwara	POKDANDA	41	1	987	8.5559	
TOTAL AREA					8.5559	

Proposed Area in Ha of 01- 0.036

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

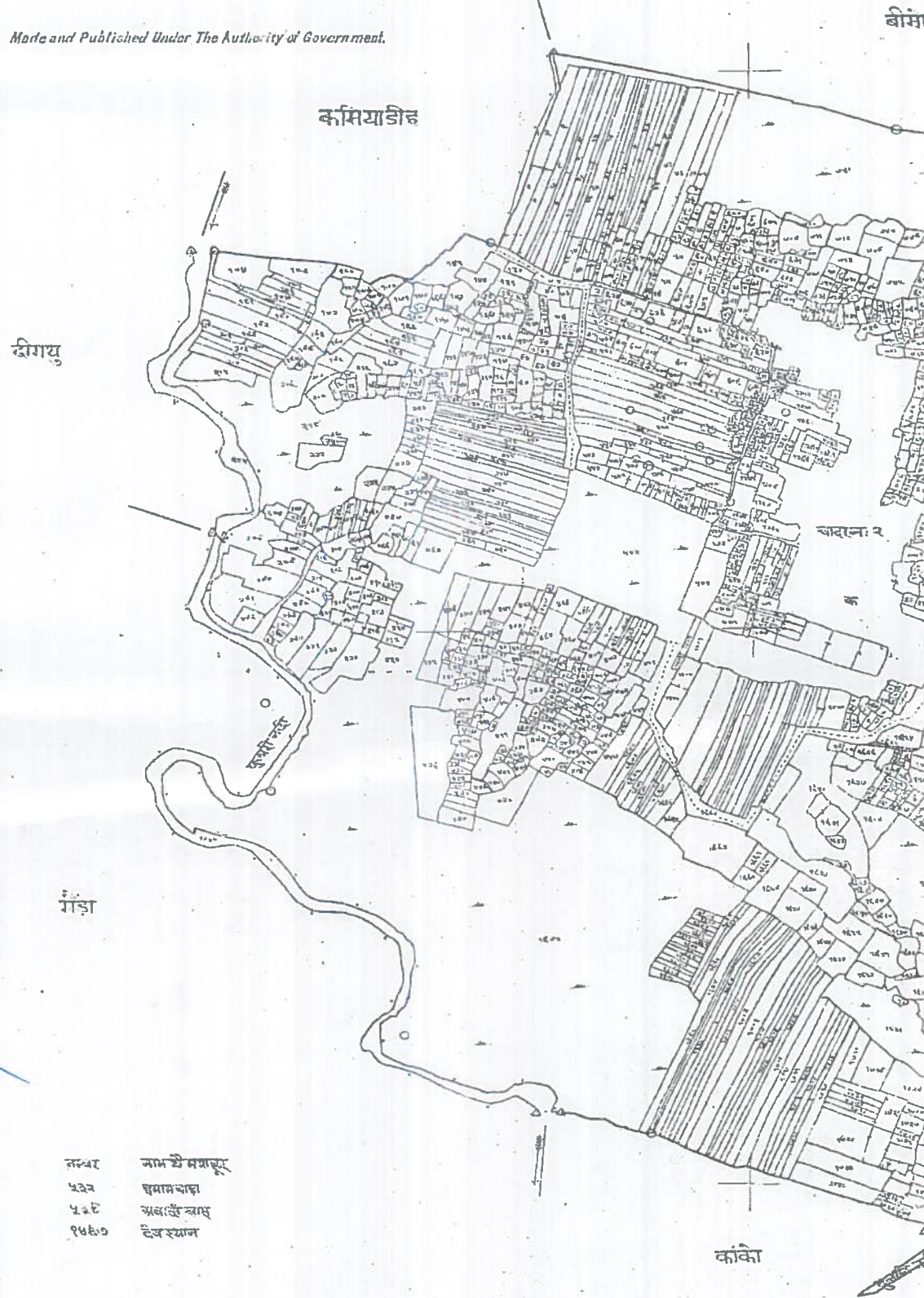
Proposed Ghat of PO_KD_CD_DD_01, Block -Chandwara, District - Ku

Pokdanda

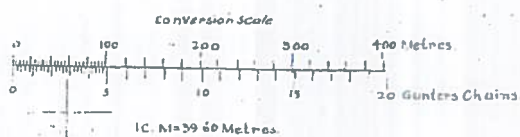
महानगर नाम पोखडा चाला नम्वर १
थाना नम्वर ४९
थाना जैनगर
परगना: गुगा
जिला हजगिबाग
पंचायत/हसन का मोन १९ ईन्व
सन १८९९-९० ईस्वी

१	यदिनिशा
२	सकान नम
३	पञ्चा कुल
४	कडा कुल

Made and Published Under The Authority of Government.



नम्वर नाम ये सगल
५३२ हामस कोडा
५३८ अलाडी नम्वर
९४६० देव स्थान



Scale 10" = 1 Mile



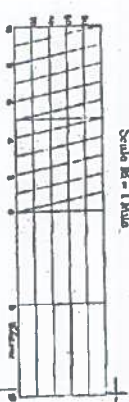
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	350679.6462	2696210.584	24°22' 19.385" N	85°31' 39.937" E
P2	350684.1155	2696161.755	24°22' 17.799" N	85°31' 40.114" E
P3	350643.0394	2696148.339	24°22' 17.349" N	85°31' 38.661" E
P4	350658.8178	2696141.869	24°22' 17.144" N	85°31' 39.224" E

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	AREA_In_ACRE	REMARKS
Chandwara	POKDANDA	41	1	987	8.5559	
TOTAL AREA					8.5559	

Proposed Area in Ha of 01- 0.036

१	ग्रहनिर्माण + ग्रहवैज्ञानिकप्रयोग	अंक	
२	समानप्रसरण	अंक	
३	एकलक्षणा	अंक	
४	कक्षाकुशा	अंक	

श्रीगणेशाय नमः



Seulo bá-1 Mulo

For Superintendent of Survey:

- **PILLAR POINT**

VILLAGE WISE AREA

TOTAL AREA

TOTAL AREA

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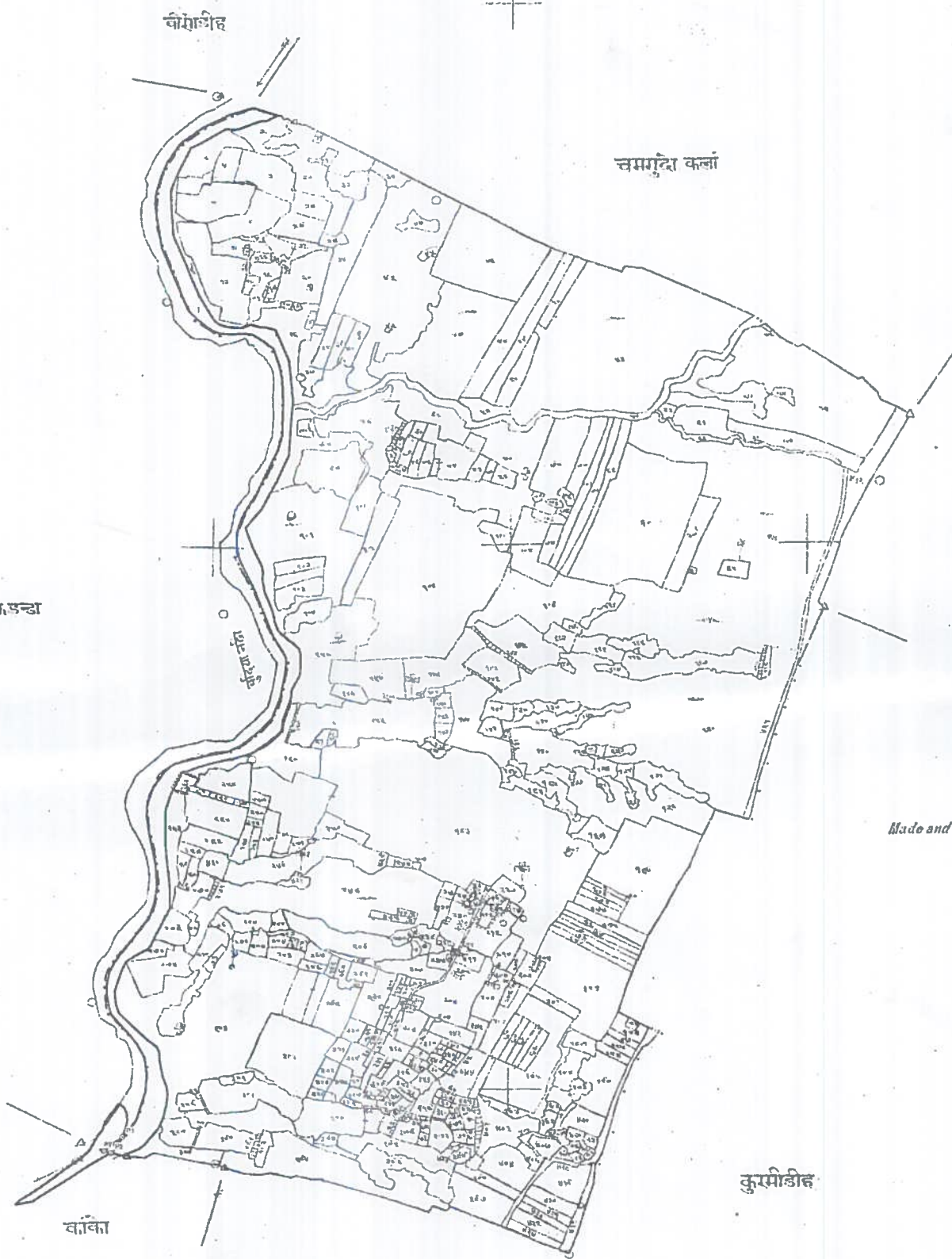
Proposed Ghat of PO_KD_CD_DD_01, Block -Jainagar, District - Koderma, JHARKHAND



Jamkathi

महल नाम अमकली
ग्रामा नम्बर ४०
थाना जैनगर
परगना गुमा
जिला हजारीबाग
अमानाचरितमान की माल १८ ईस
सन १८९९-१९ ईसवी

जमना बाला मल	
१	सहनिवाग + जिनखारिजमनामनाम
२	मनामनामनाम
३	एकी कला
४	म.जा.कुला



नम्बर	अमकली
१६८	जैनगर
१७०	गुमा
१७२	चमगादा कला
१७४	गोमकुंडा
१७६	वांका
१७८	कुसीडीह
१८०	गिंमडीह

Made and Published Under The Authority of Government.



Scale 10" = 1 Mile	
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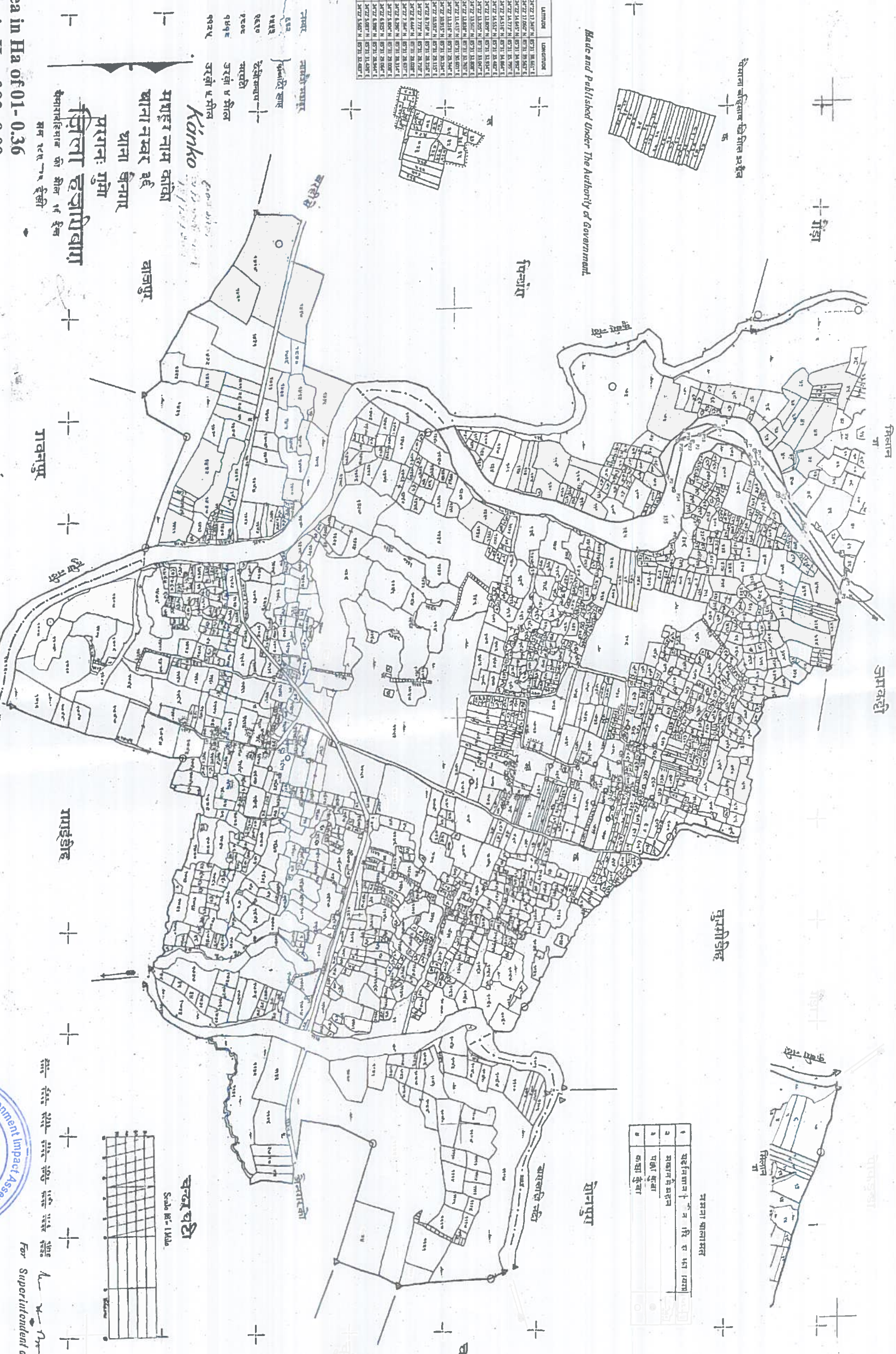
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	350684.1155	2696161.755	24°22' 17.799" N	85°31' 40.114" E
P2	350658.8178	2696141.869	24°22' 17.144" N	85°31' 39.224" E
P3	350668.3602	2696139.174	24°22' 17.060" N	85°31' 39.563" E

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	AREA_In_ACRE	REMARKS
Jainagar	Jamkathi	40	1	1	8.3933	
TOTAL AREA					8.3933	

Proposed Ghat of PO_KD_CD_DD_01,02,03,04,05,06, Block -Chandwara, District - Koderma, JHARKHAND

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PILLAR NO	LATITUDE	LONGITUDE
P1	25°22'11.347" N	87°13'38.541" E
P2	25°26'43.592" N	87°13'38.541" E
P3	25°26'43.592" N	87°13'38.541" E
P4	25°26'43.592" N	87°13'38.541" E
P5	25°26'43.592" N	87°13'38.541" E
P6	25°26'43.592" N	87°13'38.541" E
P7	25°26'43.592" N	87°13'38.541" E
P8	25°26'43.592" N	87°13'38.541" E
P9	25°26'43.592" N	87°13'38.541" E
P10	25°26'43.592" N	87°13'38.541" E
P11	25°26'43.592" N	87°13'38.541" E
P12	25°26'43.592" N	87°13'38.541" E
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P16	25°26'43.592" N	87°13'38.541" E
P17	25°26'43.592" N	87°13'38.541" E
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P21	25°26'43.592" N	87°13'38.541" E
P22	25°26'43.592" N	87°13'38.541" E
P23	25°26'43.592" N	87°13'38.541" E
P24	25°26'43.592" N	87°13'38.541" E



Proposed Area in Ha of 01- 0.36
 Proposed Area in Ha of 02- 0.09
 Proposed Area in Ha of 03- 0.16
 Proposed Area in Ha of 04- 0.20
 Proposed Area in Ha of 05- 0.10
 Proposed Area in Ha of 06- 0.18

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA In ACRE	REMARKS
Chandwara	KONKO	36	1	135	14.3294	
					TOTAL AREA	14.3294



Legend
 PILLAR POINT
 PROPOSED GHAT
 VILLAGE WISE AREA

१	सर्वोत्तम	सर्वोत्तम	२५
२	सर्वोत्तम	सर्वोत्तम	२५
३	सर्वोत्तम	सर्वोत्तम	२५
४	सर्वोत्तम	सर्वोत्तम	२५

बुद्धाय नमः

धुमाना बाहिमाय पो भोला अरुईव

† पिंडा

विज्ञान
१

ਜਾਮ ਕਾਨੂੰ

श्रीगुरुभ्यो नमः

चन्द्रघटी
Scale 1/8" = 1 Mile

Scudo R-1 M10

प्ररगनः गुप्ता
जिला हजामिबाग
सैय्यालहिमाबाग पो. भोल १६ ई.व
सम २८६-१३ ई.को

गङ्गा

गण्डकी

For Superintendent of Survey.

Legend

- **PILLAR POINT**

PROPOSED GHAT

☐ VILLAGE WISE AREA

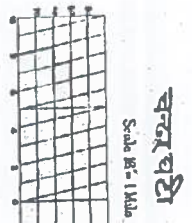
Proposed Area in Ha of 01- 0.36
Proposed Area in Ha of 02- 0.09
Proposed Area in Ha of 03- 0.16
Proposed Area in Ha of 04- 0.20
Proposed Area in Ha of 05- 0.10
Proposed Area in Ha of 06- 0.18

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	AREA_in_ACRE	REMARKS
Chandwara	KONKO	36	1	135	14.3294	
TOTAL AREA					14.3294	



१	शरीरगतान्तरितमन्त्रिजगत्प्रधान	५५
२	मन्त्राणां प्रवृत्तिः	५५
३	प्रवृत्तिः	५५
४	कर्मशुद्धिः	५५

पुस्तकालय संख्या ५७



Legend

- ☐ PILLAR POINT
☐ PROPOSED GHAT
☐ VILLAGE WISE AREA

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	AREA_In_ACRE	REMARKS
Chandwara	KONKO	36	1	135	14.3294	
TOTAL AREA					14.3294	

Proposed Area in Ha of 01-0.36
Proposed Area in Ha of 02-0.09
Proposed Area in Ha of 03-0.16
Proposed Area in Ha of 04-0.20
Proposed Area in Ha of 05-0.10
Proposed Area in Ha of 06-0.18

महेश्वरनाम गगईडीर
घाना नम्बर ३४
घाना जैनागर
परगन: गुमा
जिला हजगिबाग
सैमानावडिवाव की मोन १६ ईन्च
सन १८९१-९२ ईस्वी

पेमाना अन्विष्टाश्च क्षे मांन ३२ ईय

Made and Published Under The Authority of Government

कांको

नमूना ज्ञानमत

१	सहजानपु लीन साहित्य भाषाया	२०१५
२	महान मे महान	२०१५
३	पञ्चा कथा	०
४	कसा केता	०

नमो	नामो भगवते
१६८	नमो भगवते
१८४	नमो भगवते
२३६	नमो भगवते
३७६	नमो भगवते

मदनपुर

चन्द्रप्रदी

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Seite 16 = 1. Mal

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• C. m. 2960. Motive 2

For Superintendent of Survey.

SLUGI NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRE	REMARKS
Chandwara	GaraIndih	34	1	373	6.631	
Chandwara	GaraIndih	34	1	699	1.66	
TOTAL AREA					8.291	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	351015.842	2694041.496	24°21' 8.997"N	85°31' 52.681"E
P2	350991.9056	2694018.078	24°21' 8.227"N	85°31' 51.840"E
P3	350885.2643	2693961.781	24°21' 6.395"N	85°31' 51.602"E
P4	350995.1384	2693978.368	24°21' 6.938"N	85°31' 51.970"E
P5	350993.1889	2693959.33	24°21' 6.318"N	85°31' 51.915"E
P6	351011.781	2693984.015	24°21' 7.095"N	85°31' 52.559"E
P7	351003.0504	2693868.438	24°21' 3.367"N	85°31' 52.292"E
P8	351201.7782	2693791.818	24°21' 0.945"N	85°31' 59.371"E
P9	351197.1335	2693779.094	24°21' 0.530"N	85°31' 59.211"E

Proposed Area in Ha of 10- 0.076
Proposed Area in Ha of 11- 0.65

Legend

© PILLAR POINT

PROPOSED GHAT

☐ VILLAGE WISE AREA

Proposed Ghat of PO_KD_CD_DD_10,11, Block -Chandwara, District - Koderma, JHARKHAND



Garaindih

मशहूर नाम गगईडीह
ग्रामा नम्बर ३४
ग्रामा जैनागर
परगना गंगा
जिला हजारीबाग
सैमाना ब्रिटिशों के माल १९ ई.पू.
सन १८५१-५२ ई.पू.

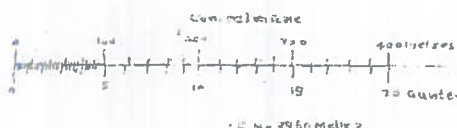
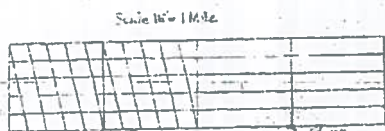
सैमाना ब्रिटिशों के माल १९ ई.पू.

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कांको

नम्बर नाम
१६६ चारवाडी गंगा
१६७ चारवाडी गंगा
२३४ देवी मन्दा
२३५ देवी मन्दा

नमूना कनामत	
१	सर्वेक्षण के निम्न भाग में जमीन का माप
२	माला में मन्दा
३	पट्टा में माप
४	करीब कनामत



For Superintendent of Survey.

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRE	REMARKS
Chandwara	Garaindih	34	1	373	6.631	
Chandwara	Garaindih	34	1	699	1.66	
TOTAL AREA					8.291	

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	351015.842	2694041.496	24°21' 8.997" N	85°31' 52.681" E
P2	350991.9056	2694018.078	24°21' 8.227" N	85°31' 51.840" E
P3	350985.2643	2693961.781	24°21' 6.395" N	85°31' 51.626" E
P4	350995.1384	2693978.368	24°21' 6.938" N	85°31' 51.970" E
P5	350993.3989	2693959.33	24°21' 6.318" N	85°31' 51.915" E
P6	351011.781	2693983.015	24°21' 7.095" N	85°31' 52.559" E
P7	351003.0504	2693868.438	24°21' 3.367" N	85°31' 52.292" E
P8	351201.7782	2693791.818	24°21' 0.945" N	85°31' 59.371" E
P9	351197.1335	2693779.094	24°21' 0.530" N	85°31' 59.211" E

Proposed Area in Ha of 10- 0.076
Proposed Area in Ha of 11- 0.65

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Plate D

(As per JSAC Cadastral Map of Akto River)

मधुकर नाम गोपाल सिंह

शाना नमर ७८

शाना जैनग

परदानः गुभा

३५३

सम १८११-१२ ई.पू.

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१	यह निश्चय है कि न्यायिक सम्भवाभाव	हाँ
२	समान ग सपुन	☐ हाँ ☒ नहीं
३	पक्षी कुंवा	०
४	कसो कुंवा	०

निर्वाण

पं. ५०५६

पाना

नाम	नाम
द्वितीय	द्वितीय
कवरीस्थान	कवरीस्थान
दाहपट्टीली	दाहपट्टीली
अवादीस्थान	अवादीस्थान
इमानबाड़ा	इमानबाड़ा

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पञ्जाब वल्लिखन विभाग २२ ई०

मुन्नाटांड

पहापुर

कल्लोसे

प्रकाशी नदी

किनार को

किनार

सांख

कल्लोसेली

Scale 1/1000

5 Miles

१०० २०० ३०० ४०० ५०० ६०० ७०० ८०० ९०० १०००

ककरवालि
—१—

गुण

$$\frac{0.84}{1981} \quad \frac{0.1}{1989} \quad \frac{0.0}{1994} \quad \frac{0.84}{1984} \quad \frac{0.81}{1989} \quad \frac{0.82}{1992} \quad \frac{0.0}{1996} \quad \frac{0.0}{1997}$$

For Superintendent of Survey

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	361573.2799	269910.1891	24°23' 40.623" N	85°37' 59.868" E
P2	361565.6931	269480.075	24°23' 39.945" N	85°37' 59.606" E
P3	361565.0681	269459.315	24°23' 39.595" N	85°37' 59.695" E
P4	361580.0205	269484.786	24°23' 39.307" N	85°37' 59.407" E
P5	361574.7794	269464.785	24°23' 38.785" N	85°37' 59.407" E
P6	361611.5919	269449.386	24°23' 38.175" N	85°38' 0.941" E
P7	361659.9614	269464.055	24°23' 37.545" N	85°38' 0.005" E
P8	361652.9614	269464.055	24°23' 37.545" N	85°38' 0.005" E

**Proposed Area in Ha of 03- 0.63
Proposed Area in Ha of 07- 0.74**

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRES	LAND TYPE	REMARKS
JAMUNA	GOPIALDOH	79	1	1551	2.7531	RYTNI	

Legend

- PILLAR POINT

PROPOSED GHAT

☐ VILLAGE WISE AREA

Proposed Ghat of PO_KD_JN_AK_03,04,, Block -Jainagar, District - Koderma, JHARKHAND

Kakarochali

मण्डल नाम ककरचौली चारल नामर
थाना नमर १२५
थाना क्षेत्रा
परगना गुणे
जिला खजुरिया
भारत सरकार की सेवा में

नमर २
ककरचौली
ककरचौली
ककरचौली
ककरचौली
ककरचौली
ककरचौली
ककरचौली

1	यह क्षेत्र जिला के अंतर्गत है	2	यह क्षेत्र जिला के अंतर्गत है
3	यह क्षेत्र जिला के अंतर्गत है	4	यह क्षेत्र जिला के अंतर्गत है
5	यह क्षेत्र जिला के अंतर्गत है	6	यह क्षेत्र जिला के अंतर्गत है
7	यह क्षेत्र जिला के अंतर्गत है	8	यह क्षेत्र जिला के अंतर्गत है

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PILLAR NO	EASTING	NORTHING	COORDINATE	LONGITUDE
P1	361365.6931	269488.076	24°21'39.949" N	85°37'59.608" E
P2	361545.4463	269489.175	24°21'39.067" N	85°38'5.996" E
P3	361372.6837	269487.949	24°21'39.622" N	85°37'59.859" E
P4	361418.432	269486.914	24°21'39.778" N	85°38'1.485" E
P5	361574.7734	269483.789	24°21'38.576" N	85°38'7.042" E
P6	361549.2139	269482.481	24°21'38.070" N	85°38'6.141" E
P7	361713.604	269473.072	24°21'34.945" N	85°38'12.008" E
P8	361679.0751	269476.195	24°21'36.737" N	85°38'10.763" E

सिलाना चारल नामर २

Scale 1:1000

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRE	LAND TYPE	REMARKS
JAINAGAR	JAINAGAR	125	1	1	1.483	RYT	
JAINAGAR	JAINAGAR	125	1	207	1.483	RYT	
TOTAL AREA					2.966		

गोपालडीह

सांघ

तयिन

हुमरी

चुसड

पहरपुर

सिलाना चारल नामर २

सिलाना चारल नामर २

सिलाना चारल नामर २

Legend

PROPOSED GHAT
VILLAGE WISE AREA



Proposed Ghat of PO_KD_JN_AK_03,04,, Block -Jainagar,District - Koderma, JHARKHAND

Gopaldih

मण्डल नाम गोपाल झीर

प्रान्त नम्बर ७६

प्रान्त जैनगर

परगना: गुप्ता

जिला कठियावाडा

विमानचित्राव की शील १६ ई.स

सम १८९१-१२ ई.स

1	सर्वेक्षण प्रान्त	2	सर्वेक्षण प्रान्त
3	सर्वेक्षण प्रान्त	4	सर्वेक्षण प्रान्त
5	सर्वेक्षण प्रान्त	6	सर्वेक्षण प्रान्त
7	सर्वेक्षण प्रान्त	8	सर्वेक्षण प्रान्त
9	सर्वेक्षण प्रान्त	10	सर्वेक्षण प्रान्त

जैनगर

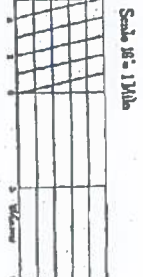
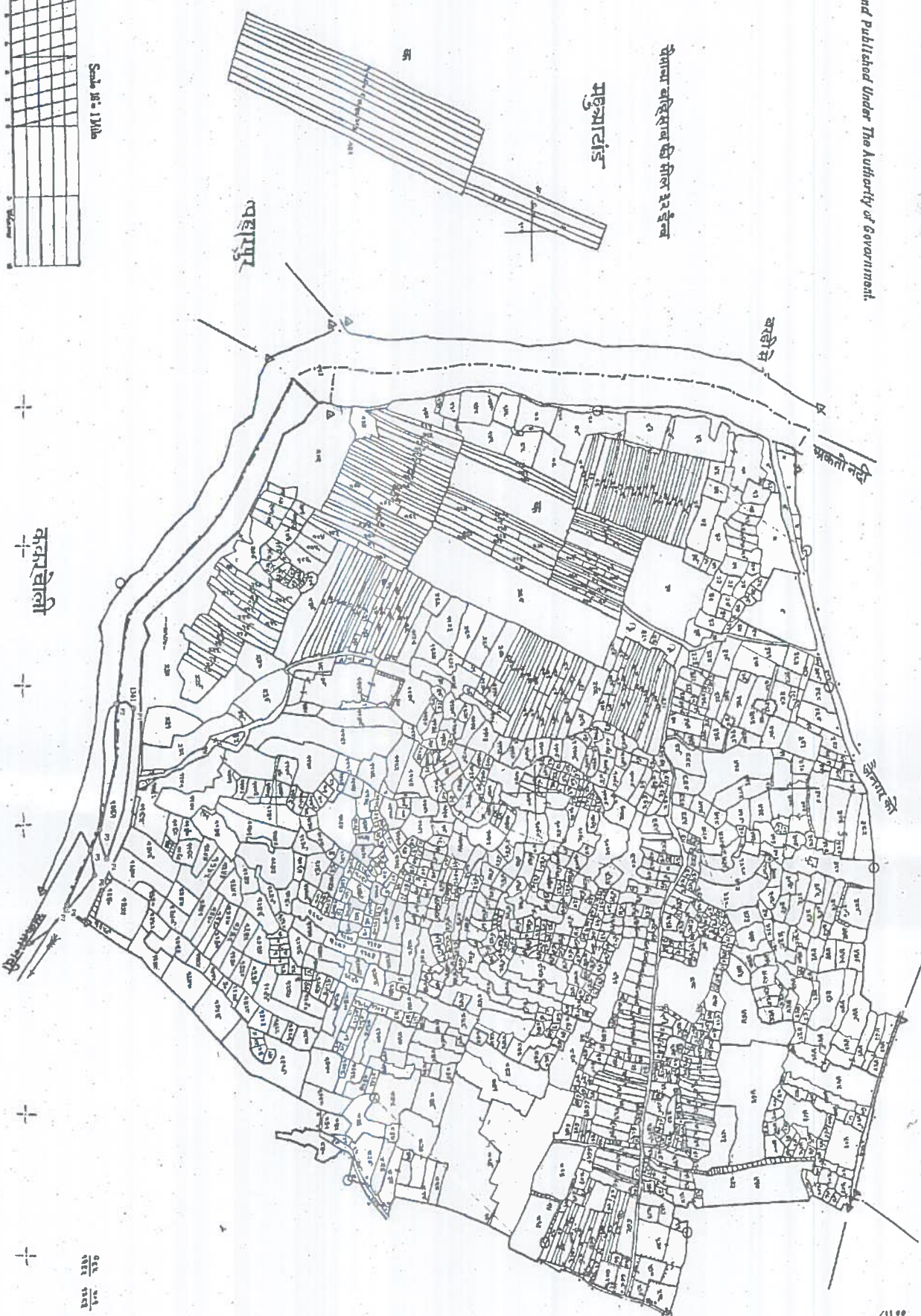
पहोडीर

जैनगर

नाम प्रान्त
222
223
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नाम प्रान्त
222
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225
226
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ककचेली

For Superintendent of Survey

Legend

PILLAR POINT

PROPOSED GHAT

VILLAGE WISE AREA

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	361373.2799	259491.8891	24°21' 40.823" N	85°37' 59.868" E
P2	361365.6931	259488.0761	24°21' 39.849" N	85°37' 59.608" E
P3	361345.4483	259489.1751	24°21' 39.857" N	85°38' 5.595" E
P4	361380.0985	259484.7561	24°21' 39.392" N	85°38' 7.047" E
P5	361374.7734	259484.7281	24°21' 38.575" N	85°38' 7.047" E
P6	361311.9919	259484.3561	24°21' 38.787" N	85°38' 8.347" E
P7	361359.6511	259485.8541	24°21' 37.373" N	85°38' 10.008" E
P8	361352.9434	259485.7791	24°21' 37.344" N	85°38' 9.807" E

Proposed Area in Ha of 03-0.63
Proposed Area in Ha of 07-0.74

Block Name	Block Number	Block Area	Block Type	Block Status
JAINAGAR	71	1.158	71/01	71/01
JAINAGAR	72	1.158	72/01	72/01



Proposed Ghat of PO_KD_JN_AK_03,04, Block-Jainagar, District - Koderma, JHARKHAND

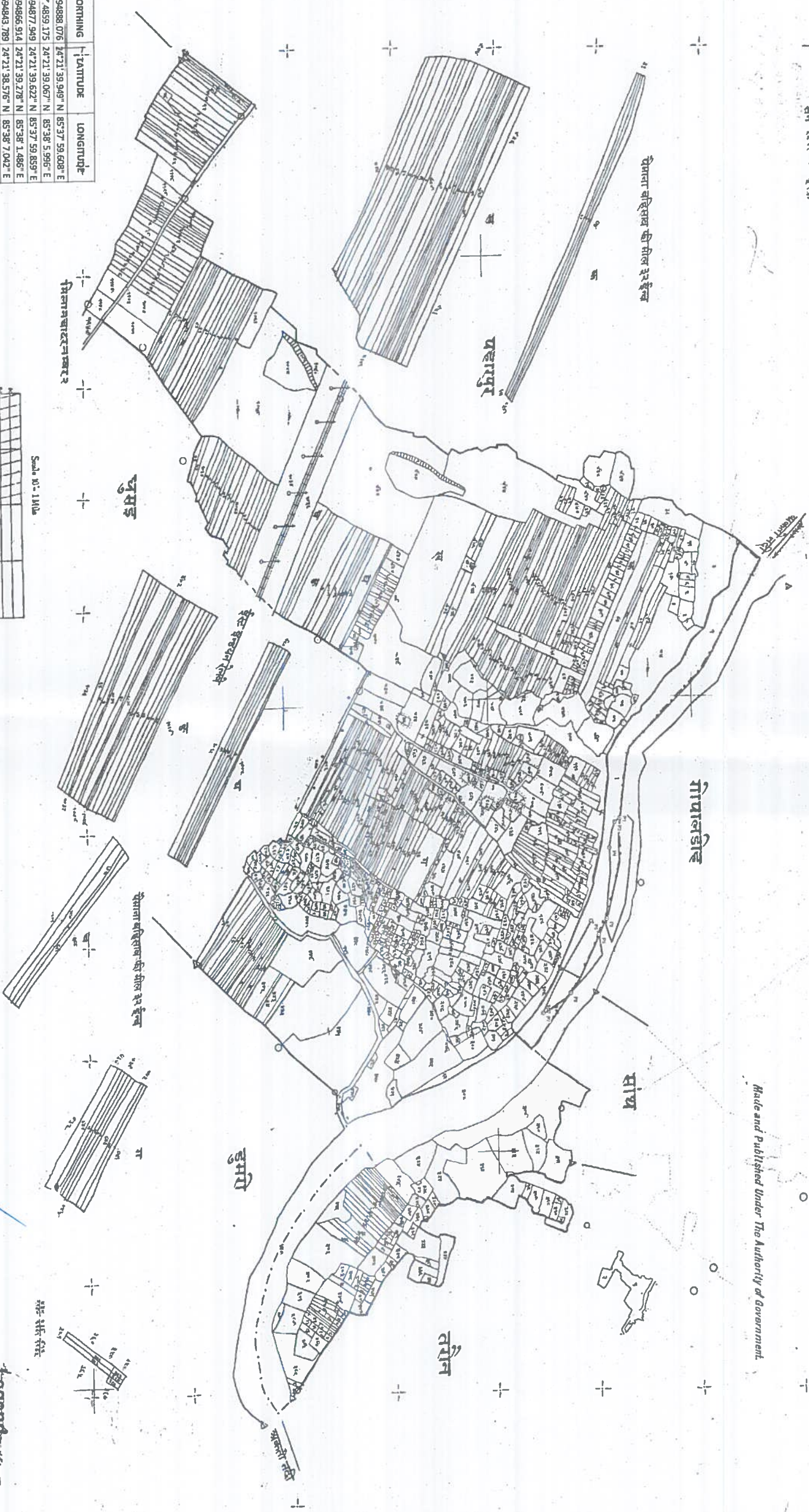
Kakarchohi

मधुपुर नाम ककरचौली चार नमर
थाना नमर २५
थाना जिनगर
परगना गुणे
जिला हजारीबाग
धनबाद जिला की सीमा पर है
सन १९९९-०० ईस्वी

नमर २
नामो भगवत
ककरचौली
ककरचौली
ककरचौली
ककरचौली
ककरचौली
ककरचौली
ककरचौली

1	यह जमीन १००० वर्ग मीटर है	1000
2	यह जमीन १००० वर्ग मीटर है	1000
3	यह जमीन १००० वर्ग मीटर है	1000
4	यह जमीन १००० वर्ग मीटर है	1000

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PILLAR NO	EASTING	NORTHING	COORDINATE	LONGITUDE
P1	361365.6931	2694888.076	24°21'39.949" N	85°37'59.608" E
P2	361545.4463	2694888.076	24°21'39.949" N	85°38'5.995" E
P3	361372.6837	2694887.949	24°21'39.622" N	85°37'59.859" E
P4	361418.432	2694886.914	24°21'39.278" N	85°38'1.485" E
P5	361574.7734	2694843.789	24°21'38.576" N	85°38'7.042" E
P6	361549.2139	2694828.481	24°21'38.070" N	85°38'6.141" E
P7	361713.604	2694730.772	24°21'34.945" N	85°38'12.008" E
P8	361679.0751	2694786.195	24°21'36.737" N	85°38'10.763" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRES	LAND TYPE	REMARKS
JAINAGAR	KAKARCHOHI	125	1	307	1.463	RV/1	
JAINAGAR	KAKARCHOHI	125	1	307	1.463	RV/1	

Legend
PROPOSED GHAT
VILLAGE WISE AREA

Proposed Area in Ha of 03-0.74
Proposed Area in Ha of 04-0.63



Proposed Ghat of PO_KD_JN_AK_04, Block-Jainagar, District - Koderma, JHARKHAND



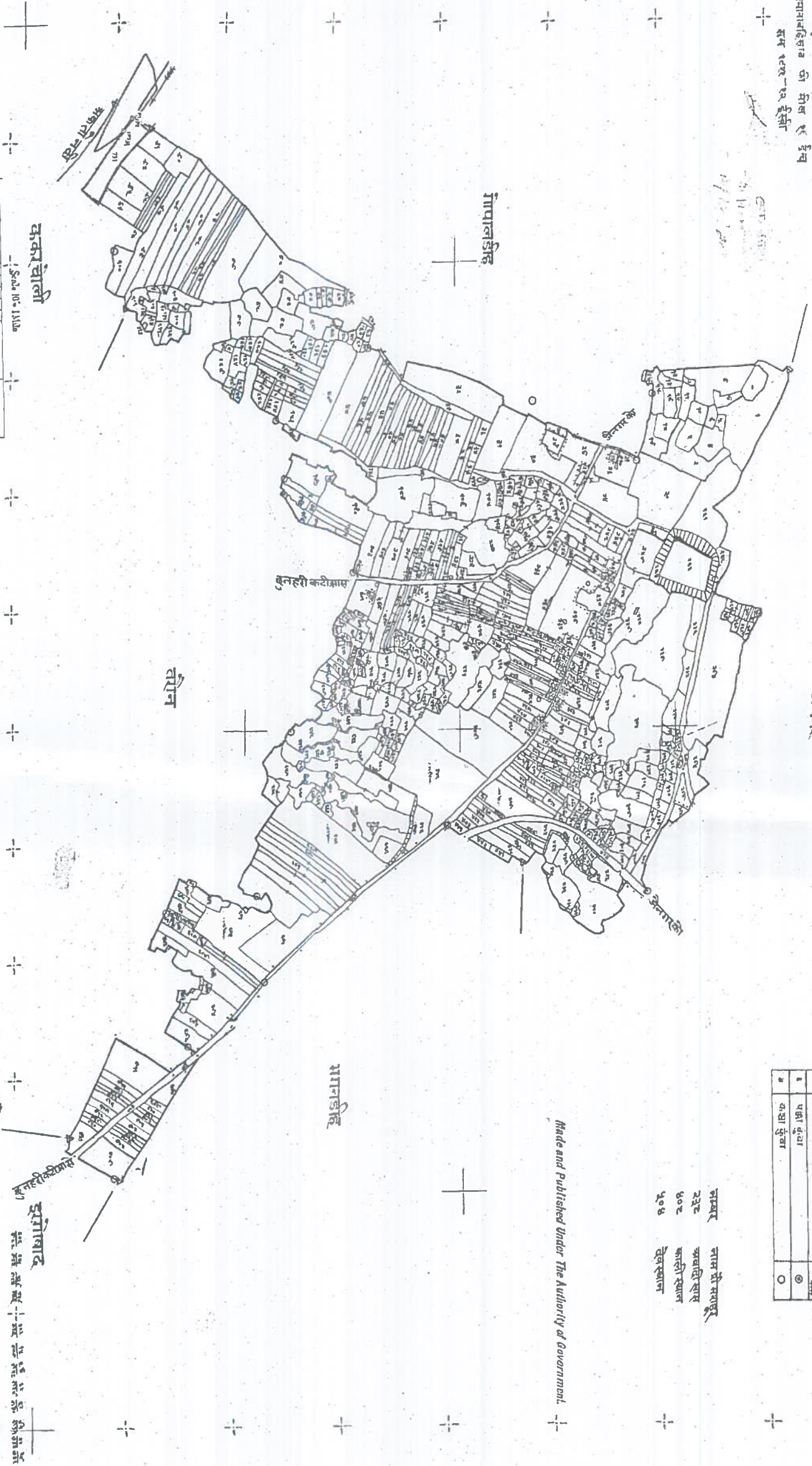
Santh

समग्र नाम संघ
श्रीमानसवर २२२
श्रीमान जैनग
परान: गुमे
जिला हजारीबाग
बेगानहिराह की सीमा ६ ईव
रूम १८२-२२ ईसी

समग्र स्थानांतर	
१	समग्र स्थानांतर जैनग जैनग जैनग
२	समग्र स्थानांतर
३	पहला मुंदा
४	दूसरा मुंदा
५	०

नाम श्री समग्र
२२२
४०८
२०४
वैद्यस्थान

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BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRES	LAND TYPE	REMARKS
1	1	1	1	1	1.242	1	1
2	2	2	2	2	1.242	2	2
3	3	3	3	3	1.242	3	3
4	4	4	4	4	1.242	4	4
5	5	5	5	5	1.242	5	5
6	6	6	6	6	1.242	6	6
7	7	7	7	7	1.242	7	7
8	8	8	8	8	1.242	8	8
9	9	9	9	9	1.242	9	9
10	10	10	10	10	1.242	10	10
11	11	11	11	11	1.242	11	11
12	12	12	12	12	1.242	12	12
13	13	13	13	13	1.242	13	13
14	14	14	14	14	1.242	14	14
15	15	15	15	15	1.242	15	15
16	16	16	16	16	1.242	16	16
17	17	17	17	17	1.242	17	17
18	18	18	18	18	1.242	18	18
19	19	19	19	19	1.242	19	19
20	20	20	20	20	1.242	20	20
21	21	21	21	21	1.242	21	21
22	22	22	22	22	1.242	22	22
23	23	23	23	23	1.242	23	23
24	24	24	24	24	1.242	24	24
25	25	25	25	25	1.242	25	25
26	26	26	26	26	1.242	26	26
27	27	27	27	27	1.242	27	27
28	28	28	28	28	1.242	28	28
29	29	29	29	29	1.242	29	29
30	30	30	30	30	1.242	30	30
31	31	31	31	31	1.242	31	31
32	32	32	32	32	1.242	32	32
33	33	33	33	33	1.242	33	33
34	34	34	34	34	1.242	34	34
35	35	35	35	35	1.242	35	35
36	36	36	36	36	1.242	36	36
37	37	37	37	37	1.242	37	37
38	38	38	38	38	1.242	38	38
39	39	39	39	39	1.242	39	39
40	40	40	40	40	1.242	40	40
41	41	41	41	41	1.242	41	41
42	42	42	42	42	1.242	42	42
43	43	43	43	43	1.242	43	43
44	44	44	44	44	1.242	44	44
45	45	45	45	45	1.242	45	45
46	46	46	46	46	1.242	46	46
47	47	47	47	47	1.242	47	47
48	48	48	48	48	1.242	48	48
49	49	49	49	49	1.242	49	49
50	50	50	50	50	1.242	50	50
51	51	51	51	51	1.242	51	51
52	52	52	52	52	1.242	52	52
53	53	53	53	53	1.242	53	53
54	54	54	54	54	1.242	54	54
55	55	55	55	55	1.242	55	55
56	56	56	56	56	1.242	56	56
57	57	57	57	57	1.242	57	57
58	58	58	58	58	1.242	58	58
59	59	59	59	59	1.242	59	59
60	60	60	60	60	1.242	60	60
61	61	61	61	61	1.242	61	61
62	62	62	62	62	1.242	62	62
63	63	63	63	63	1.242	63	63
64	64	64	64	64	1.242	64	64
65	65	65	65	65	1.242	65	65
66	66	66	66	66	1.242	66	66
67	67	67	67	67	1.242	67	67
68	68	68	68	68	1.242	68	68
69	69	69	69	69	1.242	69	69
70	70	70	70	70	1.242	70	70
71	71	71	71	71	1.242	71	71
72	72	72	72	72	1.242	72	72
73	73	73	73	73	1.242	73	73
74	74	74	74	74	1.242	74	74
75	75	75	75	75	1.242	75	75
76	76	76	76	76	1.242	76	76
77	77	77	77	77	1.242	77	77
78	78	78	78	78	1.242	78	78
79	79	79	79	79	1.242	79	79
80	80	80	80	80	1.242	80	80
81	81	81	81	81	1.242	81	81
82	82	82	82	82	1.242	82	82
83	83	83	83	83	1.242	83	83
84	84	84	84	84	1.242	84	84
85	85	85	85	85	1.242	85	85
86	86	86	86	86	1.242	86	86
87	87	87	87	87	1.242	87	87
88	88	88	88	88	1.242	88	88
89	89	89	89	89	1.242	89	89
90	90	90	90	90	1.242	90	90
91	91	91	91	91	1.242	91	91
92	92	92	92	92	1.242	92	92
93	93	93	93	93	1.242	93	93
94	94	94	94	94	1.242	94	94
95	95	95	95	95	1.242	95	95
96	96	96	96	96	1.242	96	96
97	97	97	97	97	1.242	97	97
98	98	98	98	98	1.242	98	98
99	99	99	99	99	1.242	99	99
100	100	100	100	100	1.242	100	100



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	361659.6631	2694805.954	24°21' 37.373" N	85°38' 10.068" E
P2	361657.875	2694802.75	24°21' 37.268" N	85°38' 10.005" E
P3	361679.0751	2694786.195	24°21' 36.737" N	85°38' 10.763" E

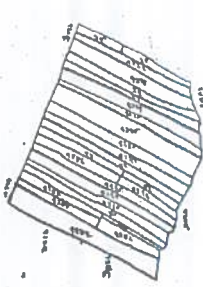
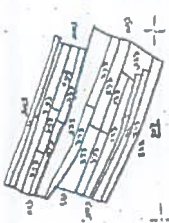
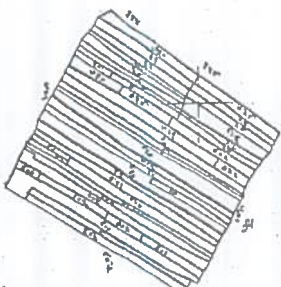
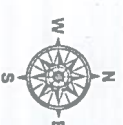
Proposed Area in Ha of 04-0.63



Signature

For Superintendent of Survey
Legend
PILLAR POINT
PROPOSED GHAT
VILLAGE WISE AREA

Proposed Chat of PO_KD_JN_AK_05,, Block -Jainagar,District - Koderma, JHARKHAND



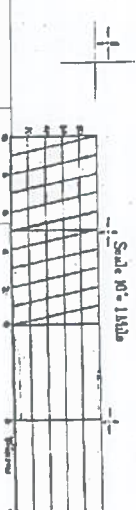
नमस्कार
३३३
४०६
५१०
५१५
नमस्कार

१	वर्ग क्रमांक	१
२	मालिक का नाम	२
३	प्लॉट नंबर	३
४	कच्चा क्षेत्र	४

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Hydro bid
कचकनाल

मशहूर नाम इरोगावट
बनाना नमर १२२
धाना जैमर
परगना: गुप्ता
जिला खजुरीबाग
क्षेत्रफल: १४ ईव
सर्वे १८९९ ई. ई. ई. ई.



PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	364542.2379	2693488.674	24°20' 55.464" N	85°39' 52.802" E
P2	365013.6833	2693172.407	24°20' 45.331" N	85°40' 9.637" E
P3	364863.4375	2693233	24°20' 47.254" N	85°40' 4.286" E
P4	364508.375	2693456.75	24°20' 54.416" N	85°39' 51.627" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PILOT NO	AREA IN ACRES	LAND TYPE	REMARKS
JAINAGAR	JAINAGAR	319	1	1310	12.887	RIVER	
JAINAGAR	JAINAGAR	319	1	1479	1.945	RIVER	
					TOTAL AREA	14.832	

Proposed Area in Ha of 05-3.82



Legend

- PILLAR POINT
- PROPOSED CHAT
- VILLAGE WISE AREA



मधुर नाम सुमाटिं

श्रीगोविन्द

शाना
नाना

परगानः गुप्ता

जिंआ हज्जोबाग

मैनावाबहिमाव की मीन १५ दिस
मन १८१-१२ दिसी

पैमाना बहिषाद को मिल ३२ ई-व

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१	धर्मशास्त्रसंस्कारनवनाशना	१०५
२	मयानसंस्कृत	१०६
३	पञ्चाङ्ग	१०७
४	कथाकुंवा	१०८

इरगोनाद

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ਕੁਲ ਸੁਭਾਯਨ ਕਿੱਥੇ

शुद्धि

प्राजापत्य

सह संशोधन लेख

Superintendent of Survey

नमः
१२५
७७१

नाम धैमशसू
सदादी सार
देवो स्तुतन सारमा दाव

Scale 10 = 1.5 hrs

202

नाम धर्मगुरु
साक्षात् साव
देवते स्तनन समादाव

$$\frac{1}{2}, \frac{3}{4}, \frac{5}{6}, \frac{7}{8}, \frac{9}{10}, \frac{11}{12}, \frac{13}{14}, \frac{15}{16}, \frac{17}{18}, \frac{19}{20}, \frac{21}{22}, \frac{23}{24}, \frac{25}{26}, \frac{27}{28}, \frac{29}{30}, \frac{31}{32}, \frac{33}{34}, \frac{35}{36}, \frac{37}{38}, \frac{39}{40}, \frac{41}{42}, \frac{43}{44}, \frac{45}{46}, \frac{47}{48}, \frac{49}{50}, \frac{51}{52}, \frac{53}{54}, \frac{55}{56}, \frac{57}{58}, \frac{59}{60}, \frac{61}{62}, \frac{63}{64}, \frac{65}{66}, \frac{67}{68}, \frac{69}{70}, \frac{71}{72}, \frac{73}{74}, \frac{75}{76}, \frac{77}{78}, \frac{79}{80}, \frac{81}{82}, \frac{83}{84}, \frac{85}{86}, \frac{87}{88}, \frac{89}{90}, \frac{91}{92}, \frac{93}{94}, \frac{95}{96}, \frac{97}{98}, \frac{99}{100}$$

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	364508.375	2693456.75	24°20' 54.416" N	85°39' 51.612" E
P2	364505.0645	2693451.031	24°20' 54.220" N	85°39' 51.450" E
P3	364683.4675	2693233	24°20' 47.254" N	85°40' 4.286" E
P4	364673.1161	2693275.007	24°20' 46.578" N	85°39' 59.612" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRE	LAND TYPE	REMARKS
JAINAGAR	SARMATANR	339	1	1	10.6085	RIVER	
TOTAL AREA					10.6085		

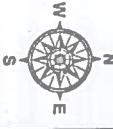
Proposed Area in Ha of 05-3.82

Legend

- **PILLAR POINT**

PROPOSED GHAT

☐ VILLAGE WISE AREA



Behradih

मण्डल नाम बिर्साडीह
ग्रामा नम्बर १४३

ग्रामा जिला

परगना: मुंठ

जिला कुर्गुवा

विधानसभा क्षेत्र की सीमा पर है

सन् १९८८ ई. में

नमूना खाना

1	ग्रामा नम्बर	143
2	ग्रामा क्षेत्र	143
3	ग्रामा क्षेत्र	143

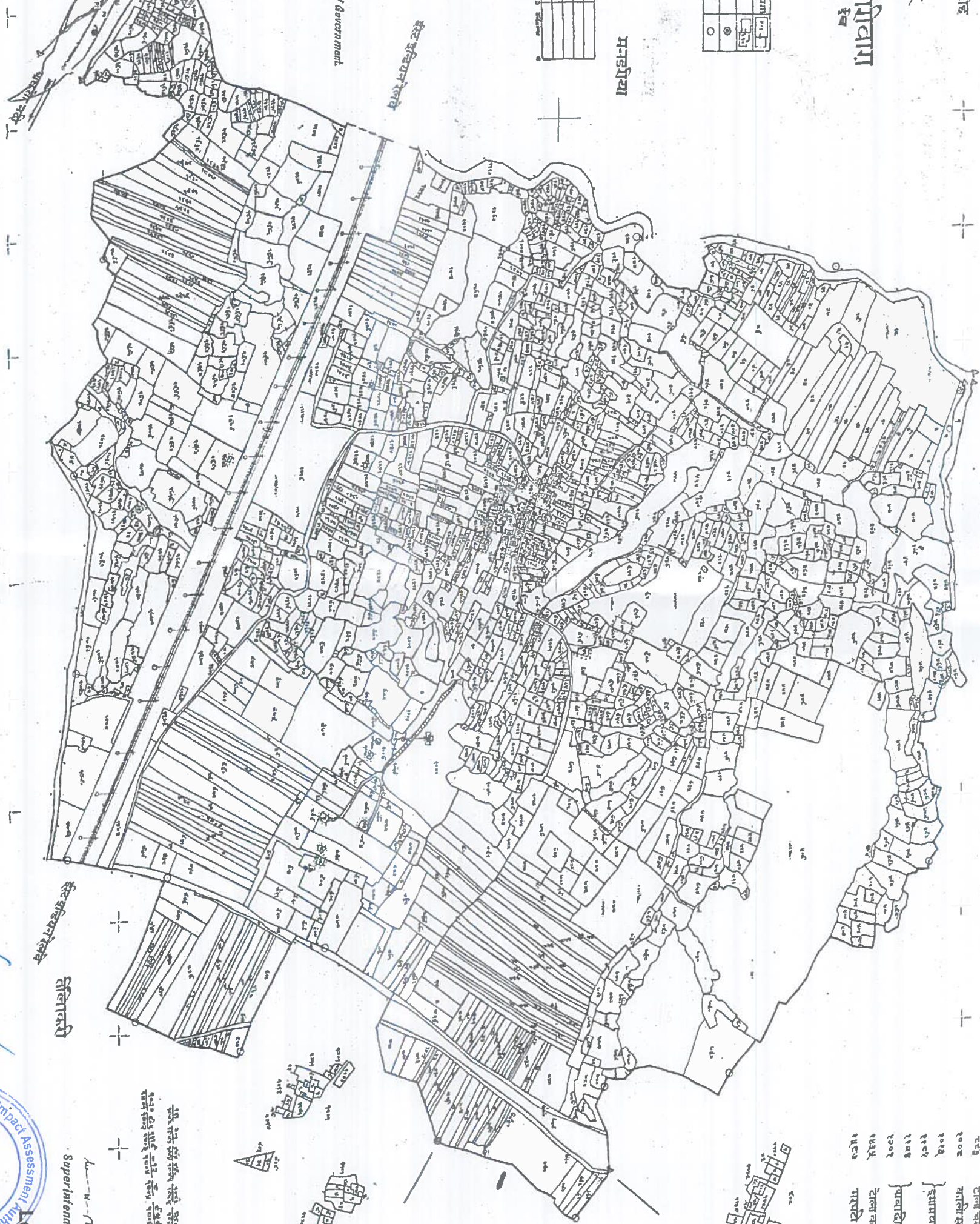
मानकिया



PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	305564.641	269703.154	24° 27' 11.307" N	85° 47' 38.697" E
P2	305553.013	269703.154	24° 27' 9.111" N	85° 47' 38.697" E
P3	305553.013	269703.154	24° 27' 9.111" N	85° 47' 38.697" E
P4	305553.013	269703.154	24° 27' 9.111" N	85° 47' 38.697" E
P5	305553.013	269703.154	24° 27' 9.111" N	85° 47' 38.697" E
P6	305553.013	269703.154	24° 27' 9.111" N	85° 47' 38.697" E
P7	305553.013	269703.154	24° 27' 9.111" N	85° 47' 38.697" E
P8	305553.013	269703.154	24° 27' 9.111" N	85° 47' 38.697" E
P9	305553.013	269703.154	24° 27' 9.111" N	85° 47' 38.697" E
P10	305553.013	269703.154	24° 27' 9.111" N	85° 47' 38.697" E
P11	305553.013	269703.154	24° 27' 9.111" N	85° 47' 38.697" E

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जोगीया टीला



Superintendent of Survey

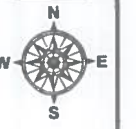
Legend

PILLAR POINT
PROPOSED GHAT
VILLAGE WISE AREA

Proposed Area in Ha of 06-0.49
Proposed Area in Ha of 07-0.76
Proposed Area in Ha of 08-0.94



Proposed Ghat of PO_KD_JN_AK_06,07,08,09,10,11,, Block -Jainagar,District - Koderma, JHARKHAND



Jogiati

मशहूर नाम जोगीचाटीला
थाना नम्बर १४१
थाना जैनगर
परगना गुमो
जिला हजारीबाग
पैमाना बहिषाब की मोल १९ ईस्वी
सन् १८९९-१० ईस्वी

पैमाना बहिषाब की मोल ३२ ईस्वी

नमूना थालामत

१	सहनिधान के लिये हारिज समझाया गया	१-१
२	मकान के सहन	१-२
३	पक्का कुंवा	०
४	कच्चा कुंवा	०

परतापपुर

पैमाना बहिषाब की मोल ३२ ईस्वी

मनडरीया

वेहाडीह

पैमाना बहिषाब की मोल ३२ ईस्वी

शतडीहा



नम्बर २०
३८८
१०८७
१९६३

नामश्री महाप्र
थाना बापटोह टोले
थालोखाना
धरती स्थान
अवधि स्थान

पैमाना बहिषाब की मोल ३२ ईस्वी

Authority of Government.

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	365492.7811	2692089.786	24°20' 10.288" N	85°47' 27.002" E
P2	365533.0313	2692083.5	24°20' 9.121" N	85°47' 28.447" E
P3	365483.8234	2692087.335	24°20' 10.206" N	85°47' 26.685" E
P4	365539.3187	2692031.118	24°20' 8.402" N	85°47' 29.383" E
P5	365530.1907	2692044.734	24°20' 8.832" N	85°47' 27.990" E
P6	365526.2994	2692035.868	24°20' 8.546" N	85°47' 28.210" E
P7	365570.3803	2692024.168	24°20' 8.179" N	85°47' 29.777" E
P8	365645.3877	2691977.168	24°20' 6.674" N	85°47' 32.454" E
P9	365703.7179	2691880.249	24°20' 3.867" N	85°47' 34.553" E
P10	365566.3451	2691979.035	24°20' 6.711" N	85°47' 29.649" E
P11	365661.1947	2691966.574	24°20' 6.335" N	85°47' 33.019" E
P12	365788.5046	2691845.469	24°20' 7.438" N	85°47' 37.576" E
P13	365756.4447	2691850.103	24°20' 7.871" N	85°47' 36.434" E
P14	365758.5839	2691850.339	24°20' 7.587" N	85°47' 36.513" E
P15	365791.5913	2691830.114	24°20' 7.945" N	85°47' 37.854" E
P16	365553.6111	2691886.13	24°20' 30.684" N	85°47' 28.945" E
P17	365586.1988	2691468.146	24°19' 50.107" N	85°47' 30.577" E
P18	365541.9235	2691484.461	24°19' 50.629" N	85°47' 30.175" E
P19	365576.254	2691463.717	24°19' 49.704" N	85°47' 25.694" E
P20	365449.8863	2691456.97	24°19' 48.539" N	85°47' 24.020" E
P21	365402.3409	2691421.584	24°19' 48.539" N	85°47' 24.020" E
P22	365576.254	2691463.717	24°19' 49.963" N	85°47' 30.175" E
P23	365277.1845	2691197.306	24°19' 41.210" N	85°47' 19.656" E
P24	365267.9469	2691163.57	24°19' 40.111" N	85°47' 19.339" E
P25	365304.3677	2690978.353	24°19' 34.101" N	85°47' 20.694" E
P26	365404.4852	2690934.508	24°19' 32.707" N	85°47' 24.261" E

Proposed Area in Ha of 06- 0.49
Proposed Area in Ha of 07- 0.76
Proposed Area in Ha of 08- 0.94
Proposed Area in Ha of 09- 2.86
Proposed Area in Ha of 10- 1.37
Proposed Area in Ha of 11- 1.45

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA In ACRE	LAND TYPE	REMARKS
JAINAGAR	JOGIATILA	141	1	1700	16.0947	RIVER	
JAINAGAR	JOGIATILA	141	1	753	5.5057	RIVER	
JAINAGAR	JOGIATILA	141	1	1468	3.5998	RIVER	
TOTAL AREA					25.2002		

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Superintendent of Survey.

Proposed Ghat of PO_KD_JN_AK_06,, Block -Jainagar,District - Koderma, JHARKHAND



Mandaria

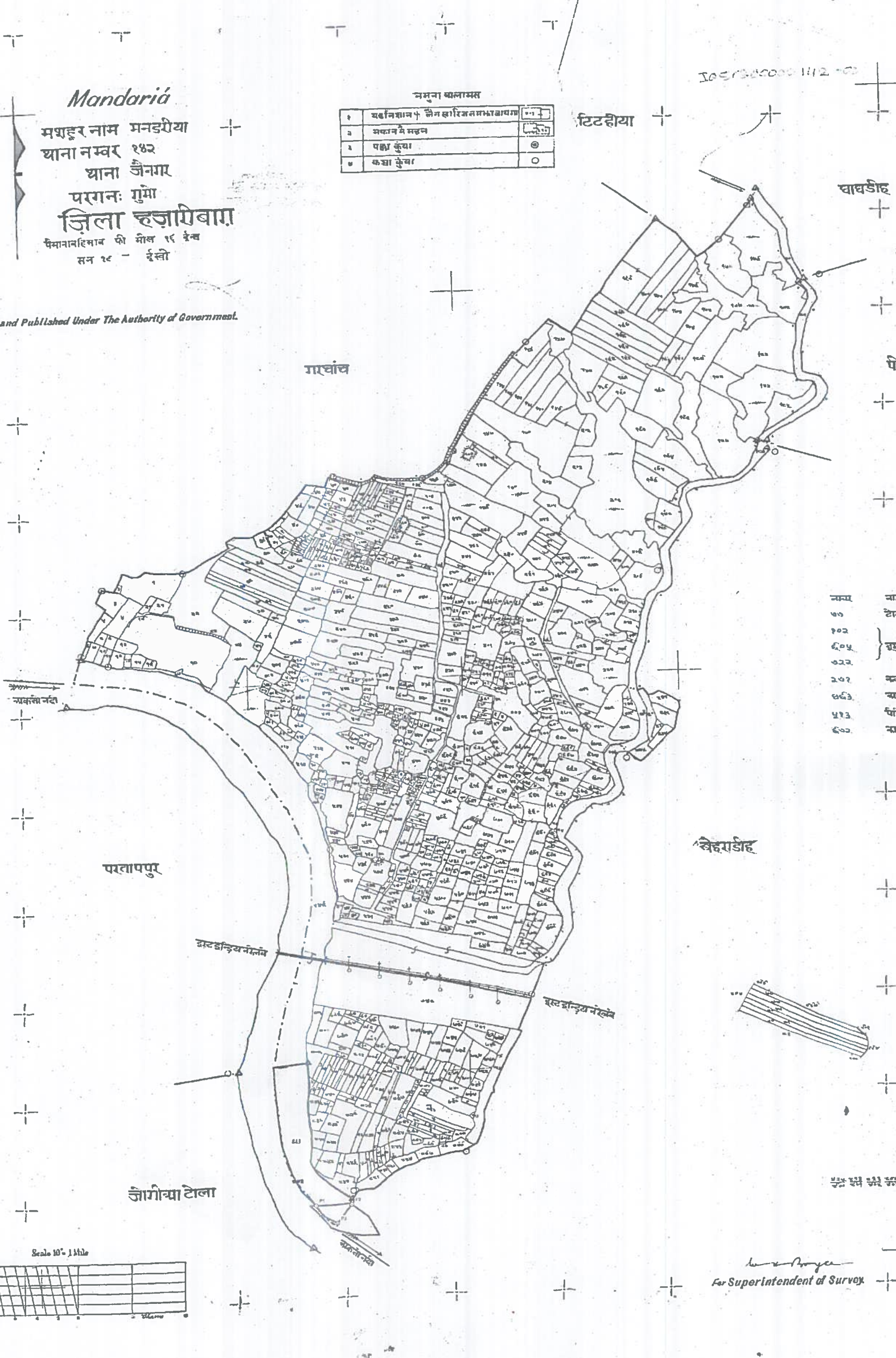
मशहूर नाम मनडरीया
थाना नम्बर १४२
थाना जैनगर
परगना: गुमा
ज़िला हजारीबाग
समानाधिकार की मील १६ ई.स.
सन १८ - ई.स.

नमूना खालामस

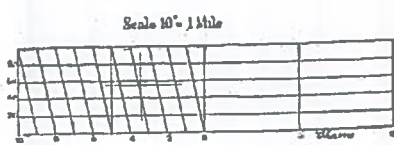
१	यहाँ निशान + जैग हजारीनमस भाग बाया	०.१
२	मकान के मकान	०.१
३	पहाड़ कुंवा	०
४	कसा कुंवा	०



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- ४७७ नमूना
- १०२ टोनाल टोना
- ६०५ नमूना
- ७२२ नमूना
- २०१ नमूना
- ७६३ नमूना
- ५१३ नमूना
- ६०२ नमूना



For Superintendent of Survey

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA In ACRE	LAND TYPE	REMARKS
JAINAGAR	MANDARIA	142	1	843	4.5347	RIVER	
					TOTAL AREA	4.5347	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	365492.7811	2692089.786	24°20' 10.288" N	85°40' 27.002" E
P2	365560.6443	2692091.354	24°20' 10.360" N	85°40' 29.409" E
P3	365533.0313	2692053.5	24°20' 9.121" N	85°40' 28.442" E

Proposed Area in Ha of 06- 0.49

- Legend**
- PILLAR POINT
 - PROPOSED GHAT
 - VILLAGE WISE AREA

Behradih

महानगर नाम वेहड़ाडीह
ग्रामाना नम्बर १४३

ग्रामाना जैनगर

परगना: गुम

जिला हजारीबाग

विभाजनक्षेत्र की सीमा पर है

सन १९९९ ई. से

नमूना स्थलफल

1	यह जिन ग्रामों की सीमा पर है	□
2	महानगर क्षेत्र	□
3	ग्राम क्षेत्र	□
4	कच्चा क्षेत्र	□

Scale 1:10,000

मनडिया

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	365560.6443	269201.354	24°20'10.387" N	85°40'29.407" E
P2	365553.0313	269203.5	24°20'9.121" N	85°40'29.407" E
P3	365559.3187	269203.118	24°20'8.402" N	85°40'29.387" E
P4	365611.4242	269204.686	24°20'8.397" N	85°40'31.257" E
P5	365611.4792	269204.197	24°20'8.197" N	85°40'31.257" E
P6	365570.3803	269204.188	24°20'8.179" N	85°40'29.777" E
P7	365645.3877	269197.188	24°20'6.674" N	85°40'32.454" E
P8	365661.1947	269196.574	24°20'6.335" N	85°40'33.017" E
P9	365667.5659	269201.793	24°20'7.294" N	85°40'31.817" E
P10	365765.5063	269187.25	24°20'4.114" N	85°40'36.757" E
P11	365771.8311	269180.296	24°20'4.475" N	85°40'36.954" E

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जोगीबाटीला

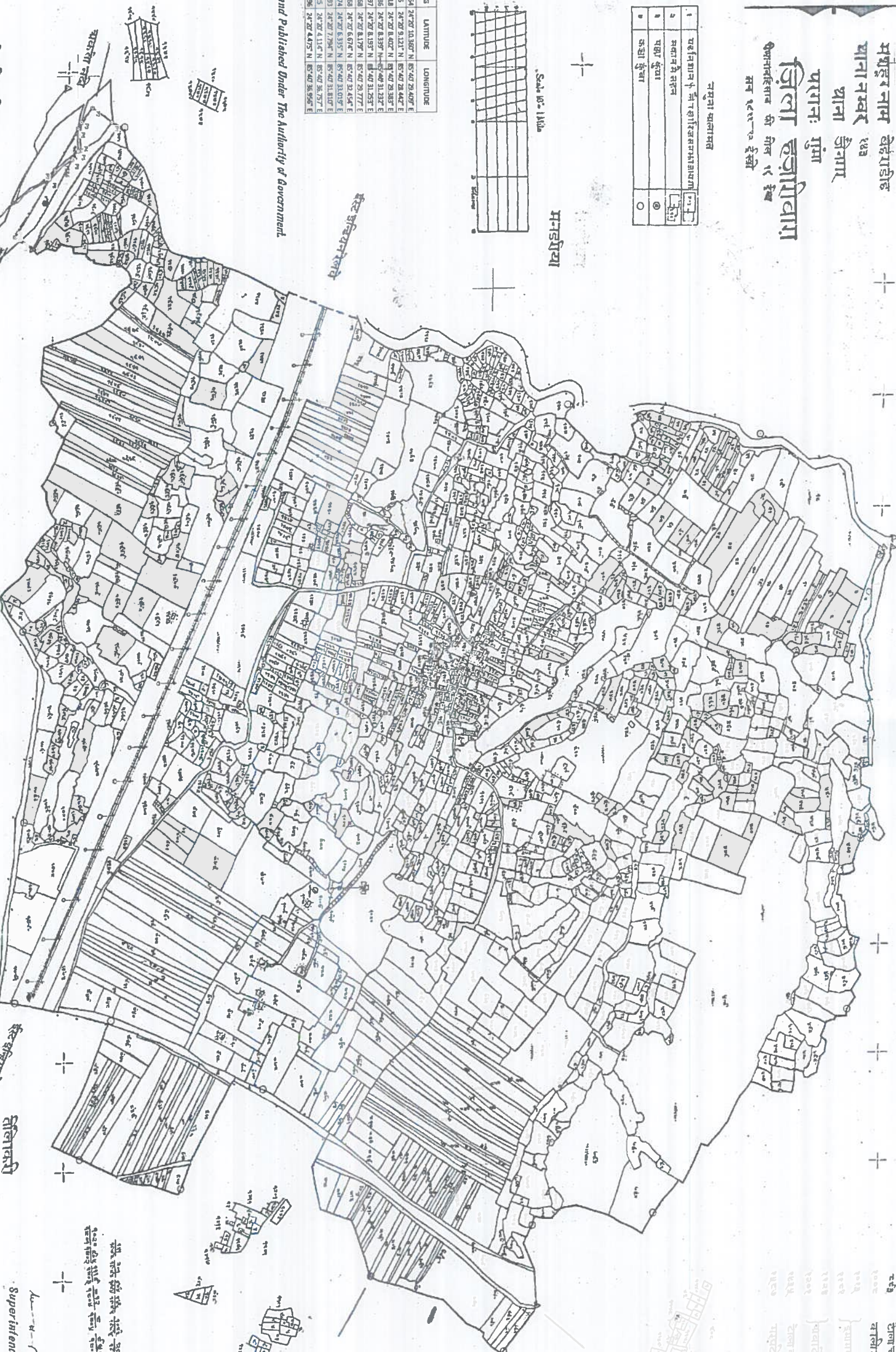
Proposed Area in Ha of 06-0.49
Proposed Area in Ha of 07-0.76
Proposed Area in Ha of 08-0.94

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRE	LAND TYPE
JAINAGAR	BEHRADH	143	1	1586	3.2879	RIVER
TOTAL AREA					3.2879	

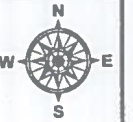


Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA



Proposed Ghat of PO_KD_JN_AK_06,07,08,09,10,11,, Block -Jainagar,District - Koderma, JHARKHAND



Jogiati

मशहूर नाम जोगीआटीला
थाना नम्बर १४१

थाना जैनागर

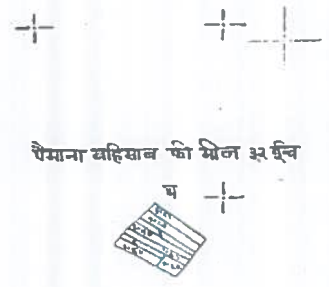
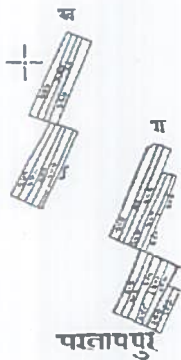
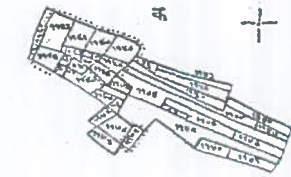
परगना: गुमो

जिला हजारीबाग

पैमाना जमिनाब की मोल १८ ईन्च
म १८९१-९२ ईस्वी

पैमाना जमिनाब की मोल ३२ ईन्च

पैमाना जमिनाब की मोल ३२ ईन्च

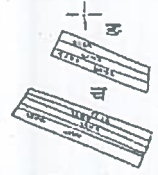


नमूना थानामत

१	सहनिधान ५ लिन हार्डिजसमभाशायाम	१११
२	मकान में सहन	११२
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परतापपुर

पैमाना जमिनाब की मोल ३२ ईन्च



गुवडीहा

मनडरीया

बेहगडीहा

बड़ाकर नदी

तीलाकरी

पैमाना जमिनाब की मोल ३२ ईन्च

दोमोहनीनोमाटांड
थाना बरहकठा
परगना: रामपुर

पैमाना जमिनाब की मोल ३२ ईन्च

नम्बर १०
३८८
१०८३
११६३

नामशे मशहूर
ठोला बापटीह टोली
यालो स्थान
धरौ स्थान
अवाटी स्थान

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	365492.7811	2692089.786	24°20' 10.288" N	85°40' 27.002" E
P2	365533.0313	2692053.5	24°20' 9.121" N	85°40' 28.442" E
P3	365483.8234	2692087.335	24°20' 10.205" N	85°40' 26.685" E
P4	365520.3187	2692031.118	24°20' 8.402" N	85°40' 29.383" E
P5	365520.1907	2692044.734	24°20' 8.832" N	85°40' 27.990" E
P6	365526.2994	2692035.868	24°20' 8.546" N	85°40' 28.210" E
P7	365570.3803	2692024.168	24°20' 8.179" N	85°40' 29.777" E
P8	365645.3877	2691977.168	24°20' 6.674" N	85°40' 32.454" E
P9	365703.7179	2691890.249	24°20' 3.867" N	85°40' 34.533" E
P10	365566.3451	2691979.035	24°20' 6.713" N	85°40' 29.649" E
P11	365661.1947	2691966.574	24°20' 6.335" N	85°40' 33.019" E
P12	365786.5046	2691845.469	24°20' 2.438" N	85°40' 37.576" E
P13	365756.4447	2691859.103	24°20' 2.871" N	85°40' 36.434" E
P14	365758.5829	2691850.339	24°20' 2.587" N	85°40' 36.513" E
P15	365791.5911	2691830.114	24°20' 1.247" N	85°40' 37.691" E
P16	365553.6111	2691806.15	24°19' 50.244" N	85°40' 38.954" E
P17	365586.1988	2691468.146	24°19' 50.110" N	85°40' 30.577" E
P18	365541.9235	2691484.461	24°19' 50.626" N	85°40' 28.950" E
P19	365576.254	2691463.717	24°19' 49.963" N	85°40' 30.175" E
P20	365449.8863	2691456.97	24°19' 49.704" N	85°40' 25.694" E
P21	365402.3429	2691421.584	24°19' 48.539" N	85°40' 24.020" E
P22	365576.254	2691463.717	24°19' 49.963" N	85°40' 30.175" E
P23	365277.1845	2691197.306	24°19' 41.210" N	85°40' 19.656" E
P24	365267.9469	2691163.57	24°19' 40.111" N	85°40' 19.339" E
P25	365304.3677	2690978.353	24°19' 34.101" N	85°40' 20.804" E
P26	365404.4852	2690934.508	24°19' 32.707" N	85°40' 24.261" E

Proposed Area in Ha of 06- 0.49
Proposed Area in Ha of 07- 0.76
Proposed Area in Ha of 08- 0.94
Proposed Area in Ha of 09- 2.86
Proposed Area in Ha of 10- 1.37
Proposed Area in Ha of 11- 1.45

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA In ACRE	LAND TYPE	REMARKS
JAINAGAR	JOGIATILA	141	1	1700	16.0947	RIVER	
JAINAGAR	JOGIATILA	141	1	753	5.5057	RIVER	
JAINAGAR	JOGIATILA	141	1	1468	3.5998	RIVER	
TOTAL AREA					25.2002		

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Superintendent of Survey

Superintendent of Survey.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472	1473	1474	1475	1476	1477	1478	1479	1480	1481	1482	1483	1484	1485	1486	1487	1488	1489	1490	1491	1492	1493	1494	1495	1496	1497	1498	1499	1500	1501	1502	1503	1504	1505	1506	1507	1508	1509	1510	1511	1512	1513	1514	1515	1516	1517	1518	1519	1520	1521	1522	1523	1524	1525	1526	1527	1528	1529	1530	1531	1532	1533	1534	1535	1536	1537	1538	1539	1540	1541	1542	1543	1544	1545	1546	1547	1548	1549	1550	1551	1552	1553	1554	1555	1556	1557	1558	1559	1560	1561	1562	1563	1564	1565	1566	1567	1568	1569	1570	1571	1572	1573	1574	1575	1576	1577	1578	1579	1580	1581	1582	1583	1584	1585	1586	1587	1588	1589	1590	1591	1592	1593	1594	1595	1596	1597	1598	1599	1600	1601	1602	1603	1604	1605	1606	1607	1608	1609	1610	1611	1612	1613	1614	1615	1616	1617	1618	1619	1620	1621	1622	1623	1624	1625	1626	1627	1628	1629	1630	1631	1632	1633	1634	1635	1636	1637	1638	1639	1640	1641	1642	1643	1644	1645	1646	1647	1648	1649	1650	1651	1652	1653	1654	1655	1656	1657	1658	1659	1660	1661	1662	1663	1664	1665	1666	1667	1668	1669	1670	1671	1672	1673	1674	1675	1676	1677	1678	1679	1680	1681	1682	1683	1684	1685	1686	1687	1688	1689	1690	1691	1692	1693	1694	1695	1696	1697	1698	1699	1700	1701	1702	1703	1704	1705	1706	1707	1708	1709	1710	1711	1712	1713	1714	1715	1716	1717	1718	1719	1720	1721	1722	1723	1724	1725	1726	1727	1728	1729	1730	1731	1732	1733	1734	1735	1736	1737	1738	1739	1740	1741	1742	1743	1744	1745	1746	1747	1748	1749	1750	1751	1752	1753	1754	1755	1756	1757	1758	1759	1760	1761	1762	1763	1764	1765	1766	1767	1768	1769	1770	1771	1772	1773	1774	1775	1776	1777	1778	1779	1780	1781	1782	1783	1784	1785	1786	1787	1788	1789	1790	1791	1792	1793	1794	1795	1796	1797	1798	1799	1800	1801	1802	1803	1804	1805	1806	1807	1808	1809	1810	1811	1812	1813	1814	1815	1816	1817	1818	1819	1820	1821	1822	1823	1824	1825	1826	1827	1828	1829	1830	1831	1832	1833	1834	1835	1836	1837	1838	1839	1840	1841	1842	1843	1844	1845	1846	1847	1848	1849	1850	1851	1852	1853	1854	1855	1856	1857	1858	1859	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	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☐ PILLAR POINT
☐ PROPOSED GHAT
☐ VILLAGE WISE AREA

मशहर नाम जौगीआटीना
 थाना नम्बर १४१
 + थाना जैनार
 परगना गुमो
 जिला हजारीबाग
 पैमाना विधान की भाँति १८ ईस्वी
 सन् १८९१-९२ ईस्वी

[illegible]

१	यदिनिश्चान ५ लेन द्वारिजसमभाज्यायम	११५
२	मकान मे सहन	१२०
३	पक्षा कुंघा	७
४	कक्षा कुंघा	०

पशुपतिपुर

गुलडीहा

बेहयाडीह

तेलाकरी

दोमोहनीनिमाटांड
थाना बरहकठा
परगना: रामपुर

नम्बर	नामश्री म्हादुर
१०	दोला बाग येथे दोली
३८८	याली स्थान
१०९७	धरती स्थान
११६३	अदादी खाम

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	36549.821	76911.089	24°20' 10.288" N	85°47' 27.002" E
P2	36553.013	76920.553	24°20' 13.111" N	85°47' 28.444" E
P3	36548.834	76910.333	24°20' 10.266" N	85°47' 26.685" E
P4	36559.817	76920.311	24°20' 8.403" N	85°47' 28.955" E
P5	36550.107	76920.074	24°20' 8.837" N	85°47' 27.997" E
P6	36556.294	76935.853	24°20' 5.545" N	85°47' 28.710" E
P7	36557.0.3803	76920.4168	24°20' 8.179" N	85°47' 29.777" E
P8	36546.487	76919.977	24°20' 6.674" N	85°47' 28.454" E
P9	36556.7129	76918.90.29	24°20' 8.667" N	85°47' 28.545" E
P10	36559.331	76919.9735	24°20' 6.711" N	85°47' 29.667" E
P11	36566.11947	76919.966.574	24°20' 6.335" N	85°47' 29.555" E
P12	365788.504	76945.469	24°20' 2.438" N	85°47' 29.576" E
P13	365796.4467	76945.103	24°20' 2.871" N	85°47' 26.343" E
P14	36580.749	76918.50.239	24°20' 2.587" N	85°47' 26.313" E
P15	36591.5912	76920.114	24°20' 5.145" N	85°47' 31.010" E
P16	36553.611	76918.8413	24°20' 5.145" N	85°47' 31.010" E
P17	36586.1988	76916.48.146	24°19' 50.110" N	85°47' 30.527" E
P18	365541.9235	76914.84.61	24°19' 50.616" N	85°47' 28.950" E
P19	36567.576	76914.653.717	24°19' 49.963" N	85°47' 30.175" E
P20	365449.8863	76914.56.97	24°19' 49.704" N	85°47' 25.694" E
P21	365402.4309	76914.521.84	24°19' 48.539" N	85°47' 24.022" E
P22	36567.576	76914.63.717	24°19' 49.963" N	85°47' 30.175" E
P23	365277.1845	76919.137.306	24°19' 44.210" N	85°47' 18.656" E
P24	365277.9469	76919.183.57	24°19' 44.210" N	85°47' 18.656" E
P25	365304.3677	76919.263.3	24°19' 34.101" N	85°47' 20.691" E
P26	365304.3677	76919.263.3	24°19' 32.710" N	85°47' 24.264" E

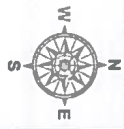
P26 365404.4852 2690934.508 24°19'32.707"N 85°40'24.261"E

Proposed Area in Ha of 06- 0.49
Proposed Area in Ha of 07- 0.76
Proposed Area in Ha of 08- 0.94
Proposed Area in Ha of 09- 2.86
Proposed Area in Ha of 10- 1.37
Proposed Area in Ha of 11- 1.45

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRE	LAND TYPE	REMARKS
JAINAGAR	JOGIATILA	141	1	1700	16.0947	RIVER	
JAINAGAR	JOGIATILA	141	1	753	5.5057	RIVER	
JAINAGAR	JOGIATILA	141	1	1468	3.5998	RIVER	
TOTAL AREA					25.2002		

☐ PILLAR POINT
☐ PROPOSED GHAT
☐ VILLAGE WISE AREA

Proposed Ghat of PO_KD_JN_AK ,08,09, Block -Jainagar,District - Koderma, JHARKHAND



Tilokri

मण्डल नाम टीलोक्री
थाना नम्बर १४४
थाना जैनगर

परगना: गुमे

जिला हजारीबाग

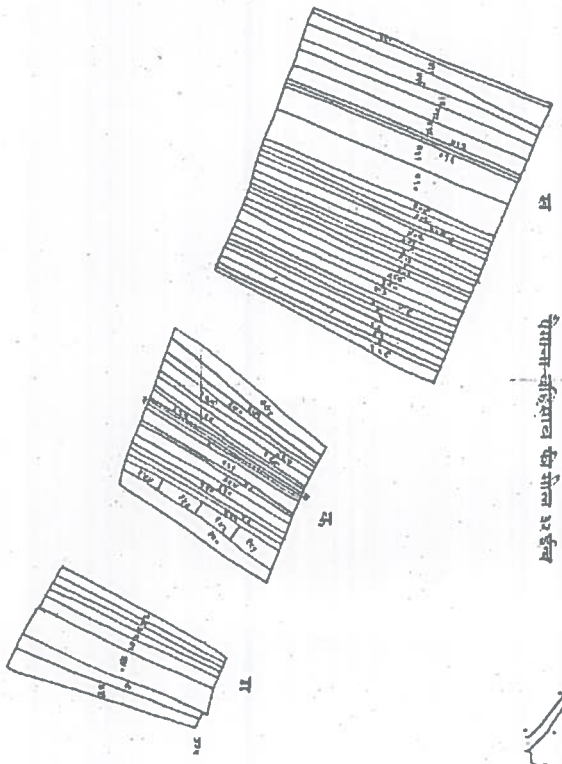
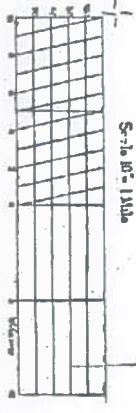
क्षेत्रफल: १६ ई.मी.
सन १९९१-९२ ई.सी.

१	वर्तमान में जैनगर जिला में शामिल	१
२	नगर निकाय	२
३	पंचायत	३
४	कक्षा क्षेत्र	४

Made and Published Under The Authority of Government.

नस्ब: १०५
३४८
४३५
नाम: जैनगर,
दस्तावेज: १०५,
कमिशन: ३४८,
देखी: ४३५

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	365765.9063	2691897.25	24°20' 4.114" N	85°40' 36.757" E
P2	365771.6311	2691908.296	24°20' 4.475" N	85°40' 36.956" E
P3	365788.5046	2691845.469	24°20' 2.438" N	85°40' 37.576" E
P4	365822.0104	2691794.233	24°20' 0.783" N	85°40' 38.782" E
P5	365791.5947	2691830.114	24°20' 1.940" N	85°40' 37.691" E
P6	365824.2683	2691770.612	24°20' 0.016" N	85°40' 38.870" E
P7	365709.875	2691555	24°19' 52.971" N	85°40' 34.885" E
P8	365746.4147	2691552.009	24°19' 52.885" N	85°40' 36.182" E

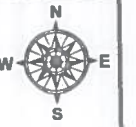


BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRE	LAND TYPE	REMARKS
JAINAGAR	TILOKRI	344	1	1502	3.8795	RIVER	
TOTAL AREA					3.8795		



Legend
Superintendent of Survey
PROPOSED GHAT
VILLAGE WISE AREA

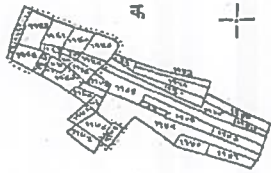
Proposed Ghat of PO_KD_JN_AK_06,07,08,09,10,11,, Block -Jainagar,District - Koderma, JHARKHAND



Jogiati

मशहर नाम जोगीयाटीला
थाना नम्बर १४१
थाना जैनगर
परगना गुमो
जिला हजारीबाग
पैमाना विमान की मोल १८ ईन्च
सन १८९९-१० ईस्वी

पैमाना विमान की मोल ३२ ईन्च



जमना खलामत

क्र	वर्णन	चिह्न
१	चट्टान स्थान की निशान	+
२	समान क्षेत्र	□
३	पट्टा क्षेत्र	□
४	कक्षा क्षेत्र	○

परतापपुर

पैमाना विमान की मोल ३२ ईन्च



पैमाना विमान की मोल ३२ ईन्च



गुवाडीहा

मनडीया

बेहरीडीहा

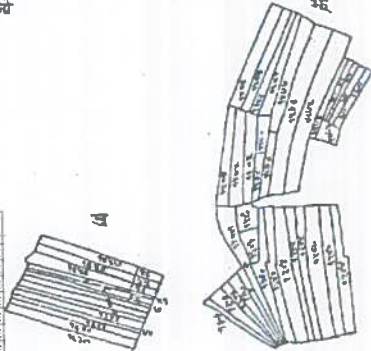


दोमोहनी निमाटांड
थाना बरहकटा
परगना रामपुर

नम्बर १०
३८८
१०८३
११६३

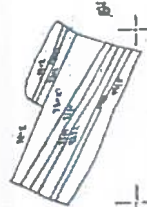
नामसे स्मारक
दोमोहनी निमाटांड
थाना बरहकटा
परगना रामपुर

पैमाना विमान की मोल ३२ ईन्च



तोलाकरी

पैमाना विमान की मोल ३२ ईन्च



बराक नदी

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	365492.7811	2692089.786	24°20' 10.288" N	85°40' 27.002" E
P2	365533.0313	2692053.5	24°20' 9.121" N	85°40' 28.442" E
P3	365483.8234	2692087.335	24°20' 10.205" N	85°40' 26.685" E
P4	365559.3187	2692031.118	24°20' 8.402" N	85°40' 29.383" E
P5	365520.1907	2692044.734	24°20' 8.832" N	85°40' 27.997" E
P6	365526.7994	2692035.868	24°20' 8.545" N	85°40' 28.310" E
P7	365570.3803	2692024.168	24°20' 8.779" N	85°40' 29.777" E
P8	365645.3877	2691977.168	24°20' 6.674" N	85°40' 34.553" E
P9	365703.7179	2691820.149	24°20' 3.867" N	85°40' 34.553" E
P10	365566.3451	2691979.035	24°20' 6.711" N	85°40' 29.649" E
P11	365568.5046	2691845.469	24°20' 2.438" N	85°40' 37.576" E
P12	365756.4447	2691859.103	24°20' 2.871" N	85°40' 36.434" E
P13	365758.5839	2691850.339	24°20' 2.587" N	85°40' 36.513" E
P14	365791.5913	2691830.114	24°20' 1.847" N	85°40' 37.092" E
P15	365553.6111	2691866.713	24°19' 50.604" N	85°40' 25.344" E
P16	365586.1988	2691468.146	24°19' 50.110" N	85°40' 30.527" E
P17	365541.9735	2691484.461	24°19' 50.676" N	85°40' 28.950" E
P18	365576.254	2691463.717	24°19' 49.963" N	85°40' 30.175" E
P19	365492.8863	2691456.97	24°19' 49.704" N	85°40' 25.694" E
P20	365402.3409	2691421.584	24°19' 48.539" N	85°40' 24.007" E
P21	365576.254	2691463.717	24°19' 49.963" N	85°40' 30.175" E
P22	365277.1845	2691197.306	24°19' 41.210" N	85°40' 19.656" E
P23	365267.9469	2691163.57	24°19' 40.111" N	85°40' 19.339" E
P24	365304.3677	2690978.353	24°19' 34.101" N	85°40' 20.694" E
P25	365404.4857	2690934.508	24°19' 32.707" N	85°40' 24.261" E

Proposed Area in Ha of 06- 0.49
Proposed Area in Ha of 07- 0.76
Proposed Area in Ha of 08- 0.94
Proposed Area in Ha of 09- 2.86
Proposed Area in Ha of 10- 1.37
Proposed Area in Ha of 11- 1.45

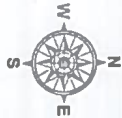
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRE	LAND TYPE	REMARKS
JAINAGAR	JOGIATILA	141	1	1700	16.0947	RIVER	
JAINAGAR	JOGIATILA	141	1	753	5.5057	RIVER	
JAINAGAR	JOGIATILA	141	1	1468	3.5998	RIVER	
TOTAL AREA					25.2002		

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

10-0	10-1	10-2	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-11	10-12	10-13	10-14	10-15	10-16	10-17	10-18	10-19	10-20	10-21	10-22	10-23	10-24	10-25	10-26	10-27	10-28	10-29	10-30	10-31	10-32	10-33	10-34	10-35	10-36	10-37	10-38	10-39	10-40	10-41	10-42	10-43	10-44	10-45	10-46	10-47	10-48	10-49	10-50	10-51	10-52	10-53	10-54	10-55	10-56	10-57	10-58	10-59	10-60	10-61	10-62	10-63	10-64	10-65	10-66	10-67	10-68	10-69	10-70	10-71	10-72	10-73	10-74	10-75	10-76	10-77	10-78	10-79	10-80	10-81	10-82	10-83	10-84	10-85	10-86	10-87	10-88	10-89	10-90	10-91	10-92	10-93	10-94	10-95	10-96	10-97	10-98	10-99	10-100
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Proposed Ghat of PO_KD_JN_AK,08,09, Block -Jainagar, District - Koderma, JHARKHAND



नमूना स्थानांसार

१	चरनिमान ५ जिनकी जिनका नामा	१
२	सकान मसुदा	२
३	पट्टा कुदा	३
४	कडा कुदा	४

Tilakri

मण्डर नाम तीलोकोरी

धाना नम्बर १४४

धाना जैनगर

परगना: गुमी

जिला हजोगिबाग

क्षेत्रफल: १६ ईसी

सन १९९९-९९ ईसी

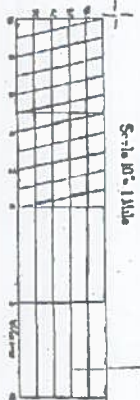
Made and Published Under The Authority of Government.

