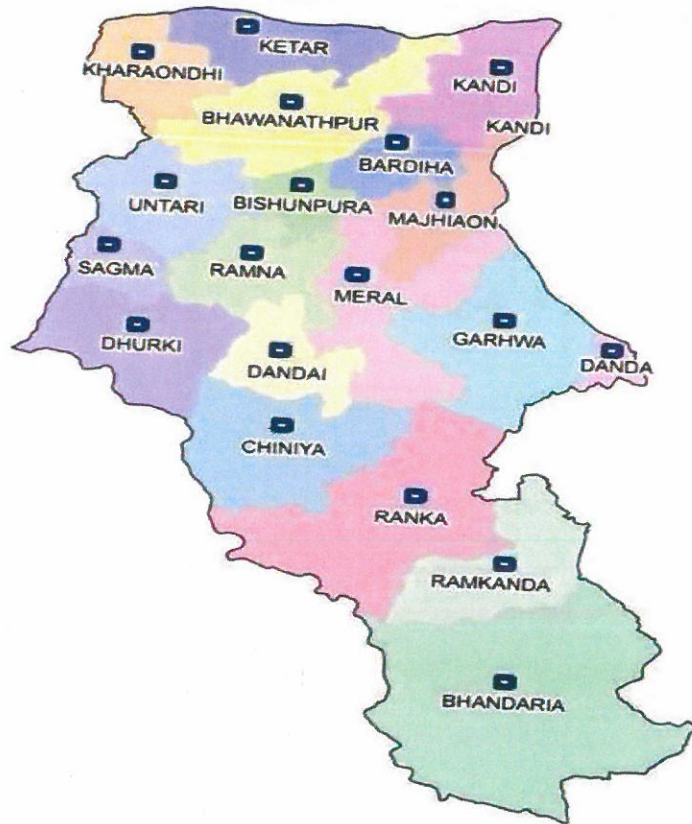


DISTRICT SURVEY REPORT FOR SAND MINERAL OF GARHWA DISTRICT, JHARKHAND

(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

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New Delhi- 110 066
(QCI NABET Accreditation No. - NABET/EIA/2124/IA 0079
Valid till 10.03.2024)


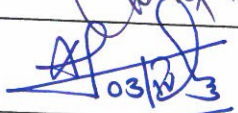
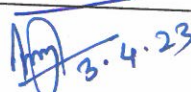
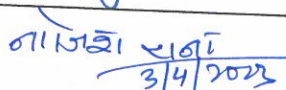
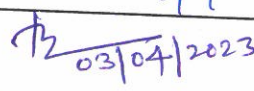
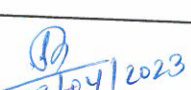
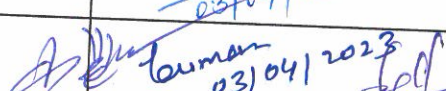
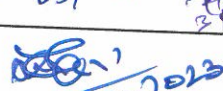


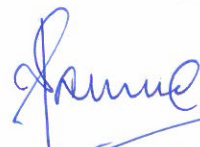
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The Deputy Commissioner through letter 344/M, Garhwa, dated 10.03.2023 had constituted a Sub-Divisional Committee to verify the District Survey Report prepared by Environmental Consultant. List of the members of the Sub-Divisional Committee is as follows:

क्र०सं०	पदाधिकारी	हस्ताक्षर
1.	अनुमंडल पदाधिकारी, गढ़वा ।	 3/4/23
2.	अनुमंडल पदाधिकारी, श्रीबंशीधर नगर।	 03/04/23
3.	अनुमंडल पदाधिकारी, रंका ।	 3.4.23
4.	सहायक निदेशक भूतत्व, पलामू।	 3/4/2023
5.	कार्यपालक अभियंता, सिंचाई विभाग, गढ़वा।	 03/04/2023
6.	क्षेत्रीय पदाधिकारी, JSPCB, राँची।	For.  03/04/2023
7.	सम्बंधित वनो के क्षेत्र पदाधिकारी ।	 03/04/2023
8.	जिला खनन पदाधिकारी, गढ़वा ।	 3.4.2023

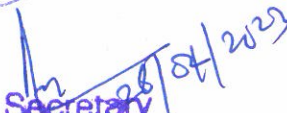

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गढ़वा


28/04/2023

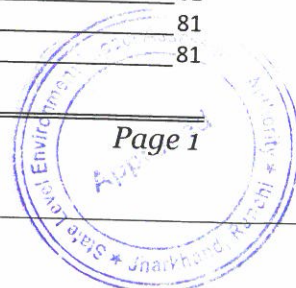
Member
State Level Environment Impact
Assessment Authority, Jharkhand


28/04/2023
Member Secretary
State Level Environment
Impact Assessment Authority
Jharkhand


28/04/23
Chairman
State Level Environment Impact
Assessment Authority, Jharkhand

Table of Contents

1 Preface	5
2 Introduction	6
2.1 Statutory Framework:	7
2.2 Methodology of DSR Preparation	9
2.2.1 Data source Identification:	9
2.2.2 Data Analysis and Map preparation:	10
2.2.3 Primary Data Collection:	13
2.2.4 Report Preparation:	13
2.3 Demand and Supply of Sand	13
3 General Profile of the district	15
3.1 General Information	15
3.2 Administrative Setup of District	16
3.2.1 Climate Condition	17
3.2.2 Demography	18
3.2.3 Cropping pattern	18
3.2.4 Topography & Terrain	18
3.2.5 Hydrogeology	20
3.2.6 Ground Water Development:	23
4 Physiography of the district	31
4.1.1 General Landforms	31
4.1.2 Soil and rock pattern	31
5 Land use pattern of the district:	32
6 Geology:	34
7 Mineral wealth	36
8 Overview of mining activity in the district:	72
8.1 General overview:	72
8.2 List of existing mining leases of the districts	72
8.3 Detail of production of sand and other minerals during last years	75
9 Details of revenue generated from mineral sector during last years:	76
10 Transport (Railway, road):	77
11 Environmental Sensitivity	80
11.1 Sand mining Impact	80
11.2 Remedial measure	81
11.2.1 Sustainable Mining Practices:	81
11.2.2 Monitoring the Mining of Mineral and its Transportation:	81
11.2.3 Noise Management:	81
11.2.4 Air Pollution and Dust Management:	81



*District Survey Report Sand Mineral
Garhwa District
Jharkhand*

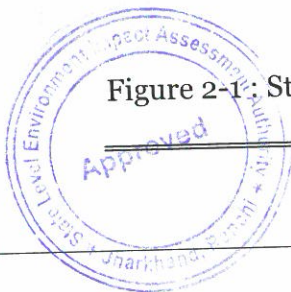
11.2.5	Bio-Diversity Protection: _____	82
11.2.6	Management of Instability and Erosion: _____	82
11.2.7	Waste Management: _____	83
11.2.8	Pollution Prevention: _____	83
11.2.9	Protection of Infrastructure: _____	83
11.3	Suggested reclamation plan for already mined out areas _____	83
12	Risk assessment and disaster management plan _____	85
12.1	Identification of risk due to river sand mining _____	85
12.2	Mitigation measures _____	85
12.2.1	Measures to prevent accidents during loading and transportation: _____	85
12.2.2	Measures to prevent incidents during Inundation/ Flooding: _____	86
12.2.3	Measures for mitigation to quick sand condition: _____	86
12.3	Disaster management plan _____	86
13	Conclusion: _____	87

List of Tables:

Table 2-1	: Requirement of District Survey Report & its year wise modification of Guidelines.....	7
Table 2-2	: Details of Dispatch and Royalty	14
Table 3-1	: Details of Block of Garhwa District	17
Table 3-2	: Details of rainfall data of five years (from 2017 to 2021)	18
Table 3-3	: Stage of ground water development of Garhwa District as on 31st March 2009(Ha-m).....	24
Table 7-1	: Drainage System with description of Main River.....	37
Table 7-2	: Salient Features of Important River & Stream	37
Table 7-3	: Place of Origin of important rivers and streams	37
Table 7-4	: Estimation of Sand Resources in Pre-monsoon period & Post monsoon period in sand bars.....	48
Table 7-5	: Sediment Load comparison between Pre-& Post Monsoon periods for different rivers of Garhwa district	55
Table 7-6	: Runoff coefficient of the catchment based on Strange's Table.....	58
Table 7-7	: Replenishment parameter estimated for each river in the district	64
Table 7-8	: Year-wise sedimentation rate (tons/km ² /yr) for last 5 years of each river	64
Table 7-9	: Annual deposition of Riverbed minerals	67
Table 7-10	: Resources of Potential Riverbed Mineral	67
Table 7-11	: Potential Zone of Riverbed Mineral	67
Table 7-12	: Restricted Zone of Riverbed Mineral	69
Table 8-1	: Details of Sand mining leases of the districts	72
Table 8-2	: Detail of production of sand and other minerals during last three years	75
Table 9-1	: District revenue generation from mineral sector in Rs.....	76

List of Figures

Figure 2-1	: Steps followed in preparation of DSR.....	9
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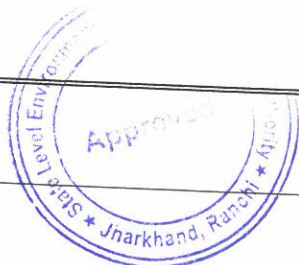


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*District Survey Report Sand Mineral
Garhwa District
Jharkhand*

Figure 2-2 : Pictorial description of Land Use Classification methods	11
Figure 2-3 : Pictorial description of Geomorphological Units Classification methods	11
Figure 3-1 : Location map of Garhwa district, Jharkhand	15
Figure 3-2: Block map of Garhwa District, Jharkhand.....	16
Figure 3-3: Topographical Map Garhwa District	19
Figure 3-4 : Hydrogeological map of Garhwa district	21
Figure 3-5 : Pre- Monsoon depth to water level (2011) map of Garhwa district.....	22
Figure 3-6 : Post monsoon depth to water level map of Garhwa district (Nov. 2020)	23
Figure 3-7 : Drainage map of Garhwa district	26
Figure 3-8 : Multi hazard prone area in Jharkhand	27
Figure 3-9 : Jharkhand Earthquake Map	28
Figure 3-10 : Wildlife Protected area in Jharkhand District.....	29
Figure 3-11 : Forest Cover Map of Jharkhand.....	29
Figure 3-12: Forest Cover Garhwa District, Jharkhand.....	30
Figure 6-1:- Geological Map of Garhwa	34
Figure 6-2:- District Resource Map, Palamu & Garhwa, Jharkhand.....	35
Figure 7-1:- Plan showing the major rivers along with the distribution of Section Lines, Garhwa District, Jharkhand.....	39
Figure 7-2:- Cross Section	40
Figure 7-3:- Site View of Field Survey.....	45
Figure 7-4:- Watershed map of Garhwa District	57
Figure 7-5:- Graphical representation of year-wise sedimentation rate.....	65
Figure 7-6:- A representative map showing no-mining zone demarcated on Kanhar River	71
Figure 10-1 : Road map of Garhwa District.....	78
Figure 10-2 : Railway map of Garhwa District.....	79

Annexure	
ANNEXURE-1	Compliance Report
ANNEXURE- A	Details of Existing Sand Ghats (As per old DSR)
ANNEXURE -B	Committee Involved in DSR
ANNEXURE -C	Photographs of the site Survey
ANNEXURE -D	Sp. Gravity & Bulk Density data of sand from NABL lab
ANNEXURE -E	Proposed Ghat Coordinate
ANNEXURE -F	DFO & CO Report
ANNEXURE - G	Advertisement Copy/ Public Domain
ANNEXURE - H	Annexure as prescribed in the EMGSM, 2020
ANNEXURE - I	Haul Road Map



*District Survey Report Sand Mineral
Garhwa District
Jharkhand*

ANNEXURE – J	Undertaking regarding presence of aquatic animal certified by concerned Govt. Departments like Zoological survey of India.
ANNEXURE – K	Pre- Monsoon data provided by District mining office, Garhwa
ANNEXURE – L	Undertaking 9.3
Plate	
Plate A	Plate showing sandbars in pre-monsoon
Plate B	Plate showing potential Zone in post-monsoon
Plate C	Cadastral Map of Son, North Koyal & Kanhar River
Plate D	Composite Map of Son River
Plate E	Composite Map of North Koel River
Plate F	Composite Map of Kanhar River
Plate G	Composite Map of Garhwa district



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



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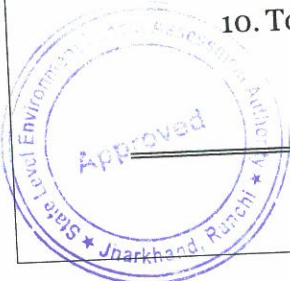
2 Introduction

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

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

The objectives of the District Survey Report are as following:

1. To identify and quantify minor mineral sand resources for its optimal utilization.
2. To regulate sand and gravel mining in the district Garhwa, identification of site-specific end-use consumers and reduction in demand and supply gaps.
3. To facilitate use of Information Technology (IT) for surveillance of the sand mining at each step.
4. To enable environmental clearance for cluster of sand and gravel mines.
5. To restrict illegal mining.
6. To reduce occurrences of flood in the area.
7. To maintain the aquatic habitats.
8. To protect ground water in the area by limiting extraction of material in riverbeds to an elevation above the base flow.
9. To maintain data records viz. details of mineral resource, potential area, lease, approved mining plan, co-ordinates of lease hold areas, and revenue generation.
10. To design a scientific mining plan and estimate ultimate pit limit.



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*District Survey Report, Sand Mineral
Garhwa District
Jharkhand*

To frame a comprehensive guideline for mining of sand and other minor minerals.

The District Survey report (DSR) 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 344/M, Garhwa, dated 10.03.2023 had constituted a Sub-Divisional Committee to verify the District Survey Report prepared by Environmental Consultant. List of the members of the Sub-Divisional Committee is as follows:

- अनुमंडल पदाधिकारी, गढ़वा ।
- अनुमंडल पदाधिकारी, श्रीबंशीधर नगर।
- अनुमंडल पदाधिकारी, रंका ।
- सहायक निदेशक भूतत्व, पलामू।
- कार्यपालक अभियंता, सिंचाई विभाग, गढ़वा।
- क्षेत्रीय पदाधिकारी, JSPCB, राँची।
- सम्बंधित वनो के क्षेत्र पदाधिकारी ।
- जिला खनन पदाधिकारी, गढ़वा ।

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 2-1 : Requirement of District Survey Report & its year wise modification of Guidelines

Year	Particulars
1994	The Ministry of Environment, Forest & Climate Change (MoEF&CC) published Environmental Impact Assessment Notification 1994 which is only applicable for the Major Minerals more than 5 ha.
2006	In order to cover the minor minerals also into the preview of EIA, the MoEF&CC issued EIA Notification SO 1533 (E), dated 14th September 2006, made mandatory to obtain environmental clearance for both Major & Minor Mineral more than 5 Ha.



District Survey Report, Sand Mineral
Garhwa District
Jharkhand

Year	Particulars
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	<p>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.</p> <p>The main objective of Jharkhand State Sand Mining Policy, 2017 to ensure that sand mining is done in an environmentally sustainable and socially responsible manner, Preparation of District Survey Report, and to ensure Categorization of Streams/Rivers, Management of Sand Deposition.</p>
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



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Year	Particulars
	identification of areas of erosion and proximity to infrastructural structures and installations where mining should be prohibited and calculation of annual rate of replenishment and allowing time for replenishment after mining in that area”.
2020	Enforcement & Monitoring Guidelines for Sand Mining (EMGSM) 2020 has been published modifying Sustainable Sand Mining Guidelines, 2016 by MoEF & CC for effective enforcement of regulatory provisions and their monitoring. The EMGSM 2020 directed the states to carry out river audits, put detailed survey reports of all mining areas online and in the public domain, conduct replenishment studies of river beds, constantly monitor mining with drones, aerial surveys, ground surveys and set up dedicated task forces at district levels. The guidelines also push for online sales and purchase of sand and other riverbed materials to make the process transparent. They propose night surveillance of mining activity through night-vision drones.

2.2 Methodology of DSR Preparation

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

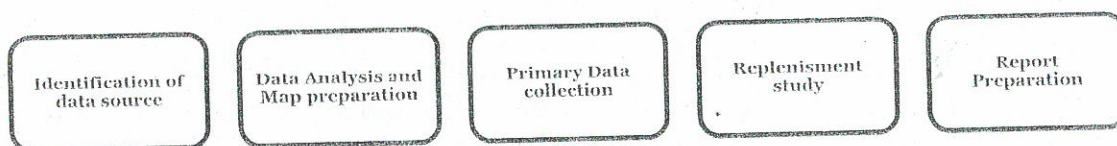


Figure 2-1 : Steps followed in preparation of DSR

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



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

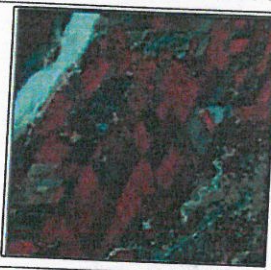


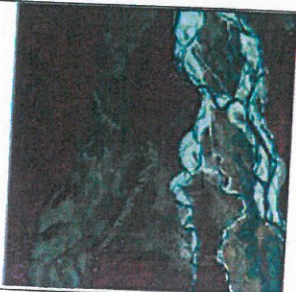
2.2.2 Data Analysis and Map preparation:

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 Composite) 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.
	



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<p>Agricultural Fallow Land - Based on their Geometrical shape, Light and dark cyan with light pink colour tone, Agricultural Land has been identified.</p>	<p>Bad Land Topography- Light Yellowish mixed with cyan colour has been identified as Bad Land Topography.</p>
	
<p>Settlement - Area with Cyan Colour including geometrical shape has been recognised as Settlement Area.</p>	<p>Water Bodies - Dark blue colour has been classified as Water Bodies.</p>

Figure 2-2 : Pictorial description of Land Use Classification methods

Geomorphological Map:

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



	
<p>Alluvial Plain- In satellite Imagery the flat land has been identified as Alluvial Plain just below the Alluvial Fan.</p>	<p>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.</p>

Figure 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)**.



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- 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.



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- 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 river cross-section studies 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, Garhwa is attached an Annexure – K.

2.2.4 Report Preparation:

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

2.3 Demand and Supply of Sand

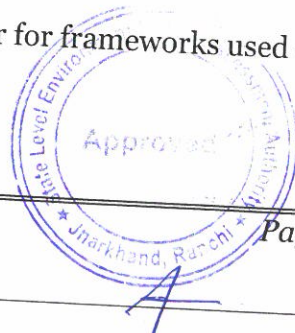
Sand is a multi-purpose topographical material. It is known as one of the three fundamental ingredients in concrete. The composition of sand is diverse.

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 bunting metal, we can mix sand with clay binder for frameworks used in the foundries.



*District Survey Report, Sand Mineral
Garhwa District
Jharkhand*

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

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

Table 2-2: Details of Dispatch and Royalty

Sl. No.	Year	Total Dispatch In Cft	Royalty in Lakh
1	2019-2020	4598397.90	37.6
2	2020-2021	13825610.30	89.36
3	2021-2022	10992580.00	89.41
Total		29416588.2	235.51

The demand is increasing gradually year by year which is also justified by the dispatch details of last years.



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3 General Profile of the district

3.1 General Information

Garhwa district is located in the north-western part of the state. It came into existence on 31st March 1991. Garhwa district occupies the North – West Part of Jharkhand with a geographical area of 4273.52 Sq. Km. It is an under developed and draught prone district having diverse terrain. The district lies between 23° 60' and 24° 39' north latitude and 83° 22' and 84° 00' east longitude. It falls in the survey of India Toposheet No. 63P/07, 63P/08, 63P/11, 63P/12, 63P/15, 63P/16, 64M/09, 64M/13 and 64M/14, 63P/06, 63P/10, 63P/14, 64M/10, 73A/1, 73A/2.

Garhwa district bordered by river Sone on the north, Palamau district of Jharkhand state on the east, Surguja district of Chhattisgarh state on the south, and Sonebhadra district of Uttar Pradesh on the west.



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



3.2 Administrative Setup of District

Garhwa district has 3 Subdivisions (Garhwa, Ranka & Nagar Untari). There are 20 blocks in Garhwa district. There are 189 Gram Panchayats and 915 revenue villages in this district. Garhwa Sadar, Meral, Ramna, Banshidhar-Nagar, Bhawanathpur, Bardiha, Bhandaria, China, Ranka, Ramkanda, Dhurki, Bishunpura, Manjhiaon, Kandi, Kharaundhi, Danda, Dandai, Bargarh, Ketar & Sagma.

The Deputy Commissioner is the administrative head of the district. Whereas Superintendent of Police heads the Police administration. Judicial Commissioner heads the Judiciary in the district. Sub-divisional Officer is responsible for running the administration of the sub-division under the control and supervision of the Deputy Commissioner. Each Community Development Block is headed by Block Development Officer. The Block Development Officer functions under the direct control and supervision of the sub-divisional officer.

Administrative Setup of Garhwa Includes:

- Collectorate
- Subdivision
- Blocks
- Panchayats.

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

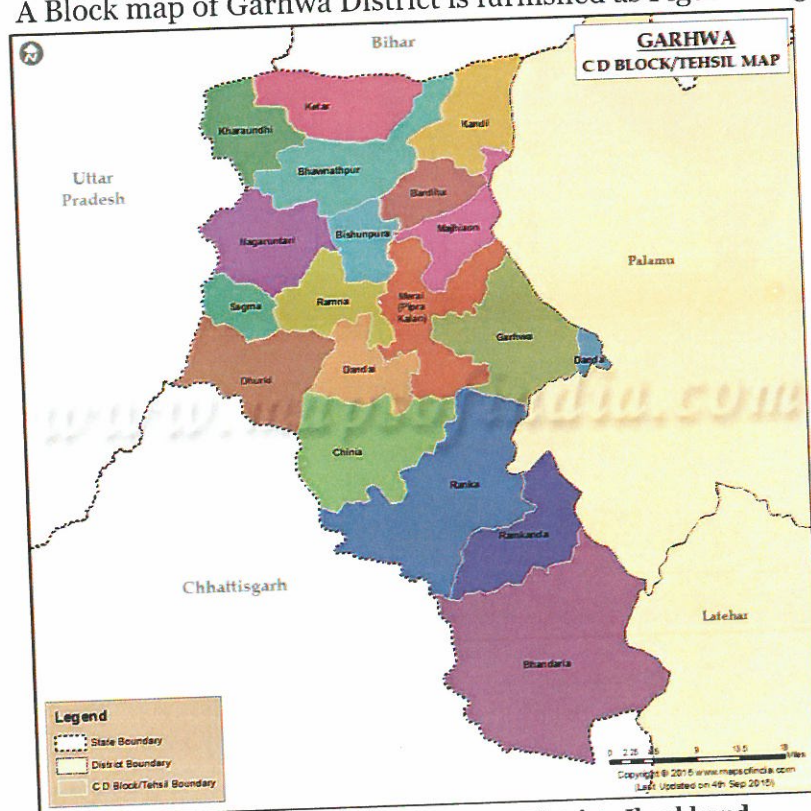


Figure 3-2: Block map of Garhwa District, Jharkhand
(Source: garhwa.nic.in)



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Detail of Blocks of Garhwa District is furnished in Table No.3.1.

Table 3-1 : Details of Block of Garhwa District

Sl. No.	Block Name	Area in sq.km.
1	Garhwa Sadar	258
2	Meral	272
3	Ramna	121
4	Banshidhar-Nagar	197
5	Bhawanathpur	249
6	Bardiha	89
7	Bhandaria	693
8	Chinia	281
9	Ranka	448
10	Ramkanda	217
11	Dhurki	234
12	Bishunpura	97
13	Manjhiaon	135
14	Kandi	191
15	Kharaundhi,	151
16	Danda	32
17	Dandai	140
18	Bargarh	6.94
19	Ketar	183
20	Sagma	106

(Source: <https://villageinfo.in/jharkhand/Garhwa.html>)

3.2.1 Climate Condition

The climate of the district is humid and sub-tropical. The year can be divided in to three main seasons, the winter season from November to March, the summer season is from March to May and Monsoon season from June to September; October is a transitional month between Monsoon and winter seasons. December and January are the coolest months. In winter the temperature goes down to 3°C. By March temperature begin to rise steadily. In May and early part of June the maximum temperature can be as high as 47°C on individual days. Humidity is generally normal in this district, except in Monsoon months.

From the onset of the Monsoon by the middle of June, rainfall rapidly increases reaching the peak level in August and continued to till the September.



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*District Survey Report, Sand Mineral
Garhwa District
Jharkhand*

The annual variation of rainfall is not much. The maximum precipitation occurs during July month. The average normal rainfall of the district as a whole is 1193 mm. During winter season it hardly records 10 cm rainfall but most of the rain occurs during rainy season.

The rainfall of the district is given below in Table No.3.2.

Table 3-2 : Details of rainfall data of five years (from 2017 to 2021)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	Total
2017	7.3	0.2	3	0	0	12.4	171	165.6	70.4	19.2	3.4	0	452.5
2018	0	7.4	0		6.2	46.2	149.8	166.4	70.2	14	0	6.8	467
2019	2.4	6.4	12.4	6	0	42.8	161.6	159.4	86.2	29	0	17	523.2
2020	11	9.4	60	3.2	16.6	273.8	222	130.9	86.4	11.2	0.8	0	825.3
2021	3.4	0	0	4.6	108.4	203	222.2	164.8	187	58.1	0	7.6	959.1
Average	4.82	4.68	15.08	3.45	26.24	115.64	185.32	157.42	100.04	26.3	0.84	6.28	645.42

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

3.2.2 Demography

According to the 2011 census, Garhwa district has a population of 1,322,387 with which 683,984 male population and 638,403 female population. The district has a population density of 327 inhabitants per square kilometre (850 /sq mi). Its population growth rate over the decade 2001-2011 was 27.71%. Garhwa has a sex ratio of 933 females for every 1000 males, and a literacy rate of 62.18%. The district headquarter is Garhwa. Garhwa has a sex ratio of 933 females for every 1000 males, and a literacy rate of 62.18%.

3.2.3 Cropping pattern

Rice is the main staple food of the district and it is chiefly grown. Maize and wheat are other notable crops. Sugarcane, Oilseeds, Pulses and vegetables are also grown in the district the seed collection of sal, mahua, semal and other forest produce like lac, kendu leaves, etc are also part of income for some period there are 35730.50 Hecter of agricultural land in the district. Approximately per capita land holding is 0.17 Hecter.

3.2.4 Topography & Terrain

Garhwa district spreads over widely scattered hills. The average elevation of this district is about 1200 feet above the mean sea level. There are low lands in northern and western parts of the district which is suitable for agricultural purposes. The general line of drainage is from south to north towards the river Koyal and Son. Koyal forms the eastern boundary and Son forms northern boundary of the district. Other important rivers of the district are Danro, Sarsatiya, Tahale, Annaraj, Urea, Bai Banki, Bellaiti, Pando, Biraha, and Sapahi. The river North Koel is the main river of the district, which flows south to north direction



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District Survey Report, Sand Mineral
Garhwa District
Jharkhand

and forms north – east boundary of the district. Due to its geographical formation Garhwa District is rich in water resources.

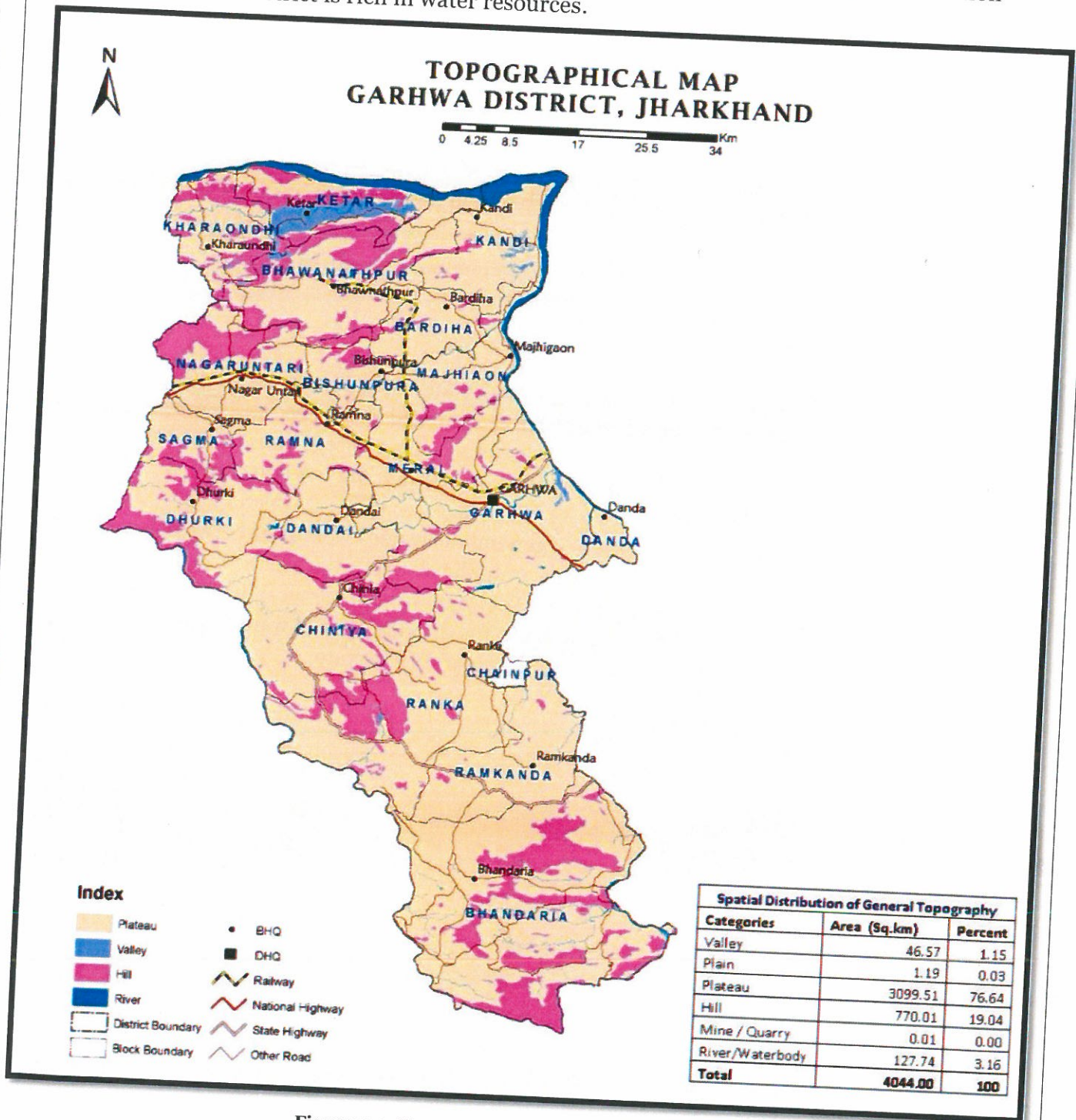


Figure 3-3: Topographical Map Garhwa District

(source: https://jsac.jharkhand.gov.in/district_profile/Garhwa.pdf)



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3.2.5 Hydrogeology

The district is underlain by hard rock foundations if belonging to the Precambrian period and recent alluvium along river banks. The geology and structure of underlying basement controls the occurrence and movement of ground water. The ground water occurs in secondary porosity like joints, fractures and the extent of inter connection with them. Ground water occurs in the district within weathered mantle. Limited volume in alluvial deposits occurring along the Sone and North Koel rivers. The thickness of weathered mantle varies from 5 to 16 mbgl in general. The source of Ground Water recharge is entirely by rainfall. The rivers of the district are effluent which do not contain appreciable amount of water during lean period to recharge Ground water at lower reaches. Major part of the rain water goes as run off.

DEPTH TO WATER LEVEL: Central Ground Water Board has established network of observation wells for monitoring of ground water level to know the behaviour of ground ground regime in the district. There are six nos. of NHNS monitoring which are monitored every year in January, May, August and November.

During Pre-monsoon season in general the water level varies between 5 and 10 mbgl throughout the district. Higher water level >10 mbgl are recorded in northern and southern part of the state. The water level in general the water level varies between 2 and 5 mbgl as throughout the district. Higher water level > 5.00 mbgl are recorded in northern and southern part of the state.



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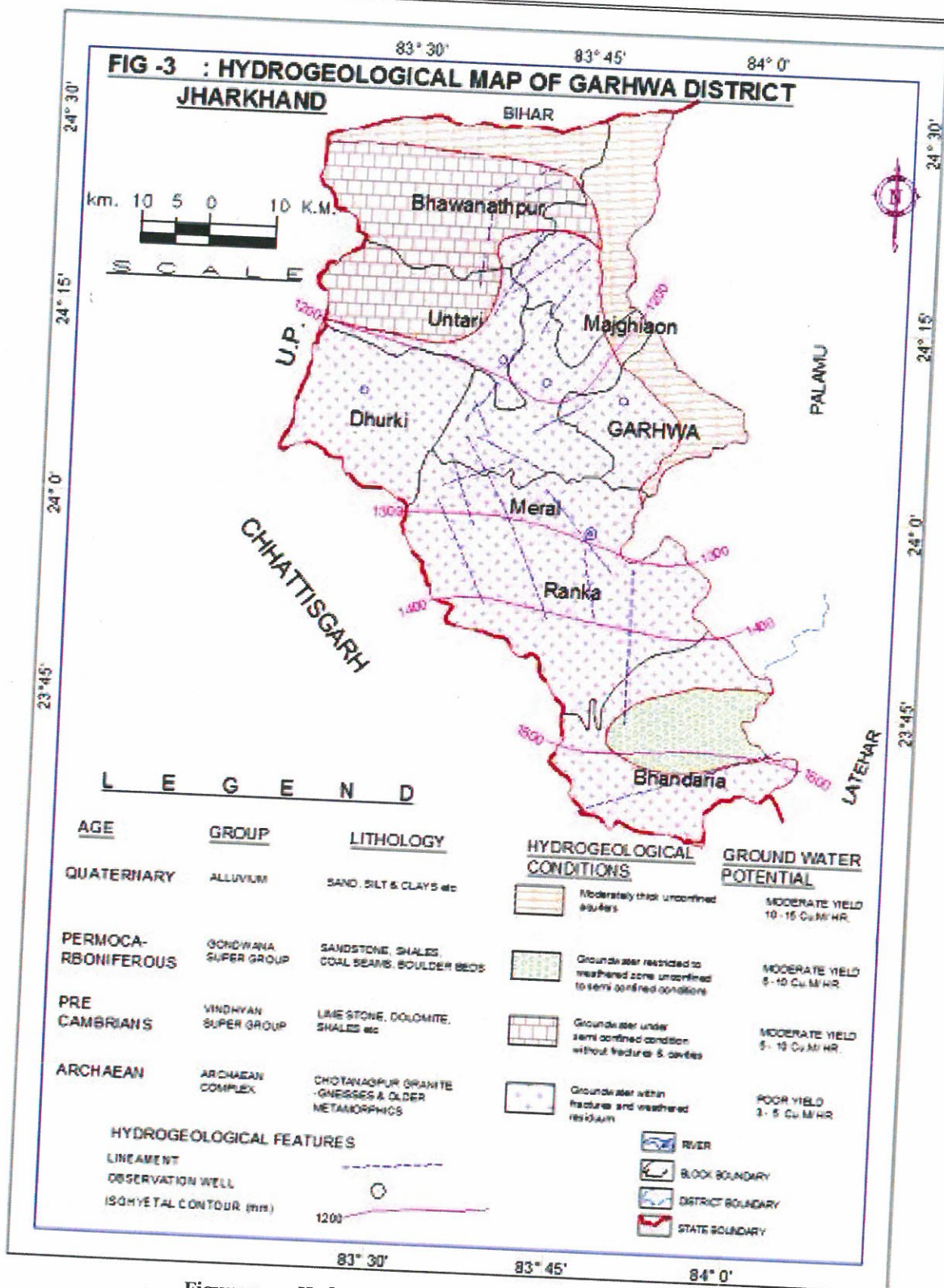


Figure 3-4 : Hydrogeological map of Garhwa district

(Source: Central Ground Water Board, Garhwa)



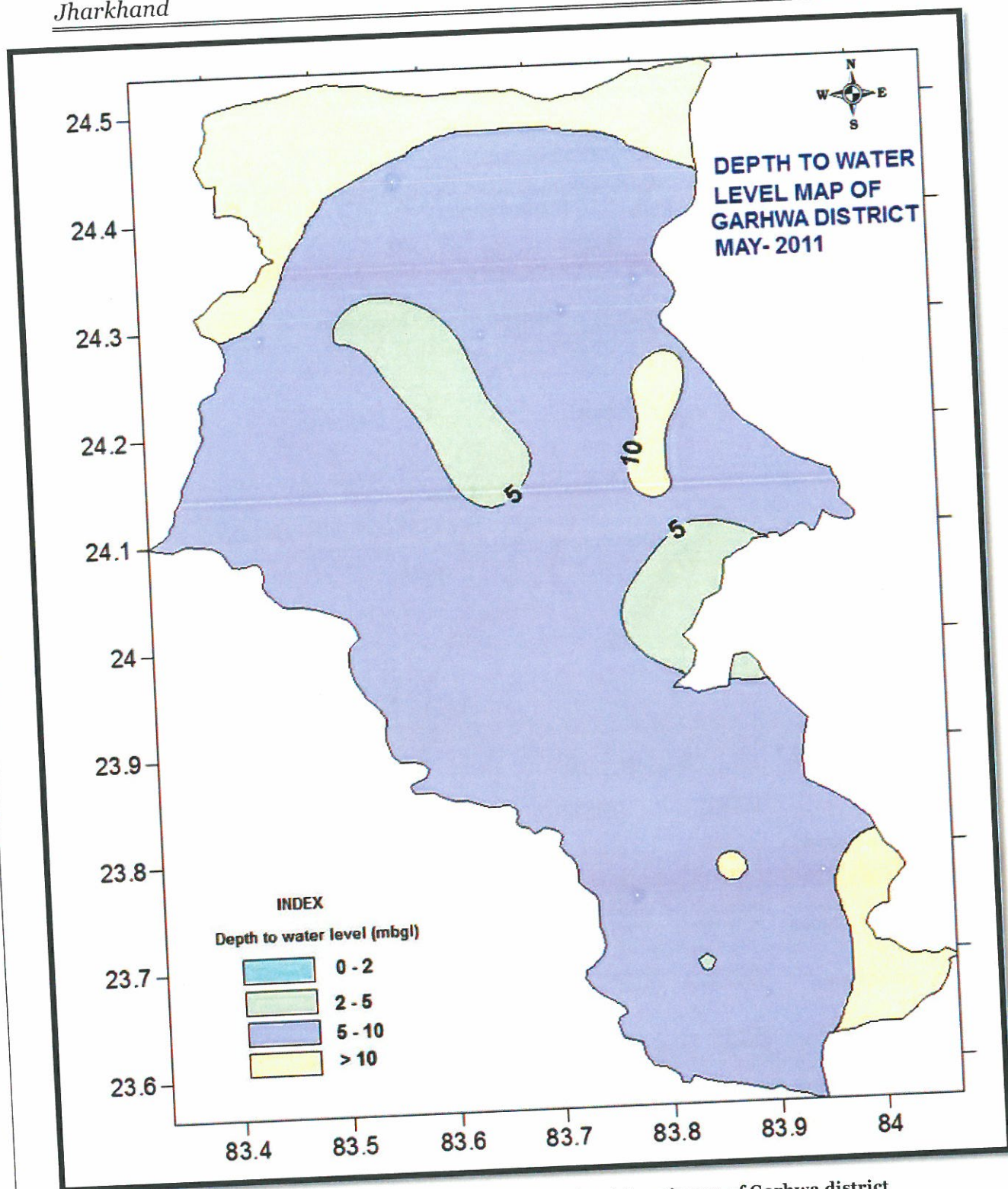


Figure 3-5 : Pre- Monsoon depth to water level (2011) map of Garhwa district
 (Source: Central Ground Water Board, Garhwa)



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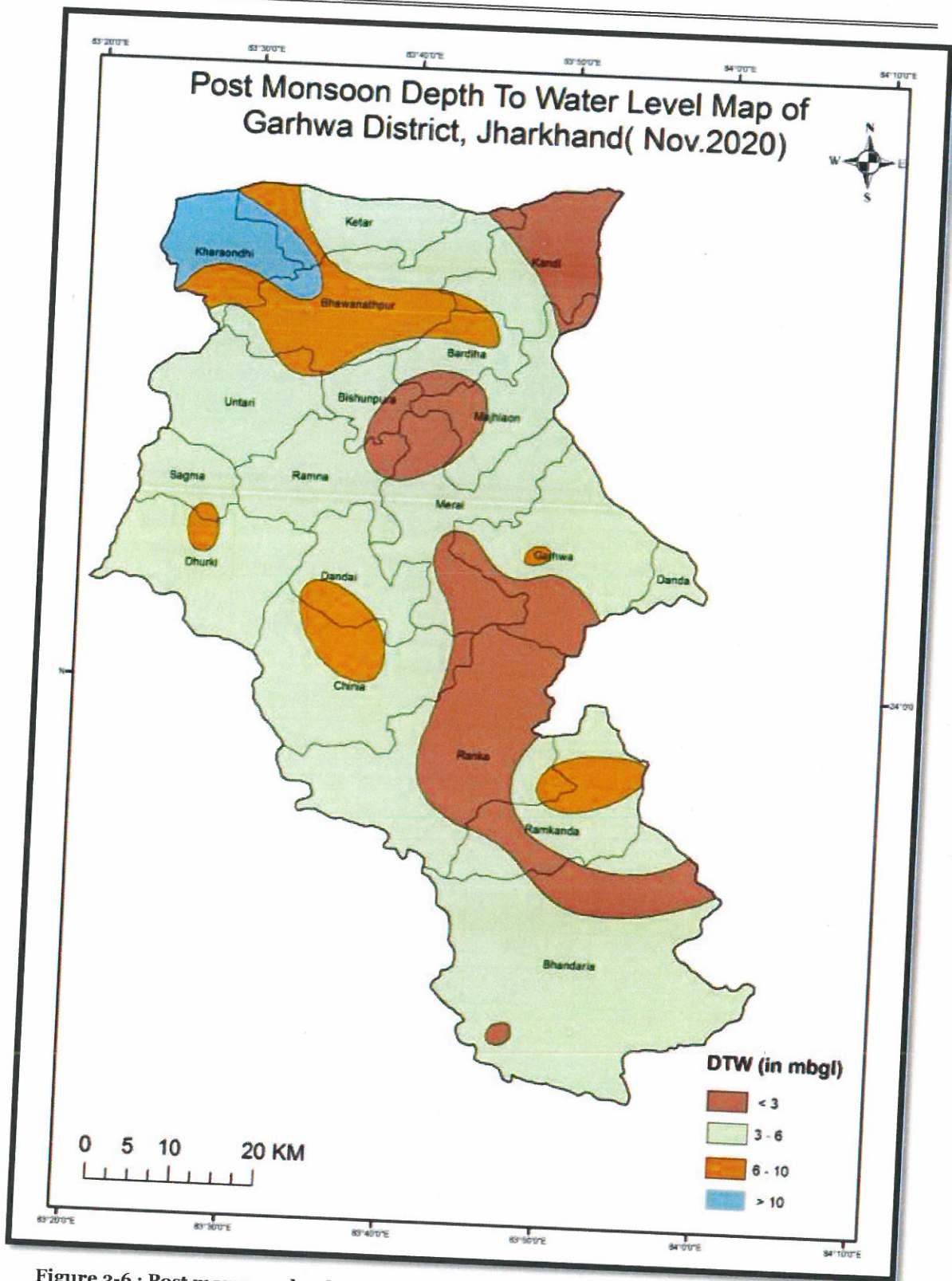
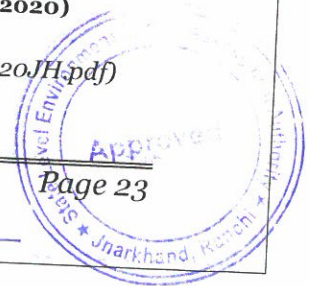


Figure 3-6 : Post monsoon depth to water level map of Garhwa district (Nov. 2020)

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

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3.2.6 Ground Water Development:

There is sufficient scope of ground water for drinking and irrigation purpose in the district. The shallow and medium dug wells are suitable for extraction structures in the area to meet the increasing demand of domestic water supply and ground water irrigation. The overall stage of ground water development (as per March'2011) in the district is 36.15%.

Construction of dug cum borewell structure is also suitable for enhance the yield of dug wells. The ground water resources of the district can be developed as substantial ground water resources which are available. Maintenance of Dug cum borewell and shallow tube wells will be done by local bodies with the help of mechanics and electricians in each block. The potential available for the ground water development considering the ground water draft has been worked out as per norms of Ground Water Estimation Committee 1997. The details of ground water recharge net annual draft, net ground water balance and stage of ground water development has been evaluated.

Table 3-3 : Stage of ground water development of Garhwa District as on 31st March 2009(Ha-m)

Sl. No	Assessment Unit/ District	Command/Non-Command area Total	Total Ground Water Recharge	Natural Discharge during Non Monsoon Season	Net Ground Water Availability	Existing Gross Ground Water Draft For all Uses	Stage of Ground Water Development
1	Bhandaria	6633.42	737.296	86.81	824.10	127.58	5768.55
2	Bhawnathpur+ Kandi	5882.81	1301.70	285.81	1587.51	419.50	4161.60
3	Chinia	1308.98	309.95	51.91	361.86	76.29	922.73
4	Dandai	982.32	382.80	83.97	466.77	123.41	476.11
5	Dhurki	1996.89	957.70	111.79	1069.49	164.30	874.11
6	Garhwa	3863.38	1431.62	253.25	1684.88	368.80	2062.96
7	Kharaundi	919.59	277.94	68.84	346.78	101.18	540.47
8	Majhiaon	1468.15	593.46	143.94	737.40	211.56	663.13
9	Meral	1821.11	656.56	169.09	825.65	248.51	916.03
10	Nagaruntari	1288.74	570.72	136.22	706.94	200.21	517.81
11	Ramkanda	1286.09	197.66	57.01	254.68	83.80	1004.63
12	Ramna	1482.63	1071.48	138.94	1210.42	204.20	206.94
13	Ranka	2138.91	768.6	122.68	891.28	180.30	1190.01
	Total	31073.03	9257.492	1710.26	10968	2509.65	19305.88

(Source: Central Ground Water Board, Garhwa)

Ground Water Quality: Chemical Quality of water is very important from the agriculture and public health point of view. The chemical constituents of water should



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be within the prescribed limits to avoid any harmful effect of crops and general health of local population.

The available chemical analyzed data reveals that ground water of the district is mainly alkaline in character (PH – 8.3). The chemical constituents are within the tolerance limit as per the drinking water norms.

a) Drainage System

The district is forming Sone sub basin of the Upper Ganga basin. Hydrologically the area is very interesting. The river North Koel is the main river of the district, which flows south to north direction and forms north – east boundary of the district. The river Sone flows from west to east direction and forms the northern boundary of the district. One another major river Kanhar flows from North West to south east direction and forms the south west boundary of the district. The tributaries of the main river i.e. South Koel are flowing almost west to west direction. All these drainage is characterized by rapid surface run – off. All these rivers are seasonal in nature. The drainage pattern of the district is dendritic. Drainage map of the district is shown in 3-7.

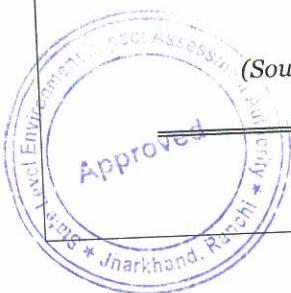
(Source: http://cgwb.gov.in/AQM/NAQUIM_REPORT/Jharkhand/GARHWA%20JH.pdf)





Figure 3-7 : Drainage map of Garhwa district

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



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• **Floods in district Garhwa:**

The general line of drainage is from south to north towards the river Koyal and Sone. Koyal forms the eastern boundary and Sone forms northern boundary of the district. There are also a host of smaller streams, most of which are from mountain currents with rock stream beds. Other important rivers of the district are Danro, Sarsatiya, Tahale, Annaraj, Urea, Bai Banki, Bellaiti, Pando, Biraha, and Sapahi. The river North Koel is the main river of the district, which flows south to north direction and forms north – east boundary of the district.

Distribution of the vulnerable and less vulnerable flood prone districts are shown in the below figure.

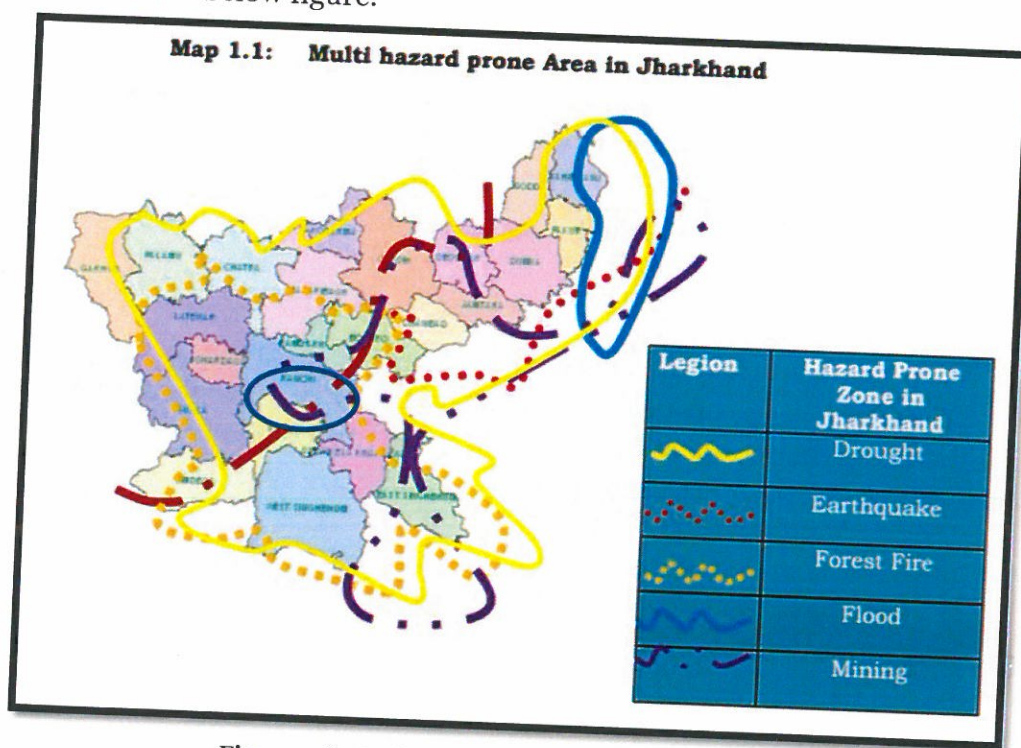


Figure 3-8 : Multi hazard prone area in Jharkhand

(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, Garhwa is non-flood prone district of Jharkhand.

b) Seismicity

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



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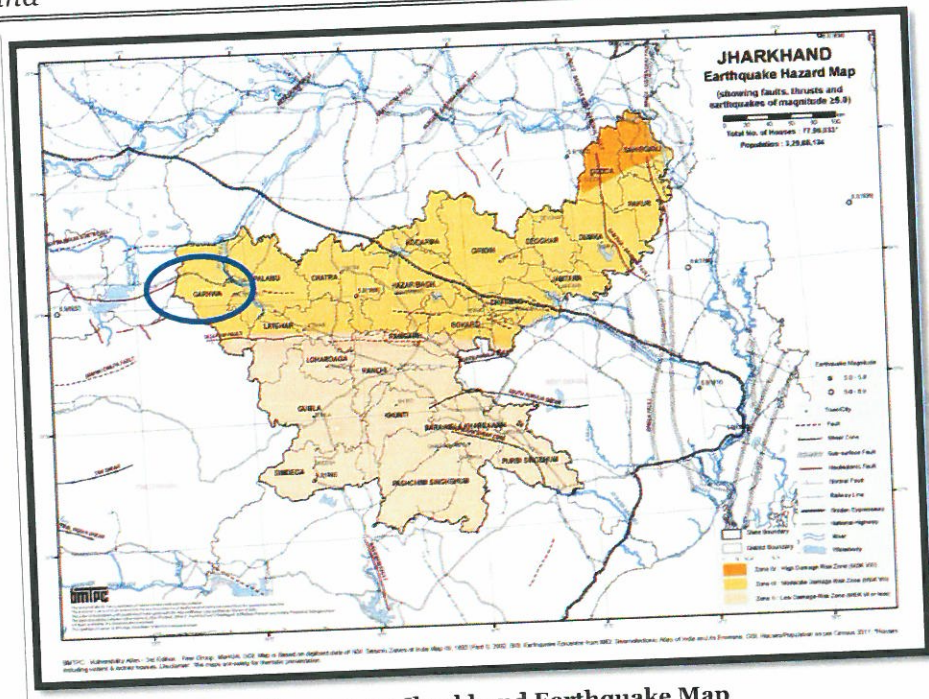


Figure 3-9 : Jharkhand Earthquake Map

(Source: <https://bmtpc.org/DataFiles/CMS/file/VAI2019/eq-jh.html>)

c) Flora

The forest cover constitutes over 45% of the total area. The Common trees in the district are Khair, Kadamb, Bel, Kathal, Neem, Semal, Kachnar, Shisham, Jamun, Bargad, Sal, Peepal, Mango, Arjun etc.

d) Fauna

A map showing Wildlife Protect areas in Jharkhand state are furnished which depicts there is no Wildlife Protect area in Garhwa District.



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District Survey Report, Sand Mineral
Garhwa District
Jharkhand

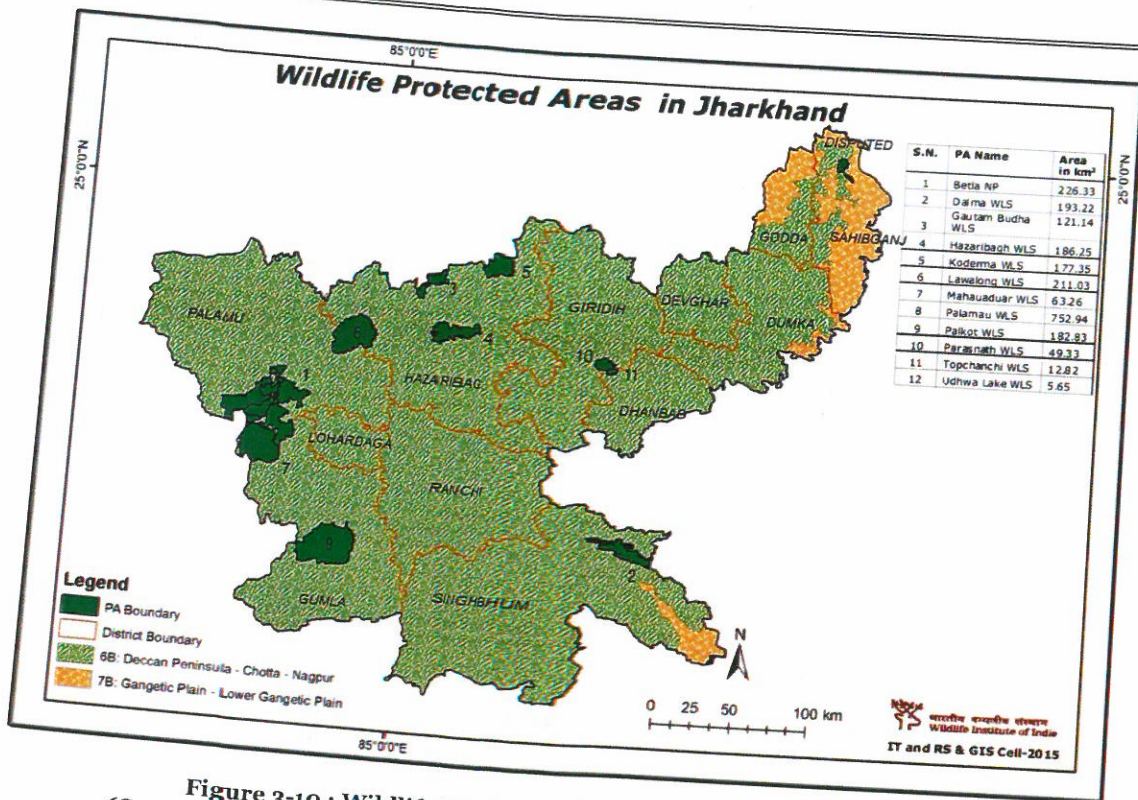


Figure 3-10 : Wildlife Protected area in Jharkhand District
(Source: http://wiienvi.nic.in/Database/Maps_PAs_1267.aspx)

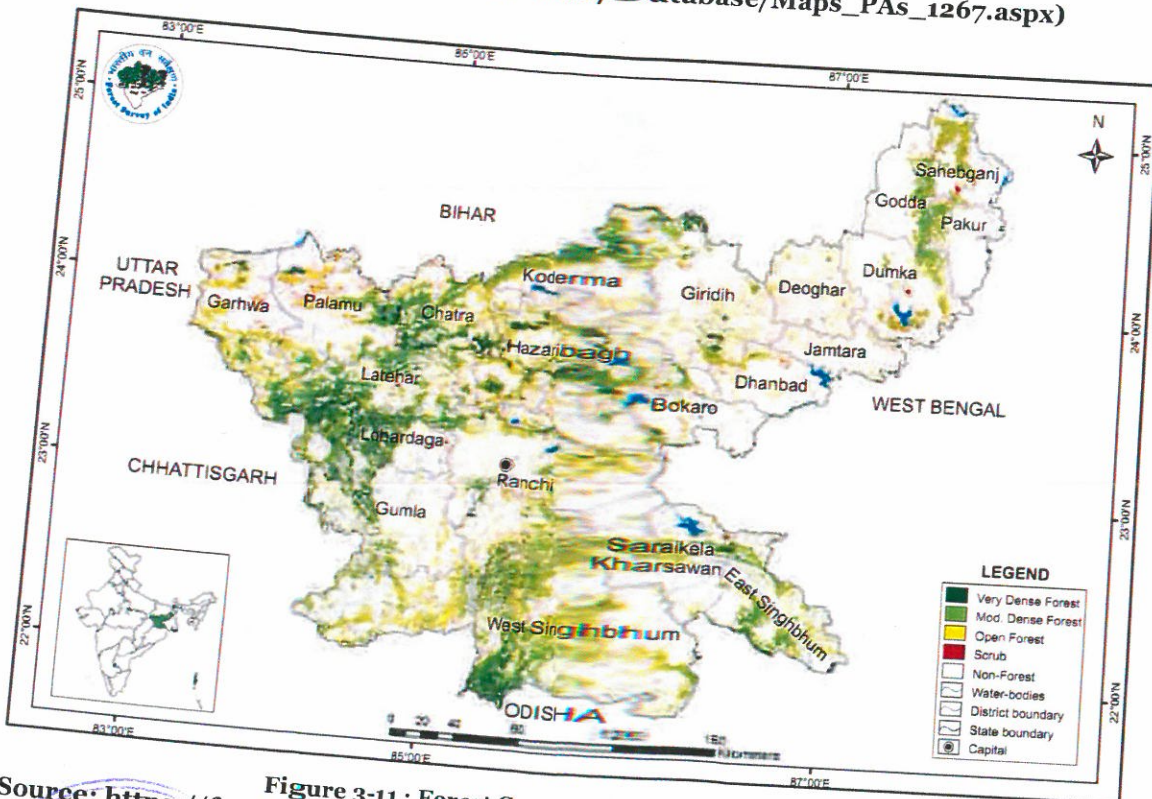
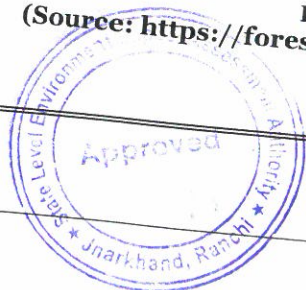


Figure 3-11 : Forest Cover Map of Jharkhand
(Source: https://forest.jharkhand.gov.in/Reports_2017/forestcovermap.aspx)



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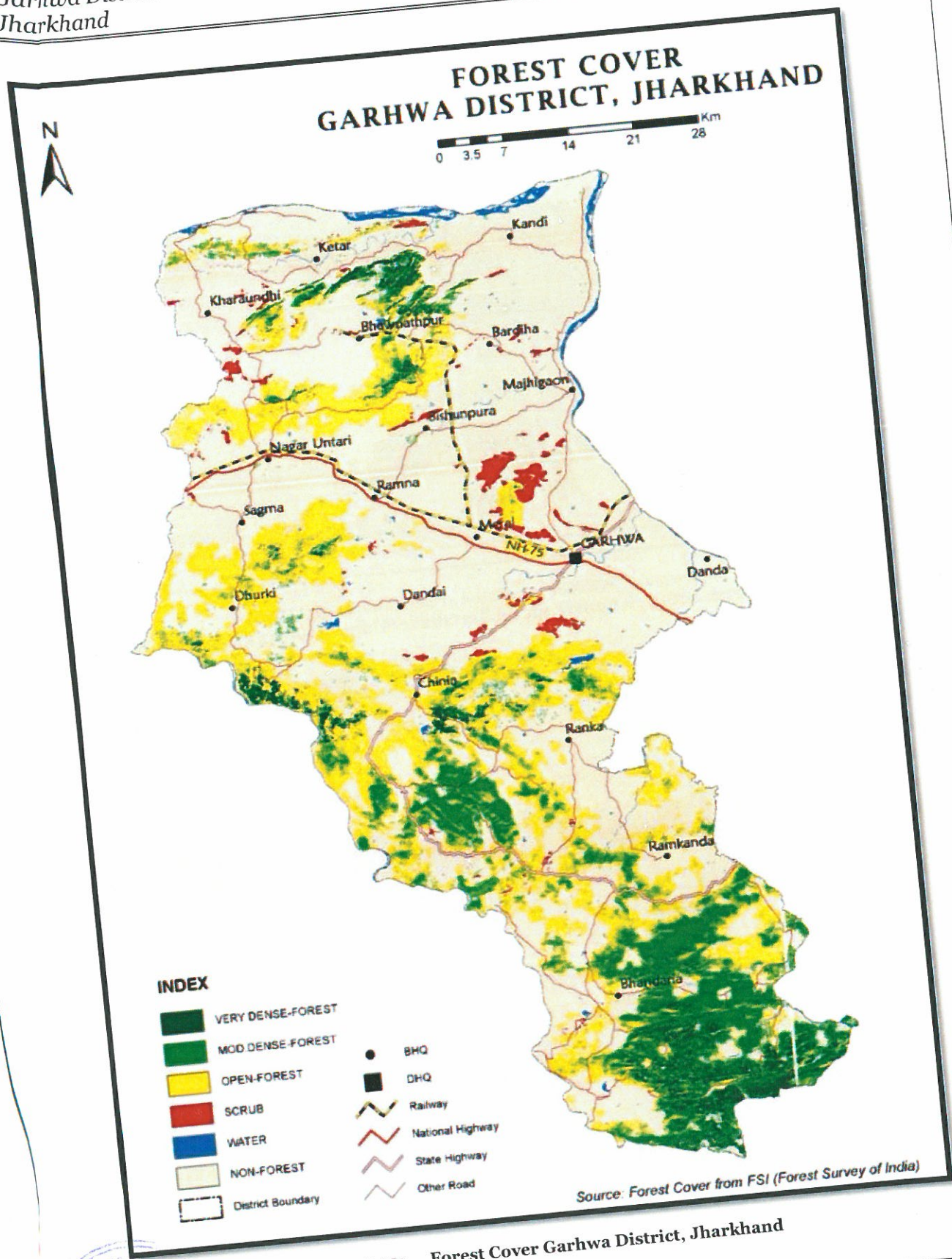


Figure 3-12: Forest Cover Garhwa District, Jharkhand



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4 Physiography of the district

4.1.1 General Landforms

The district provides diverse physiographic features because northern part has relatively homogenous land formed by river Son and the southern portion is hilly and undulating. In the southern portion the land is more dissected and narrow valleys are found. Because of that smaller plain associated with rivulets are found. The northern portion has comparatively larger plains subdivided into Tanrs and Dons which provide contrasting landscape than that of the southern region. The general slope is from south to north.