नमूना
१०५
१४४
४३५

नगरपालिका
टाका गङ्गा तट
कविरायान
देवीमन्दिर

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	365765.9063	1691897.25	24°20' 4.14" N	85°40' 36.75" E
P2	365771.6311	1691908.296	24°20' 4.47" N	85°40' 36.95" E
P3	365788.5046	1691845.469	24°20' 2.43" N	85°40' 37.57" E
P4	365822.0104	1691794.233	24°20' 0.78" N	85°40' 38.78" E
P5	365791.5917	1691830.114	24°20' 1.94" N	85°40' 37.69" E
P6	365824.2683	1691770.612	24°20' 0.01" N	85°40' 38.87" E
P7	365709.875	1691555	24°19' 52.97" N	85°40' 34.88" E
P8	365746.4147	1691552.009	24°19' 52.88" N	85°40' 35.18" E

Scale 1:10,000



सिरीयादीला

बहाडीक

दलदलीया

मिसपिय

सिरीयादीला

Superintendent of Survey

Legend

PROPOSED GHAT

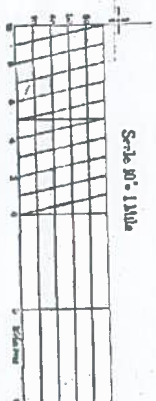
VILLAGE WISE AREA

Proposed Area in Ha of 08-0.94

Proposed Area in Ha of 09-2.86

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRE	LAND TYPE	REMARKS
JAINAGAR	TILAKRI	344	1	1502	3.8755	RIVER	
TOTAL AREA					3.8755		





Serial No. 12114

१	सूचीनशात ५ नैनशातसमभाआवावा	२०११
२	समानकैससुन	२०१०
३	पक्षाकंवा	२००९
४	कडा॥ सुवा	२००८

जमुना क्षालामृत

Made and Published Under The Authority of Government.

जिला हजारीबाग

—सम २०१२-१३ के लिये

दोभाङ्गो नीमाटाङ्ग

शाना बरहकठा

पुस्तकालयः

Tilakri

मधुहर्नाम टीलोकपी चाद. नम. २
याज्ञानम्बर २५४

शाना
सनागर

पदगानः गुणा

जिना हजोदीबाया

—सम २०१२-१३ के लिये

पुस्तकालयः

पुनः पुनः

6

जमुना क्षालामृत

For Superintendent of Survey.

Am. N. York

आज्ञातानां

$$\frac{910}{9100} = \frac{91}{910} = \frac{13}{130} = \frac{1}{10}$$

रविवोडिह

कुमागडोह

कृत

वेदोपाधि

Legend

◎ PILLAR POINT

PROPOSED GHAT

☐ VILLAGE WISE AREA

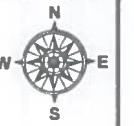
Proposed Area in Ha of 09-2.86
Proposed Area in Ha of 10-1.37
Proposed Area in Ha of 11-1.45

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRE	LAND TYPE	REMARKS
JAINANGAR	TILOKRI	144	2	1502	13.6039	RIVER	
TOTAL AREA					13.6039		

Approved

VILLAGE WISE AR

Proposed Ghat of PO_KD_JN_AK_06,07,08,09,10,11,, Block -Jainagar,District - Koderma, JHARKHAND



Jogiati

मशहर नाम जोगीचाटीला
थाना नम्बर १४१
थाना जैनगर
परगना गुमो
जिला हजारीबाग
थानानाथियार की मोल १९ ईन्च
सन् १८९९-१९ ईस्वी

थानानाथियार की मोल ३२ ईन्च

थानानाथियार की मोल ३२ ईन्च

नमूना खलामत

१	यह निशान की लिनहा/जसम/भाजाया	१-१
२	मकान के सहन	१-२
३	पक्का कुचा	७
४	कच्चा कुचा	०



थानानाथियार की मोल ३२ ईन्च

मन्दरीया

बेहगडीह

गुवडीहा

नम्बर १०
३८८
१०८७
११६३
नामश्री मशहर
थाना नायटोह टोली
वाली स्थान
धरणी स्थान
चबर्दी खाम

दोमोहनीनामाटांड
थाना बरहकठा
परगना रामपुर

थानानाथियार की मोल ३२ ईन्च

तोलिकरी

थानानाथियार की मोल ३२ ईन्च

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	365492.7811	2692089.786	24°20' 10.288" N	85°40' 27.002" E
P2	365533.0313	2692063.5	24°20' 9.321" N	85°40' 28.442" E
P3	365483.8234	2692087.335	24°20' 10.206" N	85°40' 26.685" E
P4	365559.3187	2692031.118	24°20' 8.402" N	85°40' 29.383" E
P5	365520.1907	2692044.734	24°20' 8.832" N	85°40' 27.950" E
P6	365526.2994	2692035.868	24°20' 8.546" N	85°40' 28.210" E
P7	365570.3803	2692024.168	24°20' 8.179" N	85°40' 29.777" E
P8	365643.3877	2691977.158	24°20' 6.674" N	85°40' 32.454" E
P9	365703.7179	2691890.249	24°20' 3.867" N	85°40' 34.553" E
P10	365566.3451	2691979.035	24°20' 6.711" N	85°40' 29.649" E
P11	365661.1947	2691966.574	24°20' 6.335" N	85°40' 33.019" E
P12	365788.5046	2691845.469	24°20' 2.438" N	85°40' 37.576" E
P13	365758.4447	2691859.103	24°20' 2.871" N	85°40' 36.434" E
P14	365758.5839	2691850.339	24°20' 2.587" N	85°40' 36.513" E
P15	365791.5912	2691830.116	24°20' 1.940" N	85°40' 37.691" E
P16	365553.6111	2691862.713	24°20' 5.611" N	85°40' 27.561" E
P17	365586.1988	2691468.146	24°19' 50.110" N	85°40' 30.577" E
P18	365541.9235	2691484.461	24°19' 50.626" N	85°40' 28.950" E
P19	365576.254	2691463.717	24°19' 49.963" N	85°40' 30.175" E
P20	365449.8863	2691456.97	24°19' 49.704" N	85°40' 25.694" E
P21	365402.3409	2691421.584	24°19' 48.539" N	85°40' 24.020" E
P22	365576.254	2691463.717	24°19' 49.963" N	85°40' 30.175" E
P23	365777.1845	2691197.306	24°19' 41.210" N	85°40' 19.656" E
P24	365767.9469	2691163.57	24°19' 40.111" N	85°40' 19.339" E
P25	365304.3677	2690978.353	24°19' 34.101" N	85°40' 20.694" E
P26	365404.4852	2690934.508	24°19' 32.707" N	85°40' 24.261" E

Authority of Government.

Superintendent of Survey.

Proposed Area in Ha of 06- 0.49
Proposed Area in Ha of 07- 0.76
Proposed Area in Ha of 08- 0.94
Proposed Area in Ha of 09- 2.86
Proposed Area in Ha of 10- 1.37
Proposed Area in Ha of 11- 1.45

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA In ACRE	LAND TYPE	REMARKS
JAINAGAR	JOGIATILA	141	1	1700	16.0947	RIVER	
JAINAGAR	JOGIATILA	141	1	753	5.5057	RIVER	
JAINAGAR	JOGIATILA	141	1	1468	3.5998	RIVER	
TOTAL AREA					25.2002		

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

मशहर नाम जोगीचाटीला
 धाना नम्बर १४१
 + धाना जैन्गर
 परगना गुमो
 जिला हजारीबाग
 पैमाना सहाय्य को मोड १९ ईस्
 मन् १९८९-९० ईस्वी

A hand-drawn map of the village of Khatkhola. The map shows a grid of plots, each labeled with a number and a name. The names are written in Devanagari script. A compass rose is drawn in the top right corner, with 'N' for North and 'S' for South. The map is oriented with North at the top.

१	यद्विज्ञानं च तैत्तिरीयसमभ्यासायमा	१००
२	महान्महान्	१००
३	पञ्चा कुंवा	५
४	कक्षा कुंवा	०

परलापपर

1	2
3	4

गुलडीहा

बेहयाडोह

तीला करी

दोमोहनीनीमाटांड
थाना बरहकठा
परगना: रामपुर

A hand-drawn diagram of a ship's hull cross-section, showing internal compartments and structural details. The diagram is oriented vertically, with the bow at the top and the stern at the bottom. The hull is divided into several longitudinal compartments by vertical bulkheads. The top compartment is labeled 'DECK' and contains a small structure labeled 'CANNON'. Below the deck is a large compartment labeled 'HOLD'. The hold is further divided into smaller sections, some of which are labeled 'CANNON' and 'MAGAZINE'. The bottom of the hull is labeled 'KEEL'. The diagram is drawn with simple lines and includes some handwritten notes and measurements.

नम्बर	नामशैलेश्वर
१०	दोला बाणेश्वर टोली
३८८	वालो स्थान
१०८७	धरती स्थान
११६३	अवादी स्थान

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	365492.7811	2090708.20	24°20' 10.288"N	85°47' 27.007"E
P2	365533.0131	2092053.5	24°20' 8.121"N	85°47' 28.447"E
P3	365483.824	2092087.335	24°20' 10.206"N	85°47' 26.685"E
P4	365559.8187	2091307.118	24°20' 8.402"N	85°47' 29.389"E
P5	365520.1007	2092074.734	24°20' 10.833"N	85°47' 27.997"E
P6	365576.2994	2091533.668	24°20' 8.546"N	85°47' 28.710"E
P7	365570.3803	2092024.168	24°20' 8.179"N	85°47' 29.777"E
P8	365485.3477	2091977.166	24°20' 6.674"N	85°47' 32.454"E
P9	365703.7179	2091890.249	24°20' 8.867"N	85°47' 34.539"E
P10	365566.3451	2091979.053	24°20' 6.718"N	85°47' 33.015"E
P11	365561.1941	2091666.574	24°20' 6.718"N	85°47' 33.015"E
P12	365575.5246	2091845.469	24°20' 8.387"N	85°47' 33.557"E
P13	365576.4447	2091855.460	24°20' 8.428"N	85°47' 33.576"E
P14	365575.5839	2091850.133	24°20' 8.428"N	85°47' 33.576"E
P15	365791.5914	2091830.114	24°20' 7.587"N	85°47' 36.613"E
P16	365553.6117	2091630.114	24°20' 6.467"N	85°47' 37.519"E
P17	365686.1568	2091628.146	24°19' 50.107"N	85°47' 30.527"E
P18	365641.9735	2091484.461	24°19' 50.626"N	85°47' 28.957"E
P19	365576.254	2091463.717	24°19' 49.963"N	85°47' 30.175"E
P20	365449.8383	2091456.97	24°19' 49.704"N	85°47' 25.694"E
P21	365402.4309	2091431.264	24°19' 48.329"N	85°47' 24.009"E
P22	365576.254	2091431.264	24°19' 48.329"N	85°47' 24.009"E
P23	365576.1845	2091379.066	24°19' 47.121"N	85°47' 19.856"E
P24	365507.9469	2091163.57	24°19' 40.111"N	85°47' 19.337"E
P25	365504.367	2090785.353	24°19' 34.101"N	85°47' 20.694"E
P26	365504.4833	209054.508	24°19' 32.707"N	85°47' 24.261"E

P26	365404.4852	2600034.508	24° 19' 32.707" N	85° 40' 24.261" E
-----	-------------	-------------	-------------------	-------------------

Proposed Area in Ha of 06- 0.49
Proposed Area in Ha of 07- 0.76
Proposed Area in Ha of 08- 0.94
Proposed Area in Ha of 09- 2.86
Proposed Area in Ha of 10- 1.37
Proposed Area in Ha of 11- 1.45

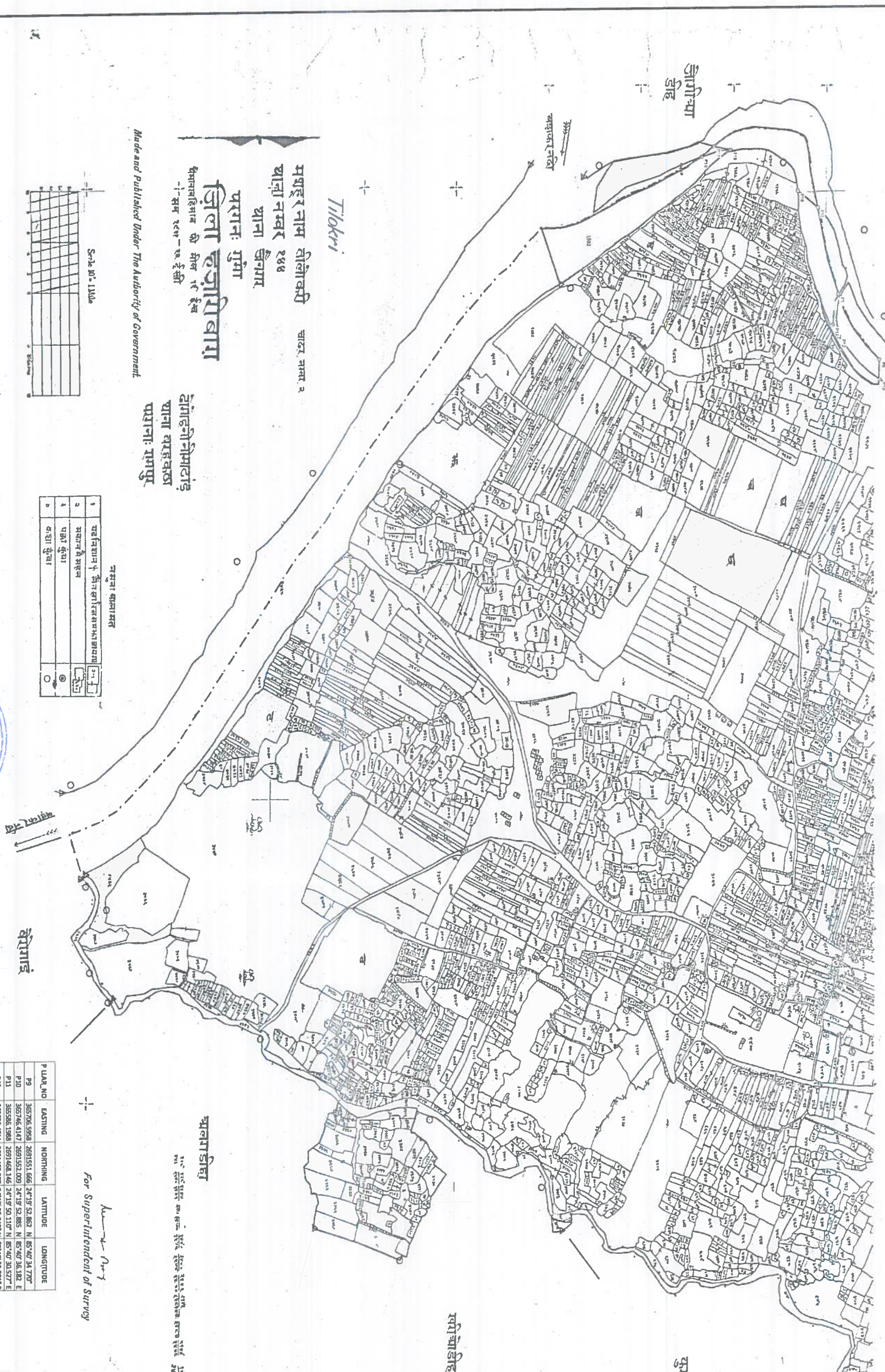
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA In ACRE	LAND TYPE	REMARKS
JAINAGAR	JOGIATILA	141	1	1700	16.0947	RIVER	
JAINAGAR	JOGIATILA	141	1	753	5.5057	RIVER	
JAINAGAR	JOGIATILA	141	1	1468	3.5998	RIVER	
TOTAL AREA					25.2002		

Legend

- ☐ PILLAR POINT
☐ PROPOSED GHAT
☐ VILLAGE WISE AREA

Proposed Chat of PO_KD_JN_AK 09,10,11, Block-Jainagar, District - Koderma, JHARKHAND

महानगर काट नगर



वाराणसी नदी

वाराणसी नदी

वाराणसी नदी

Tilokri

महानगर नाम वाराणसी नदी
खाना नम्बर २४४
खाना क्षेत्र
परान: गुंगा

जिला वाराणसी

क्षेत्रफल: १४.५५ हेक्टर
- १४.५५ हेक्टर

Made and Published Under The Authority of Government

वाराणसी नदी
खाना नम्बर २४४
खाना क्षेत्र
परान: गुंगा

Scale 1:1000



1	वाराणसी नदी	वाराणसी नदी
2	वाराणसी नदी	वाराणसी नदी
3	वाराणसी नदी	वाराणसी नदी
4	वाराणसी नदी	वाराणसी नदी
5	वाराणसी नदी	वाराणसी नदी

वाराणसी नदी

For Superintendent of Survey

वाराणसी नदी

वाराणसी नदी

Proposed Area in Ha of 09-2.86
Proposed Area in Ha of 10-1.37
Proposed Area in Ha of 11-1.45

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA in ACRES	LAND TYPE	REMARKS
JAINAGAR	TILOKRI	144	2	1502	13.6039	RIVER	
TOTAL AREA					13.6039		



P	U	A	R	N	O	E	A	S	T	I	N	G	L	A	T	I	T	D	E	E	E
P	U	A	R	N	O	E	A	S	T	I	N	G	L	A	T	I	T	D	E	E	E
P9	365706.5958	269155.166	24719	52.882	N	85.407	34.770														
P10	365706.4147	269155.1093	24719	52.885	N	85.407	34.770														
P11	365698.1988	269146.146	24719	50.110	N	85.407	34.770														
P12	365658.4711	269146.357	24719	50.042	N	85.407	34.770														
P13	365576.354	269146.717	24719	49.963	N	85.407	34.770														
P14	365658.0836	269142.584	24719	48.597	N	85.407	34.770														
P15	365690.5346	269137.512	24719	47.129	N	85.407	34.770														
P16	365771.1465	269137.306	24719	46.387	N	85.407	34.770														
P17	365785.0571	269133.601	24719	45.387	N	85.407	34.770														
P18	365785.0571	269133.601	24719	45.387	N	85.407	34.770														
P19	365785.0571	269133.601	24719	45.387	N	85.407	34.770														

Legend

PILLAR POINT

PROPOSED CHAT

VILLAGE WISE AREA

Plate E

(As per JSAC Cadastral Map of Keso River)

जिना कजाबा

५५५



संज्ञा

Superintendent of Survey

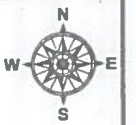
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA in ACRE	REMARK
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Legend

☐ PROPOSED GHAT
☐ VILLAGE WISE AREA



Proposed Ghat of PO_KD_JN_KS_01,02,03,04,05,, Block -Markacho,District - Koderma, JHARKHAND



नक्शा आनामत	
1	यदिनमान के लिये खारिज समझाया गया
2	मकान में स्थित
3	पक्का कुंआ
4	कच्चा कुंआ

पैमाना बहिःसाब फी मील ३२ प्य

नम्बर १८२
२८६

नाम शि मण्डूर
सुभादी खास
देवी मन्दा



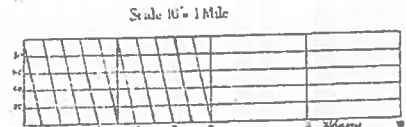
आवाटांड
आना जैनगर
परगन: गुमो

पातीसाले
आना जैनगर
परगन: गुमो

Bansdih
मण्डूर नाम बांसडोह
आना नम्बर १८८
+ आना कोडरमा
परगन: मरकचो
जिला हजारीबाग
पैमाना बहिःसाब फी मील १९ ईन्च
मद १८८१-१२ ईस्वी

चदरा
आना जैनगर
परगन: गुमो

बदलीआ
आना जैनगर
परगन: गुमो



Made and Published Under The Authority of Government.

Proposed Area in Ha of 01 - 0.89
Proposed Area in Ha of 02 - 1.56
Proposed Area in Ha of 03 - 2.15
Proposed Area in Ha of 04 - 2.36
Proposed Area in Ha of 05 - 3.18

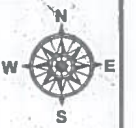
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA in ACRE	REMARKS
MARKACHO	BANSDIH	189	1	911	20.8676	
MARKACHO	BANSDIH	189	1	1129	4.7333	
MARKACHO	BANSDIH	189	1	1	7.3825	
MARKACHO	BANSDIH	189	1	1132	0.302	
MARKACHO	BANSDIH	189	1	2	8.1251	
TOTAL AREA					41.4105	

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	372813.8621	2696228.844	24° 22' 27.044" N	85° 44' 45.415" E
P2	372838.7102	2696224.774	24° 22' 26.919" N	85° 44' 46.299" E
P3	372761.496	2696181.405	24° 22' 25.486" N	85° 44' 43.572" E
P4	372803.7452	2696091.645	24° 22' 22.522" N	85° 44' 38.003" E
P5	372657.5817	2696074.156	24° 22' 21.970" N	85° 44' 39.919" E
P6	372543.2733	2696074.844	24° 22' 21.958" N	85° 44' 35.862" E
P7	372462.2971	2696009.44	24° 22' 22.734" N	85° 44' 32.980" E
P8	372377.6961	2696002.355	24° 22' 19.538" N	85° 44' 28.235" E
P9	372260.9655	2696019.569	24° 22' 20.078" N	85° 44' 25.861" E
P10	372136.0829	2695774.035	24° 22' 12.060" N	85° 44' 21.508" E
P11	372149.8532	2695731.185	24° 22' 10.671" N	85° 44' 22.011" E
P12	372511.467	2694882.578	24° 21' 43.192" N	85° 44' 35.116" E
P13	372527.4858	2694904.297	24° 21' 43.903" N	85° 44' 35.678" E
P14	372669.4271	2694728.143	24° 21' 38.218" N	85° 44' 40.771" E
P15	372824.9688	2694634.25	24° 21' 35.212" N	85° 44' 46.321" E
P16	372719.1544	2694746.442	24° 21' 38.828" N	85° 44' 42.530" E
P17	373267.328	2694491.415	24° 21' 30.698" N	85° 45' 2.063" E
P18	373276.9538	2694522.226	24° 21' 31.703" N	85° 45' 2.395" E

Rajan
Superintendent of Survey.

Legend
 ○ PILLAR POINT
 [] PROPOSED GHAT
 [] VILLAGE WISE AREA

Proposed Ghat of PO_KD_JN_KS_01,02,03, Block -Markacho,District - Koderma, JHARKHAND



Nimadih

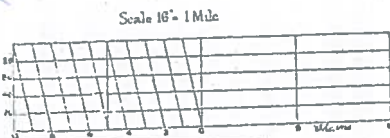
मशहूर नाम नोमाडोह
थाना नम्बर १९०
थाना कोडरमा
परगन: खराडोहा
जिला हजारीबाग
पैमाना/हिसाब की मील १९ ईस्वी
सन १८९९-१९ ईस्वी

नाम
१६६
७३०
१०१२
नाम थो मथपूर
अबादी खस
खरापुका टोली
देवीस्थान

नमूना चिह्नानुसार	
१	चरनिशान के निम्न खारिज समझाया गया
२	सफा नये सड़न
३	पक्का कुवा
४	कच्चा कुवा



Made and Published Under The Authority of Government.



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	372209	2695944	24° 22' 17.607" N	85° 44' 24.041" E
P2	372187.9731	2695970.182	24° 22' 18.451" N	85° 44' 23.286" E
P3	372371.2187	2696117.854	24° 22' 23.306" N	85° 44' 29.742" E
P4	372462.2971	2696099.44	24° 22' 22.734" N	85° 44' 32.980" E
P5	372603.7452	2696091.645	24° 22' 22.522" N	85° 44' 38.003" E
P6	372761.496	2696181.405	24° 22' 25.486" N	85° 44' 43.572" E
P7	372626.0786	2696118.767	24° 22' 23.410" N	85° 44' 38.786" E
P8	372717.8182	2696159.729	24° 22' 24.769" N	85° 44' 42.029" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA In ACRE	REMARKS
MARKACHO	NIMADIH	190	1	1066	7.7495	
TOTAL AREA					7.7495	

Proposed Area in Ha of 01 - 0.89
Proposed Area in Ha of 02 - 1.56
Proposed Area in Ha of 03 - 2.15

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

For Superintendent of Survey

नमना आलामत		
१	पदनिष्ठान ५ लेन हाजिरसमभाजायमा	१-१
२	मकान मै सद्वन	१-२
३	पक्षा कुला	०
४	कक्षा कुला	०

नम्र	नामं मशहूर
१८२	न्यादी खास
२८६	देवी मन्दा

જોમાહોદ

घटीआ

अश्वटांड
धानाजैनगर
परगनः शुभो



पातीसाले
छाना जैनगर
परगनः गुमो

कोनरा

नमोस्तौ

Bánsdih

मधुहर नाम बांसडीह
थाना नम्बर १८८

† याना कोडरमा

परगनः सरकचो

जिला हजारीबाग

पैर्मानार्थात्मानं फो मील १५ इच्च

मनु १८४१-१२ ईस्वी

चदरा
छाना जैनगर
परगनः गुमो

बदुलीआ
थानाजैनगर
पशानः शुभो

Made and Published Under The Authority of Government

Scale 10' = 1 Mile

Proposed Area in Ha of 01 - 0.89
Proposed Area in Ha of 02 - 1.56
Proposed Area in Ha of 03 - 2.15
Proposed Area in Ha of 04 - 2.36
Proposed Area in Ha of 05 - 3.18

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA In ACRE	REMARKS
MARKACHO	BANSDIH	189	1	911	20.8676	
MARKACHO	BANSDIH	189	1	1129	4.7333	
MARKACHO	BANSDIH	189	1	1	7.3825	
MARKACHO	BANSDIH	189	1	1132	0.302	
MARKACHO	BANSDIH	189	1	2	8.1251	
TOTAL AREA					41.4105	

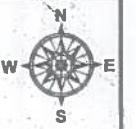
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	372813.8621	2696228.844	24° 22' 27.04" N	85° 44' 45.415" E
P2	373378.7192	2696224.774	24° 22' 26.915" N	85° 44' 46.299" E
P3	373771.496	2696181.405	24° 22' 25.486" N	85° 44' 43.577" E
P4	374303.7452	2696091.645	24° 22' 25.222" N	85° 44' 38.003" E
P5	374657.5817	2696074.156	24° 22' 21.970" N	85° 44' 39.919" E
P6	375243.2733	2696074.844	24° 22' 21.956" N	85° 44' 35.862" E
P7	374642.297	2696099.44	24° 22' 22.734" N	85° 44' 32.980" E
P4	373237.6961	2696002.355	24° 22' 19.538" N	85° 44' 28.135" E
P3	373260.9655	2696019.569	24° 22' 20.078" N	85° 44' 25.861" E
P5	372136.0829	2695774.035	24° 22' 12.060" N	85° 44' 21.501" E
P6	372149.8532	2695731.185	24° 22' 10.671" N	85° 44' 22.111" E
P7	372151.467	2695882.578	24° 22' 13.432" N	85° 44' 35.116" E
P8	372527.4858	2694904.297	24° 22' 13.903" N	85° 44' 35.678" E
P9	372669.4217	2694728.143	24° 21' 38.128" N	85° 44' 40.771" E
P10	372824.9688	2694634.25	24° 21' 35.212" N	85° 44' 46.321" E
P11	372978.1544	2694746.442	24° 21' 38.828" N	85° 44' 42.530" E
P12	372627.328	2694491.415	24° 21' 30.768" N	85° 45' 2.063" E
P13	372638.9538	2694522.226	24° 21' 31.309" N	85° 45' 2.395" E

W. H. Brown
Superintendent of Survey.

Legend

- ☒ PILLAR POINT
☐ PROPOSED GHAT
☐ VILLAGE WISE AREA

Proposed Ghat of PO_KD_JN_KS_01,02,03, Block -Markacho,District - Koderma, JHARKHAND



Nimadih

मशहूर नाम नोमाडोह
थाना नम्बर १९०
थाना कोडरमा
परगन: खराडोहा
जिला हजारीबाग
पैमाना ब्रिटीश की मील १६ ईस्वी
सन १८९२-९३ ईस्वी

नाम
१६.६
७३०
१०९२

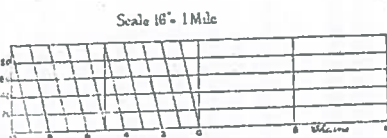
नाम से मशहूर
अबवादी खस
खरपुका टोली
देखी स्थान

नमूना अनामत

१	अनुमति प्राप्त की गयी है	११
२	अनुमति नहीं मिली	०
३	अनुमति नहीं मिली	०
४	अनुमति नहीं मिली	०



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PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	372209	2695944	24° 22' 17.607" N	85° 44' 24.041" E
P2	372187.9731	2695970.182	24° 22' 18.451" N	85° 44' 23.286" E
P3	372371.2187	2696117.854	24° 22' 23.306" N	85° 44' 29.742" E
P4	372462.2971	2696099.44	24° 22' 22.734" N	85° 44' 32.980" E
P5	372603.7452	2696091.645	24° 22' 22.522" N	85° 44' 38.003" E
P6	372761.496	2696181.405	24° 22' 25.486" N	85° 44' 43.572" E
P7	372626.0786	2696118.767	24° 22' 23.410" N	85° 44' 38.786" E
P8	372717.8182	2696159.729	24° 22' 24.769" N	85° 44' 42.029" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA In ACRE	REMARKS
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TOTAL AREA					7.7495	

Proposed Area in Ha of 01 - 0.89
Proposed Area in Ha of 02 - 1.56
Proposed Area in Ha of 03 - 2.15

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

नमूना अनामत		
१	परनिष्ठान ५ लेन हासिल समझावायामा	२५५
२	मकान नै सरुन	१५५
३	यक्षा कुवा	०
४	कक्षा कुवा	०

पैमाना बहिर्माण फर्मिल ३२ प्रिब

बोराजपुर

नाम	नाम श्री मशहूर
१८२	अबाली खास
२८६	देवी मन्दा

कोनरा

अखाटांड
धानाजेनगर
पद्मानः शुभो

पातीसाले
खाना जैनगार
परगनः रामो

Bánsdih

मथहूर नाम बांसडोह
थाना नम्बर १८८

+ थाना कोडरमा
परगनः सरकची

जिला हजारीबाग

सर्वभारतीय हिन्दू मील १६ ईस्वी
मार्च १९५१-५२ ईस्वी

चदरा
छाना जैनगर
परगनः रामो

बदुलीआ
थानाजैनगर
परगना: गुमो

Made and Published Under The Authority of Government

$$\begin{array}{r} 724 \\ 1989 \end{array} \quad \begin{array}{r} 834 \\ 9942 \end{array} \quad \begin{array}{r} 224 \\ 9943 \end{array} \quad \begin{array}{r} 234 \\ 9944 \end{array} \quad \begin{array}{r} 203 \\ 9945 \end{array} \quad \begin{array}{r} 945 \\ 9946 \end{array}$$

W. H. Rafter
Superintendent of Survey.

Proposed Area in Ha of 01 - 0.89
Proposed Area in Ha of 02 - 1.56
Proposed Area in Ha of 03 - 2.15
Proposed Area in Ha of 04 - 2.36
Proposed Area in Ha of 05 - 3.18

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA In ACRE	REMARKS
MARKACHO	BANSDIH	189	1	911	20.8676	
MARKACHO	BANSDIH	189	1	1129	4.7333	
MARKACHO	BANSDIH	189	1	1	7.3825	
MARKACHO	BANSDIH	189	1	1132	0.302	
MARKACHO	BANSDIH	189	1	2	8.1251	
TOTAL AREA					41.4105	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	372813.9621	2696228.844	24° 27' 04.04" N	85° 44' 45.15" E
P2	372838.7102	2696224.774	24° 27' 36.919" N	85° 44' 46.299" E
P3	377671.496	2696201.645	24° 25' 25.486" N	85° 44' 43.572" E
P4	377603.7452	2696201.645	24° 25' 23.527" N	85° 44' 38.003" E
P5	372657.5817	2696074.156	24° 22' 19.970" N	85° 44' 39.915" E
P6	372543.2733	2696074.156	24° 22' 19.958" N	85° 44' 38.962" E
P7	372462.2971	2696009.494	24° 22' 22.734" N	85° 44' 32.980" E
P8	372327.6961	2696002.355	24° 22' 19.538" N	85° 44' 28.735" E
P9	372360.9655	2696019.569	24° 22' 20.078" N	85° 44' 25.861" E
P10	372136.0679	2695774.035	24° 22' 12.060" N	85° 44' 21.508" E
P11	372149.8532	2695731.185	24° 22' 13.917" N	85° 44' 22.011" E
P12	372511.467	2694882.578	24° 21' 43.692" N	85° 44' 35.116" E
P13	372527.4858	2694904.297	24° 21' 43.903" N	85° 44' 35.678" E
P14	376669.427	2694728.143	24° 21' 38.218" N	85° 44' 40.771" E
P15	372824.9688	2694634.25	24° 25' 31.252" N	85° 44' 46.321" E
P16	372719.1544	2694674.442	24° 25' 38.828" N	85° 44' 42.530" E
P17	372367.328	2694491.415	24° 25' 30.698" N	85° 45' 2.063" E
P18	372726.9538	2694527.726	24° 25' 31.703" N	85° 45' 2.395" E

Legend

- ☒ PILLAR POINT
☐ PROPOSED GHAT
☐ VILLAGE WISE AREA

Proposed Ghat of PO_KD_JN_KS_01,02,03, Block -Markacho,District - Koderma, JHARKHAND



Nimadih

मशहूर नाम नोमाडीह
थाना नम्बर १९०
थाना कोडरमा
परगना: खराडीह
जिला हजारीबाग
पैमाना/हिसाब की मील १६ ईला
सम १८९९-१९०० ईस्वी

नाम
१६६
७३०
१०१२
नाम में यथसूर
अबादी खास
खरपुका टोली
देखी स्थान

नमूना आनामत

1	यह निशान पं. लेन खासि जस मभाजीयगा	3-1
2	मफान में सड़न	3-1
3	पछा कुचा	0
4	कछा कुचा	0

कटाही

टीकोपाड़ा

चोदीनाली

डहुआई

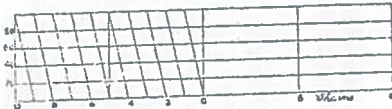
चुटीआ

बोराजपुर

बांसडीह

Made and Published Under The Authority of Government.

Scale 16" = 1 Mile



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	372209	2695944	24° 22' 17.607" N	85° 44' 24.041" E
P2	372187.973	2695970.182	24° 22' 18.451" N	85° 44' 23.286" E
P3	372371.2187	2696117.854	24° 22' 23.306" N	85° 44' 29.742" E
P4	372462.2971	2696099.44	24° 22' 22.734" N	85° 44' 32.980" E
P5	372603.7452	2696091.645	24° 22' 22.522" N	85° 44' 38.003" E
P6	372761.496	2696181.405	24° 22' 25.486" N	85° 44' 43.572" E
P7	372626.0786	2696118.767	24° 22' 23.410" N	85° 44' 38.786" E
P8	372717.8182	2696159.729	24° 22' 24.769" N	85° 44' 42.029" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA in ACRE	REMARKS
MARKACHO	NIMADIH	190	1	1066	7.7495	
TOTAL AREA					7.7495	

Proposed Area in Ha of 01 - 0.89
Proposed Area in Ha of 02 - 1.56
Proposed Area in Ha of 03 - 2.15

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

For Superintendent of Survey

Proposed Ghat of PO_KD_JN_KS_03, Block -Jainagar, District - Koderma, JHARKHAND



Arwat tanr

मशहूर नाम आखाटांड
थाना नम्बर १०२
थाना जैनागर
परगना: गुमो
जिला हजारीबाग
पैमाना: १ इंच = १० फीट
मन १८९९-१० ईस्वी

105030071680000

नमूना कालासत

1	यदि निशान + लेन सारिज समझाया	+
2	सकान में सदन	+
3	पक्ष कुवा	⊙
4	कसा कुवा	○

Made and Published Under The Authority of Government.



गुमोडीह

चुटीचा
थाना काइरमा
परगना: खगडीहा

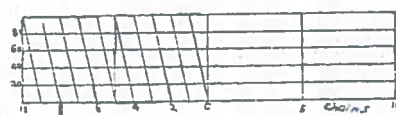
टुडमी

बांसडीह
थाना काइरमा
परगना: मरकती

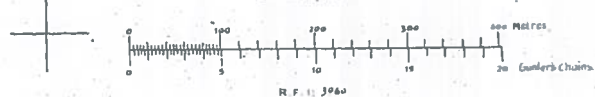
पानासाले

चदरा

Scale 16" = 1 Mile



Conversion Scale.



विहार सर्वेक्षण कार्यालय पटना - ७ में मुद्रित

For Superintendent of Survey.

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	372195.9375	2695920	24° 22' 16.823" N	85° 44' 23.585" E
P2	372136.0829	2695774.035	24° 22' 12.060" N	85° 44' 21.508" E
P3	372166.2133	2695933.842	24° 22' 17.264" N	85° 44' 22.526" E
P4	372133.9309	2695862.304	24° 22' 14.929" N	85° 44' 21.403" E

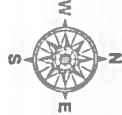
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA In ACRE	REMARKS
JAINAGAR	ARWATANR	102	1	86	8.0286	
TOTAL AREA					8.0286	

Legend

- ⊙ PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Area in Ha of 03 - 2.15

Proposed Ghat of PO_KD_JN_KS_03, Block-Markacho, District - Koderma, JHARKHAND



उमरुहो
धाना जैनगर
परान: गुमो

Ghulia

मशहूर नाम घुडीआ
धाना नम्बर १८६

धाना कोइरमा

परान: खराडीहा

जिला खजुरीबागा

समानावर्तित्व की सीमा १६ फीट (५ मीटर) = १६०० मीटर)
सम १८६६०-६९ ईस्वी

गुरगुडीहा
धाना जैनगर
परान: गुमो

सरकारी अधिकार द्वारा कुल खन अंकित

अरबाटांड
धाना जैनगर
परान: गुमो

नीमाडीहा

खराडीहा

बांसडीहा

खराडीहा
परान: गुमो



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	372209	2695944	24° 22' 17.607" N	85° 44' 24.041" E
P2	372195.9375	2695920	24° 22' 16.823" N	85° 44' 23.585" E
P3	372166.7133	2695933.842	24° 22' 17.264" N	85° 44' 22.526" E
P4	372187.9731	2695970.182	24° 22' 18.451" N	85° 44' 23.286" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRE	REMARKS
MARKACHO	GHULIA	191	1	128	0.7171	
TOTAL AREA					0.7171	

Proposed Area in Ha of 03 - 2.15



Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

नमूना आनामत		
1	घरनिघान फ लिन ह्या रिजलतमा भानायमा	1-1
2	सकान मै घरनि	1-1
3	पछा कुवा	0
4	अछा कुवा	0

पैमाना बहिस्ताब फेमिल ३२ रूब

बोराजपुर

नम्बर	नाम
१८२	महादेव साहू
२८६	देवी मन्दा

अवाटांड
धानाजैनग
पद्मानः शुभो

धातीसाले
धानाजैनगर
परगन: गुमो

नगोश्तो

Bānsdih

मथहूर नाम बांसडोह
स्थाना नम्बर १८८

+ थाना कोडरमा
परगनः सरकची

जिला हज़ारीबाग

पैर्मानायाः फलानां मोल १५ ईन्च

सं. १८५१-१२ ई.सं.

चदरा
थाना जैनगर
परगनः गुमो

बदुलोआ
थानाजैनगर
परगना: शुभो

Made and Published Under The Authority of Government.