4.1.2 Soil and rock pattern

There is a soil variation in the district. The soils of the district can broadly be grouped into three classes: -

- a) Heavy Clays: This soil is locally known as Kewal Soil. This soil becomes hard when dry and sticky when wet. This soil can hold moisture for a longer period and as a result considered to be favorable for Rabi crops.
- b) Sandy Soil: This soil is locally known as Balsundar and consists of coarse sand to a large extent and facilitates production of Paddy, Fruits and vegetables.
- c) Loamy Soil: This soil is locally name as Dorasa and consists of sand and clay. This soil is suitable for growing sugarcane.



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5 Land use pattern of the district:

There is heterogeneity in the soils of the area. The soils of the district are light grey and fine textures in nature.

Forest	44.58 %
Net sown area	14.71 %
Barren and unculturable waste	5.77 %
Non agriculture use	4.54 %
Orchards	0.53 %
Pasture	0.48 %
Culturable wasteland	1.54 %
Current and other fallow	27.85 %

Source: Fertilizer and Agriculture Statistics, Eastern Region (2003-2004)

A) Forest detail of the area

In Garhwa district more than 40% area of the total land area is under forest. Forest is big sources of revenue of the district. Many of the village of this district lies in thick forest area. Garhwa district lies partially under the rain shadow area.

b) Agriculture & Irrigation

Garhwa is a largely agricultural district, with majority citizens engaging themselves in agriculture and allied activities. Most parts of the district are full of forests and stones. The cultivable land in the district can be divided into two parts namely – Upper land and Lower land. The lands situated on the banks of rivers are fertile and one can get good crop even after using lesser amount of fertilizers in these lands. But the upper land is barren and a huge amount of fertilizers and irrigation is required for cultivation in these lands. Rabi and Kharif crops are generally sown here. Irrigation facility is not adequate in this district due to hilly terrain. However, there are small natural rivulets, which are generally used for irrigation.

c) Mining

The mineral resources of Garhwa district playing massive role in industrial, social and economic development of the district. Available mineral resources in the district is given below:

- Sand
- Stone
- Coal
- Limestone
- Dolomite
- Fertilizers



➤ Dimensional Stone/Decorative Stone

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 North Koel, Banki, Kanhar, Sone River etc.



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6 Geology

The geological formation of the Garhwa district comprise mainly rocks of Archaean, Vindhyan and Gondwana ages, the last cut by dykes of Deccan trap age. The Archaean rocks include both schists of Dharwar age and gneisses and granites. The schists, mainly horn-blendic and biotitic, are the oldest rocks of the area and occur as parallel and lenticular bands in the gneisses. The schists are intruded by epidiorites, amphibolites, and gneisses. Garnetiferous illimanite-graphite-schists, similar to the Khondalites, also occur near Uchri. Smaller patches of these rocks are found in the manner of inclusions in the most prevalent and the biotite and sillimanite schists are rare. Calc-silicate rocks and crystalline limestones of Dharwar age are largely developed in certain areas. Geologically much of the district is yet unexplored for deposits such as those of Coal, Graphite, Dolomite, feldspar, limestone and clays, etc.

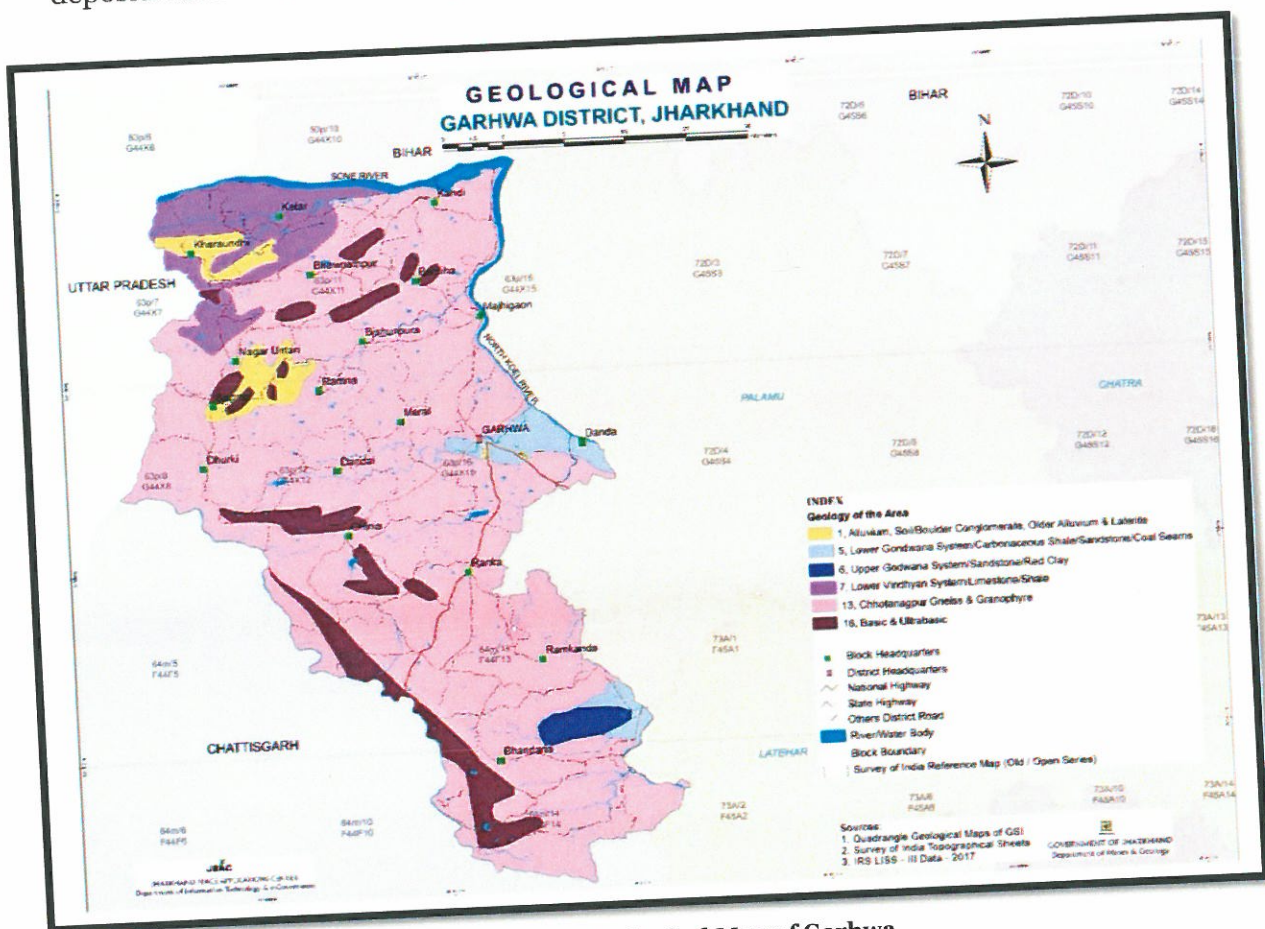


Figure 6-1:- Geological Map of Garhwa



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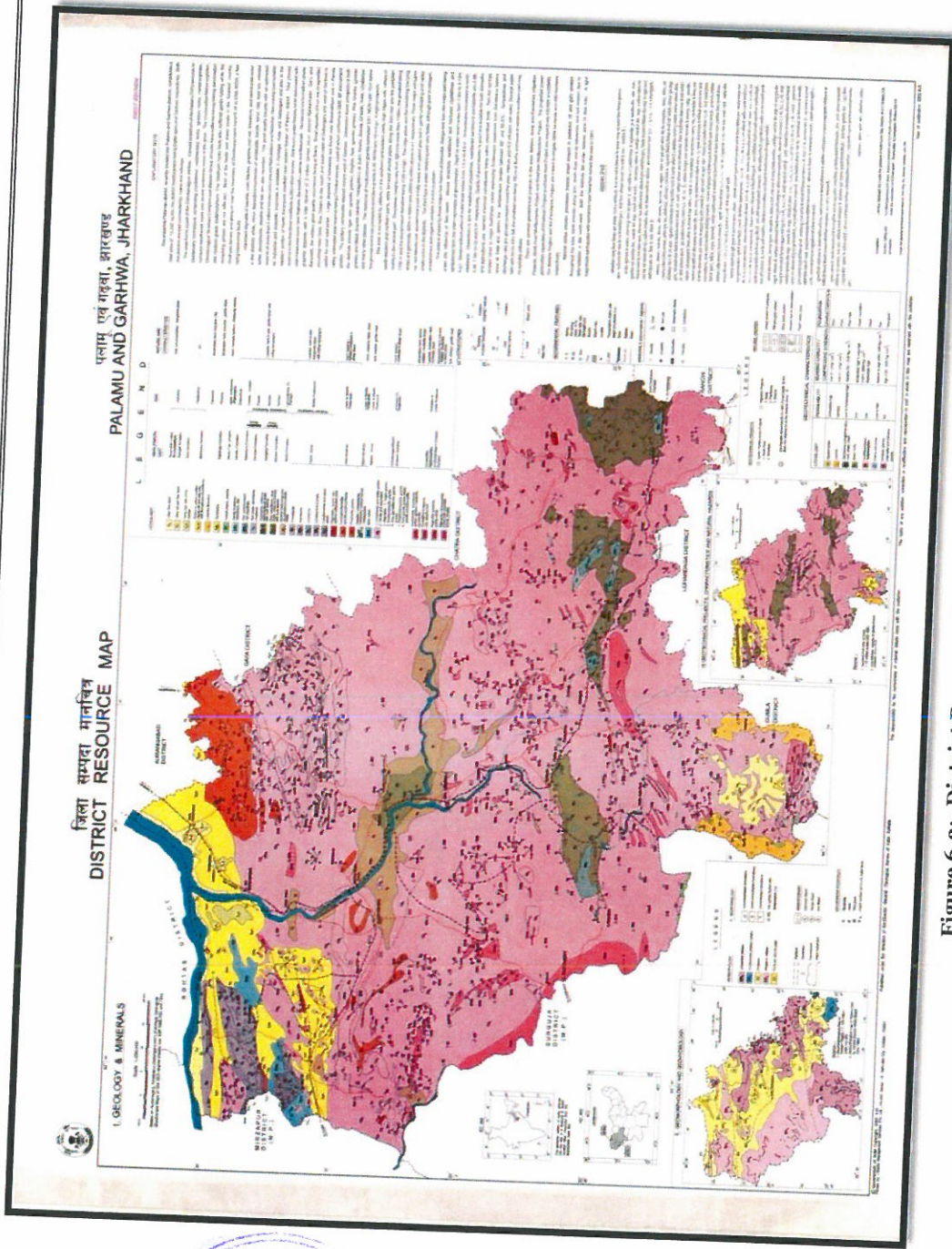


Figure 6-2:- District Resource Map, Palamu & Garhwa, Jharkhand



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7 Mineral wealth

The mineral resources of Garhwa district playing massive role in industrial, social and economic development of the district. The district holds good resources for Iron ore, Graphite, Limestone etc. as per GSI 2002.

Available minor mineral resources in the district are:

- Sand
- Stone
- Coal
- Limestone
- Dolomite
- Fertilizers
- Dimensional Stone/Decorative Stone.

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 Sone, Kanhar and Koel River.

7.1 **Overview of mineral resources**

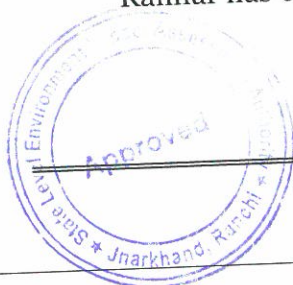
The mineral resources of the district whose categorization and estimation have been done are furnished in this section.

7.2 **Details of Resources**

A) Sand and other riverbed minerals: **i) Drainage System**

The general line of drainage is from south to north towards the Koel River and Sone River. Koel forms the eastern boundary and Son forms northern boundary of the district. Other important rivers of the district are Danro River, Sarsatiya River, Tahale River, Annaraj River, Urea River, Bai Banki River, Bellaiti River, Pando River, Biraha River and Sapahi River. The river North Koel is the main river of the district, which flows south to north direction and forms north – east boundary of the district. Due to its geographical formation Garhwa District is rich in water resources.

The district is drained by these rivers with a few minor tributaries. The North koel and Sone River are having I, II and III order of tributaries whereas the river Kanhar has only II and III order tributaries.



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All these tributaries show dendritic to sub-dendritic drainage pattern typical of granitic terrain. The rivers of the district show structurally controlled pattern. The drainage here is highly dissected in crisscross fashion. The general trend of the drainage is from SE-NW.

Table 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	North Koel River	48.54	1.187
2	Sone River	60.10	1.231
3	Kanhar River	15.50	0.643

Table 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	North Koel River	52	Palamau hills in Jharkhand	377m
2	Sone River	49	Amarkantak Madhya Pradesh	1048m
3	Kanhar River	94	Gidha Dhodha on Khundia Plateau	600m

ii) **Annual deposition of riverbed minerals**

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

A. **Geomorphological studies**

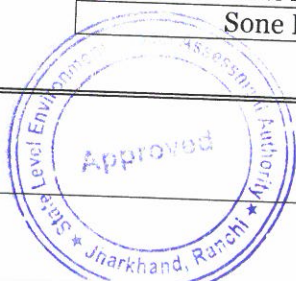
Geomorphological characteristic of a river is foremost factor for annual deposition of sedimentary load. The study includes following parameter:

i) **Place of Origin**

Details of origin of rivers of Garhwa District is furnished below.

Table 7-3:- Place of Origin of important rivers and streams

Name of the River or Stream	Place of origin
Koel River	Palamau hills in Jharkhand
Sone River	Amarkantak Madhya Pradesh



Name of the River or Stream	Place of origin
Kanhar River	Gidha Dhodha on Khundia Plateau

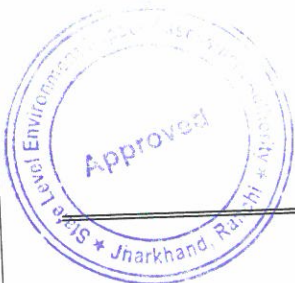
ii) Catchment Area

The Garhwa district is mainly drained by Koel, Sone and Kanhar Rivers 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 Garhwa district along with the distribution of the section lines are shown in figure 7.1.



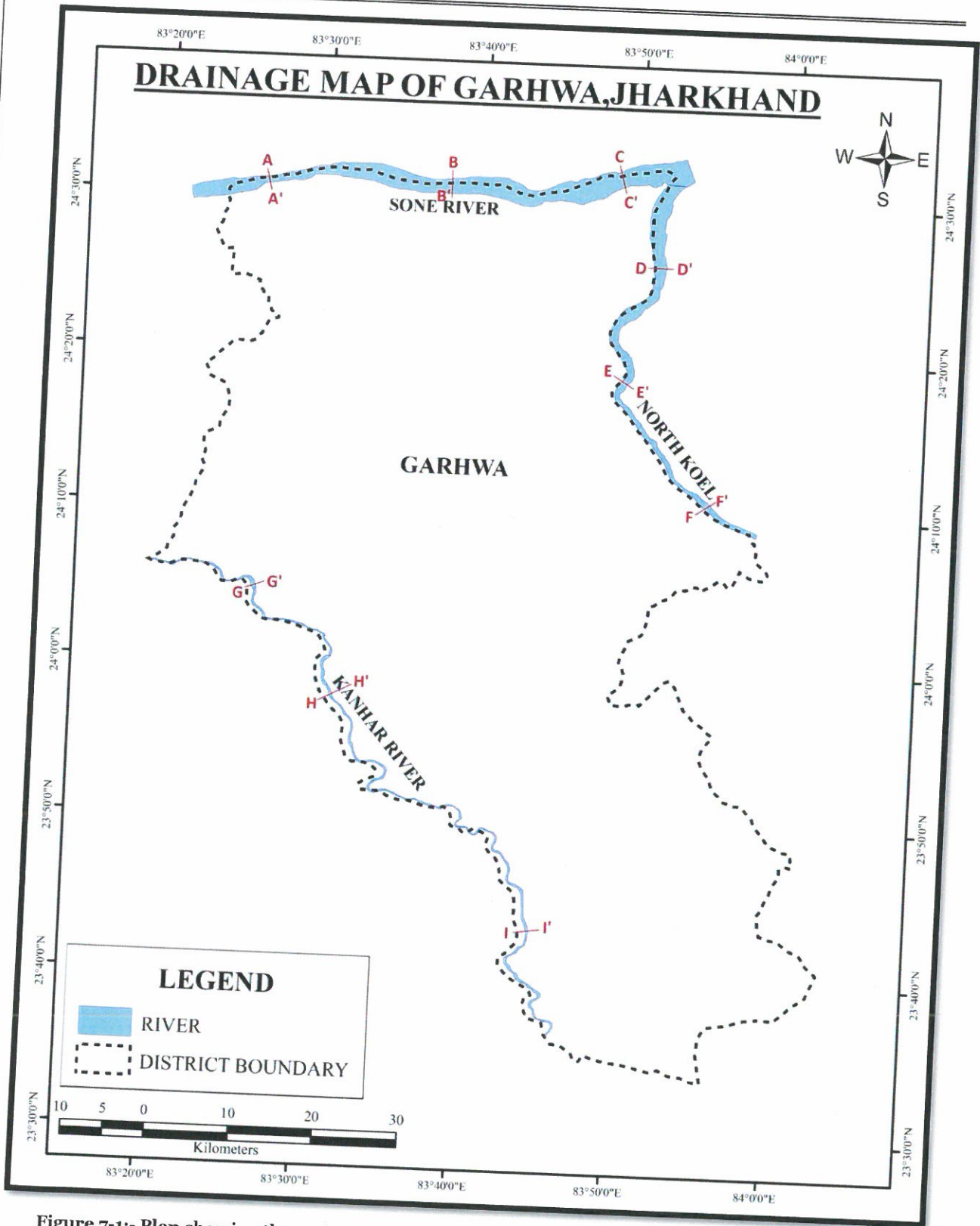


Figure 7-1:- Plan showing the major rivers along with the distribution of Section Lines, Garhwa District, Jharkhand



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District Survey Report, Sand Mineral
 Garhwa District
 Jharkhand

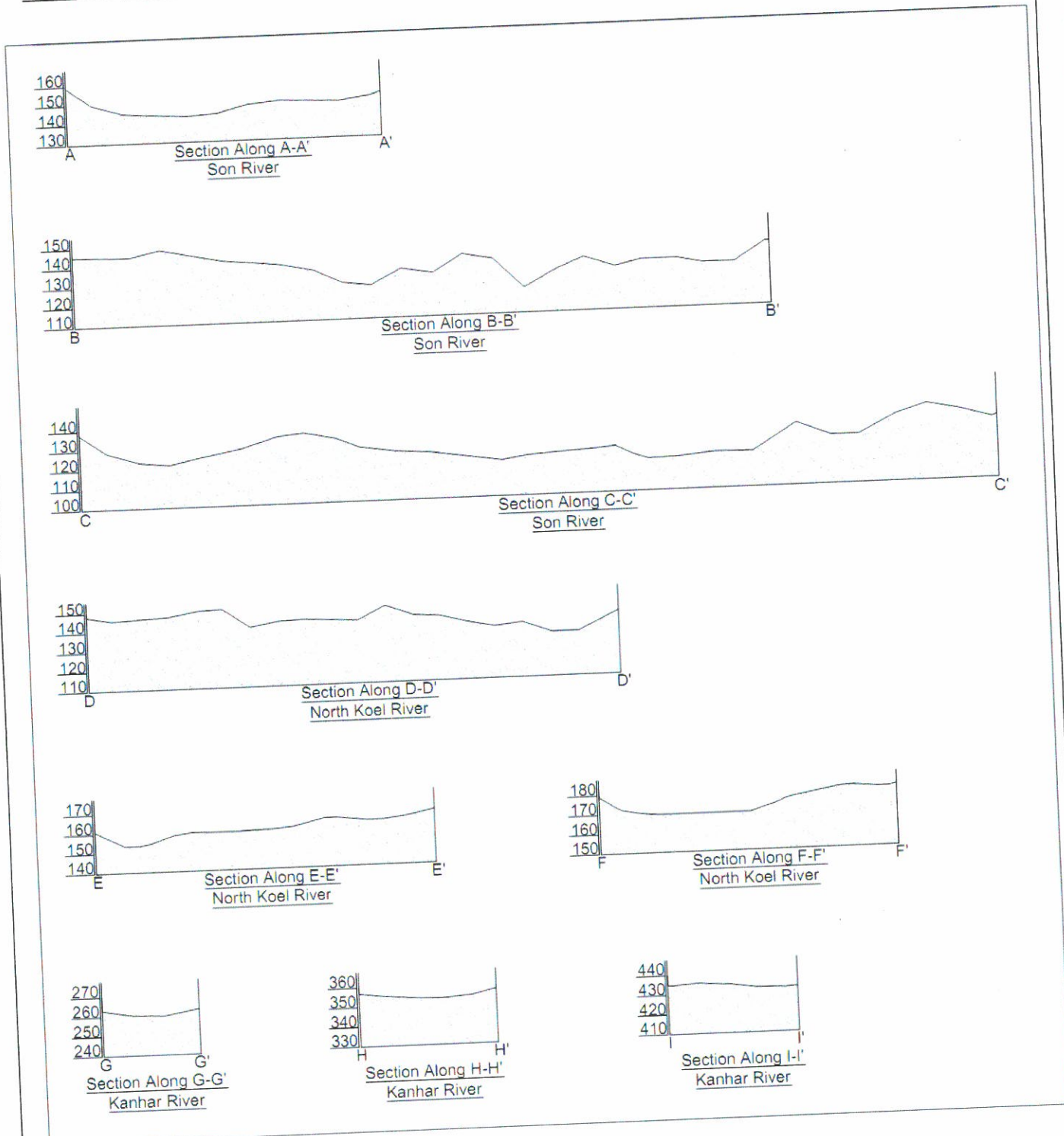


Figure 7-2:- Cross Section



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iv) Annual deposition factor

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

1. Process of deposition

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

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

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

Deposition of cohesive sediments: The cohesion of sediment occurs with the small grain sizes associated with silts and clays, or particles smaller than 4Φ or $62.5 \mu\text{m}$. 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.



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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



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

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

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

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

Dendy Bolton formula is often used to calculate the sedimentation yield. But use of these equations to predict sediment yield for a specific location would be unwise because of the wide variability caused by local factors not considered in the 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,



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replenishment or sediment deposition quantities can be estimated in the following ways as given below:

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

A. Replenishment estimation

Sedimentation in any river is dependent on sediment yield 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 collection:

Field data collections 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 DGPS at the river site.



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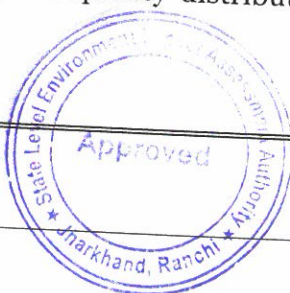
District Survey Report, Sand Mineral
Garhwa District
Jharkhand



Figure 7-3:- Site View of Field Survey

- **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.



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- **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 Garhwa district are Koel, Sone and Kanhar River. Planning has been done for systematic sand mining in the rivers.

Altogether 109 sand bars have been identified during pre-monsoon period. Out of the total 99 Ghats, 70 are falling in Kanhar River, 29 ghats are falling on Sone River and rest 10 ghats on North Koel River.

During post-monsoon period, total 92 sand ghats identified. Out of the total 82 Ghats, 72 are falling in Kanhar River, 10 ghats are falling on Sone River and rest 10 ghats on North Koel River.

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.



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*District Survey Report, Sand Mineral
Garhwa District
Jharkhand*

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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District Survey Report, Sand Mineral
Garhwa District
Jharkhand

Table 7-4:- Estimation of Sand Resources in Pre-monsoon period & Post monsoon period in sand bars

S L No	Pre monsoon				Post monsoon				Difference in Sandbar (Mcum)			
	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 Kanhar River												
1	PRE_GW_KH_01	247	4437.746776	2	0.009	1	PO_GW_KH_01_02	247.5	18489.17726	2	0.037	0.028
2	PRE_GW_KH_02	246	7944.389521	2	0.016	2	PO_GW_KH_03	264.5	59313.08475	2	0.119	-0.016
3	PRE_GW_KH_03	264	37128.06838	2	0.074	3	PO_GW_KH_04	263.5	24941.05904	2	0.050	0.044
4	PRE_GW_KH_04	263	9396.206347	2	0.019	4	PO_GW_KH_05		560191.3896	2	1.120	0.031
						5	PO_GW_KH_5A		13015.01784	2	0.026	0.816
						6	PO_GW_KH_5B		8004.15679	2	0.016	0.026
						7	PO_GW_KH_5C		9715.872274	2	0.019	0.016
						8	PO_GW_KH_5D	277.5	29190.5343	2	0.058	0.019
						9	PO_GW_KH_5E		9412.848228	2	0.013	0.058
						10	PO_GW_KH_5F		6484.82576	2	0.015	0.013
						11	PO_GW_KH_5G		7683.915531	2	0.021	0.015
						12	PO_GW_KH_5H		10381.85764	2	0.021	0.021
						13	PO_GW_KH_06	286.5	56621.1482	2	0.113	0.036
						14	PO_GW_KH_07_08	285.5	165785.6877	2	0.332	0.144
						15	PO_GW_KH_09		8467.904203	2	0.017	-0.015
						16	PO_GW_KH_9A	284.5	8723.18685	2	0.017	-0.093
						17	PO_GW_KH_9B		2404.50036	2	0.005	0.017
5	PRE_GW_KH_05	277	152334.8765	2	0.305							0.005
6	PRE_GW_KH_06	286	38592.14591	2	0.077							0.005
7	PRE_GW_KH_07	285	93786.97808	2	0.188							0.005
8	PRE_GW_KH_08	282	7681.334183	2	0.015							0.005
9	PRE_GW_KH_09	284	55120.58282	2	0.110							0.005

District Survey Report, Sand Mineral
Garhwa District
Jharkhand

Pre monsoon						Post monsoon						
SL No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum	SL No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum	Difference in Sandbar (Mcum)
10	PRE_GW_KH_10	300	10545.84137	2	0.021	18	PO_GW_KH_9C		1448.231053	2	0.003	0.003
11	PRE_GW_KH_11	299	11389.76845	2	0.023	19	PO_GW_KH_10_11_12	300.5	139814.6664	2	0.280	0.259
12	PRE_GW_KH_12	300	55723.18447	2	0.111	20	PO_GW_KH_12A	300.5	6170.987385	2	0.012	-0.023
13	PRE_GW_KH_13	304	25026.18676	2	0.050	21	PO_GW_KH_12B	300.5	14703.0062	2	0.029	-0.111
14	PRE_GW_KH_14	301	42177.26945	2	0.084	22	PO_GW_KH_13	304.5	27783.84676	2	0.056	0.012
15	PRE_GW_KH_15	305	20274.14086	2	0.041	23	PO_GW_KH_14	301.5	29724.32394	2	0.059	0.029
16	PRE_GW_KH_16	304	7707.421392	2	0.015	24	PO_GW_KH_15	305.5	23611.60269	2	0.047	0.006
17	PRE_GW_KH_17	303	6709.47997	2	0.013	25	PO_GW_KH_16	304.5	20608.8199	2	0.041	-0.025
18	PRE_GW_KH_18	302	24313.55917	2	0.049							0.007
19	PRE_GW_KH_19	370	11320.61942	2	0.023							0.026
20	PRE_GW_KH_20	368	18769.11351	2	0.038	26	PO_GW_KH_19	370.5	9905.553042	2	0.020	-0.013
21	PRE_GW_KH_21	370	10305.7981	2	0.021	27	PO_GW_KH_20	368.5	20618.69922	2	0.041	-0.049
22	PRE_GW_KH_22	371	8751.349352	2	0.018							-0.003
23	PRE_GW_KH_23	374	110312.3641	2	0.221							0.004
24	PRE_GW_KH_24	377	84144.85145	2	0.168	28	PO_GW_KH_23					-0.021
25	PRE_GW_KH_25	380	105355.1602	2	0.211	29	PO_GW_KH_23A	374.5	113166.1141	2	0.226	-0.018
26	PRE_GW_KH_26	384	123769.3395	2	0.248							0.006
27	PRE_GW_KH_27	383	39039.03666	2	0.078	30	PO_GW_KH_25					0.091
28	PRE_GW_KH_28	385	45658.407	2	0.091	31	PO_GW_KH_26	380.5	105063.6353	2	0.210	-0.168
						32	PO_GW_KH_27	384.5	122713.5249	2	0.245	-0.001
						33	PO_GW_KH_28	383.5	39656.74953	2	0.079	-0.002
								385.5	45034.72802	2	0.090	0.001
												-0.001

Approved
Level Engineer
Jharkhand, Ranchi

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District Survey Report, Sand Mineral
Garhwa District
Jharkhand



S.L No	Pre monsoon					Post monsoon					Difference in Sandbar (Mcum)	
	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
29	PRE_GW_KH_29	388	14259.77856	2	0.029	34	PO_GW_KH_29	388.5	14562.21182	2	0.029	0.001
30	PRE_GW_KH_30	390	74786.91825	2	0.150	35	PO_GW_KH_30	390.5	73653.0922	2	0.147	-0.002
31	PRE_GW_KH_31	395	10539.27168	2	0.021	36	PO_GW_KH_32	399.5	14646.75518	2	0.029	-0.003
32	PRE_GW_KH_32	399	16278.22554	2	0.033	37	PO_GW_KH_33	397.5	24098.10823	2	0.048	-0.001
33	PRE_GW_KH_33	397	24711.04147	2	0.049	38	PO_GW_KH_34	401.5	47558.28353	2	0.095	0.001
34	PRE_GW_KH_34	401	46924.3872	2	0.094	39	PO_GW_KH_35	400.5	27875.35738	2	0.056	0.001
35	PRE_GW_KH_35	400	27488.68745	2	0.055	40	PO_GW_KH_36	399.5	25715.22372	2	0.051	0.004
36	PRE_GW_KH_36	399	23943.85152	2	0.048	41	PO_GW_KH_37	398.5	18880.10742	2	0.038	0.001
37	PRE_GW_KH_37	398	18424.99949	2	0.037	42	PO_GW_KH_38	402.5	19075.78112	2	0.038	0.004
38	PRE_GW_KH_38	402	16894.38986	2	0.034	43	PO_GW_KH_38A		9319.797783	2	0.019	0.019
39	PRE_GW_KH_39	408	4345.251135	2	0.009	44	PO_GW_KH_39	408.5	7265.347811	2	0.015	0.006
40	PRE_GW_KH_40	405	20208.87408	2	0.040	45	PO_GW_KH_40	405.5	22419.8394	2	0.045	0.004
41	PRE_GW_KH_41	404	6140.653885	2	0.012	46	PO_GW_KH_41	404.5	6448.81825	2	0.013	0.001
42	PRE_GW_KH_42	410	18460.7908	2	0.037	47	PO_GW_KH_43	408.5	52597.07483	2	0.105	0.001
43	PRE_GW_KH_43	408	52185.65563	2	0.022	48	PO_GW_KH_45	417.5	27088.91089	2	0.054	-0.022
44	PRE_GW_KH_44	416	10995.04444	2	0.095	49	PO_GW_KH_46	416.5	42292.2359	2	0.085	-0.041
45	PRE_GW_KH_45	417	47568.21415	2	0.018	50	PO_GW_KH_49	420.5	16513.91304	2	0.033	0.066
46	PRE_GW_KH_46	416	9218.35108	2	0.081	51	PO_GW_KH_49A	420.5	27071.63323	2	0.054	-0.081
47	PRE_GW_KH_47	418	40718.32884	2	0.202							-0.202
48	PRE_GW_KH_48	419	101095.1746	2	0.281							-0.248
49	PRE_GW_KH_49	420	140399.4803	2	0.281							0.054

District Survey Report, Sand Mineral
Garhwa District
Jharkhand

Pre monsoon							Post monsoon						
SL No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum	SL No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum	Difference in Sandbar (Mcum)	
50	PRE_GW_KH_50	418	12090.11182	2	0.024								
51	PRE_GW_KH_51	421	60002.52518	2	0.120	52	PO_GW_KH_51	421.5	67034.44902	2	0.134	-0.024	
52	PRE_GW_KH_52	423	44584.86922	2	0.089	53	PO_GW_KH_51A		33985.81767	2	0.068	0.014	
53	PRE_GW_KH_53	425	34781.20407	2	0.070	54	PO_GW_KH_52	423.5	23755.38668	2	0.048	0.068	
54	PRE_GW_KH_54	430	231354.8301	2	0.463							-0.042	
55	PRE_GW_KH_55	436	33996.03064	2	0.068	55	PO_GW_KH_54	430.5	196267.0897	2	0.393	-0.070	
56	PRE_GW_KH_56	437	47039.2724	2	0.094	56	PO_GW_KH_55	436.5	24860.93588	2	0.050	-0.070	
57	PRE_GW_KH_57	436	24639.41542	2	0.049	57	PO_GW_KH_55A		15245.38141	2	0.030	-0.018	
58	PRE_GW_KH_58	442	36050.40234	2	0.072	58	PO_GW_KH_56	437.5	60474.62476	2	0.121	0.030	
59	PRE_GW_KH_59	444	4784.534919	2	0.010	59	PO_GW_KH_58	442.5	27198.72407	2	0.054	0.027	
60	PRE_GW_KH_60	451	193776.5117	2	0.388							-0.049	
61	PRE_GW_KH_61	463	20768.41387	2	0.042	60	PO_GW_KH_60	451.5	133332.2771	2	0.267	-0.010	
62	PRE_GW_KH_62	462	4686.756231	2	0.009	61	PO_GW_KH_61	463.5	21447.17563	2	0.043	-0.121	
63	PRE_GW_KH_63	461	10602.90396	2	0.021	62	PO_GW_KH_62	462.5	4607.045226	2	0.009	0.001	
64	PRE_GW_KH_64	466	44447.03764	2	0.089	63	PO_GW_KH_63	461.5	10289.7605	2	0.021	0.000	
65	PRE_GW_KH_65	465	12632.12783	2	0.025	64	PO_GW_KH_64	466.5	43097.38499	2	0.086	-0.001	
66	PRE_GW_KH_66	469	27107.25561	2	0.054	65	PO_GW_KH_65	465.5	12286.07401	2	0.025	-0.003	
67	PRE_GW_KH_67	468	144605.6507	2	0.289	66	PO_GW_KH_66	469.5	23530.34783	2	0.047	-0.001	
68	PRE_GW_KH_68	471	34029.48549	2	0.068	67	PO_GW_KH_67	468.5	18413.15897	2	0.037	-0.007	
69	PRE_GW_KH_69	472	46205.15722	2	0.092	68	PO_GW_KH_67A		107424.7055	2	0.215	-0.252	
						69	PO_GW_KH_68	471.5	34269.0172	2	0.069	0.215	
						70	PO_GW_KH_69	472.5	45859.4392	2	0.092	0.000	
												-0.001	

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District Survey Report, Sand Mineral
Garhwa District
Jharkhand



SL No	Pre monsoon				Post monsoon				Difference in Sandbar (Mcum)			
	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum	SL No	Sand Bar_Code	RL (m)		Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum
70	PRE_GW_KH_70	474	76363.73048	2	0.153	71	PO_GW_KH_70	474.5	66059.28221	2	0.132	-0.021
			3937850.817		6.076	72	PO_GW_KH_70A		19709.42971	2	0.039	0.039
									3230388.552		6.461	0.385
Estimation of Sand Resources in Pre monsoon period & Post monsoon period of Sone River												
1	PRE_GW_SN_01	133	2963281.702	2	5.927	1	PO_GW_SN_01	133.5	2127928.915	2	4.256	-1.671
2	PRE_GW_SN_02	134	3409513.21	2	6.819	2	PO_GW_SN_02	134.5	3236195.968	2	6.472	-0.347
3	PRE_GW_SN_03	136	117405.6766	2	0.235							-0.235
4	PRE_GW_SN_04	134	276326.5067	2	0.553							-0.553
5	PRE_GW_SN_05	135	703673.2786	2	1.407							-1.407
6	PRE_GW_SN_06	134	125355.4787	2	0.251							-0.251
7	PRE_GW_SN_07	136	206199.3284	2	0.412							-0.412
8	PRE_GW_SN_08	137	888569.1654	2	1.777							6.517
9	PRE_GW_SN_09	136	321315.7343	2	0.643	3	PO_GW_SN_08_10_13_14_15	137.5	4146875.506	2	8.294	-0.643
10	PRE_GW_SN_10	137	776091.712	2	1.552							-1.552
11	PRE_GW_SN_11	139	2292014.841	2	4.584	4	PO_GW_SN_11_12	139.5	2676494.702	2	5.353	0.769
12	PRE_GW_SN_12	136	211127.4595	2	0.422							-0.422
13	PRE_GW_SN_13	134	364302.8786	2	0.729							-0.729
14	PRE_GW_SN_14	140	103224.6427	2	0.206							-0.206
15	PRE_GW_SN_15	139	883085.3315	2	1.766							-1.766
16	PRE_GW_SN_16	140	1920323.468	2	3.841	5	PO_GW_SN_16_17	140.5	4723169.794	2	9.446	5.606
17	PRE_GW_SN_17	138	2007962.333	2	4.016							-4.016
18	PRE_GW_SN_18	140	1370862.114	2	2.742							-2.742

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District Survey Report, Sand Mineral
Garhwa District
Jharkhand

SL No	Pre monsoon					Post monsoon					Difference in Sandbar (Mcum)	
	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum	SL No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.		Sand Volume in M. Cum
19	PRE_GW_SN_19	141	316742.1027	2	0.633	6	PO_GW_SN_19_20	141.5	3749984.454	2	7.500	6.866
20	PRE_GW_SN_20	142	1785142.613	2	3.570							-3.570
21	PRE_GW_SN_21	141	112250.9073	2	0.225							-0.225
22	PRE_GW_SN_22	142	150829.2468	2	0.302							-0.302
23	PRE_GW_SN_23	142	632124.6262	2	1.264							-1.264
24	PRE_GW_SN_24	145	8161018.486	2	16.322	7	PO_GW_SN_24_25	145.5	9234601.861	2	18.469	2.147
25	PRE_GW_SN_25	147	324441.3547	2	0.649							-0.649
26	PRE_GW_SN_26	146	672115.6927	2	1.344	8	PO_GW_SN_26	146.5	1089176.173	2	2.178	0.834
27	PRE_GW_SN_27	153	631357.7848	2	1.263	9	PO_GW_SN_27_28	153.5	2777232.751	2	5.554	4.292
28	PRE_GW_SN_28	155	1990605.184	2	3.981							-3.981
29	PRE_GW_SN_29	154	203386.5669	2	0.407	10	PO_GW_SN_28_29	154.5	239542.2755	2	0.479	0.072
			33920649.43		67.841				34001202.40		68.002	0.161
Estimation of Sand Resources in Pre monsoon period & Post monsoon period of North Koel River												
1	PRE_GW_NK_01	160	1444121.922	2	2.888	1	PO_GW_NK_01	160.5	1444621.922	2	2.889	0.001
2	PRE_GW_NK_02	161	151612.234	2	0.303	2	PO_GW_NK_02	161.5	152612.234	2	0.305	0.002
3	PRE_GW_NK_03	166	1238406.039	2	2.477	3	PO_GW_NK_03	166.5	1238406.039	2	2.477	0.000
4	PRE_GW_NK_04	172	475999.876	2	0.952	4	PO_GW_NK_04	172.5	476999.876	2	0.954	0.002
5	PRE_GW_NK_05	174	576035.780	2	1.152	5	PO_GW_NK_05	174.5	576035.780	2	1.152	0.000
6	PRE_GW_NK_06	177	108308.633	2	0.217	6	PO_GW_NK_06	177.5	108508.633	2	0.217	0.000
7	PRE_GW_NK_07	180	208922.362	2	0.418	7	PO_GW_NK_07	180.5	208922.362	2	0.418	0.000
8	PRE_GW_NK_08	181	43745.255	2	0.087	8	PO_GW_NK_08	181.5	43745.255	2	0.087	0.000
9	PRE_GW_NK_09	184	222085.398	2	0.444	9	PO_GW_NK_09	184.5	225185.398	2	0.450	0.006



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District Survey Report, Sand Mineral
Garhwa District
Jharkhand

		Pre monsoon					Post monsoon					
SL No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum	SL No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum	Difference in Sandbar (Mcum)
10	PRE_GW_NK_10	186	167240.776	2	0.334	10	PO_GW_NK_10	186.5	167840.776	2	0.336	0.001
			4636478.28		9.27				4642878.28		9.29	0.013

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

Table 7-5:- Sediment Load comparison between Pre- & Post Monsoon periods for different rivers of Garhwa 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 %
Kanhar River	70	72	6.076	6.461	0.385	6%
Sone River	29	10	67.841	68.002	0.161	0%
North Koel River	10	10	9.273	9.286	0.013	0%
All River	109	92	83.18996	83.74894	0.559	1%

Thus, in Garhwa district, about 0.559 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 Garhwa district comes to about 101%.

B. 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.



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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.



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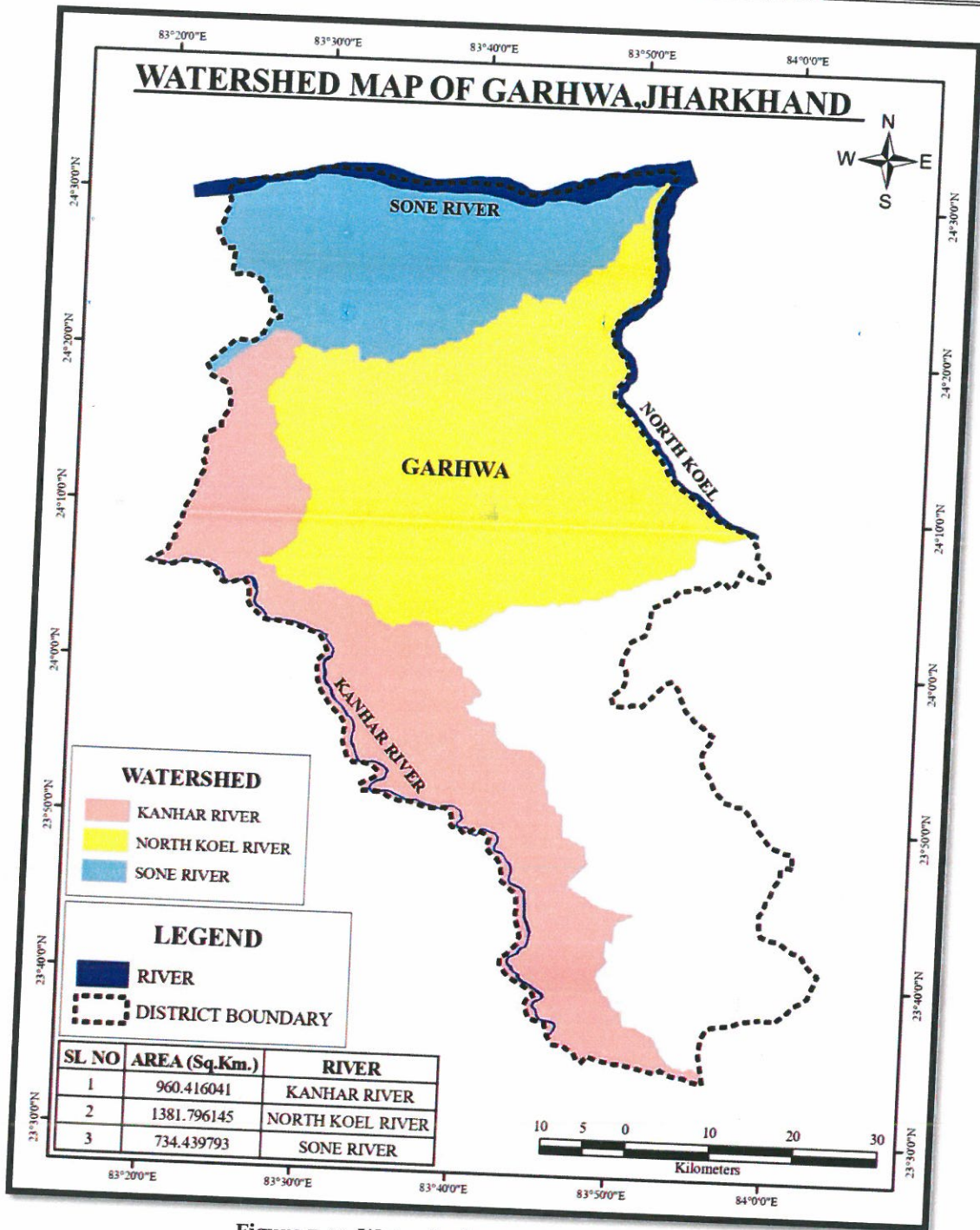


Figure 7-4:- Watershed map of Garhwa District

(Source: https://hydrosheds.org/images/inpages/HydroBASINS_TechDoc_v1c.pdf)

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



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*District Survey Report
Garhwa District
Jharkhand*

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 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;



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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.



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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,

- function
- A_1 = Critical particle mobility factor
 - C_s = Concentration coefficient in the sediment transport
 - 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.



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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):



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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:

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

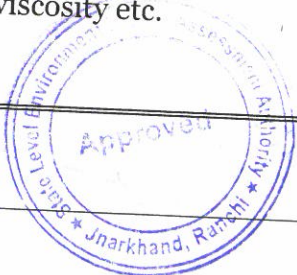
Where,

- 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 27%, as the rainfall in the district is 959.1 mm and the characteristic of the catchment of the district is average in nature.
- Peak flood discharge of the river of the district calculated based on Dicken's formula which is more applicable to north Indian and central Indian catchment. Here Dicken constant C is taken as 12 in present study as per published literature by Saha (2002).
- Bed load transport has not been computed in the regional aspect of the district, as the values are highly dependent on local factors such as particle mobility factor, roughness coefficient, Shear velocity, Mean flow velocity, Kinematic viscosity etc.



*District Survey Report
Garhwa District
Jharkhand*

- 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 7-7:- Replenishment parameter estimated for each river in the district

Estimation parameter	Koel	Sone	Kanhar
Catchment Area (m ²)	1381800000	734440000	960420000
Annual Rainfall (m)	0.96	0.96	0.96
Strange Runoff coefficient (%)	27%	27%	27%
Annual Run-off (m)	0.2112	0.2112	0.2112
Catchment Yield (m ³)	362142144	192482035.2	251706874
Peak Flood Discharge (m ³ /sec)	86003304.28	53536316.59	65467708.88
Flow depth d (m)	0.5	0.8	0.3
Channel width b (m)	250	920	99
Mean velocity v (m/s)	0.04	0.1	0.06
Channel slope S ₀ (m/m)	0.004	0.002	0.003
Sediment Yield (Tons/year)	85966.79	50215.62	63155.78
Estimated Annual Replenishment (in million m ³)	1.60986	0.94037	1.18269

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 7-8:- Year-wise sedimentation rate (tons/km²/yr) for last 5 years of each river

Year	Koel	Sone	Kanhar	Annual Rainfall
2017	186.33	204.78	196.95	452.5
2018	180.57	198.45	190.86	467
2019	159.88	175.71	168.99	523.2
2020	83.12	91.35	87.86	825.3
2021	62.21	68.37	65.76	959.1



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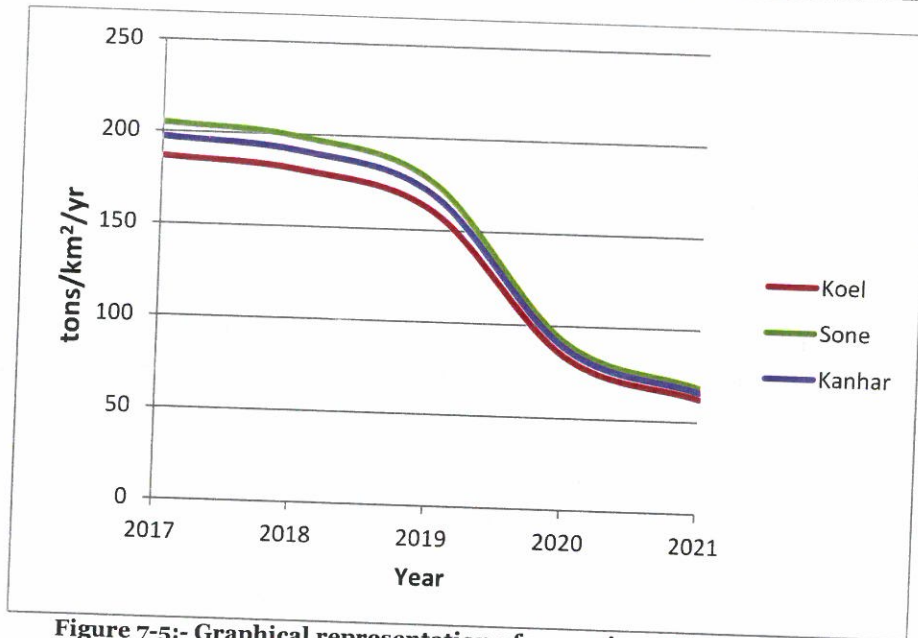


Figure 7-5:- Graphical representation of year-wise sedimentation rate

vi) Total potential of minor mineral in the river bed

The major sand producing rivers of the district are North Koel, Kanhar and Sone. Total potential sand resource of the district is 68.23 Mcum. (Source: Table no 7-9).

B. Geological studies

i) Lithology of the catchment area

Geologically, Garhwa district comprises of mainly rocks of Archaean, Vindhyan and Gondwana ages.

The area forms a part of the Chhotanagpur plateau. A broad spectrum of Archaean (?) Proterozoic to Quaternary formations comprising crystallines, sedimentary rocks, igneous rocks, metamorphites, compact weathered rocks and recent sediments occur in the area. The Unclassified Metamorphites, Chhotanagpur Gneissic Complex and Bijawar Group of rocks have suffered strong folding deformation and medium grade metamorphism. The Vindhyan rocks have also suffered gentle folding while the remaining groups are not affected. Most of the faults and shear zones in the Gneissic country, Vindhyan terrain and along or near the boundary of Gondwana basin trend E-W to ENE-WSW, a few being transverse faults.

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



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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 645.4 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 425.5 mm to 959.1 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

The area lies in the sub-humid region of Chhotanagpur Plateau and enjoys semi-extreme type of climate. The day temperature rises around 40°C during the summers and drops down to around 10°C during the winter.

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.



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District Survey Report
Garhwa District
Jharkhand

For the purpose of estimating mineable mineral potential, the thickness of the sand bar considered extractable based on base flow level. The annual mineable mineral potential is given in Table 7.9.

Table 7-9: Annual deposition of Riverbed minerals

S. 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	KANHAR	14%	1309.22	99.18	2537138.26	2.0	5.1	3.04
2	SONE	45%	23951.14	920.06	26932855.95	2.0	53.9	32.32
3	NORTH KOEL	20%	5225.20	262.06	4642878.28	2.00	9.3	5.57
Total Mineable volume							68.23	40.94

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 7-10:- Resources of Potential Riverbed Mineral

Boulder (Mcum)	Pebbles/Gravel (Mcum)	Sand/White sand (Mcum)	Total Mineable, Mineral Potential (Mcum)
-	-	40.94	40.94

iv) Riverbed Mineral Potential Zones

Table 7-11:- Potential Zone of Riverbed Mineral

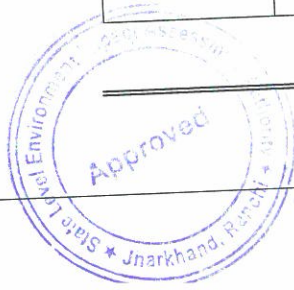
RIVER NAME	ZONE		COORDINATE		LENGTH (MTS)	WIDTH (MTS)	AREA (SQMTS)
			LATITUDE	LONGITUDE			
KANHAR	ZONE_KH_01	5	24° 5' 53.760" N	83° 20' 40.018" E	234.5	93.3	18489.18
		6	24° 5' 50.416" N	83° 20' 47.093" E			
	ZONE_KH_02	7	24° 5' 40.061" N	83° 23' 47.626" E	852.98	104.29	71931.16
		8	24° 5' 20.164" N	83° 24' 6.356" E			
	ZONE_KH_03	9	24° 5' 10.259" N	83° 25' 58.359" E	2103.9	258.01	532814.5
		10	24° 4' 5.282" N	83° 26' 20.513" E			
ZONE_KH_04	11	24° 4' 0.522" N	83° 26' 12.995" E	2128.21	134.18	193624.6	
	12	24° 3' 3.924" N	83° 26' 48.076" E				



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District Survey Report
Garhwa District
Jharkhand

RIVER NAME	ZONE		COORDINATE		LENGTH (MTS)	WIDTH (MTS)	AREA (SQMTRS)
			LATITUDE	LONGITUDE			
ZONE_KH_05		13	24° 2' 35.904" N	83° 27' 7.455" E	2295.81	86.46	150354.6
		14	24° 2' 31.619" N	83° 28' 27.883" E			
ZONE_KH_06		15	24° 2' 28.368" N	83° 28' 46.126" E	1075.08	72.67	59311.74
		16	24° 2' 16.029" N	83° 29' 22.653" E			
ZONE_KH_07		17	23° 56' 48.819" N	83° 32' 21.752" E	609.23	64.14	25879.94
		18	23° 56' 30.131" N	83° 32' 29.875" E			
ZONE_KH_08		19	23° 55' 26.273" N	83° 32' 50.021" E	1394.24	99.36	77904.79
		20	23° 54' 40.668" N	83° 32' 48.348" E			
ZONE_KH_09		21	23° 53' 55.922" N	83° 33' 13.171" E	775.4	69.44	31144.76
		22	23° 53' 37.426" N	83° 33' 30.595" E			
ZONE_KH_10		23	23° 53' 31.260" N	83° 33' 47.748" E	3914.72	112.41	221889.7
		24	23° 52' 32.589" N	83° 34' 57.128" E			
ZONE_KH_11		25	23° 52' 12.590" N	83° 34' 18.205" E	880.77	92.32	45399.53
		26	23° 51' 46.975" N	83° 34' 14.422" E			
ZONE_KH_12		27	23° 51' 43.665" N	83° 34' 46.008" E	750.22	98.21	61366.31
		28	23° 51' 45.441" N	83° 35' 12.163" E			
ZONE_KH_13		29	23° 51' 21.035" N	83° 36' 26.932" E	975.39	45.38	23400.39
		30	23° 51' 17.019" N	83° 36' 59.937" E			
ZONE_KH_14		31	23° 50' 59.602" N	83° 37' 48.183" E	1008.6	75.41	50597.29
		32	23° 50' 53.333" N	83° 38' 26.087" E			
ZONE_KH_15		33	23° 50' 52.156" N	83° 38' 59.799" E	765.49	92.06	55788.97
		34	23° 50' 59.085" N	83° 39' 24.993" E			
ZONE_KH_16		35	23° 50' 54.213" N	83° 39' 41.987" E	906.46	63.45	38688.89
		36	23° 50' 32.221" N	83° 40' 1.900" E			
ZONE_KH_17		37	23° 49' 43.771" N	83° 39' 49.358" E	543.06	125.69	51510.73
		38	23° 49' 37.907" N	83° 40' 6.688" E			
ZONE_KH_18		39	23° 49' 18.931" N	83° 42' 10.742" E	1124.01	87.64	56851.18
		40	23° 48' 48.150" N	83° 42' 27.305" E			
ZONE_KH_19		41	23° 47' 24.713" N	83° 43' 11.764" E	4332.76	98.55	121781.7
		42	23° 45' 36.784" N	83° 44' 20.313" E			
ZONE_KH_20		43	23° 43' 59.800" N	83° 44' 17.484" E	1742.99	157.88	143706.9
		44	23° 43' 5.665" N	83° 44' 39.519" E			
ZONE_KH_21		45	23° 42' 29.939" N	83° 44' 34.695" E	1697.87	113.83	68210.2
		46	23° 41' 48.380" N	83° 43' 59.770" E			
ZONE_KH_22		47	23° 40' 56.205" N	83° 43' 33.267" E	381.97	99.68	27198.72
		48	23° 40' 45.922" N	83° 43' 40.636" E			
ZONE_KH_23		49	23° 39' 57.354" N	83° 44' 12.013" E	1168.68	127.97	106084.7
		50	23° 39' 40.683" N	83° 44' 51.760" E			
ZONE_KH_24		51	23° 39' 28.692" N	83° 45' 5.871" E	1128.06	67.15	47464.29
		52	23° 39' 4.583" N	83° 45' 35.557" E			
ZONE_KH_25		53	23° 38' 52.722" N	83° 45' 38.206" E	1434.69	146.62	136960.8
		54	23° 38' 20.252" N	83° 45' 3.620" E			



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District Survey Report
Garhwa District
Jharkhand

RIVER NAME	ZONE		COORDINATE		LENGTH (MTS)	WIDTH (MTS)	AREA (SQMTS)
			LATITUDE	LONGITUDE			
	ZONE_KH_26	55	23° 38' 12.563" N	83° 45' 9.409" E	1227.98	76.4	58000.58
		56	23° 37' 38.963" N	83° 45' 33.722" E			
	ZONE_KH_27	57	23° 37' 25.448" N	83° 45' 59.616" E	878.17	73.85	49248.8
		58	23° 37' 16.657" N	83° 46' 28.352" E			
	ZONE_KH_28	59	23° 36' 33.875" N	83° 46' 17.077" E	326.94	40.65	11533.16
		60	23° 36' 27.671" N	83° 46' 7.701" E			
SONE	ZONE_SN_01	1	24° 32' 1.347" N	83° 51' 58.692" E	27399.63	1016.35	16477413
		2	24° 30' 48.134" N	83° 35' 58.121" E			
	ZONE_SN_02	3	24° 30' 25.260" N	83° 35' 22.084" E	20502.64	823.77	10455443
		4	24° 29' 41.843" N	83° 23' 29.240" E			
NORTH KOEL	ZONE_NK_01	1	24° 29' 27.997" N	83° 50' 57.904" E	7911.68	576.94	2835640
		2	24° 25' 11.405" N	83° 51' 11.574" E			
	ZONE_NK_02	3	24° 23' 24.222" N	83° 49' 52.764" E	4153.79	265.48	1053036
		4	24° 21' 33.184" N	83° 48' 35.848" E			
	ZONE_NK_03	5	24° 20' 0.413" N	83° 49' 26.161" E	6990.28	111.59	586361.6
		6	24° 16' 47.407" N	83° 49' 37.149" E			
	ZONE_NK_04	7	24° 14' 33.100" N	83° 51' 25.447" E	1845.05	94.21	167840.8
		8	24° 13' 43.118" N	83° 52' 2.457" 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 Son, Koel, & Kanhar of Garhwa district is given in Figure 7.8.

Table 7-12:- Restricted Zone of Riverbed Mineral

RIVER NAME	ZONE	RESTRICTED AREA (SQ MTS)
KANHAR	ZONE_KH_01	0
	ZONE_KH_02	12322.97739



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*District Survey Report
Garhwa District
Jharkhand*

RIVER NAME	ZONE	RESTRICTED AREA (SQ MTS)
	ZONE_KH_03	121265.943
	ZONE_KH_04	49826.05859
	ZONE_KH_05	38117.87921
	ZONE_KH_06	14633.03138
	ZONE_KH_07	4544.699502
	ZONE_KH_08	35261.32049
	ZONE_KH_09	14163.13851
	ZONE_KH_10	45544.17453
	ZONE_KH_11	14197.40594
	ZONE_KH_12	12286.78489
	ZONE_KH_13	15344.47339
	ZONE_KH_14	24836.31685
	ZONE_KH_15	7882.137432
	ZONE_KH_16	6764.914005
	ZONE_KH_17	1086.346875
	ZONE_KH_18	12529.96857
	ZONE_KH_19	46579.45413
	ZONE_KH_20	52560.15682
	ZONE_KH_21	32370.73742
	ZONE_KH_22	0
	ZONE_KH_23	27247.57293
	ZONE_KH_24	31977.0794
	ZONE_KH_25	24693.48024
	ZONE_KH_26	22127.88324
	ZONE_KH_27	16810.4786
	ZONE_KH_28	8176.271474
SONE	ZONE_SN_01	4183236.703
	ZONE_SN_02	2885109.58



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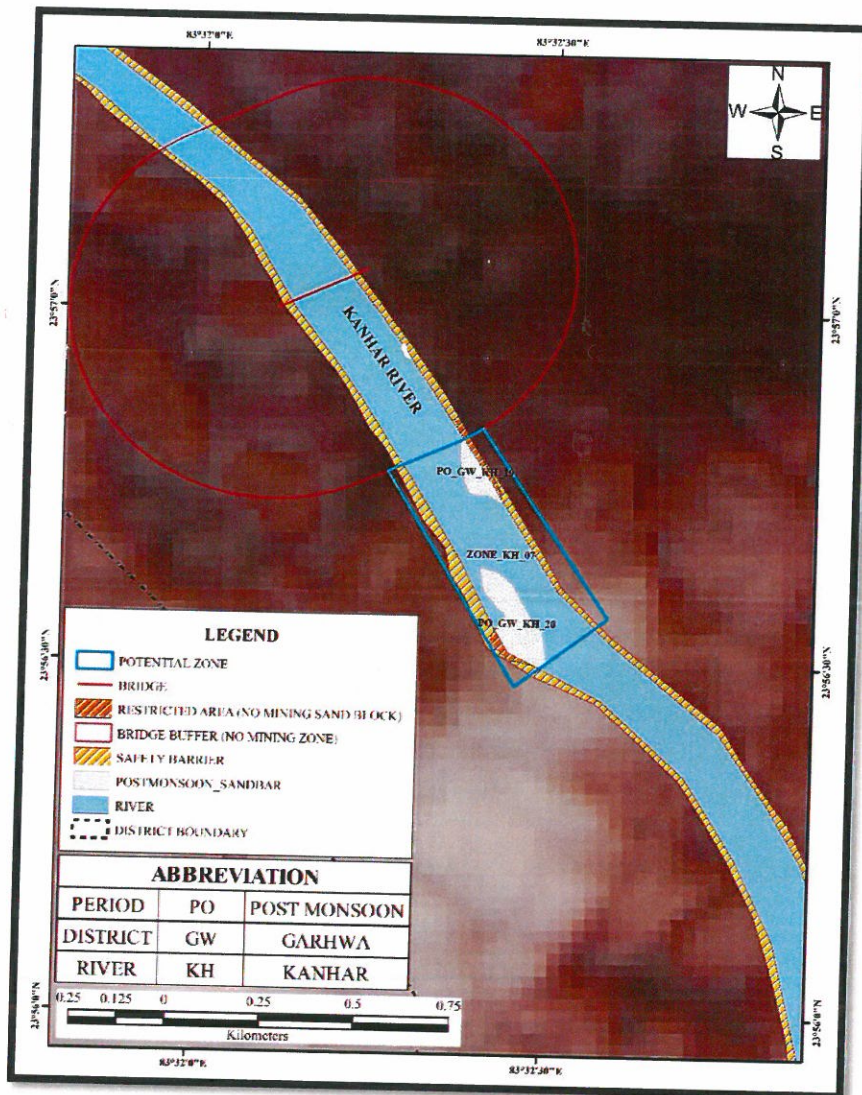


Figure 7-6:- A representative map showing no-mining zone demarcated on Kanhar River



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8 Overview of mining activity in the district:

8.1 General overview:

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 List of existing mining leases of the districts

Table 8-1 : Details of Sand mining leases of the districts

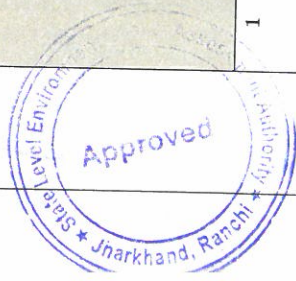


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District Survey Report
Garhwa District
Jharkhand

S.NO	River Details	Lease Details	Area (Hectare)	Geo-Coordinate	Distance (in KM) from PA/BR/WC /	Distance from Forest Area (in KM)	Minimum leases within 500 Meters (if yes cluster area)	Total excavation in Tonnes /Annum considering digging depth max As 3meters	Mineral to be mined (Sand/ Bajri/RBM etc.)	Existing/Proposed
1	North Koel Category II	Mouza – Sundipur, Anchal – Majhiaon, Thana no. – 259, Plot no. – 2268P	10.12	A- 24°30'6.80"N 83°51'29.15"E B- 24°30'0.44"N 83°51'29.14"E C- 24°30'0.28"N 83°51'11.11"E D- 24°30'6.80"N 83°51'11.05"E			NO	540000	Sand	Existing
2	North Koel Category II	Mouza – Kharsoota, Anchal – Majhiaon,	8.00	A- 24°22'48.79"N 83°49'16.79"E B- 24°22'53.13"N 83°49'11.59"E C- 24°23'02.06"N 83°49'22.01"E			NO	432000	Sand	Existing



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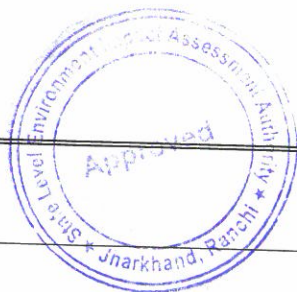
8.3 Detail of production of sand and other minerals during last years

Details of production of last three years are furnished below.

Table 8-2 : Detail of production of sand and other minerals during last three years

Sl. No.	Year	Total Dispatch In Cft
1	2019-2020	4598397.90
2	2020-2021	13825610.30
3	2021-2022	10992580.00
Total		29416588.2

(Source: District Mining Office, Garhwa)



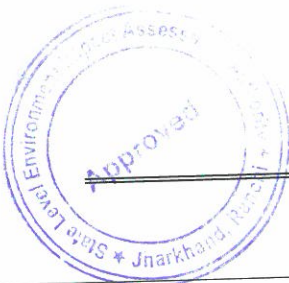
9 Details of revenue generated from mineral sector during last years:

Revenue generation of last three years is furnished below.

Table 9-1: District revenue generation from mineral sector in Rs.

Sl. No.	Year	Royalty in Lakh
1	2019-2020	37.6
2	2020-2021	89.36
3	2021-2022	89.41
Total		235.51

(Source: District Mining Office, Garhwa)



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10 Transport (Railway, road):

Garhwa district bordered by river Sone on the north, Palamau district of Jharkhand state on the east, Surguja district of Chhattisgarh state on the south, and Sonebhadra district of Uttar Pradesh on the west. The district of Garhwa 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. Garhwa district is connected to Ranchi in Jharkhand by National Highway No. 75. There are 210 km of state highway, 55 km of national highway (NH-75) and 96.95 km of district roads.

Garhwa Railway Station is a major railhead of the Eastern Railway zone. The nearest Railway Junction is Garhwa Road Junction.

The nearest airport is Varanasi Airport in of U.P State at a distance about 140 Km and Ranchi Airport at a distance about 208 Km

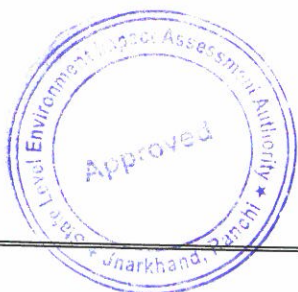




Figure 10-1 : Road map of Garhwa District

(Source: <https://www.mapsofindia.com/maps/jharkhand/roads/Garhwa.htm>)



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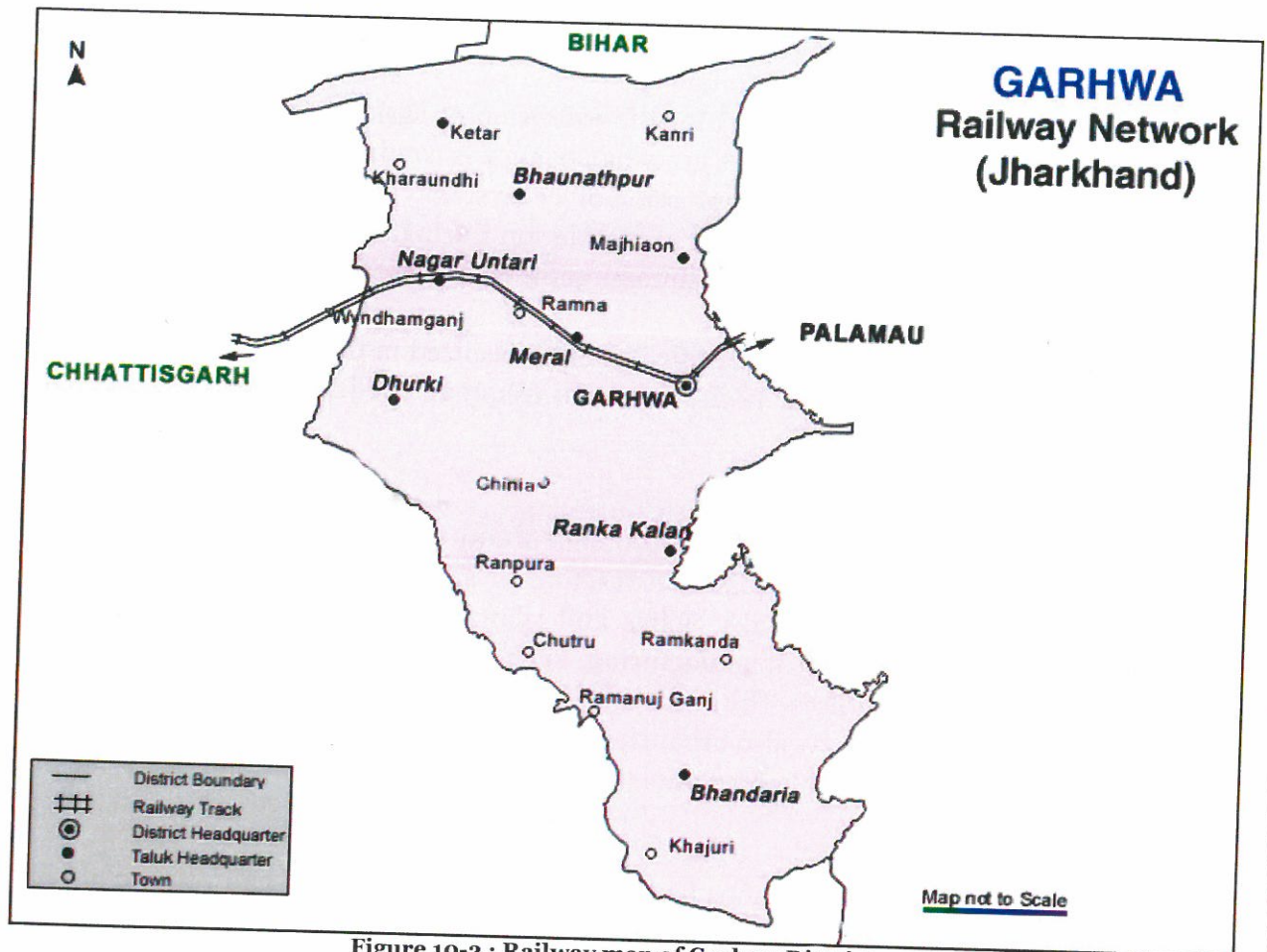


Figure 10-2 : Railway map of Garhwa District

(Source: <https://www.mapsofindia.com/maps/jharkhand/railways/garhwa.html>)



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11 Environmental Sensitivity

The Garhwa area represents a unique geo- environmental setup. 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 ecosystem.

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.

The adverse effect of 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 utilized 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 urbanization resulted in illegal mining.

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

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

In-stream mining directly alters the channel geometry and bed elevation. By removing sediment from the channel, 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



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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 base flow level whichever is less, provided that where the Joint Inspection Committee certifies about excessive deposit or over accumulation of mineral in certain reaches requiring channelization, it can go above 3 meters.
- Mining shall be done in layers of 1-meter depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers.
- No stream should be diverted for the purpose of sand mining. No natural water course and/ or water resources are obstructed due to mining operations.
- No blasting shall be resorted to in river mining and without permission at any other place.

11.2.2 Monitoring the Mining of Mineral and its Transportation:

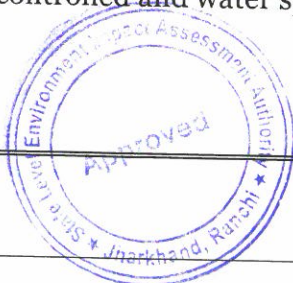
- For each mining lease site, the access should be controlled in a way that vehicles carrying mineral from that area are tracked and accounted for.
- There should be regular monitoring of the mining activities in the State to ensure effective compliance of stipulated EC conditions and of the provisions 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. Five times the number of trees destroyed by mining to be planted preferably of indigenous species. Each EC holder shall have to undertake plantation of trees over at least 20% of the total area of lease in the same plot or plots utilized for such working.
- No mining lease shall be granted in the forest area without forest clearance in accordance with the provisions of the Forest Conservation Act, 1980 and the rules made there under.
- Protection of natural home of any wild animal shall have to be ensured.
- No felling of tree near quarry is allowed. For mining lease within 10km of the National Park / Sanctuary or in Eco-Sensitive Zone of the Protected Area, recommendation of Standing Committee of National Board of Wild Life (NBWL) has 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 should be ensured during mining. Where top soil cannot be used concurrently, it shall be stored separately for future use keeping in view that the bacterial organism should not die and should be spread nearby area.
- The EC should stipulate conditions for adequate steps to check soil erosion and control debris flow etc. by constructing engineering structures
- Use of oversize material to control erosion and movement of sediments
- No overhangs shall be allowed to be formed due to mining and mining shall not be allowed in area where subsidence of rocks is likely to occur due to steep angle of slope.
- No extraction of stone / boulder / sand in landslide prone areas.
- Controlled clearance of riparian vegetation to be undertaken.



11.2.7 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 of river cross section. The study of cross section is basis for delineating channel form. Cross-sections must be surveyed between two monumented endpoints set on the river banks, and elevations should be referenced based on benchmark set in the area;
- b) The proposed mining cross-section data should be plotted over the baseline data to illustrate the vertical extent of the proposed excavation;
- c) The cross-section of the replenished bar should be the same as the baseline data. This illustrates that the bar elevation after the bar is replenished will be the same as the bar before extraction;



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

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

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

g) A monitoring plan has been established.



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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

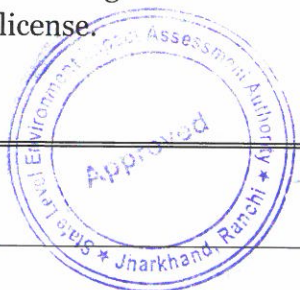
There is no land degradation due to mining activities as mining is done only on river bed dry surface. There will be no OB or waste generation as the sand is exposed in the river bed and is completely saleable. There will be neither any stacking of soil nor creation of OB dumps. The mining activity will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

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

12.2 Mitigation measures

12.2.1 Measures to prevent accidents during loading and transportation:

- During the loading truck should be brought to a lower level so that the loading operation suits to the ergonomic condition of the workers.
- The workers will be provided with gloves and safety shoes during loading.
- Opening of the side covers of the truck should be done carefully and with warning to prevent injury to the loaders.
- Mining operations will be 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.



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12.2.2 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.

12.2.3 Measures for mitigation to quick sand condition:

- Quick sand zone and deep-water zone will be clearly demarcated and all the mines' workers will have 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.



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13 Conclusion & Recommendation

- I. The replenishment study has been carried out during the preparation of this DSR after analyzing datasets of consecutive calendar years.
- II. Both field-based surveys coupled with satellite imagery study and empirical study was carried out to determine the rate of replenishment in each river of the district.
- III. 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.
- IV. 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.



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ANNEXURE- 1
(Compliance Report)

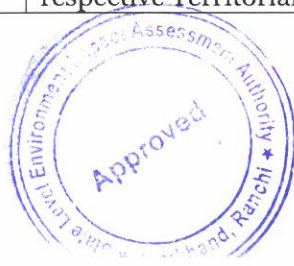


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Observation by SEAC Jharkhand

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.



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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.	<p>As per the siting criteria of JSPCB notification no. B-21, Ranchi dated 16/08/13 and also, as per 58th-MOM-of-SEIAA Jharkhand following sitting criteria has been complied which is as below:</p> <table border="1"> <thead> <tr> <th>Minimum distance from</th> <th>Distance (In meter)</th> </tr> </thead> <tbody> <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> </tbody> </table> <p>*As per SEIAA, Jharkhand MoM minimum distance from forest is 250 m only, which is considered for the DSR.</p>	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																		



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19.	Average length and width of the river should be including and mining should be restricted to 3/4 th 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



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ANNEXURE- A
**Details of Existing Sand Ghats (As per old
DSR)**



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Sl.NO	River Details	Lease Details	Area in (Ha)	Geo-Coordinate	Distance (in KM) from PA/BR/WC/	Distance from Forest Area (in KM)	Mining leases within 500 Meters (if yes cluster area)	Total excavation in Tonnes /Annum considering digging depth max As 3 meters	Mineral to be mined (Sand/ Bajri/RBM etc.)	Existing/Proposed
1	North Koel Category II	Mouza – Sundipur, Anchal – Majhiaon, Thana no. – 259, Plot no. – 2268P	10.12	A- 24°30'6.80"N 83°51'29.15"E B- 24°30'0.44"N 83°51'29.14"E C- 24°30'0.28"N 83°51'11.11"E D- 24°30'6.80"N 83°51'11.05"E			NO	540000	Sand	Existing
2	North Koel Category II	Mouza – Kharsota, Anchal – Majhiaon, Thana no. – 176, Plot no. – 3456	8.00	A- 24°22'48.79"N 83°49'16.79"E B- 24°22'53.13"N 83°49'11.59"E C- 24°23'02.06"N 83°49'22.01"E D- 24°22'57.85"N 83°49'27.39"E			NO	432000	Sand	Existing



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3	Son Category II	Mouza - Pachadumar, Anchal - Ketar, Thana no. - 30, Plot no. - 2363P	19.90	A- 24°31'9.06"N 83°33'39.63"E B- 24°31'2.59"N 83°33'39.72"E C- 24°31'2.59"N 83°33'2.99"E D- 24°31'8.63"N 83°33'2.81"E				NO	1074600	Sand	Existing
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List of category 1 sand ghat in Garhwa District

Sl. No. #	Name of sand ghat	Circle	Panchayat	River	Area (Acre)	Length of Deposit	Width of Deposit	Depth of deposit
1	Ranka	Garhwa Garamin	Ranka	Table	11.36	300	153	1.5
2	Banpurwa	Garhwa Garamin	Banpurwa	Danro	11.11	300	150	Not suitable
3	Vikhi	Danda	Vikhi	Table	6.17	250	100	1.5
4	Gerua	Meral	Gerua	Uria	6.17	250	100	1
5	Meral East	Meral	Meral East	Uria	6.17	250	100	1
6	Lakheya	Meral	Lakheya	Uria	6.17	250	100	1
7	Hasandag	Meral	Hasandag	Uria	7.41	200	150	1
8	Dandaii	Dandaii	Dandaii	Uria	7.41	200	150	1
9	Pipri Kala	Pipri Kala	Pipri Kala	Banki	2.81	150	76	1.5
10	Sarang	Sarang	Sarang	Banki	1.01	100	44	1.5
11	Bajhakra	Dandi	Dandi	Uria	4.12	200	83	1
12	Jenewa	Bhandaria	Jenewa	Sarastia	8.64	233	150	1.5
13	Harhe	Ramkanda	Harhe	Hathu	5.41	150	146	1
14	Bodra	Majhiyaon	Bodra	Banki	14.9	350	173	1

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ANNEXURE- B
(Committee Involved in DSR)



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कार्यालय, उपायुक्त-सह-जिला दण्डाधिकारी, गढ़वा।

(खनन शाखा)

आदेश

पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय भारत सरकार के अधिसूचना सं०-2827, दिनांक-25.07.2018 के आलोक में गढ़वा जिला के लघु खनिज से संबंधित जिला सर्वेक्षण रिपोर्ट (DSR) के संपादन हेतु अनुमंडल स्तरीय कमिटी का गठन किया जाता है :-

1. अनुमंडल पदाधिकारी, गढ़वा / श्रीवंशीधर नगर / रंका।
2. सहायक निदेशक, भूतत्व, पलामू अंचल, पलामू।
3. कार्यपालक अभियंता, सिंचाई विभाग, गढ़वा।
4. क्षेत्रीय पदाधिकारी, झारखण्ड, राँची।
5. संबंधित वनों के क्षेत्र पदाधिकारी।
6. जिला खनन पदाधिकारी, गढ़वा।

गढ़वा जिलान्तर्गत चिन्हित श्रेणी 2 के बालू घाटों से संबंधित M/s RAIN INVIRO PVT, LTD, PATNA द्वारा DSR of River Sand Mining with Potential Area for Garhwa District Jharkhand तैयार किया जा रहा है, जिसे उपरोक्त कमिटी द्वारा जॉचोपरान्त SEIAA, Jharkhand को भेजने हेतु जिला सर्वेक्षण रिपोर्ट DSR की प्रति उपलब्ध कराना सुनिश्चित करेंगे।

यह आदेश तत्काल प्रभाव से लागू समझा जाय।

Samuel
उपायुक्त,
गढ़वा। 10/3

ज्ञापांक 344 एम०/दिनांक-10/3/2023

- प्रतिलिपि :- संबंधित पदाधिकारियों को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।
प्रतिलिपि :- निदेशक खान झारखण्ड, राँची को सूचनार्थ प्रेषित।
प्रतिलिपि :- सचिव, खान एवं भूतत्व विभाग झारखण्ड, राँची को सूचनार्थ प्रेषित।

Samuel
उपायुक्त,
गढ़वा। 10/3



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ANNEXURE- C
(Photographs of the site Survey)



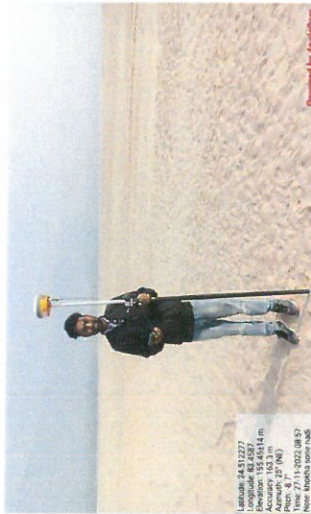
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Sub-Division committee site visit



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Garhwa Photographs



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ANNEXURE- D

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



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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, Garhwa		ULR No. : TC1021422000000205F	
		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			
Mauza: Khokha		River: Sone river	
Block: Kharaundhi		District: Garhwa	
Ref No: Nil		Dated: 30.11.2022	
SL. No.	TEST PARAMETERS	TEST METHOD	Results
1	Specific Gravity	IS 2386 (P-3)	2.61
2	Bulk density , kg/l	IS 2386 (P-3)	1.58

End of Test Report

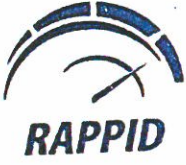


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TC-10214

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

TEST REPORT

Issued to, District Mining Officer, Garhwa		ULR No. : TC1021422000000206F	
		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			
Mauza: Pipra		River: Sone river	
Block: Kharaundhi		District: Garhwa	
Ref No: Nil		Dated: 30.11.2022	
SL. No.	TEST PARAMETERS	TEST METHOD	Results
1	Specific Gravity	IS 2386 (P-3)	2.63
2	Bulk density , kg/l	IS 2386 (P-3)	1.59

End of Test Report



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TEST REPORT

Issued to, District Mining Officer, Garhwa		ULR No. : TC1021422000000207F	
Description of Sample : Sand		Date of Receipt: 30.11.2022	
Mauza: Bhurwa Korgain		Date of Testing: 30.11.2022-01.12.2022	
Block: Kandi		Date of Report : 01.12.2022	
Ref No: Nil		River: North Koel River	
Dated: 30.11.2022		District: Garhwa	
SL. No.	TEST PARAMETERS	TEST METHOD	Results
1	Specific Gravity	IS 2386 (P-3)	2.60
2	Bulk density , kg/l	IS 2386 (P-3)	1.56

End of Test Report



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TC-10214

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

TEST REPORT

Issued to,

District Mining Officer, Garhwa

ULR No. : TC1021422000000208F

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

Mauza: Mukhapi Ranadih

River: North Koel River

Block: Kandi

District: Garhwa

Ref No: Nil

Dated: 30.11.2022

Sl. No.	TEST PARAMETERS	TEST METHOD	Results
1	Specific Gravity	IS 2386 (P-3)	2.64
2	Bulk density , kg/l	IS 2386 (P-3)	1.60

End of Test Report



Authorized Signatory



Signature

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Terms & Conditions:

1. This report shall not be reproduced except in full without the approval of the Rappid Test Lab Pvt. Ltd.,
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 not 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....



TC-10214

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

TEST REPORT

Issued to, District Mining Officer, Grahwa		ULR No. : TC1021422000000247F	
		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 : Kanhar	
Block : Dhurki		District:- Gharhwa	
Village: Liba alias			
Ref No: Nil		Dated: 29.11.2022	
SL. No.	TEST PARAMETERS	TEST METHOD	Results
1	Specific Gravity	IS 2386 (P-3)	2.61
2	Bulk density , gm/cc	IS 2386 (P-3)	1.58

End of Test Report



Authorized Signatory



Terms & Conditions:

1. This report shall not be reproduced except in full without the approval of the Rappid Test Lab Pvt. Ltd., 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 not implied, 4. Total liability of hour 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.

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		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 : Kanhar	
Block : Dhurki		District:- Gharhwa	
Village: Liba alias			
Ref No: Nil		Dated: 29.11.2022	
SL. No.	TEST PARAMETERS	TEST METHOD	Results
1	Specific Gravity	IS 2386 (P-3)	2.61
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End of Test Report



Authorized Signatory



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4. Total liability of hour Test Lab is limited to the invoiced amount.,
- 5 Report refers to the sample received by Rappid Test Lab Pvt. Ltd. unless mentioned otherwise.

ANNEXURE- E
(Proposed Ghat Coordinate)



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List of proposed category I Sand Ghat

SL No	Name of Sand Ghat	Circle	Panchayat	River	Khata No	Plot No	Area (Acre)	Depth approx. (m)	Order of River/ Stream
1	Behra Khurd	Manjhion	Talasbariya	Banki	34	01	-	1.0	II
2	Behra Kala	Manjhion	Talasbariya	Banki	71	01, 308	-	1.0	II
3	Talasbariya	Manjhion	Talasbariya	Banki	181	435/1	-	1.0	II
4	Tadahe	Manjhion	Tadahe	Banki	187	01	1.40	1.0	II
5	purahе	Manjhion	purahе	Banki	274	01	1.80	1.0	II
6	Budikhad	Manjhion	Kharsota	Banki	154	453, 1048	0.40, 0.70	1.0	II

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List of Category II Sand Ghat Garhwa District

Sl. No	Ghat Name	Area in (Ha)	Latitude	Longitude	Village	THANA NO	SHEET NO	PLOT NO	Block
1.	Son Ghat 1	83.4							
			24.52784789	83.84377955	GARA KHURD	257	1	1	KANDI
			24.53030635	83.84853386	SUNRIPURA	259	1	1	KANDI
			24.52819543	83.85301988	SUNRIPURA	259	2	7	KANDI
			24.52999168	83.85768914					
			24.52946849	83.86001311					
			24.53271605	83.86100041					
			24.5327249	83.86528601					
			24.52987862	83.8637449					
			24.52676744	83.86298571					
			24.52730352	83.85812546					
			24.52785309	83.85641589					
			24.52666546	83.85189667					
			24.52439582	83.84894713					
			24.52371627	83.84384626					
			24.52784789	83.84377955					
2.	Son Ghat 2	99.7							
			24.52183685	83.81795528	BALIAR	235	1	1	KANDI
			24.52569124	83.82032795	GARA KALAN	256	1	1	KANDI
			24.5290343	83.84193836	GARA KHURD	257	1	1	
			24.52359984	83.83798652					
			24.52183685	83.81795528					
3.	Son Ghat 3	86							
			24.50410457	83.76372906	DUMARSOLA				
			24.50218846	83.76357914					BHAWNATHPUR

2000

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			24.50662652	83.42613581					
			24.50533574	83.42623258					
			24.50135044	83.41955728					
			24.49642824	83.39748665					
9	North Koyal Ghat 1	145			KHARAUNDHA	252	2	2615	
			24.46908396	83.8452328	BHURWA	251	2	1059	Kandi
			24.46803622	83.85080021	JAINAGRA	250	2	1493	
			24.49108151	83.85209386	JAINAGRA	250	2	1492	
			24.49093027	83.84626348	KORGAIN	246	2	1977	
			24.46908396	83.8452328	KORGAIN	246	2	1976	
					KORGAIN	246	2	1978	
10	North Koyal Ghat 2	15.3			MUKHAPI	245	2	1425	Kandi
			24.46200691	83.84948803	RANADIH	189	1	128	
			24.45992743	83.85095716					
			24.45722753	83.85067375					
			24.45552389	83.85213554					
			24.46537332	83.85167883					
			24.46575455	83.85085568					
			24.46200691	83.84948803					
11	North Koyal Ghat 3	124			RANADIH	189	1	1211, 1212	Kandi
			24.44604356	83.85073239	RANADIH	189	2	3166, 1628	
			24.44011697	83.85094212	SOHGARA	188	1	941	
			24.42015529	83.85165699	BHANDARLA	187	2	1150	
			24.4196625	83.85493413					



			24.368996131	83.81147565					
			24.36026659	83.80924597					
14	North Koyal Ghat 6	10.9			MAJHIAON KHURD	145	1	605	
			24.33034556	83.82516689	MAJHIAON KALAN	144	1	1174	
			24.3282929	83.82692778					
			24.32856268	83.82754998					
			24.33095921	83.82673345					
			24.33389665	83.82519641					
			24.33281022	83.82301354					
			24.33034556	83.82516689					
15	North Koyal Ghat 7	20.9			MAJHIAON KALAN	144	1	1174	
			24.31825482	83.82734451					
			24.31848895	83.83002973					
			24.32011851	83.83032839					
			24.32474137	83.82915646					
			24.32457838	83.8265181					
			24.31825482	83.82734451					
16	North Koyal Ghat 8	4.38			BAKOLA	141	1	917	
			24.30162739	83.81747031	BAKOLA	141	2	1549	
			24.30019496	83.81762475	CHHERIAHA	140	1	146	
			24.30353769	83.81890349					
			24.30473565	83.81972901					
			24.30531272	83.81844978					

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Majhiaon

Majhiaon

Majhiaon

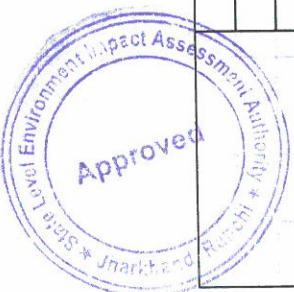
17	North Koyal Ghat 9	22.5	24.30162739	83.81747031	AMAR CHHECHHARIA	139	2	2243	Majhiaon
			24.2949239	83.81462044	KHAJURI NAWADJIH	138	2	2934	Majhiaon
			24.29463382	83.81533143	BAJUDIHI	257	1	1	MERAL
			24.29058731	83.81715269	ATAULA	258	1	1767	MERAL
			24.28704628	83.81879491					
			24.28664645	83.82060416					
			24.28466476	83.82249227					
			24.2830955	83.82403428					
			24.28013038	83.82664904					
			24.27950821	83.8264495					
			24.28154622	83.82461111					
			24.28287076	83.82346747					
			24.28465038	83.82102044					
			24.28656994	83.81833238					
			24.28752638	83.81744766					
			24.2892097	83.81585815					
			24.29259891	83.81466186					
			24.2949239	83.81462044					
18	North Koyal Ghat 10	16.8			PATSI	272	1	1	
			24.24224836	83.8567342	DARMI	274	1	1054, 1055	Garhwa
			24.24255155	83.85757594					
			24.23796626	83.86082552					
			24.2289017	83.8673673					
			24.22857481	83.86695088					

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			24.23152699	83.86457906					
			24.23676905	83.86038241					
			24.24025873	83.85793215					
			24.24224836	83.8567342					
19	Kanhhar Ghat 1	0.89			BHUNPHOR	159	3	763	
			24.09806268	83.3443876	MANDRE ALIAS DHEPHSA	160	1	425	
			24.09828838	83.34443288					
			24.09835529	83.344602					
			24.09833785	83.3448572					
			24.09817269	83.34526229					
			24.09789897	83.34571617					
			24.09783585	83.34645402					
			24.09746365	83.34660432					
			24.09733511	83.34634336					
			24.0977505	83.34542934					
			24.09806268	83.3443876					
20	Kanhhar Ghat 2	0.82			LIBRA ALIAS PARAS PANI KALAN	164	2	61	
			24.09455695	83.39786984					
			24.09452222	83.3983036					
			24.09386212	83.39936749					
			24.09357046	83.39964139					
			24.09338546	83.39973353					
			24.09300535	83.40021606					
			24.0927885	83.40017101					
			24.09455695	83.39786984					



Dhurki

Dhurki

10/10/20

21	Kanhar Ghat 3	15-5				LIBRA ALIAS PARAS PANI KALAN	164	6	2364
			24.08452346	83.43414679		MURHPUR ALIAS PACHIPHERI	165	1	1
			24.08195463	83.43577745					
			24.07707348	83.43771072					
			24.07510726	83.43815294					
			24.07325792	83.43841092					
			24.07141768	83.43874516					
			24.07011326	83.43865078					
			24.06904744	83.43857751					
			24.06819009	83.4390116					
			24.0682544	83.43914029					
			24.06912284	83.43891425					
			24.0703221	83.43904585					
			24.07070364	83.43925815					
			24.07240299	83.43878217					
			24.0733782	83.43863958					
			24.07552648	83.4384701					
			24.07750655	83.43835244					
			24.07801964	83.43867174					
			24.07991051	83.43802972					
			24.08286136	83.43668453					
			24.08384796	83.43542611					
			24.0856968	83.43392233					
			24.08597514	83.43303947					
			24.08572925	83.43275496					
			24.08452346	83.43414679					

Dhurki



22	Kanhar Ghat 4	2.99	24.06595212	83.43844684	MURHPUR ALIAS PACHPHERI	165	2	93	Dhurki	
			24.06609225	83.43815675						
			24.06590378	83.43785099						
			24.06431794	83.43741073						
			24.0629791	83.43713175						
			24.06227842	83.43709661						
			24.06150604	83.43723258						
			24.06018202	83.43759224						
			24.06021543	83.43776023						
			24.06112101	83.43759973						
			24.06223002	83.43753549						
			24.06365187	83.43778282						
			24.06595212	83.43844684						
23	Kanhar Ghat 5	1.28			DHASNI	144	1	1		BHANDARIA
			23.7621393	83.7380681						
			23.76188736	83.73749497						
			23.76138925	83.73767144						
			23.76103287	83.73800053						
			23.76046108	83.73870531						
			23.76139832	83.73866087						
			23.76228025	83.73822803						
			23.7621393	83.7380681						
24	Kanhar Ghat 6	3.91			JANDEWA	143	2	646		BHANDARIA
			23.77921906	83.72284216	JANDEWA	143	4	1384		
			23.7785476	83.72222644						



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			23.86714281	83.56940506					
			23.86819125	83.57000086					
			23.86957148	83.57114352					
			23.87011764	83.57178845					
27	Kanhar Ghat 9	3.86			SIROI ALIAS BELWADAMAR ANHAR	33	2	857	
			23.87892073	83.58536256		34	2	826	
			23.87844442	83.58509095					
			23.87822454	83.58444229					
			23.87732786	83.58383697					
			23.87688329	83.58313188					
			23.87623184	83.58297363					
			23.87566391	83.58258997					
			23.87540419	83.58308773					
			23.87609812	83.58370454					
			23.87631086	83.58422484					
			23.87715346	83.5851138					
			23.87816232	83.58535182					
			23.87838063	83.58546536					
			23.87892073	83.58536256					
28	Kanhar Ghat 10	2.83			DUDHWAL	12	3	743	
			23.89881596	83.55364707					
			23.89861048	83.55345092					
			23.89748858	83.55396113					
			23.89670815	83.55458426					
			23.89638129	83.55495569					
			23.89584144	83.55501008					
			23.89563867	83.55482782					

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			24.042224217	83.4677666					
			24.04209561	83.46538649					
			24.04213278	83.46299156					
			24.04209433	83.46026542					
			24.04215772	83.45769514					
			24.04232081	83.45542481					
			24.0425051	83.45385459					
			24.04338391	83.45226431					



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ANNEXURE- F
(DFO & CO Letter)



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कार्यालय:- अंचल अधिकारी, भण्डरिया।

प्रेषक,

पत्रांक.14.4./

अंचल अधिकारी,
भण्डरिया।

सेवा में,

सहायक खनन वदाधिकारी,
गढ़वा।

विषय:-

प्रसंग:-

महाशय,

दिनांक 25/03/2023

चिन्हित बालू घाटों से संबंधित जॉच प्रतिवेदन का प्रेषण।

भवदीय पत्रांक 370/एम0, दिनांक 20.03.2023

उपर्युक्त विषयक प्रासंगिक पत्र का जॉच राजस्व उप निरीक्षक, प्रमारी अंचल निरीक्षक एवं अंचल अमीन से कराई गई। जॉच प्रतिवेदन में प्रतिवेदित है कि मौजा जनेवा थाना नं0-143 के हाल सर्वे खाता सं0-123 प्लॉट सं0-646 एवं 1384 रकबा क्रमशः 0.88हे0 एवं 3.03हे0 कुल रकबा-3.91हे0 भूमि से संबंधित विभाग द्वारा मांगी गई प्रतिवेदन बिन्दुवार निम्नवत है :-

क्र0सं0	याचित सूचना	वांछित सूचना
1	2	3
01	आवेदित क्षेत्र का किस्म क्या है ?	आवेदित क्षेत्र अनावार विहार सरकार किस्म नदी दर्ज है।
02	आवेदित क्षेत्र गैरमजरूआ खास भूमि हो तो किसी के साथ बन्दोवस्त है या नहीं ?	किसी के साथ बन्दोवस्ती नहीं है।
03	अगर क्षेत्र रैयती हो तो संबंधित रैयत का सहमति आवेदक को है या नहीं ?	भूमि गैरमजरूआ खास है।
04	क्या 250मी0 की परिधि में कोई मानव बसावट (Habitation) (आवादी 200 व्यक्ति/मकान-40) स्थित है।	नहीं
05	क्या 250मी0 की दूरी के अंदर में कोई डैम (Dam, Resevior) है।	नहीं
06	क्या 500मी0 की दूरी के अंदर में कोई पुल अवस्थित है?	नहीं
07	क्या 250मी0 की परिधि में कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
08	क्या 250मी0 की परिधि में कोई चिकित्सालय (Hospital) स्थित है ?	नहीं
09	क्या 250मी0 की दूरी के अंदर में कोई राष्ट्रीय धरोहर/ पुरातत्वीय (Monuments/Archaeological) महत्व के स्थल स्थित है ?	नहीं
10	आवेदित क्षेत्र से अन्तराज्यीय सीमा की दूरी क्या है?	120फीट मात्र

प्रतिवेदन सादर सूचनार्थ समर्पित।

अनुलग्नक:-यथोक्त।



विश्वासभाजन

अंचल अधिकारी,
भण्डरिया।

थाना नं०-143

थाना मण्डरिया

पैमाना 16"=1 मील

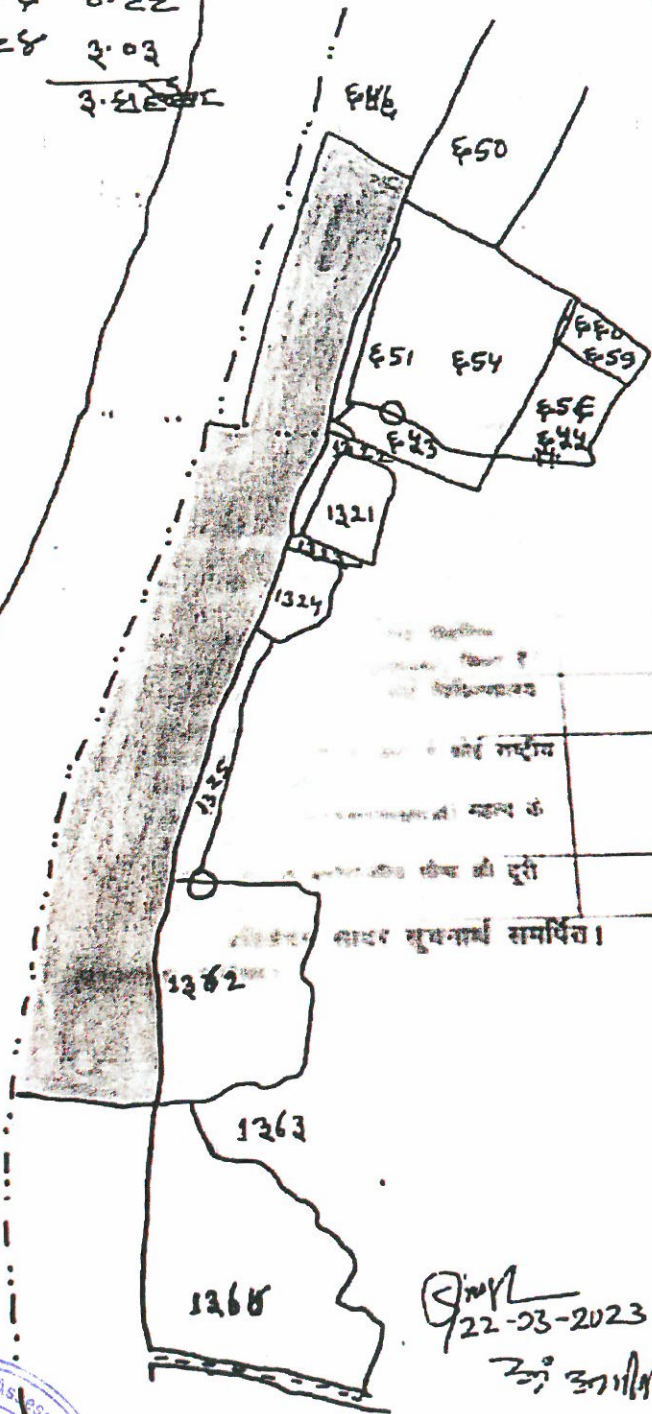
जिला - राठवा

उत्खाने की सूची का संक्षेप

खाना सं०	जोड़ सं०	खण्ड
123	६५६	०.२२
	1228	३.०३
		३.६१



दलिसण्ड बासन



...	नदी
...	नदी
...	305फीट मात्र

साथ सुवनाय समर्पित।

विश्वासमाजन
 अंचल अधिकारी,
 मण्डरिया।

22-03-2023
 [Signature]



कार्यालय:-अंचल अधिकारी, मण्डरिया।

पत्रांक.145/

प्रेषक,

अंचल अधिकारी,
मण्डरिया।

सेवा में,

सहायक खनन वदाधिकारी,
गढ़वा।

विषय:-
प्रसंग:-
महाराज,

विन्धित बालू घाटों से संबंधित जॉच प्रतिवेदन का प्रेषण।
भवदीय पत्रांक 370/एम0, दिनांक 20.03.2023

दिनांक 25/03/2023

उपर्युक्त विषयक प्रासंगिक पत्र का जॉच राजस्व उप निरीक्षक, प्रमारी अंचल निरीक्षक एवं अंचल अमीन से कराई गई। जॉच प्रतिवेदन में प्रतिवेदित है कि मौजा घसनी थाना नं0-144 के हाल सर्वे खाता सं0-45 प्लॉट सं0-01 रकबा-1.28 हे० भूमि से संबंधित विभाग द्वारा मांगी गई प्रतिवेदन विन्दुवार निम्नवत है :-

क्र०सं०	याचित सूचना	वांछित सूचना
1	2	3
01	आवेदित क्षेत्र का किस्म क्या है ?	अनावाद बिहार सरकार किस्म नदी/गैरमजरूआ मालिक है।
02	आवेदित क्षेत्र गैरमजरूआ खास भूमि हो तो किसी के साथ बन्दोवस्त है या नहीं ?	किसी के साथ बन्दोबस्ती नहीं है।
03	अगर क्षेत्र रैयती हो तो संबंधित रैयत का सहमति आवेदक को है या नहीं ?	नहीं
04	क्या 250मी० की परिधि में कोई मानव बसावट (Habitation) (आबादी 200 व्यक्ति/मकान-40) स्थित है।	नहीं
05	क्या 250मी० की दूरी के अंदर में कोई डैम (Dam, Resevior) है।	नहीं
06	क्या 500मी० की दूरी के अंदर में कोई पुल अवस्थित है?	नहीं
07	क्या 250मी० की परिधि में कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
08	क्या 250मी० की परिधि में कोई चिकित्सालय (Hospital) स्थित है ?	नहीं
09	क्या 250मी० की दूरी के अंदर में कोई राष्ट्रीय धरोहर/ पुरातत्वीय (Monuments/Archaeological) महत्व के स्थल स्थित है ?	नहीं
10	आवेदित क्षेत्र से अन्तराज्यीय सीमा की दूरी क्या है?	305फीट मात्र

प्रतिवेदन सादर सूचनार्थ समर्पित।

अनुलग्नक:-यथोक्त।

विश्वासभाजन

अंचल अधिकारी,
मण्डरिया।



अंचल अधिकारी का कार्यालय, गढ़वा (सदर)।

पत्रांक 351 / गढ़वा, दिनांक 29.03.2023 /

प्रेषक,

अंचल अधिकारी,
गढ़वा (सदर)।

सेवा में,

सहायक खनन पदाधिकारी,
गढ़वा।

विषय :- अंचल अन्तर्गत चिन्हित बालू घाटों का जाँच प्रतिवेदन प्रेषित करने के संबंध में।
प्रसंग :- आपका पत्रांक 371/एम0, दिनांक 21.03.2023।
महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के संबंध में सूचित करना है कि मौजा-पतसी, थाना नं0-271 के अन्तर्गत प्लॉट सं0- 01 एवं मौजा-दरमी थाना नं0-274 प्लॉट सं0-1054 एवं 1055 कुल रकबा 16.8 हे0 क्षेत्र कोयल नदी पर चिन्हित जिला सर्वेक्षण रिपोर्ट (DSR) बालू खनिज में शामिल कराने हेतु संबंधित राजस्व उप निरीक्षक, अंचल अमीन एवं अंचल निरीक्षक, गढ़वा अंचल से निम्नांकित बिन्दुओं पर जाँच प्रतिवेदन की मांग की गई।

उक्त के आलोक में संबंधित राजस्व उप निरीक्षक, अंचल अमीन एवं अंचल निरीक्षक के द्वारा जाँचोंपरांत जाँच प्रतिवेदन समर्पित किया गया है। (छायाप्रति संलग्न) प्रतिवेदन के अनुसार मौजा-पतसी, थाना नं0-272 के अन्तर्गत प्लॉट सं0-01 एवं मौजा-दरमी थाना नं0-274 प्लॉट सं0-1054 एवं 1055 कुल रकबा 16.8 हे0 क्षेत्र कोयल नदी पर चिन्हित जिला सर्वेक्षण रिपोर्ट (DSR) बालू खनिज में शामिल कराने बावत स्थलीय जाँचोंपरांत बिन्दुवार प्रतिवेदन निम्नवत है:-

क्र0 सं0	1	2
1	आवेदित भूमि का किस्म क्या है ?	गैरमजरूआ मालिक (किस्म कोयल नदी है)।
2	आवेदित क्षेत्र गैरमजरूआ खास भूमि हो तो किसी के साथ बन्दोवस्त है या नहीं ?	नहीं।
3	अगर क्षेत्र रैयती हो तो संबंधित रैयत का सहमति आवेदक को है या नहीं ?	रैयती नहीं है।
4	क्या 250 मी0 की परिधि में कोई मानव बसाहट (Habitation) (आबादी 200 व्यक्ति/मकान-40) स्थित है ?	नहीं।
5	क्या 250 मी0 की दूरी के अन्दर में कोई (Dam, Reservoir) है ?	नहीं।
6	क्या 500 मी0 की दूरी के अंदर में कोई पुल अवस्थित है ?	नहीं।
7	क्या 250 मी0 की परिधि में कोई शैक्षणिक संस्थान (Educational Institute) स्थित है ?	शैक्षणिक संस्थान का जिर्ण-शिर्ण भवन है।
8	क्या 250 मी0 की परिधि में कोई चिकित्सालय (Hospital) स्थित है ?	नहीं।
9	क्या 250 मी0 की दूरी के अंदर में कोई राष्ट्रीय धरोहर/पुरातत्वीय (Monuments/Archaeological) महत्व के स्थल स्थित है ?	नहीं।
10	आवेदित क्षेत्र से अंतरराज्यीय (Inter State) सीमा की दूरी क्या है ?	लगभग 75 किलोमीटर की दूरी पर स्थित है।

कृपया प्राप्ति स्वीकार की जाय।

अनुलग्नक :- यथोक्त।



Khanan -Garhwa139

विश्वासभाजन,
08/03/23
अंचल अधिकारी,
गढ़वा (सदर)।

कार्यालय :- अंचल अधिकारी, कांडी

पत्रांक.142 / दिनांक.27.12.23

प्रेषक,

अंचल अधिकारी,
कांडी,

सेवा में,

जिला खनन पदाधिकारी
गढ़वा,

विषय:-

अंचल- काण्डी, मौजा-रानाडीह, थाना सं०- 189, खाता-259, प्लॉट-1212,1211,128,3166, एवं 1628, मौजा-सोहगाड़ा, थाना न०-188, खाता सं०-59, प्लॉट सं०- भण्डरीया थाना सं०-187, खाता-73, प्लॉट सं०-1150, कुल रकवा-124 हे० क्षेत्र पर बालु घाट संचालन हेतु जांच प्रतिवेदन के संबंध में।

महाशय,

उपर्युक्त विषय के संबंध में कहना है कि अंचल- काण्डी, मौजा-रानाडीह, थाना सं०- 189, खाता-259, प्लॉट- 1212,1211,128,3166, एवं 1628, मौजा-सोहगाड़ा, थाना न०-188, खाता सं०-59, प्लॉट सं०- भण्डरीया थाना सं०-187, खाता-73, प्लॉट सं०-1150, कुल रकवा-124 हे० क्षेत्र पर बालु घाट संचालन हेतु राजस्व उपनिरीक्षक एवं अंचल निरीक्षक से जाँच कराई गयी। जाँच प्रतिवेदन निम्नवत है-

1	आवेदित भूमि का किस्म क्या है ?	
2	आवेदित भूमि गै० खास भूमि हो तो किसी के साथ बन्दोवस्त है या नहीं ?	कोयल नदी
3	अगर क्षेत्र रैयती हो तो संबंधित रैयत का सहमति आवेदक को है या नहीं ?	नहीं
4	क्या 250 मी० की परिधी में कोई सर्वजनिक / धार्मिक स्थल है ?	रैयती नहीं है
5	क्या 250 मी० की परिधी में कोई मानव बसाइट (आबादी 200, मकान 40) है ?	नहीं
6	क्या 500 मी० की परिधी में कोई पुल अवस्थित है ?	नहीं
7	क्या 250 मी० की परिधी में कोई शैक्षणिक संस्थान/ चिकित्सालय है ?	नहीं
8	क्या 250 मी० की परिधी में कोई राष्ट्रीय धरोहर/पुरातत्वीय महत्व के स्थल है ?	नहीं
9	क्या 250 मी० की परिधी में कोई जलीय निकाय (Dam,) है ?	नहीं
10	आवेदित क्षेत्र की परिधी में कोई अन्तर्राज्य सीमा की दूरी क्या है ?	25 कि.मी.

अतः प्रतिवेदन सादर सुचनार्थ प्रेषित।

विश्वासभाजन

अंचल अधिकारी
कांडी



कार्यालय :- अंचल अधिकारी, कांडी

पत्रांक 146 / दिनांक 27/5/23

प्रेषक,

अंचल अधिकारी,
कांडी,

सेवा में,

जिला खनन पदाधिकारी
गढ़वा,

विषय:-

अंचल- काण्डी, मौजा-मोखापी, थाना सं०- 245, खाता-116, प्लॉट- 1425, कुल रकवा-15.03 हे० भूमि पर बालु घाट संचालन हेतु जांच प्रतिवेदन के संबंध में।

महाशय,

उपर्युक्त विषय के संबंध में कहना है कि अंचल- काण्डी, मौजा-मोखापी, थाना सं०- 245, खाता-116, प्लॉट- 1425, कुल रकवा-15.03 हे० भूमि पर बालु घाट संचालन हेतु राजस्व उपनिरीक्षक एवं अंचल निरीक्षक से जांच कराई गयी। जांच प्रतिवेदन निम्नवत् है-

		कोयल नदी
1	आवेदित भूमि का किस्म क्या है ?	नहीं
2	आवेदित भूमि गै० खास भूमि हो तो किसी के साथ बन्दोवस्त है या नहीं ?	रैयती नहीं है
3	अगर क्षेत्र रैयती हो तो संबंधित रैयत का सहमति आवेदक को है या नहीं ?	नहीं
4	क्या 250 मी० की परिधी में कोई सर्वजनिक / धार्मिक स्थल है ?	नहीं
5	क्या 250 मी० की परिधी में कोई मानव बसाइट (आवादी 200, मकान 40) है ?	नहीं
6	क्या 500 मी० की परिधी में कोई पुल अवस्थित है ?	नहीं
7	क्या 250 मी० की परिधी में कोई शैक्षणिक संस्थान / चिकित्सालय है ?	नहीं
8	क्या 250 मी० की परिधी में कोई राष्ट्रीय धरोहर/पुरातत्वीय महत्व के स्थल है ?	नहीं
9	क्या 250 मी० की परिधी में कोई जलीय निकाय (Dam,) है ?	नहीं
10	आवेदित क्षेत्र की परिधी में कोई अन्तर्राज्य सीमा की दुरी क्या है ?	20 कि.मी.

अतः प्रतिवेदन सादर सुचनार्थ प्रेषित।

विश्वासमाजन

अंचल निरीक्षक
कांडी



कार्यालय :- अंचल अधिकारी, कांडी

प्रेषक,

पत्रांक...141.../ दिनांक...27/3/23

अंचल अधिकारी,
कांडी,

सेवा में,

जिला खनन पदाधिकारी
गढ़वा,

विषय:-

अंचल- काण्डी, मौजा-खरौघा, थाना सं0- 252, खाता-340, प्लॉट- 2615, मौजा-भुडवा, थाना न0-251, खाता सं0-107, प्लॉट सं0-1059, एवं मौजा- जयनगरा, थाना सं0-250, खाता-84, प्लॉट सं0-1492,1493, एवं मौजा- कोरगाई, थाना सं0-246, खाता सं0-145, प्लॉट सं0-1976,1977,1978, कुल रकवा-145 हे0 क्षेत्र पर बालु घाट संचालन हेतु जांच प्रतिवेदन के संबंध में।

महाशय,

उपर्युक्त विषय के संबंध में कहना है कि अंचल- काण्डी, मौजा-खरौघा, थाना सं0- 252, खाता-340, प्लॉट- 2615, मौजा-भुडवा, थाना न0-251, खाता सं0-107, प्लॉट सं0-1059, एवं मौजा- जयनगरा, थाना सं0-250, खाता-84, प्लॉट सं0-1492,1493, एवं मौजा- कोरगाई, थाना सं0-246, खाता सं0-145, प्लॉट सं0-1976,1977,1978 कुल रकवा-145 हे0 क्षेत्र पर बालु घाट संचालन हेतु राजस्व उपनिरीक्षक एवं अंचल निरीक्षक से जाँच कराई गयी। जाँच प्रतिवेदन निम्नवत् है-

1	आवेदित भूमि का किस्म क्या है ?	कोयल नदी/ बालु
2	आवेदित भूमि गै0 खास भूमि हो तो किसी के साथ बन्दोवस्त है या नहीं ?	नहीं
3	अगर क्षेत्र रैयती हो तो संबंधित रैयत का सहमति आवेदक को है या नहीं ?	रैयती नहीं है
4	क्या 250 मी0 की परिधी में कोई सर्वजनिक / धार्मिक स्थल है ?	नहीं
5	क्या 250 मी0 की परिधी में कोई मानव बसाइट (आबादी 200, मकान 40) है ?	नहीं
6	क्या 500 मी0 की परिधी में कोई पुल अवस्थित है ?	नहीं
7	क्या 250 मी0 की परिधी में कोई शैक्षणिक संस्थान / चिकित्सालय है ?	नहीं
8	क्या 250 मी0 की परिधी में कोई राष्ट्रीय धरोहर/ पुरातत्वीय महत्व के स्थल है ?	नहीं
9	क्या 250 मी0 की परिधी में कोई जलीय निकाय (Dam,) है ?	नहीं
10	आवेदित क्षेत्र की परिधी में कोई अन्तर्राज्य सीमा की दुरी क्या है ?	15 कि.मी.

अतः प्रतिवेदन सादर सुचनार्थ प्रेषित।

विश्वासभाजन

अंचल अधिकारी
कांडी





कार्यालय अंचल अधिकारी, केतार (गढ़वा)

co.ketar01@gmail.com

पत्रांक:-125./

प्रेषक,

अंचल अधिकारी,
केतार।

सेवा में,

जिला खनन पदाधिकारी,
गढ़वा।

केतार/ दिनांक:- 28.03.2023

विषय:- केतार अंचल अन्तर्गत मैजा परतीकुशवानी, पाचाडुमर,गम्हरिया, बीजडीह, चॉन्दडीह, मेरोनी लोहरगाड़ा, कोशडीहरा एवं मुनमुन के बालू घाट की प्रकृति उपलब्ध कराने के संबंध।

प्रसंग:- भवदीय पत्रांक- 1631,1632,1633 दिनांक-30.12.2022,पत्रांक- 288 दिनांक-25.02.2023 एवं पत्रांक 388/एम0 दिनांक 22.03.2023

महाशय,

उपर्युक्त विषयक प्रसंगाधीन पत्र के संदर्भ में सादर सूचित करना है कि केतार अंचल अन्तर्गत मैजा परतीकुशवानी, पाचाडुमर,गम्हरिया, बीजडीह,चॉन्दडीह, मेरोनी, लोहरगाड़ा, कोशडीहरा एवं मुनमुन के बालू घाट की प्रकृति की जाँच राजस्व उप निरीक्षक प्रभारी अंचल निरीक्षक एवं अंचल अमीन से कराकर अग्रेतर कार्रवाई हेतु भेजी जा रही है।
कृपया प्राप्ति स्वीकार की जाए।

संलग्न:- राजस्व उप0 प्रभारी अंचल निरीक्षक एवं अंचल अमीन का जाँच प्रतिवेदन मूल प्रतिवेदन।

विश्वासभाजन

अंचल अधिकारी,
केतार।



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कार्यालय अंचल अधिकारी, केतार (गढ़वा)

ग्राम कोशडीहरा के अन्तर्गत बालू घाट निर्माण हेतु राजस्व उप निरीक्षक, अंचल निरीक्षक एवं अंचल अमीन के आधार पर जाँच प्रतिवेदन प्लॉट 02

क सं०	क्षेत्र का प्रकार	क्षेत्रों के भौगोलिक स्थिति	किस्म
1	2	3	4
1	अरवेदित क्षेत्र का किस्म क्या है?	नदी प्लॉट सं० 02	सोन नदी
2	आवेदित क्षेत्र १००० भूमि हो तो किसी के साथ बन्दोबस्त है या नहीं	किसी के साथ बन्दोबस्त नहीं है।	
3	अगर क्षेत्र रैयती है तो संबंधित रैयत की सहमती	भूमि रैयती नहीं है।	
4	क्या 250 मीटर की परिधि में कोई मानव बसावट है या नहीं	250 मीटर की परिधि में कोई मानव बसावट नहीं है।	
5	क्या 250 मीटर की दूरी कोई डेम है,	250 मीटर की दूरी में कोई डेम नहीं है।	
6	क्या 500 मीटर की दूरी में कोई पूल है।	500 मीटर की दूरी में कोई पूल नहीं है।	
7	क्या 250 मीटर की परिधि में कोई शैक्षणिक संस्थान है,	250 मीटर की दूरी में कोई शैक्षणिक संस्थान नहीं है,	
8	क्या 250 मीटर की दूरी में कोई चिकित्सालय है,	250 की दूरी में कोई चिकित्सालय नहीं है।	
9	क्या 250 मीटर दूरी के अन्दर कोई राष्ट्रीय धरोहर/पुरातत्वीय महत्व का सील अवस्थित है,	250 मीटर की दूरी में कोई राष्ट्रीय धरोहर नहीं है।	
10	आवेदित क्षेत्र से अन्तराष्ट्रीय सीमा की दूरी क्या है,	लगभग 10 किलो मीटर।	

Anwar
28/03/23
अंचल अमीन, अ
केतार।

Prakash
28/03/23
राजस्व उप निरीक्षक,
HN-IX, III

Anwar
28/03/23
अंचल निरीक्षक,
केतार।

Mishra
28/3/23
अंचल अधिकारी,
केतार।



[Handwritten signature]

[Handwritten signature]

कार्यालय अंचल अधिकारी, केतार (गढ़वा)

ग्राम लोहरगाड़ा एवं मेरौनी अंचल केतार के अन्तर्गत
बालू घाट निर्माण हेतु राजस्व उप निरीक्षक, अंचल निरीक्षक एवं अंचल अमीन के आधार पर जॉच
प्रतिवेदन प्लॉट सं० 1 एवं 2

क सं०	क्षेत्र का प्रकार	क्षेत्रों के भौगोलिक स्थिति	किस्म
1	2	3	4
1	आवेदित क्षेत्र का किस्म क्या है?	मेरौनी प्लॉट 2 लोहरगाड़ा प्लॉट 1	नदी
2	आवेदित क्षेत्र १००० भूमि हो तो किसी के साथ बन्दोबस्त है या नहीं	नहीं	
3	अगर क्षेत्र रैयती है तो संबंधित रैयत की सहमती	भूमि रैयती नहीं है।	
4	क्या 250 मीटर की परिधि में कोई मावन बसावट (आवादी 200 व्यक्ति मकान 40 स्थित है) है या नहीं	250 मीटर की परिधि में कोई मावन बसावट नहीं है।	
5	क्या 250 मीटर की दूरी कोई डेम है,	250 मीटर की दूरी में कोई डेम नहीं है।	
6	क्या 500 मीटर की दूरी में कोई पूल है।	500 मीटर की दूरी में कोई पूल नहीं है।	
7	क्या 250 मीटर की परिधि में कोई शैक्षणिक संस्थान है,	250 मीटर की दूरी में कोई शैक्षणिक संस्थान नहीं है,	
8	क्या 250 मीटर की दूरी में कोई चिकित्सालय है,	250 की दूरी में कोई चिकित्सालय नहीं है।	
9	क्या 250 मीटर दूरी के अन्दर कोई राष्ट्रीय धरोहर/पुरातत्वीय महत्व का सील अवस्थित है,	250 मीटर की दूरी में कोई राष्ट्रीय धरोहर नहीं है।	
10	आवेदित क्षेत्र से अन्तराष्ट्रीय सीमा की दूरी क्या है,	लगभग 10 किलो मीटर।	

Ami
28/03/2023
अंचल अमीन,
केतार।

Ami
28/3/23
राजस्व उप निरीक्षक,

Ami
28/3/23
अंचल निरीक्षक,
केतार।

Ami
28.3.2023
अंचल अधिकारी,
केतार।



Ami

A

कार्यालय अंचल अधिकारी, केतार (गढवा)

ग्राम परतीकुशवानी के अन्तर्गत बालू घाट निर्माण हेतु राजस्व उप निरीक्षक, अंचल निरीक्षक एवं अंचल अमीन के आधार पर जाँच प्रतिवेदन खाता सं० 302 प्लॉट 2766,2774

क सं०	क्षेत्र का प्रकार	क्षेत्रों के भौगोलिक स्थिति	किस्म
1	2	3	4
1	अरवेदित क्षेत्र का किस्म क्या है?	नदी प्लॉट सं० 2765, 2766 वन विभाग झारखण्ड सरकार 2774 1 एवं 25	नदी नदी सोन नदी
2	आवेदित क्षेत्र गै०म० भूमि हो तो किसी के साथ बन्दोबस्त है या नहीं	किसी के साथ बन्दोबस्त नहीं है।	
3	अगर क्षेत्र रैयती है तो संबंधित रैयत की सहमती	भूमि रैयती नहीं है।	
4	क्या 250 मीटर की परिधि में कोई मानव बसावट है या नहीं	250 मीटर की परिधि में कोई मानव बसावट नहीं है।	
5	क्या 250 मीटर की दूरी कोई डेम है,	250 मीटर की दूरी में कोई डेम नहीं है।	
6	क्या 500 मीटर की दूरी में कोई पूल है।	500 मीटर की दूरी में कोई पूल नहीं है।	
7	क्या 250 मीटर की परिधि में कोई शैक्षणिक संस्थान है,	250 मीटर की दूरी में कोई शैक्षणिक संस्थान नहीं है,	
8	क्या 250 मीटर की दूरी में कोई चिकित्सालय है,	250 की दूरी में कोई चिकित्सालय नहीं है।	
9	क्या 250 मीटर दूरी के अन्दर कोई राष्ट्रीय धरोहर/पुरातत्वीय महत्व का सील अवस्थित है,	250 मीटर की दूरी में कोई राष्ट्रीय धरोहर नहीं है।	
10	आवेदित क्षेत्र से अन्तराष्ट्रीय सीमा की दूरी क्या है,	लगभग 10 किलो मीटर।	

Amran
28/03/23
अंचल अमीन,
केतार।

Nraha
28/3/23
राजस्व उप निरीक्षक

Nraha
28/3/23
अंचल निरीक्षक
केतार।

Muk
28/3/23
अंचल अधिकारी,
केतार।



कार्यालय अंचल अधिकारी, केतार (गढवा)

ग्राम पाचाडुमर के अन्तर्गत बालू घाट निर्माण हेतु राजस्व उप निरीक्षक, अंचल निरीक्षक एवं अंचल अमीन के आधार पर जाँच प्रतिवेदन प्लॉट 129

क सं०	क्षेत्र का प्रकार	क्षेत्रों के भौगोलिक स्थिति	किस्म
		3	4
1	2		
1	आवेदित क्षेत्र का किस्म क्या है?	प्लॉट 129,130,131 2363	सोन नदी नदी
2	आवेदित क्षेत्र गै०म० भूमि हो तो किसी के साथ बन्दोबस्त है या नहीं	किसी के साथ बन्दोबस्त नहीं है।	
3	अगर क्षेत्र रैयती है तो संबंधित रैयत की सहमती	भूमि रैयती नहीं है।	
4	क्या 250 मीटर की परिधि में कोई मावन बसावट है या नहीं	250 मीटर की परिधि में कोई मावन बसावट नहीं है।	
5	क्या 250 मीटर की दूरी कोई डेम है,	250 मीटर की दूरी में कोई डेम नहीं है।	
6	क्या 500 मीटर की दूरी में कोई पूल है।	500 मीटर की दूरी में कोई पूल नहीं है।	
7	क्या 250 मीटर की परिधि में कोई शैक्षणिक संस्थान है,	250 मीटर की दूरी में कोई शैक्षणिक संस्थान नहीं है,	
8	क्या 250 मीटर की दूरी में कोई चिकित्सालय है,	250 की दूरी में कोई चिकित्सालय नहीं है।	
9	क्या 250 मीटर दूरी के अन्दर कोई राष्ट्रीय धरोहर/पुरातत्वीय महत्व का सील अवस्थित है,	250 मीटर की दूरी में कोई राष्ट्रीय धरोहर नहीं है।	
10	आवेदित क्षेत्र से अन्तराष्ट्रीय सीमा की दूरी क्या है,	लगभग 10 किलो मीटर।	

Ami
28/03/23
अंचल अमीन,
केतार।

Ami
28/3/23
राजस्व उप निरीक्षक,

Ami
28/3/23
अंचल निरीक्षक,
केतार।

Ami
28-3-2023
अंचल अधिकारी,
केतार।



Ami

A

कार्यालय अंचल अधिकारी, केतार (गढ़वा)

ग्राम मुनमुन के अन्तर्गत बालू घाट निर्माण हेतु राजस्व उप निरीक्षक, अंचल निरीक्षक एवं अंचल अमीन :
आधार पर जाँच प्रतिवेदन प्लॉट 01 एवं 02

क सं०	क्षेत्र का प्रकार	क्षेत्रों के भौगोलिक स्थिति	किस्म
1	2	3	4
1	अरवेदित क्षेत्र का किस्म क्या है?	नदी प्लॉट सं० 01 एवं 02	सोन नदी
2	आवेदित क्षेत्र गै०म० भूमि हो तो किसी के साथ बन्दोबस्त है या नहीं	किसी के साथ बन्दोबस्त नहीं है।	
3	अगर क्षेत्र रैयती है तो संबंधित रैयत की सहमती	भूमि रैयती नहीं है।	
4	क्या 250 मीटर की परिधि में कोई मानव बसावट है या नहीं	250 मीटर की परिधि में कोई मानव बसावट नहीं है।	
5	क्या 250 मीटर की दूरी कोई डेम है,	250 मीटर की दूरी में कोई डेम नहीं है।	
6	क्या 500 मीटर की दूरी में कोई पूल है।	500 मीटर की दूरी में कोई पूल नहीं है।	
7	क्या 250 मीटर की परिधि में कोई शैक्षणिक संस्थान है,	250 मीटर की दूरी में कोई शैक्षणिक संस्थान नहीं है,	
8	क्या 250 मीटर की दूरी में कोई चिकित्सालय है,	250 की दूरी में कोई चिकित्सालय नहीं है।	
9	क्या 250 मीटर दूरी के अन्दर कोई राष्ट्रीय धरोहर/पुरातत्वीय महत्व का सील अवस्थित है,	250 मीटर की दूरी में कोई राष्ट्रीय धरोहर नहीं है।	
10	आवेदित क्षेत्र से अन्तराष्ट्रीय सीमा की दूरी क्या है,	लगभग 10 किलो मीटर।	

Anwar
28-3-23
अंचल अमीन,
केतार।

N.P.A.
28/3/23
राजस्व उप निरीक्षक
A.D.F.