Σελίδα 10^η = 1 Ημέρα

Proposed Price in Law of 100

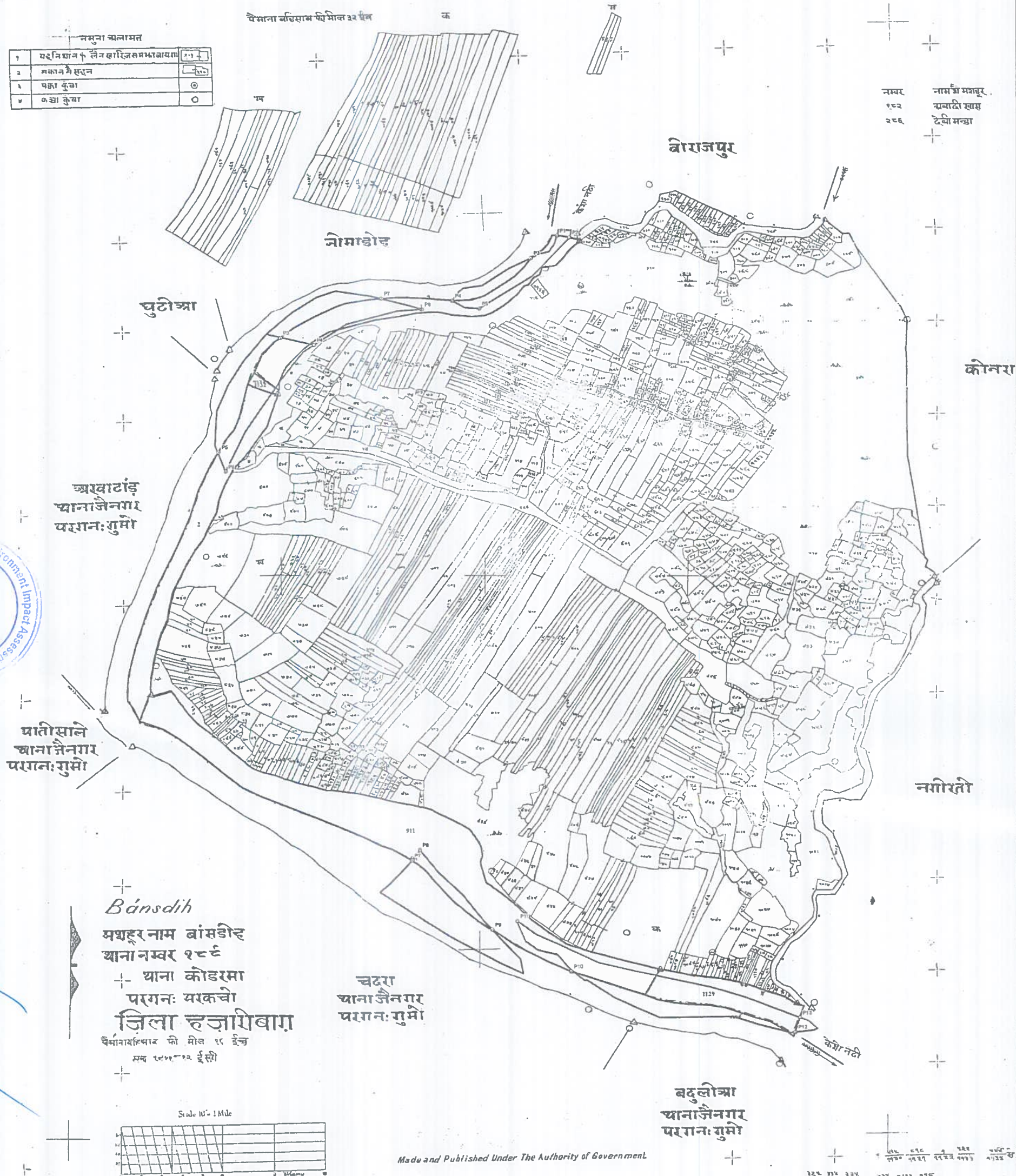
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA In ACRE	REMARKS
MARKACHO	BANSDIH	189	1	911	20.8676	
MARKACHO	BANSDIH	189	1	1129	4.7333	
MARKACHO	BANSDIH	189	1	1	7.3825	
MARKACHO	BANSDIH	189	1	1132	0.302	
MARKACHO	BANSDIH	189	1	2	8.1251	
TOTAL AREA					41.4105	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	372813.8621	2696278.844	24° 22' 27.04"N	85° 44' 45.15"E
P2	372838.7102	2696214.774	24° 22' 26.93"N	85° 44' 46.29"E
P3	371671.495	2696181.405	24° 22' 26.58"N	85° 44' 43.57"E
P4	371603.7452	2696091.645	24° 22' 25.52"N	85° 44' 38.00"E
P5	372657.5817	2696074.156	24° 22' 21.90"N	85° 44' 39.95"E
P6	372545.2733	2696074.156	24° 22' 21.95"N	85° 44' 35.86"E
P7	374463.2771	2696099.44	24° 22' 22.73"N	85° 44' 32.98"E
P8	373237.6797	2696002.355	24° 22' 15.54"N	85° 44' 28.35"E
P9	372460.9655	2696019.569	24° 22' 07.78"N	85° 44' 25.86"E
P5	37134.0629	2695774.035	24° 22' 12.06"N	85° 44' 21.50"E
P6	371438.8532	2695733.185	24° 22' 10.91"N	85° 44' 22.01"E
P7	372511.457	2694882.578	24° 22' 43.12"E	85° 44' 35.16"E
P8	372517.4858	2694904.297	24° 22' 43.30"E	85° 44' 35.67"E
P9	372669.4271	2694728.143	24° 21' 38.21"N	85° 44' 40.77"E
P10	372824.8698	2694634.25	24° 21' 35.12"N	85° 44' 46.32"E
P11	372719.1544	2694754.442	24° 21' 38.82"N	85° 44' 42.53"E
P12	372627.328	2694491.415	24° 21' 30.66"N	85° 45' 2.063"E
P13	372726.9538	2694522.226	24° 21' 31.70"N	85° 45' 2.395"E

☐ VILLAGE WISE AREA

नमूना आलामत	
१	घरनिघान फ लैन खादिज सप्रभावायाम
२	सकान मै सरुन
३	पक्षा कुवा
४	कक्षा कुवा

नम्बर	नाम
१८२	मशहूर
२८६	खानादी खान
	देवी मन्डा



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PILAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	372813.8621	2696228.844	24° 22' 27.04" N	85° 44' 45.415" E
P2	372838.7102	2696232.774	24° 22' 26.919" N	85° 44' 46.299" E
P3	372761.496	2696181.405	24° 22' 25.486" N	85° 44' 43.572" E
P4	372803.745	2696091.645	24° 22' 25.522" N	85° 44' 38.003" E
P5	372657.5817	2696074.156	24° 22' 21.970" N	85° 44' 39.919" E
P6	372543.2733	2696074.844	24° 22' 21.958" N	85° 44' 35.867" E
P7	372642.2971	2696099.44	24° 22' 22.734" N	85° 44' 32.987" E
P8	372327.6961	2696002.355	24° 22' 19.538" N	85° 44' 28.235" E
P9	372260.9655	2696019.569	24° 22' 20.078" N	85° 44' 25.861" E
P10	372136.0829	2695774.035	24° 22' 12.060" N	85° 44' 21.508" E
P11	372149.8532	2695851.185	24° 22' 10.671" N	85° 44' 22.011" E
P6	372511.467	2696882.578	24° 22' 43.192" N	85° 44' 35.116" E
P8	372527.4858	2694904.297	24° 22' 43.903" N	85° 44' 35.678" E
P9	372669.4217	2694728.143	24° 21' 38.121" N	85° 44' 40.771" E
P10	372874.9688	2694634.25	24° 21' 35.212" N	85° 44' 46.321" E
P11	372719.1544	2694674.442	24° 21' 38.828" N	85° 44' 42.530" E
P12	373067.328	2694491.415	24° 21' 31.698" N	85° 45' 20.063" E
P13	373276.9538	2694522.226	24° 21' 30.703" N	85° 45' 2.395" E

W. H. H. H.
Superintendent of Survey.

☐ PILLAR POINT
☐ PROPOSED GHAT
☐ VILLAGE WISE AREA

Proposed Area in Ha of 01 - 0.89
Proposed Area in Ha of 02 - 1.56
Proposed Area in Ha of 03 - 2.15
Proposed Area in Ha of 04 - 2.36
Proposed Area in Ha of 05 - 3.18

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA in ACRE	REMARKS
MARKACHO	BANSDIH	189	1	911	20.8676	
MARKACHO	BANSDIH	189	1	1129	4.7333	
MARKACHO	BANSDIH	189	1	1	7.3825	
MARKACHO	BANSDIH	189	1	1132	0.302	
MARKACHO	BANSDIH	189	1	2	8.1251	
TOTAL AREA					41.4105	

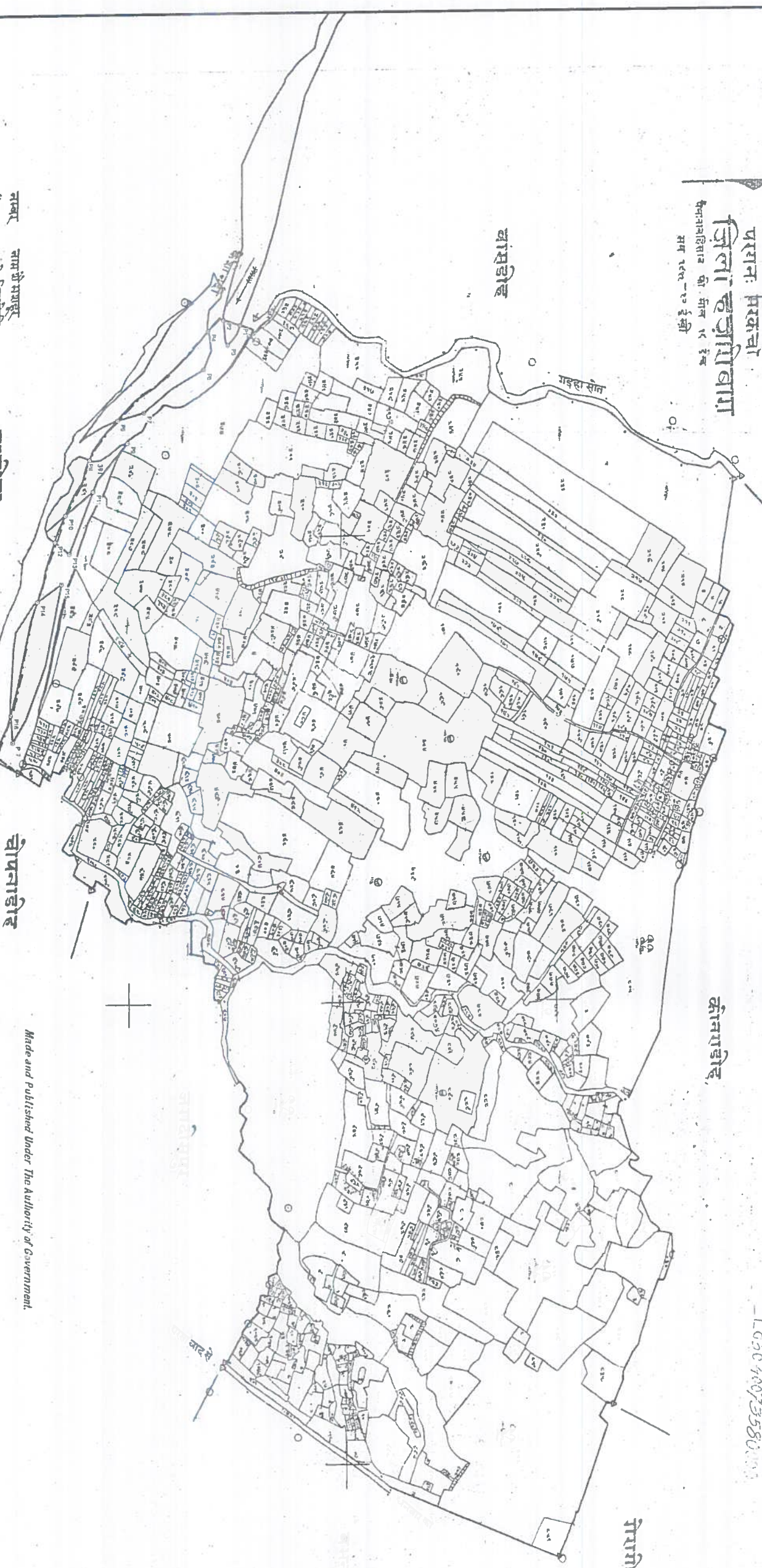
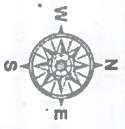


Proposed Ghat of PO_KD_JN_KS_05,06,07,08,09, Block -Markachio, District - Koderma, JHARKHAND

Nagirto
मथुरा नाम नगिरतो
खाना नाम १८८
खाना कीडाराग
परान: मरकाचो
जिला कजारीबाग
कनानाहिवा को मील १६ ई.स.
सम १९९९-९९ ई.सो

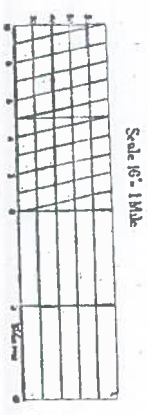
नगरा मथुरा
१. मथुरा नाम नगिरतो
२. खाना नाम १८८
३. खाना कीडाराग
४. परान: मरकाचो
५. जिला कजारीबाग
६. कनानाहिवा को मील १६ ई.स.
७. सम १९९९-९९ ई.सो

CG 50 4007358000



नाम
४०
५२
६६
९९०
४५९
८७४
नाम मे मथुरा
वांसीहि देले
इसाववा
देले मथुरा
कनानाहि
कनानाहि

वदलोखा
खाना जेनाम
पराना गुमो

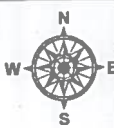


BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRES	REMARKS
MARKACHIO	NAGIRTO	108	1	391	11.8031	
TOTAL AREA					11.8031	

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	373076.9538	2694522.225	24° 21' 31.703" N	85° 45' 2.395" E
P2	373077.328	2694491.415	24° 21' 30.698" N	85° 45' 2.083" E
P3	373111.6095	2694482.77	24° 21' 30.950" N	85° 45' 2.147" E
P4	373186.3373	2694461.642	24° 21' 29.736" N	85° 45' 2.147" E
P5	373437.596	2694387.245	24° 21' 24.111" N	85° 45' 5.105" E
P6	373532.6974	2694452.263	24° 21' 29.451" N	85° 45' 7.709" E
P7	373425.0438	2694331.361	24° 21' 25.737" N	85° 45' 7.709" E
P8	373504.9799	2694234.074	24° 21' 22.402" N	85° 45' 10.578" E
P9	373476.503	2694305.147	24° 21' 24.738" N	85° 45' 9.559" E
P10	373500.0516	2694186.704	24° 21' 20.897" N	85° 45' 13.697" E
P11	373553.7316	2694139.611	24° 21' 22.605" N	85° 45' 12.521" E
P12	373546.1131	2694166.109	24° 21' 20.236" N	85° 45' 16.617" E
P13	373567.3501	2694192.96	24° 21' 21.113" N	85° 45' 16.617" E
P14	373749.5936	2694131.642	24° 21' 19.151" N	85° 45' 19.291" E
P15	373719.9284	2694177.757	24° 21' 20.634" N	85° 45' 18.224" E
P16	373945.8131	2694078.291	24° 21' 17.467" N	85° 45' 26.271" E
P17	373993.9559	2694081.389	24° 21' 17.542" N	85° 45' 27.978" E

Legend
PILLAR POINT
PROPOSED GHAT
VILLAGE WISE AREA

Proposed Ghat of PO_KD_JN_KS_05,06,07,08,,09,10,11,12,13,, Block -Jainagar, District - Koderma, JHARKHAND



Baduliá

मशहूर नाम बदुलीआ

थाना नम्बर १६३

थाना जैनगर

परगन: गुमो

जिला हजारीबाग

पैमाना हिसाब की मील १ इंच

सन १९९१-९२ ईस्वी

बांमडीह
थाना काइरमा
परगन: माकचा

नमूना खालामत	
१	यदिनिशान + लेन हजारीबाग
२	मकान मे नहन
३	पक्का कुवा
४	कच्चा कुवा

नम्बर	नाम प्रेमथर
६६	गावां वलती स्थान
२२४	अबादी खाम
२६	हामम बाड़ा
२६५	काला मन्दप

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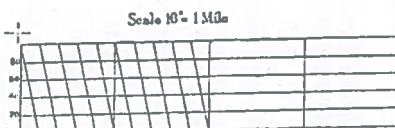
नगीपतो
थाना काइरमा
परगन: माकचा

चापनाडीह
थाना काइरमा
परगन: माकचा

बलाडीह
थाना काइरमा
परगन: माकचा

नवाडीह

केन्दुआटांड



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRE	REMARKS
JAINAGAR	BADULIA	163	1	1	4.7801	
JAINAGAR	BADULIA	163	1	286	10.4502	
JAINAGAR	BADULIA	163	1	925	8.7934	
JAINAGAR	BADULIA	163	1	916	7.3148	
TOTAL AREA					31.3385	

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	373640.3438	2692848.5	24° 30' 37.401" N	85° 45' 15.822" E
P2	373602.4375	2692856.6	24° 30' 37.653" N	85° 45' 14.475" E
P3	373679.6838	2693105.274	24° 30' 45.799" N	85° 45' 17.137" E
P4	373689.1522	2693056.397	24° 30' 44.173" N	85° 45' 17.488" E
P5	373741.0308	2693137.238	24° 30' 46.815" N	85° 45' 19.305" E
P6	373745.4474	2693231.995	24° 30' 49.878" N	85° 45' 19.430" E
P7	373880.8794	2693602.237	24° 31' 2.977" N	85° 45' 21.656" E
P8	373923.2081	2693592.280	24° 31' 1.662" N	85° 45' 25.633" E
P9	373951.7235	2693490.811	24° 31' 4.876" N	85° 45' 26.958" E
P10	374026.2994	2693727.735	24° 31' 6.095" N	85° 45' 29.238" E
P11	374017.1921	2693868.643	24° 31' 10.673" N	85° 45' 28.870" E
P12	374056.5209	2693834.735	24° 31' 8.582" N	85° 45' 30.776" E
P13	374012.3696	2693988.386	24° 31' 14.564" N	85° 45' 28.661" E
P14	373945.8131	2694078.291	24° 31' 17.467" N	85° 45' 26.773" E
P15	373749.5936	2694131.842	24° 31' 18.151" N	85° 45' 19.291" E
P17	373801.2763	2694200.297	24° 31' 17.815" N	85° 45' 21.138" E
P18	373646.1631	2694166.169	24° 31' 20.236" N	85° 45' 15.610" E
P19	373600.0516	2694186.704	24° 31' 20.890" N	85° 45' 13.967" E
P20	373627.7622	2694150.161	24° 31' 19.711" N	85° 45' 14.962" E
P21	373504.9799	2694234.024	24° 31' 22.402" N	85° 45' 10.578" E
P22	373497.8244	2694214.632	24° 31' 21.769" N	85° 45' 10.331" E
P23	373473.1401	2694215.538	24° 31' 21.791" N	85° 45' 9.455" E
P24	373437.596	2694287.245	24° 31' 24.111" N	85° 45' 8.127" E
P25	373286.3773	2694461.642	24° 31' 29.736" N	85° 45' 2.747" E
P26	373213.5406	2694490.086	24° 31' 30.699" N	85° 45' 0.155" E
P27	373186.0707	2694473.721	24° 31' 30.099" N	85° 44' 59.186" E
P28	372959.2889	2694550.211	24° 31' 32.520" N	85° 44' 51.114" E
P29	372970.8438	2694580	24° 31' 33.491" N	85° 44' 51.514" E
P30	373253.4375	2694492.25	24° 31' 30.722" N	85° 45' 1.570" E

- Proposed Area in Ha of 05 - 3.17
- Proposed Area in Ha of 06 - 1.91
- Proposed Area in Ha of 07 - 0.60
- Proposed Area in Ha of 08 - 0.33
- Proposed Area in Ha of 09 - 1.23
- Proposed Area in Ha of 10 - 0.29
- Proposed Area in Ha of 11 - 0.74
- Proposed Area in Ha of 12 - 3.74
- Proposed Area in Ha of 13 - 1.74

For Superintendent of Survey.

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Naginto

महानगर नाम नगिरांगी
ग्रामानांमर १८८८

ग्राम कोडरमा
परगना: पाकचो
जिला: कुशीनारायण
कमानडिवाड को. सीन १८ ई.क
साल १८८८-८९ ई.सो

कोनराडिह

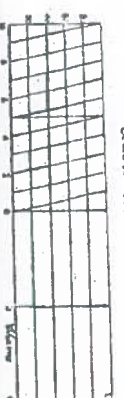
दासडिह

चोपनाडिह

बहुलीआ
ग्रामा जेनार
परगना: गुमो

Made and Published Under The Authority of Government.

नामर
४०
४२
४८
११०
४५१
८७४
नाम गै मयार
सोमो डीह दोरके
ग्रामावका
देवी मन्प
कवारिया
ग्रामावका



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRES	REMARKS
MARKACHO	NAGIRTO	188	1	391	11.0031	
TOTAL AREA					11.0031	

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	373276.9538	2694522.225	24° 21' 31.703" N	85° 45' 2.395" E
P2	373267.328	2694481.415	24° 21' 30.698" N	85° 45' 2.083" E
P3	373211.6095	2694498.77	24° 21' 30.998" N	85° 45' 3.632" E
P4	373288.3373	2694461.642	24° 21' 29.735" N	85° 45' 7.747" E
P5	373437.556	2694387.245	24° 21' 24.111" N	85° 45' 8.107" E
P6	373452.6974	2694452.243	24° 21' 29.451" N	85° 45' 5.105" E
P7	373452.6974	2694337.361	24° 21' 25.737" N	85° 45' 7.709" E
P8	373504.9799	2694334.074	24° 21' 22.402" N	85° 45' 10.578" E
P9	373476.903	2694306.187	24° 21' 24.738" N	85° 45' 9.599" E
P10	373600.0516	2694186.704	24° 21' 20.807" N	85° 45' 13.867" E
P11	373559.7815	2694129.811	24° 21' 22.605" N	85° 45' 12.521" E
P12	373646.1851	2694166.189	24° 21' 20.235" N	85° 45' 16.610" E
P13	373667.3502	2694192.56	24° 21' 21.113" N	85° 45' 18.357" E
P14	373748.9596	2694131.842	24° 21' 19.151" N	85° 45' 19.291" E
P15	373719.9794	2694177.757	24° 21' 20.634" N	85° 45' 18.248" E
P16	373945.8131	2694078.291	24° 21' 17.467" N	85° 45' 16.371" E
P17	373993.9659	2694081.389	24° 21' 17.582" N	85° 45' 17.278" E

Superintendent of Survey

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_KD_JN_KS_05,06,07,08,,09,10,11,12,13,, Block -Jainagar,District - Koderma, JHARKHAND



Baduliá

मशहूर नाम बदुलीआ

थाना नम्बर १६३

थाना जैनगर

परगन: गुमो

जिला हजारीबाग

पैमाना/हिसाब की मील १ इंच
सन १९९९-२० ई.सं.

बांसडीह
थाना काइरमा
परगन: माकचा

नमूना आलामत

१	यह निशान + लेन हजारीबाग भागायगा	+
२	मकान में नहन	+
३	पक्का कुंवा	⊙
४	कच्चा कुंवा	○

नम्बर	नाम प्रो मशहूर
६६	गांवा वलती स्थान
२२४	अबादी खास
२६	हामाम बाड़ा
२६५	काला मन्दप

Map is Published Under The Authority of Government.

नगीरतो
थाना काइरमा
परगन: माकचा

चोपनाडीह
थाना काइरमा
परगन: माकचा

बलाडीह
थाना काइरमा
परगन: माकचा

नवाडीह

केन्दुआटांड

चदरा

Scale 10" = 1 Mile



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRE	REMARKS
JAINAGAR	BADULIA	163	1	1	4.7801	
JAINAGAR	BADULIA	163	1	286	10.4502	
JAINAGAR	BADULIA	163	1	925	8.7934	
JAINAGAR	BADULIA	163	1	916	7.3148	
TOTAL AREA					31.3385	

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	373640.3438	2692848.5	24° 30' 37.401" N	85° 45' 15.822" E
P2	373602.4375	2692856.6	24° 30' 37.653" N	85° 45' 14.475" E
P3	373679.6838	2693105.774	24° 30' 45.759" N	85° 45' 17.137" E
P4	373689.1522	2693056.397	24° 30' 44.373" N	85° 45' 17.488" E
P5	373741.0308	2693137.238	24° 30' 46.816" N	85° 45' 19.303" E
P6	373745.4474	2693231.395	24° 30' 49.878" N	85° 45' 19.430" E
P7	373980.8794	2693432.237	24° 31' 2.977" N	85° 45' 22.650" E
P8	373923.2691	2693592.289	24° 31' 1.652" N	85° 45' 25.623" E
P9	373961.7225	2693690.811	24° 31' 4.876" N	85° 45' 26.958" E
P10	374026.2994	2693727.735	24° 31' 6.095" N	85° 45' 29.238" E
P11	374017.1921	2693868.643	24° 31' 10.673" N	85° 45' 28.870" E
P12	374056.5209	2693834.735	24° 31' 9.582" N	85° 45' 30.276" E
P13	374012.3696	2693988.386	24° 31' 14.564" N	85° 45' 28.661" E
P14	373945.8131	2694078.291	24° 31' 17.467" N	85° 45' 26.271" E
P15	373749.5936	2694131.842	24° 31' 18.151" N	85° 45' 19.281" E
P17	373801.2763	2694092.277	24° 31' 17.815" N	85° 45' 21.138" E
P18	373646.1631	2694146.169	24° 31' 30.236" N	85° 45' 15.630" E
P19	373600.0516	2694186.704	24° 31' 30.890" N	85° 45' 13.967" E
P20	373627.7632	2694150.161	24° 31' 19.711" N	85° 45' 14.962" E
P21	373504.9799	2694234.074	24° 31' 22.402" N	85° 45' 10.578" E
P22	373497.8244	2694214.652	24° 31' 21.769" N	85° 45' 10.331" E
P23	373473.1401	2694215.538	24° 31' 21.791" N	85° 45' 9.455" E
P24	373437.596	2694287.245	24° 31' 24.111" N	85° 45' 8.192" E
P25	373396.1379	2694461.642	24° 31' 29.726" N	85° 45' 5.747" E
P26	373213.5406	2694490.086	24° 31' 30.697" N	85° 45' 0.155" E
P27	373186.0707	2694473.721	24° 31' 30.089" N	85° 44' 58.186" E
P28	372959.2889	2694550.231	24° 31' 32.530" N	85° 44' 51.114" E
P29	372970.8438	2694580	24° 31' 33.491" N	85° 44' 51.514" E
P30	373253.4175	2694492.25	24° 31' 30.722" N	85° 45' 1.570" E

For Superintendent of Survey.

Legend

- ⊙ PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Area in Ha of 05 - 3.17
Proposed Area in Ha of 06 - 1.91
Proposed Area in Ha of 07 - 0.60
Proposed Area in Ha of 08 - 0.33
Proposed Area in Ha of 09 - 1.23
Proposed Area in Ha of 10 - 0.29
Proposed Area in Ha of 11 - 0.74
Proposed Area in Ha of 12 - 3.74
Proposed Area in Ha of 13 - 1.74

Nagirto

मध्य प्रदेश नाम नगिरतो

खाना नखर १८८

खाना कोडरमा

परगना परकचो

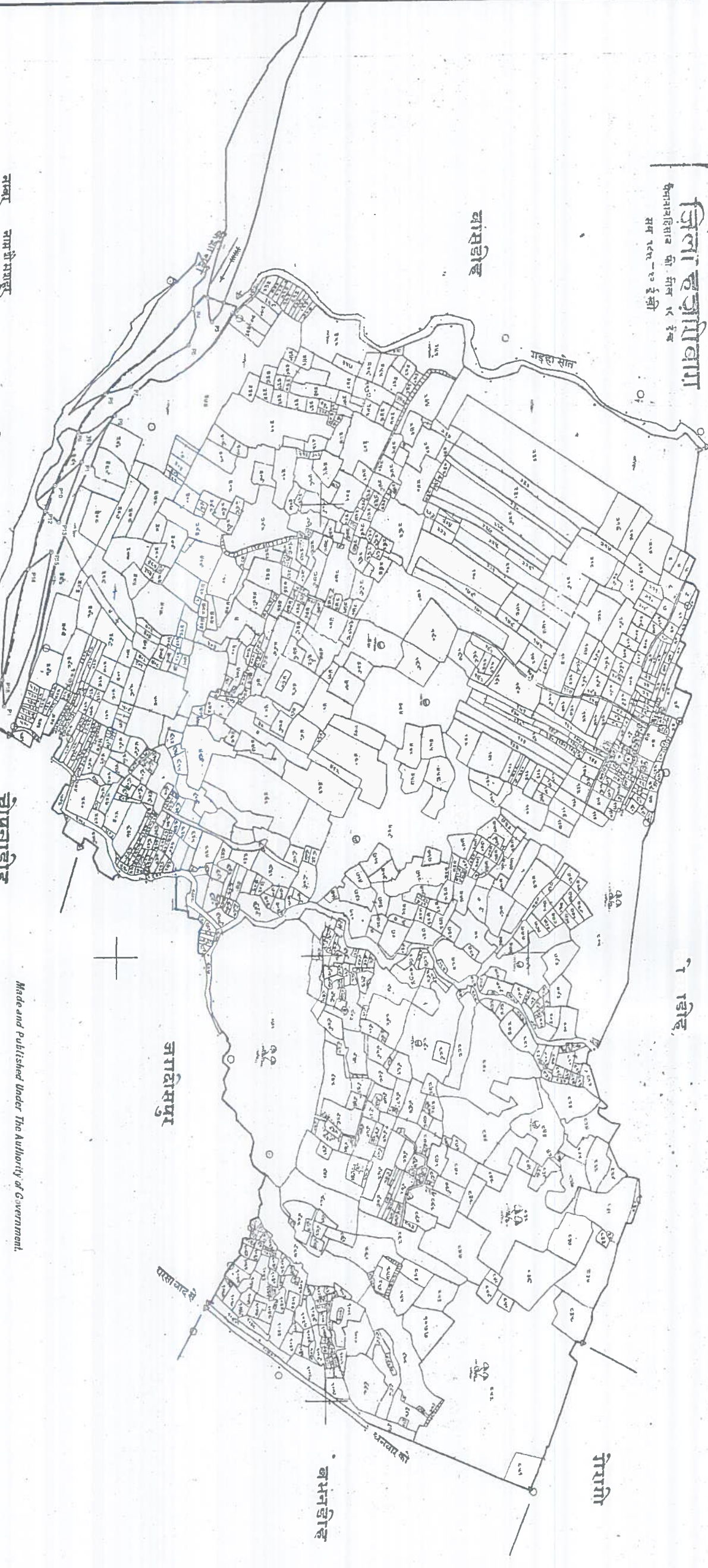
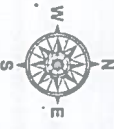
जिला कुशीमोटा

किमानादिवाह को मोल १८ ई.स

सम १८८८-१९ ई.स

१	महानिरीक्षण के निम्नलिखित विवरणों का प्रमाण	२	महानिरीक्षण के निम्नलिखित विवरणों का प्रमाण
३	महानिरीक्षण के निम्नलिखित विवरणों का प्रमाण	४	महानिरीक्षण के निम्नलिखित विवरणों का प्रमाण
५	महानिरीक्षण के निम्नलिखित विवरणों का प्रमाण	६	महानिरीक्षण के निम्नलिखित विवरणों का प्रमाण
७	महानिरीक्षण के निम्नलिखित विवरणों का प्रमाण	८	महानिरीक्षण के निम्नलिखित विवरणों का प्रमाण
९	महानिरीक्षण के निम्नलिखित विवरणों का प्रमाण	१०	महानिरीक्षण के निम्नलिखित विवरणों का प्रमाण

CG 50 4007 3580



वटुलीआ
खाना जेनार
परगना गुमो



Made and Published Under The Authority of Government.

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA In ACRE	REMARKS
MARKACHO	NAGIRTO	188	1	391	11.0031	
		TOTAL AREA		11.0031		

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	373276.9538	2694522.225	24° 21' 31.703" N	85° 45' 2.385" E
P2	373287.328	2694491.415	24° 21' 30.688" N	85° 45' 2.063" E
P3	373311.6095	2694498.17	24° 21' 30.950" N	85° 45' 3.637" E
P4	373286.3373	2694461.642	24° 21' 29.736" N	85° 45' 2.747" E
P5	373437.596	2694287.245	24° 21' 24.111" N	85° 45' 8.107" E
P6	373552.6974	2694452.263	24° 21' 25.451" N	85° 45' 5.105" E
P7	373425.0438	2694337.361	24° 21' 25.737" N	85° 45' 7.709" E
P8	373504.9799	2694334.074	24° 21' 22.402" N	85° 45' 10.578" E
P9	373476.803	2694306.187	24° 21' 24.728" N	85° 45' 9.559" E
P10	373500.0516	2694386.704	24° 21' 23.807" N	85° 45' 13.967" E
P11	373559.7016	2694239.811	24° 21' 22.605" N	85° 45' 12.517" E
P12	373646.1631	2694166.169	24° 21' 20.295" N	85° 45' 15.610" E
P13	373667.3502	2694192.96	24° 21' 21.113" N	85° 45' 16.357" E
P14	373749.5936	2694131.842	24° 21' 19.151" N	85° 45' 19.291" E
P15	373719.5204	2694177.757	24° 21' 20.694" N	85° 45' 18.247" E
P16	373945.8131	2694071.201	24° 21' 17.467" N	85° 45' 24.271" E
P17	373993.9659	2694081.589	24° 21' 17.582" N	85° 45' 27.978" E

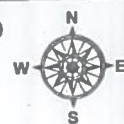
Superintendent of Survey

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Area in Ha of 05 - 3.18
Proposed Area in Ha of 06 - 1.91
Proposed Area in Ha of 07 - 0.60
Proposed Area in Ha of 08 - 0.33
Proposed Area in Ha of 09 - 1.24

Proposed Ghat of PO_KD_JN_KS_05,06,07,08,,09,10,11,12,13,, Block -Jainagar,District - Koderma, JHARKHAND



Baduliá

मशहूर नाम बदुलीआ

थाना नम्बर १६३

थाना जैनगर

परगना: गुमो

जिला चण्डिबाग

पैमाना/हिसाब की मील १ इंच
सम १८९९-१२ ईस्वी

बांमडीह
थाना काइरमा
परगना: माकचा

नमूना आलामत	
१	यदिनिशान + लेन हॉरिजलसम १:१०००
२	मकान में सहन
३	पक्का कुंवा
४	कच्चा कुंवा

नम्बर	नाम से मशहूर
६६	गांवा देवती स्थान
४६८	अबादी खाम
२३४	हमाम बाड़ा
२८५	काला मन्दप

Made and Published Under The Authority of Government.

नगीमती
थाना काइरमा
परगना: माकचा

चोपना डीह
थाना काइरमा
परगना: माकचा

बेलाडीह
थाना काइरमा
परगना: माकचा

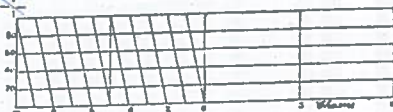
नवाडीह

केन्दुआटांड

चदरा



Scale 10" = 1 Mile



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRE	REMARKS
JAINAGAR	BADULIA	163	1	1	4.7801	
JAINAGAR	BADULIA	163	1	286	10.4502	
JAINAGAR	BADULIA	163	1	925	8.7934	
JAINAGAR	BADULIA	163	1	916	7.3148	
TOTAL AREA					31.3385	

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	373640.3438	2697848.5	24° 20' 37.401" N	85° 45' 15.822" E
P2	373602.4375	2697856.6	24° 20' 37.653" N	85° 45' 14.475" E
P3	373679.6838	2698106.724	24° 20' 45.759" N	85° 45' 17.137" E
P4	373669.1522	2698056.397	24° 20' 44.173" N	85° 45' 17.488" E
P5	373741.0308	2698137.238	24° 20' 46.816" N	85° 45' 19.307" E
P6	373745.4474	2698231.395	24° 20' 49.878" N	85° 45' 19.435" E
P7	373880.8794	2698332.237	24° 21' 2.977" N	85° 45' 27.656" E
P8	373923.2081	2698392.389	24° 21' 1.655" N	85° 45' 25.623" E
P9	373961.7235	2698460.811	24° 21' 4.876" N	85° 45' 26.958" E
P10	374056.2994	2698772.725	24° 21' 6.095" N	85° 45' 28.238" E
P11	374017.1921	2698868.641	24° 21' 10.673" N	85° 45' 28.870" E
P12	374056.5209	2698834.735	24° 21' 9.587" N	85° 45' 30.776" E
P13	374012.3696	2698988.386	24° 21' 14.564" N	85° 45' 28.661" E
P14	373945.8131	2699078.291	24° 21' 17.467" N	85° 45' 26.771" E
P15	373949.5936	2699131.842	24° 21' 19.151" N	85° 45' 19.291" E
P16	373801.7763	2699090.297	24° 21' 12.815" N	85° 45' 21.138" E
P17	373646.1631	2699166.169	24° 21' 30.236" N	85° 45' 15.610" E
P18	373600.0518	2699186.704	24° 21' 30.890" N	85° 45' 13.967" E
P19	373627.7622	2699150.163	24° 21' 19.711" N	85° 45' 14.962" E
P20	373504.9799	2699234.074	24° 21' 22.402" N	85° 45' 10.578" E
P21	373497.8244	2699214.652	24° 21' 21.769" N	85° 45' 10.331" E
P22	373473.1401	2699215.538	24° 21' 21.781" N	85° 45' 9.455" E
P23	373437.596	2699287.245	24° 21' 24.111" N	85° 45' 9.170" E
P24	373286.3373	2699461.642	24° 21' 29.736" N	85° 45' 0.155" E
P25	373213.5406	2699490.096	24° 21' 30.699" N	85° 44' 58.186" E
P26	373186.0707	2699473.721	24° 21' 30.099" N	85° 44' 51.114" E
P27	372969.2889	2699550.231	24° 21' 32.530" N	85° 44' 51.514" E
P28	372970.8438	2699580	24° 21' 33.491" N	85° 44' 51.514" E
P29	373253.4375	2699492.25	24° 21' 30.722" N	85° 45' 3.570" E

Proposed Area in Ha of 05 - 3.17
Proposed Area in Ha of 06 - 1.91
Proposed Area in Ha of 07 - 0.60
Proposed Area in Ha of 08 - 0.33
Proposed Area in Ha of 09 - 1.23
Proposed Area in Ha of 10 - 0.29
Proposed Area in Ha of 11 - 0.74
Proposed Area in Ha of 12 - 3.74
Proposed Area in Ha of 13 - 1.74

For Superintendent of Survey.

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_KD_JN_KS_05,06,07,08,09, Block -Markachio,District - Koderma, JHARKHAND

Naginto

मध्यम नाम नगरीय
ग्रामा नमर १८८

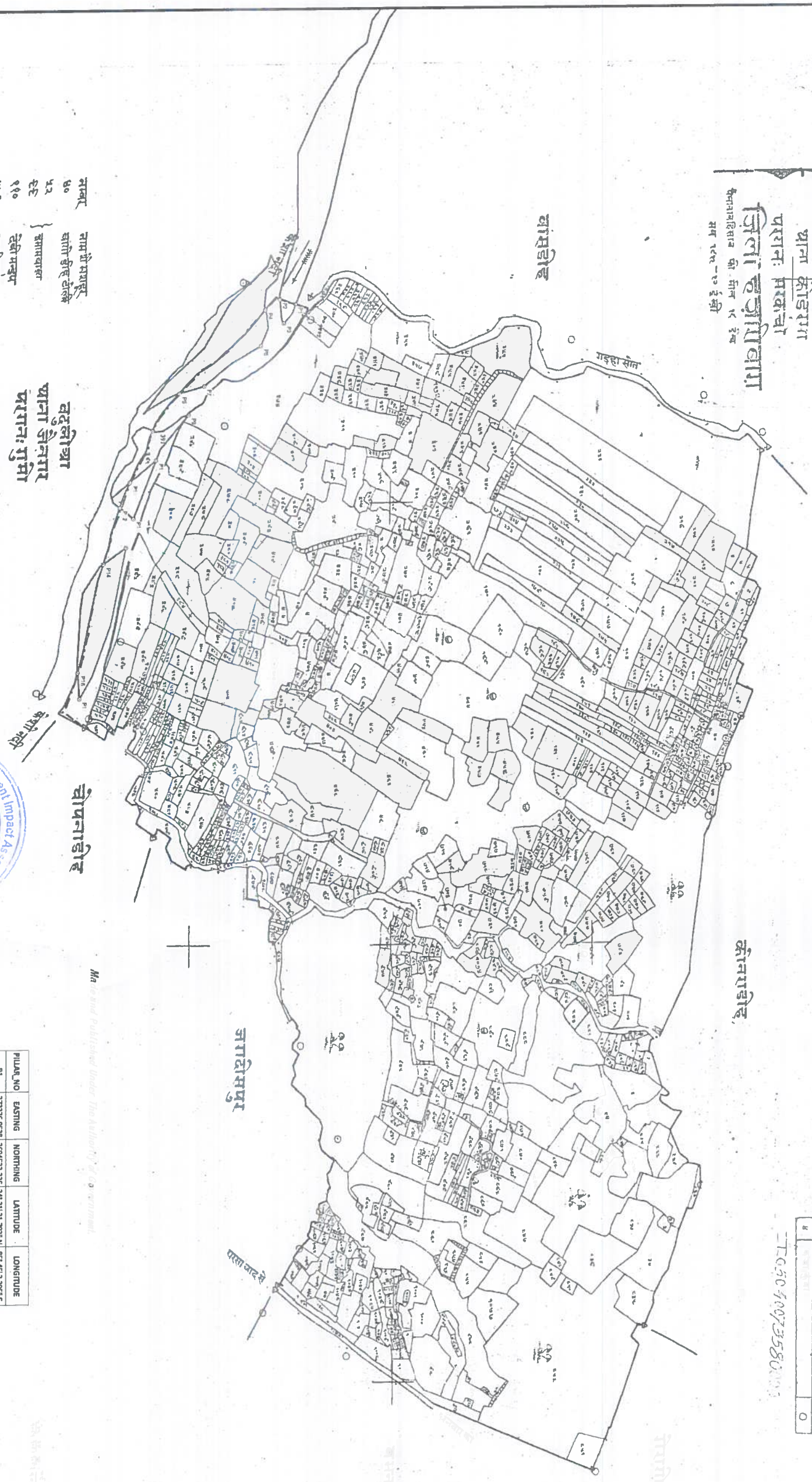
ग्रामा कीडगम
परान: मकचो

जिला चक्रावामा

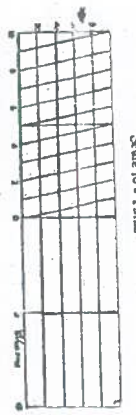
कनारासिद की मीन १८ ई.सी
मम १८८-१२ ई.सी

१	२	३	४	५
६	७	८	९	१०
११	१२	१३	१४	१५
१६	१७	१८	१९	२०

१८.५० १००७३५८००३



- नमर १८८
- ग्रामा नमर १८८
- ग्रामा कीडगम
- परान: मकचो
- जिला चक्रावामा
- कनारासिद की मीन १८ ई.सी
- मम १८८-१२ ई.सी



Signature of the authority.

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRE	REMARKS
MARKACHIO	MARKACHIO	188	1	391	11.0031	
TOTAL AREA					11.0031	

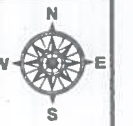
PILAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	373276.9538	2694522.226	24° 21' 31.703" N	85° 45' 2.395" E
P2	373267.328	2694491.415	24° 21' 30.698" N	85° 45' 2.063" E
P3	373311.6095	2694498.77	24° 21' 30.950" N	85° 45' 3.632" E
P4	373286.3373	2694461.642	24° 21' 29.795" N	85° 45' 2.747" E
P5	373437.596	2694287.245	24° 21' 24.111" N	85° 45' 8.107" E
P6	373352.6974	2694452.763	24° 21' 29.451" N	85° 45' 5.105" E
P7	373405.0498	2694337.581	24° 21' 25.737" N	85° 45' 7.705" E
P8	373504.9799	2694234.074	24° 21' 22.402" N	85° 45' 10.578" E
P9	373476.503	2694306.187	24° 21' 24.794" N	85° 45' 9.597" E
P10	373600.0516	2694186.704	24° 21' 20.897" N	85° 45' 12.521" E
P11	373559.7816	2694239.811	24° 21' 22.605" N	85° 45' 15.610" E
P12	373646.1631	2694165.189	24° 21' 20.235" N	85° 45' 16.353" E
P13	373667.3502	2694192.96	24° 21' 21.113" N	85° 45' 16.353" E
P14	373749.5936	2694131.642	24° 21' 19.151" N	85° 45' 19.291" E
P15	373719.9294	2694177.751	24° 21' 20.634" N	85° 45' 18.224" E
P16	373845.8131	2694078.291	24° 21' 17.467" N	85° 45' 16.271" E
P17	373993.9659	2694081.389	24° 21' 17.582" N	85° 45' 22.978" E

Legend

- PILAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

R

Proposed Ghat of PO_KD_JN_KS_05,06,07,08,,09,10,11,12,13,, Block -Jainagar,District - Koderma, JHARKHAND



Baduliá

मशहूर नाम बदुलीआ
थाना नम्बर १६३
थाना जैनगर
परगना: गुमे
जिला हजारीबाग
पैमाना/हिसाब की मील ईन्च
सम १८९१-१२ ईस्वी

बांसडीह
थाना काइरमा
परगना: माकचौ

नमूना थाना मत	
१	यदिनिशान + लेन खास गमगातायगा
२	मकान में नहरन
३	पक्का कुवा
४	कच्चा कुवा

नम्बर	नाम या मशहूर
१६३	गाँवा देवती स्थान
२३४	आबादी खास
२६५	सुभास बाड़ा
२६५	काली मन्दप

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नगीरतो
थाना काइरमा
परगना: माकचौ

चोपना डीह
थाना काइरमा
परगना: माकचौ

बेलाडीह
थाना काइरमा
परगना: माकचौ

नवाडीह

केन्दुआटांड

चदरा



Scale 10" = 1 Mile



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRE	REMARKS
JAINAGAR	BADULIA	163	1	1	4.7801	
JAINAGAR	BADULIA	163	1	286	10.4502	
JAINAGAR	BADULIA	163	1	825	8.7934	
JAINAGAR	BADULIA	163	1	916	7.3148	
TOTAL AREA					31.3385	

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	373640.3438	2602848.5	24° 20' 37.401" N	85° 45' 15.822" E
P2	373622.4375	2602856.6	24° 20' 37.653" N	85° 45' 14.475" E
P3	373678.6838	2603105.774	24° 20' 45.759" N	85° 45' 17.137" E
P4	373688.1522	2603056.397	24° 20' 44.173" N	85° 45' 17.488" E
P5	373741.0308	2603137.238	24° 20' 46.816" N	85° 45' 19.303" E
P6	373745.4474	2603231.395	24° 20' 49.878" N	85° 45' 19.407" E
P7	373980.8794	2603632.237	24° 21' 2.877" N	85° 45' 27.656" E
P8	373923.2081	2603582.289	24° 21' 1.662" N	85° 45' 25.623" E
P9	373961.7235	2603602.811	24° 21' 4.876" N	85° 45' 26.958" E
P10	374026.2994	2603777.735	24° 21' 6.095" N	85° 45' 29.238" E
P11	374017.1921	2603868.643	24° 21' 10.673" N	85° 45' 28.870" E
P12	374056.5209	2603834.735	24° 21' 9.583" N	85° 45' 30.276" E
P13	374012.3696	2603988.386	24° 21' 14.564" N	85° 45' 36.663" E
P14	373945.8131	2604078.291	24° 21' 12.467" N	85° 45' 36.774" E
P15	373748.5836	2604131.843	24° 21' 19.151" N	85° 45' 19.281" E
P17	373801.2763	2604030.297	24° 21' 17.815" N	85° 45' 21.138" E
P18	373646.1631	2604166.169	24° 21' 20.236" N	85° 45' 15.610" E
P19	373600.0516	2604186.704	24° 21' 20.890" N	85° 45' 13.967" E
P20	373627.7622	2604150.161	24° 21' 19.711" N	85° 45' 14.962" E
P21	373504.9799	2604234.074	24° 21' 22.402" N	85° 45' 10.578" E
P22	373497.8244	2604214.652	24° 21' 21.768" N	85° 45' 10.311" E
P23	373473.1401	2604215.538	24° 21' 21.791" N	85° 45' 8.485" E
P24	373432.596	2604287.345	24° 21' 24.111" N	85° 45' 8.170" E
P25	373286.3373	2604461.642	24° 21' 29.736" N	85° 45' 2.747" E
P26	373213.5406	2604490.086	24° 21' 30.639" N	85° 45' 0.155" E
P27	373186.0707	2604473.721	24° 21' 30.099" N	85° 44' 59.186" E
P28	372958.2889	2604550.231	24° 21' 32.520" N	85° 44' 51.114" E
P29	372970.8438	2604580	24° 21' 33.491" N	85° 44' 51.514" E
P30	372953.4375	2604492.25	24° 21' 30.722" N	85° 45' 1.570" E

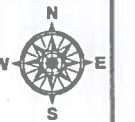
For Superintendent of Survey.

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Area in Ha of 05 - 3.17
Proposed Area in Ha of 06 - 1.91
Proposed Area in Ha of 07 - 0.60
Proposed Area in Ha of 08 - 0.33
Proposed Area in Ha of 09 - 1.23
Proposed Area in Ha of 10 - 0.29
Proposed Area in Ha of 11 - 0.74
Proposed Area in Ha of 12 - 3.74
Proposed Area in Ha of 13 - 1.74

Proposed Ghat of PO_KD_JN_KS_05,06,07,08,,09,10,11,12,13,, Block -Jainagar,District - Koderma, JHARKHAND



Baduliá

मशहूर नाम बदुलीआ
थाना नम्बर १६३
थाना जैनगर
परगना: गुमो
जिला हजारीबाग
विमानमहिाब की मील १२ ईस्वी
सन १८९१-१२ ईस्वी

बांसडीह
थाना काइरमा
परगना: मखचा

नमना थानामत		
१	यदनियान + लेनहा)रजसमभरजायगा	१-१
२	मकान मै मरुन	२-१
३	पक्षा कुचा	३-१
४	कक्षा कुचा	४-१

नम्बर	नाम थो मशहूर
१६३	गांवा वैवती स्थान
२३४	आबादी खास
२६३	बुभामबाड़ा
२६४	काली मन्दप

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नगीरतो
थाना काइरमा
परगना: मखचा

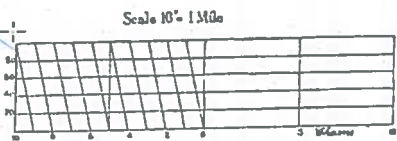
चोपनाडीह
थाना काइरमा
परगना: मखचा

वैलाडीह
थाना काइरमा
परगना: मखचा

नवाडीह

केन्दुआटांड

चदरा



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA in ACRE	REMARKS
JAINAGAR	BADULIA	163	1	1	4.7801	
JAINAGAR	BADULIA	163	1	286	10.4522	
JAINAGAR	BADULIA	163	1	925	8.7934	
JAINAGAR	BADULIA	163	1	916	7.3148	
TOTAL AREA					31.3385	

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	373640.3438	2692848.5	24° 20' 37.401" N	85° 45' 15.822" E
P2	373602.4375	2692856.6	24° 20' 37.653" N	85° 45' 34.475" E
P3	373679.6838	2693105.274	24° 20' 45.759" N	85° 45' 17.137" E
P4	373689.1522	2693056.397	24° 20' 44.173" N	85° 45' 17.488" E
P5	373741.0308	2693137.238	24° 20' 46.816" N	85° 45' 19.303" E
P6	373745.4474	2693231.395	24° 20' 49.878" N	85° 45' 19.430" E
P7	373790.8794	2693632.237	24° 21' 2.977" N	85° 45' 17.666" E
P8	373813.2081	2693592.289	24° 21' 1.662" N	85° 45' 35.632" E
P9	373861.7235	2693690.811	24° 21' 4.876" N	85° 45' 26.958" E
P10	374026.2994	2693777.735	24° 21' 6.095" N	85° 45' 29.238" E
P11	374017.1921	2693868.643	24° 21' 10.673" N	85° 45' 28.820" E
P12	374056.5209	2693834.735	24° 21' 9.582" N	85° 45' 30.276" E
P13	374012.3696	2692988.386	24° 21' 14.564" N	85° 45' 38.664" E
P14	373945.8131	2694078.291	24° 21' 17.467" N	85° 45' 36.271" E
P15	373748.5286	2694131.842	24° 21' 19.151" N	85° 45' 19.291" E
P17	373801.2783	2694090.297	24° 21' 17.815" N	85° 45' 21.138" E
P18	373646.1631	2694166.169	24° 21' 20.236" N	85° 45' 15.610" E
P19	373600.0516	2694186.704	24° 21' 20.890" N	85° 45' 13.967" E
P20	373627.7622	2694150.161	24° 21' 19.711" N	85° 45' 14.962" E
P21	373504.9799	2694234.074	24° 21' 22.402" N	85° 45' 10.578" E
P22	373471.8244	2694214.653	24° 21' 21.769" N	85° 45' 10.331" E
P23	373473.1401	2694215.538	24° 21' 21.791" N	85° 45' 8.453" E
P24	373427.596	2694287.245	24° 21' 24.111" N	85° 45' 8.120" E
P25	373236.3373	2694461.642	24° 21' 29.720" N	85° 45' 2.247" E
P26	373213.5406	2694490.086	24° 21' 30.639" N	85° 45' 0.155" E
P27	373186.0707	2694473.721	24° 21' 30.099" N	85° 44' 59.186" E
P28	372959.2889	2694550.291	24° 21' 33.580" N	85° 44' 51.114" E
P29	372970.8438	2694580	24° 21' 33.491" N	85° 44' 51.514" E
P30	372953.4375	2694492.28	24° 21' 30.728" N	85° 45' 1.570" E

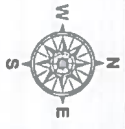
For Superintendent of Survey.

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Area in Ha of 05 - 3.17
Proposed Area in Ha of 06 - 1.91
Proposed Area in Ha of 07 - 0.60
Proposed Area in Ha of 08 - 0.33
Proposed Area in Ha of 09 - 1.23
Proposed Area in Ha of 10 - 0.29
Proposed Area in Ha of 11 - 0.74
Proposed Area in Ha of 12 - 3.74
Proposed Area in Ha of 13 - 1.74

Proposed Ghat of PO_KD_JN_KS_11,12, Block - Markacho, District - Koderma, JHARKHAND



नमूना स्थलान्त	
1	यह स्थान पर जल संचयन प्रणाली स्थापित की जायेगी
2	यह स्थान पर जल संचयन प्रणाली स्थापित की जायेगी
3	यह स्थान पर जल संचयन प्रणाली स्थापित की जायेगी
4	यह स्थान पर जल संचयन प्रणाली स्थापित की जायेगी

Chopradih
मथुरा नाम चौपनडिह
ग्राम नम्बर १७७
ग्राम कोडरमा
परगना प्रखण्ड
जिला कुशीनगर
भारत सरकार की मील १५ ई.स.
सन १९९९-२० ई.स.

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वदलीआ
ग्राम नम्बर
परगना: गुमो

नम्बर
७८८
७३७९
७३७९
७३७९
परगना: ४ मीर

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRE	REMARKS
MARKACHO	CHOPNADIH	317	1	289	9.7549	
TOTAL AREA					9.7549	

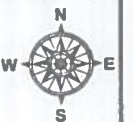
PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	374057.2334	2693797.141	24° 21' 8.367" N	85° 45' 36.647" E
P2	374015.2394	2693772.735	24° 21' 6.095" N	85° 45' 29.128" E
P3	374048.5799	2693745.44	24° 21' 6.677" N	85° 45' 30.023" E
P4	374055.9478	2693766.978	24° 21' 7.379" N	85° 45' 30.317" E
P5	373983.8734	2693652.237	24° 21' 2.977" N	85° 45' 27.656" E
P6	374013.7015	2693643.063	24° 21' 3.397" N	85° 45' 28.818" E
P7	374023.125	2693329.75	24° 20' 53.098" N	85° 45' 22.157" E
P8	373857.3125	2693310.5	24° 20' 52.482" N	85° 45' 23.374" E



Superintendent of Survey
Legend
PILLAR POINT

PROPOSED GHAT
VILLAGE WISE AREA

Proposed Ghat of PO_KD_JN_KS_12,13, Block -Markacho,District - Koderma, JHARKHAND



Beladih

मशहर नाम बेलाडोह
थाना नम्बर १७६
थाना कोडरमा
परगना: मरकचो
जिला छत्तागिबाग
पमानावहिसान की मील १६ ईल
सम १८११-१२ ईली

नमुना नाला मत			
१	महानिशातन + लेनखारिज समभडा जगाम	११	१
२	मकान मे सहज	१२	१
३	पक्षा कुवा	१३	१
४	कक्षा कुवा	१४	१

Made and Published Under The Authority of Government.

नम्बर नाम से मजदूर
१०२ चबदि हास
४५८ टेसी मन्दा
६३१ धरती धान

बदली या
थाना जैनगर
परगना: गुमो

चापनाडोह

नवडिह
थाना जैनगर
परगना: गुमो

पमाना बडिताय की मील २० ईल

जलाहेया

मतौनी
थाना जैनगर
परगना: गुमो

कुमहना

Scale 10" = 1 Mile



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	373823.125	2693329.75	24° 20' 53.098" N	85° 45' 22.155" E
P2	373857.3125	2693310.5	24° 20' 52.482" N	85° 45' 23.374" E
P3	373741.0308	2693137.238	24° 20' 46.816" N	85° 45' 19.303" E
P4	373747.5188	2692990.812	24° 20' 42.058" N	85° 45' 19.580" E
P5	373654.2472	2692895.61	24° 20' 38.937" N	85° 45' 16.301" E
P6	373640.3438	2692848.5	24° 20' 37.401" N	85° 45' 15.822" E
P7	373667.5683	2692834.153	24° 20' 36.943" N	85° 45' 16.793" E
P8	373645.0726	2692763.588	24° 20' 34.642" N	85° 45' 16.017" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA in ACRE	REMARKS
MARKACHO	BELADIH	176	1	1	8.0607	
MARKACHO	BELADIH	176	1	904	3.6006	
TOTAL AREA					11.6613	

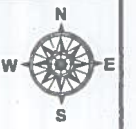
Proposed Area in Ha of 12 - 3.74
Proposed Area in Ha of 13 - 1.74

Superintendent of Survey

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_KD_JN_KS_05,06,07,08,,09,10,11,12,13,, Block -Jainagar,District - Koderma, JHARKHAND



Baduliá

मशहूर नाम बदुलीआ
थाना नम्बर १६३
थाना जैनगर
परगना: गुमो
जिला हजारीबाग
पैमाना/हिस्सा की मील १ ईन्च
सन १८९१-१२ ईस्वी

बांसडीह
थाना काड़ासा
परगना: माकचा

प्रमना आलामत	
१	यदिनिशान + लिनखोरजसमभरजायगा
२	मकान में नहरन
३	पक्षा कुचा
४	कचा कुचा

नम्बर	नाम हो मशहूर
१६३	गावा वैखती स्थान
२३४	आबादी खास
२६५	सुमान बाड़ा
२८५	काला मन्दप

Made and Published Under The Authority of Government.

चदरा

नगीरतो
थाना काड़ासा
परगना: माकचा

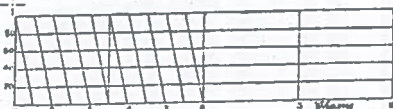
चोपना डीह
थाना काड़ासा
परगना: माकचा

केन्दुआटांड

बेलाडीह
थाना काड़ासा
परगना: माकचा

नवाडीह

Scale 10" = 1 Mile



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRE	REMARKS
JAINAGAR	BADULIA	163	1	1	4.7801	
JAINAGAR	BADULIA	163	1	286	10.4502	
JAINAGAR	BADULIA	163	1	925	8.7934	
JAINAGAR	BADULIA	163	1	916	7.3148	
TOTAL AREA					31.3385	

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	373640.3438	2692848.5	24° 20' 37.401" N	85° 45' 15.822" E
P2	373602.4375	2692856.6	24° 20' 37.653" N	85° 45' 14.475" E
P3	373679.6838	2693105.274	24° 20' 45.759" N	85° 45' 17.137" E
P4	373689.1522	2693056.397	24° 20' 44.173" N	85° 45' 17.489" E
P5	373741.0308	2693137.238	24° 20' 46.818" N	85° 45' 19.303" E
P6	373745.4474	2693231.395	24° 20' 49.878" N	85° 45' 19.420" E
P7	373801.8794	2693632.232	24° 21' 2.977" N	85° 45' 37.656" E
P8	373823.2081	2693592.289	24° 21' 1.662" N	85° 45' 35.623" E
P9	373961.7235	2693690.811	24° 21' 4.876" N	85° 45' 36.958" E
P10	374026.2994	2693727.735	24° 21' 6.005" N	85° 45' 39.238" E
P11	374017.1921	2693868.643	24° 21' 10.673" N	85° 45' 38.870" E
P12	374056.5209	2693834.735	24° 21' 9.580" N	85° 45' 38.276" E
P13	374012.3696	2693998.386	24° 21' 34.564" N	85° 45' 38.661" E
P14	373945.8131	2694078.291	24° 21' 17.467" N	85° 45' 36.271" E
P15	373748.5236	2694131.842	24° 21' 19.151" N	85° 45' 39.291" E
P17	373801.2763	2694090.297	24° 21' 17.815" N	85° 45' 31.138" E
P18	373646.1631	2694166.169	24° 21' 20.236" N	85° 45' 35.610" E
P19	373600.0516	2694186.704	24° 21' 20.807" N	85° 45' 33.967" E
P20	373627.7622	2694150.161	24° 21' 19.711" N	85° 45' 34.962" E
P21	373504.9799	2694234.074	24° 21' 22.402" N	85° 45' 30.787" E
P22	373497.8244	2694244.652	24° 21' 21.769" N	85° 45' 30.311" E
P23	373473.1401	2694215.538	24° 21' 21.291" N	85° 45' 8.455" E
P24	373437.596	2694287.245	24° 21' 24.111" N	85° 45' 8.170" E
P25	373286.3373	2694461.642	24° 21' 29.736" N	85° 45' 2.747" E
P26	373213.5406	2694490.086	24° 21' 30.639" N	85° 45' 0.155" E
P27	373186.0707	2694473.721	24° 21' 30.099" N	85° 44' 59.185" E
P28	372959.2889	2694550.231	24° 21' 32.507" N	85° 44' 51.114" E
P29	372970.8438	2694580	24° 21' 33.491" N	85° 44' 51.514" E
P30	372953.4375	2694492.25	24° 21' 30.722" N	85° 45' 1.520" E

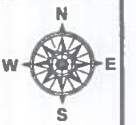
Proposed Area in Ha of 05 - 3.17
Proposed Area in Ha of 06 - 1.91
Proposed Area in Ha of 07 - 0.60
Proposed Area in Ha of 08 - 0.33
Proposed Area in Ha of 09 - 1.23
Proposed Area in Ha of 10 - 0.29
Proposed Area in Ha of 11 - 0.74
Proposed Area in Ha of 12 - 3.74
Proposed Area in Ha of 13 - 1.74

For Superintendent of Survey.

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_KD_JN_KS_12,13, Block -Markacho,District - Koderma, JHARKHAND



Beladih

मशहूर नाम बेलाडोह
थाना नम्बर १७६
थाना कोडरमा
परगना मरकचा
जिला हजारीबाग
थाना नम्बर १८ ईल
सम १८११-१२ ईली

नमुना कालामत		
१	यह विमान के तिन साहसिजस भाजयगा	१००
२	मकान के सहल	१००
३	पहा कुवा	१००
४	कडा कुवा	१००

Made and Published Under The Authority of Government.

नम्बर १००
४५८
६३१

नाम के मशहूर
चबालि साह
देवी मन्दा
परगना

बदलीया
थाना जैनगर
परगना गुमो

नवडोह
थाना जैनगर
परगना गुमो



मतौनी
थाना जैनगर
परगना गुमो

जलाहेया

कुसदना

Scale 10" = 1 Mile



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	373823.125	2693329.75	24° 20' 53.098" N	85° 45' 22.155" E
P2	373857.3125	2693310.5	24° 20' 52.482" N	85° 45' 23.374" E
P3	373741.0308	2693137.238	24° 20' 46.816" N	85° 45' 19.303" E
P4	373747.5188	2692990.812	24° 20' 42.058" N	85° 45' 19.580" E
P5	373654.2472	2692895.61	24° 20' 38.937" N	85° 45' 16.301" E
P6	373640.3438	2692848.5	24° 20' 37.401" N	85° 45' 15.822" E
P7	373667.5683	2692834.153	24° 20' 36.943" N	85° 45' 16.793" E
P8	373645.0726	2692763.588	24° 20' 34.642" N	85° 45' 16.017" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA In ACRE	REMARKS
MARKACHO	BELADIH	176	1	1	8.0607	
MARKACHO	BELADIH	176	1	904	3.6006	
TOTAL AREA					11.6613	

Proposed Area in Ha of 12 - 3.74
Proposed Area in Ha of 13 - 1.74

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Superintendent of Survey



Ambadih

मशहर नाम अम्बाडिह
थाना नम्बर १६७
थाना जैनगर

परगना: गुणो

जिला हजारीबाग

सिमावर्तित क्षेत्र की सीमा पर है
सन् १९९२ ईस्वी

Initiated and Published Under The Authority of Government.

नमूना स्थानांक	
१	सर्वेक्षण नं. जैनगारिहजारीबाग
२	सर्वेक्षण नं. जैनगारिहजारीबाग
३	पट्टा नं. जैनगारिहजारीबाग
४	क.स. नं. जैनगारिहजारीबाग

नन्दिह
परगना: मारको

मुसोवा

भलकडिह

नम्बर १२४
नाम से मशहूर
अम्बाडिह नाम
परगना: मारको

Scale 1:1000



कटिया

दसो मुट्टे
थाना कोडरमा
परगना: मारको

For Superintendent of Survey

सर्वेक्षण नं. १६७
पट्टा नं. १६७
क.स. नं. १६७

Legend

PILLAR POINT

PROPOSED GHAT

VILLAGE WISE AREA

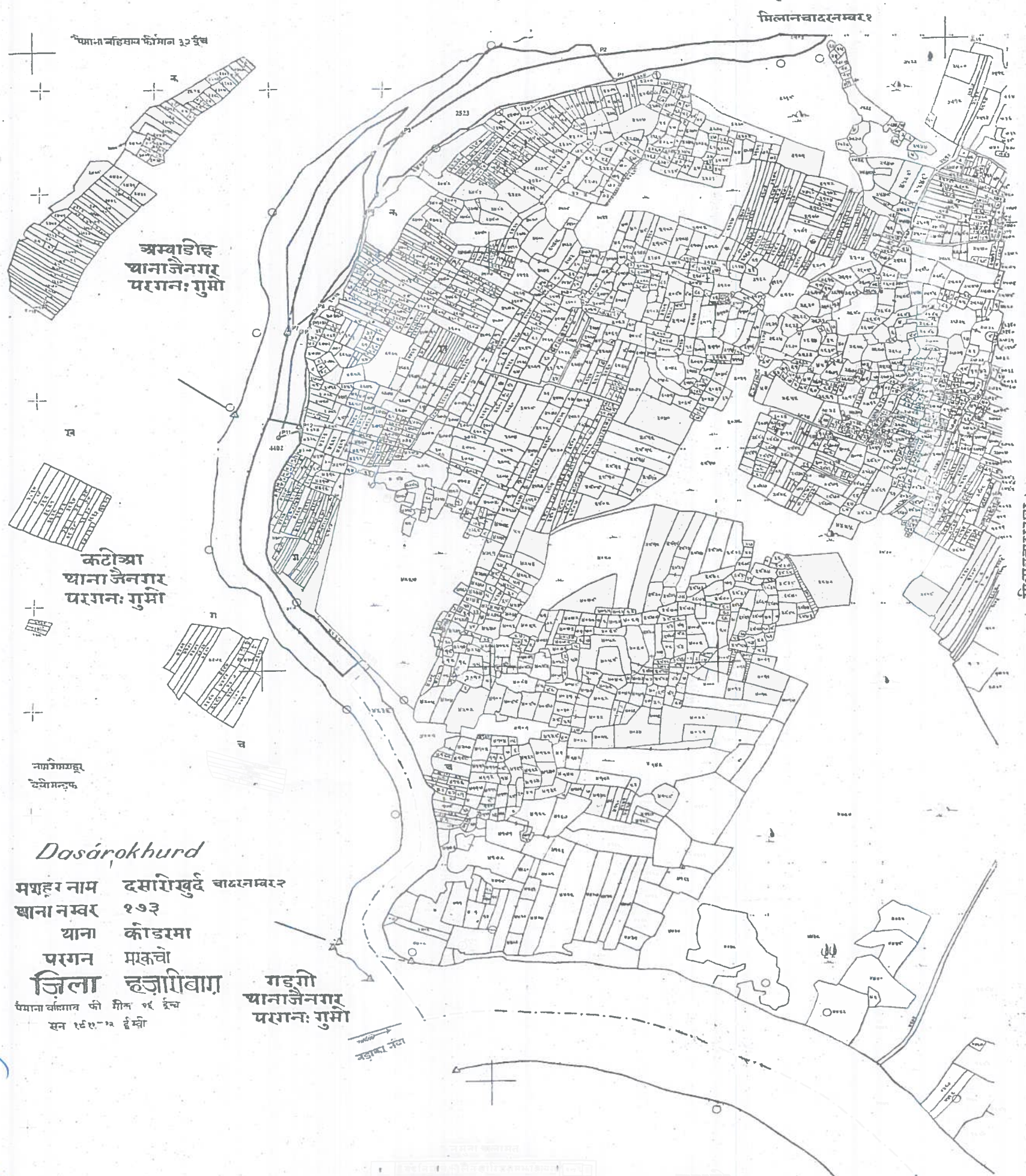
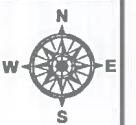
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRE	REMARKS
JAINAGAR	AMBADIH	167	1	826-1	20.0666	
TOTAL AREA					20.0666	

Proposed Area in Ha of 17 - 3.70
Proposed Area in Ha of 18 - 3.21

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	374810.9688	2690310.25	24° 19' 15.229" N	85° 45' 58.157" E
P2	374800.4832	2690323.393	24° 19' 15.848" N	85° 45' 57.779" E
P3	374858.1875	2690161.5	24° 19' 10.297" N	85° 45' 45.689" E
P4	374812.2662	2690328.598	24° 19' 15.508" N	85° 45' 51.104" E
P5	374831.1481	2690328.492	24° 19' 15.770" N	85° 45' 51.772" E
P6	374870.606	2690314.828	24° 19' 12.029" N	85° 45' 46.117" E
P7	374853.7267	2690778.197	24° 18' 57.772" N	85° 45' 38.557" E
P8	374853.1855	2690945.717	24° 19' 5.218" N	85° 45' 38.449" E
P9	374841.5894	2690118.303	24° 19' 8.854" N	85° 45' 41.602" E



Proposed Ghat of PO_KD_JN_KS_17,18,19, Block -Markacho, District - Koderma, JHARKHAND



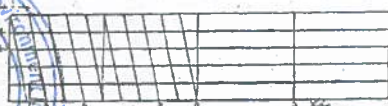
नाम
2523

Dasarokhurd

मशहर नाम दसाखुर्द चादरनम्बर १७३
थाना कोडरमा
परगना माकचो
जिला हजारीबाग
धराना वसिगाव की सीमा १६ ईन्च
सन १८९२ ईस्वी

गडगो
थाना जैनगर
परगना: गुमो

१	चिह्न	मिलानवादनम्बर १
२	चिह्न	मिलानवादनम्बर २
३	चिह्न	मिलानवादनम्बर ३
४	चिह्न	मिलानवादनम्बर ४



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRE	REMARKS
MARKACHO	DASARO KHURD	173	2	2523	18.1448	
MARKACHO	DASARO KHURD	173	2	4432	5.9719	
TOTAL AREA					24.1167	

Proposed Area in Ha of 17 - 3.70
Proposed Area in Ha of 18 - 3.21
Proposed Area in Ha of 19 - 0.54

Made and Published Under The Authority of Government.

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	374842.0684	2690260.473	24° 19' 13.620" N	85° 45' 59.275" E
P2	374810.9688	2690310.75	24° 19' 15.229" N	85° 45' 58.157" E
P3	374458.1875	2690161.5	24° 19' 10.292" N	85° 45' 45.689" E
P4	374412.7765	2690044.933	24° 19' 6.689" N	85° 45' 44.115" E
P5	374407.0938	2690126.25	24° 19' 9.131" N	85° 45' 43.887" E
P6	374391.8412	2690003.501	24° 19' 5.136" N	85° 45' 43.385" E
P7	374253.7267	2689778.197	24° 18' 57.772" N	85° 45' 38.557" E
P8	374300.484	2689819.766	24° 18' 59.137" N	85° 45' 40.202" E
P9	374290.2988	2689786.796	24° 18' 58.063" N	85° 45' 39.851" E
P10	374276.167	2689781.178	24° 18' 57.876" N	85° 45' 39.352" E
P11	374233.1878	2689573.867	24° 18' 51.124" N	85° 45' 37.893" E
P12	374271.4611	2689586.404	24° 18' 53.543" N	85° 45' 39.246" E

Superintendent of Survey

- Legend**
- PILLAR POINT
 - PROPOSED GHAT
 - VILLAGE WISE AREA

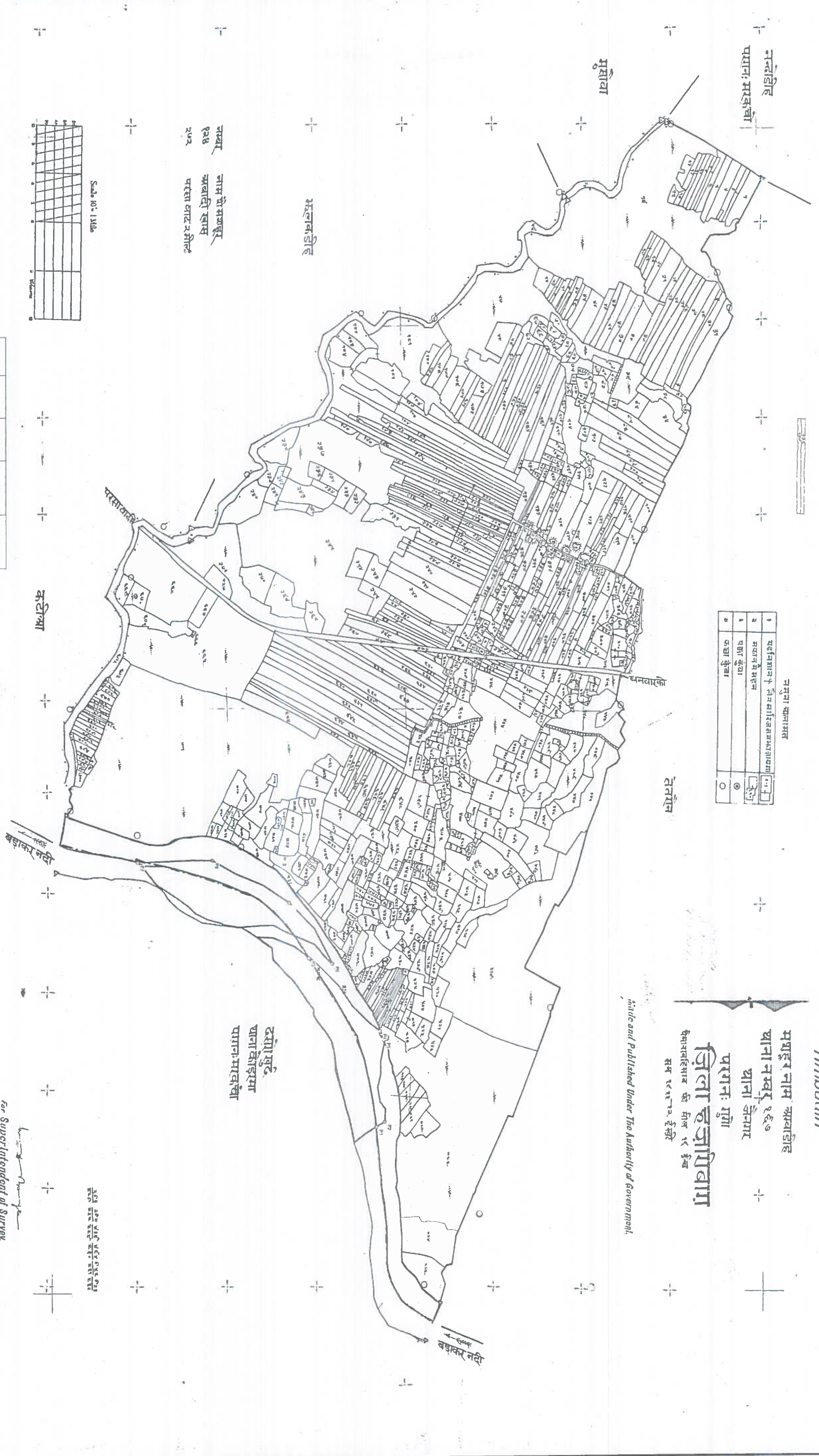
Proposed Ghat of PO_KD_JN_KS_17,18, Block-Jainagar,District - Koderma, JHARKHAND



नमस्ते	सामान्य
सर्वेक्षण	सर्वेक्षण
सर्वेक्षण	सर्वेक्षण
सर्वेक्षण	सर्वेक्षण
सर्वेक्षण	सर्वेक्षण

Ambadih
समस्त नाम अम्बडीह
धाना नम्बर १६९
धाना जैनागर
परगना: गुणो
जिला हजारीबाग
विभागाध्यक्ष की मील १६ ईड
सम १६ ईड ईड

Printed and Published Under The Authority of Government.



नम्बर
१६९
२७२
नाम शेरमहल
अम्बडीह नगर
परसावरी नदी

दसो भुट
धाना नम्बर
परगना: मारकचो

Scale 1:1000



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRE	REMARKS
JAINAGAR	AMBADIH	167	826	20	0.066	
TOTAL AREA					20.066	

Proposed Area in Ha of 17 - 3.70
Proposed Area in Ha of 18 - 3.21

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	374610.9688	2690310.25	24° 19' 15.229" N	85° 45' 58.157" E
P2	374600.4832	2690320.393	24° 19' 15.848" N	85° 45' 57.779" E
P3	374658.1875	2690161.5	24° 19' 10.297" N	85° 45' 45.687" E
P4	374613.2621	2690320.598	24° 19' 15.508" N	85° 45' 51.104" E
P5	374631.1481	2690328.492	24° 19' 15.770" N	85° 45' 51.772" E
P6	374470.606	2690214.828	24° 18' 12.009" N	85° 45' 46.117" E
P7	374253.7267	2689778.197	24° 18' 57.777" N	85° 45' 38.557" E
P8	374253.1885	2689945.717	24° 19' 3.218" N	85° 45' 38.449" E
P9	374340.5894	2690118.303	24° 19' 8.854" N	85° 45' 41.607" E

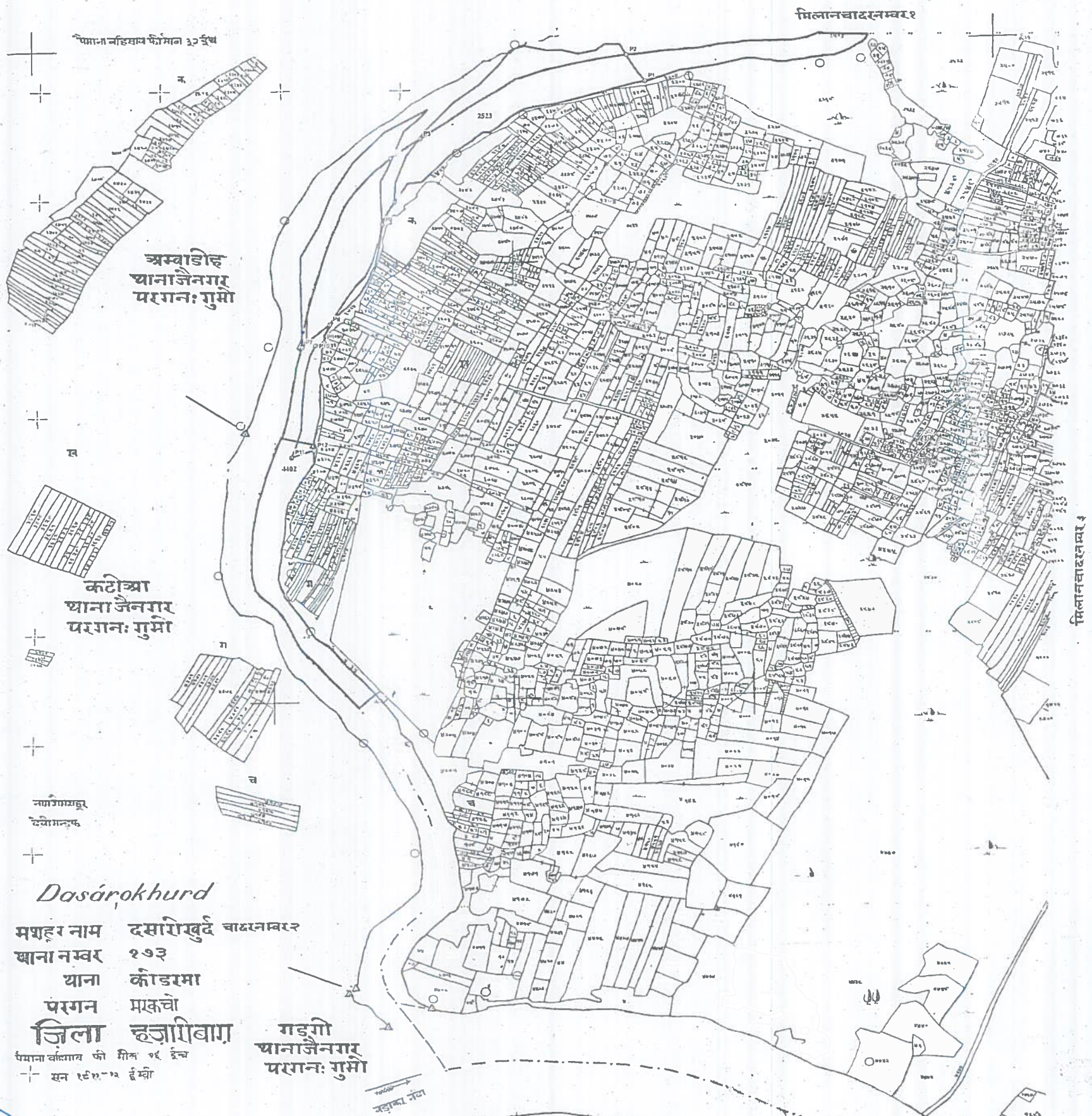
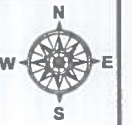
for Superintendent of Survey.

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA



Proposed Ghat of PO_KD_JN_KS_17,18,19, Block -Markacho,District - Koderma, JHARKHAND



नमना नगरपालिका
२५०१

Dasarokhurd

मशहर नाम दसरोखुर्द चादनम्वर १७३
थाना कोडरमा
परगना मरुचो
जिला हजारीबाग
थाना बरहकठा परगना: रामपुर

गडगो
थाना जैनगर
परगना: गुमो

नमना थाना मत

१	यदिनमान ५ दिन हरिब्रजसभाजायग	१०
२	मकान मरुच	१०
३	मकान देवा	१०
४	कडा देवा	१०

बडानो
थाना बरहकठा
परगना: रामपुर

Scale 10" = 1 Mile



Made and Published Under The Authority of Government.

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	374842.0684	2690260.471	24° 19' 13.620" N	85° 45' 58.275" E
P2	374810.9688	2690310.25	24° 19' 15.229" N	85° 45' 58.157" E
P3	374458.1875	2690161.5	24° 19' 10.292" N	85° 45' 45.689" E
P4	374412.7765	2690044.933	24° 19' 6.489" N	85° 45' 44.115" E
P5	374407.0938	2690126.25	24° 19' 9.131" N	85° 45' 43.887" E
P6	374391.8412	2690003.501	24° 19' 5.136" N	85° 45' 43.385" E
P7	374253.7267	2689778.197	24° 18' 57.772" N	85° 45' 38.557" E
P8	374300.484	2689819.766	24° 18' 59.137" N	85° 45' 40.202" E
P9	374290.2988	2689786.796	24° 18' 58.063" N	85° 45' 39.851" E
P10	374276.167	2689781.178	24° 18' 57.876" N	85° 45' 39.352" E
P11	374233.1878	2689573.867	24° 18' 51.124" N	85° 45' 37.893" E
P12	374271.4611	2689586.404	24° 18' 51.543" N	85° 45' 39.246" E

Approved

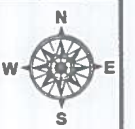
Proposed Area in Ha of 17 - 3.70
Proposed Area in Ha of 18 - 3.21
Proposed Area in Ha of 19 - 0.54

Superintendent of Survey

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

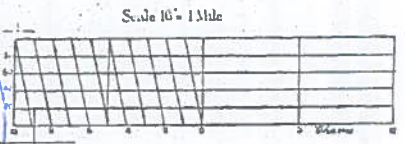
Proposed Ghat of PO_KD_JN_KS_17,18,19, Block -Markacho,District - Koderma, JHARKHAND



महसुल नाम: दसरोखुर्द चादलानम्बर १७३
थाना: कोडरमा
परगना: मांकेवा
जिला: हजारीबाग
महसुल: थाना जैनगर परगना: गुमो

नमूना चलामत

१	यह निम्नानुसार लेन खासिजसमभारिताया	रंग
२	मकान मसहिन	○
३	पक्का कुवा	□
४	कच्चा कुवा	○



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA In ACRE	REMARKS
MARKACHO	DASARO KHURD	173	2	2523	18.1448	
MARKACHO	DASARO KHURD	173	2	4432	5.9719	
TOTAL AREA					24.1167	

Proposed Area in Ha of 17 - 3.70
Proposed Area in Ha of 18 - 3.21
Proposed Area in Ha of 19 - 0.54

Made and Published Under The Authority of Government

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	374842.0684	2690260.471	24° 19' 13.620" N	85° 45' 59.275" E
P2	374810.9688	2690310.25	24° 19' 15.229" N	85° 45' 58.157" E
P3	374458.1875	2690161.5	24° 19' 10.292" N	85° 45' 45.689" E
P4	374412.7765	2690044.933	24° 19' 6.489" N	85° 45' 44.115" E
P5	374407.0938	2690126.25	24° 19' 9.131" N	85° 45' 43.887" E
P6	374391.8412	2690003.501	24° 19' 5.136" N	85° 45' 43.385" E
P7	374253.7267	2689778.197	24° 18' 57.772" N	85° 45' 38.557" E
P8	374300.484	2689819.766	24° 18' 59.137" N	85° 45' 40.202" E
P9	374290.2988	2689786.796	24° 18' 58.063" N	85° 45' 39.851" E
P10	374276.167	2689781.178	24° 18' 57.876" N	85° 45' 39.352" E
P11	374233.1878	2689573.867	24° 18' 51.124" N	85° 45' 37.893" E
P12	374271.4611	2689586.404	24° 18' 51.543" N	85° 45' 39.246" E

Superintendent of Survey

- Legend**
- PILLAR POINT
 - PROPOSED GHAT
 - VILLAGE WISE AREA

Nagrito

सुप्रसन्न नाम नमोवाही

१८८२

श्रीमान् काङ्ग्रेज

पर्याप्तः भद्रकोचो

जिना दानादाना

सम १८५-१० ई.पू.

सप्त १८२-१३ इ.स.वी

कानगाडी

श्रीगुरुभ्यो नमः

சாட்சி

五五五

Made and Published Under The Authority of Government.

साधनाश्री

बद्धलोभा
षाना जैनगार
परानः गुमो

नामवा	नाम धौ माराहू	
४०	झांगी झीहू टैलिके	
५२	{	
६६		हामापावाका
११०		टैलीक मनुप
४५१	ककरीस्याम	
८७४	अकरीस्याम	

Scale 16" = 1 Mile



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRE	REMARKS
MARKACHIO	MAGRITO	188	1	391	11.8031	
			TOTAL AREA		11.8031	

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	373726.9538	2694823.226	24° 21' 31.703" N	85° 45' 2.989" E
P2	373787.338	2694823.415	24° 21' 30.696" N	85° 45' 2.957" E
P3	373751.005	2694828.77	24° 21' 30.9507" N	85° 45' 3.633" E
P4	373728.3373	2694840.745	24° 21' 31.116" N	85° 45' 2.747" E
P5	373746.519	2694840.745	24° 21' 31.711" N	85° 45' 3.105" E
P6	373532.6974	2694843.58	24° 21' 29.451" N	85° 45' 7.705" E
P7	373452.088	2694843.961	24° 21' 29.347" N	85° 45' 10.578" E
P8	373504.5003	2694834.074	24° 21' 27.402" N	85° 45' 11.567" E
P9	373419.9793	2694906.187	24° 21' 24.782" N	85° 45' 9.959" E
P10	373400.0516	2694918.704	24° 21' 20.605" N	85° 45' 11.567" E
P11	373535.0716	2694939.811	24° 21' 22.605" N	85° 45' 11.567" E
P12	373567.3641	2694916.169	24° 21' 20.235" N	85° 45' 16.6307" E
P13	373567.3621	2694919.262	24° 21' 21.113" N	85° 45' 16.6307" E
P14	373749.5926	2694911.842	24° 21' 19.151" N	85° 45' 18.291" E
P15	373749.5926	2694911.757	24° 21' 20.134" N	85° 45' 18.291" E
P16	373594.8131	2694071.389	24° 21' 17.467" N	85° 45' 26.271" E
P17	373593.9659	2694071.389	24° 21' 17.502" N	85° 45' 27.978" E

pend

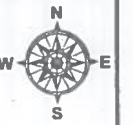
PILLAR POINT

PROPOSED GHAT

VILLAGE WISE AREA



Proposed Ghat of PO_KD_JN_KS_05,06,07,08,,09,10,11,12,13,, Block -Jainagar,District - Koderma, JHARKHAND



Baduliá

मशहूर नाम बदुलीआ

थाना नम्बर १६३

थाना जैनगर

परगना: गुमो

जिला हजारीबाग

पैमाना/हिसाब की मील १:१ इंच

सन १८९१-९२ ईस्वी

बांसडीह
थाना काइरमा
परगना: मावचा

नमूना आलामत

१	यह निशान + लिन हजारीबाग/मावचा	१:१
२	मकान में सहन	२:१
३	पट्टा कुंवा	३:१
४	कशा कुंवा	४:१

नाम्बर	नाम प्रो मशहूर
६६	गांवा देवती स्थान
५६८	अबादी लाम
२३४	जामामवाड़ा
२८३	काला मन्दप

Made and Published Under The Authority of Government.

नीपती
थाना काइरमा
परगना: मावचा

चोपनाडीह
थाना काइरमा
परगना: मावचा

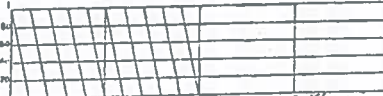
बेलाडीह
थाना काइरमा
परगना: मावचा

नवाडीह

केन्दुआटांड

चदरा

Scale 10" = 1 Mile



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRES	REMARKS
JAINAGAR	BADULIA	163	1	1	4.7801	
JAINAGAR	BADULIA	163	1	286	10.4502	
JAINAGAR	BADULIA	163	1	925	8.7934	
JAINAGAR	BADULIA	163	1	916	7.3148	
TOTAL AREA					31.3385	

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	373640.3438	2692848.5	24° 20' 37.401" N	85° 45' 15.822" E
P2	373602.4375	2692856.6	24° 20' 37.653" N	85° 45' 34.475" E
P3	373679.6838	2693105.274	24° 20' 45.759" N	85° 45' 37.137" E
P4	373689.1522	2693056.397	24° 20' 44.173" N	85° 45' 37.488" E
P5	373741.0308	2693137.238	24° 20' 46.816" N	85° 45' 39.307" E
P6	373745.4474	2693231.295	24° 20' 49.878" N	85° 45' 39.430" E
P7	373980.8794	2693632.237	24° 21' 2.977" N	85° 45' 27.626" E
P8	373923.2081	2693592.289	24° 21' 1.662" N	85° 45' 25.623" E
P9	373961.7235	2693600.811	24° 21' 4.876" N	85° 45' 26.958" E
P10	374026.2994	2693777.735	24° 21' 6.095" N	85° 45' 29.238" E
P11	374017.1921	2693866.643	24° 21' 10.673" N	85° 45' 28.870" E
P12	374056.5209	2693834.735	24° 21' 9.582" N	85° 45' 30.776" E
P13	374012.3695	2693988.386	24° 21' 34.564" N	85° 45' 38.661" E
P14	373945.8131	2694078.291	24° 21' 17.467" N	85° 45' 26.271" E
P15	373749.8936	2694131.842	24° 21' 18.151" N	85° 45' 19.281" E
P17	373801.2763	2694090.297	24° 21' 17.815" N	85° 45' 21.138" E
P18	373646.1631	2694166.169	24° 21' 20.236" N	85° 45' 15.610" E
P19	373600.0516	2694186.704	24° 21' 20.890" N	85° 45' 13.967" E
P20	373627.7622	2694150.161	24° 21' 19.711" N	85° 45' 14.962" E
P21	373504.9799	2694234.074	24° 21' 22.402" N	85° 45' 16.578" E
P22	373497.8244	2694214.652	24° 21' 21.769" N	85° 45' 16.311" E
P23	373473.1401	2694215.538	24° 21' 21.751" N	85° 45' 16.455" E
P24	373437.5296	2694287.245	24° 21' 24.111" N	85° 45' 18.170" E
P25	373286.3373	2694461.642	24° 21' 29.730" N	85° 45' 2.747" E
P26	373213.5406	2694490.086	24° 21' 30.639" N	85° 45' 0.155" E
P27	373186.0707	2694473.771	24° 21' 30.099" N	85° 44' 59.186" E
P28	372955.2889	2694550.231	24° 21' 32.507" N	85° 44' 51.114" E
P29	372970.8438	2694580	24° 21' 33.491" N	85° 44' 51.514" E
P30	373253.4375	2694492.25	24° 21' 30.772" N	85° 45' 1.570" E

For Superintendent of Survey.

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Area in Ha of 05 - 3.17
Proposed Area in Ha of 06 - 1.91
Proposed Area in Ha of 07 - 0.60
Proposed Area in Ha of 08 - 0.33
Proposed Area in Ha of 09 - 1.23
Proposed Area in Ha of 10 - 0.29
Proposed Area in Ha of 11 - 0.74
Proposed Area in Ha of 12 - 3.74
Proposed Area in Ha of 13 - 1.74

Proposed Ghat of PO_KD_JN_KS_05,06,07,08,,09,10,11,12,13,, Block -Jainagar,District - Koderma, JHARKHAND



Baduliá

मशहूर नाम बदुलीआ

थाना नम्बर १६३

थाना जैनगर

परगना: गुमो

जिला हजारीबाग

पैमाना/हिसाब की मील १:१०००
सन १९९९-२००० ईस्वी

बांमडीह
थाना काइरमा
परगना: माकचा

नमूना खालामत	
१	यह निशान + लेन हाजिरासम भूतजायगा
२	मकान में नहान
३	पट्टा कुंवा
४	कच्चा कुंवा

नम्बर	नाम
६६६	मशहूर
६६८	गांवां वलती स्थान
२३४	अबादी खास
२६६	हामामवाड़ा
२६५	काला मन्दप

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नगीपती
थाना काइरमा
परगना: माकचा

चापनाडीह
थाना काइरमा
परगना: माकचा

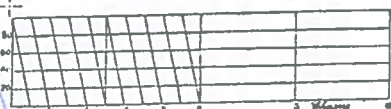
बलाडीह
थाना काइरमा
परगना: माकचा

नवाडीह

केन्दुआटांड

चदरा

Scale 10" = 1 Mile



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRE	REMARKS
JAINAGAR	BADULIA	163	1	1	4.7801	
JAINAGAR	BADULIA	163	1	286	10.4502	
JAINAGAR	BADULIA	163	1	925	8.7934	
JAINAGAR	BADULIA	163	1	916	7.3148	
TOTAL AREA					31.3385	

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	373640.3438	2692848.5	24° 20' 37.401" N	85° 45' 15.822" E
P2	373602.4375	2692856.6	24° 20' 37.653" N	85° 45' 14.475" E
P3	373679.6838	2693105.274	24° 20' 45.759" N	85° 45' 17.137" E
P4	373689.1522	2693056.397	24° 20' 44.171" N	85° 45' 17.488" E
P5	373741.0308	2693137.238	24° 20' 46.816" N	85° 45' 19.303" E
P6	373745.4474	2693231.395	24° 20' 49.878" N	85° 45' 19.430" E
P7	373980.8794	2693632.237	24° 21' 2.977" N	85° 45' 22.658" E
P8	373983.8081	2693592.280	24° 21' 1.662" N	85° 45' 26.623" E
P9	373961.7235	2693690.811	24° 21' 4.876" N	85° 45' 26.958" E
P10	374026.2994	2693777.735	24° 21' 6.095" N	85° 45' 29.238" E
P11	374017.1971	2693868.643	24° 21' 10.673" N	85° 45' 28.870" E
P12	374056.5279	2693834.735	24° 21' 8.562" N	85° 45' 30.776" E
P13	374012.3696	2693988.386	24° 21' 14.564" N	85° 45' 28.661" E
P14	373945.8131	2694078.293	24° 21' 17.467" N	85° 45' 26.771" E
P15	373749.5936	2694131.842	24° 21' 18.151" N	85° 45' 19.289" E
P17	373801.7768	2694392.257	24° 21' 12.815" N	85° 45' 21.138" E
P18	373646.1631	2694166.169	24° 21' 20.286" N	85° 45' 15.630" E
P19	373600.0516	2694186.704	24° 21' 20.880" N	85° 45' 13.967" E
P20	373627.7622	2694150.161	24° 21' 19.711" N	85° 45' 14.962" E
P21	373504.9799	2694234.074	24° 21' 22.402" N	85° 45' 10.578" E
P22	373497.8244	2694214.052	24° 21' 21.789" N	85° 45' 10.331" E
P23	373473.1401	2694215.538	24° 21' 21.791" N	85° 45' 10.450" E
P24	373437.596	2694287.245	24° 21' 24.111" N	85° 45' 8.170" E
P25	373286.1373	2694461.643	24° 21' 29.726" N	85° 45' 3.747" E
P26	373213.5408	2694490.086	24° 21' 30.639" N	85° 45' 0.155" E
P27	373186.0787	2694473.721	24° 21' 30.889" N	85° 44' 59.186" E
P28	372959.3889	2694558.231	24° 21' 32.539" N	85° 44' 51.114" E
P29	372970.8438	2694580	24° 21' 33.491" N	85° 44' 51.514" E
P30	373253.4375	2694492.75	24° 21' 30.722" N	85° 45' 1.570" E

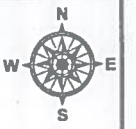
For Superintendent of Survey.