N.P.A.
28/3/23
अंचल निरीक्षक,
केतार।

Mul
28/3/23
अंचल अधिकारी,
केतार।



क.सि.

A

कार्यालय अंचल अधिकारी, केतार (गढवा)

ग्राम गम्हरिया, चॉन्डीह, बीजडीह, अंचल केतार के अन्तर्गत
बालू घाट निर्माण हेतु राजस्व उप निरीक्षक, अंचल निरीक्षक एवं अंचल अमीन के आधार पर जाँच
प्रतिवेदन।

क सं०	क्षेत्र का प्रकार	क्षेत्रों के भौगोलिक स्थिति	किस्म
1	2	3	4
1	आवेदित क्षेत्र का किस्म क्या है?	गम्हरिया प्लॉट 1 चॉन्डीह प्लॉट 1 एवं 2 बीजडीह प्लॉट 1 एवं 2	सोन नदी
2	आवेदित क्षेत्र गै0म0 भूमि हो तो किसी के साथ बन्दोबस्त है या नहीं	किसी के साथ बन्दोबस्त नहीं है।	
3	अगर क्षेत्र रैयती है तो संबंधित रैयत की सहमती	भूमि रैयती नहीं है।	
4	क्या 250 मीटर की परिधि में कोई मानव बसावट है या नहीं	250 मीटर की परिधि में कोई मानव बसावट नहीं है।	
5	क्या 250 मीटर की दूरी कोई डेम है,	250 मीटर की दूरी में कोई डेम नहीं है।	
6	क्या 500 मीटर की दूरी में कोई पूल है।	500 मीटर की दूरी में कोई पूल नहीं है।	
7	क्या 250 मीटर की परिधि में कोई शैक्षणिक संस्थान है,	250 मीटर की दूरी में कोई शैक्षणिक संस्थान नहीं है,	
8	क्या 250 मीटर की दूरी में कोई चिकित्सालय है,	250 की दूरी में कोई चिकित्सालय नहीं है।	
9	क्या 250 मीटर दूरी के अन्दर कोई राष्ट्रीय धरोहर/पुरातत्वीय महत्व का स्थल अवस्थित है,	250 मीटर की दूरी में कोई राष्ट्रीय धरोहर नहीं है।	
10	आवेदित क्षेत्र से अन्तराष्ट्रीय सीमा की दूरी क्या है,	लगभग 10 किलो मीटर।	

Amir
28/03/2023
अंचल अमीन,
केतार।

Raj
28/3/23
राजस्व उप निरीक्षक,
केतार।

Raj
अंचल निरीक्षक,
केतार।

MU
28-3-2023
अंचल अधिकारी,
केतार।



Handwritten signature

Handwritten signature

कार्यालय अंचल अधिकारी, खरौधी।

पत्रांक 97 दिनांक 29.03.2023

प्रेषक,

अंचल अधिकारी,
खरौधी।

सेवा में,

सहायक खनन पदाधिकारी
गडवा।

विषय -

मौजा चंदना थाना संख्या 02 अंचल खरौधी के प्लॉट सं 01 के क्षेत्र पर बालू घाट के संचालन हेतु जॉब प्रतिवेदन का प्रेषण।

प्रसंग -

भवदीय पत्रांक 389/एम0 दिनांक 22.03.2023

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के संबंध में कहना है कि हाल सर्वे खतियान के अनुसार मौजा चंदना के खाता सं 56 प्लॉट सं 01 रकबा 231.50ए0 भूमि अनावार झारखण्ड सरकार किस्म सोन नदी है।

मौजा चंदना अंचल खरौधी के खाता संख्या 56 प्लॉट सं 01 पर मांगी गयी 10 विन्दुओं का प्रतिवेदन

निम्नवत है -

क्र०सं०	प्रश्न	उत्तर
1	आवदित क्षेत्र का किस्म क्या है ?	आनावार झारखण्ड सरकार, सोन नदी
2	आवदित क्षेत्र गैरमजकूआ खास भूमि हो तो किसी के साथ बंदावस्त है या नहीं ?	नहीं
3	अगर क्षेत्र रयता हो तो सवधित रयत का सहमति आवदक को है या नहीं ?	क्षेत्र गैरमजकूआ खास अनावार झारखण्ड सरकार है।
4	क्या 250मी० की परिधि में कोई मानव बसाहट(आवदी) 200 व्यक्ति/40 मकान स्थित है?	नहीं
5	क्या 250मी० की दूरी के अन्दर कोई डैम है ?	नहीं
6	क्या 250मी० की दूरी के अन्दर में कोई पुल अवस्थित है?	नहीं
7	क्या 250मी० की परिधि में कोई शैक्षणिक संस्थान स्थित है?	नहीं
8	क्या 250मी० की परिधि में कोई चिकित्सालय स्थित है?	नहीं
9	क्या 250मी० की दूरी के अन्दर में कोई राष्ट्रीय धराहर/ पुरात्वीय महत्व के स्थल स्थित है?	नहीं
10	आवदित क्षेत्र से अन्तराज्यीय सीमा की दूरी क्या है?	प्लॉट संख्या 01 से सट 30प्र० की सीमा है।

राजस्व उपनिरीक्षक एवं अंचल निरीक्षक से प्राप्त प्रतिवेदन की प्रति संलग्न कर अग्रतर कार्रवाई हेतु उपलब्ध करायी जा रही है।

प्रतिवेदन सादर सूचनार्थ सनर्पित।

विश्वासभाजन

अंचल अधिकारी
खरौधी।
29/03/23



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कार्यालय अंचल अधिकारी, खरौंघी।

पत्रांक.....96.....दिनांक.29.03.2023

प्रेषक,

अंचल अधिकारी,
खरौंघी।

सेवा में,

सहायक खनन पदाधिकारी
गढवा।

विषय:-

मौजा पिपरा थाना संख्या 03 प्लॉट संख्या 152 अंचल खरौंघी के बालू घाट संचालन के संबंध में जाँच प्रतिवेदन का प्रेषण।

प्रसंग:-

भवदीय पत्रांक 389/एम0 दिनांक 22.03.2023

महाशय,

उपरोक्त विषयक प्रासंगिक पत्र के संबंध में कहना है कि आपके द्वारा उल्लेखित भूमि हाल सर्वे मौजा पिपरा अंचल खरौंघी के खाता संख्या 72 प्लॉट संख्या 152 रकबा 126.00ए0 (एक सौ छवीस एकड) भूमि अनावार झारखण्ड सरकार किस्म सोन नदी है।

मौजा पिपरा अंचल खरौंघी के खाता संख्या 72 प्लॉट संख्या 152 पर मांगी गयी 10 विन्दुओं का प्रतिवेदन निम्नवत है:-

क्र० सं०	प्रश्न	उत्तर
1	आवेदित क्षेत्र का किस्म क्या है ?	अनावार झारखण्ड सरकार, सोन नदी
2	आवेदित क्षेत्र गैरमजरूआ खास भूमि हो तो किसी के साथ बंदोबस्त है या नहीं ?	नहीं
3	अगर क्षेत्र रैयती हो तो संबंधित रैयत का सहमति आवेदक को है या नहीं ?	क्षेत्र गैरमजरूआ खास अनावार झारखण्ड सरकार है।
4	क्या 250मी० की परिधि में कोई मानव बसाहट(आवादी क्षेत्र) 200 व्यक्ति/40 मकान स्थित है?	नहीं
5	क्या 250मी० की दूरी के अन्दर कोई डैम है ?	नहीं
6	क्या 250मी० की दूरी के अन्दर कोई पुल अवस्थित है?	नहीं
7	क्या 250मी० की परिधि में कोई शैक्षणिक संस्थान स्थित है?	नहीं
8	क्या 250मी० की परिधि में कोई चिकित्सालय स्थित है?	नहीं
9	क्या 250मी० की दूरी के अन्दर कोई राष्ट्रीय धरोहर/ पुरातवीय महत्व के स्थल स्थित है?	नहीं
10	आवेदित क्षेत्र से अन्तराज्यीय सीमा की दूरी क्या है?	प्लॉट 152 से सटे उ०प्र० की सीमा है।

राजस्व उपनिरीक्षक एवं अंचल निरीक्षक से प्राप्त प्रतिवेदन की प्रति संलग्न कर अग्रेतर कार्रवाई हेतु उपलब्ध करायी जा रही है।

प्रतिवेदन सादर सूचनाार्थ समर्पित।

विश्वासभाजन

JCS

अंचल अधिकारी

खरौंघी।

29/03/23



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कार्यालय अंचल अधिकारी, खरौंघी।

पत्रांक.....१४.....दिनांक 29.03.23

प्रेषक,

अंचल अधिकारी,
खरौंघी।

सेवा में,

सहायक खनन पदाधिकारी
गढ़वा।

विषय-

गौजा खोखा थाना संख्या 01 प्लॉट संख्या 01 अंचल खरौंघी के बालू घाट संचालन के संबंध में जॉच प्रतिवेदन का प्रेषण।

प्रसंग:-

भवदीय पत्रांक 389/एम0 दिनांक 22.03.2023

महाशय,

उपर्युक्त विषयक प्रारंभिक पत्र के संबंध में कहना है कि हाल सर्वे खतियान के अनुसार गौजा खोखा के खाता संख्या 50 प्लॉट संख्या 01 रकबा 170.05ए0 भूमि अनावार झारखण्ड सरकार किस्म सोन नदी है।
गौजा खोखा अंचल खरौंघी के खाता संख्या 50 प्लॉट संख्या 01 पर मांगी गयी 10 बिन्दुओं का प्रतिवेदन निम्नवत है:-

क्र० सं०	प्रश्न	उत्तर
1	आवेदित क्षेत्र का किस्म क्या है ?	अनावार झारखण्ड सरकार, सोन नदी
2	आवेदित क्षेत्र गैरमजरूआ खास भूमि हो तो किसी के साथ बंदोबस्त है या नहीं ?	नहीं
3	अगर क्षेत्र रेयतो हो तो संबंधित रेयत का सहगति आवेदक को है या नहीं ?	क्षेत्र गैरमजरूआ खास अनावार झारखण्ड सरकार है।
4	क्या 250मी0 की परिधि में कोई मानव बसाहट(आवादी क्षेत्र) 200 व्यक्ति/40 मकान स्थित है?	नहीं
5	क्या 250मी0 की दूरी के अन्दर कोई डैम है ?	नहीं
6	क्या 250मी0 की दूरी के अन्दर में कोई पुल अवस्थित है?	नहीं
7	क्या 250मी0 की परिधि में कोई शैक्षणिक संस्थान स्थित है?	नहीं
8	क्या 250मी0 की परिधि में कोई चिकित्सालय स्थित है?	नहीं
9	क्या 250मी0 की दूरी के अन्दर में कोई राष्ट्रीय धरोहर/ पुरात्वोय महत्व के स्थल स्थित है?	नहीं
10	आवेदित क्षेत्र से अन्तराज्यीय सीमा की दूरी क्या है?	प्लॉट 01 से सटे उ0प्र0 की सीमा है।

राजस्व उपनिरीक्षक एवं अंचल निरीक्षक से प्राप्त प्रतिवेदन की प्रति संलग्न कर अग्रतर कार्रवाई हेतु उपलब्ध करायी जा रही है।
प्रतिवेदन सादर सूचनार्थ समर्पित।

विश्वासभाजन

STG

अंचल अधिकारी
खरौंघी।
29/03/23

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कार्यालय : अंचल अधिकारी, रंका

पत्रांक...147.../दिनांक 28.3.23

प्रेषक,
28/3/2023

अंचल अधिकारी,
रंका।

सेवा में,

जिला/सहायक खनन पदाधिकारी,
गढ़वा।

विषय : रंका अंचल अर्न्तगत चिन्हित बालू घाटों का जाँच प्रतिवेदन भेजने के संबंध में।

प्रसंग :- आपका पत्रांक 376/एम0, दिनांक 21.03.2023

महाशय,

उपर्युक्त विषयक प्रसंगाधीन पत्र के आलोक कहना है कि आपके द्वारा रंका अंचल अर्न्तगत चार बालू घाटों मौजा दुधवल प्लॉट सं0 743, मौजा अनहर प्लॉट सं0 826 एवं 01, मौजा सिरोई उर्फ बेलवादांमर, प्लॉट सं0 857, मौजा चुटिया, प्लॉट सं0 1421 तथा मौजा भौरी, प्लॉट सं0 997 को क्षेत्र कनहर नदी पर चिन्हित कर जिला सर्वेक्षण रिपोर्ट (DSR) बालू खनिज में शामिल कराने हेतु निम्न बिन्दुओं पर उक्त बालू घाट का जाँच प्रतिवेदन की मांग की गई है जिसकी जाँच राजस्व उप निरीक्षक एवं अंचल अमीन तथा अंचल निरीक्षक से कराकर इस पत्र के साथ भेजी जा रही है।

पर्यावरणीय स्वीकृति हेतु बिन्दुवार प्रतिवेदन निम्नांकित है :-

क्र०सं०	बिन्दुवार प्रतिवेदन	अनुपालन प्रतिवेदन
1	आवेदित क्षेत्र का किस्म क्या है	नदी
2	क्या आवेदित भूमि गैरमजरूआ खास भूमि हो तो किसी के साथ बन्दोवस्त है या नहीं	नहीं
3	अगर क्षेत्र रैयती हो तो संबंधित रैयत का सहमति आवेदक को है या नहीं	नहीं
4	क्या 250 मी० की परिधि में कोई मानव बसाईट (Habitation)(आवादी 200 व्यक्ति/मकान-40) स्थित है	नहीं
5	क्या 250 मी० की दूरी के अंदर में कोई डैम (Dam, Resevior) है	नहीं
6	क्या 500 मी० की दूरी के अंदर में कोई पुल अवस्थित है	नहीं
7	क्या 250 मी० की परिधि में कोई शैक्षणिक संस्थान (Educational Institute) है	नहीं
8	क्या 250 मी० की परिधि में में कोई चिकित्सालय (Hospital) स्थित है	नहीं
9	क्या 250 मी० की दूरी के अंदर में कोई कोई राष्ट्रीय धरोहर/पुरातत्वीय (Monuments/Archaeological) महत्व के स्थल स्थित है	नहीं
10	आवेदित क्षेत्र से अर्न्तराजीय सीमा की दूरी क्या है	15 मीटर

अतः प्रतिवेदन अग्रेतर कार्रवाई हेतु सादर समर्पित।



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विश्वासभाजन

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अंचल अधिकारी

रंका।
28-3-23

सेवा में:

अंचल अधिकारी
रैका।

विषय :- रैका अंचल अंतर्गत मौजा- दुधवल, अनहर एवं बेलवाकामर
में चिह्नित बालू धारों का जॉन प्रतिवेदन।

प्रति

प्रसंग :- जिला खनन कार्यालय गढवा के पत्रांक- 376 दिनांक- 21.03.2023
महोदय

उपर्युक्त विषयक प्रसंगाधीन के आलोक में सूचित करना
है कि जिला खनन कार्यालय गढवा द्वारा प्राप्त आवेदन का खनन जॉन,
राजस्व कागजात से मिलान एवं ग्रामीणों से प्रस्ताव किया। जानोपर्यंत
पाया कि ① मौजा दुधवल पाना स^{ख्या 86} 12 जॉट स^{प्रस्तावित} 743 रकबा- 2.83 हे^०
किस्म जमीन- नदी एवं ② मौजा अनहर पाना स^{ख्या 53} 34 जॉट स^{प्रस्तावित} 01 रकबा-
प्रस्तावित - 2.00 हे^० किस्म जमीन- नदी एवं ③ मौजा- अनहर जॉट
स^{ख्या 83} 670/826 के सिरोंई उर्फ बेलवाकामर के खाना स^{प्रस्तावित} 110 जॉट
स^{ख्या 857} होने गोव मिलाऊ प्रस्तावित रकबा- 3.86 हे^० किस्म
जमीन- नदी, उक्त सभी जॉटों की श्रमि अ स्वतंत्र आवाक
विस्तार/आखण्ड सरका के नाम परचना है।

जिला क्षेत्रीय रिपोर्ट (DSR) बालू खनिज में
शामिल करने हेतु आवश्यक बिन्दुओं का जॉन प्रतिवेदन
निम्नलिखित है: -

- ① आवेदित क्षेत्र अ किस्म नदी है।
- ② आवेदित क्षेत्र गैरमजसूख खाल श्रमि है परन्तु किछी के साथ
बंदोस्त नहीं है।
- ③ उक्त क्षेत्र रेयरी नहीं है।

रैका

A



- ④ 250 मी की परिधि में कोई मानव बसाहट नहीं है।
- ⑤ 250 मी की दूरी के अंदर में कोई डेम नहीं है।
- ⑥ 500 मी की दूरी के अंदर कोई पुल अवस्थित नहीं है।
- ⑦ 250 मी की परिधि में कोई शैक्षणिक संस्थान स्थित नहीं है।
- ⑧ 250 मी की परिधि में कोई चिकित्सालय नहीं है।
- ⑨ 250 मी की दूरी के अंदर में कोई राष्ट्रीय धरोहर / पुरातत्व महत्व के स्थल स्थित नहीं है।
- ⑩ आवेदित क्षेत्र से अंतरराज्यीय सीमा की दूरी लगभग 15 मी है।

अग्रेतर कार्रवाई हेतु साइट पर्याप्त है।
 ज्ञात प्रतिवेदन अनुरोधों

[Signature]
 28/03/2023

Rst
 H.H. Jha

नोट:- प्रस्तावित चमि के
 सम्बंधित अनुरोध अर्जन
 का देश भ्रमण प्रतिवेदन के
 साथ संलग्न है।

वेरिफाई
 28/03/2023
 G.



[Signature]

[Signature]

सेवा में,

अंचल अधिकारी
रेंका

विषय: रेंका अंचल अंतर्गत ग्राम-पुटिया, भौरी के निम्न
वालू प्यार का जांच प्रतिवेदन

प्रस्ताव,

DA
B
28/03/20

उपरोक्त विषय के संबंध में कलना है कि ग्राम-
पुटिया एवं भौरी के कनहर नदी पर निम्न
वालू प्यार का स्थल निरीक्षण, राजस्व कार्यालय
के जिलान एवं ग्रामियों के सुझाव कि गोचोपरान्त
जाया है हाल सर्वे के अनुसार ग्राम-पुटिया के
खाना संख्या - 217 प्लॉट संख्या - 1421 कुल खेत - 12.50 एकड़
ग्राम का आनलाईन गांव अनावाद विहार सरकार के
नाम पर दर्ज है खतियान में 3 एकड़ प्लॉट का किस्क जमीन
नदी के दर्ज है। हाल सर्वे के अनुसार ग्राम-भौरी के खाना
संख्या - 169 प्लॉट संख्या - 997 खेत - 41.62 एकड़
ग्राम का आनलाईन गांव अनावाद विहार सरकार के नाम
पर दर्ज है ग्राम पुटिया, भौरी का प्रस्तावित वालू प्यार का कुल खेत - 1.52 हे. है
जिला सर्वेक्षण रिपोर्ट (DSR) वालू खेत में शामिल कराते
है। नोटेस में वर्णित विन्दुओं का 3 एकड़ वालू प्यार
का जांच प्रतिवेदन निम्न प्रकार से है:-

1. आवेदित क्षेत्र ग्राम-पुटिया के प्लॉट संख्या 1421
का खतियान में किस्क जमीन नदी दर्ज है तथा
ग्राम-भौरी के प्लॉट संख्या - 997 का किस्क जमीन
खतियान में नदी कनहर दर्ज है।
2. आवेदित क्षेत्र गैरगठनवा साव प्रवि है किसी के मान्य
एन्डोक्स नहीं है।
3. आवेदित क्षेत्र रेंकनी नहीं है।
4. 750 मीटर की परिधि में मानव वडाएट (habitation)
आवासी 200 चक्कर। मकान - 40 स्थित नहीं है।
5. 250 मीटर की दूरी के कंदर में कोई एड्डे (Reservoir) नहीं है।



(Signature) A

6. 500 मीटर की दूरी के अंदर में कोई पुल नहीं है।
7. 250 मीटर की परिसर में कोई शैक्षणिक संस्थान (Educational Institute) स्थित नहीं है।
8. 250 मीटर की परिसर में कोई न्यूनिकलालय (Hospital) स्थित नहीं है।
9. 250 मीटर की दूरी के अंदर में कोई राष्ट्रीय परोदर / पुरातत्विक (Monuments / Archaeological) जटल के स्थल स्थित नहीं है।
10. आवेदन क्षेत्र से सर्वराज्पीय कीला की दूरी लगभग 13 मीटर है।

अंचल अमीन के द्वारा आवेदन क्षेत्र का दूरी जांचा जांच किया गया है।
जांच प्रतिवेदन अग्रतर का रवाई हेतु मादर
स्तनधिन।

Amal
28/03/2023

R-S.I
M.N-5

28/03/2023



Handwritten signature and the letter 'A'.

10/8



मशीन नाम - दुधवत चार्ज नं० ३
थाना नं० - १२ थाना - रंका
अंचल - रंका जिला - जहखण्ड
क्षेत्रफल " २१ मील
उपस्थित कालु पाट लालु एच के फर्दिनका
समक्षे



र.स. डालमन
सन - १६६२-६३

खाना खाना
२६ - ६४२ - २-२३

(Signature)
28/3/2023
अंचल अधिकारी (रंका)

(Signature)
28/3/23



(Signature)
28/3/23

(Signature)

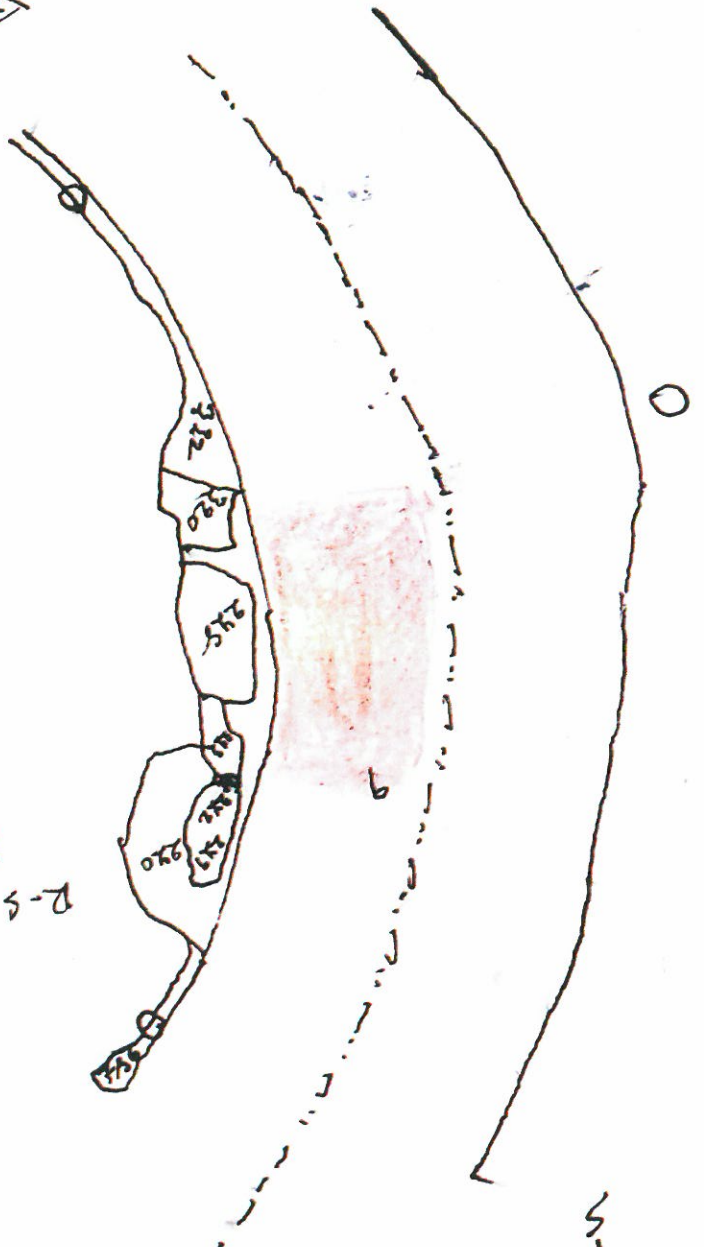
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28/03/23

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28/03/2023
28/03/2023



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कार्यालय अंचल अधिकारी, धुरकी

पत्रांक- 183 दिनांक - 28/03/2023

प्रेषक,

अंचल अधिकारी,
धुरकी।

सेवा में,

सहायक खनन पदाधिकारी,
गढ़वा।

विषय :- धुरकी अंचल अंतर्गत चिन्हित बालू घाटों का जाँच प्रतिवेदन का प्रेषण।

प्रसंग :- भवदीय पत्रांक 377/एम0, दिनांक 21.03.2023

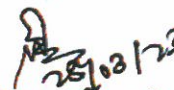
महाशय,

उपर्युक्त विषयक प्रसांगिक पत्र के संबंध में कहना है कि धुरकी अंचल अंतर्गत चिन्हित बालू घाट 1. मौजा माछपानी, थाना नं0 168, प्लॉट 114 एवं प्लॉट नं0 23 कुल रकबा 7.00 हे0, 2. मौजा माछपानी, थाना नं0 168, प्लॉट 23 रकबा 1.56 हे0 3. मौजा भुईफोर, थाना नं0 159, प्लॉट नं0 763 एवं मौजा मडरे उर्फ फेफसा, थाना नं0 160, प्लॉट 425, रकबा 0.89 हे0, 3. मौजा लिबरा उर्फ परासपानी कला, थाना नं0 164, प्लॉट नं0 61 कुल रकबा 0.82 हे0, 4. मौजा लिबरा उर्फ परासपानी कला, थाना नं0 164, प्लॉट नं0 2364 कुल रकबा 15.05 हे0, 5. मौजा मुढपुर उर्फ पंचफेरी, थाना नं0 165, प्लॉट नं0 01, रकबा 15.05 हे0, 6. मौजा मुढपुर उर्फ पंचफेरी, थाना नं0 165, प्लॉट नं0 93, रकबा 2.99 हे0 क्षेत्र कनहर नदी पर चिन्हित बालू घाटों का मौजावार जाँच प्रतिवेदन विहित प्रपत्र में तैयार किया गया है जिसे इस पत्र के साथ संलग्न कर भेजी जा रही है।

कृपया प्राप्ति स्वीकार किया जाय।

अनुलग्नक :- यथोक्त।

विश्वासभाजन


28/03/23
अंचल अधिकारी
धुरकी।





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मौजा	खाता	प्लॉट	पत्र में वर्णित रकबा	कुल खतियानी रकबा
पंचफेड़ी	19	93	2.99 हे०	49.86 एकड़

1. आवेदित भूमि का किस्म क्या है ? :- नदी कनहर (गैरमजरूआ खास)
2. आवेदित क्षेत्र गैरमजरूवा खास भूमि हो तो किसी के साथ बन्दोबस्त है या नहीं ? :- किसी रैयत के साथ बंदोबस्त नहीं है
3. अगर क्षेत्र रैयती हो तो संबंधित रैयत का सहमति आवेदन है या नहीं ? :- क्षेत्र रैयती नहीं है
4. क्या 250 मी० की परिधि में कोई मानव बसाईट (Habitation) (आवादी 200 व्यक्ति/मकान 40) स्थित है ? :- 250 मी० की परिधि में कोई मानव बसाईट नहीं है।
5. क्या 250 मी० की दूरी के अंदर में कोई (Dam, Resevior) है ? :- 250 मी० की दूरी के अंदर में कोई (Dam, Resevior) नहीं है।
6. क्या 500 मी० की दूरी के अंदर में कोई पुल अवस्थित है ? :- 500 मी० की दूरी के अंदर में कोई पुल नहीं है।
7. क्या 250 मी० की परिधि में कोई शैक्षणिक संस्थान (Educational Institute) स्थित है ? :- 250 मी० की परिधि में कोई शैक्षणिक संस्थान स्थित नहीं है।
8. क्या 250 मी० की परिधि में कोई चिकित्सालय (Hospital) स्थित है ? :- 250 मी० की परिधि में कोई चिकित्सालय स्थित नहीं है।
9. क्या 250 मी० की परिधि में कोई राष्ट्रीय धरोहर/पुरातत्वीय (Monuments/Archaeological) महत्व के स्थल स्थित है ? :- 250 मी० की परिधि में कोई राष्ट्रीय धरोहर/पुरातत्वीय महत्व के स्थल स्थित नहीं है।
10. आवेदित क्षेत्र से अन्तर्राज्यीय सीमा की दूरी क्या है ? :- आवेदित क्षेत्र से अन्तर्राज्यीय सीमा की दूरी 50 मीटर है।

[Signature]
राजस्व उप निरीक्षक,
धुरकी।

[Signature]
अंचल निरीक्षक,
धुरकी।

[Signature]
अंचल अधिकारी,
धुरकी।



[Signature]

[Signature]

मौजा
पंचफेड़ी

खाता
19

प्लॉट
01

पत्र में वर्णित रकबा
15.05 हे०

कुल खतियानी रकबा
36.94 एकड़

1. आवेदित भूमि का किस्म क्या है ? :- नदी कनहर (गैरमजरूआ खास)
2. आवेदित क्षेत्र गैरमजरूवा खास भूमि हो तो किसी के साथ बन्दोबस्त है या नहीं ? :- किसी रैयत के साथ बंदोबस्त नहीं है
3. अगर क्षेत्र रैयती हो तो संबंधित रैयत का सहमति आवेदन है या नहीं ? :- क्षेत्र रैयती नहीं है
4. क्या 250 मी० की परिधि में कोई मानव बसाईट (Habitation) (आवादी 200 व्यक्ति/मकान 40) स्थित है ? :- 250 मी० की परिधि में कोई मानव बसाईट नहीं है।
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6. क्या 500 मी० की दूरी के अंदर में कोई पुल अवस्थित है ? :- 500 मी० की दूरी के अंदर में कोई पुल नहीं है।
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10. आवेदित क्षेत्र से अन्तर्राज्यीय सीमा की दूरी क्या है ? :- आवेदित क्षेत्र से अन्तर्राज्यीय सीमा की दूरी 50 मीटर है।

Sum
28/03/23
राजस्व उप निरीक्षक,
धुरकी।

Sum
28/03/23
अंचल निरीक्षक,
धुरकी।

Sum
28/03/23
अंचल अधिकारी,
धुरकी।



Sum

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मौजा	खाता	प्लॉट	पत्र में वर्णित रकबा	कुल खतियानी रकबा
परासपानी कला	124	61	0.82 हे०	39.80 एकड़

1. आवेदित भूमि का किस्म क्या है ? :- नदी (गैरमजरूआ खास)
2. आवेदित क्षेत्र गैरमजरूवा खास भूमि हो तो किसी के साथ बन्दोबस्त है या नहीं ? :- किसी रैयत के साथ बंदोबस्त नहीं है
3. अगर क्षेत्र रैयती हो तो संबंधित रैयत का सहमति आवेदन है या नहीं ? :- क्षेत्र रैयती नहीं है
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[Signature]
28/03/23
राजस्व उप निरीक्षक,
धुरकी।

[Signature]
अंचल निरीक्षक,
धुरकी।

[Signature]
28/03/23
अंचल अधिकारी,
धुरकी।




[Signature]


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मौजा	खाता	प्लॉट	पत्र में वर्णित रकबा	कुल खतियानी रकबा
परासपानी कला	124	2364	15.05 हे०	40.50 एकड़

1. आवेदित भूमि का किस्म क्या है ? :- नदी (गैरमजरूआ खास)
2. आवेदित क्षेत्र गैरमजरूवा खास भूमि हो तो किसी के साथ बन्दोबस्त है या नहीं ? :- किसी रैयत के साथ बंदोबस्त नहीं है
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9. क्या 250 मी० की परिधि में कोई राष्ट्रीय धरोहर/पुरातत्वीय (Monuments/Archaeological) महत्व के स्थल स्थित है ? :- 250 मी० की परिधि में कोई राष्ट्रीय धरोहर/पुरातत्वीय महत्व के स्थल स्थित नहीं है।
10. आवेदित क्षेत्र से अन्तर्राज्यीय सीमा की दूरी क्या है ? :- आवेदित क्षेत्र से अन्तर्राज्यीय सीमा की दूरी 50 मीटर है।


राजस्व उप निरीक्षक,
धुरकी।


अंचल निरीक्षक,
धुरकी।


अंचल अधिकारी,
धुरकी।







मौजा	खाता	प्लॉट	पत्र में वर्णित रकबा	कुल खतियानी रकबा
माछपानी	6	114	7.00 हे०	22.94 एकड़
		23	1.56 हे०	72.56 एकड़

1. आवेदित भूमि का किस्म क्या है ? :- नदी (गैरमजरूआ खास)
2. आवेदित क्षेत्र गैरमजरूवा खास भूमि हो तो किसी के साथ बन्दोबस्त है या नहीं ? :- किसी रैयत के साथ बंदोबस्त नहीं है
3. अगर क्षेत्र रैयती हो तो संबंधित रैयत का सहमति आवेदन है या नहीं ? :- क्षेत्र रैयती नहीं है
4. क्या 250 मी० की परिधि में कोई मानव बसाईट (Habitation) (आवादी 200 व्यक्ति/मकान 40) स्थित है ? :- 250 मी० की परिधि में कोई मानव बसाईट नहीं है।
5. क्या 250 मी० की दूरी के अंदर में कोई (Dam, Resevior) है ? :- 250 मी० की दूरी के अंदर में कोई (Dam, Resevior) नहीं है।
6. क्या 500 मी० की दूरी के अंदर में कोई पुल अवस्थित है ? :- 500 मी० की दूरी के अंदर में कोई पुल नहीं है।
7. क्या 250 मी० की परिधि में कोई शैक्षणिक संस्थान (Educational Institute) स्थित है ? :- 250 मी० की परिधि में कोई शैक्षणिक संस्थान स्थित नहीं है।
8. क्या 250 मी० की परिधि में कोई चिकित्सालय (Hospital) स्थित है ? :- 250 मी० की परिधि में कोई चिकित्सालय स्थित नहीं है।
9. क्या 250 मी० की परिधि में कोई राष्ट्रीय धरोहर/पुरातत्वीय (Monuments/Archaeological) महत्व के स्थल स्थित है ? :- 250 मी० की परिधि में कोई राष्ट्रीय धरोहर/पुरातत्वीय महत्व के स्थल स्थित नहीं है।
10. आवेदित क्षेत्र से अन्तराज्यीय सीमा की दूरी क्या है ? :- आवेदित क्षेत्र से अन्तराज्यीय सीमा की दूरी 60 मीटर है।

RST
RST 27/3/2023
राजस्व उप निरीक्षक,
धुरकी।

27/3/23
अंचल निरीक्षक,
धुरकी।

27/3/23
अंचल अधिकारी,
धुरकी।



A

मौजा
भुईफोर


खाता
42

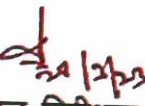
प्लॉट
763

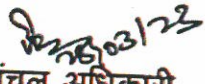
पत्र में वर्णित रकबा
-

कुल खतियानी रकबा
30.50 एकड़

1. आवेदित भूमि का किस्म क्या है ? :- नदी (गैरमजरुआ खास)
2. आवेदित क्षेत्र गैरमजरुवा खास भूमि हो तो किसी के साथ बन्दोबस्त है या नहीं ? :- किसी रैयत के साथ बंदोबस्त नहीं है
3. अगर क्षेत्र रैयती हो तो संबंधित रैयत का सहमति आवेदन है या नहीं ? :- क्षेत्र रैयती नहीं है
4. क्या 250 मी० की परिधि में कोई मानव बसाईट (Habitation) (आवादी 200 व्यक्ति/मकान 40) स्थित है ? :- 250 मी० की परिधि में कोई मानव बसाईट नहीं है।
5. क्या 250 मी० की दूरी के अंदर में कोई (Dam, Resevior) है ? :- 250 मी० की दूरी के अंदर में कोई (Dam, Resevior) नहीं है।
6. क्या 500 मी० की दूरी के अंदर में कोई पुल अवस्थित है ? :- 500 मी० की दूरी के अंदर में कोई पुल नहीं है।
7. क्या 250 मी० की परिधि में कोई शैक्षणिक संस्थान (Educational Institute) स्थित है ? :- 250 मी० की परिधि में कोई शैक्षणिक संस्थान स्थित नहीं है।
8. क्या 250 मी० की परिधि में कोई चिकित्सालय (Hospital) स्थित है ? :- 250 मी० की परिधि में कोई चिकित्सालय स्थित नहीं है।
9. क्या 250 मी० की परिधि में कोई राष्ट्रीय धरोहर/पुरातत्वीय (Monuments/Archaeological) महत्व के स्थल स्थित है ? :- 250 मी० की परिधि में कोई राष्ट्रीय धरोहर/पुरातत्वीय महत्व के स्थल स्थित नहीं है।
10. आवेदित क्षेत्र से अन्तराज्यीय सीमा की दूरी क्या है ? :- आवेदित क्षेत्र से अन्तराज्यीय सीमा की दूरी 100 मीटर है।


राजस्व उप निरीक्षक,
धुरकी।


अंचल निरीक्षक,
धुरकी।


अंचल अधिकारी,
धुरकी।







मौजा
फेफसा

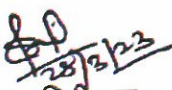
खाता
13

प्लॉट
425

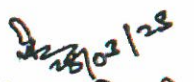
पत्र में वर्णित रकबा
0.89 हे०

कुल खतियानी रकबा
11.30 एकड़

1. आवेदित भूमि का किस्म क्या है ? :- नदी (गैरमजरूआ खास)
2. आवेदित क्षेत्र गैरमजरूवा खास भूमि हो तो किरसी के साथ बन्दोबस्त है या नहीं ? :- किसी रैयत के साथ बंदोबस्त नहीं है
3. अगर क्षेत्र रैयती हो तो संबंधित रैयत का सहमति आवेदन है या नहीं ? :- क्षेत्र रैयती नहीं है
4. क्या 250 मी० की परिधि में कोई मानव बसाईट (Habitation) (आवादी 200 व्यक्ति/मकान 40) स्थित है ? :- 250 मी० की परिधि में कोई मानव बसाईट नहीं है।
5. क्या 250 मी० की दूरी के अंदर में कोई (Dam, Resevior) है ? :- 250 मी० की दूरी के अंदर में कोई (Dam, Resevior) नहीं है।
6. क्या 500 मी० की दूरी के अंदर में कोई पुल अवस्थित है ? :- 500 मी० की दूरी के अंदर में कोई पुल नहीं है।
7. क्या 250 मी० की परिधि में कोई शैक्षणिक संस्थान (Educational Institute) स्थित है ? :- 250 मी० की परिधि में कोई शैक्षणिक संस्थान स्थित नहीं है।
8. क्या 250 मी० की परिधि में कोई चिकित्सालय (Hospital) स्थित है ? :- 250 मी० की परिधि में कोई चिकित्सालय स्थित नहीं है।
9. क्या 250 मी० की परिधि में कोई राष्ट्रीय धरोहर/पुरातत्वीय (Monuments/Archaeological) महत्व के स्थल स्थित है ? :- 250 मी० की परिधि में कोई राष्ट्रीय धरोहर/पुरातत्वीय महत्व के स्थल स्थित नहीं है।
10. आवेदित क्षेत्र से अन्तराज्यीय सीमा की दूरी क्या है ? :- आवेदित क्षेत्र से अन्तराज्यीय सीमा की दूरी 100 मीटर है।


राजस्व उप निरीक्षक,
धुरकी।


अंचल निरीक्षक,
धुरकी।


अंचल अधिकारी,
धुरकी।





A

अंचल अधिकारी का कार्यालय, मेराल (गढ़वा)।

पत्रांक.....174...../ मेराल, दिनांक.....29.03.2023

प्रेषक,

अंचल अधिकारी,
मेराल (गढ़वा)।

सेवा में,

सहायक खनन पदाधिकारी,
गढ़वा।

विषय :- मौजा-अटौला एवं बाजुडीह के प्लॉट नं०-1767 एवं 01 का जॉच प्रतिवेदन का प्रेषण।

प्रसंग :- जिला खनन कार्या० गढ़वा का पत्रांक 372/एम०, दिनांक 21.03.2023

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के संबंध में सूचित करना है कि मेराल अंचल अन्तर्गत मौजा-अटौला एवं बाजुडीह के प्लॉट नं०-1767 एवं 01 का बालू घाटों का जॉच प्रतिवेदन की मांग की गई है।

उक्त के आलोक में संबंधित राजस्व उप निरीक्षक एवं अंचल निरीक्षक से जॉच कराई गई। विन्दुवार प्रतिवेदन निम्नवत है:-

क्र०सं०	1	अटौला	बाजुडीह
1	आवेदित क्षेत्र का किस्म क्या है ?	गैरमजरूआ मालिक, नदी	गैरमजरूआ मालिक, नदी
2	आवेदित क्षेत्र गैरमजरूआ खास भूमि होतो किसी के साथ बन्दोबस्त है या नहीं ?	नहीं।	नहीं।
3	अगर क्षेत्र रैयती हो तो संबंधित रैयत का सहमति आवेदक को है या नहीं है ?	-	-
4	क्या 250 मी० की परिधि में कोई मानव बसाहट है या नहीं ?	नहीं।	हाँ
5	क्या 250 मी० की दूरी के अन्दर कोई डैम है ?	नहीं।	नहीं।
6	क्या 500 मी० की दूरी के अन्दर कोई पुल अवस्थित है ?	नहीं।	नहीं।
7	क्या 250 मी० की परिधि में कोई शैक्षणिक संस्थान स्थित है।	नहीं।	नहीं।
8.	क्या 250 मी० की परिधि में कोई चिकित्सालय स्थित है ?	नहीं।	नहीं।
9.	क्या 250 मी० की दूरी के अन्दर कोई राष्ट्रीय धरोहर/पुस्तकालय महत्व के स्थल है ?	नहीं।	देवी मंदीर एवं शिव मंदीर
10	आवेदित क्षेत्र से अन्तरराज्यी सीमा की दूरी क्या है ?	लगभग 60 कि०मी०।	लगभग 60 कि०मी०।

प्रतिवेदन सूचनार्थ प्रेषित।



विश्वासभाजन

29/03/2023
अंचल अधिकारी,

मेराल (गढ़वा)।

29/03/2023

Khanan -Meral 176

A

कार्यालय अंचल अधिकारी मझिआँव ।

पत्रांक...198..... दिनांक...28.03.2023

प्रेषक, अंचल अधिकारी,
मझिआँव ।

सेवा में, सहायक खनन पदाधिकारी,
गढवा ।

विषय:- मझिआँव अंचल अंतर्गत चिन्हित बालू घाटो का जांच प्रतिवेदन का प्रेषण ।

प्रसंग:- आपका पत्रांक 375/एम0 दिनांक 21.03.2023 ।


महाशय,

उपर्युक्त विषयक प्रसंगाधीन पत्र के संबंध में कहना है कि मझिआँव अंचल अंतर्गत छः चिन्हित बालू घाट (1) मौजा आमर छेछरीया थाना सं0 139, प्लॉट सं0 2243 एवं मौजा खजुरी नावडीह थाना सं0 138 प्लॉट सं0 2934 रकबा 22.05 हे0 (2) मौजा मोरवे थाना सं0 182 प्लॉट सं0 2453 एवं 1591 एवं मौजा खरसोता थाना सं0 176 प्लॉट सं0 3456 कुल रकबा 47.7 हे0 (3) मौजा खरसोता थाना सं0 176 प्लॉट सं0 3456 एवं 3457 (अंश भाग) मौजा बुढखाड थाना सं0 175 प्लॉट सं0 454, 13 एवं 14 कुल रकबा 57.6 हे0 (4) मौजा मझिआँव खुर्द थाना सं0 145, प्लॉट सं0 605 एवं मौजा मझिआँव कला थाना सं0 144 प्लॉट सं0 1174 रकबा 10.9 हे0 (5) मौजा मझिआँव कला थाना सं0 144, प्लॉट सं0 1174 रकबा 20.9 हे0 (6) मौजा बकोईया थाना सं0 141, प्लॉट सं0 917 एवं 1549 एवं मौजा छेरीयाहा थाना सं0 140 प्लॉट सं0 146 रकबा 4.38 हे0 क्षेत्र कोयल नदी पर बालू घाट संचालन हेतु उक्त सभी भू-खण्डों का बिन्दूवार जांच प्रतिवेदन मूल रूप में इस पत्र के साथ संलग्न कर भेजा जा रहा है ।

कृपया प्राप्ति स्वीकार किया जाय ।

अनुलग्नक- यथोक्त

विश्वासभाजन


अंचल अधिकारी,
मझिआँव ।







सेवा में,

अंचल अधिकारी,
मझिआंव।

विषय:- मौजा आमर छेछरीया के प्लॉट सं० 2243 के रकबा 27.25 ए० क्षेत्र पत्र बालू घाट के संचालन हेतु जांच प्रतिवेदन का प्रेषण।

महाशय,

उपर्युक्त विषय के संबंध में सूचित करना है कि मौजा आमर छेछरीया के प्लॉट सं० 2243 के रकबा 27.25 एकड़ क्षेत्र का जांच किया। बालू घाट के संचालन हेतु जांच प्रतिवेदन विंदुवार निम्नवत है:-

1. आवेदित क्षेत्र का किस्म क्या है ? नदी
2. आवेदित क्षेत्र गैरमजरूआ खास भूमि हो तो किसी के साथ बन्दोवस्त है या नहीं ? नहीं
3. अगर क्षेत्र रैयती हो तो संबंधित रैयत का सहमति आवेदक को है या नहीं ?
4. क्या 250 मी० की परिधि में कोई मानव बसाहट (Habitation) (आवादी 200 व्यक्ति/मकान-40) स्थित है ? नहीं
5. क्या 250 मी० की दूरी के अंदर में कोई डैम (Dam, Resevion) है ? नहीं
6. क्या 500 मी० की दूरी के अंदर में कोई पुल अवस्थित है ? नहीं
7. क्या 250 मी० की परिधि में कोई शैक्षणिक संस्थान (Education Institute) अवस्थित है ? नहीं
8. क्या 250 मी० की परिधि में कोई चिकित्सालय (Hospital) अवस्थित है ? नहीं
9. क्या 250 मी० दूरी के अन्दर में कोई राष्ट्रीय धरोहर/पुरात्त्ववीय (Monuments/Archaeological) महत्व के स्थल स्थित है ? नहीं
10. आवेदित क्षेत्र से अन्तरराज्यीय सीमा की दूरी क्या है ? लगभग 42 कि०मी०

आनावाद झारखण्ड सरकार
(गैरमजरूआ खास) भूमि है।



विश्वासभाजन

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28/8/2023
अंचल अधिकारी
मझिआंव

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सेवा में,

अंचल अधिकारी,
मझिऑव।

विषय:- मौजा खजुरी नवाडीह के प्लॉट सं० 2934 के रकबा 40 ए० क्षेत्र पत्र बालू घाट के संचालन हेतु जाँच प्रतिवेदन का प्रेषण।

महाशय,

उपर्युक्त विषय के संबंध में सूचित करना है कि मौजा खजुरी नवाडीह के प्लॉट सं० 2934 के रकबा 40 एकड़ क्षेत्र का जाँच किया। बालू घाट के संचालन हेतु जाँच प्रतिवेदन विंदुवार निम्नवत है:-

1. आवेदित क्षेत्र का किस्म क्या है ? नदी
2. आवेदित क्षेत्र गैरमजरूआ खास भूमि हो तो किसी के साथ बन्दोवस्त है या नहीं ? नहीं
3. अगर क्षेत्र रैयती हो तो संबंधित रैयत का सहमति आवेदक को है या नहीं ? आनावाद झारखण्ड सरकार (गैरमजरूआ खास) भूमि है।
4. क्या 250 मी० की परिधि में कोई मानव बसाहट (Habitation) (आबादी 200 व्यक्ति/मकान-40) स्थित है ? नहीं
5. क्या 250 मी० की दूरी के अंदर में कोई डैम (Dam, Resevion) है ? नहीं
6. क्या 500 मी० की दूरी के अंदर में कोई पुल अवस्थित है ? नहीं
7. क्या 250 मी० की परिधि में कोई शैक्षणिक संस्थान (Education Institute) अवस्थित है ? नहीं
8. क्या 250 मी० की परिधि में कोई चिकित्सालय (Hospital) अवस्थित है ? नहीं
9. क्या 250 मी० दूरी के अन्दर में कोई राष्ट्रीय धरोहर/पुरात्तवीय (Monuments/Archaeological) महत्व के स्थल स्थित है ? नहीं
10. आवेदित क्षेत्र से अन्तरराज्यीय सीमा की दूरी क्या है ? लगभग 44 कि०मी०



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अंचल अधिकारी,
मझिऑव।

विषय:- मौजा मोरबे के प्लॉट सं० 2453 एवं 1591 के रकबा 29 एवं 30 एकड़ क्षेत्र पत्र बालू घाट के संचालन हेतु जाँच प्रतिवेदन का प्रेषण।
महाशय,

उपर्युक्त विषय के संबंध में सूचित करना है कि मौजा मोरबे के प्लॉट सं० 2453 एवं 1591 के रकबा 29 एवं 30 एकड़ क्षेत्र पत्र बालू घाट के संचालन हेतु जाँच प्रतिवेदन विंदुवार निम्नवत है:-

1. आवेदित क्षेत्र का किस्म क्या है ? नदी
2. आवेदित क्षेत्र गैरमजरूआ खास भूमि हो तो किसी के साथ बन्दोवस्त है या नहीं ? नहीं
3. अगर क्षेत्र रैयती हो तो संबंधित रैयत का सहमति आवेदक को है या नहीं ? सम्बंधित नहीं है
4. क्या 250 मी० की परिधि में कोई मानव बसाहट (Habitation) (आबादी 200 व्यक्ति/मकान-40) स्थित है ? नहीं
5. क्या 250 मी० की दूरी के अंदर में कोई डैम (Dam, Resevion) है ? नहीं
6. क्या 500 मी० की दूरी के अंदर में कोई पुल अवस्थित है ? नहीं
7. क्या 250 मी० की परिधि में कोई शैक्षणिक संस्थान (Education Institute) अवस्थित है ? नहीं
8. क्या 250 मी० की परिधि में कोई चिकित्सालय (Hospital) अवस्थित है ? नहीं
9. क्या 250 मी० दूरी के अन्दर में कोई राष्ट्रीय धरोहर/पुरात्तवीय (Monuments/Archaeological) महत्व के स्थल स्थित है ? नहीं
10. आवेदित क्षेत्र से अन्तरराज्यीय सीमा की दूरी क्या है ? लगभग 25 कि०मी०



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28/03/23
अंचल अधिकारी
मझिऑव

सेवा में,

अंचल अधिकारी,
मझिऑव।

विषय:- मौजा खरसोतो के प्लॉट सं0 3456 एवं 3457 के रकबा 29 एवं 29 एकड़ क्षेत्र पत्र बालू घाट के संचालन हेतु जॉच प्रतिवेदन का प्रेषण।

महाशय,

उपर्युक्त विषय के संबंध में सूचित करना है कि मौजा खरसोता के प्लॉट सं0 3456 एवं 3457 के रकबा 29 एवं 29 एकड़ क्षेत्र पत्र बालू घाट के संचालन हेतु जॉच प्रतिवेदन बिंदुवार निम्नवत है:-

1. आवेदित क्षेत्र का किस्म क्या है ? नदी
2. आवेदित क्षेत्र गैरमजरूआ खास भूमि हो तो किसी के साथ बन्दोवस्त है या नहीं ? नहीं
3. अगर क्षेत्र रैयती हो तो संबंधित रैयत का सहमति आवेदक को है या नहीं ? सम्बंधित नहीं है
4. क्या 250 मी0 की परिधि में कोई मानव बसाहट (Habitation) (आवादी 200 व्यक्ति/मकान-40) स्थित है ? नहीं
5. क्या 250 मी0 की दूरी के अंदर में कोई डैम (Dam, Resevion) है ? नहीं
6. क्या 500 मी0 की दूरी के अंदर में कोई पुल अवस्थित है ? नहीं
7. क्या 250 मी0 की परिधि में कोई शैक्षणिक संस्थान (Education Institute) अवस्थित है ? नहीं
8. क्या 250 मी0 की परिधि में कोई चिकित्सालय (Hospital) अवस्थित है ? नहीं
9. क्या 250 मी0 दूरी के अन्दर में कोई राष्ट्रीय धरोहर/पुरात्तवीय (Monuments/Archaeological) महत्व के स्थल स्थित है ? नहीं
10. आवेदित क्षेत्र से अन्तरराज्यीय सीमा की दूरी क्या है ? लगभग 30 कि0मी0



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विश्वासभाजन

28/03/23

28/03/23

अंचल अधिकारी
मझिऑव

सेवा में,

अंचल अधिकारी,
मझिऑव।

विषय:- मौजा बुढीखाड़ के प्लॉट सं0 454 एवं 1314 के रकबा 60 एकड़ क्षेत्र पत्र बालू घाट के संचालन हेतु जॉच प्रतिवेदन का प्रेषण।

महाशय,

उपर्युक्त विषय के संबंध में सूचित करना है कि बुढीखाड़ के प्लॉट सं0 454 एवं 1314 (13 एवं 14) के रकबा 60 एकड़ क्षेत्र पत्र बालू घाट के संचालन हेतु जॉच प्रतिवेदन विंदुवार निम्नवत है:-

1. आवेदित क्षेत्र का किस्म क्या है ? नदी
2. आवेदित क्षेत्र गैरमजरूआ खास भूमि हो तो किसी के साथ बन्दोवस्त है या नहीं ? नहीं
3. अगर क्षेत्र रैयती हो तो संबंधित रैयत का सहमति आवेदक को है या नहीं ? आनावाद झारखण्ड सरकार (गैरमजरूआ खास) भूमि है।
4. क्या 250 मी0 की परिधि में कोई मानव बसाहट (Habitation) (आबादी 200 व्यक्ति/मकान-40) स्थित है ? नहीं
5. क्या 250 मी0 की दूरी के अंदर में कोई डैम (Dam, Resevion) है ? नहीं
6. क्या 500 मी0 की दूरी के अंदर में कोई पुल अवस्थित है ? नहीं
7. क्या 250 मी0 की परिधि में कोई शैक्षणिक संस्थान (Education Institute) अवस्थित है ? नहीं
8. क्या 250 मी0 की परिधि में कोई चिकित्सालय (Hospital) अवस्थित है ? नहीं
9. क्या 250 मी0 दूरी के अन्दर में कोई राष्ट्रीय धरोहर/पुरात्तवीय (Monuments/Archaeological) महत्व के स्थल स्थित है ? नहीं
10. आवेदित क्षेत्र से अन्तरराज्यीय सीमा की दूरी क्या है ? लगभग 35 कि0मी0



अ.क.र.

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28/03/23
विश्वासभाजन

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ce

अंचल अधिकारी
मझिऑव

सेवा में,

अंचल अधिकारी,
मझिआँव।

विषय:- मौजा मझिआँव खुर्द के प्लॉट सं० 605 के रकबा 71 एकड़ क्षेत्र पत्र बालू घाट के संचालन हेतु जाँच प्रतिवेदन का प्रेषण।

महाशय,

उपर्युक्त विषय के संबंध में सूचित करना है कि मौजा मझिआँव खुर्द के प्लॉट सं० 605 के रकबा 71 एकड़ क्षेत्र पत्र बालू घाट के संचालन हेतु जाँच प्रतिवेदन विंदुवार निम्नवत है:-

1. आवेदित क्षेत्र का किस्म क्या है ? नदी
2. आवेदित क्षेत्र गैरमजरुआ खास भूमि हो तो किसी के साथ बन्दोवस्त है या नहीं ? नहीं
3. अगर क्षेत्र रैयती हो तो संबंधित रैयत का सहमति आवेदक को है या नहीं ? आनावाद झारखण्ड सरकार (गैरमजरुआ खास) भूमि है।
4. क्या 250 मी० की परिधि में कोई मानव बसाहट (Habitation) (आबादी 200 व्यक्ति/मकान-40) स्थित है ? नहीं
5. क्या 250 मी० की दूरी के अंदर में कोई डैम (Dam, Resevion) है ? नहीं
6. क्या 500 मी० की दूरी के अंदर में कोई पुल अवस्थित है ? नहीं
7. क्या 250 मी० की परिधि में कोई शैक्षणिक संस्थान (Education Institute) अवस्थित है ? नहीं
8. क्या 250 मी० की परिधि में कोई चिकित्सालय (Hospital) अवस्थित है ? नहीं
9. क्या 250 मी० दूरी के अन्दर में कोई राष्ट्रीय धरोहर/पुरात्तवीय (Monuments/Archaeological) महत्व के स्थल स्थित है ? नहीं
10. आवेदित क्षेत्र से अन्तरराज्यीय सीमा की दूरी क्या है ? लगभग 38 कि०मी०



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सेवा में,

अंचल अधिकारी,
मझिऑव।

विषय:- मौजा मझिऑव कला के प्लॉट सं० 1174 के रकबा 30 ए० क्षेत्र पत्र बालू घाट के संचालन हेतु जॉच प्रतिवेदन का प्रेषण।
महाशय,

उपर्युक्त विषय के संबंध में सूचित करना है कि मौजा मझिऑव कला के प्लॉट सं० 1174 के रकबा 30 एकड़ क्षेत्र का जॉच किया। बालू घाट के संचालन हेतु जॉच प्रतिवेदन बिंदुवार निम्नवत है:-

1. आवेदित क्षेत्र का किस्म क्या है ? नाला
2. आवेदित क्षेत्र गैरमजरुआ खास भूमि हो तो किसी के साथ बन्दोवस्त है या नहीं ? नहीं
3. अगर क्षेत्र रैयती हो तो संबंधित रैयत का सहमति आवेदक को है या नहीं ? आनावाद झारखण्ड सरकार (गैरमजरुआ खास) भूमि है।
4. क्या 250 मी० की परिधि में कोई मानव बसाहट (Habitation) (आवादी 200 व्यक्ति/मकान-40) स्थित है ? नहीं
5. क्या 250 मी० की दूरी के अंदर में कोई डैम (Dam, Resevion) है ? नहीं
6. क्या 500 मी० की दूरी के अंदर में कोई पुल अवस्थित है ? नहीं
7. क्या 250 मी० की परिधि में कोई शैक्षणिक संस्थान (Education Institute) अवस्थित है ? नहीं
8. क्या 250 मी० की परिधि में कोई चिकित्सालय (Hospital) अवस्थित है ? नहीं
9. क्या 250 मी० दूरी के अन्दर में कोई राष्ट्रीय धरोहर/पुरात्तवीय (Monuments/Archaeological) महत्व के स्थल स्थित है ? नहीं
10. आवेदित क्षेत्र से अन्तरराज्यीय सीमा की दूरी क्या है ? लगभग 40 कि०मी०



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मझिऑव

सेवा में.