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Area in Ha of 05 - 3.17
Proposed Area in Ha of 06 - 1.91
Proposed Area in Ha of 07 - 0.60
Proposed Area in Ha of 08 - 0.33
Proposed Area in Ha of 09 - 1.23
Proposed Area in Ha of 10 - 0.29
Proposed Area in Ha of 11 - 0.74
Proposed Area in Ha of 12 - 3.74
Proposed Area in Ha of 13 - 1.74

Proposed Ghat of PO_KD_JN_KS_05,06,07,08,,09,10,11,12,13,, Block -Jainagar,District - Koderma, JHARKHAND



Baduliá

मशहूर नाम बदुलीआ

थाना नम्बर १६३

थाना जैनगर

परगना: गुमो

जिला हजारीबाग

पैमाना/हिसाब की मोल ईस्वी
सन १९९९-१२ ईस्वी

बांसडीह
थाना काड़ासा
परगना: मखचा

नमूना आलायत	
१	यदिनिशान + लेन खोदजसम ३६.७३५५५५
२	मकान में नहन
३	पट्टा कुंवा
४	कसा कुंवा

नम्बर	नाम प्रो मशहूर
१६३	गांवा वैवती स्थान
२३४	अबादी खाम
२३५	जामावाड़ा
२३६	काला मन्दप

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नगीरतो
थाना काड़ासा
परगना: मखचा

चोपनाडीह
थाना काड़ासा
परगना: मखचा

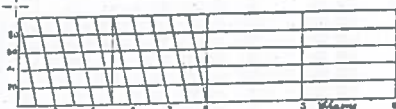
बलाडीह
थाना काड़ासा
परगना: मखचा

नवाडीह

चदरा

केन्दुआटांड

Scale 10" = 1 Mile



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRE	REMARKS
JAINAGAR	BADULIA	163	1	1	4.7801	
JAINAGAR	BADULIA	163	1	286	10.4502	
JAINAGAR	BADULIA	163	1	975	8.7934	
JAINAGAR	BADULIA	163	1	916	7.3148	
TOTAL AREA					31.3385	

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	373640.3438	2692848.5	24° 20' 37.401" N	85° 45' 15.823" E
P2	373602.4375	2692856.6	24° 20' 37.653" N	85° 45' 14.475" E
P3	373679.6838	2693105.774	24° 20' 45.759" N	85° 45' 17.137" E
P4	373689.1522	2693056.397	24° 20' 44.173" N	85° 45' 17.488" E
P5	373741.0308	2693137.238	24° 20' 46.818" N	85° 45' 19.303" E
P6	373745.4474	2693231.395	24° 20' 49.878" N	85° 45' 19.430" E
P7	373980.8794	2693632.217	24° 21' 2.977" N	85° 45' 27.655" E
P8	373983.2081	2693592.280	24° 21' 1.662" N	85° 45' 26.623" E
P9	373961.7235	2693690.811	24° 21' 4.876" N	85° 45' 26.958" E
P10	374026.2994	2693727.735	24° 21' 6.095" N	85° 45' 29.238" E
P11	374017.1821	2693866.643	24° 21' 10.673" N	85° 45' 28.870" E
P12	374056.5209	2693834.735	24° 21' 9.563" N	85° 45' 30.276" E
P13	374012.3696	2693988.385	24° 21' 14.564" N	85° 45' 28.661" E
P14	373945.8131	2694078.291	24° 21' 17.467" N	85° 45' 26.371" E
P15	373749.5836	2694131.942	24° 21' 18.151" N	85° 45' 19.291" E
P16	373801.7763	2694090.297	24° 21' 17.815" N	85° 45' 21.138" E
P17	373646.1631	2694166.169	24° 21' 30.236" N	85° 45' 15.610" E
P18	373600.0516	2694186.704	24° 21' 30.890" N	85° 45' 13.967" E
P19	373627.7622	2694150.161	24° 21' 19.711" N	85° 45' 14.962" E
P20	373504.9799	2694234.074	24° 21' 22.402" N	85° 45' 10.578" E
P21	373497.8244	2694214.652	24° 21' 21.769" N	85° 45' 10.331" E
P22	373473.1401	2694215.538	24° 21' 21.791" N	85° 45' 9.455" E
P23	373437.506	2694287.245	24° 21' 24.111" N	85° 45' 9.190" E
P24	373286.1571	2694461.642	24° 21' 29.785" N	85° 45' 9.247" E
P25	373213.5408	2694493.086	24° 21' 30.695" N	85° 45' 9.155" E
P26	373186.0707	2694473.771	24° 21' 30.099" N	85° 45' 9.186" E
P27	372959.2889	2694550.231	24° 21' 32.520" N	85° 45' 51.114" E
P28	372970.8438	2694580	24° 21' 33.491" N	85° 45' 51.514" E
P29	372953.4375	2694492.25	24° 21' 30.722" N	85° 45' 1.570" E

For Superintendent of Survey.

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Area in Ha of 05 - 3.17
Proposed Area in Ha of 06 - 1.91
Proposed Area in Ha of 07 - 0.60
Proposed Area in Ha of 08 - 0.33
Proposed Area in Ha of 09 - 1.23
Proposed Area in Ha of 10 - 0.29
Proposed Area in Ha of 11 - 0.74
Proposed Area in Ha of 12 - 3.74
Proposed Area in Ha of 13 - 1.74

Proposed Ghat of PO_KD_JN_KS_11,12, Block -Markachho, District - Koderna, JHARKHAND



1	परमनाम चोपनाडिह	1
2	पाना नम्वर १७७	2
3	परमनाम चोपनाडिह	3
4	पाना नम्वर १७७	4

Chopndih
परमनाम चोपनाडिह
पाना नम्वर १७७
परमनाम चोपनाडिह
पाना नम्वर १७७
पाना नम्वर १७७

Made and Published Under The Authority of Government.



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRES	REMARKS
MARKACHHO	CHOPNADIH	177	1	289	9.7549	
					TOTAL AREA	9.7549

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	374657.0394	2693797.141	24° 21' 8.360" N	85° 45' 30.546" E
P2	374657.2994	2693777.735	24° 21' 6.095" N	85° 45' 29.238" E
P3	374656.5791	2693745.441	24° 21' 6.677" N	85° 45' 30.023" E
P4	374656.5478	2693766.978	24° 21' 7.379" N	85° 45' 30.313" E
P5	373982.8794	2693632.237	24° 21' 2.977" N	85° 45' 27.655" E
P6	374013.7015	2693643.083	24° 21' 3.389" N	85° 45' 28.818" E
P7	373823.125	2693729.75	24° 20' 53.098" N	85° 45' 22.155" E
P8	373857.3125	2693710.5	24° 20' 52.482" N	85° 45' 23.378" E

Legend
PILLAR POINT
PROPOSED GHAT
VILLAGE WISE AREA



✓

Plate F
(As per JSAC Cadastral Map of Dhanarjay River)

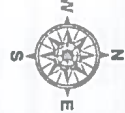


Proposed Ghat of PO_KD_KD_DJ_01, Block -Koderma, District - Koderma, JHARKHAND

करहरिया

धनारके नदी

Meghahari



वेबुय सई नम्बर ३
कनकरौरि रजिस्ट्रार नम्बर ३८६

मौजा मेघातौ

धाना कोडरमा नम्बर ३४४
परगना कोडरमा

जिला हजारीबाग

नक्सा का स्केल - एकमाइल बराबर १इंच।
सन १९६२-२३ वर्दी।

नयुना खलानत।

१	यह निशान १ साइन साईड सारकामा अथवा	३०५
२	फार मय मीमान	३०५
३	एम्मा गुंवा	३०५
४	पाटा (रेल, सड़क कोविद्यो देखावे)	३०५
५	पोटेस्ट व वॉरंट मीन्डो	३०५

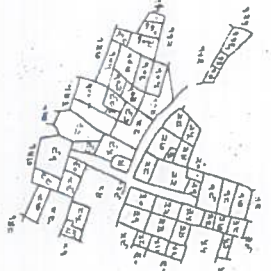
विशुनितिकार

रवसपुर
जिला गया

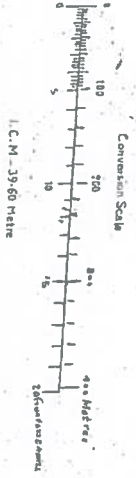
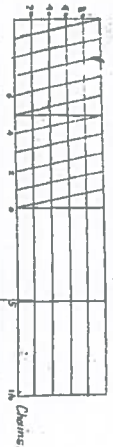
नम्बर ३
२७३
२७८
२८८
३८३
नम गै मगहूर
दोना काराकुला
फोस्ट वंगला
जाकदोला
मगहूर साम
काला मडप

Map is Published Under the Authority of Government.

स्कैल १ माइल बराबर ३इंच।



Scale 1/6 inches = 1 Mile



रिजिस्ट्रार फोस्ट

Superintendent of Survey

Legend

● PILLAR POINT

□ PROPOSED GHAT

□ VILLAGE WISE AREA



Proposed Area in Ha of 01- 0.79

Proposed Ghat of PO_KD_KD_DJ_01,11,12, Block -Koderma, District - Koderma, JHARKHAND

वेक्टर सर्वे नम्बर १
कानकशेरी नजिर नम्बर ३०३

मौजा करहिया

धाना कोडरमा नम्बर ३४५
परधाना कोडरमा

जिला हजारीबाग

नकाशा स्थान - धनगढल बजार ०६ हज.।
सन २०२२ - २३ वृत्तीय ।

रिजिस्ट्रार फोरस्ट

हुबडा
जिला गथा

रतनपुर
जिला गथा

नक्सा नाम है मजहूर
१३६ अवाही सार
३३२ वरहम देवस्थान

Scale 16 inches = 1 Mile.

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA In ACRE	REMARKS
KODERMA	KARHANA	345	1	229	RIVER	29.7556	
KODERMA	KARHANA	345	1	363	RIVER	6.9361	
TOTAL AREA						36.6917	

Proposed Area in Ha of 01-0.79
Proposed Area in Ha of 11-0.85
Proposed Area in Ha of 12-0.57

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE	NAME
P1	354909.8012	2719792.496	24°35'7.308" N	85°34'1.373" E	KARHANA 345 01
P2	354933.6347	2719860.746	24°35'9.506" N	85°34'1.135" E	KARHANA 345 01
P3	354908.4748	2719860.137	24°35'8.712" N	85°34'4.871" E	KARHANA 345 01
P4	354907.3132	2719785.568	24°35'7.446" N	85°34'4.485" E	KARHANA 345 01
P5	354910.2983	2719860.179	24°35'8.347" N	85°34'4.485" E	KARHANA 345 01
P6	354909.8074	2719861.988	24°35'8.347" N	85°34'4.485" E	KARHANA 345 01
P7	354910.5606	2719765.217	24°35'6.845" N	85°34'4.370" E	KARHANA 345 01
P8	354915.6942	2719745.507	24°35'6.225" N	85°34'4.602" E	KARHANA 345 01
P9	354909.6243	2719702.463	24°35'4.867" N	85°34'5.043" E	KARHANA 345 01
P10	354938.0215	2719705.344	24°35'4.877" N	85°34'5.173" E	KARHANA 345 01
P11	354947.7925	2719664.907	24°35'3.657" N	85°34'5.806" E	KARHANA 345 01
P12	354955.8659	2719593.835	24°35'1.407" N	85°34'5.957" E	KARHANA 345 01
P13	354946.5851	2719608.496	24°35'1.897" N	85°34'5.957" E	KARHANA 345 01
P14	354905.4195	2719653.983	24°35'2.714" N	85°34'5.149" E	KARHANA 345 01
P15	354905.4195	2719653.983	24°35'2.714" N	85°34'5.149" E	KARHANA 345 01

Made and Published Under The Authority of Government.

नयुना शालाभर 1

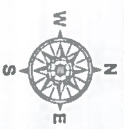
1	यह निशान 1 साइन कार्डन सगमजगया	2	यह निशान 1 साइन कार्डन सगमजगया
3	यह निशान 1 साइन कार्डन सगमजगया	4	यह निशान 1 साइन कार्डन सगमजगया
5	यह निशान 1 साइन कार्डन सगमजगया	6	यह निशान 1 साइन कार्डन सगमजगया
7	यह निशान 1 साइन कार्डन सगमजगया	8	यह निशान 1 साइन कार्डन सगमजगया
9	यह निशान 1 साइन कार्डन सगमजगया	10	यह निशान 1 साइन कार्डन सगमजगया
11	यह निशान 1 साइन कार्डन सगमजगया	12	यह निशान 1 साइन कार्डन सगमजगया
13	यह निशान 1 साइन कार्डन सगमजगया	14	यह निशान 1 साइन कार्डन सगमजगया
15	यह निशान 1 साइन कार्डन सगमजगया	16	यह निशान 1 साइन कार्डन सगमजगया
17	यह निशान 1 साइन कार्डन सगमजगया	18	यह निशान 1 साइन कार्डन सगमजगया
19	यह निशान 1 साइन कार्डन सगमजगया	20	यह निशान 1 साइन कार्डन सगमजगया
21	यह निशान 1 साइन कार्डन सगमजगया	22	यह निशान 1 साइन कार्डन सगमजगया
23	यह निशान 1 साइन कार्डन सगमजगया	24	यह निशान 1 साइन कार्डन सगमजगया
25	यह निशान 1 साइन कार्डन सगमजगया	26	यह निशान 1 साइन कार्डन सगमजगया
27	यह निशान 1 साइन कार्डन सगमजगया	28	यह निशान 1 साइन कार्डन सगमजगया
29	यह निशान 1 साइन कार्डन सगमजगया	30	यह निशान 1 साइन कार्डन सगमजगया
31	यह निशान 1 साइन कार्डन सगमजगया	32	यह निशान 1 साइन कार्डन सगमजगया
33	यह निशान 1 साइन कार्डन सगमजगया	34	यह निशान 1 साइन कार्डन सगमजगया
35	यह निशान 1 साइन कार्डन सगमजगया	36	यह निशान 1 साइन कार्डन सगमजगया
37	यह निशान 1 साइन कार्डन सगमजगया	38	यह निशान 1 साइन कार्डन सगमजगया
39	यह निशान 1 साइन कार्डन सगमजगया	40	यह निशान 1 साइन कार्डन सगमजगया
41	यह निशान 1 साइन कार्डन सगमजगया	42	यह निशान 1 साइन कार्डन सगमजगया
43	यह निशान 1 साइन कार्डन सगमजगया	44	यह निशान 1 साइन कार्डन सगमजगया
45	यह निशान 1 साइन कार्डन सगमजगया	46	यह निशान 1 साइन कार्डन सगमजगया
47	यह निशान 1 साइन कार्डन सगमजगया	48	यह निशान 1 साइन कार्डन सगमजगया
49	यह निशान 1 साइन कार्डन सगमजगया	50	यह निशान 1 साइन कार्डन सगमजगया
51	यह निशान 1 साइन कार्डन सगमजगया	52	यह निशान 1 साइन कार्डन सगमजगया
53	यह निशान 1 साइन कार्डन सगमजगया	54	यह निशान 1 साइन कार्डन सगमजगया
55	यह निशान 1 साइन कार्डन सगमजगया	56	यह निशान 1 साइन कार्डन सगमजगया
57	यह निशान 1 साइन कार्डन सगमजगया	58	यह निशान 1 साइन कार्डन सगमजगया
59	यह निशान 1 साइन कार्डन सगमजगया	60	यह निशान 1 साइन कार्डन सगमजगया
61	यह निशान 1 साइन कार्डन सगमजगया	62	यह निशान 1 साइन कार्डन सगमजगया
63	यह निशान 1 साइन कार्डन सगमजगया	64	यह निशान 1 साइन कार्डन सगमजगया
65	यह निशान 1 साइन कार्डन सगमजगया	66	यह निशान 1 साइन कार्डन सगमजगया
67	यह निशान 1 साइन कार्डन सगमजगया	68	यह निशान 1 साइन कार्डन सगमजगया
69	यह निशान 1 साइन कार्डन सगमजगया	70	यह निशान 1 साइन कार्डन सगमजगया
71	यह निशान 1 साइन कार्डन सगमजगया	72	यह निशान 1 साइन कार्डन सगमजगया
73	यह निशान 1 साइन कार्डन सगमजगया	74	यह निशान 1 साइन कार्डन सगमजगया
75	यह निशान 1 साइन कार्डन सगमजगया	76	यह निशान 1 साइन कार्डन सगमजगया
77	यह निशान 1 साइन कार्डन सगमजगया	78	यह निशान 1 साइन कार्डन सगमजगया
79	यह निशान 1 साइन कार्डन सगमजगया	80	यह निशान 1 साइन कार्डन सगमजगया
81	यह निशान 1 साइन कार्डन सगमजगया	82	यह निशान 1 साइन कार्डन सगमजगया
83	यह निशान 1 साइन कार्डन सगमजगया	84	यह निशान 1 साइन कार्डन सगमजगया
85	यह निशान 1 साइन कार्डन सगमजगया	86	यह निशान 1 साइन कार्डन सगमजगया
87	यह निशान 1 साइन कार्डन सगमजगया	88	यह निशान 1 साइन कार्डन सगमजगया
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91	यह निशान 1 साइन कार्डन सगमजगया	92	यह निशान 1 साइन कार्डन सगमजगया
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95	यह निशान 1 साइन कार्डन सगमजगया	96	यह निशान 1 साइन कार्डन सगमजगया
97	यह निशान 1 साइन कार्डन सगमजगया	98	यह निशान 1 साइन कार्डन सगमजगया
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Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA



Proposed Chat of PO_KD_KD_DJ_05,06,07,11,12, Block-Koderma, District - Koderma, JHARKHAND



खेतल १ माडल कावा २२ इन्च ।



करहरिया

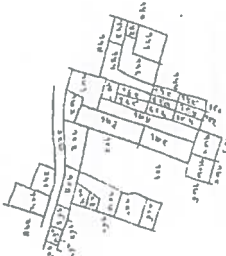


Bishumitika

बेवमु सेव नमर २
कलवारी येजिस्ट नमर २८
मौजा बिशुमिटिकर
पाना कोडरमा नमर ३०४
मराना कोडरमा

जिला नजारी बाग
नक्सा का रकबा - एकनाइल नोवा २६ इन्च ।
साल २०२० - २३ ईस्वी ।

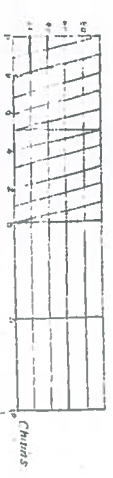
मेघाचौर



खेतल १ माडल कावा ३० इन्च ।

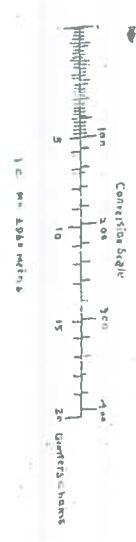
PILAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	356010.2983	2719893.179	24°35' 8.247" N	85°34' 40.485" E
P2	356012.527	2719791.105	24°35' 7.655" N	85°34' 40.571" E
P3	356000.5656	2719765.217	24°35' 6.843" N	85°34' 43.707" E
P4	356005.6942	2719745.507	24°35' 6.225" N	85°34' 46.037" E
P5	356009.6243	2719702.463	24°35' 4.867" N	85°34' 50.453" E
P6	356021.285	2719716.918	24°35' 5.314" N	85°34' 48.019" E
P7	356044.1119	2719700.844	24°35' 4.843" N	85°34' 49.811" E
P8	356074.7849	2719660.055	24°35' 3.582" N	85°34' 53.485" E
P9	356097.2195	2719666.679	24°35' 3.740" N	85°34' 54.291" E
P10	356067.7525	2719644.947	24°35' 3.027" N	85°34' 56.806" E
P11	356055.8559	2719593.935	24°35' 1.427" N	85°34' 59.957" E
P12	356083.7154	2719584.77	24°35' 1.027" N	85°35' 0.968" E
P13	356035.9609	2719506.056	24°34' 44.197" N	85°34' 51.983" E
P14	356035.59	2719486.057	24°34' 43.632" N	85°34' 51.983" E
P15	356030.7346	2719507.532	24°34' 44.277" N	85°34' 55.702" E
P16	356046.0119	2719503.575	24°34' 43.184" N	85°34' 56.861" E
P17	356035.5403	2719507.826	24°34' 44.678" N	85°34' 55.865" E
P18	356049.8848	2719504.347	24°34' 45.169" N	85°34' 57.865" E
P19	356029.4884	2719571.686	24°34' 41.423" N	85°35' 2.799" E
P20	356064.2274	2719570.369	24°34' 41.197" N	85°35' 4.037" E
P21	356006.9913	2719573.947	24°34' 41.294" N	85°35' 2.001" E
P22	356075.8191	2719502.828	24°34' 38.007" N	85°35' 4.615" E
P23	356075.1397	2719478.119	24°34' 34.965" N	85°35' 5.916" E
P24	356010.9339	2719830.202	24°34' 36.656" N	85°35' 5.746" E

Scale 1:6 inches = 1 Mile



Proposed Area in Ha of 05-0.42
Proposed Area in Ha of 06-1.01
Proposed Area in Ha of 07-0.44
Proposed Area in Ha of 11-0.85
Proposed Area in Ha of 12-0.57

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA IN ACRES	REMARKS
KODERMA	BISHUMITIKA	346	1	280	AREA	6.699	
KODERMA	BISHUMITIKA	346	1	321	AREA	13.343	
KODERMA	BISHUMITIKA	346	1	354	AREA	15.572	
TOTAL AREA						25.614	



रिजिस्ट्रार फोरस

Superintendent of Survey



- Legend
- PILLAR POINT
 - PROPOSED CHAT
 - VILLAGE WISE AREA

Proposed Ghat of PO_KD_KD_DJ_05,06,07,11,12, Block-Koderma, District - Koderma, JHARKHAND



स्केल १ माइल काटकर ३० इंच

कराहिया

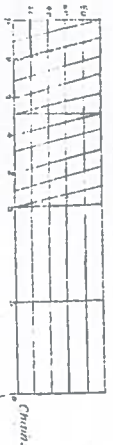
स्केल १ माइल काटकर ३० इंच

घनारो नदी

मेघाली

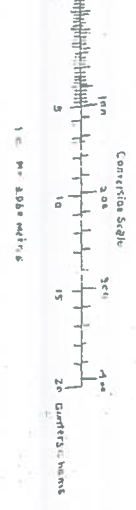
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	356010.2983	2719803.119	24°35' 8.242" N	85°34' 40.485" E
P2	356012.527	2719791.105	24°35' 7.855" N	85°34' 40.571" E
P3	356100.5656	2719765.217	24°35' 6.843" N	85°34' 43.710" E
P4	356165.6942	2719745.507	24°35' 6.235" N	85°34' 46.037" E
P5	356289.6743	2719702.463	24°35' 4.867" N	85°34' 50.453" E
P6	356321.285	2719716.918	24°35' 5.314" N	85°34' 48.007" E
P7	356343.333	2719734.333	24°35' 5.444" N	85°34' 49.333" E
P8	356374.7819	2719662.055	24°35' 3.587" N	85°34' 51.495" E
P9	356397.2195	2719666.679	24°35' 3.747" N	85°34' 54.291" E
P10	356467.7525	2719644.947	24°35' 3.025" N	85°34' 56.807" E
P11	356555.8559	2719631.935	24°35' 1.439" N	85°34' 59.597" E
P12	356583.7154	2719588.877	24°35' 0.877" N	85°35' 0.588" E
P13	356535.8609	2719566.056	24°34' 44.197" N	85°34' 52.334" E
P14	356325.59	2719516.657	24°34' 45.857" N	85°34' 51.885" E
P15	356430.7346	2719567.532	24°34' 44.277" N	85°34' 55.702" E
P16	356463.0119	2719503.575	24°34' 43.184" N	85°34' 55.861" E
P17	356435.5403	2719079.826	24°34' 44.678" N	85°34' 55.866" E
P18	356491.8848	2719094.347	24°34' 45.189" N	85°34' 57.866" E
P19	356629.4884	2718971.686	24°34' 41.423" N	85°35' 2.799" E
P20	356664.2274	2718970.569	24°34' 41.197" N	85°35' 2.007" E
P21	356666.9913	2718973.947	24°34' 41.284" N	85°35' 2.007" E
P22	356679.8191	2718901.828	24°34' 39.007" N	85°35' 4.615" E
P23	356715.1397	2718778.119	24°34' 34.965" N	85°35' 5.916" E
P24	356710.9339	2718830.202	24°34' 36.659" N	85°35' 5.748" E

Scale 1/6 inches = 1 Mile



Proposed Area in Ha of 05-0.42
Proposed Area in Ha of 06-1.01
Proposed Area in Ha of 07-0.44
Proposed Area in Ha of 11-0.85
Proposed Area in Ha of 12-0.57

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA IN ACRE	REMARKS
KODERMA	BISHUNTIKAR	346	1	280	INVER	6.6978	
KODERMA	BISHUNTIKAR	346	1	321	INVER	13.848	
KODERMA	BISHUNTIKAR	346	1	394	INVER	15.5372	
TOTAL AREA						36.083	



1. यह निशान है नदी का किनारा	2. यह निशान है नदी का किनारा
3. यह निशान है नदी का किनारा	4. यह निशान है नदी का किनारा
5. यह निशान है नदी का किनारा	6. यह निशान है नदी का किनारा
7. यह निशान है नदी का किनारा	8. यह निशान है नदी का किनारा
9. यह निशान है नदी का किनारा	10. यह निशान है नदी का किनारा

बिहार सरकार
कलकत्ता
मौजा बिशुनितिकर
पाना
कोडरमा
प्रधाना कोडरमा

जिला नजारी बाग

नक्शा का स्केल - एम्माइल नक्शा २० इंच

रिजिस्ट्रार फोरस

Superintendent of Survey

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA



Proposed Ghat of PO_KD_KD_DJ_05,06,07,11,12, Block-Koderma, District - Koderma, JHARKHAND



स्केल १ माइल कागज़ ३० इंच

करहािया

स्केल १ माइल कागज़ ३० इंच

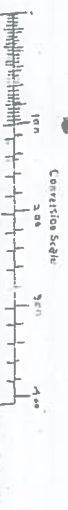
Bishunitiker
वेदगुप्त सिंह नम्बर २
कलकत्ता रजिस्ट्रार नम्बर २८
मीना विधुनिधिकर
पाना कोडरमा नम्बर ३०६
पराना कोडरमा

जिला सचिवो बाग
नया का खेला - एडमोडल नगर रद हल।
सन २०२० - २१ हेली।

१	यह निशान १ नम्बर खासतः सामक कोडरमा	१
२	यह नया पाना	२
३	यह नया पाना	३
४	यह नया पाना	४
५	यह नया पाना	५
६	यह नया पाना	६
७	यह नया पाना	७
८	यह नया पाना	८
९	यह नया पाना	९
१०	यह नया पाना	१०

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	356010.2883	271909.179	24°35' 8.247" N	85°34' 40.887" E
P2	356012.587	271909.105	24°35' 7.655" N	85°34' 40.571" E
P3	356015.694	271909.217	24°35' 6.845" N	85°34' 43.710" E
P4	356018.6243	271902.463	24°35' 4.867" N	85°34' 50.453" E
P5	356021.795	271902.463	24°35' 5.314" N	85°34' 48.019" E
P6	356024.795	271902.463	24°35' 5.314" N	85°34' 48.019" E
P7	356027.795	271902.463	24°35' 5.314" N	85°34' 48.019" E
P8	356030.795	271902.463	24°35' 5.314" N	85°34' 48.019" E
P9	356033.795	271902.463	24°35' 5.314" N	85°34' 48.019" E
P10	356036.795	271902.463	24°35' 5.314" N	85°34' 48.019" E
P11	356039.795	271902.463	24°35' 5.314" N	85°34' 48.019" E
P12	356042.795	271902.463	24°35' 5.314" N	85°34' 48.019" E
P13	356045.795	271902.463	24°35' 5.314" N	85°34' 48.019" E
P14	356048.795	271902.463	24°35' 5.314" N	85°34' 48.019" E
P15	356051.795	271902.463	24°35' 5.314" N	85°34' 48.019" E
P16	356054.795	271902.463	24°35' 5.314" N	85°34' 48.019" E
P17	356057.795	271902.463	24°35' 5.314" N	85°34' 48.019" E
P18	356060.795	271902.463	24°35' 5.314" N	85°34' 48.019" E
P19	356063.795	271902.463	24°35' 5.314" N	85°34' 48.019" E
P20	356066.795	271902.463	24°35' 5.314" N	85°34' 48.019" E
P21	356069.795	271902.463	24°35' 5.314" N	85°34' 48.019" E
P22	356072.795	271902.463	24°35' 5.314" N	85°34' 48.019" E
P23	356075.795	271902.463	24°35' 5.314" N	85°34' 48.019" E
P24	356078.795	271902.463	24°35' 5.314" N	85°34' 48.019" E

Scale 1/6 inch = 1 Mile



रिजिस्ट्रार फोरस

Superintendent of Survey

Legend

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA IN ACRES	REMARKS
KODERMA	BISHUNITIKAR	346	1	280	RIVER	6.6798	
KODERMA	BISHUNITIKAR	346	1	311	RIVER	11.848	
KODERMA	BISHUNITIKAR	346	1	394	RIVER	11.577	
TOTAL AREA						30.105	



PILLAR POINT
PROPOSED GHAT
VILLAGE WISE AREA

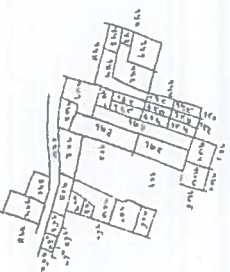
Proposed Ghat of PO_KD_KD_DJ_05,06,07,11,12, Block-Koderma, District - Koderma, JHARKHAND



खेतल १ माडल साधार ३० इन्च

करिया

खेतल १ माडल साधार ३० इन्च



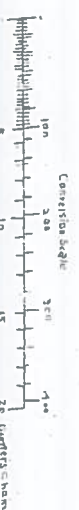
Bishunthiker
देवगु सर्वे समार २
कलवारी रेजिस्टर समार २८
मौजा बिशुनथिकर
पाना कोडरमा नगर रोड
पराना कोडरमा

जिला सचिवोबाग
नकासा का खेतल - एम.नाडल न.पानर २८ इन्च।
सन २८२२ - २३ इन्च।

नमूना प्रलोभत ।	
१	यह निशान १ नमूना साधार ३० इन्च का नमूना
२	यह नमूना पाना
३	यह नमूना
४	यह नमूना (यह नमूना कोडरमा)
५	यह नमूना कोडरमा

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	356010.2883	2718803.179	24°35' 8.247" N	85°34' 40.487" E
P2	356012.577	2718791.105	24°35' 7.655" N	85°34' 40.577" E
P3	356100.5636	2718785.217	24°35' 6.843" N	85°34' 41.710" E
P4	356165.6942	2718745.507	24°35' 6.225" N	85°34' 46.037" E
P5	356289.6243	2718702.463	24°35' 4.867" N	85°34' 50.453" E
P6	356221.295	2718716.918	24°35' 5.314" N	85°34' 48.019" E
P7	356244.8131	2718703.854	24°35' 4.867" N	85°34' 48.019" E
P8	356374.7049	2718662.055	24°35' 3.587" N	85°34' 53.497" E
P9	356397.2125	2718666.679	24°35' 3.742" N	85°34' 54.291" E
P10	356467.7525	2718644.447	24°35' 3.001" N	85°34' 56.806" E
P11	356555.8539	2718593.935	24°35' 1.433" N	85°34' 59.957" E
P12	356583.7154	2718584.777	24°35' 1.143" N	85°35' 0.869" E
P13	356335.9609	2718606.056	24°34' 44.197" N	85°34' 52.334" E
P14	356430.7346	2718607.532	24°34' 44.277" N	85°34' 55.702" E
P15	356463.0119	2718603.575	24°34' 43.184" N	85°34' 56.801" E
P16	356435.5403	2718579.826	24°34' 44.678" N	85°34' 57.866" E
P17	356491.8948	2718594.347	24°34' 45.169" N	85°34' 57.866" E
P18	356435.4884	2718577.886	24°34' 41.423" N	85°35' 2.799" E
P19	356664.2274	2718570.389	24°34' 41.197" N	85°35' 4.037" E
P20	356606.6913	2718573.947	24°34' 41.294" N	85°35' 2.001" E
P21	356715.1397	2718570.828	24°34' 34.865" N	85°35' 4.616" E
P22	356715.1397	2718570.828	24°34' 34.865" N	85°35' 4.616" E
P23	356715.1397	2718570.828	24°34' 34.865" N	85°35' 4.616" E
P24	356710.9339	2718580.202	24°34' 38.656" N	85°35' 5.746" E

Scale 1/6 inch = 1 mile



रिजिस्ट्रार फोरस

Superintendent, Survey

Legend

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA IN ACRE	REMARKS
KODERMA	RESIDENTIAL	346	1	280	AREA	6.698	
KODERMA	RESIDENTIAL	346	1	321	AREA	13.848	
KODERMA	RESIDENTIAL	346	1	394	AREA	15.503	
TOTAL AREA						36.049	



- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

भोजन करहिया

जिआ हजायिबाना

नकाका स्त्रीण - एकमात्रत वनाव ५६६५ ।
सप ५६६५ - रम इति ।

दिजिटल प्रोसेस



Made and Published Under The Authority of Government.

BLOCK NAME	VILLAGE NAME	SHEET NO	PLOT NO	LAND TYPE	AREA IN ACRE	REMARKS
KODERMA	KARHARIA	345	1	229 RIVER	29.7056	
KODERMA	KARHARIA	345	1	363 RIVER	6.5361	
				TOTAL AREA	36.6417	

Proposed Area in Ha of 01-0.79
Proposed Area in Ha of 11-0.85
Proposed Area in Ha of 12-0.57

PLACID NO	EASTING	NORTHING	LATITUDE	LONGITUDE	NAME
P1	354909.8012	2719792.496	24°55' 7.329" N	85°34' 1.373" E	KARARUA 345. 01
P2	354843.6347	2719860.137	24°55' 9.226" N	85°33' 59.531" E	KARARUA 345. 01
P3	354903.6746	2719860.1367	24°55' 9.226" N	85°34' 1.351" E	KARARUA 345. 01
P4	355008.4748	2719818.628	24°55' 8.742" N	85°34' 4.871" E	KARARUA 345. 01
P5	354907.4748	2719818.628	24°55' 8.742" N	85°34' 4.868" E	KARARUA 345. 01
P6	356010.2983	2719905.179	24°55' 8.742" N	85°34' 40.485" E	KARARUA 345. 01
P7	355009.6071	2719911.968	24°55' 8.333" N	85°34' 40.695" E	KARARUA 345. 01
P8	356100.5656	2719916.217	24°55' 8.413" N	85°34' 40.776" E	KARARUA 345. 01
P9	356165.6951	2719915.507	24°55' 8.625" N	85°34' 46.937" E	KARARUA 345. 01
P10	356209.6243	2719917.463	24°55' 8.657" N	85°34' 50.453" E	KARARUA 345. 01
P11	356388.0215	2719919.344	24°55' 8.977" N	85°34' 52.173" E	KARARUA 345. 01
P12	356667.7525	2719964.947	24°55' 8.105" N	85°34' 56.800" E	KARARUA 345. 01
P13	356655.7279	2719964.935	24°55' 8.093" N	85°34' 56.976" E	KARARUA 345. 01
P14	356566.5851	2719908.498	24°55' 1.899" N	85°34' 59.142" E	KARARUA 345. 01
P15	356505.6051	2719908.493	24°55' 2.714" N	85°34' 59.637" E	KARARUA 345. 01

१. यह निशान | लाइन स्कारिज सरसमजनापमा	2008
२. घट नपद श्रांतन	सक
३. प्रका जुंवा	०
४. पाया (पेल, सडक कोरियर इत्यादि)	०
५. प्रोटोकरड फॉरिंत बाड्डी ०	०

नमुना आलाभत

[illegible]

Superintendent of State

Legend

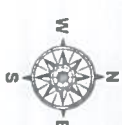
PILLAR POINT

PROPOSED GHAT

VILLAGE WISE AREA



Proposed Ghat of PO_KD_KD_DJ_05,06,07,11,12, Block-Koderma, District - Koderma, JHARKHAND

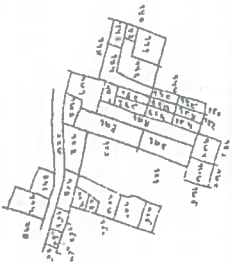


स्केल १ माइल लावार ३० इंच ।

करािया



घनारले नदी



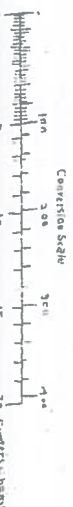
मेघाली

PILAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	356010.2983	2719809.179	24°35' 8.242" N	85°34' 40.485" E
P2	356012.527	2719791.105	24°35' 7.655" N	85°34' 40.571" E
P3	356100.5656	2719765.217	24°35' 6.843" N	85°34' 43.710" E
P4	356105.6942	2719745.507	24°35' 6.225" N	85°34' 46.032" E
P5	356089.6243	2719702.463	24°35' 4.867" N	85°34' 50.453" E
P6	356221.205	2719716.918	24°35' 5.314" N	85°34' 48.019" E
P7	356144.8111	2719734.814	24°35' 4.811" N	85°34' 49.511" E
P8	356174.7893	2719661.055	24°35' 3.582" N	85°34' 54.291" E
P9	356197.2195	2719664.679	24°35' 3.740" N	85°34' 54.291" E
P10	356467.725	2719444.947	24°35' 3.007" N	85°34' 56.806" E
P11	356555.8559	2719531.935	24°35' 1.437" N	85°34' 59.597" E
P12	356683.7154	2719384.77	24°35' 0.007" N	85°35' 0.989" E
P13	356735.9609	2719066.056	24°34' 44.197" N	85°34' 52.334" E
P14	356835.59	2718916.037	24°34' 44.277" N	85°34' 55.702" E
P15	356930.7346	2718661.532	24°34' 44.277" N	85°34' 55.702" E
P16	356463.0119	2719031.575	24°34' 43.184" N	85°34' 56.861" E
P17	356435.5403	2719079.826	24°34' 44.678" N	85°34' 56.861" E
P18	356491.8848	2719094.347	24°34' 45.169" N	85°34' 57.865" E
P19	356629.4884	2718971.686	24°34' 41.423" N	85°34' 57.865" E
P20	356664.2274	2718971.369	24°34' 41.197" N	85°34' 57.865" E
P21	356606.8913	2718971.947	24°34' 41.204" N	85°34' 57.865" E
P22	356679.8191	2718902.828	24°34' 39.007" N	85°34' 57.865" E
P23	356715.1397	2718778.119	24°34' 34.965" N	85°34' 57.865" E
P24	356710.9339	2718830.202	24°34' 36.656" N	85°34' 57.865" E

Scale 1:6 inches = 1 Mile



Chirais



1:6 inches = 1 Mile

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA IN ACRES	REMARKS
KODERMA	BISHUNTIKAR	346	1	280	RIVER	6.6399	
KODERMA	BISHUNTIKAR	346	1	321	RIVER	13.846	
KODERMA	BISHUNTIKAR	346	1	331	RIVER	15.5773	
KODERMA	BISHUNTIKAR	346	1	331	RIVER	15.5773	
TOTAL AREA						51.0635	

Bishunthikar
विकास क्षेत्र नम्बर २
कलवारी विधिकर नम्बर २८
मौजा विधुनथिकर
पोस्टा नम्बर ३४६
पाना कोडरमा
पराना कोडरमा
जिला नजारी बाग
नक्सा का क्षेत्र - एमएनडल नगर थर इन्च ।
सन २०२०-२३ ईस्वी ।

1	यह निशान १ नम्बर का क्षेत्र का नाम है	2	यह निशान २ नम्बर का क्षेत्र का नाम है
3	यह निशान ३ नम्बर का क्षेत्र का नाम है	4	यह निशान ४ नम्बर का क्षेत्र का नाम है
5	यह निशान ५ नम्बर का क्षेत्र का नाम है	6	यह निशान ६ नम्बर का क्षेत्र का नाम है
7	यह निशान ७ नम्बर का क्षेत्र का नाम है	8	यह निशान ८ नम्बर का क्षेत्र का नाम है
9	यह निशान ९ नम्बर का क्षेत्र का नाम है	10	यह निशान १० नम्बर का क्षेत्र का नाम है

रिजिस्ट्रार प्रोसेस

Superintendent of Survey

Legend

PILLAR POINT
PROPOSED GHAT
VILLAGE WISE AREA



KHARID Pharia

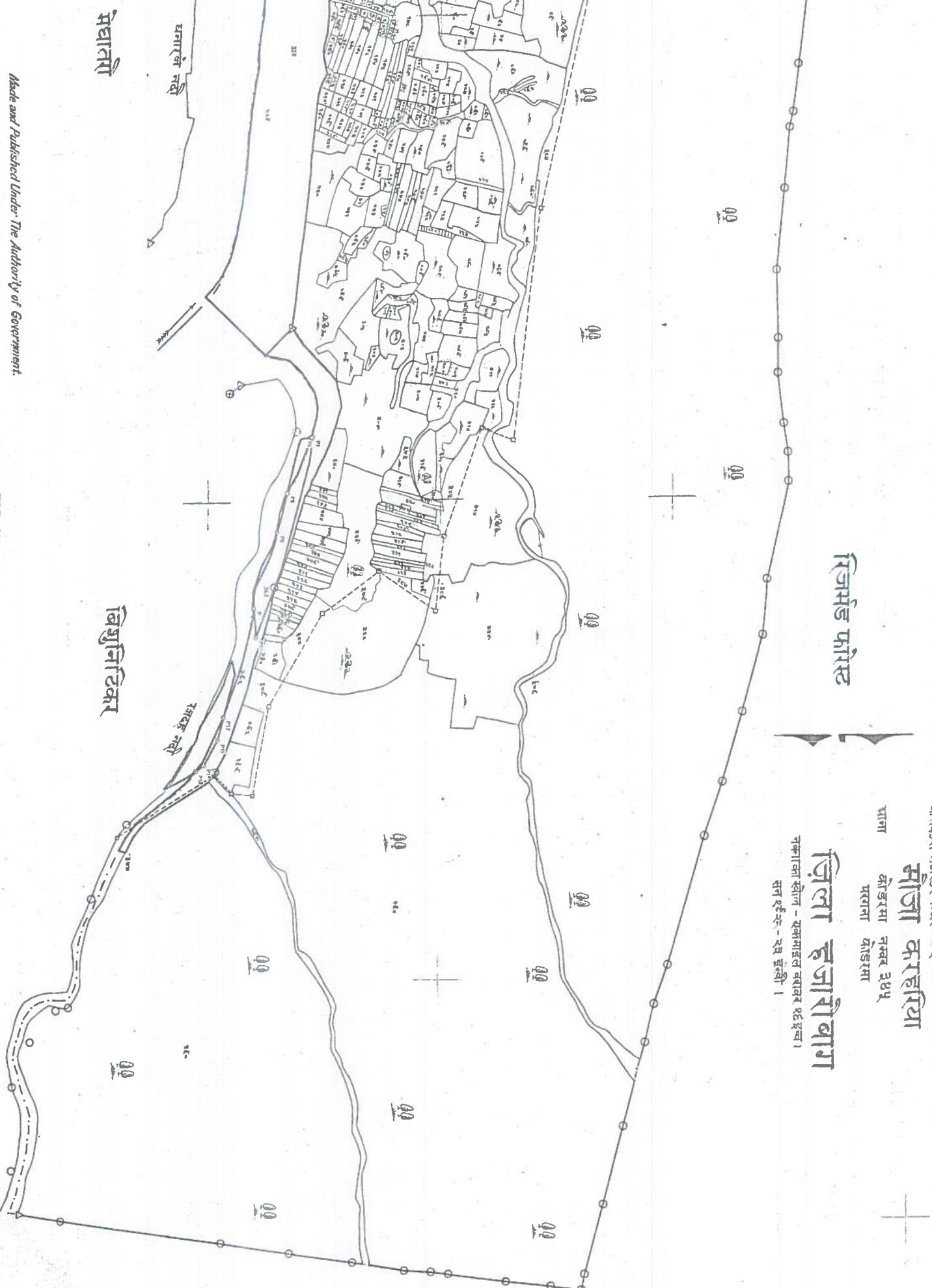
303

करहिया

मन्त्र २०३
प्राङ्मा

आजाबाना

— २३ चूंकी ।



नय्य
१३६
३२२

नाम दै मयाहू
अथाहू याम
वाहम देवप्यान

Made and Published Under The Authority of Government

नमुना अलाभत

BLOCK NAME	VILLAGE NAME	SHEET NO	PLOT NO	LAND TYPE	AREA In ACRES	REMARKS
KODERMA	KANHAJIA	345	1	229 RIVER	29.7056	
KODERMA	KANHAJIA	345	1	363 RIVER	6.5951	
				TOTAL AREA	36.6417	

Scale 16 inches = 1 Mile.