अंचल अधिकारी,
मझिआंव।

विषय:- मौजा बकोईया के प्लॉट सं० 917 एवं 1549 के रकबा 15.50 एवं 70.51 ए० क्षेत्र पत्र बालू घाट के संचालन हेतु जॉच प्रतिवेदन का प्रेषण।

महाशय,

उपर्युक्त विषय के संबंध में सूचित करना है कि मौजा बकोईया के प्लॉट सं० 917 एवं 1549 के रकबा 15.50 एवं 70.51 एकड़ क्षेत्र का जॉच किया। बालू घाट के संचालन हेतु जॉच प्रतिवेदन विंदुवार निम्नवत है:-

1. आवेदित क्षेत्र का किस्म क्या है ? नदी
2. आवेदित क्षेत्र गैरमजरुआ खास भूमि हो तो किसी के साथ बन्दोवस्त है या नहीं ? नहीं
3. अगर क्षेत्र रैयती हो तो संबंधित रैयत का सहमति आवेदक को है या नहीं ? आनावाद झारखण्ड सरकार (गैरमजरुआ खास) भूमि है।
4. क्या 250 मी० की परिधि में कोई मानव वसाहत (Habitation) (आबादी 200 व्यक्ति/मकान-40) स्थित है ? नहीं
5. क्या 250 मी० की दूरी के अंदर में कोई डैम (Dam, Resevion) है ? नहीं
6. क्या 500 मी० की दूरी के अंदर में कोई पुल अवस्थित है ? नहीं
7. क्या 250 मी० की परिधि में कोई शैक्षणिक संस्थान (Education Institute) अवस्थित है ? नहीं
8. क्या 250 मी० की परिधि में कोई चिकित्सालय (Hospital) अवस्थित है ? नहीं
9. क्या 250 मी० दूरी के अन्दर में कोई राष्ट्रीय धरोहर/पुरात्तवीय (Monuments/Archaeological) महत्व के स्थल स्थित है ? नहीं
10. आवेदित क्षेत्र से अन्तरराज्यीय सीमा की दूरी क्या है ? लगभग 40 कि०मी०



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मझिआंव

विश्वासभाजन

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28/03/23
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सेज में,

अंचल अधिकारी,
मझिआँव।

विषय:- मौजा छेरीयाहा के प्लॉट सं0 146 के रकबा 4 ए0 क्षेत्र पत्र बालू घाट के संचालन हेतु जाँच प्रतिवेदन का प्रेषण।

महाशय,

उपर्युक्त विषय के संबंध में सूचित करना है कि मौजा छेरीयाहा के प्लॉट सं0 146 के रकबा 4 एकड़ क्षेत्र का जाँच किया। बालू घाट के संचालन हेतु जाँच प्रतिवेदन बिंदुवार निम्नवत है:-

11. आवेदित क्षेत्र का किस्म क्या है ? नदी
12. आवेदित क्षेत्र गैरमजरुआ खास भूमि हो तो किसी के साथ बन्दोवस्त है या नहीं ? नहीं
13. अगर क्षेत्र रैयती हो तो संबंधित रैयत का सहमति आवेदक को है या नहीं ? आनावाद झारखण्ड सरकार (गैरमजरुआ खास) भूमि है।
14. क्या 250 मी0 की परिधि में कोई मानव बसाहट (Habitation) (आवादी 200 व्यक्ति/मकान-40) स्थित है ? नहीं
15. क्या 250 मी0 की दूरी के अंदर में कोई डैम (Dam, Resevion) है ? नहीं
16. क्या 500 मी0 की दूरी के अंदर में कोई पुल अवस्थित है ? नहीं
17. क्या 250 मी0 की परिधि में कोई शैक्षणिक संस्थान (Education Institute) अवस्थित है ? नहीं
18. क्या 250 मी0 की परिधि में कोई चिकित्सालय (Hospital) अवस्थित है ? नहीं
19. क्या 250 मी0 दूरी के अन्दर में कोई राष्ट्रीय धरोहर/पुरात्तवीय (Monuments/Archaeological) महत्व के स्थल स्थित है ? नहीं
20. आवेदित क्षेत्र से अन्तरराज्यीय सीमा की दूरी क्या है ? लगभग 41 कि0मी0



विश्वासभाजन

28/03/23
27-09-23

28/03/23
cei

अंचल अधिकारी
मझिआँव



Department of Forest, Environment and Climate Change

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

Name Of Applicant	Sri Nanddeo Baithu	Contact no.:	8210375628
Institution Type	Government		
Email ID	dmo-garhwa@jharkhandmail.gov.in		
	Location of Proposed Land		
District	Garhwa	Battery Point	Dhashani
Thana No.:	144	Thana Name:	Bhandariya / Raska
Khata No.:	NA	Khesra Name:	01
		Range Forest Officer	Divisional Forest Officer
#	Checkpoint		
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? ^{more than}	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? *	Yes	Yes
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	No	No

Note :- Distance of Battery point (Project Area location) from Notified Reserve forest/Protected forest is zero (0) metre. Project area is adjacent to notified plot no. 02 of Dhasani PF (Thana No-144)

Division DFO Garwa South
Letter No. 857
Date of issue 28.03.2023
Signature S. Sumel
Name SHASHI KUMAR

Comments :-

Comments regarding SI No- 3,4 & 5 is based on the records of Jharkhand State. Battery Point (Project Area location) is located within Kanhar River. Area situated west of Kanhar River falls under the jurisdiction of Balarampur District (Old Sarguja District) for which no document is available in this Division. ^{Chhattisgarh State}

Divisional Forest Officer

S. Sumel
28/03/2023



[Signature]

A



Government of Jharkhand

Department of Forest, Environment and Climate Change

Permission Letter : LETTER20230328

Acknowledgment No: SWSFST25032023a26a3

Issue Date: 28-03-2023

Name Of Applicant :

Sri Nanddeo Baitha

Email ID :

dmo-garhwa@jharkhandmail.gov.in

Contact no.: 8210375628

Report of Distance from Forest, Forest Reserve and Sanctuary

SNo	Checkpoint	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m?	No
2	Whether Project location come under 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?	Yes
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)?	No

Note :- Distance of Battery point (Project Area location) from Notified Reserve forest/Protected forest is zero (0) metre. Project area is adjacent to notified plot no. 02 of Dhasani PF (Thana No-144)

Name : SHASHI KUMAR

Designation : D.F.O. GARHWA(S)

Signature : Shashi Kumar

The certificate to be issued by the Divisional Forest Officer of the respective Divisions and upload

Comments :-

Comments regarding SI No- 3,4 & 5 is based on the records of Jharkhand State. Battery Point (Project Area location) is located within Kanhar River. Area situated west of Kanhar River falls under the jurisdiction of Balampur District (Old Sarguja District) for which no document is available in this Division.

SI

Shashi Kumar

A





Department of Forest, Environment and Climate Change

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

Name Of Applicant	Sri Nanddeo Baitha	Contact no.:	8210375628
Institution Type	Government		
Email ID	dmo-garhwa@jharkhandmail.gov.in		
	Location of Proposed Land		
District	Garhwa	Battery Point	Janewa
Thana No.:	143	Thana Name:	Bhandariya / <i>Ranika</i>
Khata No.:	NA	Khesra Name:	646,1384
		Range Forest Officer	Divisional Forest Officer
#	Checkpoint		
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? <i>more than</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? *	No	No
5	Does there any ESZ available within 10 km distance from project location? *	Yes	Yes
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	No	No

Note :- Distance of Battery point (Project Area location) from Notified Reserve forest/Protected forest is not more than 50 metre. It is very close to Notified cadastral plot no- 217, 242 of Janewa PF (Thana No-143)

Division DFO Garwa South
Letter No. 858
Date of issue 28.03.2023
Signature *S. Kumar*
Name SHASHI KUMAR

Comments :-

Comments regarding SI No- 3,4 & 5 is based on the records of Jharkhand State. Battery Point (Project Area location) is located within Kanhar River. Area situated west of Kanhar River falls under the jurisdiction of Balampur District (Old Sarguja District) of Chattisgarh for which no document is available in this Division.

Divisional Forest Officer

S. Kumar



S. Kumar

A

Government of Jharkhand

Department of Forest, Environment and Climate Change

Permission Letter : LETTER20230328

Acknowledgment No: SWSFST2503202328c32

Name Of Applicant :

Sri Nandco Baitha

Issue Date: 28-03-2023

Email ID :

dmo-garliwa@jharkhandmail.gov.in

Contact no.:

8210375628

Report of Distance from Forest, Forest Reserve and Sanctuary

SNo

Checkpoint

Divisional Forest Officer

1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m?	No
2	Whether Project location come under 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?	Yes
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)?	No

Name : SHASHI KUMAR

Designation : D.F.O. Garhwa

Signature : [Signature]

Note :- Distance of Battery point (Project Area location) from Notified Reserve forest/Protected forest is not more than 50 metre. It is very close to Notified cadastral plot no- 217, 242 of Janewa PF (Thana No-143)

*The certificate to be issued by the Divisional Forest Officer of the respective Divisions and upload

Comments :-

Comments regarding SI No- 3,4 & 5 is based on the records of Jharkhand State. Battery Point (Project Area location) is located within Kanhar River. Area situated west of Kanhar River falls under the jurisdiction of Balampur District (Old Sarguja District) of Chattisgarh for which no document is available in this Division.



[Signature]

[Signature]

[Signature]

Department of Forest, Environment and Climate Change

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

Name Of Applicant SRI NANDDEO BAITHA
Institution Type Government
Email ID dmo-garhwa@jharkhandmail.gov.in
Contact no.: 8210375628
Location of Proposed Land

District Garhwa
Thana No.: 160
Battery Point Thana Name: MANDRE ALIAS PHEPSA DHURKI
Khata No.: NA
Khesra Name: 425,AREA-0-89HA

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

More than

Note: - Ref Ack No. SWSFST25032023bbdc6 The Distance from nearest forest to the battery point is less than 250 meters.

Division DFO, Garhwa North
 Letter No. 613
 Date of issue 28.3.23
 Signature [Signature]
 Name [Signature]

[Signature]
 28.3.23
 Divisional Forest Officer
 Garhwa North Division

Divisional Forest Officer
 Divisional Forest Officer
 Garhwa North Division



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Inspection Report of Distance from Forest, Forest Reserve and Sanctuary

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

SRI NANDDEO BAITHA
Government
dmo-garhwa@jharkhandmail.gov.in

Contact no: 8210375628

District
Thana No.:
Khata No.:

Garhwa
168
NA

Location of Proposed Land

Battery Point
Thana Name: MACHHPANI
Khesra Name: DHURKI
23,AREA-1-56HA

#	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? <i>More than</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? *	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

Note: - Ref Ack No. SWSFST25032023998c0 The Distance from nearest forest to the battery point is less than 250 meters.

Division DFO, Garhwa North

Letter No. 614

Date of issue 28.3.23

Signature

Name

Datta
28.3.23
Divisional Forest Officer
Garhwa North Division

Divisional Forest Officer
Divisional Forest Officer
Garhwa North Division



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Inspection Report of Distance from Forest, Forest Reserve and Sanctuary

Department of Forest, Environment and Climate Change

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

Name Of Applicant: SRI NANDDEO BAITHA
 Institution Type: Government
 Email ID: dmo-garhwa@jharkhandmail.gov.in
 Contact no.: 8210375628
 Location of Proposed Land: MACHHPANI DHURKI 114,23,AREA-7HA
 District: Garhwa
 Thana No.: 168
 Khata No.: NA
 Battery Point Thana Name: MACHHPANI DHURKI
 Khesra Name: 114,23,AREA-7HA
 Range Forest Officer: [Signature]
 Divisional Forest Officer: [Signature]

#	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

Note: - Ref Ack No. SWSFST250320239afae The Distance from nearest forest to the battery point is less than 250 meters.

Division: DFO, Garhwa North
 Letter No. 616
 Date of issue: 28.3.23
 Signature: [Signature]
 Name: [Signature]

[Signature]
 Divisional Forest Officer
 Garhwa North Division

Divisional Forest Officer
 Divisional Forest Officer
 Garhwa North Division



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Inspection Report of Distance from Forest, Forest Reserve and Sanctuary

Department of Forest, Environment and Climate Change

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

Name Of Applicant	SRI NANDDEO BAITHA		
Institution Type	Government		
Email ID	dmo-garhwa@jharkhandmail.gov.in	Contact no.:	8210375628
District	Garhwa	Location of Proposed Land	
Thana No.:	164	Battery Point	LIBRA ALIAS PARASPANI KALAN
Khata No.:	NA	Thana Name:	DHURKI
		Khesra Name:	2364,AREA-15-05HA

#	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

More than

Note: - Ref Ack No. SWSFST250320233d734
The Distance from nearest forest to the battery point is less than 250 meters.

Division DFO, Garhwa North
Letter No. 611
Date of issue 28.3.23
Signature _____
Name Raj

Raj
28.3.23
Divisional Forest Officer
Garhwa North Division

Divisional Forest Officer
Divisional Forest Officer
Garhwa North Division



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Inspection Report of Distance from Forest, Forest Reserve and Sanctuary

Department of Forest, Environment and Climate Change

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

Name Of Applicant: SRI NANDDEO BAITHA
 Institution Type: Government
 Email ID: dmo-garhwa@jharkhandmail.gov.in
 Contact no.: 8210375628

Location of Proposed Land

District: Garhwa
 Thana No.: 164
 Khata No.: NA
 Battery Point: LIBRA ALIAS PARASPANI KALAN
 Thana Name: DHURKI
 Khesra Name: 61, AREA-0-8211A

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 |

More than

Note: - Ref Ack No. SWSFST2503202391fdc The Distance from nearest forest to the battery point is less than 250 meters.

Division DFO, Garhwa North

Letter No. 612

Date of issue 28.3.23

Signature

Name [Signature] 28.3.23

[Signature]
28.3.23
Divisional Forest Officer
Garhwa North Division

[Signature]
28.3.23
Divisional Forest Officer
Garhwa North Division



[Signature]

A

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Inspection Report of Distance from Forest, Forest Reserve and Sanctuary

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

SRI NANDDEO BAITHA
Government
dmo-garhwa@jarkhandmail.gov.in

Contact no.: 8210375628

District
Thana No.:
Khata No.:

Garhwa
165
NA

Location of Proposed Land

Battery Point
Thana Name: MURIJIPUR ALIAS PACHPHERI
Khesra Name: DHURKI
93,AREA-2-99HA

#	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? <i>Mix than</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? *	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

Note: - Ref Ack No. SWSFST25032023f2db1 The Distance from nearest forest to the battery point is less than 250 meters.

[Signature]
28.3.23
Divisional Forest Officer
Garhwa North Division

Division DFO, Garhwa North

Letter No. 609

Date of issue 28.3.23

Signature *[Signature]*

Name *[Signature]*
28.3.23

Divisional Forest Officer
Divisional Forest Officer
Garhwa North Division



[Signature]

[Signature]

Department of Forest, Environment and Climate Change

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

Name Of Applicant: SRI NANDDEO BAITHA
 Institution Type: Government
 Email ID: dmo-garhwa@jharkhandmail.gov.in
 Contact no.: 8210375628
 Location of Proposed Land:

District: Garhwa
 Thana No.: 165
 Khata No.: NA
 Battery Point: MURHIPUR ALIAS PACHPHERI
 Thana Name: DHURKI
 Khesra Name: 01, AREA-15-05HA
 Range Forest Officer: [Signature]
 Divisional Forest Officer: [Signature]

#	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

Note: - Ref Ack No. SWSFST250320238e793 The Distance from nearest forest to the battery point is less than 250 meters.

Division. DFO, Garhwa North
 Letter No. 610
 Date of issue 28-3-23
 Signature [Signature]
 Name [Signature] 28-3-23

[Signature]
 28-3-23
 Divisional Forest Officer
 Garhwa North Division

Divisional Forest Officer
 Divisional Forest Officer
 Garhwa North Division



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Inspection Report of Distance from Forest, Forest Reserve and Sanctuary

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

SRI NANDDEO BAITHA
Government
dmo-garhwa@jharkhandmail.gov.in

Contact no.: 8210375628

District
Thana No.:
Khata No.:

Garhwa
159
NA

Location of Proposed Land

Battery Point
Thana Name: BHUINPHORE
Khesra Name: DHURKI
663,AREA-89HA

Range Forest Officer
Divisional Forest Officer

Checkpoint

1. Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? **MORE THAN**
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)? *

No	No
No	No
No	No
No	No
No	No
No	No

Note: - Ref Ack No. SWSFST25032023d1f5b The Distance from nearest forest to the battery point is less than 250 meters.

Division DFO, Garhwa North

Letter No. 615

Date of issue 28.3.23

Signature

Name

Rak
28.3.23
Divisional Forest Officer
Garhwa North Division

Rak
28.3.23
Divisional Forest Officer
Divisional Forest Officer
Garhwa North Division



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Handwritten signature

Department of Forest, Environment and Climate Change

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

Name Of Applicant SRI NANDDEO BAITHA
Institution Type Government
Email ID dmo-garhwa@jharkhandmail.gov.in
Contact no.: 8210375628
Location of Proposed Land

District Garhwa
Battery Point PATSI
Thana No.: 271
Thana Name: GARHWA
Khata No.: NA
Khesra Name: 01,AREA-16-0811A

#	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? *	Yes	Yes
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

more than

Note: - Ref Ack No. SWSFST250320238e313 The Distance from nearest forest to the battery point is more than 250 meters.

Division DFO, Garhwa North

Letter No. 606

Date of issue 28-3-23

Signature

Name Ralk 28-3-23

Divisional Forest Officer
Garhwa North Division

Divisional Forest Officer
Garhwa North Division



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3/28/23, 5:17 PM

Inspection Report of Distance from Forest, Forest Reserve and Sanctuary

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

SRI NANDDEO BAITHA
Government
dmo-garhwa@jharkhandmail.gov.in

Contact no.: 8210375628

District
Thana No.:
Khata No.:

Garhwa
274
NA

Location of Proposed Land

Battery Point
Thana Name: DARMI
Khesra Name: GARHWA
1054,1055

Range Forest Officer
Divisional Forest Officer

- | # | Checkpoint | Yes | No |
|---|---|-----|----|
| 1 | Whether Distance of Project location from Reserved Forest/Protected Forest is ^{more than} 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)? * | | |

Note: - Ref Ack No. SWSFST2503202370bf4 The Distance from nearest forest to the battery point is more than 250 meters.

Division DFO, Garhwa North

Letter No. 605

Date of issue 28.3.23

Signature

Name

[Signature]
28.3.23
Divisional Forest Officer
Garhwa North Division

Divisional Forest Officer
Divisional Forest Officer
Garhwa North Division



[Handwritten signature]

[Handwritten letter 'A']

Department of Forest, Environment and Climate Change

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

Name Of Applicant	SRI NANDDEO BAITHA	Contact no.:	8210375628
Institution Type	Government		
Email ID	dmo-garhwa@jharkhandmail.gov.in		
	Location of Proposed Land		
District	Garhwa	Battery Point	DUMARSOTA
Thana No.:	80	Thana Name:	KANDI
Khata No.:	NA	Khesra Name:	2745,02,01,2994
		Range Forest Officer	Divisional Forest Officer

#

Checkpoint

1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? *	Yes	Yes
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	Yes
5	Does there any ESZ available within 10 km distance from project location? *	Yes	Yes
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	No	No

Note: - Ref Ack No. SWSFST2903202399ba7
The Distance from nearest forest to the battery point is more than 250 meters.

R. M. S.
29.3.23
वन प्रमंडल पदाधिकारी
गढ़वा उत्तरी वन प्रमंडल

Division DFO, Garhwa North

Letter No. C18Date of issue 29.03.2023

Signature

Name

R. M. S.
29.3.23
Divisional Forest Officer
वन प्रमंडल पदाधिकारी
गढ़वा उत्तरी वन प्रमंडल



R. M. S.

A

3/28/23, 5:15 PM

Inspection Report of Distance from Forest, Forest Reserve and Sanctuary

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

SRI NANDDEO BAIATHA
Government
dmo-garhwa@jharkhandmail.gov.in

Contact no.: 8210375628

Location of Proposed Land

District
Thana No.:
Khata No.:

Garhwa
256
NA

Battery Point
Thana Name: GARAKALAN
KANDI
Khesra Name: 01

#	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m?	More than Yes	Yes
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	Yes
5	Does there any ESZ available within 10 km distance from project location? *	Yes	Yes
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	No	No

Note: - Ref Ack No. SWSFST25032023b7193 The Distance from nearest forest to the battery point is more than 250 meters.

Division DFO, Garhwa North

Letter No. 602

Date of issue 28-3-23

Signature

Name

Divisional Forest Officer

Divisional Forest Officer

Garhwa North Division

28/3/23
Divisional Forest Officer
Garhwa North Division



Handwritten signature in blue ink.

Handwritten letter 'A' in blue ink.

Department of Forest, Environment and Climate Change

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

Name Of Applicant: SRI NANDDEO BAITHA
 Institution Type: Government
 Email ID: dmo-garhwa@jharkhandmail.gov.in
 Contact no.: 8210375628
 Location of Proposed Land: GARAKHURD KANDI 01
 District: Garhwa
 Thana No.: 257
 Khata No.: NA
 Range Forest Officer: Divisional Forest Officer

#	Checkpoint	Yes	No
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m?	Yes	Yes
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	Yes
5	Does there any ESZ available within 10 km distance from project location? *	Yes	Yes
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	No	No

More than

Note: - Ref Ack No. SWSFST2503202301e78 The Distance from nearest forest to the battery point is more than 250 meters.

Division: DFO, Garhwa North
 Letter No: 601
 Date of issue: 28.3.23
 Signature: [Signature]
 Name: [Signature] 28.3.23

[Signature]
 28.3.23
 Divisional Forest Officer
 Garhwa North Division

Divisional Forest Officer
 Divisional Forest Officer
 Garhwa North Division



[Handwritten signature]

[Handwritten signature]

Department of Forest, Environment and Climate Change

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

Name Of Applicant: SRI NANDDEO BAITHA
 Institution Type: Government
 Email ID: dmo-garhwa@jharkhandmail.gov.in
 Contact no.: 8210375628

Location of Proposed Land
 District: Garhwa
 Thana No.: 259
 Khata No.: NA
 Battery Point Thana Name: SUNDIPUR
 Khesra Name: KANDI
 Range Forest Officer: 01.07
 Divisional Forest Officer

#	Checkpoint	Yes	No
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? <i>More than</i>	Yes	Yes
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	Yes
5	Does there any ESZ available within 10 km distance from project location? *	Yes	Yes
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	No	No

Note: - Ref Ack No. SWSFST2503202370d7d
 The Distance from nearest forest to the battery point is more than 250 meters.

Division DFO, Garhwa North

Letter No. 604

Date of issue 28-3-23

Signature _____

Name Ravi

Ravi
 28-3-23
 Divisional Forest Officer
 Garhwa North Division

Divisional Forest Officer
 Divisional Forest Officer
 Garhwa North Division



Handwritten signature

Handwritten mark 'A'

Department of Forest, Environment and Climate Change

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

Name Of Applicant	SRI NANDDEO BAITHA	Contact no.:	8210375628
Institution Type	Government		
Email ID	dmo-garhwa@jharkhandmail.gov.in		
	Location of Proposed Land		
District	Garhwa	Battery Point	BALIARI
Thana No.:	235	Thana Name:	KANDI
Khata No.:	NA	Khesra Name:	01
		Range Forest Officer	Divisional Forest Officer

Wardham

#	Checkpoint	Yes	No
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? *	Yes	Yes
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	Yes
5	Does there any ESZ available within 10 km distance from project location? *	Yes	Yes
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	No	No

Note - Ref Ack No. SWSFST2503202338222 The Distance from nearest forest to the battery point is more than 250 meters.

Division **DFO, Garhwa North**
 Letter No. 603
 Date of issue 28.3.23
 Signature *R. A.*
 Name *R. A.*

R. A.
 28.3.23
Divisional Forest Officer
Garhwa North Division

Divisional Forest Officer
Divisional Forest Officer
Garhwa North Division



Asan

A

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

SRI NANDDEO BAITHA
Government
dmo-garhwa@jharkhandmail.gov.in

Contact no.: 8210375628

District
Thana No.:
Khata No.:

Garhwa
187
NA

Location of Proposed Land

Battery Point
Thana Name: BHANDARIA
Khesra Name: KANDI
1150

Range Forest Officer
Divisional Forest Officer

Checkpoint

more than

- 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)? *

Yes	Yes
No	No
No	No
No	No
No	No
No	No

Note: - Ref Ack No. SWSFST25032023030b9 The Distance from nearest forest to the battery point is more than 250 meters.

Rail
28.3.23
Divisional Forest Officer
Garhwa North Division

Division DFO, Garhwa North
Letter No. 590
Date of issue 28.3.23
Signature
Name Rail
28.3.23

Divisional Forest Officer
Divisional Forest Officer
Garhwa North Division

[Handwritten signature]



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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

SRI NANDDEO BAITHA
Government
dmo-garhwa@jharkhandmail.gov.in
Location of Proposed Land

Contact no.:

8210375628

District
Thana No.:
Khata No.:

Garhwa
188
NA

Battery Point
Thana Name:
Khesra Name:
Range Forest
Officer

SOHGARA
KANDI
941
Divisional Forest
Officer

Checkpoint

more than

#

- 1 Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? Yes Yes
- 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

Note: - Ref Ack No. SWSFST2503202365406 The Distance from nearest forest to the battery point is more than 250 meters.

Division DFO, Garhwa North

Letter No. 591

Date of issue 28-3-23

Signature _____

Name Rath 28-3-23

Rath
28-3-23
Divisional Forest Officer
Garhwa North Division

Divisional Forest Officer
Divisional Forest Officer
Garhwa North Division



OSB

A

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

SRI NANDDEO BAITHA
Government
dmo-garhwa@jharkhandmail.gov.in

Contact no.: 8210375628

Location of Proposed Land

District
Thana No.:
Khata No.:

Garhwa
189
NA

Battery Point
Thana Name:
Khesra Name:
RANADIH
KANDI
1212,1211,128,3166,1628

#	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? *	Yes	Yes
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

more than

Note: - Ref Ack No. SWSFST250320238b9cd
The Distance from nearest forest to the battery point is more than 250 meters.

Division DFO, Garhwa North
Letter No. 592
Date of issue 28.3.23
Signature _____
Name Rail

Rail
28.3.23
Divisional Forest Officer
Garhwa North Division

Divisional Forest Officer
Divisional Forest Officer
Garhwa North Division

adai

A



Department of Forest, Environment and Climate Change

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

Name Of Applicant SRI NANDDEO BAITHA
Institution Type Government
Email ID dmo-garhwa@jharkhandmail.gov.in
Contact no.: 8210375628
Location of Proposed Land

District	Garhwa	Battery Point	KHARAUNDHA
Thana No.:	252	Thana Name:	KANDI
Khata No.:	NA	Khesra Name:	2615

#	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? More than	Yes	Yes
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? *	Yes	Yes
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	No	No

Note: - Ref Ack No. SWSFST250320230b3bf The Distance from nearest forest to the battery point is more than 250 meters.

Division **DFO, Garhwa North**

Letter No. 597

Date of issue 28.3.23

Signature _____

Name Rath 28.3.23

Rath
28-3-23
Divisional Forest Officer
Garhwa North Division

Rath
28-3-23
Divisional Forest Officer
Garhwa North Division



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28/23, 5:11 PM

Inspection Report of Distance from Forest, Forest Reserve and Sanctuary

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

SRI NANDDEO BAITHA
Government
dmo-garhwa@jharkhandmail.gov.in

Contact no.: 8210375628

District
Thana No.:
Khata No.:

Garhwa
251
NA

Battery Point
Thana Name: BHURWA
Khesra Name: KANDI
1059

Range Forest Officer
Divisional Forest Officer

Checkpoint

- 1 Whether Distance of Project location from Reserved Forest/Protected Forest is more than 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)? *

Yes	Yes
No	No
No	No
No	No
Yes	Yes
No	No

Note: - Ref Ack No. SWSFST2503202325486 The Distance from nearest forest to the battery point is more than 250 meters.

Rull
28.3.23
Divisional Forest Officer
Garhwa North Division

Division DFO, Garhwa North

Letter No. 596

Date of issue 28.3.23

Signature

Name

Rull
28.3.23

Divisional Forest Officer

Divisional Forest Officer
Garhwa North Division

asei

A



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

SRI NANDDEO BAITHA
Government
dmo-garhwa@jharkhandmail.gov.in

Contact no.:

8210375628

Location of Proposed Land

District
Thana No.:
Khata No.:

Garhwa
250
NA

Battery Point
Thana Name:
Khesra Name:
Range Forest
Officer

JAINAGRA
KANDI
1492,1493

Divisional Forest
Officer

Checkpoint

#	Checkpoint	Yes	No
1	Whether Distance of Project location from Reserved Forest/Protected Forest is ^{more than} 250 m? *	Yes	Yes
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

Note: - Ref Ack No. SWSFST25032023ec985
The Distance from nearest forest to the battery point
is more than 250 meters.

Division DFO, Garhwa North

Letter No. 595

Date of issue 28.3.23

Signature

Name R. K. Singh
28.3.23

Divisional Forest Officer

Divisional Forest Officer

Garhwa North Division

R. K. Singh
28.3.23
Divisional Forest Officer
Garhwa North Division



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8/23, 5:10 PM

Inspection Report of Distance from Forest, Forest Reserve and Sanctuary

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

SRI NANDDEO BAITHA
Government
dmo-garhwa@jharhandmail.gov.in

Contact no.: 8210375628

Location of Proposed Land

District
Thana No.:
Khata No.:

Garhwa
246
NA

Battery Point
Thana Name:
Khesra Name:

KORGAIN
KANDI
1976,1977,1978

Range Forest Officer

Divisional Forest Officer

Checkpoint

More than

- 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)? *

Yes Yes
No No
No No
No No
No No
No No

Note: - Ref Ack No. SWSFST2503202398db1
The Distance from nearest forest to the battery point is more than 250 meters.

Division DFO, Garhwa North

Letter No. 594

Date of issue 28.3.23

Signature

Name

Divisonal Forest Officer
Garhwa North Division

Divisonal Forest Officer
Divisonal Forest Officer
Garhwa North Division



Department of Forest, Environment and Climate Change

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

Name Of Applicant	SRI NANDDEO BAITHA	Contact no.:	8210375628
Institution Type	Government		
Email ID	dmo-garhwa@jharkhandmail.gov.in		
	Location of Proposed Land		
District	Garhwa	Battery Point	MUKHAPI
Thana No.:	245	Thana Name:	KANDI
Khata No.:	NA	Khesra Name:	1425
		Range Forest Officer	Divisional Forest Officer
#	Checkpoint	More than	
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? *	Yes	Yes
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

Note: - Ref Ack No. SWSFST25032023c9d00 The Distance from nearest forest to the battery point is more than 250 meters.

Division DFO, Garhwa North

Letter No. 593

Date of issue 28.3.23

Signature

Name

Radh
28.3.23
Divisional Forest Officer
Garhwa North Division

Radh
28.3.23
Divisional Forest Officer
Garhwa North Division



Radha

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3/28/23, 5:05 PM

Inspection Report of Distance from Forest, Forest Reserve and Sanctuary

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

SRI NANDDEO BAITHA
Government
dmo-garhwa@jharkhandmail.gov.in

Location of Proposed Land

Contact no.: 8210375628

District
Thana No.:
Khata No.:

Garhwa
70
NA

Battery Point
Thana Name: LOHARGARA
Khesra Name: KETAR
01,02

Range Forest Officer
Divisional Forest Officer

#

Checkpoint

- 1 Whether Distance of Project location from Reserved Forest/Protected Forest is more than 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)? *

Yes	Yes
No	No
No	No
Yes	Yes
Yes	Yes
No	No

Note: - Ref Ack No. SWSFST270320238b26b The Distance from nearest forest to the battery point is more than 250 meters.

Radh
28-3-23
Divisional Forest Officer
Garhwa North Division

Division DFO, Garhwa North
Letter No. 587
Date of issue 28-3-23
Signature
Name Radh
28-3-23
Divisional Forest Officer
Divisional Forest Officer
Garhwa North Division

adde

A



Department of Forest, Environment and Climate Change

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

Name Of Applicant SRI NANDDEO BAITHA
Institution Type Government
Email ID dmo-garhwa@jharkhandmail.gov.in
Contact no.: 8210375628
Location of Proposed Land MERAUNICHERHAT
District Garhwa
Battery Point KETAR
Thana No.: 69
Thana Name: 02
Khata No.: NA
Khesra Name: 02
Range Forest Officer
Divisional Forest Officer

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

Note: - Ref Ack No. SWSFST27032023d25d0 The Distance from nearest forest to the battery point is more than 250 meters.

Division DFO, Garhwa North
 Letter No. S88
 Date of issue 28.3.23
 Signature _____
 Name Rath

Rath
28.3.23
 Divisional Forest Officer
 Garhwa North Division

Divisional Forest Officer
 Divisional Forest Officer
 Garhwa North Division



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3/28/23, 5:06 PM

Inspection Report of Distance from Forest, Forest Reserve and Sanctuary

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

SRI NANDDEO BAIATHA
Government
dmo-garhwa@jharkhandmail.gov.in

Location of Proposed Land

Contact no.: 8210375628

District
Thana No.:
Khata No.:

Garhwa
67
NA

Battery Point
Thana Name: KOSHDEHRA
Khetra Name: KETAR
02

Divisional Forest Officer

#

Checkpoint

More than

Range 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)? *

Yes No
 No No
 Yes Yes
 Yes No
 No No

Note: - Ref Ack No. SWSFST2703202343b97 The Distance from nearest forest to the battery point is more than 250 meters.

Division DFO, Garhwa North
Letter No. 589
Date of issue 28-3-23
Signature
Name

[Signature]
28.3.23
Divisional Forest Officer
Garhwa North Division

[Signature]
28-3-23
Divisional Forest Officer
Divisional Forest Officer
Garhwa North Division

[Handwritten signature]

[Handwritten signature]





3/28/23, 5:01 PM

Inspection Report of Distance from Forest, Forest Reserve and Sanctuary

Department of Forest, Environment and Climate Change

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

Name Of Applicant: SRI NANDDEO BAITHA
 Institution Type: Government
 Email ID: dmo-garhwa@jharkhandmail.gov.in
 Contact no.: 8210375628
 Location of Proposed Land: BATTERY POINT
 District: Garhwa
 Thana No.: 38
 Khata No.: NA
 Range Forest Officer: BIJDIH KETAR 01,02
 Divisional Forest Officer

#	Checkpoint	Yes	No
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? *	Yes	Yes
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	Yes
5	Does there any ESZ available within 10 km distance from project location? *	Yes	Yes
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	No	No

Note: - Ref Ack No. SWSFST2703202343709 The Distance from nearest forest to the battery point is more than 250 meters.

Division DFO, Garhwa North
 Letter No. 582
 Date of issue 28.3.23
 Signature _____
 Name Rath 28-3-23

Rath
28-3-23
 Divisional Forest Officer
 Garhwa North Division

Divisional Forest Officer
 Divisional Forest Officer
 Garhwa North Division



Handwritten signature

Handwritten letter 'A'

3/28/23, 5:00 PM

Inspection Report of Distance from Forest, Forest Reserve and Sanctuary

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

SRI NANDDEO BAIATHA
Government
dmo-garhwa@jharkhandmail.gov.in

Contact no.: 8210375628

Location of Proposed Land

District
Thana No.:
Khata No.:

Garhwa
39
NA

Battery Point
Thana Name: CHANDIH
Khetra Name: KETAR
01,02

Range Forest Officer
Divisional Forest Officer

- | # | Checkpoint | Yes | No |
|---|---|-----|-----|
| 1 | Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? <i>MORE THAN</i> | Yes | Yes |
| 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 | Yes |
| 5 | Does there any ESZ available within 10 km distance from project location? * | Yes | Yes |
| 6 | Whether Proposed project comes under prohibited category of ESZ (Yes or No)? * | No | No |

Note: - Ref Ack No. SWSFST27032023ed40f The Distance from nearest forest to the battery point is more than 250 meters.

Division DFO, Garhwa North

Letter No. S81

Date of issue 28.3.23

Signature

Name

Rath
28.3.23
Divisional Forest Officer
Garhwa North Division

Rath
28.3.23
Divisional Forest Officer
Divisional Forest Officer
Garhwa North Division



Department of Forest, Environment and Climate Change

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

Name Of Applicant	SRI NANDDEO BAITHA	Contact no.:	8210375628
Institution Type	Government		
Email ID	dmo-garhwa@jharkhandmail.gov.in		
	Location of Proposed Land		
District	Garhwa	Battery Point	GAMHARIA
Thana No.:	37	Thana Name:	KETAR
Khata No.:	NA	Khesra Name:	01
		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? more than	Yes	Yes
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	Yes
5	Does there any ESZ available within 10 km distance from project location? *	Yes	Yes
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	No	No

Note: - Ref Ack No. SWSFST2703202342adf The Distance from nearest forest to the battery point is more than 250 meters.

Division **DFO, Garhwa North**
 Letter No. 583
 Date of issue 28-3-23
 Signature _____
 Name R...

R...
28-3-23
Divisional Forest Officer
Garhwa North Division

Divisional Forest Officer
Divisional Forest Officer
Garhwa North Division



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[Handwritten mark]

3/28/23, 5:03 PM

Inspection Report of Distance from Forest, Forest Reserve and Sanctuary

Department of Forest, Environment and Climate Change

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

Name Of Applicant: SRI NANDDEO BAITHA
 Institution Type: Government
 Email ID: dmo-garhwa@jarkhandmail.gov.in
 Contact no.: 8210375628

District: Garhwa
 Thana No.: 29
 Khata No.: NA
 Location of Proposed Land: Battery Point Thana Name: MUNMUN KETAR
 Khesra Name: 01,02
 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? <i>MORE THAN</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	Yes
5	Does there any ESZ available within 10 km distance from project location? *	Yes	Yes
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	No	No

Note: - Ref Ack No. SWSFST270320235e91c The Distance from nearest forest to the battery point is less than 250 meters.

Division DFO, Garhwa North
 Letter No. 585
 Date of issue 28-3-23
 Signature [Signature]
 Name Rath
28-3-23

[Signature]
 28-3-23
 Divisional Forest Officer
 Garhwa North Division

Divisional Forest Officer
 Garhwa North Division
[Signature]

[Signature]



[Signature]

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

SRI NANDDEO BAITHA
Government
dmo-garhwa@jharkhandmail.gov.in
Location of Proposed Land

Contact no.:

8210375628

District
Thana No.:
Khata No.:

Garhwa
30
NA

Battery Point
Thana Name:
Khesra Name:

PACHADUMAR
KETAR
129,130,131,2363

Range Forest
Officer

Divisional Forest
Officer

more than

- | # | Checkpoint | Yes | No |
|---|--|-----|-----|
| 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? * | Yes | Yes |
| 5 | Does there any ESZ available within 10 km distance from project location? * | Yes | Yes |
| 6 | Whether Proposed project comes under prohibited category of ESZ (Yes or No)? * | No | No |

Note: - Ref Ack No. SWSFST270320231aa12 The Distance from nearest forest to the battery point is less than 250 meters.

Division DFO, Garhwa North

Letter No. 584

Date of issue 28-3-23

Signature

Name *Rahul* 28-3-23

Rahul
28-3-23
Divisional Forest Officer
Garhwa North Division

Divisional Forest Officer
Divisional Forest Officer
Garhwa North Division



Rahul

A

3/28/23, 5:04 PM

Inspection Report of Distance from Forest, Forest Reserve and Sanctuary

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

SRI NANDDEO BAITHA
Government
dmo-garhwa@jharkhandmail.gov.in

Contact no.: 8210375628

District
Thana No.:
Khata No.:

Garhwa
28
NA

Location of Proposed Land

Battery Point
Thana Name: PARTIKUSWANI
Khesra Name: KETAR
2765,2766,2774

Checkpoint

#	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m?	more than	
2	Whether Project location come under No Mining Zone? *	Yes	Yes
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? *	Yes	Yes
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	No	No

Note: - Ref Ack No. SWSFST27032023e741a The Distance from nearest forest to the battery point is more than 250 meters.

Division DFO, Garhwa North
Letter No. 586
Date of issue 28.3.23
Signature
Name

Rall
28.3.23
Divisional Forest Officer
Garhwa North Division

Divisional Forest Officer
Divisional Forest Officer
Garhwa North Division



Handwritten signature

Handwritten signature

Department of Forest, Environment and Climate Change

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

Name Of Applicant: Sri Nanddeo Baitha
 Institution Type: Government
 Email ID: dmo-garhwa@jharkhandmall.gov.in
 Contact no.: 8210375628
 Location of Proposed Land:

District: Garhwa
 Thana No.: 2
 Khata No.: NA
 Battery Point Thana Name: Chandna Kharaundhi
 Khesra Name: 1
 Range Forest Officer: Divisional Forest Officer

#	Checkpoint	Yes	No
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? <i>More than</i>	Yes	Yes
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	Yes
5	Does there any ESZ available within 10 km distance from project location? *	Yes	Yes
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	No	No

Note: - Ref Ack No. SWSFST2503202351e3b
 The Distance from nearest forest to the battery point is more than 250 meters.

Division DFO, Garhwa North

Letter No. 598

Date of issue 28-3-23

Signature [Signature]

Name [Signature]

[Signature]
 28-3-23
 Divisional Forest Officer
 Garhwa North Division

Divisional Forest Officer
 Divisional Forest Officer
 Garhwa North Division



[Handwritten signature]

[Handwritten mark]

3/28/23, 5:13 PM

Inspection Report of Distance from Forest, Forest Reserve and Sanctuary

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

Sri Nanddeo Baitha
Government
dmo-garhwa@jharichandmail.gov.in

Location of Proposed Land

Contact no.: 8210375628

District
Thana No.:
Khata No.:

Garhwa
I
NA

Battery Point
Thana Name: Khokha
Khesra Name: Kharandhi
01

Range Forest Officer
Divisional Forest Officer

- | # | Checkpoint | Yes | No |
|---|---|-----|-----|
| 1 | Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? <i>more than</i> | Yes | No |
| 2 | Whether Project location come under No Mining Zone? * | Yes | 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? * | Yes | Yes |
| 6 | Whether Proposed project comes under prohibited category of ESZ (Yes or No)? * | Yes | No |

Note: - Ref Ack No. SWSFST250320232548c
The Distance from nearest forest to the battery point is more than 250 meters.

Radh
28.3.23
Divisional Forest Officer
Garhwa North Division

Division DFO, Garhwa North

Letter No. 599

Date of issue 28.3.23

Signature

Name

Radh
28.3.23
Divisional Forest Officer
Divisional Forest Officer
Garhwa North Division



Handwritten signature

A

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

Sri Nanddeo Baitha
Government
dmo-garhwa@jharkhandmail.gov.in

Contact no.: 8210375628

Location of Proposed Land

District
Thana No.:
Khata No.:

Garhwa
3
NA

Battery Point
Thana Name:
Khesra Name:
Range Forest
Officer

Pipra
Kharaundhi
152
Divisional Forest
Officer

Checkpoint

More than 250m

#	Checkpoint	Yes	No
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? *	Yes	Yes
5	Does there any ESZ available within 10 km distance from project location? *	Yes	Yes
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	No	No

Note: - Ref Ack No. SWSFST250320237544b The Distance from nearest forest to the battery point is less than 250 meters.

Division DFO, Garhwa North

Letter No. 600

Date of issue 28-3-23

Signature _____

Name Rath 28.3.23

Rath
28.3.23
Divisional Forest Officer
Garhwa North Division

Divisional Forest Officer
Divisional Forest Officer
Garhwa North Division



Handwritten signature

A

Department of Forest, Environment and Climate Change

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

Name Of Applicant: SRI NANDDEO BAITHA
 Institution Type: Government
 Email ID: dmo-garhwa@jharkhandmail.gov.in
 Contact no.: 8210375628

District: Garhwa
 Thana No.: 145
 Khata No.: NA
 Location of Proposed Land: MAJHIAON KHURD
 Battery Point Thana Name: MAJHAIION
 Khesra Name: 605

#	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? <i>more than</i>	Yes	Yes
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

Note: - Ref Ack No. SWSFST28032023ec35b The Distance from nearest forest to the battery point is more than 250 meters.

Division DFO, Garhwa North
 Letter No. 575
 Date of issue 28.3.23
 Signature _____
 Name Rakhi

Rakhi
28.3.23
 Divisional Forest Officer
 Garhwa North Division

Divisional Forest Officer
 Divisional Forest Officer
 Garhwa North Division

adai

A



Department of Forest, Environment and Climate Change

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

Name Of Applicant: SRI NANDDEO BAIATHA
 Institution Type: Government
 Email ID: dmo-garhwa@jharkhandmail.gov.in
 Contact no.: 8210375628

Location of Proposed Land
 District: Garhwa
 Thana No.: 140
 Khata No.: NA
 Battery Point Thana Name: CHERIAHA MAJHIAON
 Khesra Name: 146
 Range Forest Officer: CHHERIAHA MAJHIAON
 Divisional Forest Officer

#	Checkpoint	Yes	No
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? *	Yes	Yes
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

more than

Note: - Ref Ack No. SWSFST280320237b6f1 The Distance from nearest forest to the battery point is more than 250 meters.

Division DFO, Garhwa North

Letter No. 572

Date of issue 28/3/23

Signature

Name

[Signature]
 28/3/23
 Divisional Forest Officer
 Garhwa North Division

[Signature]
 28/3/23
 Divisional Forest Officer
 Garhwa North Division



[Handwritten signature]
 A



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

SRI NANDDEO BAITHA
Government
dmo-garhwa@jharkhandmail.gov.in

Contact no.: 8210375628

Location of Proposed Land

District
Thana No.:
Khata No.:

Garhwa
141
NA

Battery Point
Thana Name: BAKOIA
Khesra Name: MAJHIAON
917,1549
Range Forest Officer
Divisional Forest Officer

#	Checkpoint	Yes	No
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? <i>More than</i>	Yes	No
2	Whether Project location come under No Mining Zone? *	Yes	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

Note: - Ref Ack No. SWSFST28032023aa184 The Distance from nearest forest to the battery point is more than 250 meters

Division DFO, Garhwa North

Letter No. 573

Date of issue 28.3.23

Signature

Name Radhika
28-3-23

Radhika
28/3/23
Divisional Forest Officer
Garhwa North Division

Divisional Forest Officer
Divisional Forest Officer
Garhwa North Division



aditya

A

Department of Forest, Environment and Climate Change

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

Name Of Applicant	SRI NANDDEO BAITHA		Contact no.:	8210375628
Institution Type	Government			
Email ID	dmo-garhwa@jharkhandmail.gov.in			
	Location of Proposed Land			
District	Garhwa	Battery Point	MAJHAION KALAN	
Thana No.:	144	Thana Name:	MAJHAION	
Khata No.:	NA	Khesra Name:	1174	
			Range Forest Officer	Divisional Forest Officer
#	Checkpoint	more than		
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? *	Yes	Yes	Yes
2	Whether Project location come under No Mining Zone? *	No	No	No
3	Does there any National park located within 10 km from project location? *	No	No	No
4	Does there any Wildlife sanctuary located within 10 km distance from project location? *	No	No	No
5	Does there any ESZ available within 10 km distance from project location? *	No	No	No
6	Whether Proposed project comes under prohibited category of ESZ (Yes or No)? *	No	No	No

Note: - Ref Ack No. SWSFST280320233ef91 The Distance from nearest forest to the battery point is more than 250 meters.

Division **DFO, Garhwa North**
 Letter No. 574
 Date of issue 28.3.23
 Signature _____
 Name R...

R...
28-3-23
Divisional Forest Officer
Garhwa North Division

Divisional Forest Officer
Divisional Forest Officer
Garhwa North Division



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Handwritten signature/initials

3/28/23, 4:50 PM

Inspection Report of Distance from Forest, Forest Reserve and Sanctuary

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

SRI NANDDEO BAIATHA
Government
dmo-garhwa@jharkhandmail.gov.in

Contact no.: 8210375628

District
Thana No.:
Khata No.:

Garhwa
175
NA

Location of Proposed Land

Battery Point
Thana Name: BURHI KHAR
Khesra Name: MAJHIAON
454,1314

Range Forest Officer
Divisional Forest Officer

Checkpoint

more than

- 1 Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? Yes
- 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, Garhwa North

Letter No. 576

Date of issue 28-3-23

Signature

Name

Rath 28-3-23

Divisional Forest Officer
Divisional Forest Officer
Garhwa North Division

Note: - Ref Ack No. SWSFST2803202357248 The Distance from nearest forest to the battery point is more than 250 meters.

Rath 28-3-23
Divisional Forest Officer
Garhwa North Division



Department of Forest, Environment and Climate Change

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

Name Of Applicant	SRI NANDDEO BAITHA	Contact no.:	8210375628
Institution Type	Government		
Email ID	dmo-garhwa@jharkhandmail.gov.in		
	Location of Proposed Land		
District	Garhwa	Battery Point	KHARSOTA
Thana No.:	176	Thana Name:	MAJHIAON
Khata No.:	NA	Khesra Name:	3456,3457
		Range Forest Officer	Divisional Forest Officer
#	Checkpoint		
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? *	Yes	Yes
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

more than

Note: - Ref Ack No. SWSFST2803202344229 The Distance from nearest forest to the battery point is more than 250 meters.

Division DFO, Garhwa North
 Letter No. 577
 Date of issue 28-3-23
 Signature [Signature]
 Name [Signature] 28-3-23

[Signature]
 28-3-23
 Divisional Forest Officer
 Garhwa North Division

Divisional Forest Officer
 Divisional Forest Officer
 Garhwa North Division



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3/28/23, 4:53 PM

Inspection Report of Distance from Forest, Forest Reserve and Sanctuary

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

SRI NANDDEO BAITHA
Government
dmo-garhwa@jharkhandmail.gov.in

Location of Proposed Land

Contact no.: 8210375628

District
Thana No.:
Khata No.:

Garhwa
182
NA

Battery Point
Thana Name: MORWE
Khesra Name: MAJHIAON
Range Forest Officer: 2453,1591
Divisional Forest Officer

Checkpoint

- | # | Checkpoint | Yes | No |
|---|---|-----|----|
| 1 | Whether Distance of Project location from Reserved Forest/Protected Forest is <u>MORE THAN</u> 250 m? * | | |
| 2 | Whether Project location come under No Mining Zone? * | Yes | 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 |

Note: - Ref Ack No. SWSFST280320232e431 The Distance from nearest forest to the battery point is more than 250 meters.

Rak
28-3-23
Divisional Forest Officer
Garhwa North Division

Division DFO, Garhwa North

Letter No. 578

Date of issue 28-3-23

Signature

Name

Rak
28-3-23
Divisional Forest Officer
Divisional Forest Officer
Garhwa North Division



Department of Forest, Environment and Climate Change

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

Name Of Applicant: SRI NANDDEO BAITHA
 Institution Type: Government
 Email ID: dmo-garhwa@jharkhandmail.gov.in
 Contact no.: 8210375628
 Location of Proposed Land:

District: Garhwa
 Thana No.: 138
 Khata No.: NA
 Battery Point Thana Name: KHAJURI NAWADIH
 Khesra Name: MAJHIAON
 2934

#	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? * <i>(more than)</i>	Yes	Yes
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

Note: - Ref Ack No. SWSFST28032023c2d6e The Distance from nearest forest to the battery point is more than 250 meters.

Division DFO, Garhwa North

Letter No. 579

Date of issue 28-3-23

Signature

Name

Rah
 28-3-23
 Divisional Forest Officer
 Garhwa North Division

Rah
 28-3-23
 Divisional Forest Officer
 Divisional Forest Officer
 Garhwa North Division



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[Handwritten signature]

3/28/23, 4:59 PM

Inspection Report of Distance from Forest, Forest Reserve and Sanctuary

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

DISTRICT OFFICER
Government
dmo-garhwa@jharkhandmail.gov.in

Contact no.: 8210375628

Location of Proposed Land

District
Thana No.:
Khata No.:

Garhwa
139
NA

Battery Point
Thana Name: AMARCHHECHHARIA
MAJHIAON
Khesra Name: 2243

#	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m?	more than	
2	Whether Project location come under No Mining Zone? *	Yes	Yes
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

Note: - Ref Ack No. SWSFST28032023ea3b8 The Distance from nearest forest to the battery point is more than 250 meters.

Division DFO, Garhwa North

Letter No. 580

Date of issue 28-3-23

Signature

Name

Rath
28-3-23
Divisional Forest Officer
Garhwa North Division

Divisional Forest Officer
Divisional Forest Officer
Garhwa North Division



[Handwritten signature] A

Department of Forest, Environment and Climate Change

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

Name Of Applicant: SRI NANDDEO BAIITHA
 Institution Type: Government
 Email ID: dmo-garhwa@jharkhandmail.gov.in
 Contact no.: 8210375628
 Location of Proposed Land: **ATAULA MERAL 1767, AREA-22-05HA**

District: Garhwa
 Thana No.: 258
 Khata No.: NA

Battery Point Thana Name: **ATAULA MERAL**
 Khesra Name: **1767, AREA-22-05HA**

#	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? *	Yes	Yes
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

Note: - Ref Ack No. SWSFST2503202392e69 The Distance from nearest forest to the battery point is more than 250 meters.

Division DFO, Garhwa North
 Letter No. 607
 Date of issue 28.3.23
 Signature _____
 Name Rath

Rath
 28.3.23
 Divisional Forest Officer
 Garhwa North Division

Divisional Forest Officer
 Divisional Forest Officer
 Garhwa North Division



Order

A

Department of Forest, Environment and Climate Change

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

Name Of Applicant: SRI NANDDEO BAITHA
 Institution Type: Government
 Email ID: dmo-garhwa@jharkhandmail.gov.in
 Contact no.: 8210375628
 Location of Proposed Land

District: Garhwa
 Thana No.: 257
 Khata No.: NA
 Battery Point: BAJUDIH
 Thana Name: MERAL
 Khesra Name: 01,AREA-22-05HA

#	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? * <i>more than</i>	Yes	Yes
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

Note: - Ref Ack No. SWSFST250320239c72b The Distance from nearest forest to the battery point is more than 250 meters.

Division DFO, Garhwa North
 Letter No. 608
 Date of issue 28.3.23
 Signature _____
 Name Rath

Rath
28.3.23
 Divisional Forest Officer
 Garhwa North Division

Divisional Forest Officer
 Divisional Forest Officer
 Garhwa North Division



[Handwritten signature] *A*



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

Sri Nanddeo Baittha
Government
dino-garhwa@jharkhandmail.gov.in

Contact no.: 8210375628

Location of Proposed Land

District
Thana No.:
Khata No.:

Garhwa
34
NA

Battery Point
Thana Name:
Khesra Name:

Anhar
Ranka
01

Range Forest
Officer

Divisional Forest
Officer

#	Checkpoint		
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? ^{more than}	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

Note :- Distance of Battery point (Project Area location) from Notified Reserve forest/Protected forest is not more than 50 metre. It is very close to Notified cadastral plot no- 254 of Anhar PF (Thana No-34)

Division DFO Garwa South

Letter No. 862

Date of issue 28.03.2023

Signature [Signature]

Name SHASHI KUMAR

Divisional Forest Officer



[Signature]
28/3/2023

[Signature]

[Signature]



Government of Jharkhand

Department of Forest, Environment and Climate Change

Permission Letter : LETTER20230328

Acknowledgment No: SWSFST250320233b9df

Issue Date: 28-03-2023

Name Of Applicant :

Sri Nanddeo Baitha

Email ID :

dmo-garhwa@jharkhandmail.gov.in

Contact no.: 8210375628

Report of Distance from Forest, Forest Reserve and Sanctuary

SNo	Checkpoint	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

Note :- Distance of Battery point (Project Area location) from Notified Reserve forest/Protected forest is not more than 50 metre. It is very close to Notified cadastral plot no- 254 of Anhar PF (Thana No-34)

Name : SHASHI KUMAR

Designation : D.F.O Garhwa(S)

Signature :

*The certificate to be issued by the Divisional Forest Officer of the respective Divisions and upload





Department of Forest, Environment and Climate Change

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

Name Of Applicant	Sri Nanddeo Baidha	Contact no.:	8210375628
Institution Type	Government	Battery Point	Dudhawal
Email ID	dmo-garhwa@jharkhandmail.gov.in	Thana Name:	Ranka
	Location of Proposed Land	Khesra Name:	743
District	Garhwa	Range Forest Officer	Divisional Forest Officer
Thana No.:	743/12		
Khata No.:	NA		
#	Checkpoint		
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? ^{more than}	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

Note :- Distance of Battery point (Project Area location) from Notified Reserve forest/Protected forest is not more than 50 metre. It is very close to Notified cadastral plot no- 701 of Dudhawal PF (Thana No-12)

Division DFO Garwa South
Letter No. 859
Date of issue 28.03.2023
Signature SHASHI KUMAR
Name SHASHI KUMAR

Comments :-

Comments regarding SI No- 3,4 & 5 is based on the records of Jharkhand State. Battery Point (Project Area location) is located within Kanhar River. Area situated west of Kanhar River falls under the jurisdiction of Balampur District (Old Sarguja District) of Chattisgarh State for which no document is available in this Division.

Divisional Forest Officer
Garwa South Forest Division



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Shashi

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Government of Jharkhand
Department of Forest, Environment and Climate Change

Permission Letter : **LETTER20230328**

Acknowledgment No: SWSFST2503202390762

Issue Date: 28-03-2023

Name Of Applicant :

Sri Nanddeo Baitha

Email ID :

dmo-garhwa@jharkhandmail.gov.in

Contact no.: 8210375628

Report of Distance from Forest, Forest Reserve and Sanctuary

SNo	Checkpoint	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

Note :- Distance of Battery point (Project Area location) from Notified Reserve forest/Protected forest is not more than 50 metre. It is very close to Notified cadastral plot no- 701 of Dudhawal PF (Thana No-12)

Name : SHASHI KUMAR

Designation : D.F.O. Garhwa(S)

Signature : [Signature]

Divisional Forest Officer
Garhwa South Forest Division

The certificate to be issued by the Divisional Forest Officer of the respective Divisions and uploaded

Comments :-

Comments regarding SI No- 3,4 & 5 is based on the records of Jharkhand State. Battery Point (Project Area location) is located within Kanhar River. Area situated west of Kanhar River falls under the jurisdiction of Balampur District (Old Sarguja District) of Chattisgarh State for which no document is available in this Division.

[Signature]

[Signature]

[Signature]





Department of Forest, Environment and Climate Change

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

Name Of Applicant	Sri Nanddeo Baitha	Contact no.:	8210375628
Institution Type	Government	Battery Point	Chutiya
Email ID	dmo-garbwa@jharkhandmail.gov.in	Thana Name:	Ranka
	Location of Proposed Land	Khesra Name:	1421
District	Garhwa	Range Forest Officer	Divisional Forest Officer
Thana No.:	141		
Khata No.:	NA		
#	Checkpoint		
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? ^{above than}	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

Note :- Distance of Battery point (Project Area location) from Notified Reserve forest/Protected forest is not more than 50 metre. It is very close to Notified cadastral plot no- 236, 238 of Chutiya PF (Thana No-141)

Division **DFO Garwa South**
 Letter No. 863
 Date of issue 28.03.2023
 Signature [Signature]
 Name SHASHI KUMAR

Divisional Forest Officer

[Signature]
28/3/23



[Signature]

[Signature]



Government of Jharkhand

Department of Forest, Environment and Climate Change

Permission Letter : LETTER20230328

Acknowledgment No: SWSFST25032023c6071

Issue Date: 28-03-2023

Name Of Applicant :

Sri Nanddeo Baitha

Email ID :

dmo-garhwa@jharkhandmail.gov.in

Contact no.:

8210375628

Report of Distance from Forest, Forest Reserve and Sanctuary

SNo	Checkpoint	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is ^{more than} 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

Note :- Distance of Battery point (Project Area location) from Notified Reserve forest/Protected forest is not more than 50 metre. It is very close to Notified cadastral plot no- plot no- 236, 238 of Chutiya PF (Thana No-141)

Name : SHASHI KUMAR

Designation : 28-03-2023

Signature : Sumeet

*The certificate to be issued by the Divisional Forest Officer of the respective Divisions and upload





Department of Forest, Environment and Climate Change

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

Name Of Applicant	Sri Nanddeo Baitha	Contact no.:	8210375628
Institution Type	Government		
Email ID	dmo-garhwa@jharkhandmail.gov.in	Location of Proposed Land	
District	Garhwa	Battery Point	Siroi alias Belwadamar
Thana No.:	114 33	Thana Name:	Ranka
Khata No.:	NA	Khesra Name:	857
#	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? ^{more than}	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

Note :- Distance of Battery point (Project Area location) from Notified Reserve forest/Protected forest is zero (0) metre. Project area is adjacent to notified plot no. 555 of Siroi alis Belwadamar PF (Thana No-33)

Division DFO Garwa South
Letter No. 861
Date of issue 28.03.2023
Signature S. Kumar
Name SHASHI KUMAR

Divisional Forest Officer

Comments :- Comments regarding SI No- 3,4 & 5 is based on the records of Jharkhand State. Battery Point (Project Area location) is located within Kanhar River. Area situated west of Kanhar River falls under the jurisdiction of Balampur District (Old Sarguja District) of Chattisgarh State for which no document is available in this Division.

S. Kumar
28/3/2023



[Signature]
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Government of Jharkhand

Department of Forest, Environment and Climate Change

Permission Letter : LETTER20230328

Acknowledgment No: SWSFST25032023967b2

Issue Date: 28-03-2023

Name Of Applicant :

Sri Nanddeo Baitha

Email ID :

dmo-garhwa@jharkhandmail.gov.in

Contact no.: 8210375628

Report of Distance from Forest, Forest Reserve and Sanctuary

SNo	Checkpoint	Divisional Forest Officer
1	Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m? <small>(more than 250)</small>	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

Note :- Distance of Battery point (Project Area location) from Notified Reserve forest/Protected forest is zero (0) metre. Project area is adjacent to notified plot no. 555 of Sirol alla Belwadamar PF (Thana No-33)

Name : SHASHI KUMAR

Designation : D.F.O. Garhwa(S)

Signature : S Kumar

*The certificate to be issued by the Divisional Forest Officer of the respective Divisions and upload

Comments :-

Comments regarding SI No- 3,4 & 5 is based on the records of Jharkhand State. Battery Point (Project Area location) is located within Kanhar River. Area situated west of Kanhar River falls under the jurisdiction of Balampur District (Old Sarguja District) Chhatisgarh State for which no document is available in this Division.

S Kumar
28/03/2023

[Signature]



A



Department of Forest, Environment and Climate Change

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

Name Of Applicant	Sri Nanddeo Baitha	Contact no.:	8210375628
Institution Type	Government		
Email ID	dmo-garhwa@jharkhandmail.gov.in		
	Location of Proposed Land		
District	Garhwa	Battery Point	Anhar
Thana No.:	34	Thana Name:	Ranka
Khata No.:	NA	Khesra Name:	826
	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

Note :- Distance of Battery point (Project Area location) from Notified Reserve forest/Protected forest is zero (0) metre. Project area is adjacent to notified plot no. 300 of Anhar PF (Thana No-34)

Division DFO Garwa South

Letter No. 860

Date of issue 28.03.2023

Signature Shashi Kumar

Name SHASHI KUMAR

Divisional Forest Officer

Comments :-

Comments regarding SI No- 3,4 & 5 is based on the records of Jharkhand State. Battery Point (Project Area location) is located within Kanhar River. Area situated west of Kanhar River falls under the jurisdiction of Balampur District (Old Sarguja District) of Chattisgarh State for which no document is available in this Division.

Shumei



Shashi Kumar A



Government of Jharkhand

Department of Forest, Environment and Climate Change

Permission Letter : LETTER20230328

Acknowledgment No: SWSFST25032023846c7

Issue Date: 28-03-2023

Name Of Applicant :

Sri Nanddeo Baitha

Email ID :

dmo-garhwa@jharkhandmail.gov.in

Contact no.:

8210375628

Report of Distance from Forest, Forest Reserve and Sanctuary

SNo	Checkpoint	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

Note :- Distance of Battery point (Project Area location) from Notified Reserve forest/Protected forest is zero (0) metre. Project area is adjacent to notified plot no. 300 of Anhar PF (Thana No-34)

Name : SHASHI KUMAR

Designation : D.F.O. Garhwa(S)

Signature : S. Kumar

*The certificate to be issued by the Divisional Forest Officer of the respective Divisions and upload

Comments :-

Comments regarding SI No- 3,4 & 5 is based on the records of Jharkhand State. Battery Point (Project Area location) is located within Kanhar River. Area situated west of Kanhar River falls under the jurisdiction of Balampur District (Old Sarguja District) Chhatlagarh State for which no document is available in this Division.

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ANNEXURE- G
(Advertisement Copy/ Public Domain)



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STATE GOVT Government of Jharkhand

GOVERNMENT OF JHARKHAND

GOVERNMENT OF JHARKHAND

HOME ABOUT DISTRICT COVID-19 DIRECTORY DEPARTMENT DSD PORTAL TOURISM DOCUMENTS NOTICE

Home / DISTRICT / SAND/2022/1 Draft of District Survey Report (Sand) 2022 under District Mining Office, Garhwa

Draft of District Survey Report (Sand) 2022 under District Mining Office, Garhwa

Draft of District Survey Report (Sand) 2022 under District Mining Office, Garhwa

Title	Description	Start Date	End Date	File
Draft of District Survey Report (Sand) 2022 under District Mining Office, Garhwa	Draft of District Survey Report (Sand) 2022 under District Mining Office, Garhwa	10/08/2022	11/11/2022	View (1) Download



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Date 21-02-23

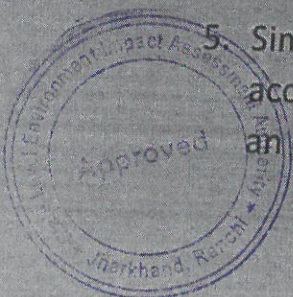
To,

1. The Collector, Garhwa
2. The District Mining Officer
Garhwa

Sub: Objection to District Survey Report of Sand of Garhwa district published for public consultation on 05-02-2023

Sir,

1. Public response to District Survey Report of Sand of Garhwa district has been invited on or about 05-02-2023 which is admittedly in the midst of monsoon. Hence admittedly it does not contain replenishment study of sand and is devoid of post monsoon data.
2. In absence of actual physical visit of sand ghat post monsoon, the area, reserve of sand is not based on primary field visit data and is an exercise of copy paste, hence fit to be rejected.
3. The draft DSR has not complied Para 9.3 of Enforcement & Monitoring Guidelines for Sand Mining 2020 as it has not consulted with adjoining district where sand ghat/river becomes the inter district/interstate boundary. Such consultation of draft DSR is mandatory through district administration of adjoining district/State.
4. DSR is not in compliance of NGT Order dated 05-09-2022 passed in OA No. 54/2022/EZ and also not in compliance of PARA 4.1.1 of Enforcement and Monitoring Guidelines for Sand Mining 2020 read with Sustainable Sand Mining Management Guidelines 2016.
5. Similar DSR of sand of East Singhbhum district has not been accepted by SEIAA vide meeting dated 17.09.2022 which should be an eye opener.



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6. You are requested to withdraw this DSR and prepare it once again in compliance to NGT Order dated 05.09.2022 and thereafter upload the same for public consultation.

Yours faithfully

Sakib/Starin



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Public comments 21-02-2023

Sl. No.	Public Comments	Reply
1.	Public response to district survey report of sand of Ramgarh district has been invited on or about 05-02-2023 which is admittedly in the midst of monsoon. Hence admittedly it does not contain replenishment study of sand and is devoid of post monsoon data.	The updated DSR includes the post monsoon data too, so the replenishment study is updated in the DSR report. Advt. copy is attached as annexure G.
2.	In absence of actual physical visit of sand ghat post monsoon, the area, reserve of sand is not based on primary field visit data and is an exercise of copy paste, hence fit to be rejected.	Physical visit photographs are attached as annexure C of DSR.
3.	The draft DSR has not complied para 9.3 of the EMGSM guidelines, 2020 as it has not consulted with adjoining district/ inter-state boundary. Such consultation of draft DSR is mandatory through district administration of adjoining district/ State.	Complied, undertaking attached as annexure L.
4.	DSR is not in compliance of NGT order dated 05.09.2022 passed in OA No. 54/2022/EZ and also not in compliance of para 4.1.1 of enforcement and monitoring guidelines for sand mining 2020 read with sustainable sand mining management guidelines 2016.	Complied, we follow all the points of para 4.1.1 of enforcement and monitoring guidelines for sand mining 2020 read with sustainable sand mining management guidelines 2016.
5.	Similar DSR of sand of East Singhbhum district has not been accepted by SEIAA vide meeting dated 17.09.2022 which should be an eye opener.	The updated DSR includes the past observations of SEIAA.
6.	You are requested to withdraw this DSR and prepare it once again in compliance to NGT order dated 05.09.2022 and thereafter upload the same for public consultation.	The updated DSR is uploaded includes all the compliances.

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ANNEXURE- H
(Annexure as prescribed in the EMGSM, 2020)



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Details of Sand/M-Sand Sources

Annexure-I

a) Rivers:

River Name/M-Sand Plant	Total Stretch of River (in KM)	Type of River (Perennial or Non-Perennial)
Kanhar River	94	-
Sone River	49	Perennial
Koel River	52	-

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.



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Annexure-II

List of Potential Mining Leases (existing & proposed)
Rivers

Sl.No	Lease Details	AREA_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: 1.58, Depth : 2 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020)	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing/ Proposed
	Kanhar Ghat 01, Vill-Bhuinphor, Block-Dhurki	0.89	-	Less than 250m	NO	28124	16874.4	Sand	Proposed
2	Kanhar Ghat 02, Vill-Libra alias paras panikalan, Block-Dhurki	0.82	-	Less than 250m	NO	25912	15547.2	Sand	Proposed
3	Kanhar Ghat 03, Vill-Libra alias paras panikalan & Murhpur alias Pachpheri, Block-Dhurki	15.5	-	Less than 250m	Yes, Area: 18.49 Ha.	489800	293880	Sand	Proposed
4	Kanhar Ghat 04, Vill-Murhpur alias Pachpheri, Block-Dhurki	2.99	-	Less than 250m		94484	56690.4	Sand	Proposed
5	Kanhar Ghat 05, Vill-Dhasni, Block-Bhandaria	1.28	-	Less than 250m	NO	40448	24268.8	Sand	Proposed
6	Kanhar Ghat 06, Vill-Janewa, Block-Bhandaria	3.91	-	Less than 250m	NO	123556	74133.6	Sand	Proposed
7	Kanhar Ghat 07, Vill-Bhaunri & Chutia, Block-	1.52	-	Less than 250m	NO	48032	28819.2	Sand	Proposed



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Enforcement & Monitoring Guidelines for Sand Mining

Sl.No	Lease Details	AREA_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: 1.59, Depth: 2 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020)	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing/ Proposed
8	Kanhar Ghat 08, Vill-Anhar, Block-Ranka	2	-	Less than 250m	NO	63200	37920	Sand	Proposed
9	Kanhar Ghat 09, Vill- Siroi Alias Belwadamar & Anhar, Block-Ranka	3.86	-	Less than 250m	NO	121976	73185.6	Sand	Proposed
10	Kanhar Ghat 10, Vill-Dudhwal, Block-Ranka	2.83	-	Less than 250m	NO	89428	53656.8	Sand	Proposed
11	Kanhar Ghat 11, Vill- Machpani, Block-Dhurki	1.56	-	Less than 250m	NO	49296	29577.6	Sand	Proposed
12	Kanhar Ghat 12, Vill-Machpani, Block- Dhurki	7	-	Less than 250m	NO	221200	132720	Sand	Proposed

Sl.No	Lease Details	AREA_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: 1.59, Depth: 2 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020)	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing/ Proposed
1	Son Ghat 1 Vill-Gara khurd & Sunnipura, Block-Kandi	83.4	-	More than 250m	Yes, Area: 183.1 Ha.	2652120	1591272	Sand	Proposed



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Enforcement & Monitoring Guidelines for Sand Mining

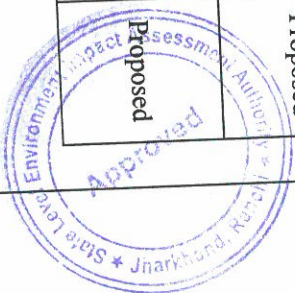
2	Son Ghat 2 Vill-Baliari, Gara kalan & Gara Khurd, Block- Kandi	99.7	-	More than 250m		3170460	1902276	Sand	Proposed
3	Son Ghat 3 Vill-Dumarsota, Block- Bhawanathpur	86	-	More than 250m	No	2734800	1640880	Sand	Proposed
4	Son Ghat 4 Kosdehra, Merauni Chherhat, Lohargara, Block - Bhawanathpur & Kater	213	-	More than 250m	NO	6773400	4064040	Sand	Proposed
5	Son Ghat 5 Vill-Parti kuswani, Munmun, Pachadumar, Gamharua, Bijdh & Chandih, Block- Kater	517	-	Less than 250m	NO	16440600	9864360	Sand	Proposed
6	Son Ghat 6 Vill-Pipra & Parti Kuswani, Block- Kharaundhi & Ketar	56.9	-	Less than 250m	NO	1809420	1085652	Sand	Proposed
7	Son Ghat 7 Vill- Khokha & Chanda, Block- Kharaundhi	154	-	More than 250m	NO	4897200	2938320	Sand	Proposed

State Level Environmental Impact Assessment
Approved
Jharkhand

Enforcement & Monitoring Guidelines for Sand Mining

Sl.No	Lease Details	AREA_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: 1.60, Depth: 2 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020)	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing/ Proposed
1	North Koyal Ghat 1 Vill-Kharandha, Bhurwa, Jainagar & Korgain, Block-Kandi	145	-	More than 250m		4640000	2784000	Sand	Proposed
2	North Koyal Ghat 2 Vill-Korgain & Mukhapi, Ranadih Block- Kandi	15.3	-	More than 250m	Yes, Area: 284.3 Ha.	489600	293760	Sand	Proposed
3	North Koyal Ghat 3 Vill-Ranadih, Sohgara & Bhandaria, Block- Kandi	124	-	More than 250m		3968000	2380800	Sand	Proposed
4	North koyal Ghat 4 Vill-Morwe & Kharasota, Block- Majhion	47.7	-	More than 250m	Yes, Area: 105.3 Ha.	1526400	915840	Sand	Proposed
5	North Koyal Ghat 5 Vill-Kharasota & Burhikhar, Block- Majhion	57.6	-	More than 250m		1843200	1105920	Sand	Proposed



Enforcement & Monitoring Guidelines for Sand Mining

6	North Koyal Ghat 6 Vill- Majhiaon Khurd & Majhiaon Kalan, Block-Majhiaon	10.9	-	More than 250m	Yes, Area: 31.8 Ha.	348800	209280	Sand	Proposed
7	North Koyal Ghat 7 Vill- Majhiaon Kalan , Block- Majhiaon	20.9	-	More than 250m		668800	401280	Sand	Proposed
8	North Koyal Ghat 8 Vill-Bakoia, Chheriaha Block- Majhiaon	4.38	-	More than 250m	NO	140160	84096	Sand	Proposed
9	North Koyal Ghat 9 Vill-Amar Chhechharia, Khajuri Nawadih, Bajudih & Ataula, Block-Majhiaon & Meral	22.5	-	More than 250m	NO	720000	432000	Sand	Proposed
10	North Koyal Ghat 10 Vill-Patsi & Darmi, Block- Garhwa	16.8	-	More than 250m	NO	537600	322560	Sand	Proposed



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

Name of Reservoir /Dams	Maintain /Controlle d by StateGovt./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)
Kanhar	1	Kanhar 03-04	Riverbed	Libra alias paras panikalan & Murhpur alias Pachpheri, Murhpur alias Pachpheri,	18.49	584284	350570.4
Sone	2	Sone 01-02	Riverbed	Gara khurd & Sunripura, Baliari, Gara kalan & Gara Khurd	183.1	5822580	34,93,548
Koyal	3	North Koyal 01-03	Riverbed	Kharaundha, Bhurwa, Jainagar & Korgain, Mukhapi, Ranadih, Sohgara & Bhandaria	284.3	9097600	54,58,560
	4	North Koyal 04-05	Riverbed	Morwe & Kharsota, Burhikhar	105.3	3369600	20,21,760
	5	North Koyal 06-07	Riverbed	Majhiganwan Khurd, Majhiganwan Kalan,	31.8	1017600	6,10,560

Contiguous Clusters:

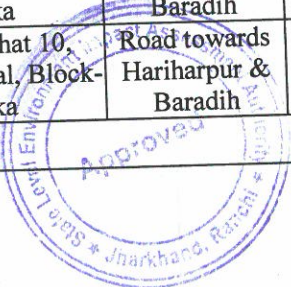
River Name	Contiguous Cluster No.	Cluster No	Number of leases in the cluster	Location (Riverbed / Patta Land)	Distance between clusters	Village	Area Of Cluster (Ha)	Total Mineral Excavation (Ton)
Kanhar	NA	NA	NA	NA	NA	NA	NA	NA
Sone	NA	NA	NA	NA	NA	NA	NA	NA
Koyal	NA	NA	NA	NA	NA	NA	NA	NA



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
Kanhar River								
Kanhar Ghat 01, Vill-Bhainphor, Block-Dhurki	Road towards Kandri & Bhainphor	7	NA	0.41	Unpaved	Unpaved	Lease Owner	Route Map attached
Kanhar Ghat 02, Vill-Libra alias paras panikalan, Block-Dhurki	Road towards Khutia & Khorea	6	NA	0.30	Unpaved	Unpaved	Lease Owner	Route Map attached
Kanhar Ghat 03, Vill-Libra alias paras panikalan & Murhpur alias Pachpheri, Block-Dhurki	Road towards Khala & Barahnoti	122	NA	1.27	Unpaved	Unpaved	Lease Owner	Route Map attached
Kanhar Ghat 04, Vill-Murhpur alias Pachpheri, Block-Dhurki	Road towards Khala & Barahnoti	24	NA	1.7	Unpaved	Unpaved	Lease Owner	Route Map attached
Kanhar Ghat 05, Vill-Dhasni, Block-Bhandaria	Road towards Janewa & Mahugain	10	NA	0.38	Unpaved	Unpaved	Lease Owner	Route Map attached
Kanhar Ghat 06, Vill-Janewa, Block-Bhandaria	Road towards Ramanujgang & Mahugain	31	NA	0.35	Unpaved	Unpaved	Lease Owner	Route Map attached
Kanhar Ghat 07, Vill-Bhauri & Chutia, Block-Ranka	Road towards Ramanujgang & Garhwa	12	NA	0.27	Unpaved	Unpaved	Lease Owner	Route Map attached
Kanhar Ghat 08, Vill-Anhar, Block-Ranka	Road towards Bandu & Baradih	16	NA	1.54	Unpaved	Unpaved	Lease Owner	Route Map attached
Kanhar Ghat 09, Vill-Anhar, Block-Ranka	Road towards Bandu & Baradih	30	NA	0.61	Unpaved	Unpaved	Lease Owner	Route Map attached
Kanhar Ghat 10, Vill-Dudhwal, Block-Ranka	Road towards Hariharpur & Baradih	22	NA	0.59	Unpaved	Unpaved	Lease Owner	Route Map attached



Order A

Enforcement & Monitoring Guidelines for Sand Mining

Kanhar Ghat 11, Vill-Murhpur alias Pachpheri & Machhpani, Block-Dhurki	Road towards Khala & Barahnoti	12	NA	2.82	Unpaved	Unpaved	Lease Owner	Route Map attached
Kanhar Ghat 12, Vill-Machhpani, Block-Dhurki	Road towards Khala & Barahnoti	55	NA	1.35	Unpaved	Unpaved	Lease Owner	Route Map attached
Sone River								
Son Ghat 1 Vill-Gara khurd & Sunripura, Block-Kandi	Road towards Kandi & Haidar Nagar	663	NA	0.85	Unpaved	Unpaved	Lease Owner	Route Map attached
Son Ghat 2 Vill-Baliari, Gara kalan & Gara Khurd, Block-Kandi	Road towards Kandi & Haidar Nagar	793	NA	1.12	Unpaved	Unpaved	Lease Owner	Route Map attached
Son Ghat 3 Vill-Dumarsota, Raje, Kishunpur, Nawadih & Sonpura, Block-Bhawanathpur & Kandi	Road towards Kandi & Gara Khurd	684	NA	0.90	Unpaved	Unpaved	Lease Owner	Route Map attached
Son Ghat 4 Kosdehra, Merauni Chherhat, Lohargara & Hariharpur, Block-Bhawanathpur & Kater	Road towards Kandi & Bansdih Khurd	1693	NA	0.50	Unpaved	Unpaved	Lease Owner	Route Map attached
Son Ghat 5 Vill-Parti kuswani, Munmun, Pachadumar, Gamharia, Bijdi & Chandih, Block-Kater	Road towards Majhagawan & Ketar	4110	NA	0.80	Unpaved	Unpaved	Lease Owner	Route Map attached
Son Ghat 6 Vill-Pipra & Parti Kuswani, Block-Ketar & Kharaondi	Road towards Majhagawan & Parti Kuswani	452	NA	0.80	Unpaved	Unpaved	Lease Owner	Route Map attached
Son Ghat 7 Vill- Khokha & Chanda, Block-Kharaondi	Road towards Majhagawan & Parti Kuswani	1224	NA	0.50	Unpaved	Unpaved	Lease Owner	Route Map attached
Koyal River								
North Koyal Ghat 1 Vill-Kharaundha, Bhurwa, Jainagar & Korgain, Block-Kandi	Road towards Kharsota & Noughatta	1160	NA	1.45	Unpaved	Unpaved	Lease Owner	Route Map attached

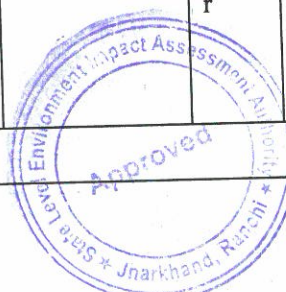


Enforcement & Monitoring Guidelines for Sand Mining

North Koyal Ghat 2 Vill-Korgain & Mukhapi, Block- Kandi	Road towards Kharsota & Nouhatta	122	NA	1.37	Unpaved	Unpaved	Lease Owner	Route Map attached
North Koyal Ghat 3 Vill- Mukhapi, Ranadih, Sohgara & Bhandaria, Block- Kandi	Road towards Kharsota & Nouhatta	992	NA	1.42	Unpaved	Unpaved	Lease Owner	Route Map attached
North koyal Ghat 4 Vill-Morwe & Kharsota, Block- Majhiaon	Road towards Sirha & Muhammadganj	382	NA	0.96	Unpaved	Unpaved	Lease Owner	Route Map attached
North Koyal Ghat 5 Vill- Kharsota & Burhikhar, Block- Majhiaon	Road towards Sirha & Muhammadganj	461	NA	1.11	Unpaved	Unpaved	Lease Owner	Route Map attached
North Koyal Ghat 6 Vill- Majhiganwan Khurd Block- Majhiaon	Road towards Adhaura & Bakoia	87	NA	0.54	Unpaved	Unpaved	Lease Owner	Route Map attached
North Koyal Ghat 7 Vill-Majhiganwan Kalan, Block- Majhiaon	Road towards Adhaura & Bakoia	167	NA	0.98	Unpaved	Unpaved	Lease Owner	Route Map attached
North Koyal Ghat 8 Vill-Bakoia, Block- Majhiaon	Road towards Manjhiaon & Bokeya	35	NA	0.69	Unpaved	Unpaved	Lease Owner	Route Map attached
North Koyal Ghat 9 Vill-Amar Chhechharia, Khajuri Nawadih, Bajudih & Ataula, Block- Majhiaon & Meral	Road towards Manjhiaon & Bokeya	180	NA	1.09	Unpaved	Unpaved	Lease Owner	Route Map attached
North Koyal Ghat 10 Vill-Patsi & Darmi, Block-Garhwa	Road towards Chamrahi & Garhwa	134	NA	0.23	Unpaved	Unpaved	Lease Owner	Route Map attached

Cluster:

Clust er No	Transporta tion Route No	Num ber of tipper s /day of cluste r	Num ber of tipper s /day of all the cluste rs on route	Leng th of Rout e in KM	Type of Road (Black Toppe d/ unpav ed)	Recommen dation for road(Black Topped/ unpaved)	The road will be Construc ted by Govt/Lea se Owner	Route Map & Locati on
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Enforcement & Monitoring Guidelines for Sand Mining

Kanhar 03-04	Road towards Khala & Barahnoti	146	NA	2.97	Unpaved	Unpaved	Lease Owner	Route Map attached
Sone 01-02	Road towards Kandi & Haidar Nagar	1456	NA	1.97	Unpaved	Unpaved	Lease Owner	Route Map attached
North Koyal 01-03	Road towards Kharsota & Nouhatta	2274	NA	4.24	Unpaved	Unpaved	Lease Owner	Route Map attached
North Koyal 04-05	Road towards Sirha & Muhammadganj	842	NA	2.07	Unpaved	Unpaved	Lease Owner	Route Map attached
North Koyal 06-07	Road towards Adhaura & Bakoia	254	NA	1.52	Unpaved	Unpaved	Lease Owner	Route Map attached



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Final List of Potential Mining Leases (existing & proposed)

Rivers

Sl.No	Lease Details	AREA_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:1.59, Depth :2 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020)	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing/ Proposed
1	Son Ghat 1 Vill-Gara khurd & Sunripura, Block-Kandi	83.4	-	More than 250m	Yes, Area:183.1 Ha.	2652120	1591272	Sand	Proposed
2	Son Ghat 2 Vill-Baliari, Gara kalan & Gara Khurd, Block- Kandi	99.7	-	More than 250m		3170460	1902276	Sand	Proposed
3	Son Ghat 3 Vill-Dumarsoota, Block- Bhawanathpur	86	-	More than 250m	No	2734800	1640880	Sand	Proposed



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Enforcement & Monitoring Guidelines for Sand Mining

4	Son Ghat 4 Kosdehra, Merauni Chherhat, Lohargara, Block - Bhawanathpur & Kater	213	-	More than 250m	NO	6773400	4064040	Sand	Proposed
5	Son Ghat 5-1 Vill-Parti kuswani, Munmun, Block- Kater	71-3	-	More than 250m	NO	2267340	1360404	Sand	Proposed
6	Son 5-2 Vill- Gamharia, Bijdihi & Chandih, Block- Ketar	58-5	-	More than 250m	NO	1860300	1116180	Sand	Proposed
7	Son Ghat 6 Vill-Pipra & Parti Kuswani, Block- Kharaundhi & Ketar	44-7	-	More than 250m	NO	1421460	852876	Sand	Proposed
8	Son Ghat 7 Vill- Khokha & Chanda, Block- Kharaundhi	154	-	More than 250m	NO	4897200	2938320	Sand	Proposed



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(Note: As per DFO Report, North Division, Garhwa, the proposed Sand ghat Son 05 & Son 06 has been reduced due to the distance from forest within 250m.)

Enforcement & Monitoring Guidelines for Sand Mining

Sl.No	Lease Details	AREA_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:1.60, Depth :2 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020)	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing/ Proposed
1	North Koyal Ghat 1 Vill-Kharaundha, Bhurwa, Jainagar & Korgain, Block-Kandi	145	-	More than 250m		4640000	2784000	Sand	Proposed
2	North Koyal Ghat 2 Vill-Korgain & Mukhapi, Ranadih Block- Kandi	15.3	-	More than 250m	Yes, Area: 284.3 Ha.	489600	293760	Sand	Proposed
3	North Koyal Ghat 3 Vill- Ranadih, Sohgara & Bhandaria, Block- Kandi	124	-	More than 250m		3968000	2380800	Sand	Proposed
4	North koyal Ghat 4 Vill-Morwe & Kharsota, Block- Majhiaon	47.7	-	More than 250m	Yes, Area: 105.3 Ha.	1526400	915840	Sand	Proposed
5	North Koyal Ghat 5 Vill- Kharsota & Burhikhar, Block- Majhiaon	57.6	-	More than 250m		1843200	1105920	Sand	Proposed
6	North Koyal Ghat 6 Vill- Majhiaon Khurd & Majhiaon Kalan,	10.9	-	More than 250m	Yes, Area: 31.8 Ha.	348800	209280	Sand	Proposed



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Enforcement & Monitoring Guidelines for Sand Mining

Block-Majhiaon													
7	North Koyal Ghat Vill- Majhiaon Kalan , Block- Majhiaon	20.9	-	More than 250m			668800	401280	Sand	Proposed			
8	North Koyal Ghat Vill-Bakoia, Chheriaha Block- Majhiaon	4.38	-	More than 250m	NO		140160	84096	Sand	Proposed			
9	North Koyal Ghat Vill-Amar Chhechharia, Khajuri Nawadih, Bajudih & Ataula, Block-Majhiaon & Meral	22.5	-	More than 250m	NO		720000	432000	Sand	Proposed			
10	North Koyal Ghat Vill-Patsi & Darmi, Block- Garhwa	16.8	-	More than 250m	NO		537600	322560	Sand	Proposed			

Approved
 State Level Env. & Forest Deptt. Assesment Authority
 Jharkhand, Ranchi

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

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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-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)
Sone	2	Sone 01-02	Riverbed	Gara khurd & Sunripura, Baliari, Gara kalan & Gara Khurd	183.1	5822580	34,93,548
Koyal	3	North Koyal 01-03	Riverbed	Kharaundha, Bhurwa, Jainagar & Korgain, Mukhapi, Ranadih, Sohgara & Bhandaria	284.3	9097600	54,58,560
	4	North Koyal 04-05	Riverbed	Morwe & Kharsota, Burhikhar	105.3	3369600	20,21,760
	5	North Koyal 06-07	Riverbed	Majhiganwan Khurd, Majhiganwan Kalan,	31.8	1017600	6,10,560

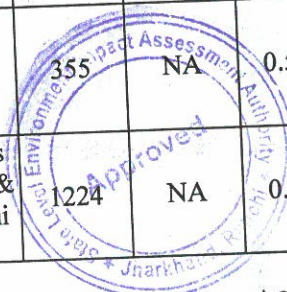
Contiguous Clusters:

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)
Konhar	NA	NA	NA	NA	NA	NA	NA	NA
Sone	NA	NA	NA	NA	NA	NA	NA	NA
Koyal	NA	NA	NA	NA	NA	NA	NA	NA



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
Sone River								
Son Ghat 1 Vill-Gara khurd & Sunripura, Block-Kandi	Road towards Kandi & Haidar Nagar	663	NA	0.85	Unpaved	Unpaved	Lease Owner	Route Map attached
Son Ghat 2 Vill-Baliari, Gara kalan & Gara Khurd, Block-Kandi	Road towards Kandi & Haidar Nagar	793	NA	1.12	Unpaved	Unpaved	Lease Owner	Route Map attached
Son Ghat 3 Vill-Dumarsota, Block-Bhawanathpur	Road towards Kandi & Gara Khurd	684	NA	0.90	Unpaved	Unpaved	Lease Owner	Route Map attached
Son Ghat 4 Kosdehra, Merauni Chherhat, Lohargara, Block - Bhawanathpur & Kater	Road towards Kandi & Bansdih Khurd	1693	NA	0.50	Unpaved	Unpaved	Lease Owner	Route Map attached
Son Ghat 5-1 Vill-Parti kuswani, Munmun, Block-Kater	Kariwadih-Chandana-Panchdumar Road	567	NA	2.96	Unpaved	Unpaved	Lease Owner	Route Map attached
Son 5-2 Vill- Gamharia, Bijdi & Chandih, Block- Ketar	Bhawnathpur-Ketar-Panchdumar Road	465	NA	2.9	Unpaved	Unpaved	Lease Owner	Route Map attached
Son Ghat 6 Vill-Pipra & Parti Kuswani, Block-Kharaundhi & Ketar	Kariwadih-Chandana-Panchdumar Road	1224	NA	0.55	Unpaved	Unpaved	Lease Owner	Route Map attached
Son Ghat 7 Vill- Khokha & Chanda, Block-Kharaundhi	Road towards Majhagawan & Parti Kuswani	1224	NA	0.50	Unpaved	Unpaved	Lease Owner	Route Map attached



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Enforcement & Monitoring Guidelines for Sand Mining

North Koyal River

Cluster No	Transportation Route No	Number of tipper s /day of cluster	Number of tipper s /day of all the cluster	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	
North Koyal Ghat 1	Vill-Kharaundha, Bhurwa, Jainagar & Korgain, Block-Kandi	Road towards Kharsota & Nouhatta	1160	NA	1.45	Unpaved	Unpaved	Lease Owner	Route Map attached
North Koyal Ghat 2	Vill-Korgain & Mukhapi, Ranadih Block-Kandi	Road towards Kharsota & Nouhatta	122	NA	1.37	Unpaved	Unpaved	Lease Owner	Route Map attached
North Koyal Ghat 3	Vill- Ranadih, Sohgara & Bhandaria, Block-Kandi	Road towards Kharsota & Nouhatta	992	NA	1.42	Unpaved	Unpaved	Lease Owner	Route Map attached
North koyal Ghat 4	Vill-Morwe & Kharsota, Block-Majhiaon	Road towards Sirha & Muhammadganj	382	NA	0.96	Unpaved	Unpaved	Lease Owner	Route Map attached
North Koyal Ghat 5	Vill- Kharsota & Burhikhar, Block-Majhiaon	Road towards Sirha & Muhammadganj	461	NA	1.11	Unpaved	Unpaved	Lease Owner	Route Map attached
North Koyal Ghat 6	Vill- Majhiaon Khurd & Majhiaon Kalan, Block-Majhiaon	Road towards Adhaura & Bakoia	87	NA	0.54	Unpaved	Unpaved	Lease Owner	Route Map attached
North Koyal Ghat 7	Vill- Majhiaon Kalan , Block-Majhiaon	Road towards Adhaura & Bakoia	167	NA	0.98	Unpaved	Unpaved	Lease Owner	Route Map attached
North Koyal Ghat 8	Vill-Bakoia, Chheriaha Block-Majhiaon	Road towards Manjhiaon & Bokeya	35	NA	0.69	Unpaved	Unpaved	Lease Owner	Route Map attached
North Koyal Ghat 9	Vill-Amar Chhechharia, Khajuri Nawadih, Bajudih & Ataula, Block-Majhiaon & Meral	Road towards Manjhiaon & Bokeya	180	NA	1.09	Unpaved	Unpaved	Lease Owner	Route Map attached
North Koyal Ghat 10	Vill-Patsi & Darmi, Block-Garhwa	Road towards Chamrahi & Garhwa	134	NA	0.23	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 cluster	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

			rs on route		ed)			
Sone 01-02	Road towards Kandi & Haidar Nagar	1456	NA	1.97	Unpaved	Unpaved	Lease Owner	Route Map attached
North Koyal 01-03	Road towards Kharsota & Nouhatta	2274	NA	4.24	Unpaved	Unpaved	Lease Owner	Route Map attached
North Koyal 04-05	Road towards Sirha & Muhammadganj	842	NA	2.07	Unpaved	Unpaved	Lease Owner	Route Map attached
North Koyal 06-07	Road towards Adhaura & Bakoia	254	NA	1.52	Unpaved	Unpaved	Lease Owner	Route Map attached



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ANNEXURE- I
(Haul Road Map)



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**HAUL ROAD MAP
OF THE PROJECT SITE**

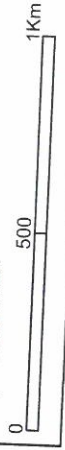
Legend

- Project Site
- Haul Road
- Metalled Road

Project: 1_0.89ha
Kanhar River
Dist-Garhwa

Source: Google Earth Image

Graphical Scale:



24°554.31'N

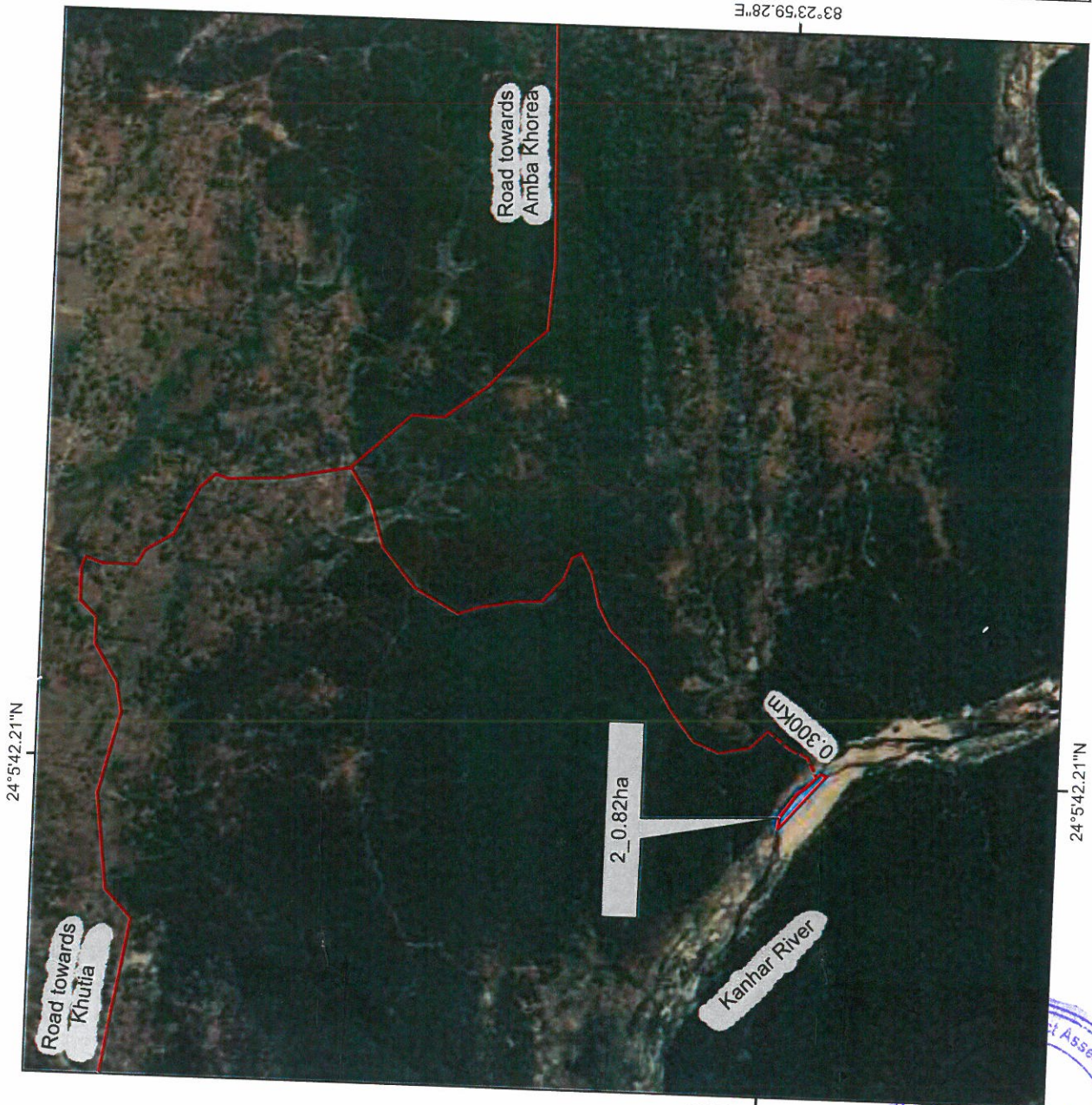
24°554.31'N

83°20'36.99'E

83°20'36.99'E

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**HAUL ROAD MAP
OF THE PROJECT SITE**

Legend

- Project Site
- Haul Road
- Metalled Road

Project: 2_0.82ha
Kanhar River
Dist-Garhwa

Source: Google Earth Image

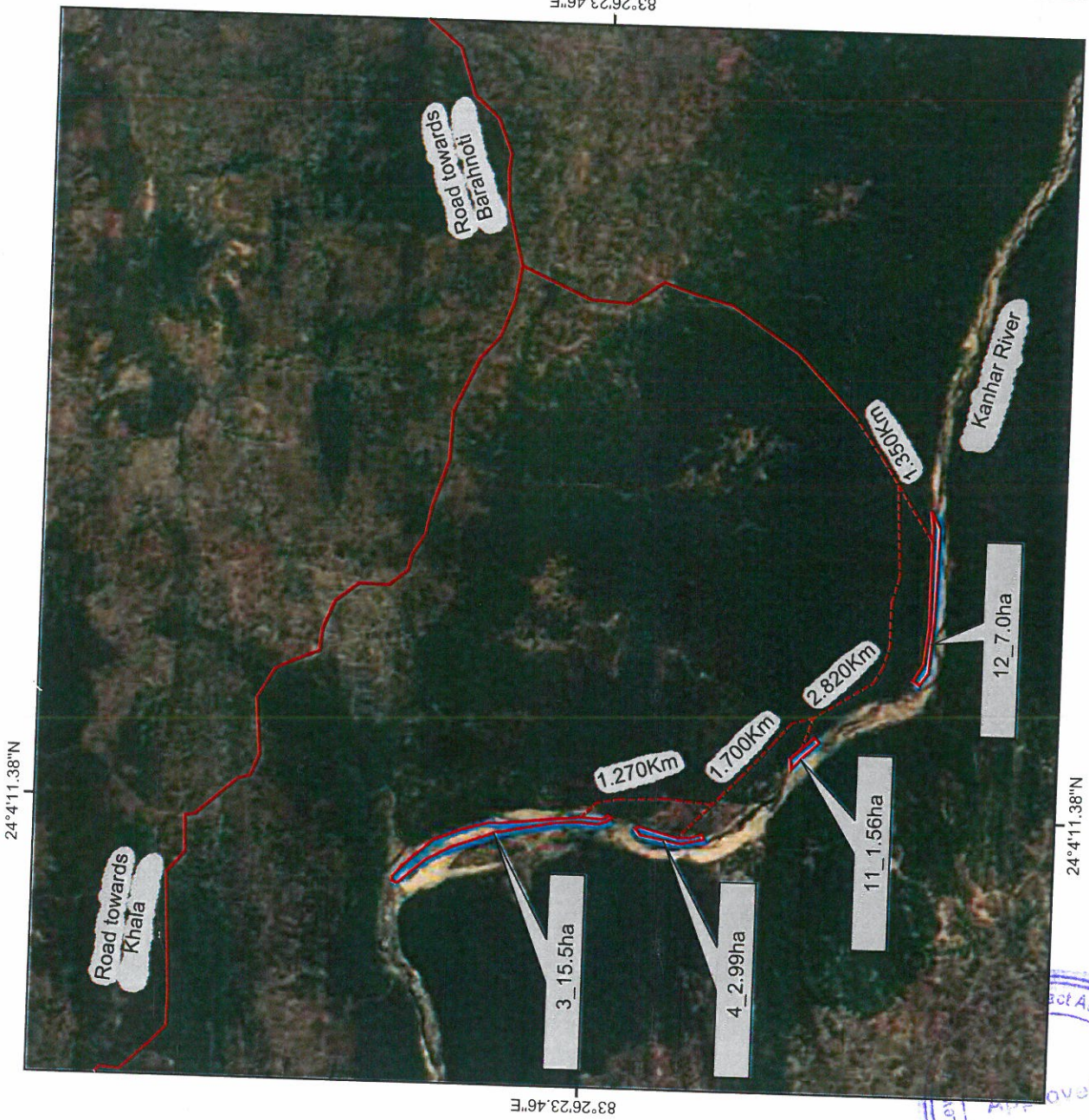
Graphical Scale:



83°23'49.28"E

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24°4'11.38"N

24°4'11.38"N

83°26'23.46"E

83°26'23.46"E

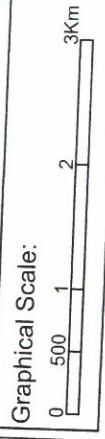


**HAUL ROAD MAP
OF THE PROJECT SITE**

- Legend**
- Project Site
 - Haul Road
 - Metalled Road


Project: 3_15.5ha, 4_2.99ha, 11_1.46ha
12_7.0ha
Kanhra River
Dist-Garhwa

Source: Google Earth Image



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**HAUL ROAD MAP
OF THE PROJECT SITE**


Legend

- Project Site
- Haul Road
- Metalled Road

Project: 5_1.28ha Dhasni
Kanhra River
Dist-Garhwa

Source: Google Earth Image


Graphical Scale:





A





**HAUL ROAD MAP
OF THE PROJECT SITE**


Legend

- Project Site
- Houli Road
- Metalled Road

Project: 6_3.91ha Janewa
Kanhra River
Dist-Garhwa

Source: Google Earth Image

Graphical Scale:







A





**HAUL ROAD MAP
OF THE PROJECT SITE**

- Legend**
-  Project Site
 -  Haul Road
 -  Metalled Road

Project: 7_1.52ha Godermana
Kanhra River
Dist-Garhwa

Source: Google Earth Image



83°42'26.03\"/>

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23°52'12.91"N

83°34'12.68"E

23°52'12.91"N



83°34'12.68"E



**HAUL ROAD MAP
OF THE PROJECT SITE**

Legend

- Project Site
- Haul Road
- Metalled Road

Project: 8_2.02ha Baghokudar
9_3.86ha Baghokudar
Kanhhar River
Dist-Garhwa

Source: Google Earth Image

Graphical Scale:



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HAUL ROAD MAP
OF THE PROJECT SITE

Legend



Project Site



Haul Road



Metalled Road

Project: 10_2.83ha Dudhwal
Kanhra River
Dist-Garhwa

Source: Google Earth Image

Graphical Scale:



83°33'18.03\"/>





83°50'24.13\"/>



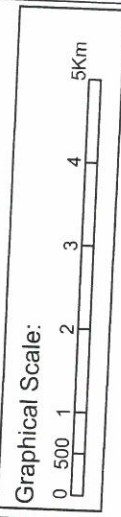
**HAUL ROAD MAP
OF THE PROJECT SITE**

Legend

- Project Site
- Haul Road
- Metalled Road

Project: 1_83.4HA_SUNIRIPURA
 2_99.70HA_GARA KALAN & GARA KHURD
 Son River
 Dist-Garhwa

Source: Google Earth Image



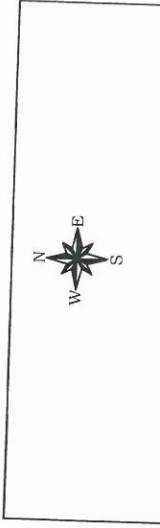
24°31'47.97\"/>

24°31'47.97\"/>

83°50'24.13\"/>

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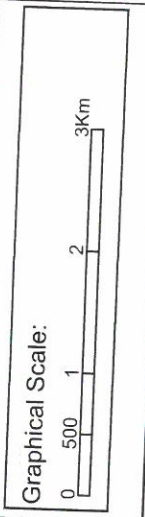
**HAUL ROAD MAP
OF THE PROJECT SITE**

Legend

- Project Site
- Houll Road
- Metalled Road

Project: 3_86Ha_Dumarsola,
Pindraha, Nawadih, Sonpura
Son River
Dist-Garhwa

Source: Google Earth Image



24°29'59.57"N

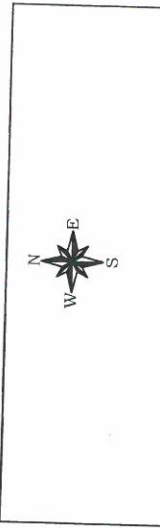
83°46'11.49"E

83°46'11.49"E

24°29'59.57"N

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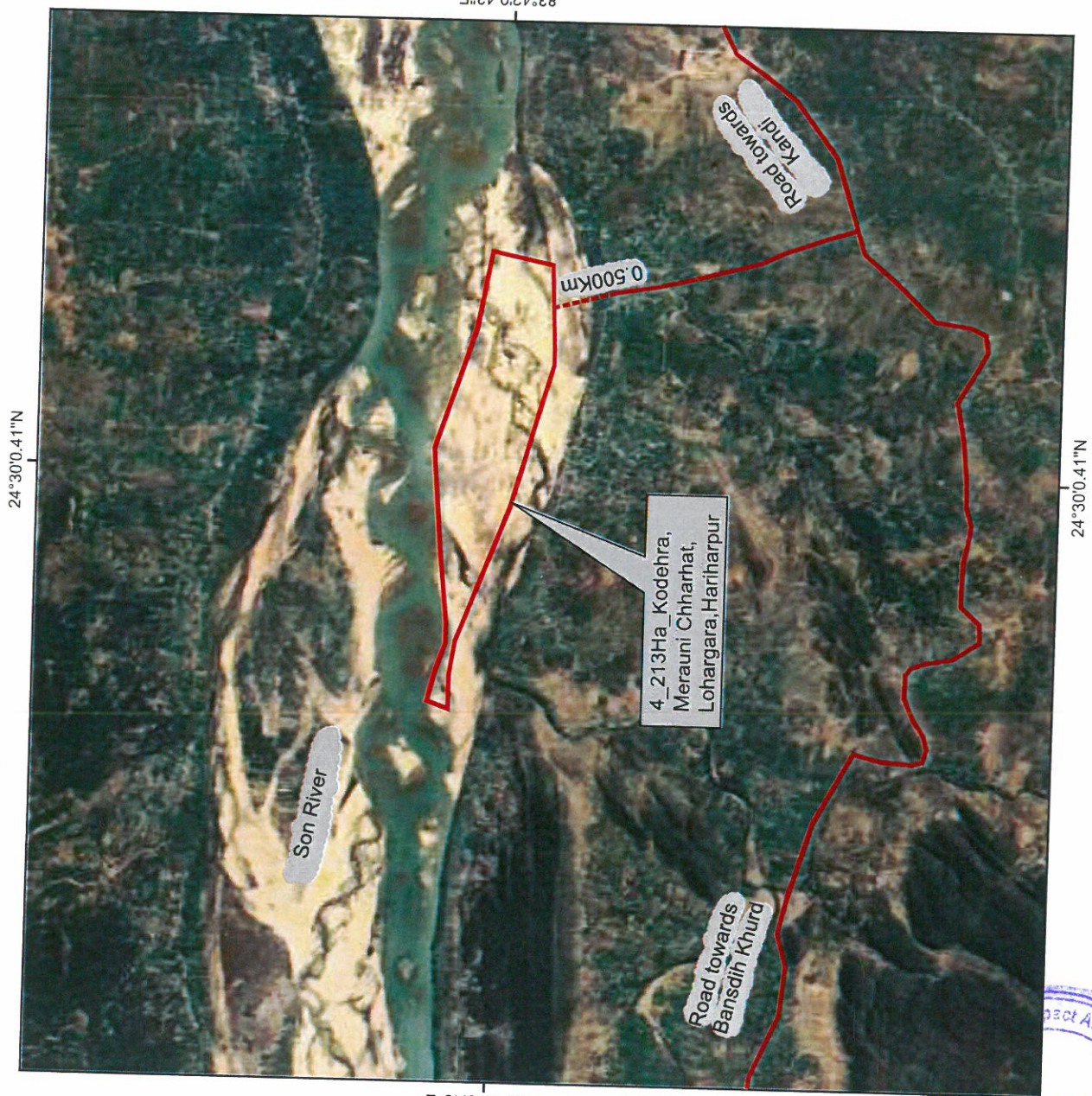
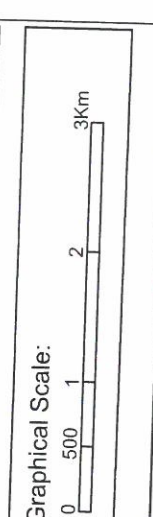
**HAUL ROAD MAP
OF THE PROJECT SITE**

Legend

- Project Site (Red outline)
- Houl Road (Dashed red line)
- Metalled Road (Solid red line)

Project: 4_213Ha_Kodehra,
Merauni Chharhat, Lohargara,
Hariharpur
Son River
Dist-Garhwa

Source: Google Earth Image



83°42'0.43\"/>

83°42'0.43\"/>



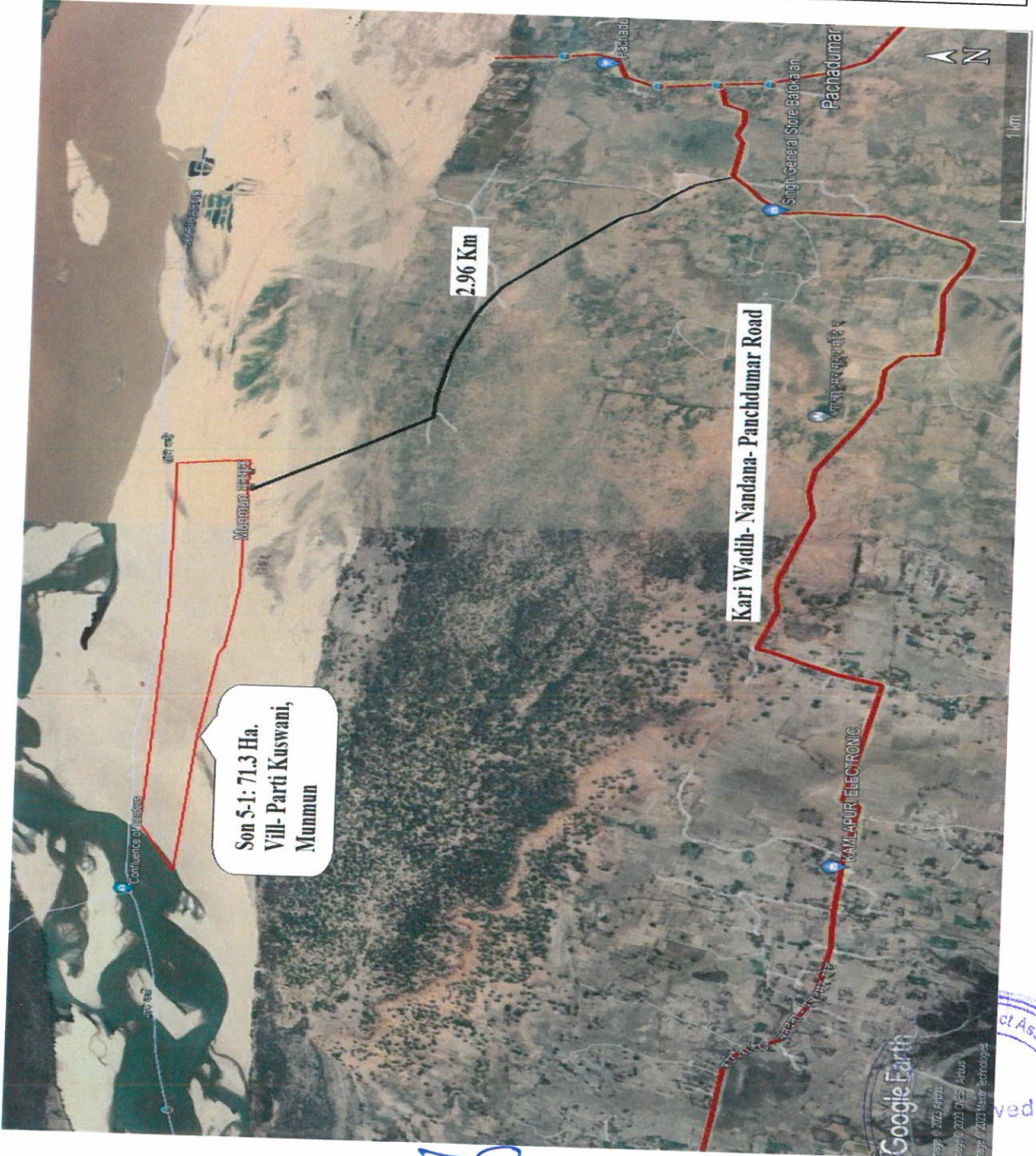
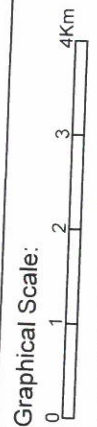


HAUL ROAD MAP OF THE PROJECT SITE

- Legend
- Project Site
 - Haul Road
 - Metalled Road

Project: Son 5-1_71.3Ha
Parti Kuswani, Munmun,
Son River
Dist-Garhwa

Source: Google Earth Image



Son 5-1: 71.3 Ha.
Vill- Parti Kuswani,
Munmun

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HAUL ROAD MAP OF THE PROJECT SITE

Legend



Project Site



Haul Road



Metalled Road

Project: 7_154Ha_Khokha Chandna
Son River
Dist-Garhwa


Source: Google Earth Image

Graphical Scale:



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**HAUL ROAD MAP
OF THE PROJECT SITE**


Legend

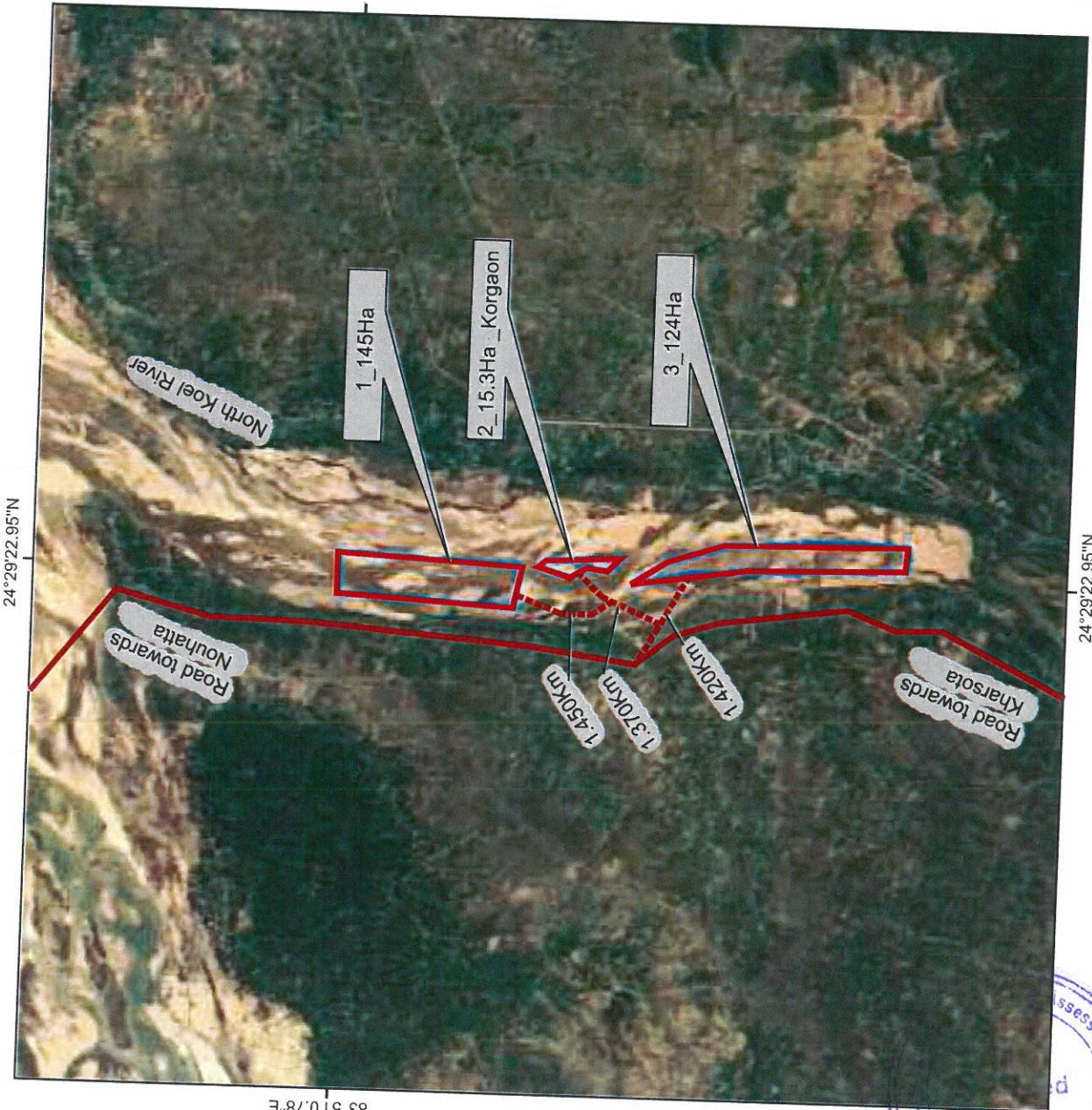
- Project Site
- Hou Road
- Metalled Road

Project: 1_145Ha,
2_15.3Ha_Korgaon,3_124Ha
North Koel River
Dist-Garhwa

Source: Google Earth Image


Graphical Scale:





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**HAUL ROAD MAP
OF THE PROJECT SITE**


Legend

- Project Site
- Haul Road
- Metalled Road

Project: 4_47.7Ha,_Morwe
5_57.6Ha,_Kharasota
North Koel River
Dist-Garhwa

Source: Google Earth Image


Graphical Scale:









**HAUL ROAD MAP
OF THE PROJECT SITE**


Legend

- Project Site
- Haul Road
- Metalled Road

Project: 6_10.9Ha,_Manjhiaon Khurd
7_20.9Ha,_Manjhiaon Kalan
North Koel River
Dist-Garhwa

Source: Google Earth Image

Graphical Scale:



83°49'29.87"E



24°19'48.09"N

24°19'48.09"N

83°49'29.87"E

[Handwritten signature]





HAUL ROAD MAP
OF THE PROJECT SITE

Legend



Project Site



Haul Road



Metalled Road

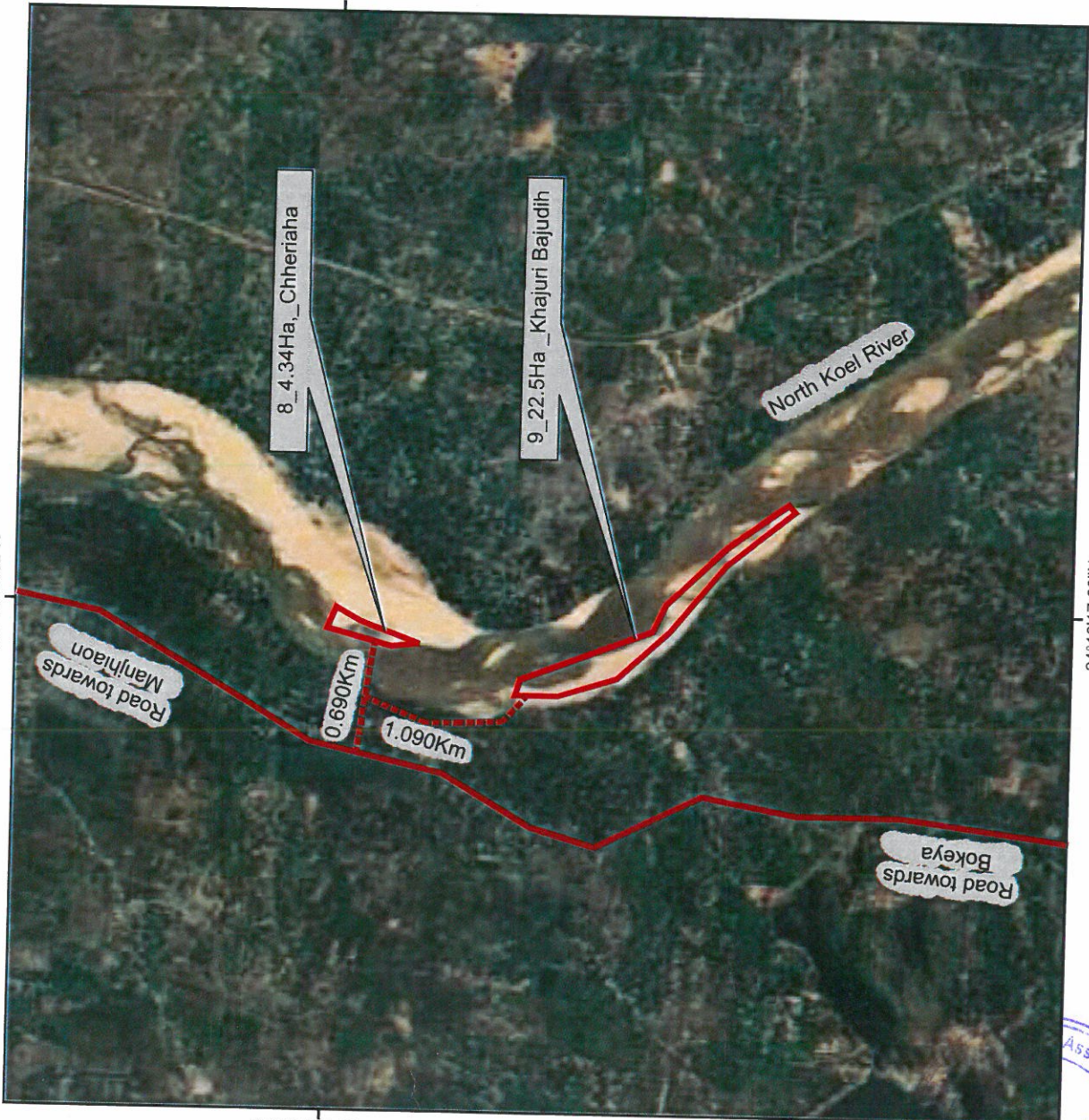
Project: 8_4.34Ha,_Chheriaha
9_22.5Ha _Khajuri Bajudih
North Koel River
Dist-Garhwa

Source: Google Earth Image

Graphical Scale:



83°49'12.05"E




24°18'17.62"N

24°18'17.62"N

83°49'12.05"E

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**HAUL ROAD MAP
OF THE PROJECT SITE**

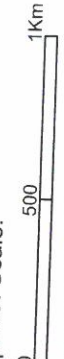
Legend

- Project Site
- Haul Road
- Metalled Road

Project: 10_16.8Ha,_Patsi & Darmi
North Koel River
Dist-Garhwa

Source: Google Earth Image

Graphical Scale:



83°51'36.07"E



24°14'24.56"N

24°14'24.56"N

83°51'36.07"E

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ANNEXURE- J

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



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झारखण्ड सरकार
खान एवं भूतत्व विभाग
जिला खनन कार्यालय, गढ़वा।
email:- dmo-garhwa@jharkhandmail.gov.in

पत्रांक...../एम0, दिनांक.....