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE	NAME
P1	354590.8012	2715792.496	24°35' 7.329" N	85°34' 1.373" E	KANIHARI, 345.01
P2	354583.5641	2715880.146	15° 59.525' N	85°33.595' E	KANIHARI, 345.01
P3	354593.6263	2715960.728	9°59.525' N	85°34.131' E	KANIHARI, 345.01
P4	355004.0748	2715948.728	24°35.812" N	85°34.447" E	KANIHARI, 345.01
P5	354593.3152	2715785.558	24°35.716" N	85°34.468" E	KANIHARI, 345.01
P6	355011.0248	2715980.179	24°35.8742" N	85°34.465" E	KANIHARI, 345.01
P7	355010.5674	2715881.958	24°35.843" N	85°34.437" E	KANIHARI, 345.01
P8	355010.5291	2715885.717	24°35.843" N	85°34.437" E	KANIHARI, 345.01
P9	355165.6285	2715715.407	24°36.225" N	85°34.463" E	KANIHARI, 345.01
P10	355229.6243	2715925.846	24°35.4867" N	85°34.452" E	KANIHARI, 345.01
P11	355338.3613	2715705.344	24°35.4977" N	85°34.217" E	KANIHARI, 345.01
P12	355647.7552	2715644.347	24°35.345" N	85°34.580" E	KANIHARI, 345.01
P13	355655.7262	2715959.353	24°35.402" N	85°34.597" E	KANIHARI, 345.01
P14	355656.0585	2715948.056	24°35.1697" N	85°34.592" E	KANIHARI, 345.01
P15	355656.0185	2715863.583	24°35.2714" N	85°34.5846" E	KANIHARI, 345.01

१	यह निश्चय है कि साहित्य की रचना समाज के प्रति	असत्य
२	यह वास्तव में समाज के प्रति	सत्य
३	यह वास्तव में समाज के प्रति	असत्य
४	यह वास्तव में समाज के प्रति	असत्य
५	यह वास्तव में समाज के प्रति	असत्य
६	यह वास्तव में समाज के प्रति	असत्य
७	यह वास्तव में समाज के प्रति	असत्य
८	यह वास्तव में समाज के प्रति	असत्य
९	यह वास्तव में समाज के प्रति	असत्य
१०	यह वास्तव में समाज के प्रति	असत्य

$$\frac{R_0}{R_0} = \frac{R_0}{R_0}, \quad \frac{R_0}{R_0} = \frac{R_0}{R_0}, \quad \frac{R_0}{R_0} = \frac{R_0}{R_0}, \quad \frac{R_0}{R_0} = \frac{R_0}{R_0},$$

J. Moulton
Superintendent of Survey

Legend

PILLAR POINT

PROPOSED GHAT

VILLAGE WISE AREA



Plate G

(As per JSAC Cadastral Map of Sakri River)

Proposed Ghat of PO_KD_SG_SK_01, Block -Satgawan, District - Koderma, JHARKHAND



I 0501.0067680000

Bhaddali

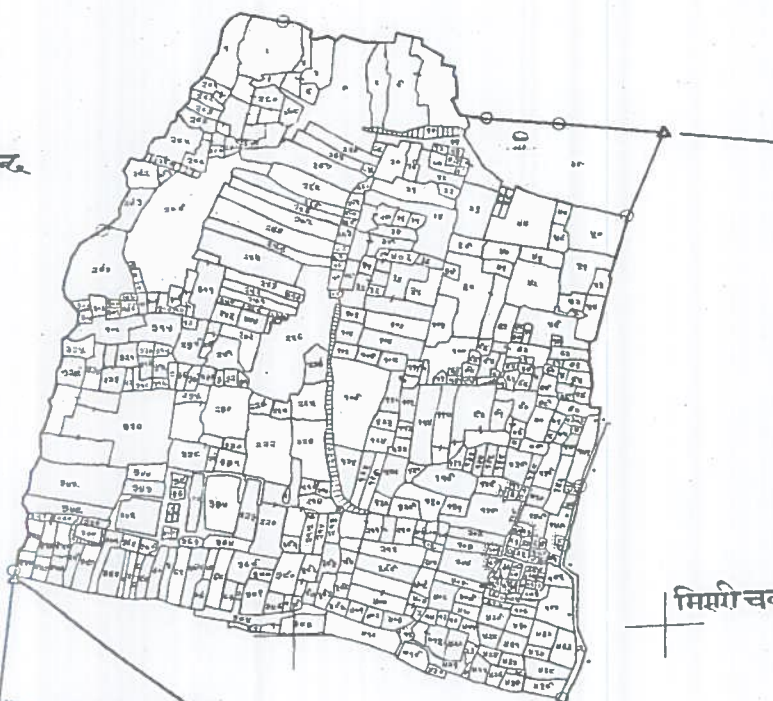
मशहूर नाम भदाली
थाना नम्बर २०
थाना घतगावां
परगना: खगडीहा
जिला हजारीबाग
थाना नम्बर की मोल १९ ईन्च
सन १८९९-१० ईस्वी

नमूना खलासत

1	घट निशान के लिये खारिज समझाया गया	+
2	मकान गै मरुन	+
3	पक्का कुवा	⊙
4	कच्चा कुवा	○

कानीकेन्द्र

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मिहरी चक

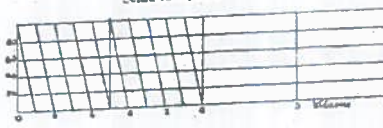
सकरी नदी

मदवा

सकरी नदी

घाट रोमा

Scale 10" = 1 Mile



213 305

Superintendent of Survey

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	372291.0313	2741466	24°46' 57.362" N	85°44' 12.135" E
P2	372377.1026	2741732.183	24°47' 6.040" N	85°44' 15.112" E
P3	372091.2239	2741892.244	24°47' 11.157" N	85°44' 4.880" E
P4	371839.1445	2741932.469	24°47' 12.389" N	85°43' 55.892" E
P5	371822.5313	2741805.75	24°47' 8.265" N	85°43' 55.342" E
P6	372115.2813	2741540.5	24°46' 59.731" N	85°44' 5.853" E

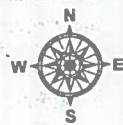
BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	AREA_In_ACRE	REMARKS
SATGAWAN	BHADALI	20	1	441	38.6553	
TOTAL AREA					38.6553	

Legend

- ⊙ PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Area in Ha of 01- 58.03

Proposed Ghat of PO_KD_SG_SK_01,02, Block -Satgawan, District - Koderma, JHARKHAND



Ghordour

मशहूर नाम घोड़दौर

थाना नम्बर १८

थाना मतगावां

परगना खगडीहा

ज़िला हजारीबाग

पैमाना/हिसाब की मील १६ इंच

सन १९९१-९२ ई.स्वी

II-05010067660000

समूचा आलामत	
१	यह निशान के लिये सर्वेक्षण समझा जायगा
२	समान में सहज
३	पक्षा कुचा
४	कक्षा कुचा

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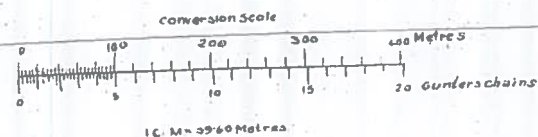
नाम
५७

नाम के मशहूर
कारण मन्त्रा

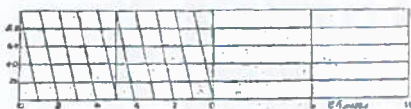
मिश्रिचक

डांटी

चौराहा



Scale 16" = 1 Mile



PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	372790.3023	2741192.198	24°46' 48.612" N	85°44' 30.001" E
P2	372606.966	2741445.198	24°46' 56.781" N	85°44' 23.390" E
P3	372531.0313	2741324	24°46' 52.819" N	85°44' 20.727" E
P4	372815.0718	2741531.078	24°46' 59.635" N	85°44' 30.772" E
P5	372824.8153	2741450.686	24°46' 57.025" N	85°44' 31.145" E
P6	372892.0541	2741340.321	24°46' 53.457" N	85°44' 33.575" E
P7	372962.0509	2741455.451	24°46' 57.220" N	85°44' 36.030" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRE	REMARKS
SATGAWAN	GHORDOUR	18	1	64	23.2568	
TOTAL AREA					23.2568	

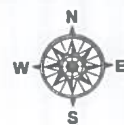
Proposed Area in Ha of 01- 58.03
Proposed Area in Ha of 02- 4.23

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Superintendent of Survey

Proposed Ghat of PO_KD_SG_SK_01, Block -Satgawan, District - Koderma, JHARKHAND



ग्रामस्थान नाम घाघेमा
 ग्रामा नम्बर २१
 ग्रामा मतगांवा
 ग्रामा मतगांवा
 जिला हजारीबाग
 ग्रामा मतगांवा
 सन १९९१-९२ ईस्वी

क्र.सं.	विवरण	प्रमाण
१	ग्रामा मतगांवा	१
२	ग्रामा मतगांवा	२
३	ग्रामा मतगांवा	३
४	ग्रामा मतगांवा	४

झांटी

पचौरी

भखवा

ढाव

कानीचन्द

सकरी नदी

भदवा

भदानी

मिसरीचक

नामधे सबाहुर
 देवस्थान

Scale 10" = 1 Mile



1" = 20 Feet

Superintendent of Survey

खौराकलां

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	AREA_in_ACRE	REMARKS
SATGAWAN	GHORSIMAR	21	1	1	54.427	
SATGAWAN	GHORSIMAR	21	1	96	23.6245	
SATGAWAN	GHORSIMAR	21	1	99	24.3031	
TOTAL AREA					102.3546	

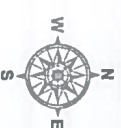
Proposed Area in Ha of 01- 58.03

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	372690.5331	2740984.777	24°46' 41.840" N	85°44' 26.517" E
P2	372847.1709	2741115.141	24°46' 46.124" N	85°44' 32.051" E
P3	372790.3023	2741192.198	24°46' 48.612" N	85°44' 30.001" E
P4	372115.2813	2741540.5	24°46' 59.731" N	85°44' 5.853" E
P5	371807.0467	2741687.868	24°47' 4.428" N	85°43' 54.830" E

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_KD_SG_SK_01, Block -Satgawan, District - Koderma, JHARKHAND



Konikend
मण्डल नाम क्रानिकेन्द जादरनामर २
ग्रामा नमर १
ग्रामा सतरावात
पराम मरगचेहा
जिला हजारीबागा
जिला गया
मंडल नाम की सेल ४६ ई.सी.
सं. १८९२ ई.सी.

नामा नमर
४६२
६३२
७४३
७८३

नामा नमर
मंडल नाम
मंडल नाम
मंडल नाम

Index to Sheets

Scale 1:1 Mile



मंडली

सं.	मंडल नाम	मंडल नाम
१	मंडल नाम	मंडल नाम
२	मंडल नाम	मंडल नाम
३	मंडल नाम	मंडल नाम
४	मंडल नाम	मंडल नाम

शिवरामपुर

मंडली

चौगोमा

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२००० २००० २०००

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

For Superintendent of Survey



Proposed Area in Ha of 01-58.03

मध्याह्न न/म गडवा
शानानभार २७

ज्ञाना समागतां

पर्याप्तः समाहितः

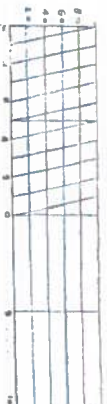
जिंथा नज्जिबग

संन १८१८-१९ ई. की
संन १८१८-१९ ई. की

१	सर्वज्ञान + विचारसमभोग्यता	०००
२	सर्वज्ञान	०००
३	सर्वज्ञान	०००
४	सर्वज्ञान	०००

नमो आनी

Scale 18: 1 Mile



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BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA In ACRE	REMARKS
SATGAWAN	MADWA	27	1	1	26.9831	
			TOTAL AREA		26.9831	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	371822.5313	2741805.75	24°47' 8.265" N	85°43' 55.342" E
P	371807.0467	2741687.868	24°47' 9.822" N	85°43' 54.850" E
P3	371354.54	2741858	24°47' 4.428" N	85°43' 38.669" E
P4	371318.923	2741704.952	24°47' 4.836" N	85°43' 37.445" E

Proposed Area in Ha of 01-58.03

बानोबान

सुवर्ण नदी

॥ श्री गणेशाय नमः ॥

3727c91

श्रीवाराह

संक्षिप्त

अथवा

Conversion scale

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1 C.M. = 39.60 Metres

$$\frac{a_2}{a_1} = \frac{a_1}{a_2} = \frac{a_3}{a_4} = \frac{a_4}{a_3}$$

Superintendent of Survey

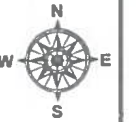
Legend

25

AT

VILLAGE WISE AREA

Proposed Ghat of PO_KD_SG_SK_01, Block -Satgawan, District - Koderma, JHARKHAND



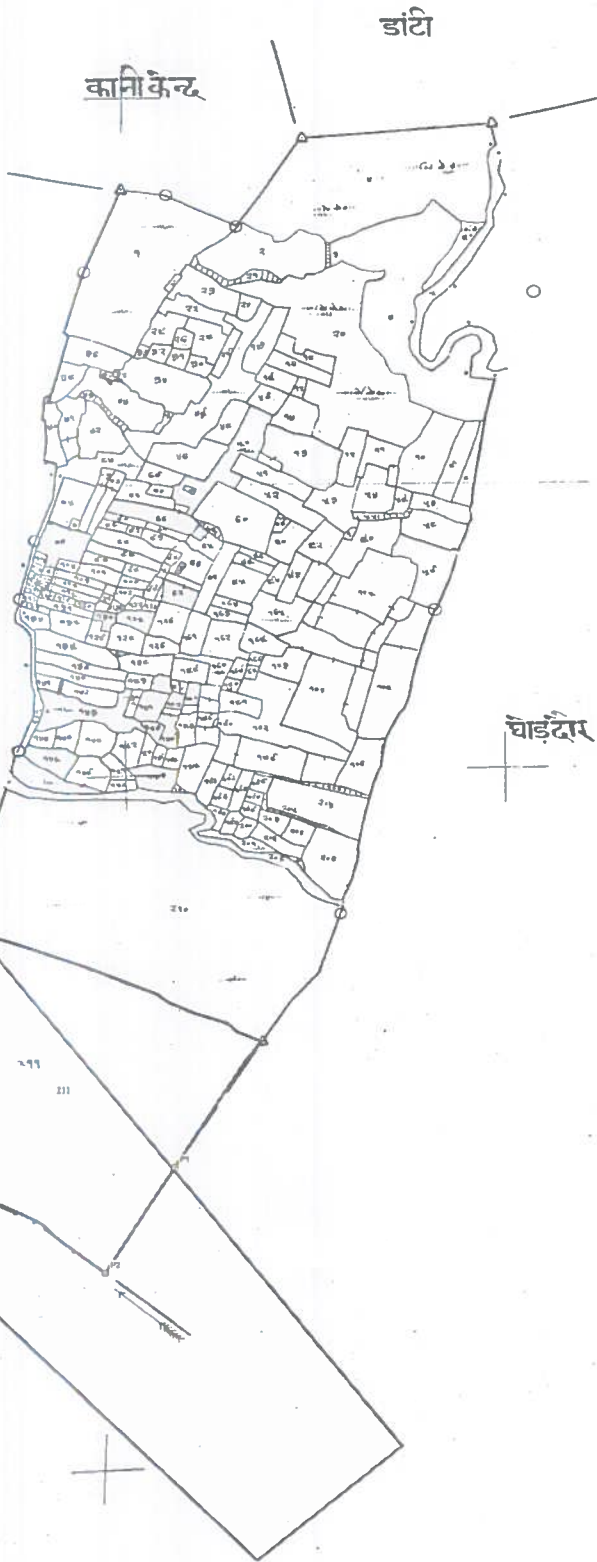
Misrichak

मशहूर नाम मिस्रीचक,
थाना नम्बर १९
थाना सतगावा
परगना खगडीहा
जिला हजारीबाग
पैमानाद्विषाव की मील १६ इंच
सन १८९९-१९ ईस्वी

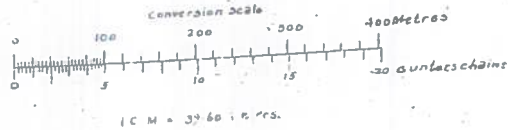
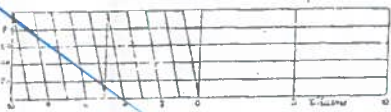
नमूना आलामत

१	यह निशान ५ लेन राशि जसम भाषायाग	२१
२	मसगान मे सदन	२२
३	पडा कुवा	२३
४	क.डा कुवा	२४

Made and Published Under The Authority of Government



Scale 1:6 = 1 Mile



Superintendent of Survey.



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA In ACRE	REMARKS
SATGAWAN	MISRI CHAK	19	1	211	22.8679	
TOTAL AREA					22.8679	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	372606.966	2741445.198	24°46' 56.781" N	85°44' 23.390" E
P2	372531.0313	2741324	24°46' 52.819" N	85°44' 20.727" E
P3	372291.0313	2741466	24°46' 57.362" N	85°44' 12.135" E
P4	372377.1026	2741732.183	24°47' 6.040" N	85°44' 15.112" E

Proposed Area in Ha of 01- 58.03

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

1. $\int_0^1 x^2 dx = \frac{1}{3}$

संयोजी नाहा



1 C. M = 3960 metres

Legend

PILLAR POINT

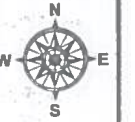
PROPOSED GHAT

VILLAGE WISE AREA

Asa Kuntz
For Superintendent of Survey.



Proposed Ghat of PO_KD_SG_SK_01,02, Block -Satgawan, District - Koderma, JHARKHAND



Ghordour
 मशहूर नाम घोड़दौर
 थाना नम्बर १८
 थाना मुख्यावास
 परगना खगडिहा
 जिला हजारीबाग
 पैमाना/दिशा/मील १५ ईन्च
 सन १९५५-५६ ईस्वी

II 05010067660000

नमूना चलायत	
१	यह निशान के लिये सार्वजनिक सम्पत्ति का प्रमाण है
२	मकान के सहित
३	पक्का कुचा
४	गड्ढा कुचा

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नम्बर ४७ नाम की मशहूर
 कारी मन्ना

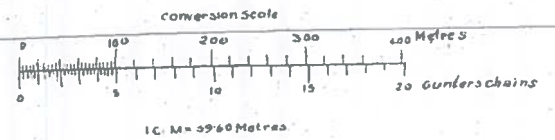
मिश्रिचक

डांटा

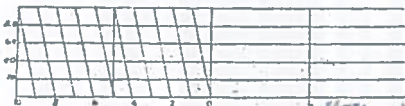
संकरि नदी

चौराम

संकरि नदी



Scale 16" = 1 Mile



PILLAR NO.	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	372790.3023	2741192.198	24°46' 48.612" N	85°44' 30.001" E
P2	372606.966	2741445.198	24°46' 56.781" N	85°44' 23.390" E
P3	372531.0313	2741324	24°46' 52.819" N	85°44' 20.727" E
P4	372815.0718	2741531.078	24°46' 59.635" N	85°44' 30.772" E
P5	372824.8153	2741450.686	24°46' 57.025" N	85°44' 31.145" E
P6	372892.0541	2741340.321	24°46' 53.457" N	85°44' 33.575" E
P7	372962.0509	2741455.451	24°46' 57.220" N	85°44' 36.030" E

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	AREA_in_ACRE	REMARKS
SATGAWAN	GHORDOUR	18	1	64	23.2568	
TOTAL AREA					23.2568	

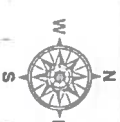
Proposed Area in Ha of 01- 58.03
 Proposed Area in Ha of 02- 4.23

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

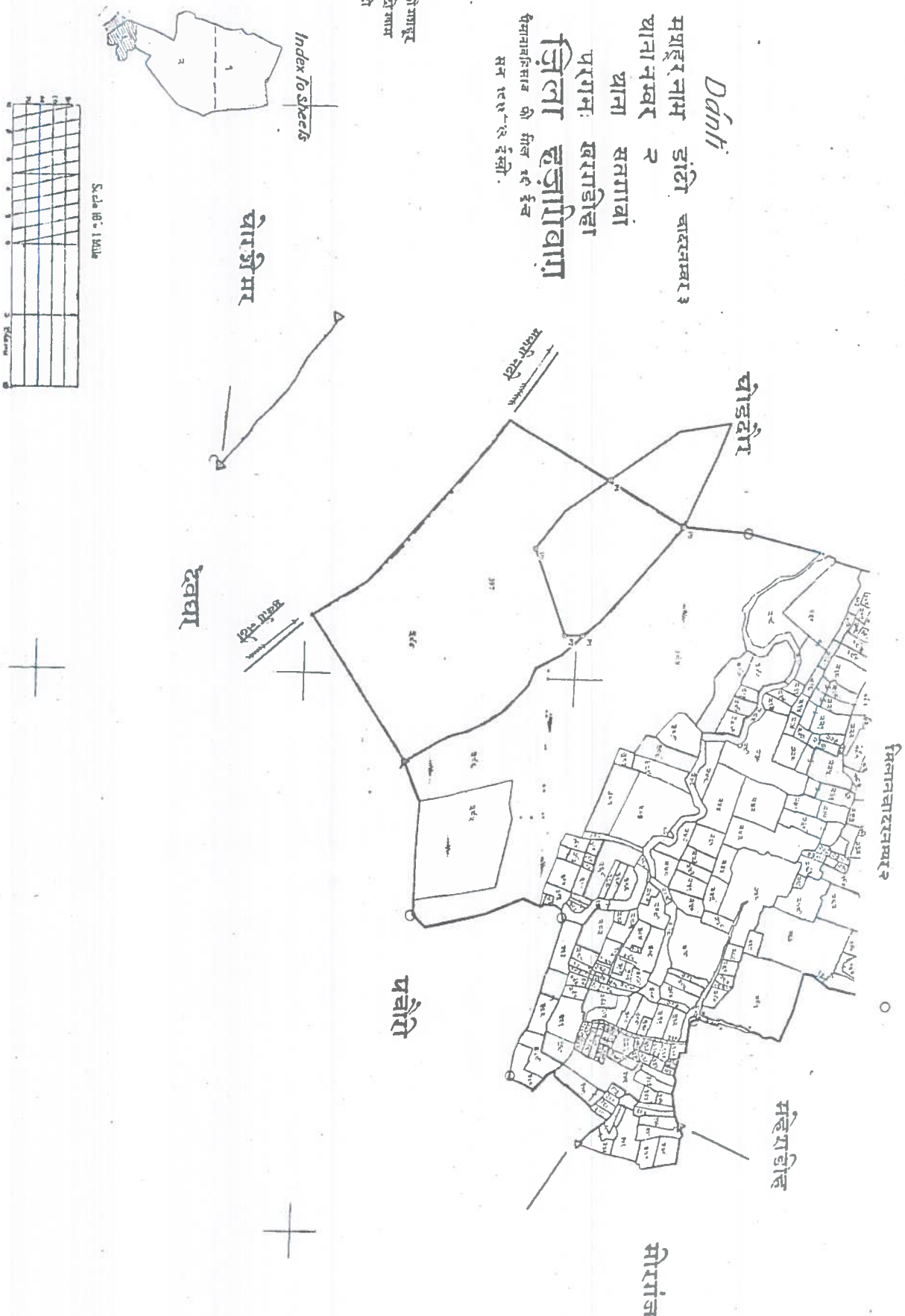
Superintendent of Survey

Proposed Ghat of PO_KD_SG_SK_02, Block -Satgawan, District - Koderma, JHARKHAND



Dáhi
मण्डल नाम डीही चारनखर ३
थाना नंखर २
थाना सतगावा
परगना खराडीहा
ज़िला हजारीबाग
पैमाना: १:५०,०००
सन् १९९९ ई.स.

नाम
२०५
३६२
नाम नंखर
चरनखर
सतगावा



नक्शा प्रस्तावित

१	चरनखर ३	२	चरनखर ३
३	चरनखर ३	४	चरनखर ३
५	चरनखर ३	६	चरनखर ३

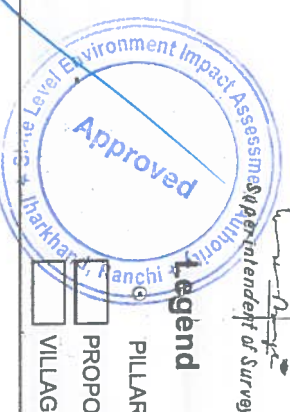
PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	373115.1094	2741294.395	24°46'52.031" N	85°44'41.532" E
P2	373114.4498	2741266.144	24°46'51.113" N	85°44'41.518" E
P3	372987.5935	2741221.019	24°46'49.608" N	85°44'37.016" E
P4	372892.0541	2741340.321	24°46'53.457" N	85°44'33.575" E
P5	372962.0509	2741455.451	24°46'57.220" N	85°44'36.030" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA In ACRES	REMARKS
SATGAWAN	DANTI	2	1	397	34.4219	
TOTAL AREA					34.4219	

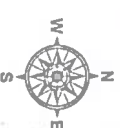
Proposed Area in Ha of 02-4.22

Made & Published Under The Authority of Government.

सतगावा



Legend
PILLAR POINT
PROPOSED GHAT
VILLAGE WISE AREA



Bajania
मण्डल नाम बजनिया चारनमर ३
ग्रामा नमर ४
ग्रामा सतगावा
परगना खराडीहा
जिला कुजुर्गिवा
क्षेत्रावधिवा के मोम १८ ईस
सन १८८२ ईस

१	यह निशान के लिये निर्धारित है	१
२	सतगावा के नमर	२
३	यह निशान के लिये निर्धारित है	३
४	यह निशान के लिये निर्धारित है	४

Index to sheets

Scale 1:1000

सिंह पहाड़ सिव

सिंहसा

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRES	REMARKS
SATGAWAN	BAJANIA	4	1	1278	25.6957	
TOTAL AREA					25.6957	

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	375152.7872	2739121.56	24°45'42.006" N	85°45'54.781" E
P2	375143.0856	2739101.972	24°45'41.366" N	85°45'54.441" E
P3	374825.6033	2739186.875	24°45'44.093" N	85°45'43.117" E
P4	374917.6166	2739363.893	24°45'49.814" N	85°45'46.331" E

Proposed Area in Ha of 03- 47.98

Made and Published Under The Authority of Government.

Branch Kumar Roy
Superintendent of Survey



Legend

- ☒ PILLAR POINT
- ☐ PROPOSED GHAT
- ☐ VILLAGE WISE AREA

मशहूर नाम
श्री पहाड़ सिंह
चांद नगर

शान्त नम्र ३३

शाना सत्तात्वा

परगानः रागाडाहा

जिंदा हजारों बारां

सैन १८९८-९७ ई.सि।

१	यहनिद्यान + नैतिया + कसमभक्तोवाया	१००	☐
२	सकादम सदन		☐
३	धक्षा कुंवा		☒
४	कसा कुंवा		☐

नमो भगवते वासुदेवाय

Index to Sheets

महाराज

308.

नामज्ञो भद्राक्षर
यदाक्रियमाण
मुदाशोयाद्दिद्वेयमाण

सुधायोगादा देवरायल

सुधायोगादा देवरायल

Seção 16 - 1 Mila



गणेश देव

विज्ञान

ब्रजनिघा

Made and Published Under The Authority of Government.

Superintendent of Survey

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	AREA_In_ACRE	REMARKS
SATGAWAN	KHAIRA PAHAR SINGH	33	1	1	31.5941	

TOTAL AREA	31.5941
------------	---------

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	374727.4067	2739001.444	24°45' 37.976" N	85°45' 39.676" E
P2	374825.6033	2739186.875	24°45' 44.033" N	85°45' 43.112" E
P3	374558.4668	2739376	24°45' 50.101" N	85°45' 33.541" E
P4	374350.0746	2739094.094	24°45' 40.877" N	85°45' 26.214" E

Proposed Area in Ha of 03-47.98

मिजान साद नमः २

Legend

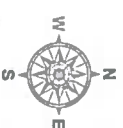
PILLAR POINT

PROPOSED GHAT

VILLAGE WISE AREA

Proposed Ghat of PO_KD_SG_SK_03, Block-Satgawan, District - Koderna, JHARKHAND

Madanand Published Under The Authority of Government



Maitihakhairā
मशहरनाम मायाखैरा
धाना नम्वर ३२ चारनाम ३
धाना सतगाँवा
परगना: राणडीहा
जिला रुजियाबागा
समानावसिमा के क्षेत्र १६ ईस
सन १९९९-१३ ईस

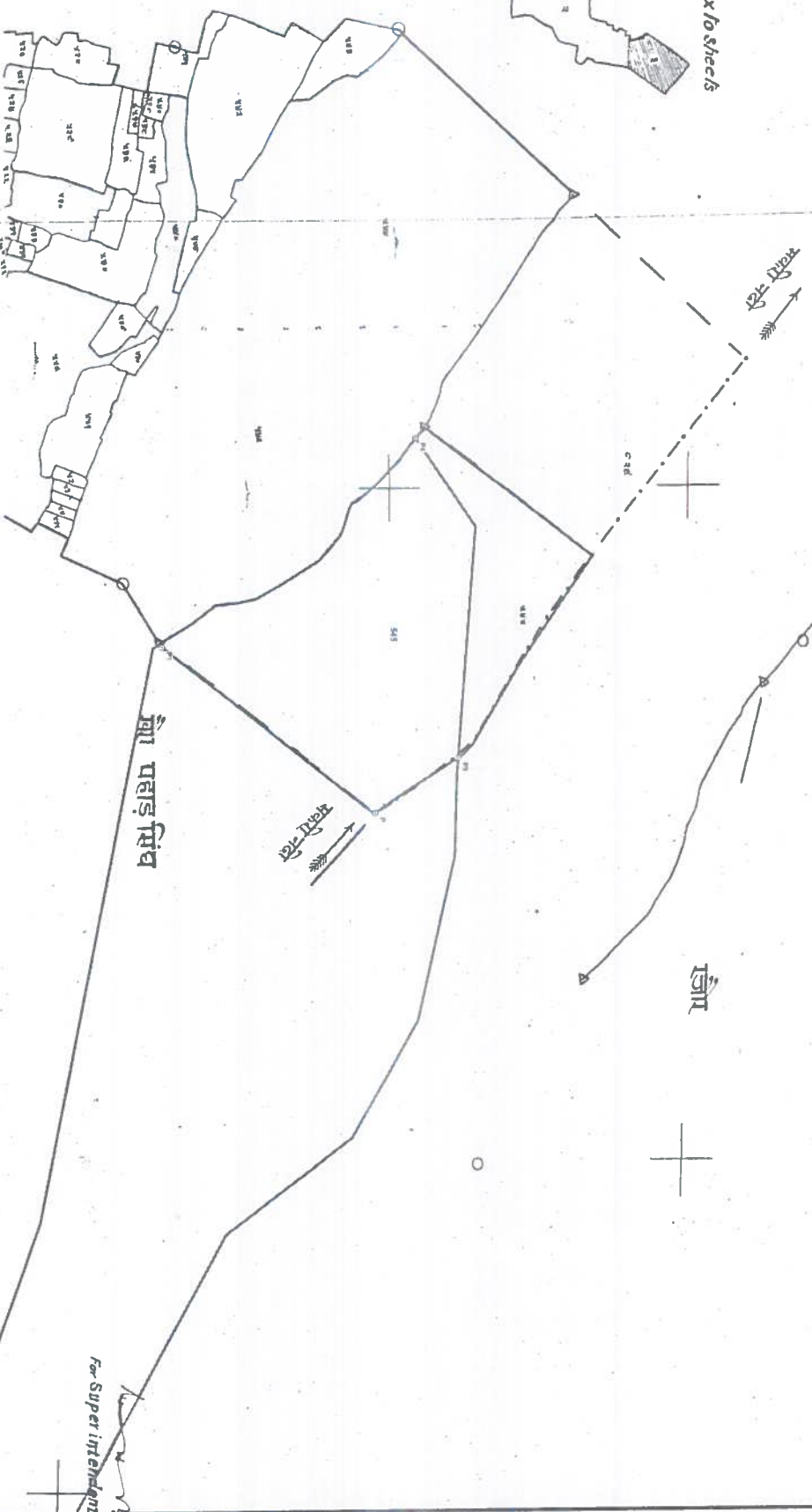
१	यह निशान है निशानों के समूह का नाम	२	३
१	महानदी का निशान	४	५
२	पहाड़ का निशान	६	७
३	काला कुँवा	८	९



Scale 1:50,000

Index to Sheet

सो नाला



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE		
P1	374350.0746	2739094.094	24°45'40.877" N	85°45'26.214" E		
P	374558.4688	2739376	24°45'50.101" N	85°45'33.541" E		
P3	374492.9079	2739486.872	24°45'53.686" N	85°45'31.172" E		
P4	374102.5293	2739434.293	24°45'51.862" N	85°45'17.291" E		
BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	AREA_In_ACRE	REMARKS
SATGAWAN	MATTA KHURA	32	545	32,291		
TOTAL AREA						

Proposed Area in Ha of 03-47.98



Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_KD_SG_SK_03,04, Block -Satgawan, District - Koderma, JHARKHAND

Sarbahana
समग्र नाम गावहना
धाना नम्वर धाना
पराम: मण्ड्रीहा
जिला हजारीबाग
क्षेत्राधिकार की मिति १६ दिनांक
सन १९९९-९९ ई.सी.

नमूना आनामस

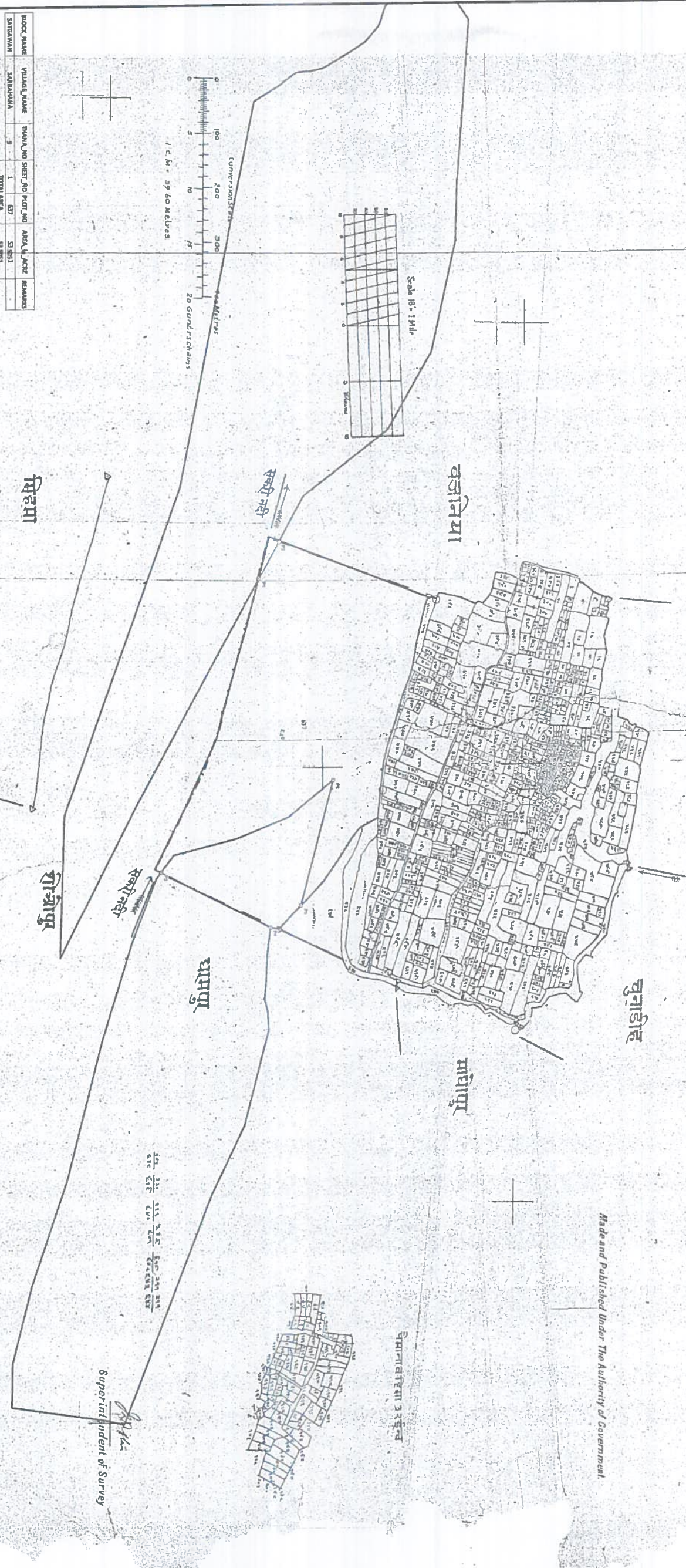
१	प्रतिनिधित्व क्षेत्राधिकारमण्डली	म-१
२	मण्डली नम्वर	१
३	पट्टा नम्वर	१
४	कला नम्वर	०

नाम: नाम में मण्डली
१९८८ अकादमिक
१९८९ वर्ष में मण्डली क्षेत्राधिकार
१९८९ मण्डली क्षेत्र

Made and Published Under The Authority of Government.

निर्माणारम्भ ३२ ई.स

Superintendent of Survey



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRES	REMARKS
SATGAWAN	SATGAWAN	1	637	53	32.1	
TOTAL AREA					53.321	

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	375219.1881	273981.308	24°45'40.717" N	85°45'57.157" E
P2	375152.7872	273912.156	24°45'42.006" N	85°45'54.781" E
P3	375750.2368	273888.326	24°45'34.372" N	85°46'16.126" E
P4	375855.8125	273908.5	24°45'41.462" N	85°46'19.815" E
P5	375816.4007	273915.529	24°45'43.434" N	85°46'18.392" E
P6	375588.9716	273922.131	24°45'45.533" N	85°46'10.275" E

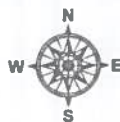
Proposed Area in Ha of 03-47.98
Proposed Area in Ha of 04-31.58



Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

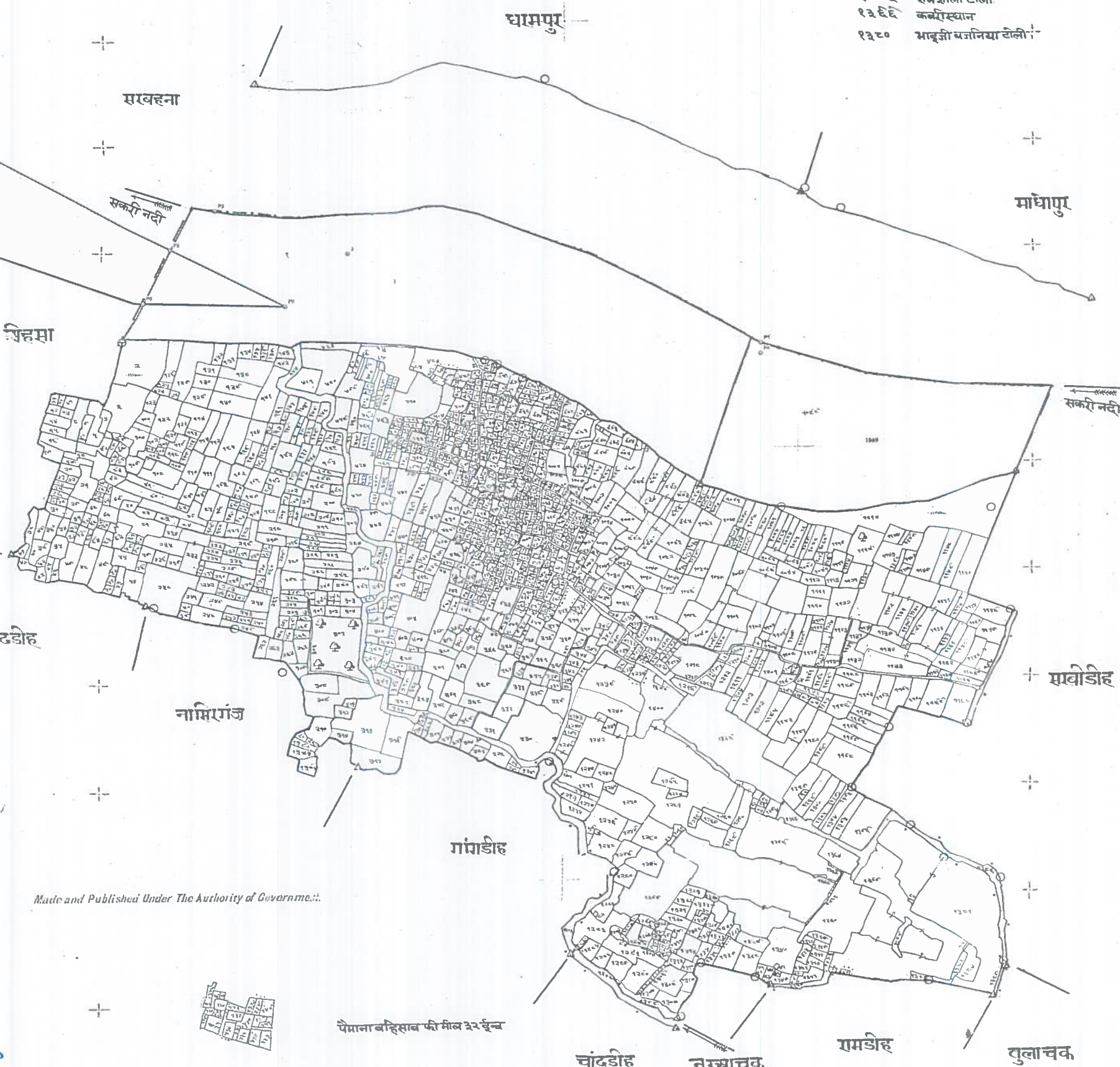
Proposed Ghat of PO_KD_SG_SK_03, Block -Satgawan, District - Koderma, JHARKHAND



Sheopur
मशहर नाम शेओपुर
थाना नम्बर ३७
थाना मतगावा
परगना: गंगाडीहा
जिला हजारीबाग
पैमाना बहिषाब फी मील १९ इंच
सन १८९९-१९०२ ईस्वी

नमूना आलामत	
१	चरनिशान + लेन हा विजय मभाजायगा
२	मकान में मसूना
३	पक्ष कुंवा
४	कसा कुंवा

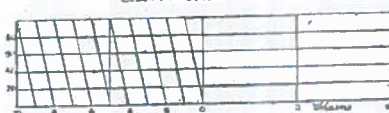
नम्बर	नाम श्री मशहर
३८३	बुम्ह स्थान
४४८	मसूजोद
५३४	
८७३	भगवती स्थान
१२०८	अवाटी खास
४८७	रामशाला टोली
१२८६	कबरी स्थान
१३८०	भादूजी बजनिचा टोली



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पैमाना बहिषाब फी मील ३२ इंच

Scale 1/4" = 1 Mile



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRE	REMARKS
SATGAWAN	SHEOPUR	37	1	1	65.4486	
SATGAWAN	SHEOPUR	37	1	1069	32.1572	
TOTAL AREA					97.6058	

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	376723.5	2738593.5	24°45' 25.299" N	85°46' 50.864" E
P2	375784.453	2738861.821	24°45' 33.748" N	85°46' 17.350" E
P3	376012.0179	2738776.141	24°45' 31.029" N	85°46' 25.478" E
P4	376723.0288	2738574.157	24°45' 24.670" N	85°46' 50.853" E
P5	375706.2216	2738789.628	24°45' 31.378" N	85°46' 14.588" E
P6	375658.917	2738689.18	24°45' 28.099" N	85°46' 12.937" E
P7	375903.5567	2738679.025	24°45' 27.841" N	85°46' 21.648" E

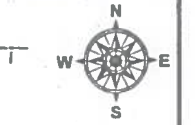
Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Area in Ha of 03- 47.98

Superintendent of Survey.

Proposed Ghat of PO_KD_SG_SK_03, Block -Satgawan, District - Koderma, JHARKHAND



Sihsa

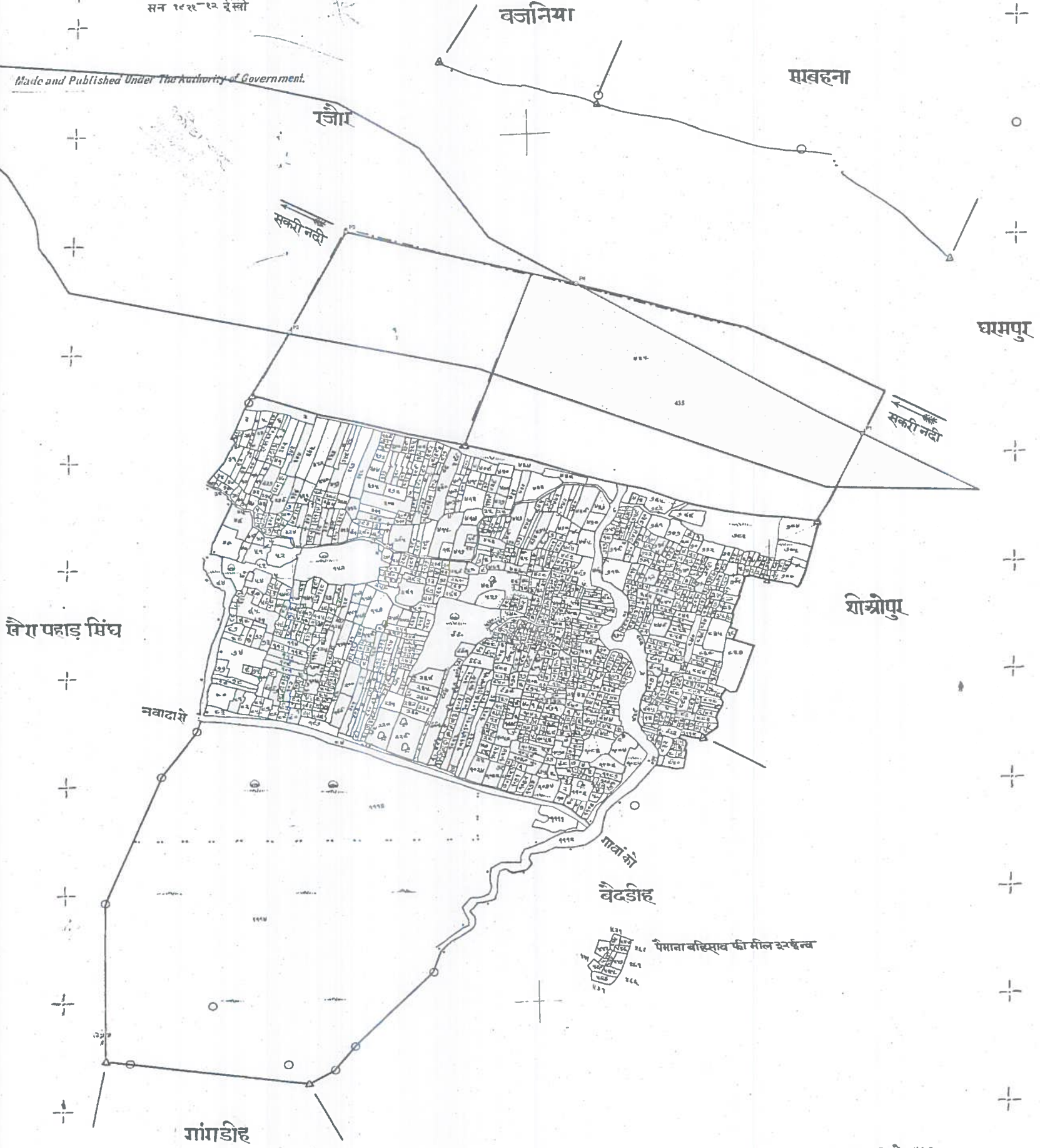
मशहूर नाम सिंहसा
थाना नम्बर १०
थाना शतावां
परगना खगडीहा
ज़िला हजारीबाग
पैमाना बहिमाव की सील १९ ई.स.
सन १९९९-२० ई.स.

नमूना चला मत

१	यदि निशान फूट लैन सारिज समभावायगा	+
२	मकान में गहन	+
३	पक्षा कुवा	○
४	कक्षा कुवा	○

नम्बर १५८
५२८
नाम यह मशहूर
दबो स्थान
(अबादी खाम
डाकरवाना)

Map and Published Under The Authority of Government.