प्रेषक

सेवा में,

सहायक खनन पदाधिकारी,
गढ़वा।

निदेशक
गंगेटिक प्लेन्स रिजनल सेण्टर
भारतीय प्राणी सर्वेक्षण संस्थान
बहादुरपुर हाउसिंग कालोनी, सेक्टर-8
पटना-800026, बिहार।

विषय :- झारखण्ड के गढ़वा जिले में प्रस्तावित बालू घाटों के निकट उतरी कोयल, सोन, कनहर, तहले एवं दानरो नदी में जलीय जंतुओं की उपस्थिति के विवरण उपलब्ध कराने के संबंध में

महाशय,

उपरोक्त विषय के संदर्भ में कहना है कि गढ़वा के बालू खनिज के लिए जिला सर्वेक्षण प्रतिवेदन तैयार करने का कार्य प्रगति पर है। SEAC द्वारा दिये गये निर्देश के अनुसार झारखण्ड को प्रस्तावित बालू घाट के निकट नदी में जलीय जीव-जन्तु की उपस्थिति के संबंध में विवरणी प्रस्तुत करने की आवश्यकता है, जो भारत सरकार के Zoological सर्वे द्वारा सत्यापित और प्रमाणित हो।

अतः अनुरोध है कि नदी में जलीय जंतुओं की उपस्थिति का विवरण उपलब्ध कराने की कृपा की जाय।
“सूचनार्थ”।

विश्वासभाजन

ह0/-

सहायक खनन पदाधिकारी,
गढ़वा।

ज्ञापक143...../ एम0 दिनांक 24.1.2023
प्रतिलिपि:- M/s RAIN Inviro Pvt Ltd Patna को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।



24.1.2023
सहायक खनन पदाधिकारी,
गढ़वा।

24/1/2023



झारखण्ड सरकार

कार्यालय, जिला मत्स्य पदाधिकारी-सह-मुख्य कार्यपालक पदाधिकारी, गढ़वा

ई-मेल-dfogarhwa.fisheries@gmail.com

पत्रांक.....४३...../

प्रेषक,

जिला मत्स्य पदाधिकारी-सह-
मुख्य कार्यपालक पदाधिकारी,
गढ़वा।

सेवा में,

सहायक निदेशक, भूतत्व
जिला भूतात्विक कार्यालय,
पलामू।

मत्स्य/गढ़वा, दिनांक.२०.०२.२०२३/

विषय :- जलीय जीवों के सूचना के संबंध में।

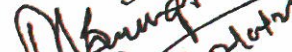
प्रसंग :- भवदीय पत्रांक-30 दिनांक 04.02.2023

महाशय,

उपर्युक्त प्रसंगाधीन विषयक संबंध में सूचित करना है कि गढ़वा जिलान्तर्गत बालू खनिज के लिए District Survey Report (DSR) तैयार करने हेतु नदियों/जलीय निकायों में पाये जाने वाले जलीय जीवों/मछलियों से संबंधित सूचना इस प्रकार है-
चेलवा, पोठिया, नेटा, गरैय, मांगुर, कवई, पत्थलचटा, डोरी, चिंगरी, केकड़ा, मृगल, रोहू, कतला, बोआरी, ग्रास कार्प, टेंगरा आदि।

आवश्यक कार्यार्थ सूचनार्थ प्रेषित।

विश्वासभाजन


जिला मत्स्य पदाधिकारी-सह-
मुख्य कार्यपालक पदाधिकारी,
गढ़वा



Scanned with CamScanner

Scanned by CamScanner

ANNEXURE – K
(Pre- Monsoon data provided by District mining office,
Garhwa)



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Pre monsoon Garhwa

SLNo	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Volume in M. Cum
Estimation of Sand Resources in Pre monsoon period of Kanhar River				
1	PRE_GW_KH_01	247	4437.746776	0.009
2	PRE_GW_KH_02	246	7944.389521	0.016
3	PRE_GW_KH_03	264	37128.06838	0.074
4	PRE_GW_KH_04	263	9396.206347	0.019
5	PRE_GW_KH_05	277	152334.8765	0.305
6	PRE_GW_KH_06	286	38592.14591	0.077
7	PRE_GW_KH_07	285	93786.97808	0.188
8	PRE_GW_KH_08	282	7681.334183	0.015
9	PRE_GW_KH_09	284	55120.58282	0.11
10	PRE_GW_KH_10	300	10545.84137	0.021
11	PRE_GW_KH_11	299	11389.76845	0.023
12	PRE_GW_KH_12	300	55723.18447	0.111
13	PRE_GW_KH_13	304	25026.18676	0.05
14	PRE_GW_KH_14	302	42177.26945	0.084
15	PRE_GW_KH_15	305	20274.14086	0.041
16	PRE_GW_KH_16	304	7707.421392	0.015
17	PRE_GW_KH_17	303	6709.47997	0.013
18	PRE_GW_KH_18	302	24313.55917	0.049
19	PRE_GW_KH_19	370	11320.61942	0.023
20	PRE_GW_KH_20	368	18769.11351	0.038
21	PRE_GW_KH_21	370	10305.7981	0.021
22	PRE_GW_KH_22	371	8751.349352	0.018
23	PRE_GW_KH_23	374	110312.3641	0.221
24	PRE_GW_KH_24	377	84144.85145	0.168
25	PRE_GW_KH_25	380	105355.1602	0.211
26	PRE_GW_KH_26	384	123769.3395	0.248



27	PRE_GW_KH_27	383	39039.03666	0.078
28	PRE_GW_KH_28	385	45658.407	0.091
29	PRE_GW_KH_29	388	14259.77856	0.029
30	PRE_GW_KH_30	390	74786.91825	0.15
31	PRE_GW_KH_31	395	10539.27168	0.021
32	PRE_GW_KH_32	399	16278.22554	0.033
33	PRE_GW_KH_33	397	24711.04147	0.049
34	PRE_GW_KH_34	401	46924.3872	0.094
35	PRE_GW_KH_35	400	27488.68745	0.055
36	PRE_GW_KH_36	399	23943.85152	0.048
37	PRE_GW_KH_37	398	18424.99949	0.037
38	PRE_GW_KH_38	402	16894.38986	0.034
39	PRE_GW_KH_39	408	4345.251135	0.009
40	PRE_GW_KH_40	405	20208.87408	0.04
41	PRE_GW_KH_41	404	6140.653885	0.012
42	PRE_GW_KH_42	410	18460.7908	0.037
43	PRE_GW_KH_43	408	52185.65563	0.104
44	PRE_GW_KH_44	416	10995.04444	0.022
45	PRE_GW_KH_45	417	47568.21415	0.095
46	PRE_GW_KH_46	416	9218.35108	0.018
47	PRE_GW_KH_47	418	40718.32884	0.081
48	PRE_GW_KH_48	419	101095.1746	0.202
49	PRE_GW_KH_49	420	140399.4803	0.281
50	PRE_GW_KH_50	418	12090.11182	0.024
51	PRE_GW_KH_51	421	60002.52518	0.12
52	PRE_GW_KH_52	423	44584.86922	0.089
53	PRE_GW_KH_53	425	34781.20407	0.07
54	PRE_GW_KH_54	430	231354.8301	0.463
55	PRE_GW_KH_55	436	33996.03064	0.068
56	PRE_GW_KH_56	437	47039.2724	0.094

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57	PRE_GW_KH_57	436	24639.41542	0.049
58	PRE_GW_KH_58	442	36050.40234	0.072
59	PRE_GW_KH_59	444	4784.534919	0.01
60	PRE_GW_KH_60	451	193776.5117	0.388
61	PRE_GW_KH_61	463	20768.41387	0.042
62	PRE_GW_KH_62	462	4686.756231	0.009
63	PRE_GW_KH_63	461	10602.90396	0.021
64	PRE_GW_KH_64	466	44447.03764	0.089
65	PRE_GW_KH_65	465	12632.12783	0.025
66	PRE_GW_KH_66	469	27107.25561	0.054
67	PRE_GW_KH_67	468	144605.6507	0.289
68	PRE_GW_KH_68	471	34029.48549	0.068
69	PRE_GW_KH_69	472	46205.15722	0.092
70	PRE_GW_KH_70	474	76363.73048	0.153
			3037850.817	6.076

Estimation of Sand Resources in Pre monsoon period of Sone River

1	PRE_GW_SN_01	133	2963281.702	5.927
2	PRE_GW_SN_02	134	3409513.21	6.819
3	PRE_GW_SN_03	136	117405.6766	0.235
4	PRE_GW_SN_04	134	276326.5067	0.553
5	PRE_GW_SN_05	135	703673.2786	1.407
6	PRE_GW_SN_06	134	125355.4787	0.251
7	PRE_GW_SN_07	136	206199.3284	0.412
8	PRE_GW_SN_08	137	888569.1654	1.777
9	PRE_GW_SN_09	136	321315.7343	0.643
10	PRE_GW_SN_10	137	776091.712	1.552
11	PRE_GW_SN_11	139	2292014.841	4.584
12	PRE_GW_SN_12	136	211127.4595	0.422
13	PRE_GW_SN_13	134	364302.8786	0.729
14	PRE_GW_SN_14	140	103224.6427	0.206
15	PRE_GW_SN_15	139	883085.3315	1.766
16	PRE_GW_SN_16	140	1920323.468	3.841
17	PRE_GW_SN_17	138	2007962.333	4.016
18	PRE_GW_SN_18	140	1370862.114	2.742
19	PRE_GW_SN_19	141	316742.1027	0.633
20	PRE_GW_SN_20	142	1785142.613	3.57
21	PRE_GW_SN_21	141	112250.9073	0.225
22	PRE_GW_SN_22	142	150829.2468	0.302
23	PRE_GW_SN_23	142	632124.6262	1.264




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24	PRE_GW_SN_24	145	8161018.486	16.322
25	PRE_GW_SN_25	147	324441.3547	0.649
26	PRE_GW_SN_26	146	672115.6927	1.344
27	PRE_GW_SN_27	153	631357.7848	1.263
28	PRE_GW_SN_28	155	1990605.184	3.981
29	PRE_GW_SN_29	154	203386.5669	0.407
			33920649.43	67.841

Estimation of Sand Resources in Pre monsoon period North Koel River

1	PRE_GW_NK_01	160	1444121.922	2.888
2	PRE_GW_NK_02	161	151612.234	0.303
3	PRE_GW_NK_03	166	1238406.039	2.477
4	PRE_GW_NK_04	172	475999.876	0.952
5	PRE_GW_NK_05	174	576035.78	1.152
6	PRE_GW_NK_06	177	108308.633	0.217
7	PRE_GW_NK_07	180	208922.362	0.418
8	PRE_GW_NK_08	181	43745.255	0.087
9	PRE_GW_NK_09	184	222085.398	0.444
10	PRE_GW_NK_10	186	167240.776	0.334
			4636478.28	9.27


 22/11/2022
 District Mining Officer
 Garhwa
 DISTRICT MINNING OFFICER
 Garhwa



A

ANNEXURE – L
(Undertaking 9.3)



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झारखण्ड सरकार
खान एवं भूतत्व विभाग
जिला खनन कार्यालय, गढ़वा।

Letter No.

Date

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, Bhandariya, Garhwa Sadar, Kandi, Ketar, Kharundhi, Ranka, Dhurki, Meral, and Majhiaon (attached as annexure f), it is verified that none of the identified ghats in the district Garhwa is crossing any inter-district or inter-state boundary.


1.4.2023

District Assistant Mining Officer
DISTRICT MINING OFFICER
Garhwa Garhwa



A

Plate (A)
**(Plate showing sandbars in pre-
monsoon)**



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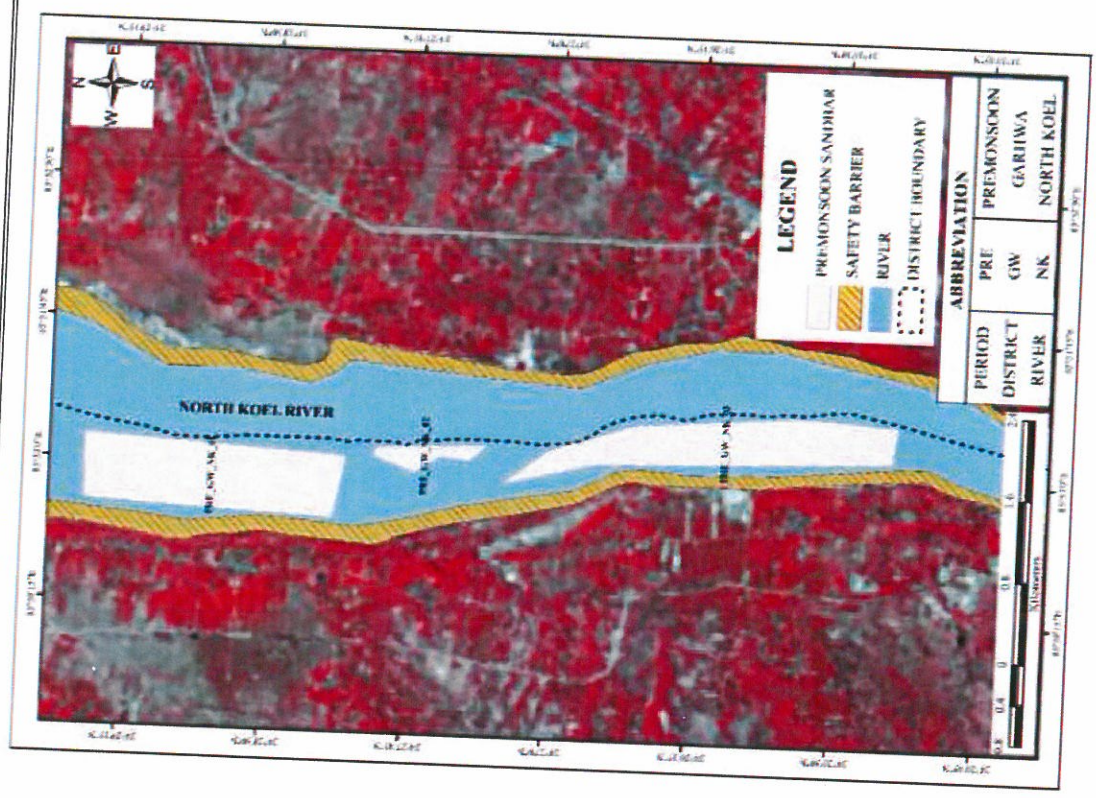


Plate No. A1: Plate showing sandbars in pre-monsoon

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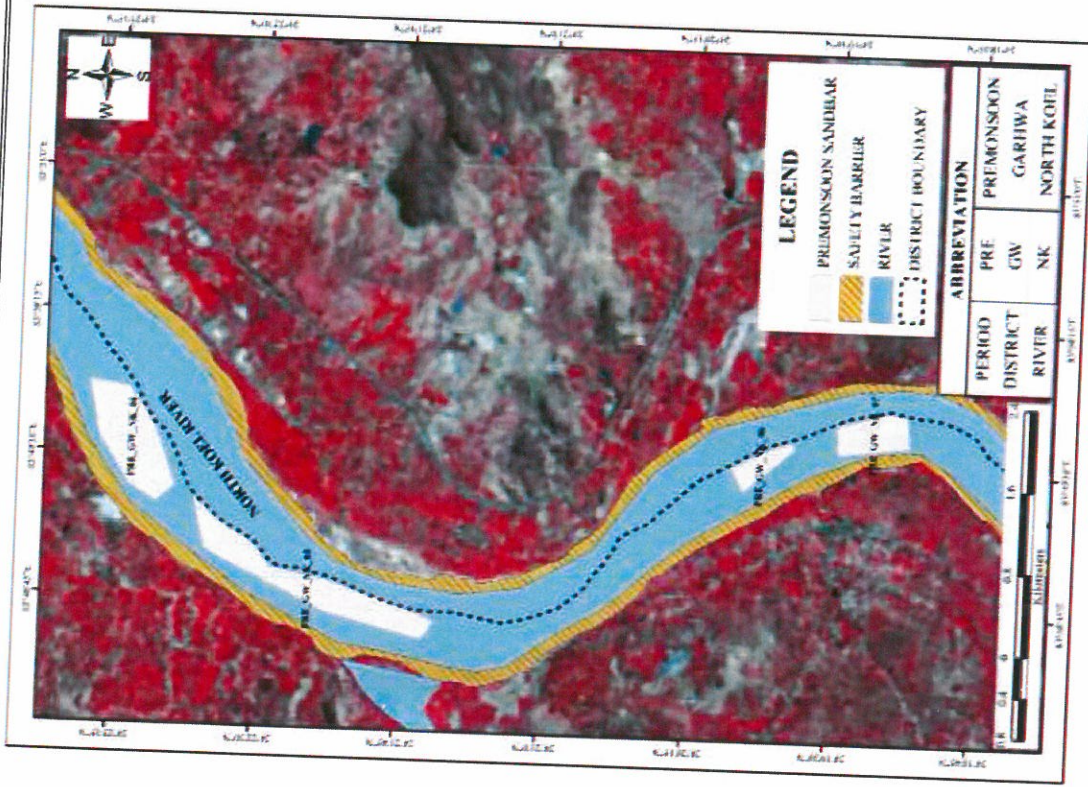


Plate No. A2: Plate showing sandbars in pre-monsoon



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A

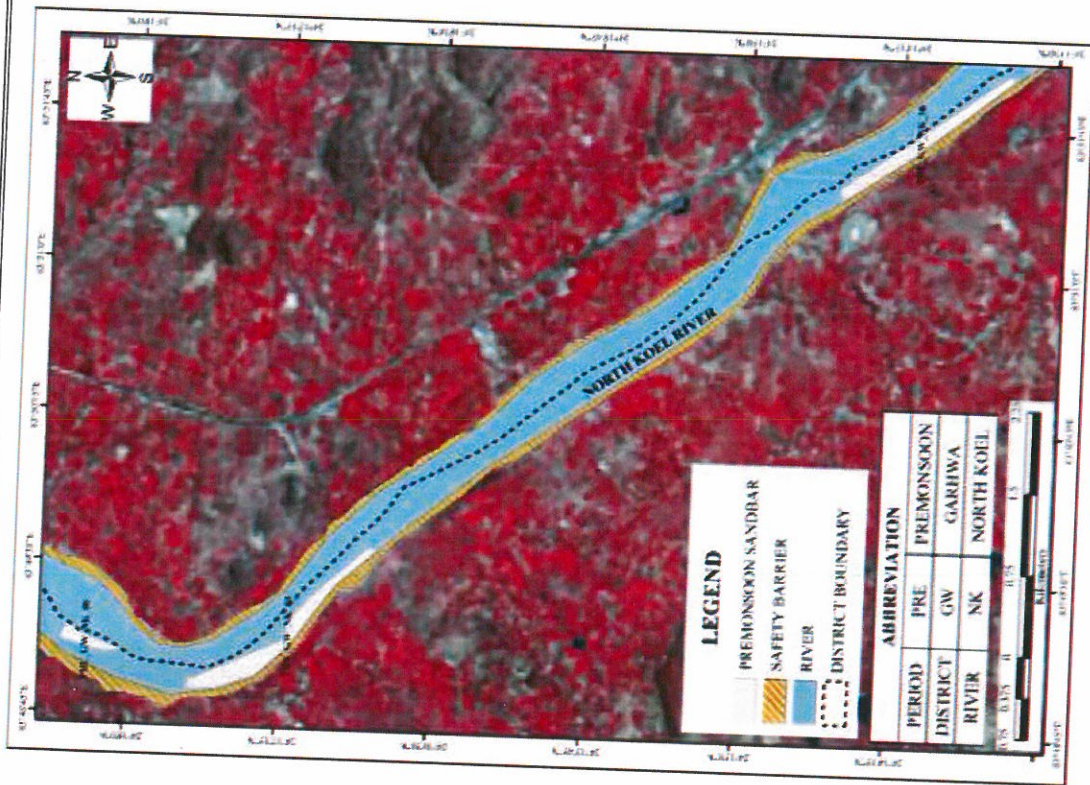
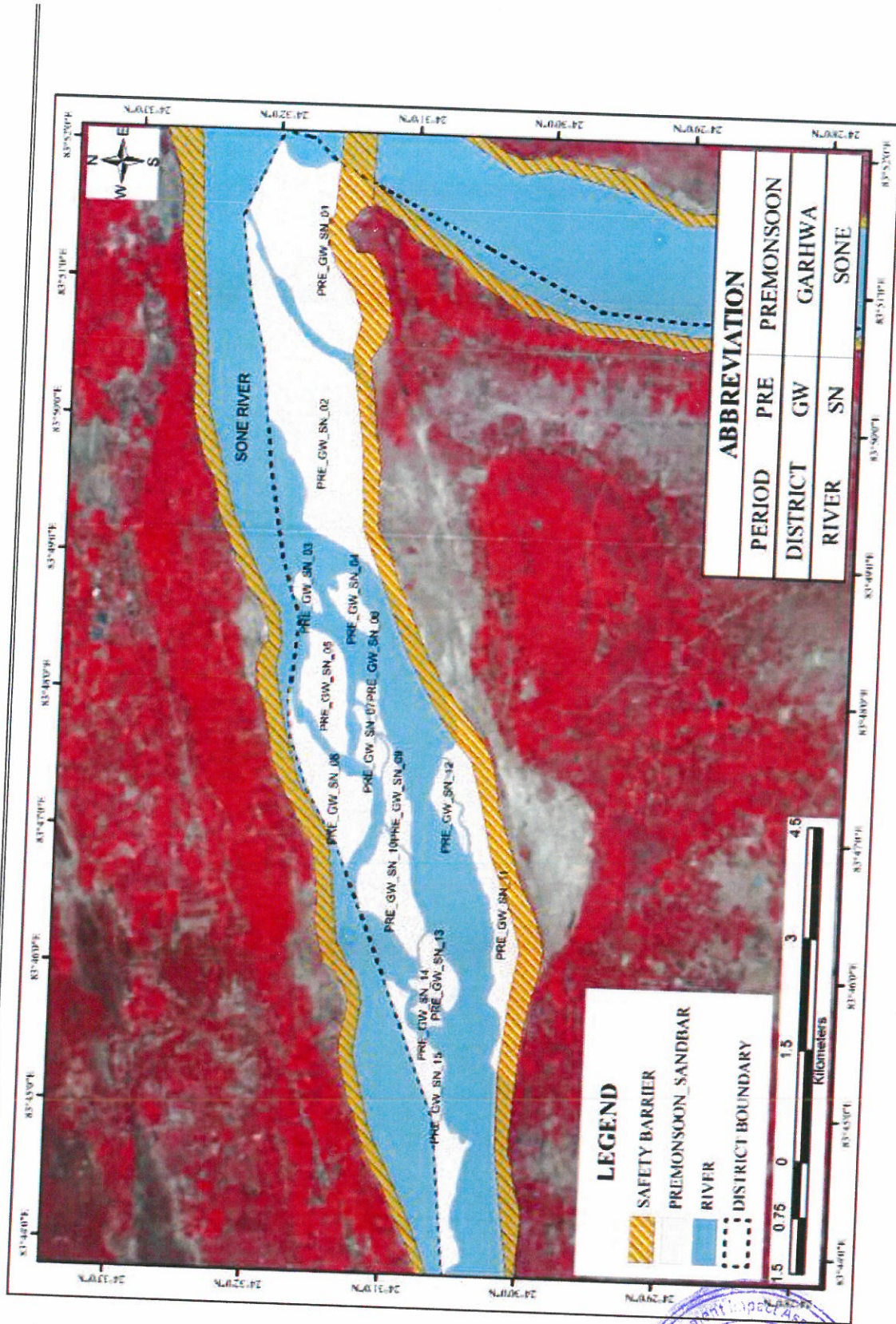


Plate No. A3: Plate showing sandbars in pre-monsoon



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A



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

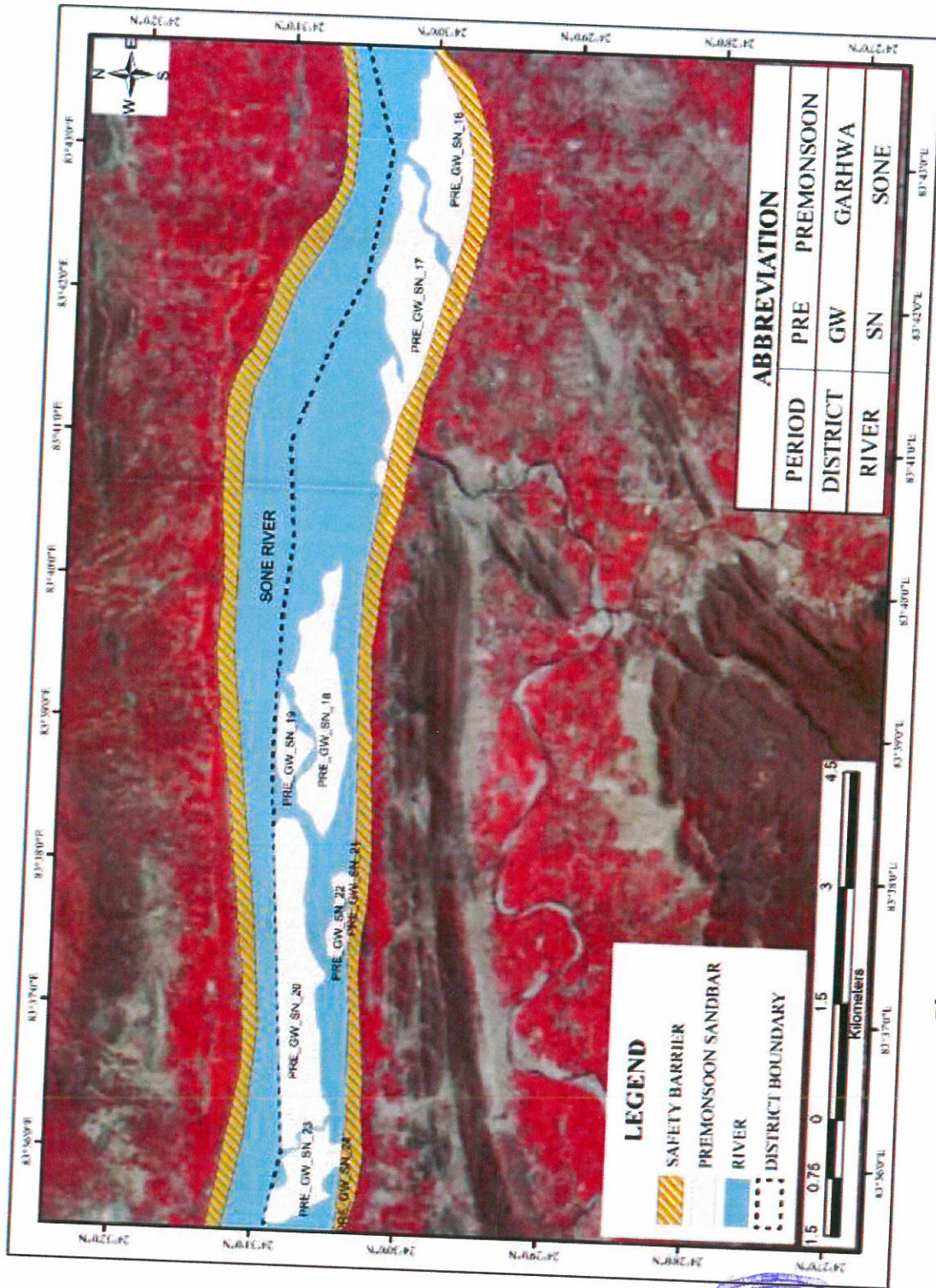


Plate No. A5: Plate showing sandbars in pre-monsoon

(Handwritten signature and initials)



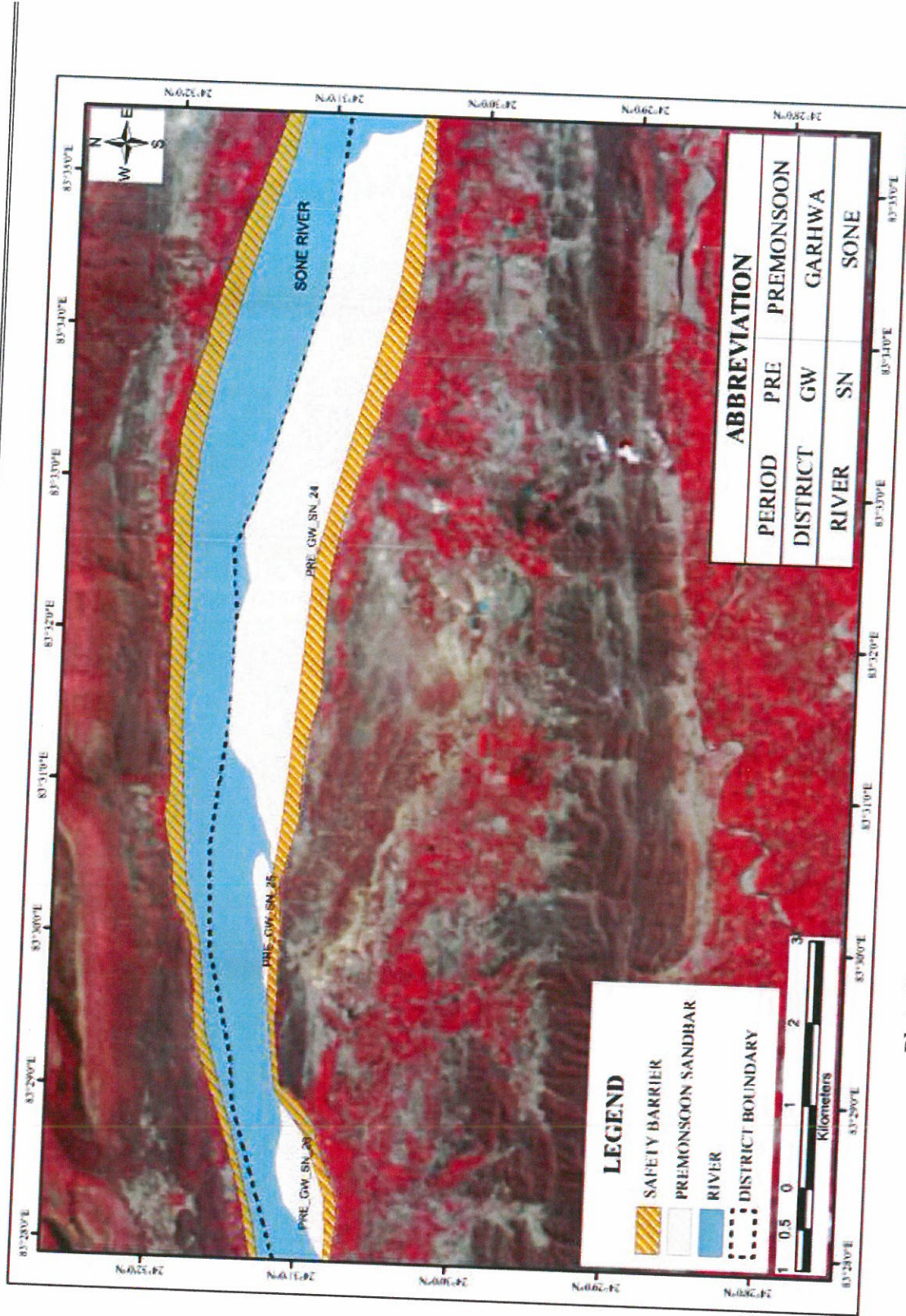
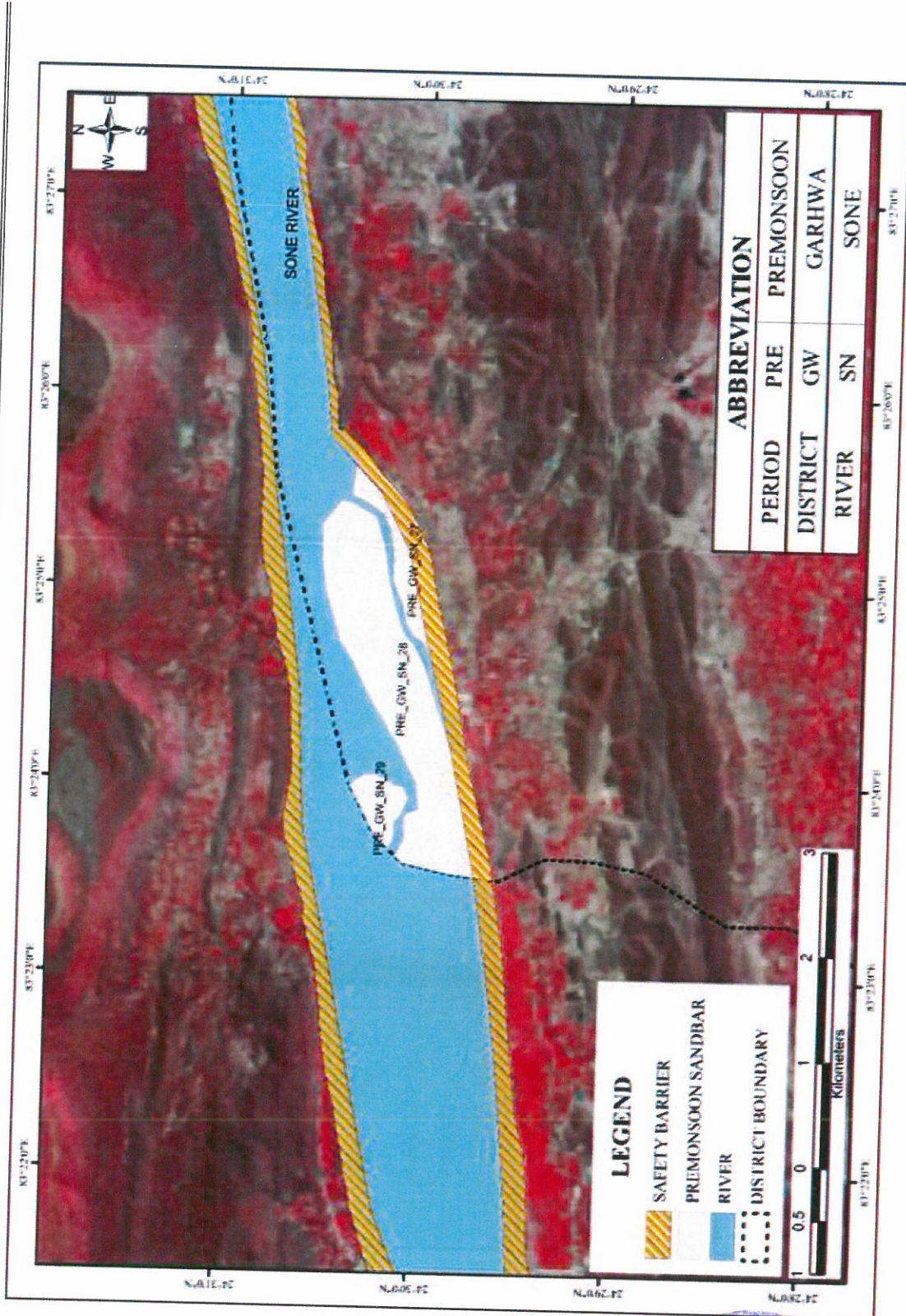


Plate No. A6: Plate showing sandbars in pre-monsoon

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[Handwritten mark]

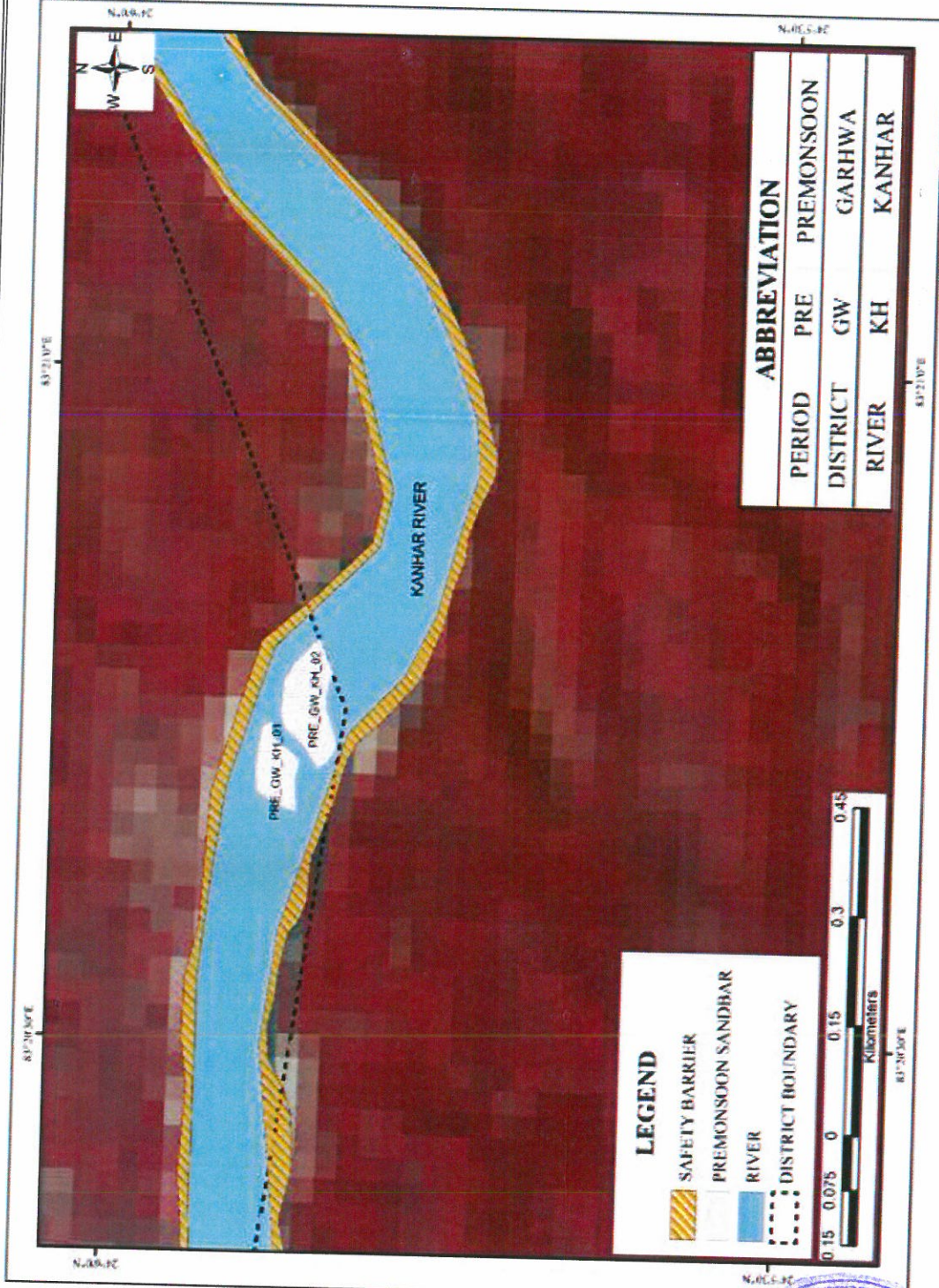




[Handwritten signature]
A



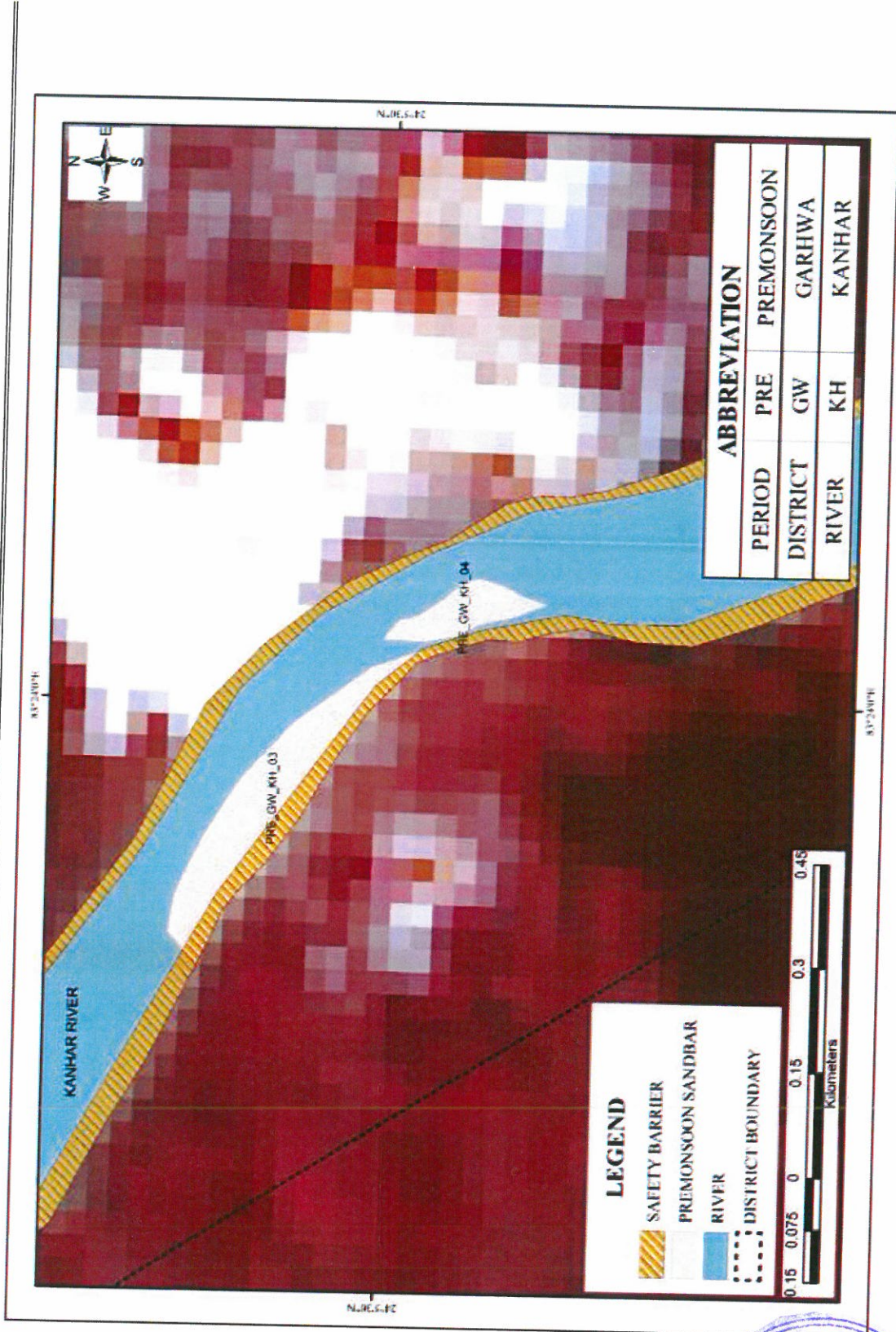
Plate No. A7: Plate showing sandbars in pre-monsoon



[Handwritten signature] A



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



(Handwritten signature and initials)



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

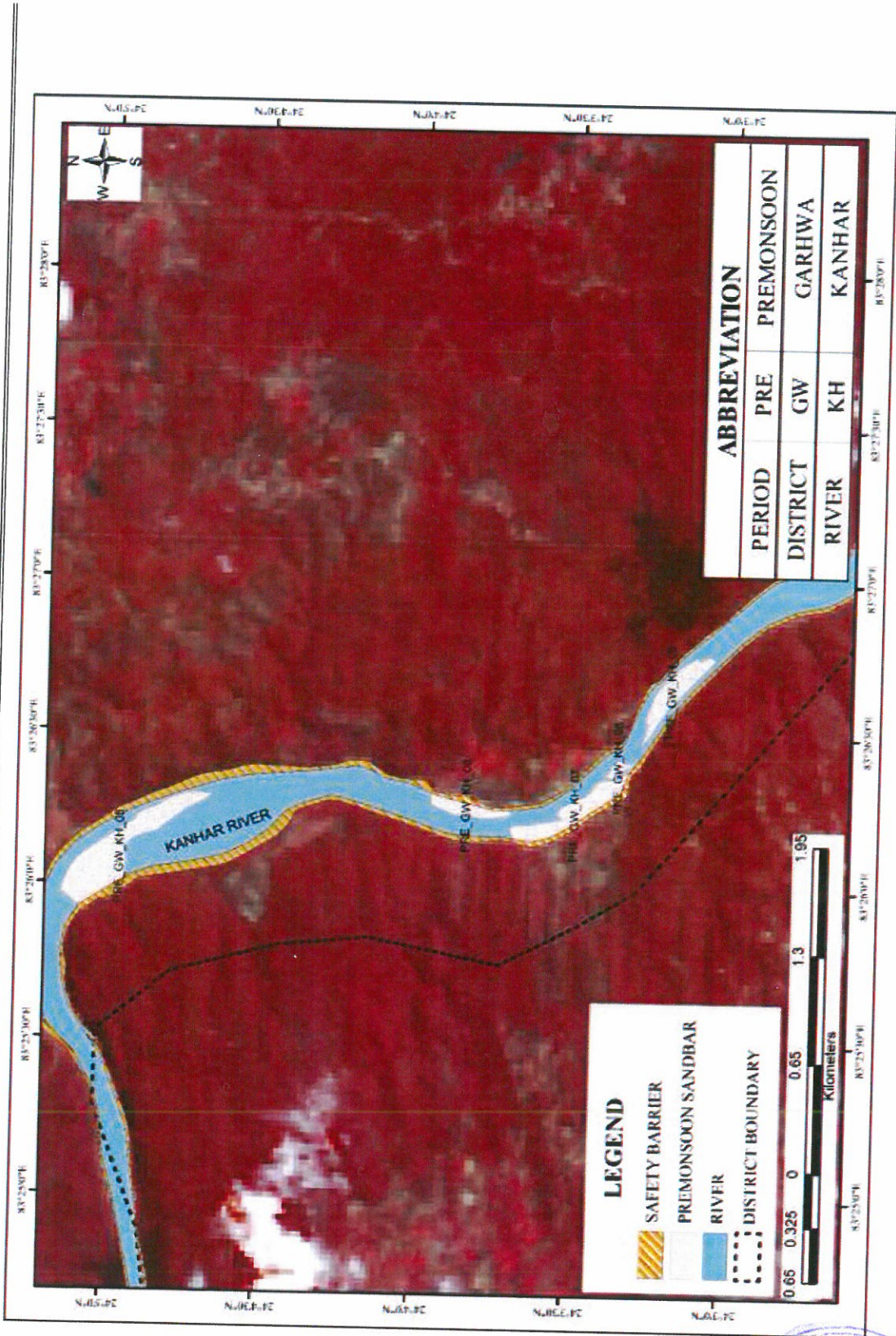


Plate No. A10: Plate showing sandbars in pre-monsoon

(Handwritten signatures)



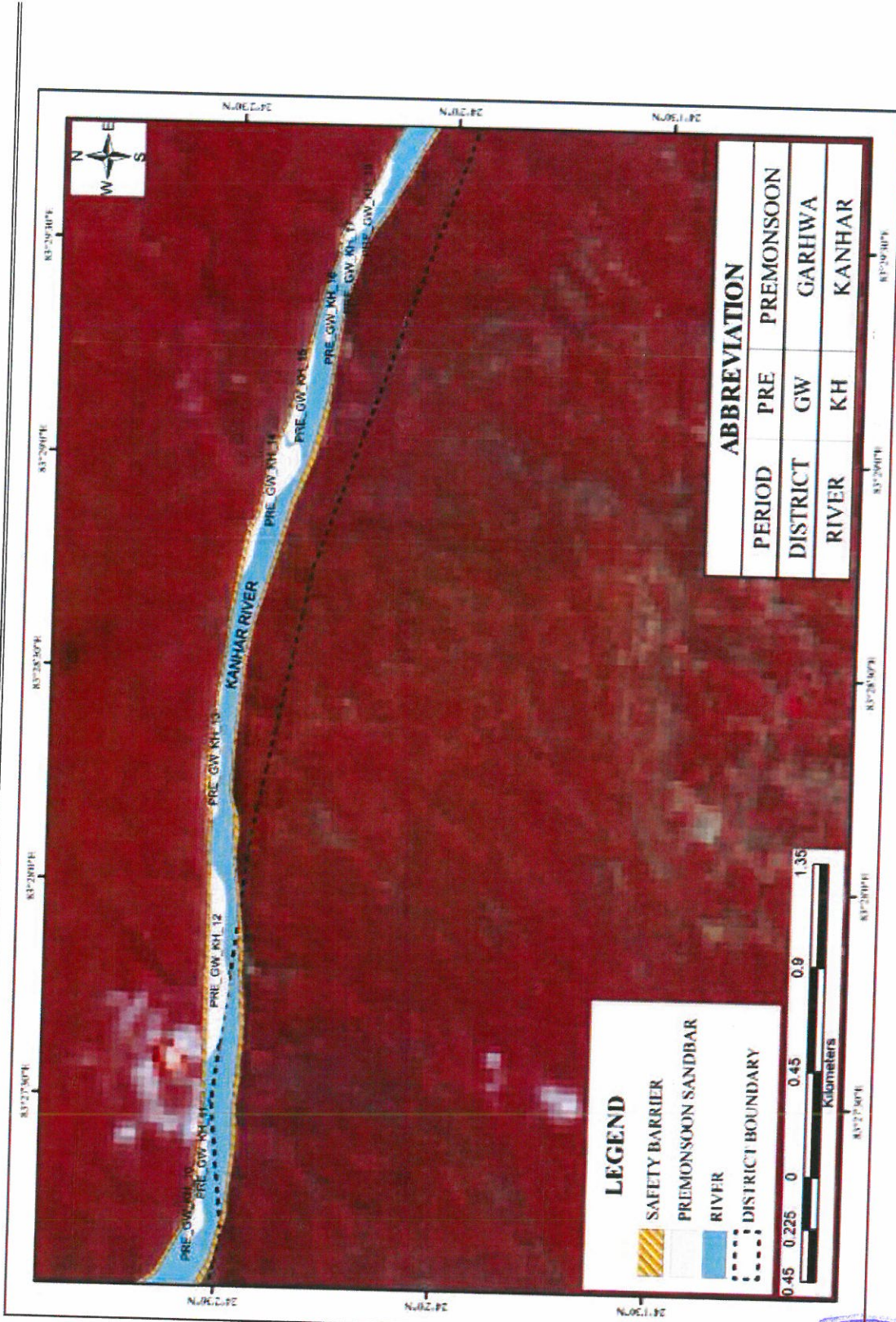


Plate No. A11: Plate showing sandbars in pre-monsoon

(Handwritten signature and initials)



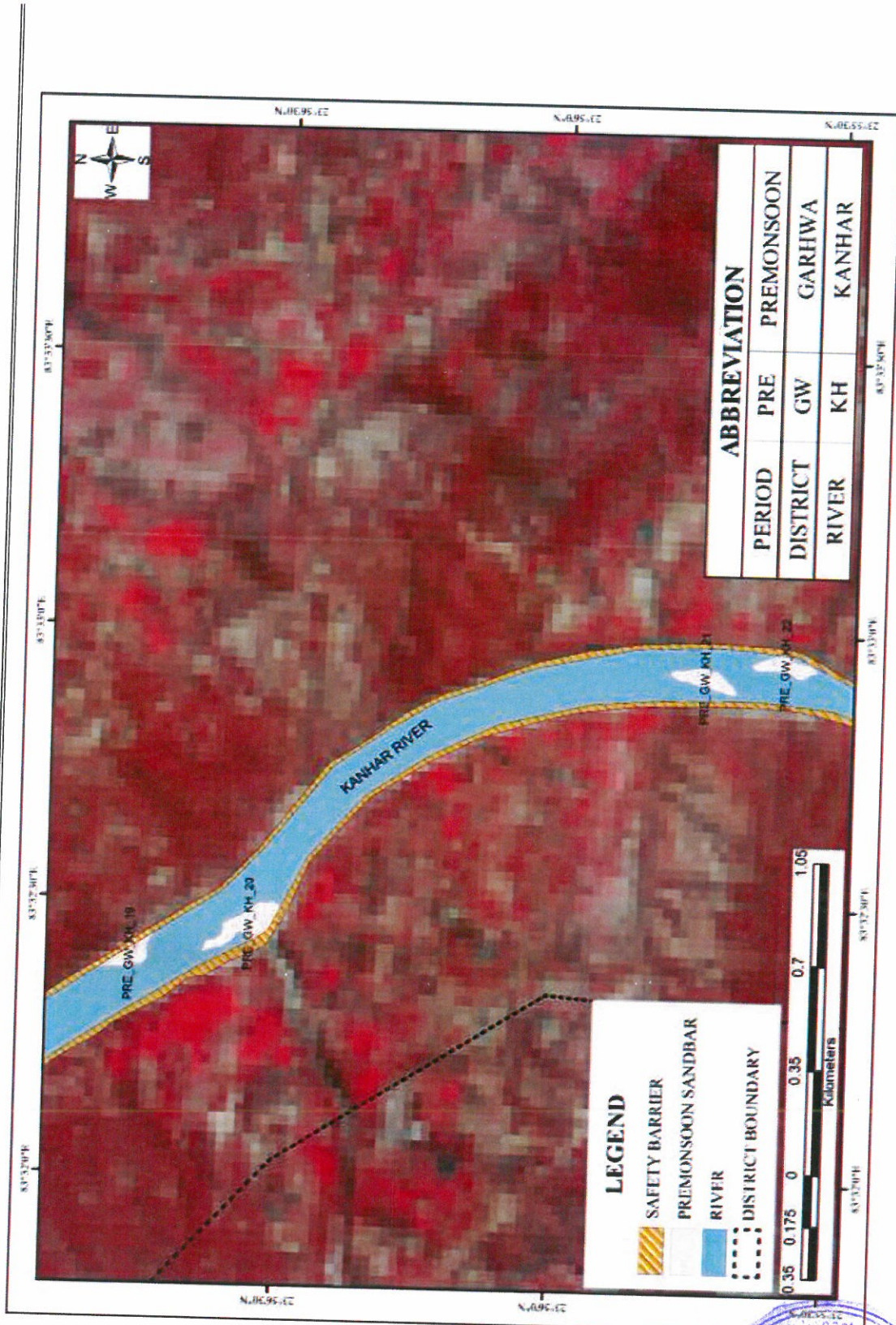


Plate No. A12: Plate showing sandbars in pre-monsoon

[Handwritten signature] A



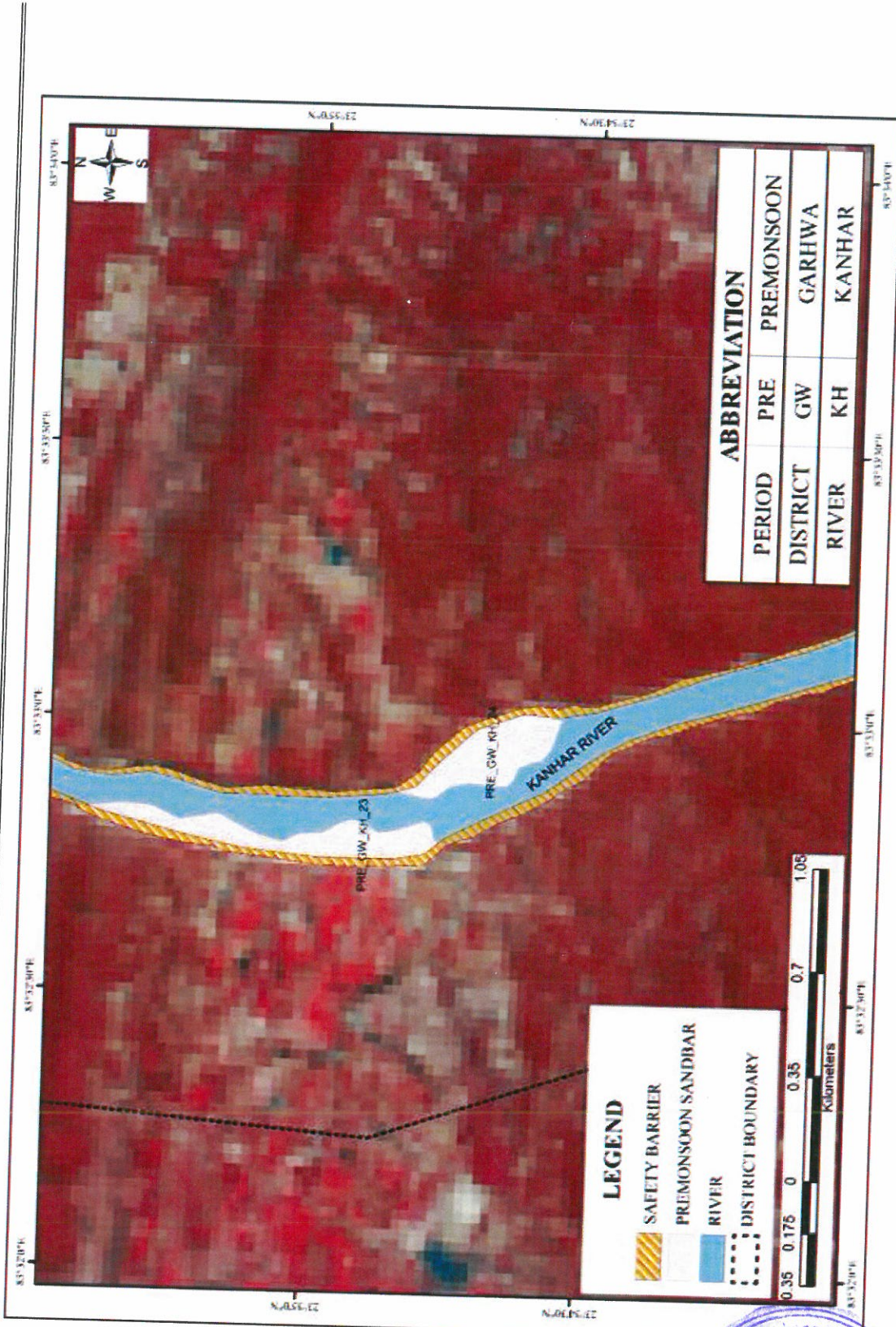


Plate No. A13: Plate showing sandbars in pre-monsoon

(Handwritten signature and initials)



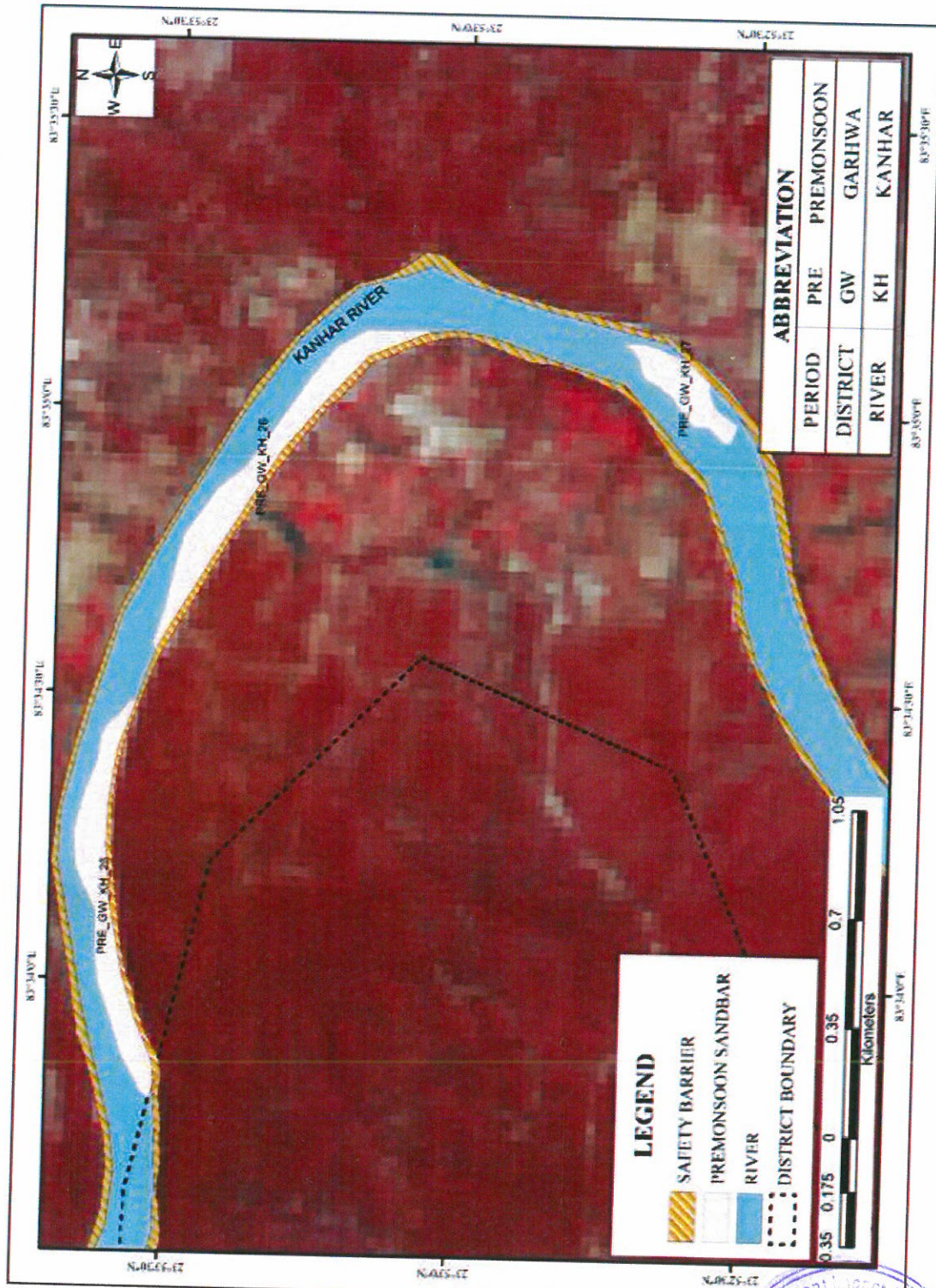


Plate No. A14: Plate showing sandbars in pre-monsoon

(Handwritten signature and initials)