1:1 1:1 1:1 1:1 1:1

Superintendent of Survey

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	375705.2316	2738789.628	24°45' 31.378" N	85°46' 14.588" E
P2	374717.4067	2739001.444	24°45' 37.976" N	85°45' 39.676" E
P3	374825.6033	2739186.875	24°45' 44.033" N	85°45' 43.112" E
P4	375219.1881	2739081.308	24°45' 40.717" N	85°45' 57.157" E

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	AREA_In_ACRE	REMARKS
SATGAWAN	SIHSA	10	1	1	29.6001	
SATGAWAN	SIHSA	10	1	435	51.4701	
TOTAL AREA					81.0702	

Proposed Area in Ha of 03- 47.98

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_KD_SG_SK_03, Block -Satgawan, District - Koderma, JHARKHAND

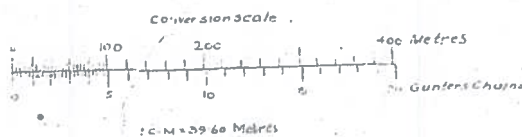
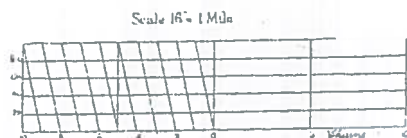
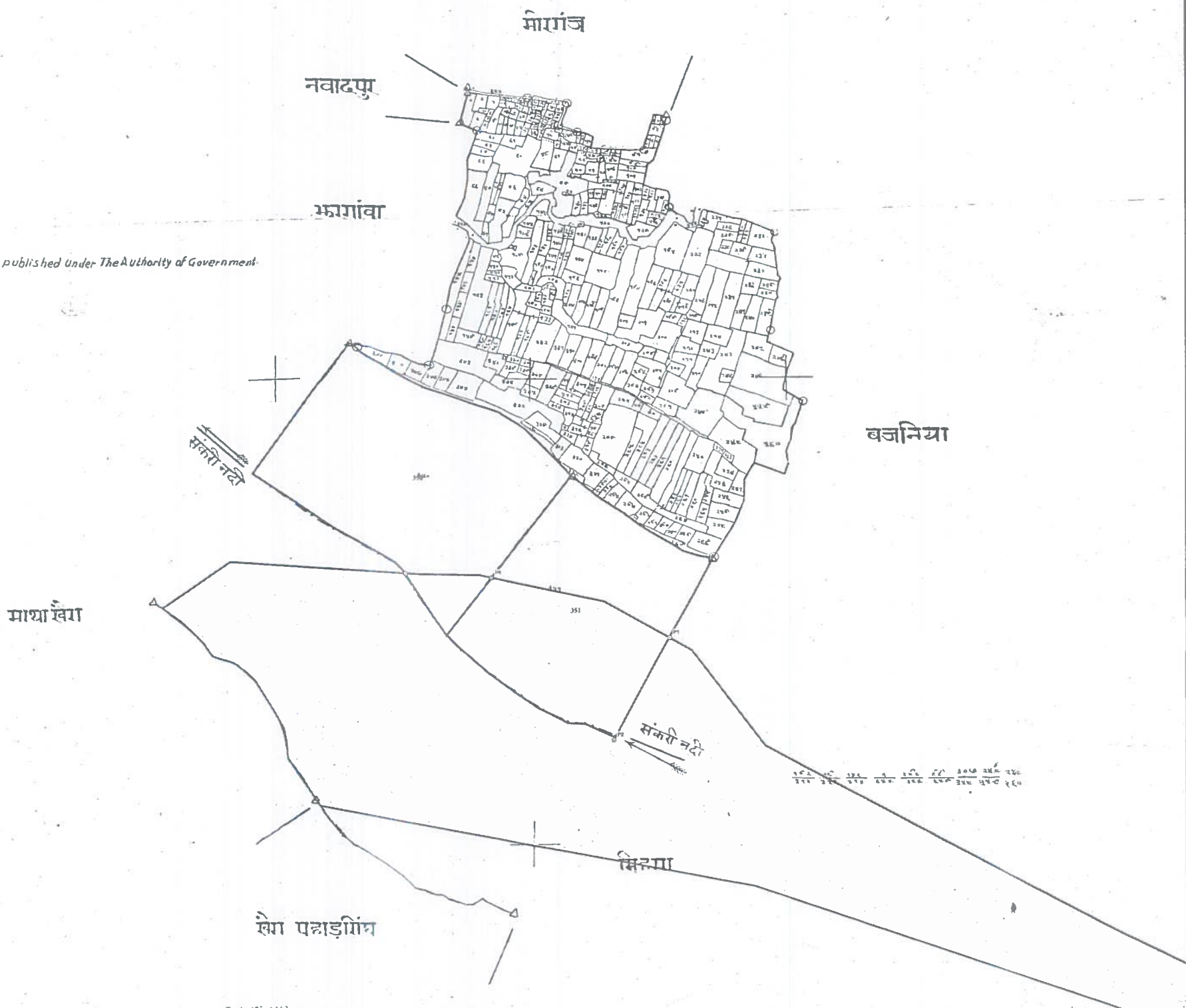


Rajour
मशहूरनाम राजौर
थाना नम्बर ११
थाना शतगावां
परगना: सगडाहा
जिला हजारीबाग
विभाजन दिनांक: श्री. मोन १९ ई.च.
सन १८९९-१० ई.सो

नमूना कलायम

१	यदिनिशान के लिये तयार कर सभ्यता आयाग	३३
२	भकान मे सदन	३३
३	पका कुचा	३३
४	कसा कुचा	३३

Made and Published Under The Authority of Government.



Superintendent of Survey

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	374917.6166	2739363.893	24°45' 49.814" N	85°45' 46.331" E
P2	374825.6033	2739186.875	24°45' 44.033" N	85°45' 43.112" E
P3	374492.9079	2739486.872	24°45' 53.686" N	85°45' 31.172" E
P4	374631.3775	2739476.09	24°45' 53.376" N	85°45' 36.105" E

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	AREA_in_ACRE	REMARKS
SATGAWAN	RAJOUR	11	1	350	31.9395	
SATGAWAN	RAJOUR	11	1	351	26.0676	
TOTAL AREA					58.0071	

Proposed Area in Ha of 03- 47.98

Legend

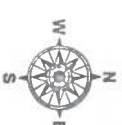
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_KD_SG_SK_03,04, Block -Satgawan, District - Koderma, JHARKHAND

Sarbahani
मशहूर नाम गावहन
धानानवर
धाना प्रयागावा
परमन मण्ड्रीहा
जिला हजारीबागा
क्षेत्रांतर्गत क्षेत्र क्षेत्र १६ ईन
सन १८९८ ई.सी

१	परमनमानचित्र क्षेत्रांतर्गत मण्ड्रीहा	१८९८
२	क्षेत्रांतर्गत क्षेत्र	१८९८
३	परमन मानचित्र	१८९८
४	परमन मानचित्र	१८९८

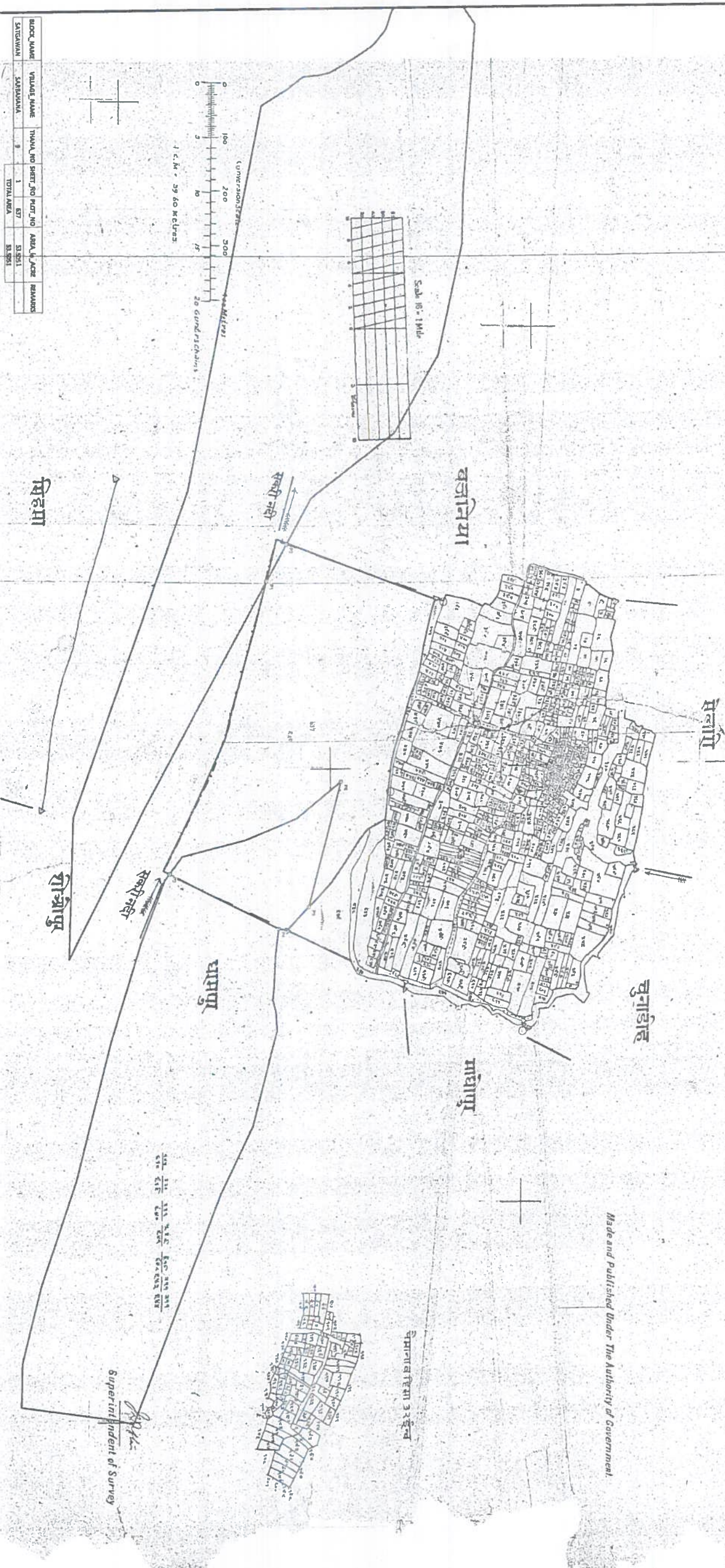
नाम
१९८
१९८
१८९
नाम मण्ड्रीहा
अवधारणा
अवधारणा
अवधारणा



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मानाव हिमा ३२ ईन

Superintendent of Survey



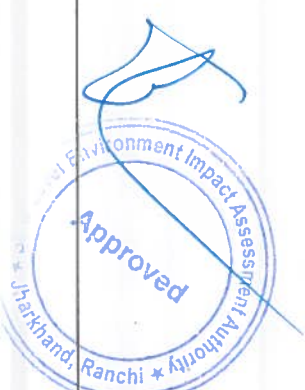
BLOCK NAME	VILLAGE NAME	TRAP NO	SHEET NO	PILOT NO	AREA AC	REMARKS
SATGAWAN	SATGAWAN	9	1	87	53.551	
TOTAL AREA					53.551	

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	375219.1881	2739081.308	24°45'40.717" N	85°45'57.157" E
P2	375152.7872	2739121.56	24°45'42.006" N	85°45'54.781" E
P3	375750.2368	2738881.326	24°45'34.372" N	85°46'16.126" E
P4	375855.8125	2739098.5	24°45'41.462" N	85°46'19.815" E
P5	375816.4007	2739159.529	24°45'43.434" N	85°46'18.392" E
P6	375588.9716	2739226.131	24°45'45.533" N	85°46'10.275" E

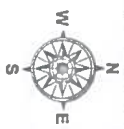
Proposed Area in Ha of 03-47.98
Proposed Area in Ha of 04-31.58

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA



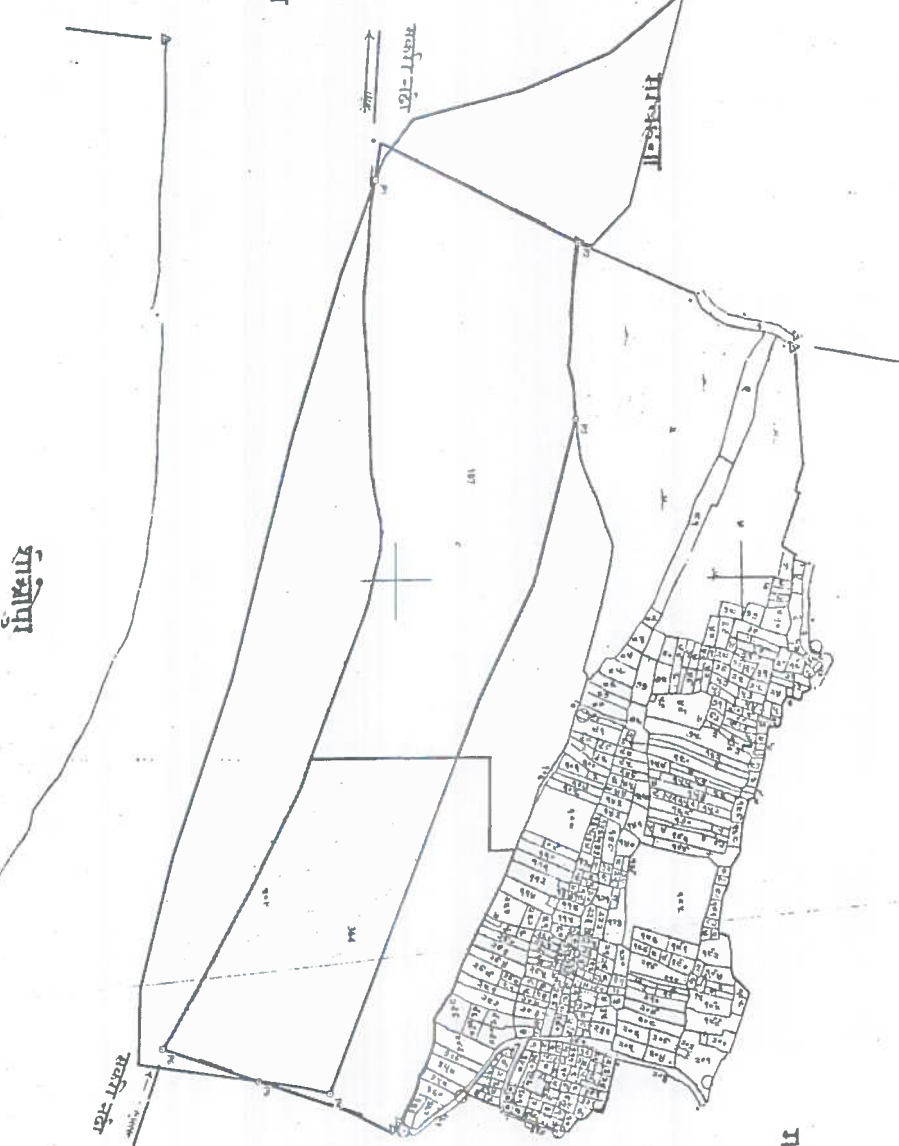
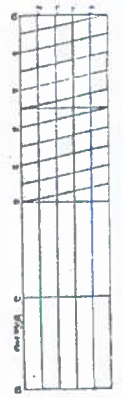
Proposed Ghat of PO_KD_SG_SK_04, Block -Satgawan, District - Koderma, JHARKHAND



Dharampur
मधहरनाम धामपुर
स्थाना नम्बर ३८
ग्रामा सरगाणा
परगना: मागडिहा
जिला कडियावाग
धरमपुराहाबाद को मील १२ ई-च
सन १८९९-१० ई-सी

१	परमिशन नं. जिला कारिज समझाओवसा	१००
२	माला नं. महेन	५००
३	पुस्तक नं. ५००	५००
४	र. ३०० पुस्तक	५००

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PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	375784.453	273861.821	24°45' 33.748" N	85°46' 17.350" E
P2	375855.8125	2739098.5	24°45' 41.462" N	85°46' 19.815" E
P3	376042.0153	2739093.464	24°45' 41.352" N	85°46' 26.445" E
P4	376758.0886	2738798.021	24°45' 31.957" N	85°46' 52.030" E
P5	376743.4912	2738714.315	24°45' 29.232" N	85°46' 51.537" E
P6	376707.125	2738602.5	24°45' 25.587" N	85°46' 50.278" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRE	REMARKS
SATGAWAN	DHARAMPUR	38	1	107	40.0319	
SATGAWAN	DHARAMPUR	38	1	364	24.5346	
TOTAL AREA					64.5665	

Proposed Area in Ha of 04-31.58

Environment Impact Assessment Authority
Approved
Legend
PILLAR POINT
PROPOSED GHAT
VILLAGE WISE AREA

Proposed Chat of PO_KD_SG_SK_04, Block-Satgawan, District - Koderma, JHARKHAND

क्रि.सं.

एवावाक



सुनाईत

नारायण

नव दी

विमानावहिसाव की योग्यता ३२ ई.स.

माया

4

सिन्धु

میں نے اس طرح کی باتیں

Superintendent of Survey.

Legend

◎ PILLAR POINT

PROPOSED GHAT

VILLAGE WISE AREA

Proposed Area in Ha of 04-31.58



Legend

Proposed Ghat of PO_KD_SG_SK_05, Block -Satgawan, District - Koderma, JHARKHAND

Marchoi

मसहर नाम मार्चोइ चार नाम २
शाना नमर ४२

ग्रामा सरगावा
परगना: खण्डिहा

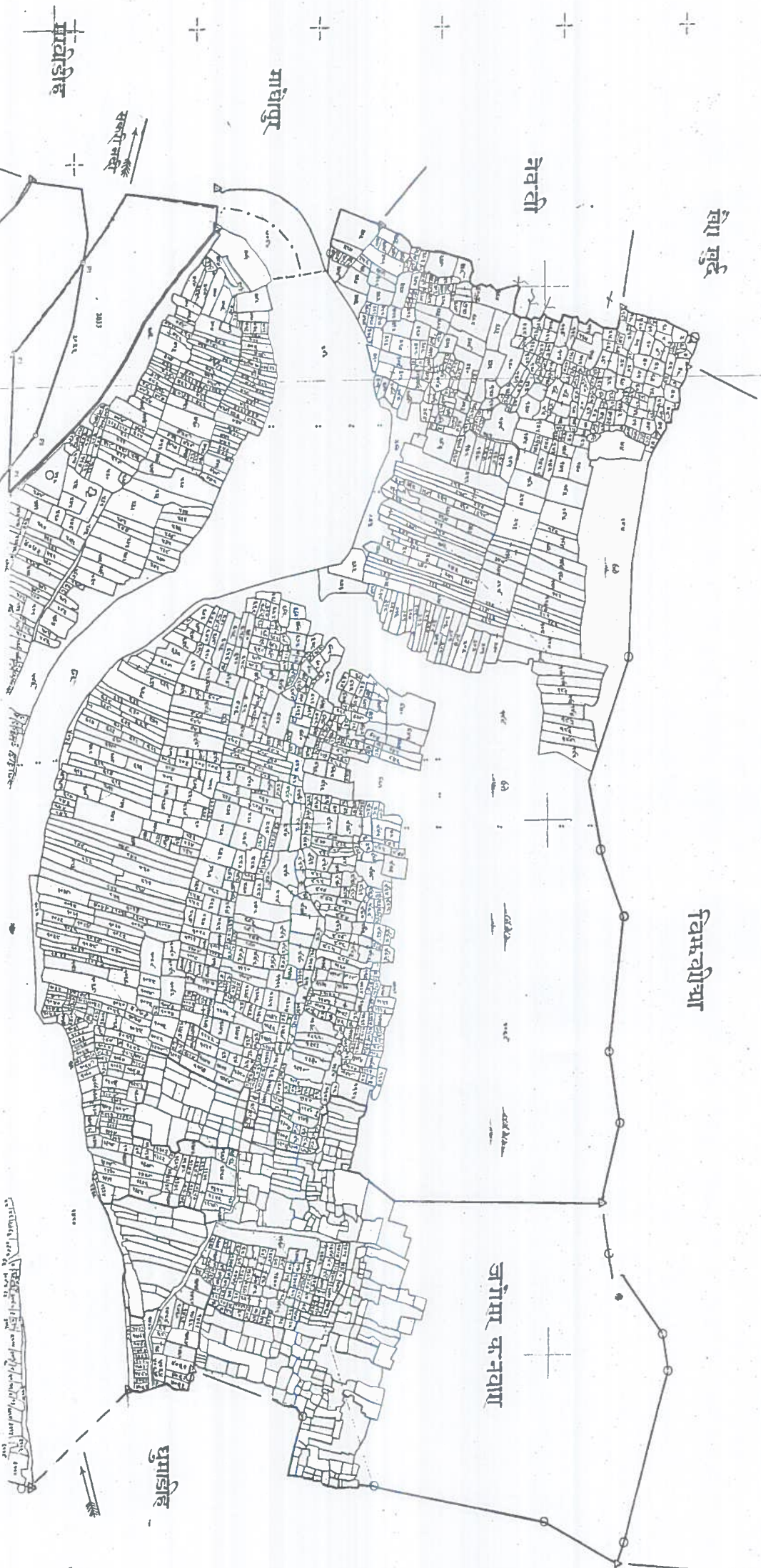
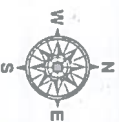
जिला खजुरीबाग

पैमाना/रेखा की मीमा १ ईंच
सम १ ईंच

१	यदिनमान ५ दिन साप्ताहिक समयमा आयमा	पृष्ठ १
२	समान नम सहेन	पृष्ठ २
३	पछा कुवा	पृष्ठ ३
४	कछा कुवा	पृष्ठ ४

Index to sheets

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पैमाना/रेखा की मीमा १ ईंच

Legend

PILLAR POINT

PROPOSED GHAT

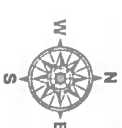
VILLAGE WISE AREA

BLOCK NAME	SATGAWAN	SHEET NO.	42	DATE	15.11.2013
TOTAL AREA	15.11				

Proposed Area in Ha of 01- 25.23

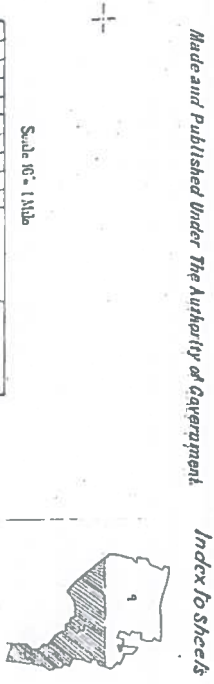


Proposed Ghat of PO_KD_SG_SK_05, Block -Satgawan, District - Koderma, JHARKHAND



Marchoi
मण्चौर नाम
ग्रामाई चट्टा नम्बर २
ग्रामा नम्बर ४२
ग्रामा मण्चौरा
परमन् खगोलिका
जिला हजारीबाग
खैरसलहिसाव की मिला नर देव
सन् १९८२ ई.सि

१	यह निशान पट्टि नष्ट हो सकती है।	२०१७
२	मकान नै नष्ट	२०१७
३	पट्टा नै नष्ट	२०१७
४	कक्षा नै नष्ट	२०१७



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	AREA IN ACRES	REMARKS
SATGAWAN	MARCHOI	42	2	203	32.7893	
TOTAL AREA					32.7893	

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	37950.5371	2738204.167	24°45'12.997" N	85°47'34.665" E
P2	378120.1769	2738196.895	24°45'12.809" N	85°47'40.707" E
P3	378322.7195	2737975.269	24°45'5.663" N	85°47'47.985" E
P4	378342.9291	2737479.604	24°44'49.557" N	85°47'48.860" E

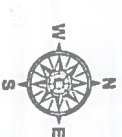
नक्शा
2022
नाम ग्रामा
खगोलिका

Legend

PILLAR POINT
PROPOSED GHAT
VILLAGE WISE AREA



Proposed Ghat of PO_KD_SG_SK_05, Block-Salgawan, District - Kodarma, JHARKHAND



नक्शा नं. २८२
वर्ष २०१०
नाम से माफ
अवधि से माफ
देखें दु गार

माफ
नक्शा
सकते नदी

माफ

नक्शा क
Nar'dih

मधुन नाम नारायडीह
यानो नमर ७२

प्रान सतगावां

प्रान: मराडीह

जिला हजारावा

महानदिसर की नील १६ ईस
सन १९९२ ईस

१	वर्ष नक्शा नं. २८२
२	महान नमर ७२
३	प्रान सतगावां
४	प्रान: मराडीह
५	जिला हजारावा
६	महानदिसर की नील १६ ईस
७	सन १९९२ ईस

नक्शा नमर

तुलाचक

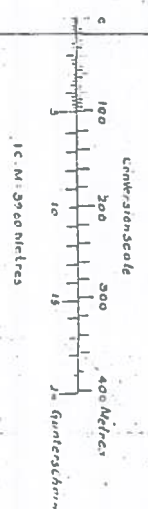
मराडीह

मराडीह

कटरा

समलडीह

सकते नदी



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1:10,000
1:25,000
1:50,000

1:10,000
1:25,000
1:50,000

Legend

● PILLAR POINT

□ PROPOSED GHAT

□ VILLAGE WISE AREA

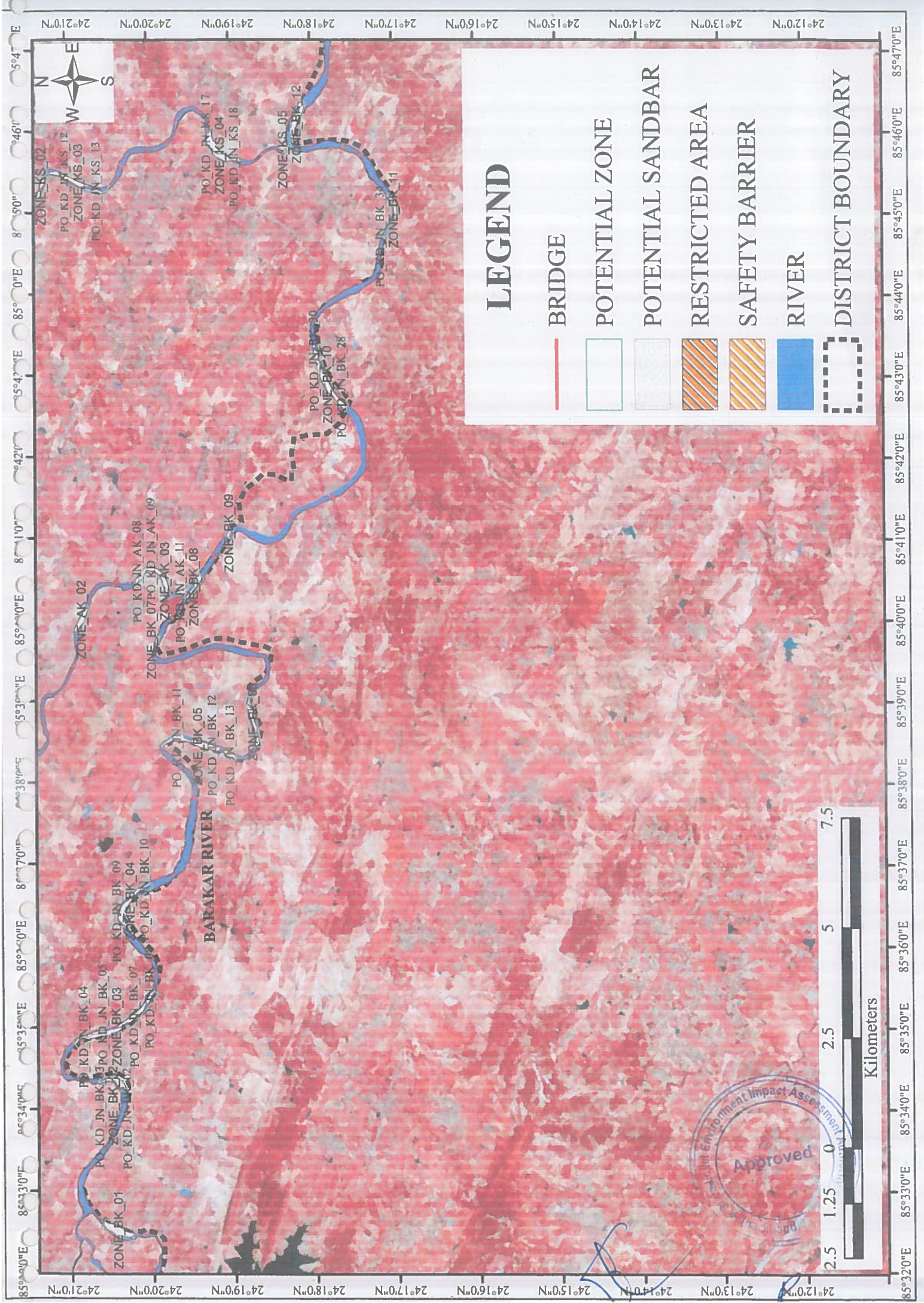
Superintendent of Survey



BLK. NAME	VILLAGE NAME	THANA NO	SHEET NO	BLK. NO	BLK. IN ACRES	REMARKS
SALGAWAN	MAAF	72	1	1	42.501	
SALGAWAN	MAAF	72	1	205	12.284	
TOTAL AREA					54.785	
PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE		
P1	378318.0621	2737392.122	24°44'46.705" N	85°47'48.003" E		
P2	378342.9231	2737479.604	24°44'49.557" N	85°47'48.860" E		
P3	377816.7038	2738318.515	24°45'16.676" N	85°47'29.865" E		
P4	377695.0313	2738232.25	24°45'13.836" N	85°47'25.562" E		
P5	378055.8736	273706.34	24°44'56.845" N	85°47'38.572" E		

Proposed Area in Ha of 05- 25.23

Plate H
(Composite Map of Barakar River)



LEGEND

BRIDGE

POTENTIAL ZONE

POTENTIAL SANDBAR

RESTRICTED AREA

SAFETY BARRIER

RIVER

DISTRICT BOUNDARY



Plate I
(Composite Map of Dudhi River)

85°32'0"E



PO_KD_CD_DD_01
PO_KD_CD_DD_02
ZONE_DD_01
PO_KD_CD_DD_03

PO_KD_CD_DD_06

DUDHI RIVER

PO_KD_CD_DD_10

ZONE_DD_02
PO_KD_CD_DD_11

LEGEND

-  BRIDGE
-  POTENTIAL ZONE
-  POTENTIAL SANDBAR
-  RESTRICTED AREA
-  SAFETY BARRIER
-  RIVER
-  DISTRICT BOUNDARY

0.25 0.125 0 0.25 0.5 0.75

Kilometers

85°32'0"E



Plate J
(Composite Map of Akto River)

85°38'0"E

85°39'0"E

85°40'0"E

85°41'0"E



PO_KD_IN_AK_03
ZONE_AK_01
PO_KD_IN_AK_04

ZONE_AK_02
PO_KD_IN_AK_05

AKKTO RIVER

PO_KD_IN_AK_06
PO_KD_IN_AK_07
PO_KD_IN_AK_08

PO_KD_IN_AK_09

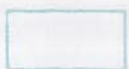
ZONE_AK_03
PO_KD_IN_AK_10

PO_KD_IN_AK_11
PO_KD_IN_AK_12

ZONE_AK_04
PO_KD_IN_AK_13

ZONE_AK_05

LEGEND

-  BRIDGE
-  POTENTIAL ZONE
-  POTENTIAL SANDBAR
-  RESTRICTED AREA
-  SAFETY BARRIER
-  RIVER
-  DISTRICT BOUNDARY



85°38'0"E

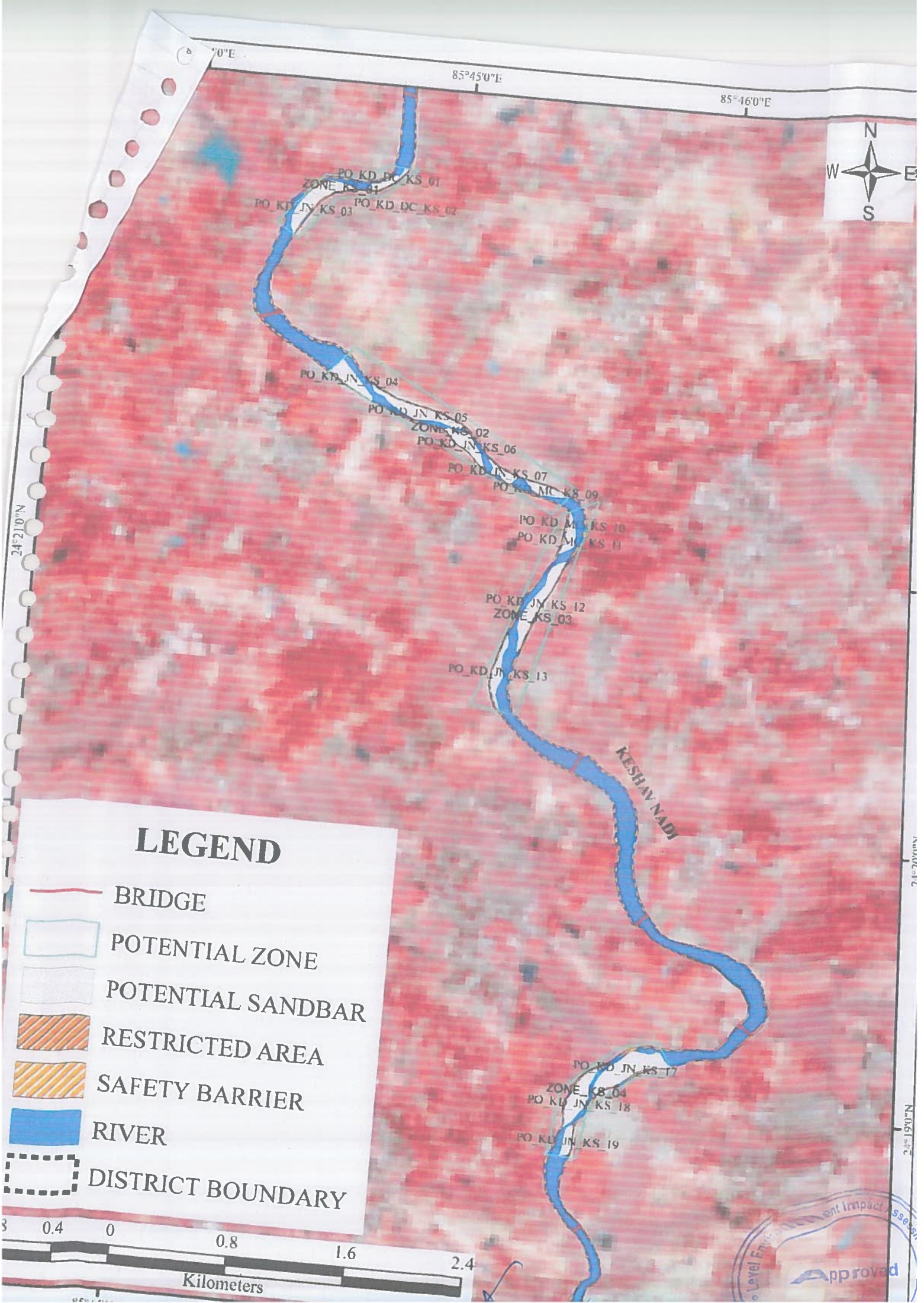
85°39'0"E

85°40'0"E

85°41'0"E

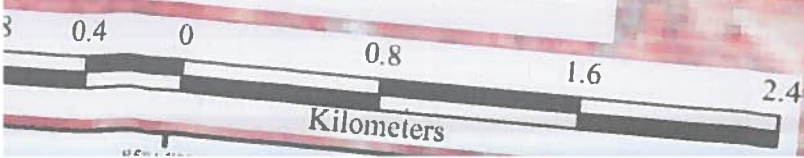


Plate K
(Composite Map of Keso River)



LEGEND

- BRIDGE
- POTENTIAL ZONE
- POTENTIAL SANDBAR
- RESTRICTED AREA
- SAFETY BARRIER
- RIVER
- DISTRICT BOUNDARY



PO_KD_DC_KS_01
ZONE_KS_01
PO_KD_DC_KS_02
PO_KD_JN_KS_03

PO_KD_JN_KS_04
PO_KD_JN_KS_05
ZONE_KS_02
PO_KD_JN_KS_06
PO_KD_JN_KS_07
PO_KD_MC_KS_09

PO_KD_MC_KS_10
PO_KD_MC_KS_11

PO_KD_JN_KS_12
ZONE_KS_03

PO_KD_JN_KS_13

KESHAV NADI

PO_KD_JN_KS_17
ZONE_KS_04
PO_KD_JN_KS_18
PO_KD_JN_KS_19



Plate L
(Composite Map of Dhanarjay River)

85°34'0"E

85°35'0"E



DHANARJAY RIVER

ZONE DJ
PO KD KD DJ 01

PO KD KD DJ 02

ZONE DJ 02
PO KD KD DJ 03

PO KD KD DJ 05 PO KD KD DJ 06

PO KD KD DJ 07

PO KD KD DJ 08

PO KD KD DJ 09

LEGEND

-  BRIDGE
-  POTENTIAL ZONE
-  POTENTIAL SANDBAR
-  RESTRICTED AREA
-  SAFETY BARRIER
-  RIVER
-  DISTRICT BOUNDARY

0.3 0.15 0 0.3 0.6 0.9

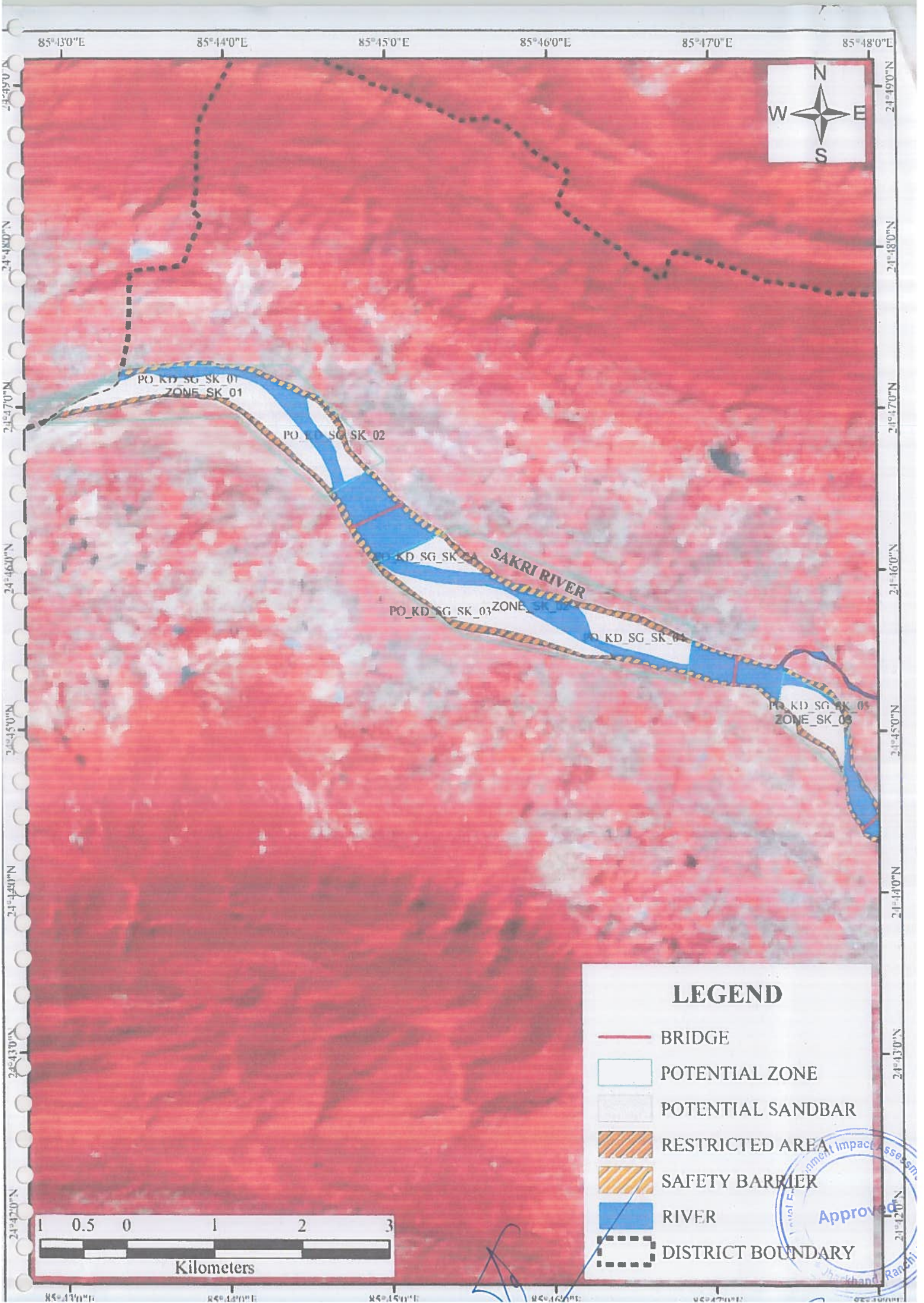
Kilometers

Scale 1:50,000

Scale 1:50,000



Plate M
(Composite Map of Sakri River)



85°43'0"E 85°44'0"E 85°45'0"E 85°46'0"E 85°47'0"E 85°48'0"E



24°39'0"N 24°40'0"N 24°41'0"N 24°42'0"N 24°43'0"N 24°44'0"N 24°45'0"N 24°46'0"N 24°47'0"N 24°48'0"N 24°49'0"N

24°39'0"N 24°40'0"N 24°41'0"N 24°42'0"N 24°43'0"N 24°44'0"N 24°45'0"N 24°46'0"N 24°47'0"N 24°48'0"N 24°49'0"N

PO_KD_SG_SK_01
ZONE_SK_01

PO_KD_SG_SK_02

PO_KD_SG_SK_03

SAKRI RIVER

PO_KD_SG_SK_03
ZONE_SK_03

PO_KD_SG_SK_04

PO_KD_SG_SK_05
ZONE_SK_05

LEGEND

- BRIDGE
- POTENTIAL ZONE
- POTENTIAL SANDBAR
- RESTRICTED AREA
- SAFETY BARRIER
- RIVER
- DISTRICT BOUNDARY



Plate N
(Composite Map of Koderma district)

85°20'0"E

85°30'0"E

85°40'0"E

85°50'0"E



24°50'0"N

24°40'0"N

24°30'0"N

24°20'0"N

24°10'0"N

6 3 0 6 12 18

Kilometers

LEGEND

- BRIDGE
- POTENTIAL ZONE
- POTENTIAL SANDBAR
- RESTRICTED AREA
- SAFETY BARRIER
- RIVER
- DISTRICT BOUNDARY

District Mining Office, Koderma

To whom it may concern

This is to certify that all sitting criteria/ Provision of JSPCB & SEIAA, Jharkhand has been complied.

As per JSPCB notification no.- B-21, Ranchi dated 16/08/13.

Minimum Distance from	Distance (in meter)
NH	100
SH	100
Distance metal road	50
Railway line	100
River	100
Any other river	100
Habitation	200
Forest /Forest Land	400

As per 58th MOM -of- SEIAA Jharkhand

III. Revised format for PP to get the following information/certification from Circle Officer:-

क्रम सं०	निर्धारित बिन्दु	हाँ / नहीं
1.	क्या अर्द्धवृत्त भूमि को "नोटि नॉट जॉइनिंग" द्वारा चिह्नित है?	
2.	क्या 500 मीटर की दूरी के अंदर कोई मानव बसावट (Habitation) स्थित है?	
3.	क्या 500 मीटर की दूरी के अंदर कोई जल संयंत्र (Dam/Reservoir) स्थित है?	
4.	क्या 500 मीटर की दूरी के अंदर कोई नदी (River) स्थित है?	
5.	क्या 500 मीटर की दूरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	
6.	क्या 500 मीटर की दूरी के अंदर कोई चिकित्सालय (Hospital) स्थित है?	
7.	क्या 10 कि०मी० की दूरी के अंदर कोई अंतर्राज्यीय (Interstate) सीमा है?	
8.	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विक (Monuments/Archaeological) महल के स्थल स्थित है?	

As per 67th MOM -of- SEIAA Jharkhand

iv. Revised format for project proponent to get the following information / certification from Divisional Forest Officer concerned :-

क्रम सं०	निर्धारित बिन्दु	हाँ / नहीं
1.	क्या परियोजना स्थल से आरक्षित वन / संरक्षित वन भूमि से दूरी 250 मी० है?	
2.	क्या परियोजना स्थल No Mining Zone अंतर्गत आता है?	
3.	क्या परियोजना स्थल से 10 कि०मी० की दूरी के अंदर कोई नदी स्थित है?	
4.	क्या परियोजना स्थल से 10 कि०मी० की दूरी के अंदर कोई जल संयंत्र स्थित है?	
5.	क्या परियोजना स्थल से 10 कि०मी० की दूरी के अंदर कोई इको सेंसिटिव ज़ोन (Eco Sensitive Zone) है?	
6.	क्या अर्द्धवृत्त परियोजना ESZ के अंतर्गत प्रभावित नहीं है अतः है उचित नहीं?	

District Mining Officer

Koderma



DISTANCE FROM BRIDGE FROM PROPOSED SAND GHATS, KODERMA

SL NO.	Sandbars Code	Name of River	Lease Details	Area in Ha.	Distance from Bridge
1	PO_KD_CD_DD_01	DUDHI	DUDHI 01	0.38	1.22 Km
2	PO_KD_CD_DD_02		DUDHI 02	0.09	1.16 Km
3	PO_KD_CD_DD_03		DUDHI 03	0.16	1.12 Km
4	PO_KD_CD_DD_06		DUDHI 04	0.18	930 m
5	PO_KD_CD_DD_10		DUDHI 05	0.08	502 m
6	PO_KD_CD_DD_11		DUDHI 06	0.65	550 m
7	PO_KD_JN_AK_03	AKTO	AKTO 01	0.74	There is no bridge within 1 Km radius
8	PO_KD_JN_AK_04		AKTO 02	0.63	There is no bridge within 1 Km radius
9	PO_KD_JN_AK_05		AKTO 03	3.82	Up Stream: 710 m Down Stream: 700 m
10	PO_KD_JN_AK_06		AKTO 04	0.49	520 m
11	PO_KD_JN_AK_07		AKTO 05	0.76	580 m
12	PO_KD_JN_AK_08		AKTO 06	0.94	620 m
13	PO_KD_JN_AK_09		AKTO 07	2.86	820 m
14	PO_KD_JN_AK_10		AKTO 08	1.69	1.12 Km
15	PO_KD_JN_AK_11		AKTO 09	2.17	1.39 Km
16	PO_KD_DC_KS_01	KESO	KESO 01	0.89	Up Stream: 506 m Down Stream: 1.03 Km
17	PO_KD_DC_KS_02		KESO 02	1.56	Up Stream: 730 m Down Stream: 840 m
18	PO_KD_JN_KS_03		KESO 03	2.15	Up Stream: 916 m Down Stream: 530 m
19	PO_KD_JN_KS_04		KESO 04	2.36	520 m
20	PO_KD_JN_KS_05		KESO 05	3.18	770 m
21	PO_KD_JN_KS_06		KESO 06	1.91	1.3 Km
22	PO_KD_JN_KS_07		KESO 07	0.6	1.64 Km
23	PO_KD_JN_KS_08		KESO 08	0.33	1.75
24	PO_KD_MC_KS_09		KESO 09	1.24	1.82
25	PO_KD_MC_KS_10		KESO 10	0.39	1.58
26	PO_KD_MC_KS_11		KESO 11	0.95	1.43 Km
27	PO_KD_JN_KS_12		KESO 12	3.74	830 m
28	PO_KD_JN_KS_13		KESO 13	1.74	590 m
29	PO_KD_JN_KS_17		KESO 14	5.35	Up Stream: 520 m Down Stream: 880 m
30	PO_KD_JN_KS_18		KESO 15	3.21	Up Stream: 870 m Down Stream: 680 m
31	PO_KD_JN_KS_19		KESO 16	1	Up Stream: 1.21 Down Stream: 510 m