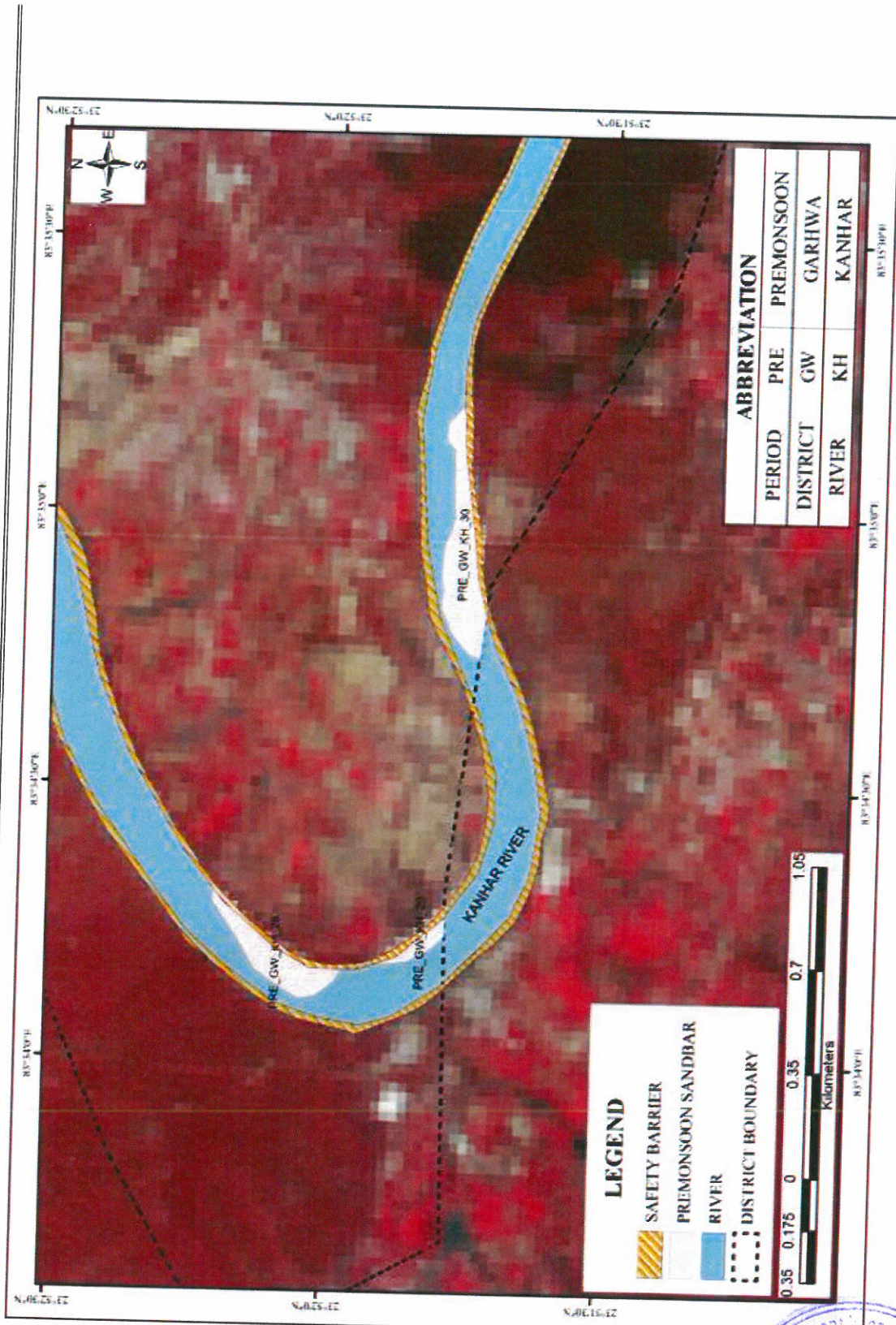


Plate No. A15: Plate showing sandbars in pre-monsoon

[Handwritten signature]

[Handwritten mark]



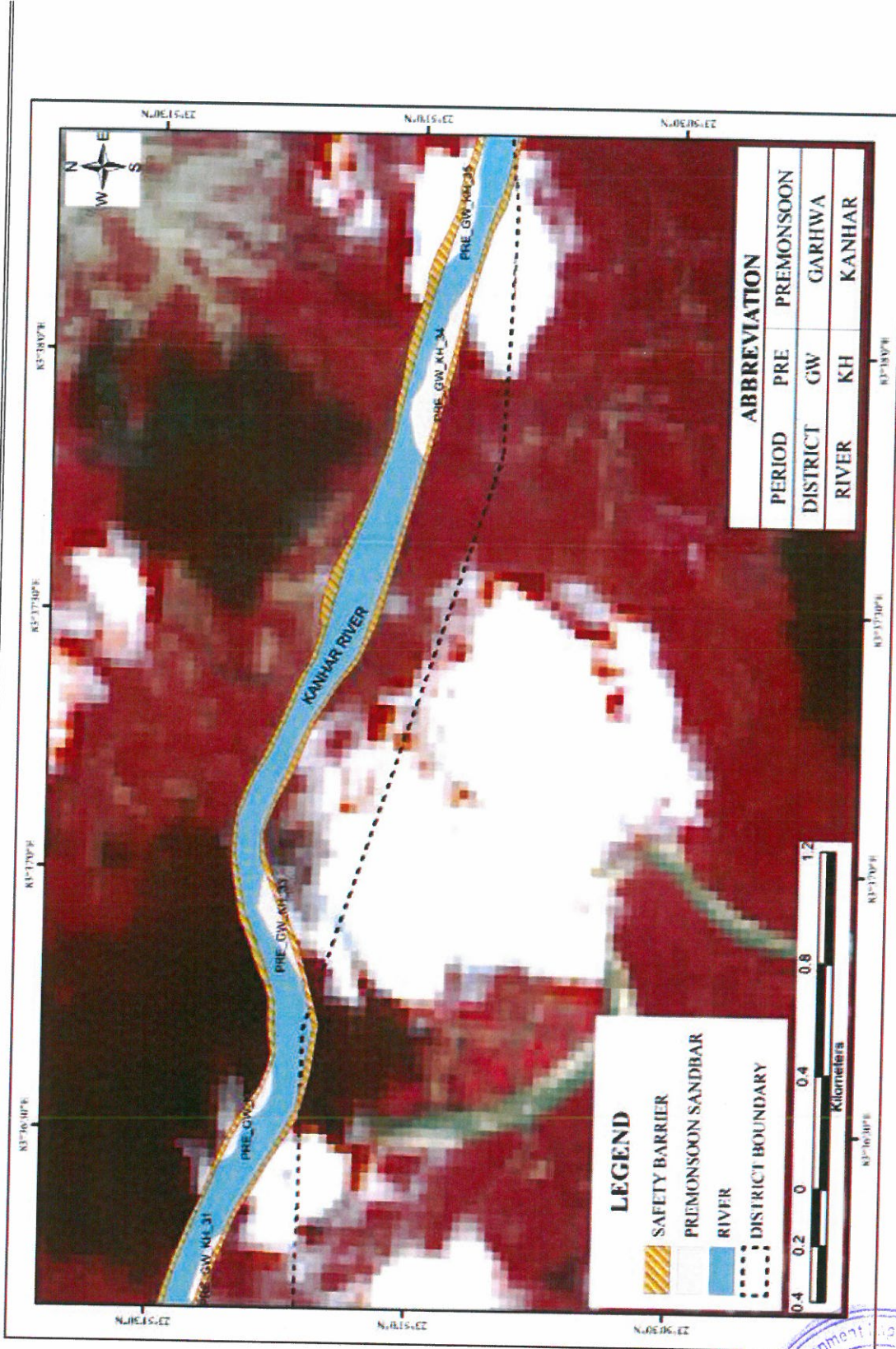
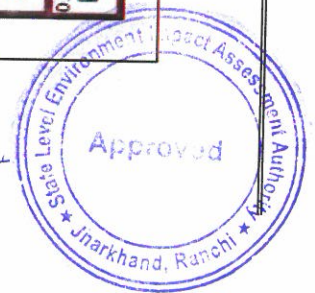


Plate No. A16: Plate showing sandbars in pre-monsoon

(Handwritten signatures)



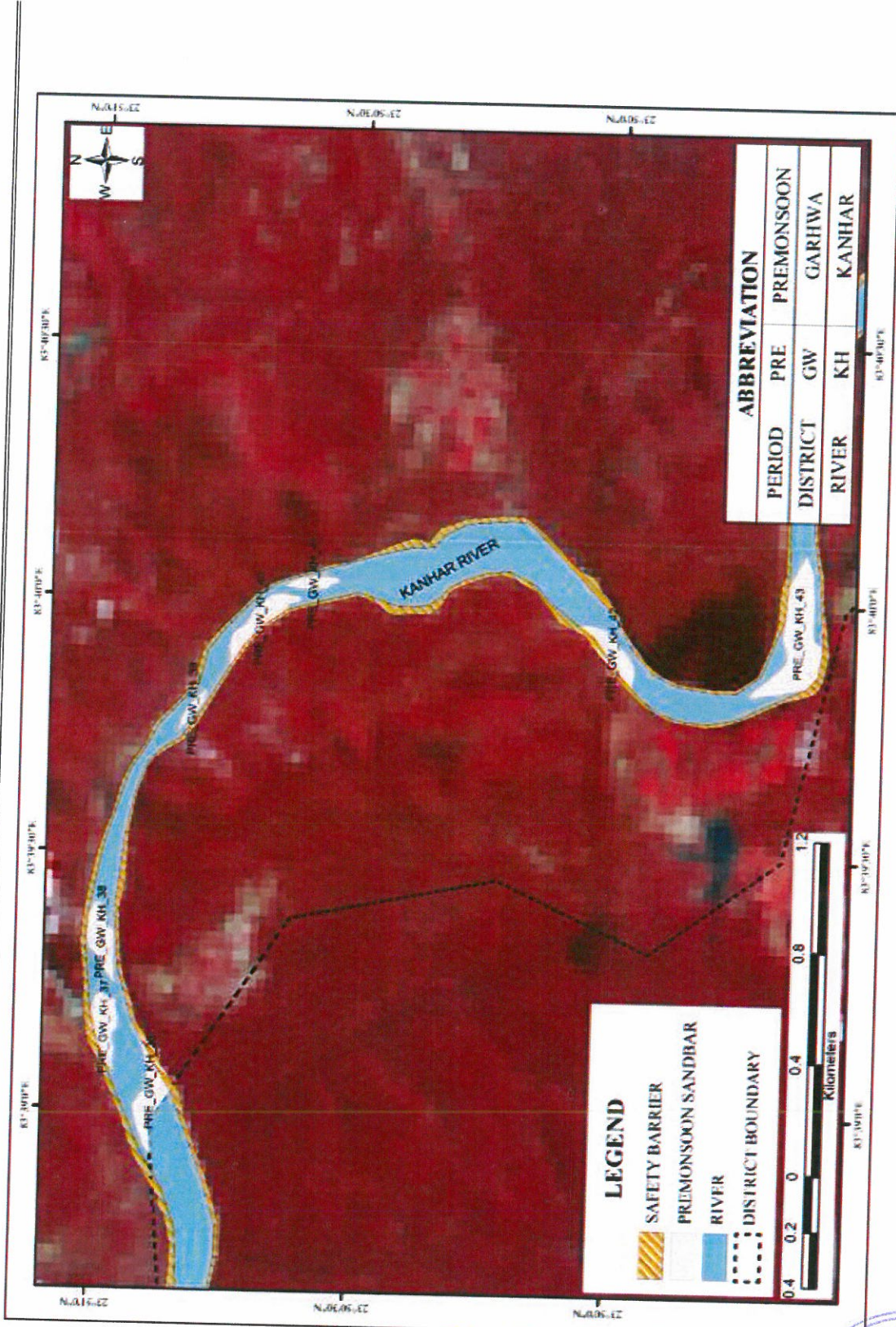
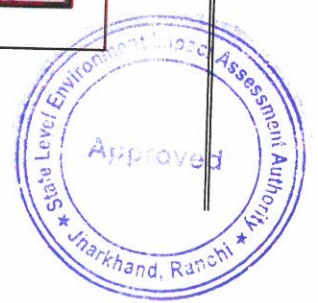


Plate No. A17: Plate showing sandbars in pre-monsoon

(Handwritten signature) A



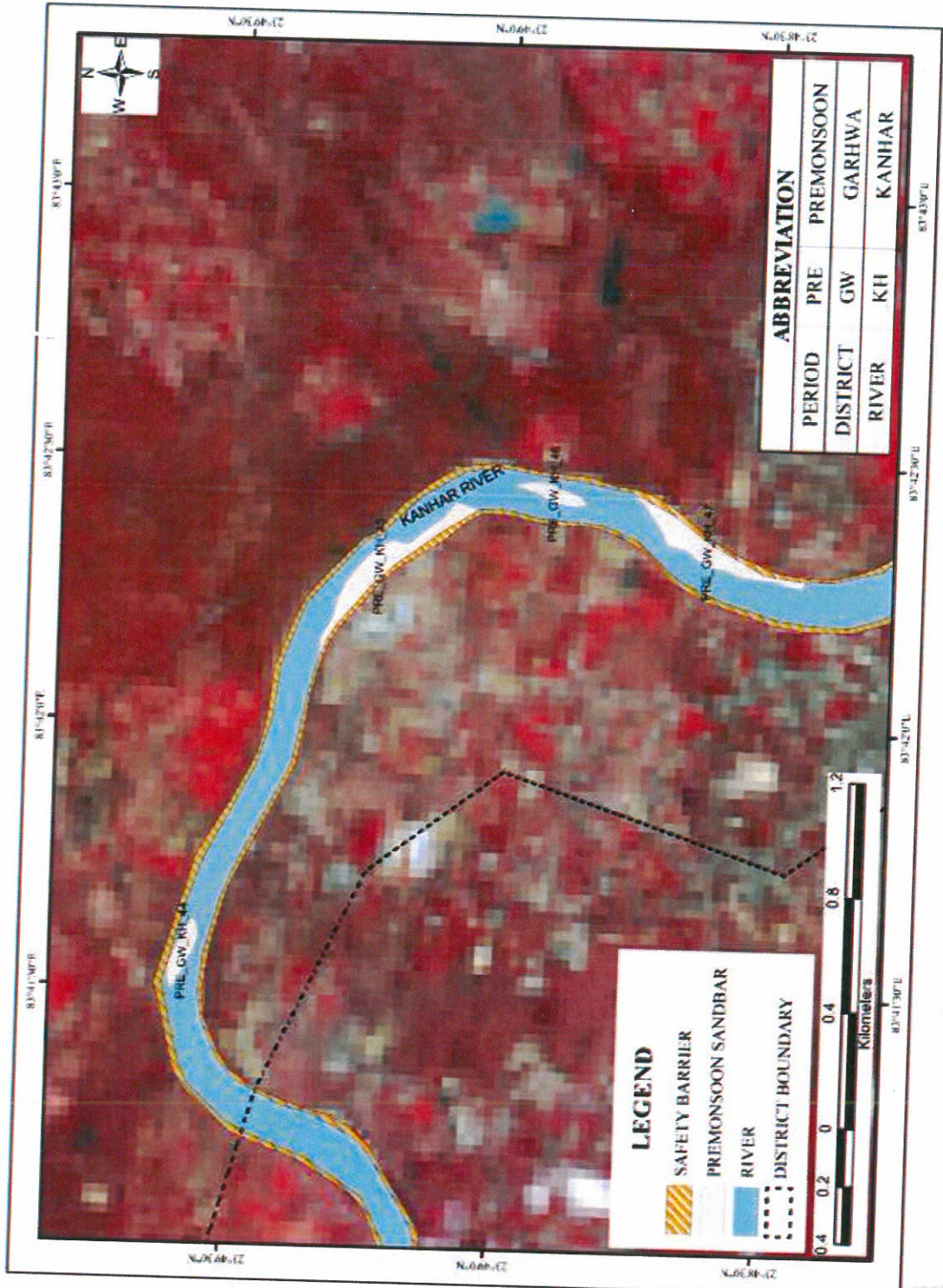


Plate No. A18: Plate showing sandbars in pre-monsoon

(Handwritten signature and initials)



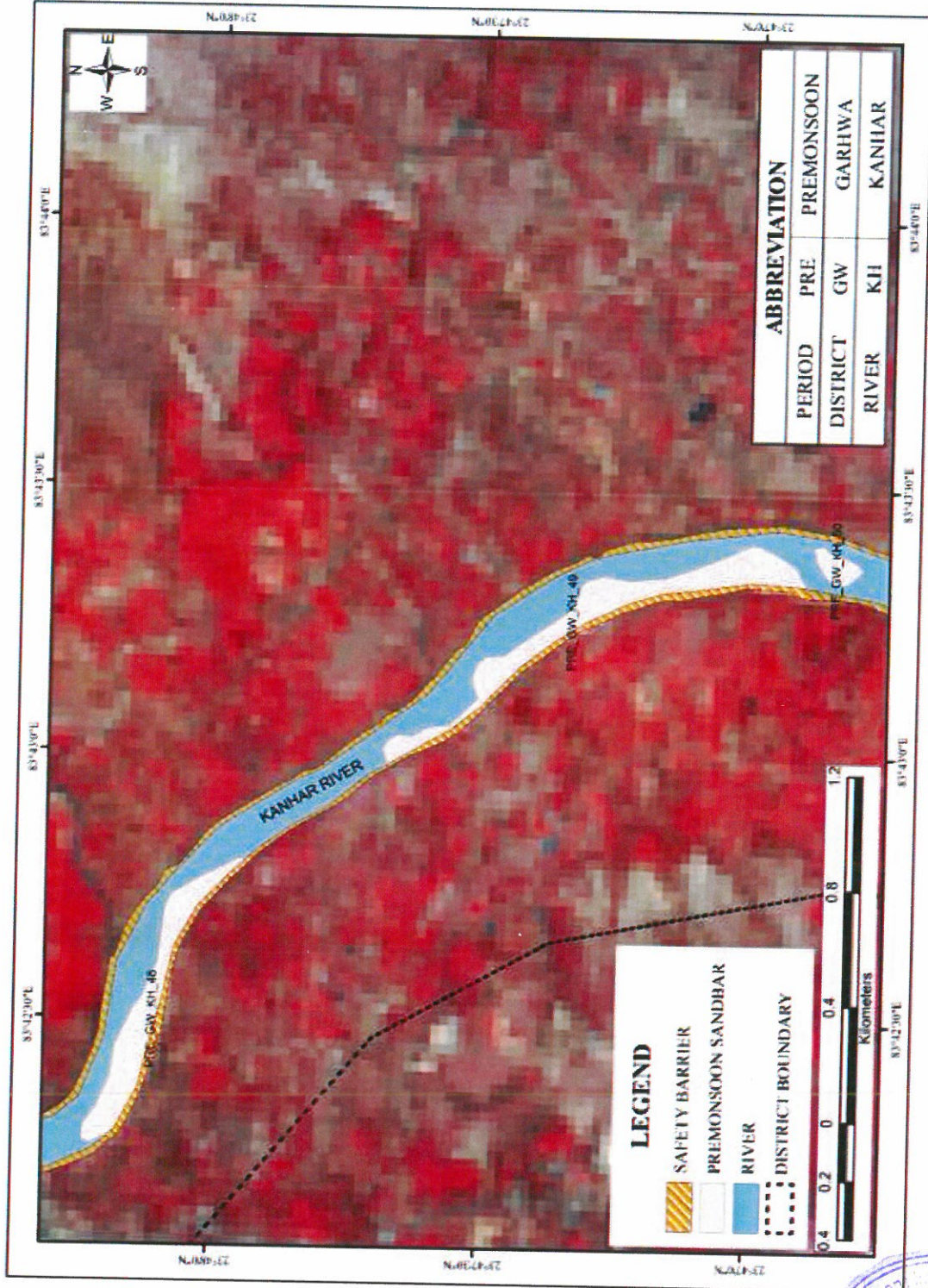


Plate No. A19: Plate showing sandbars in pre-monsoon

[Handwritten signature]



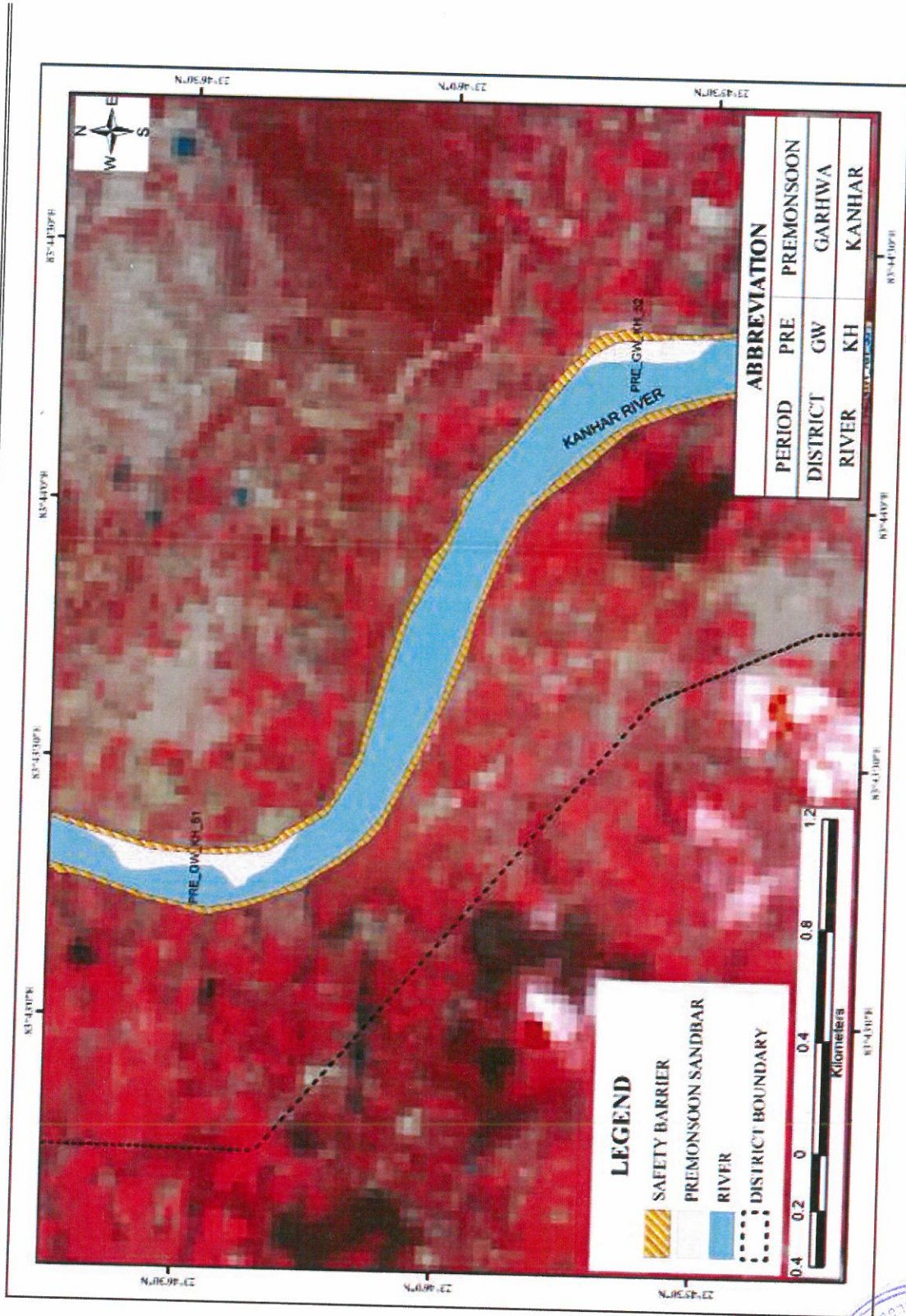


Plate No. A20: Plate showing sandbars in pre-monsoon

(Handwritten signature and initials)



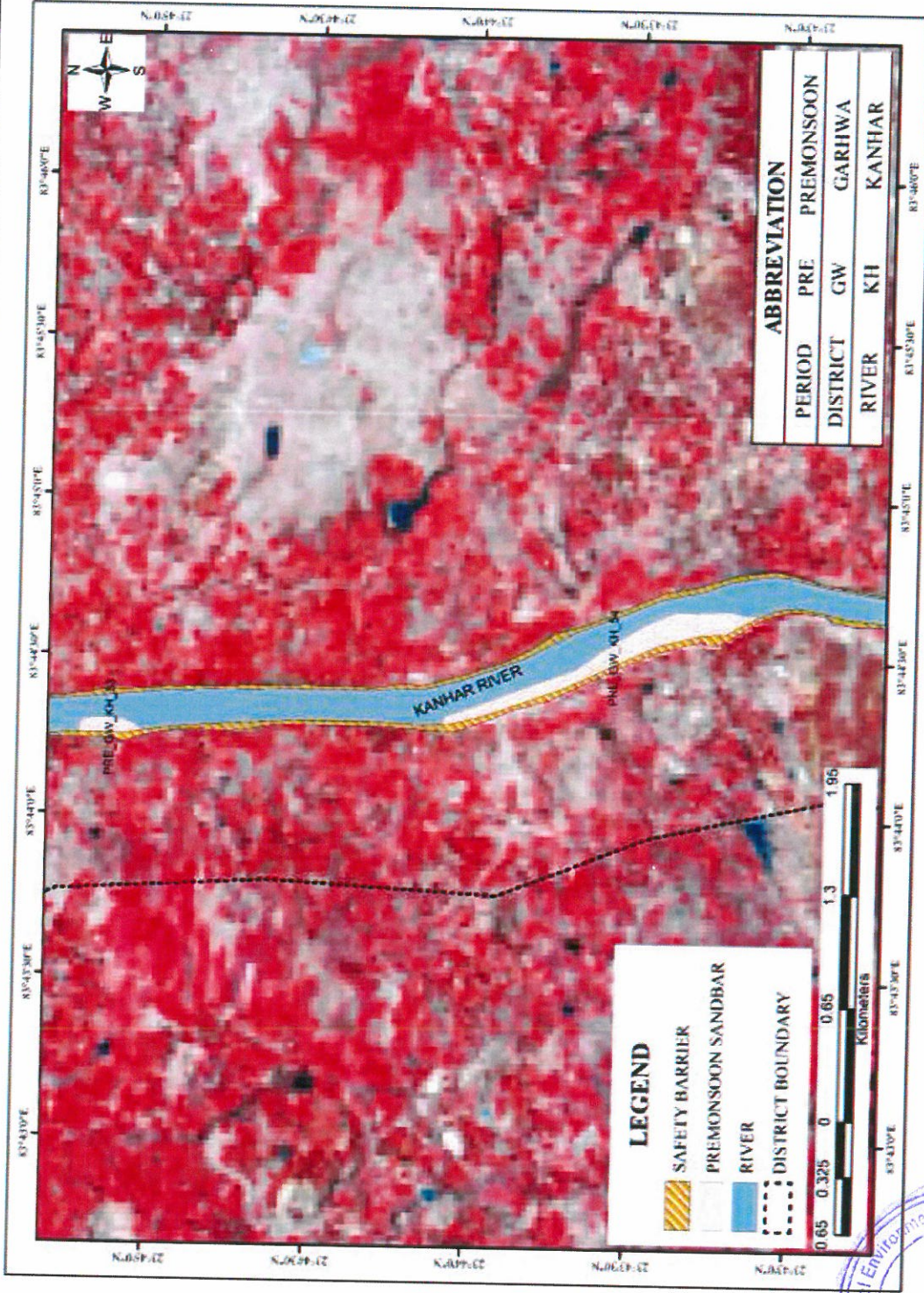


Plate No. A21: Plate showing sandbars in pre-monsoon

(Handwritten signatures)



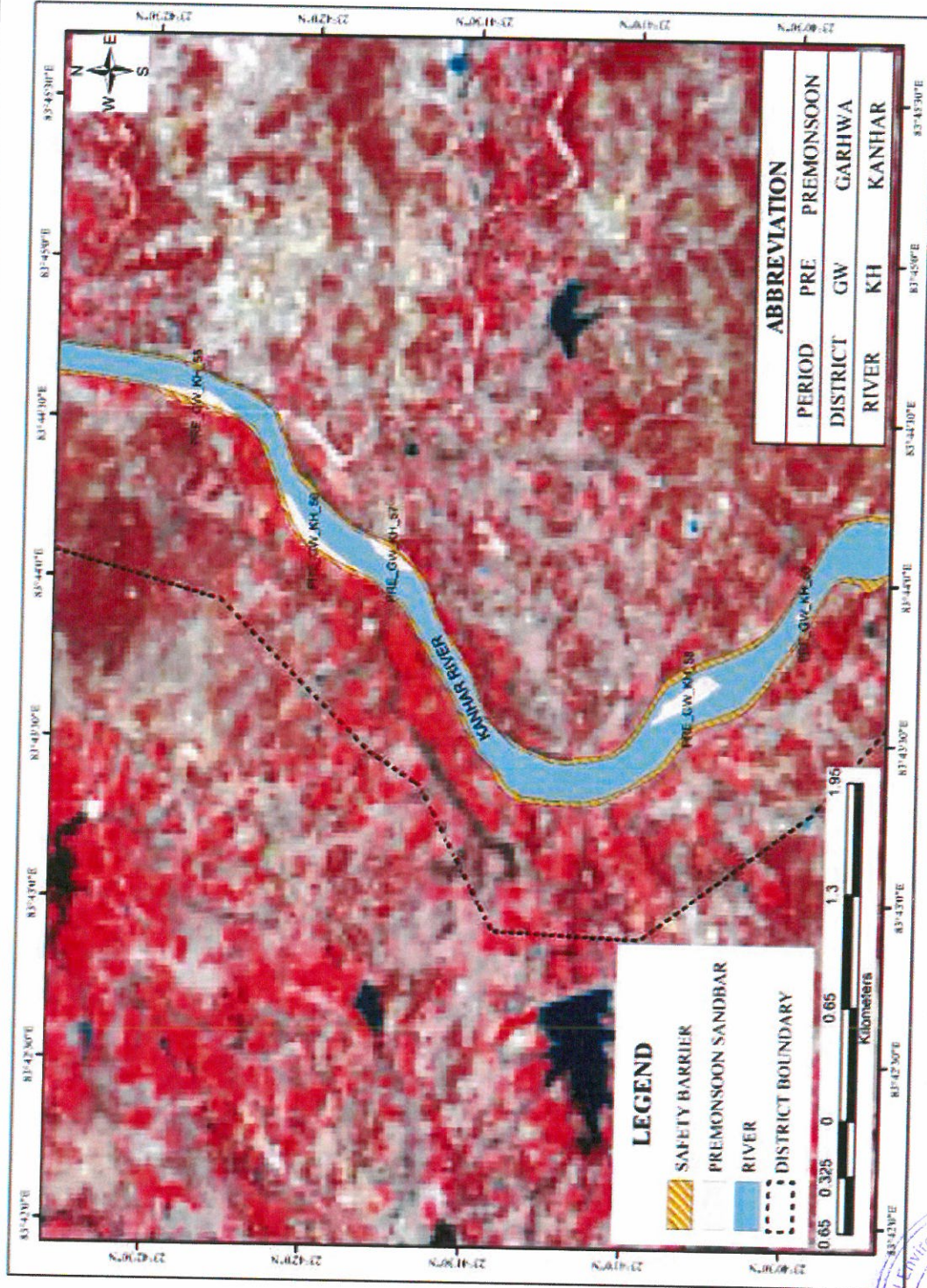


Plate No. A22: Plate showing sandbars in pre-monsoon

(Handwritten signature and initials)



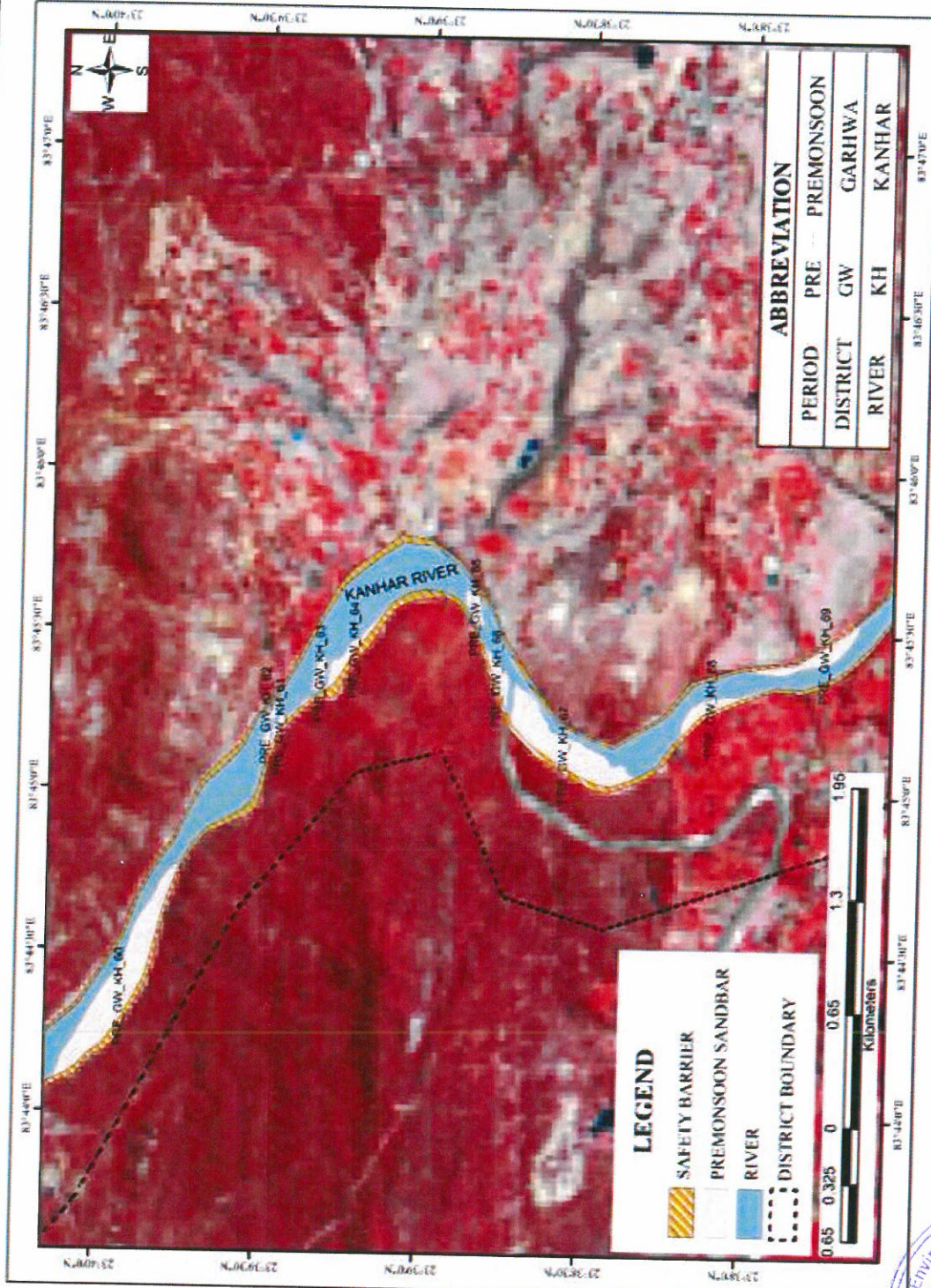
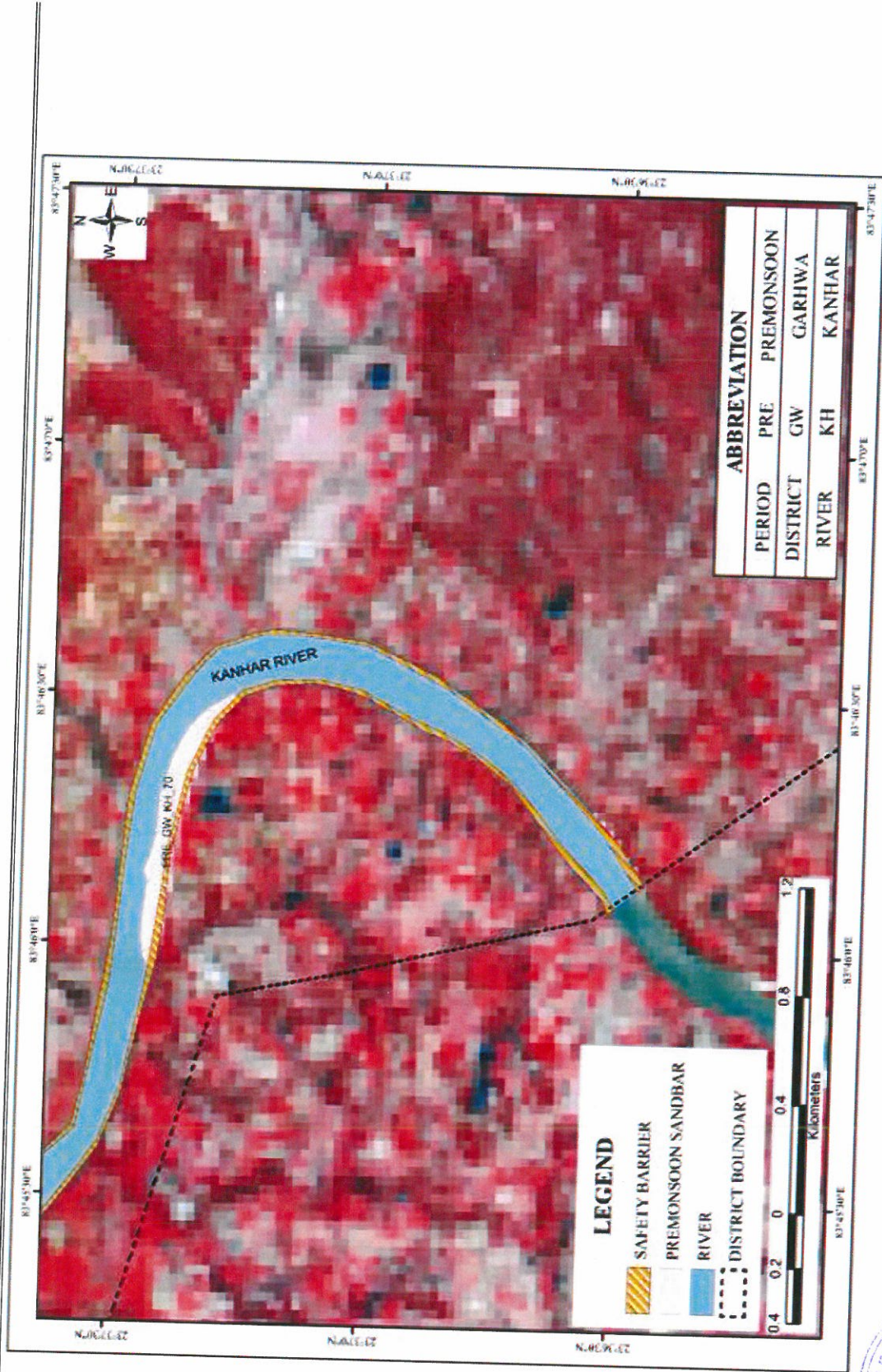


Plate No. A23: Plate showing sandbars in pre-monsoon

(Handwritten signature and initials)





[Handwritten signature]

[Handwritten mark]



Plate No. A24: Plate showing sandbars in pre-monsoon

Plate (B)
**(Plate showing potential Zone in post-
monsoon)**



[Handwritten signature]

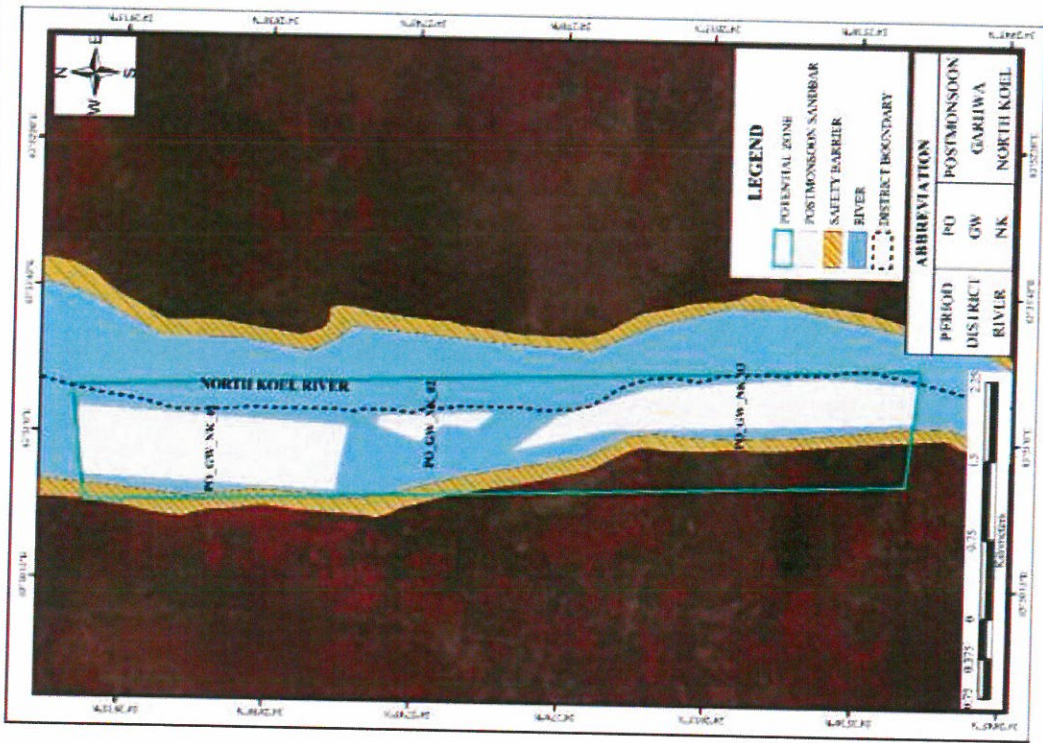


Plate No. B1: Plate showing potential Zone in post-monsoon

(Handwritten signature) A



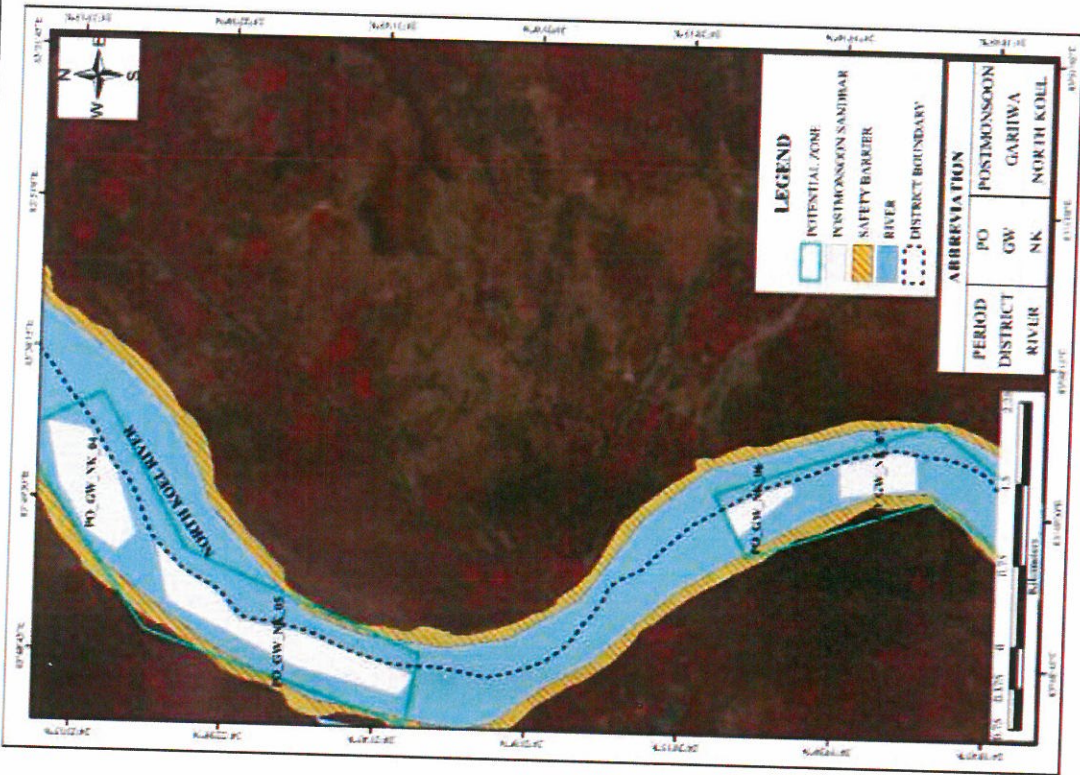


Plate No. B2: Plate showing potential Zone in post-monsoon

[Handwritten signature]



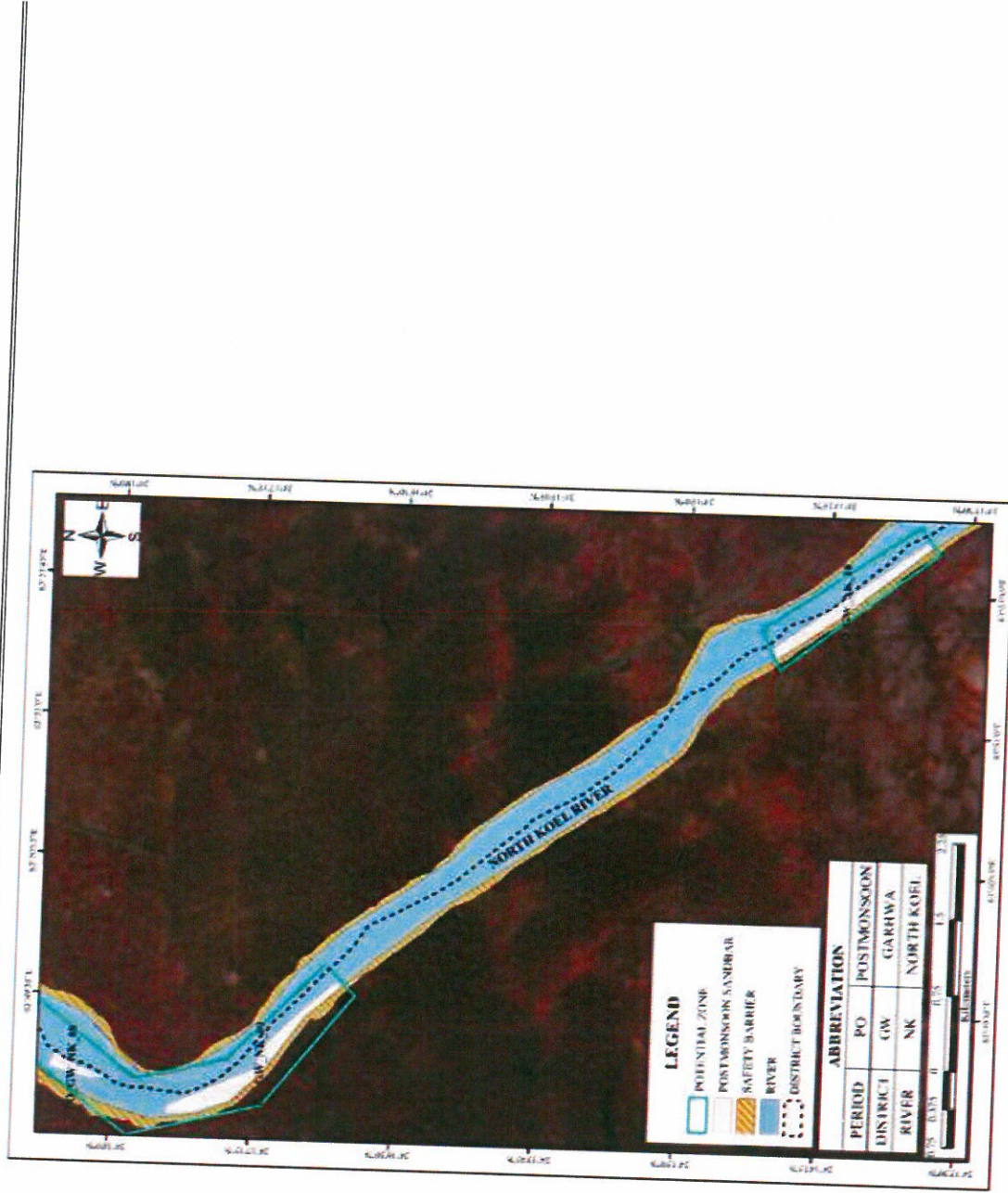


Plate No. B3: Plate showing potential Zone in post-monsoon



(Handwritten signature)

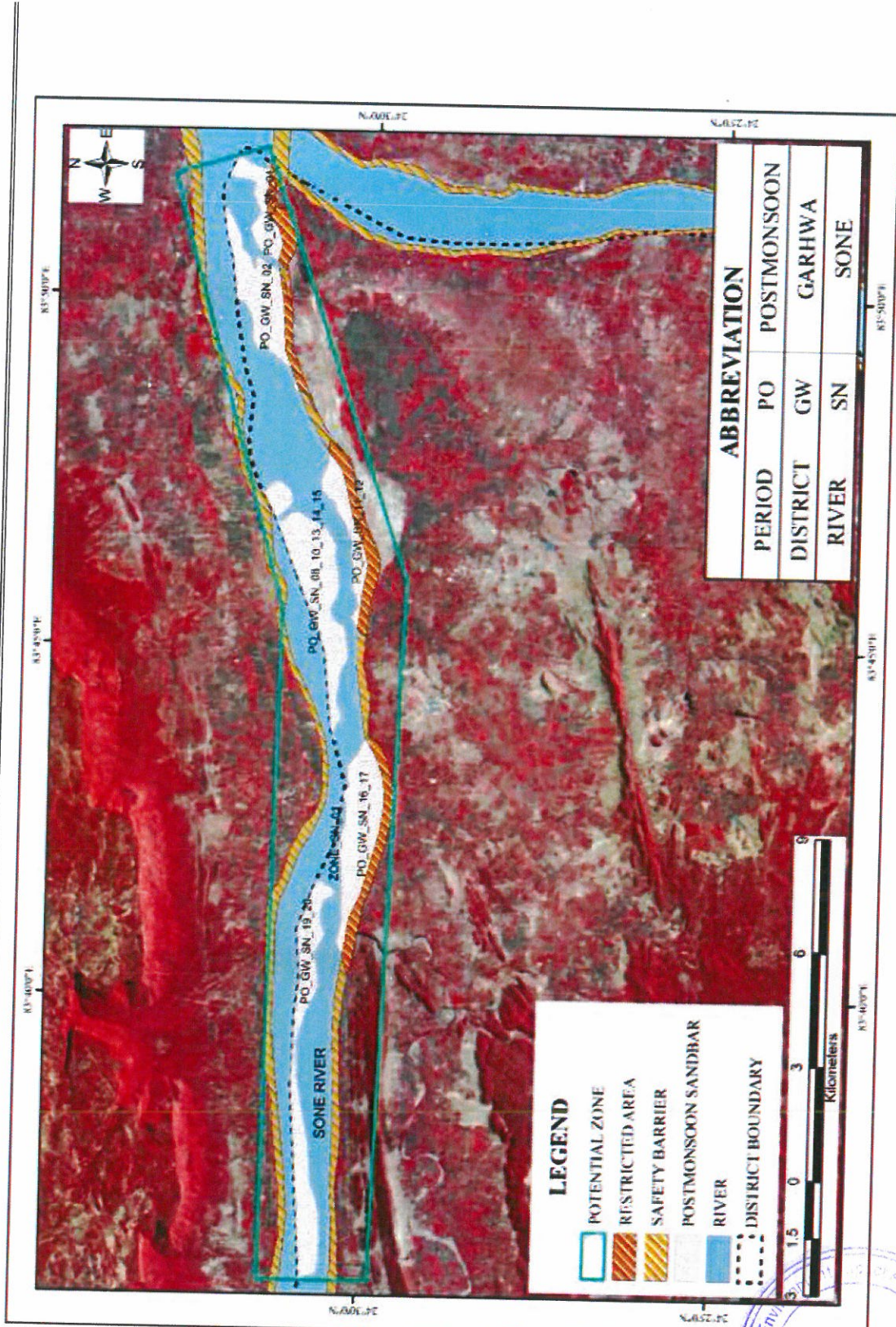
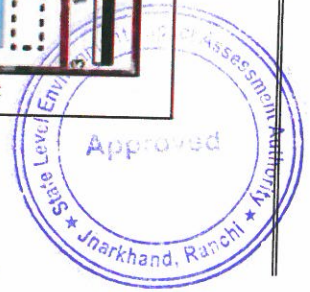


Plate No. B4: Plate showing potential Zone in post-monsoon

(Handwritten signatures)



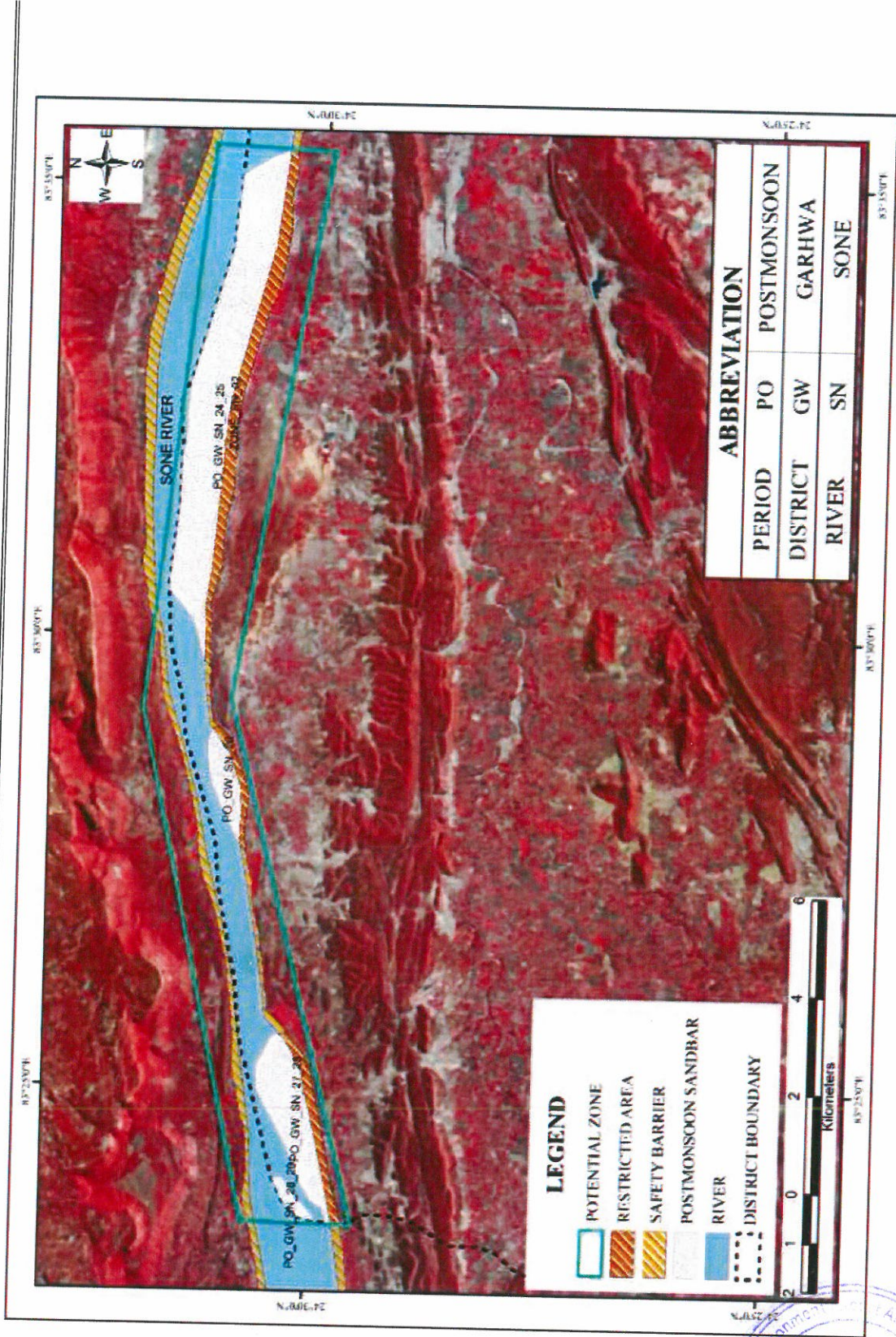


Plate No. B5: Plate showing potential Zone in post-monsoon

(Handwritten signatures)



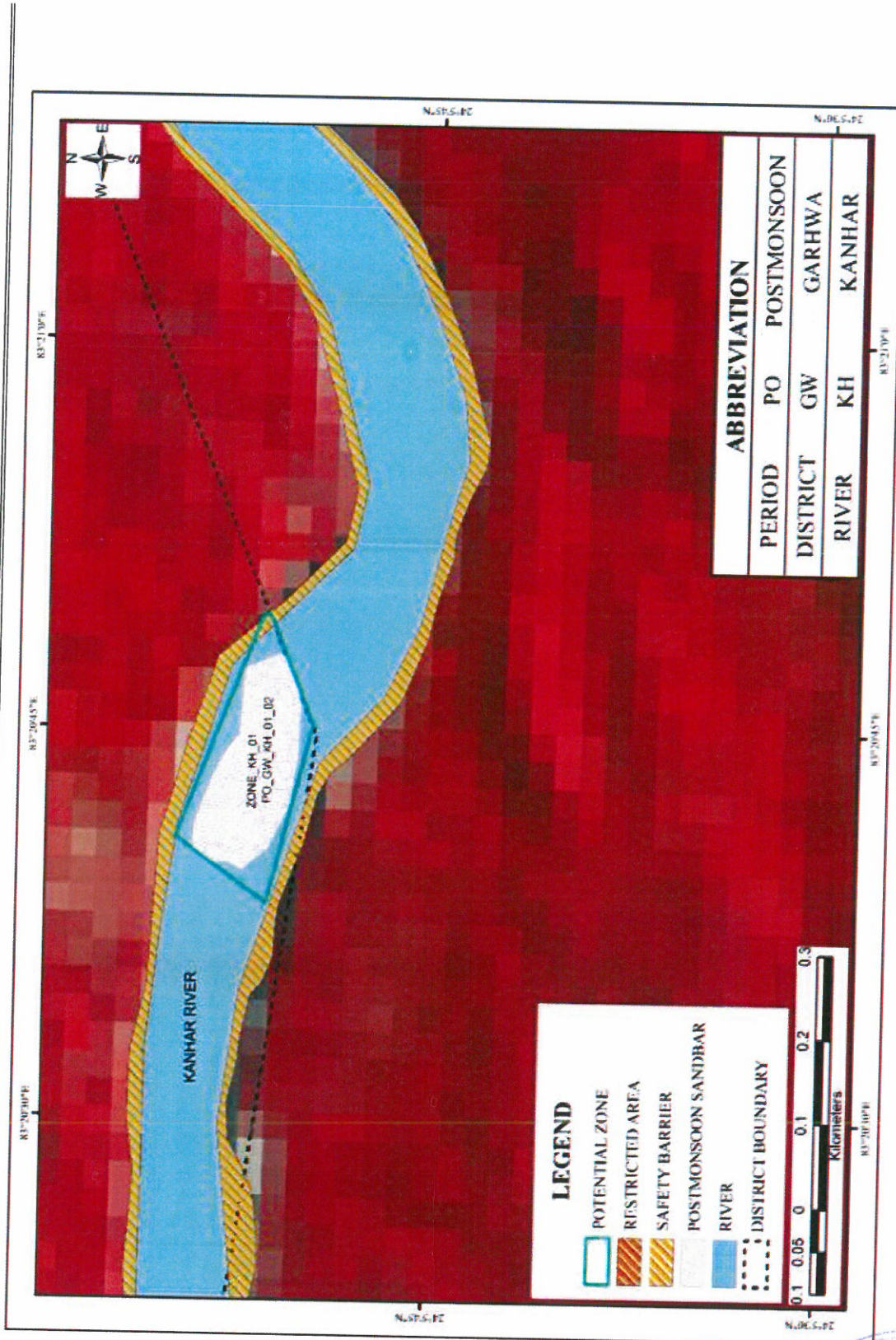


Plate No. B6: Plate showing potential Zone in post-monsoon

(Handwritten signature and initials)



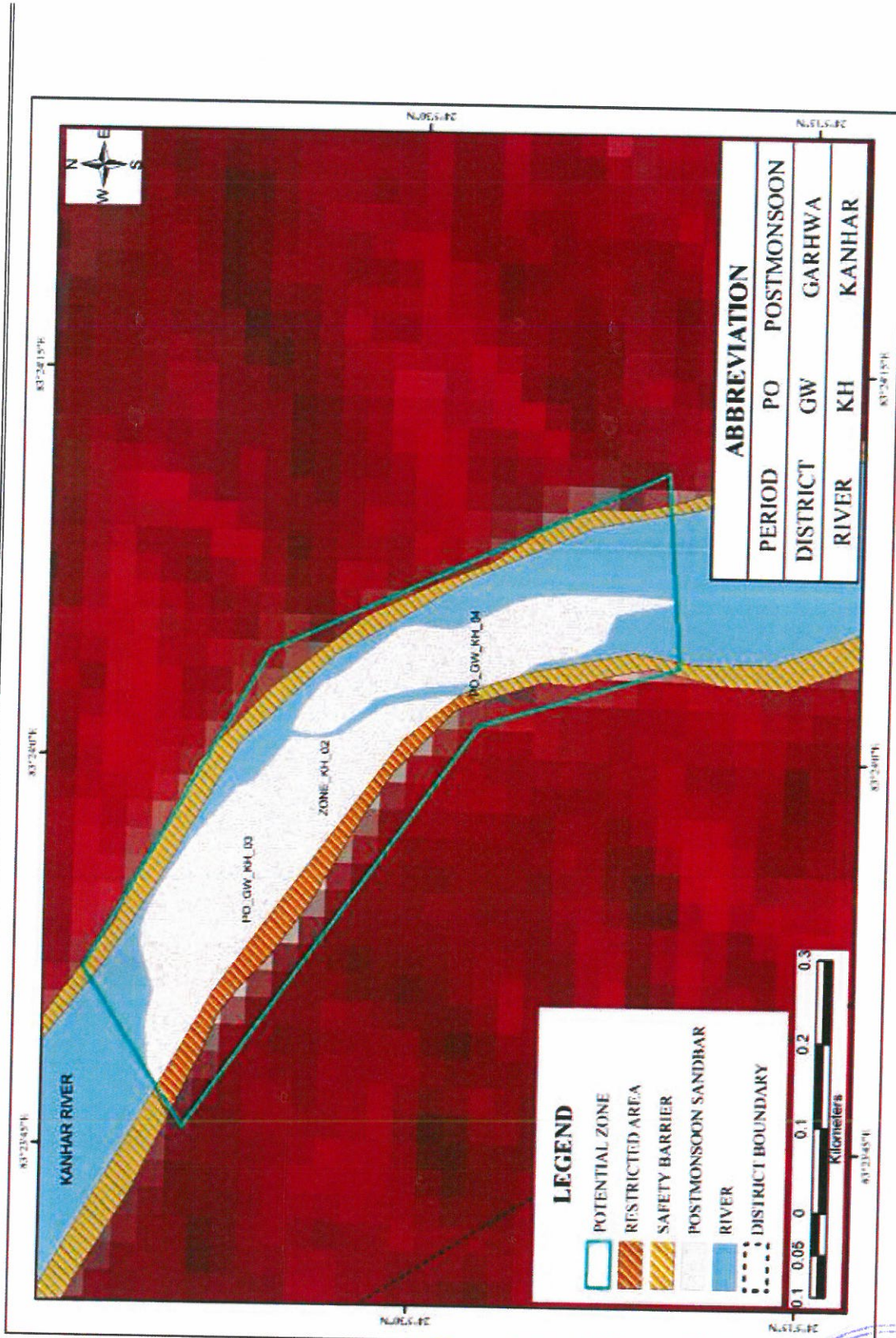
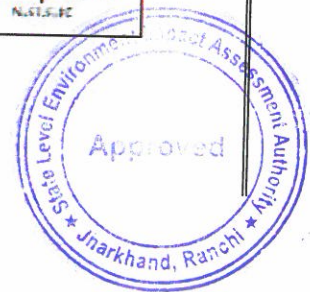


Plate No. B7: Plate showing potential Zone in post-monsoon

(Handwritten signature and initials)



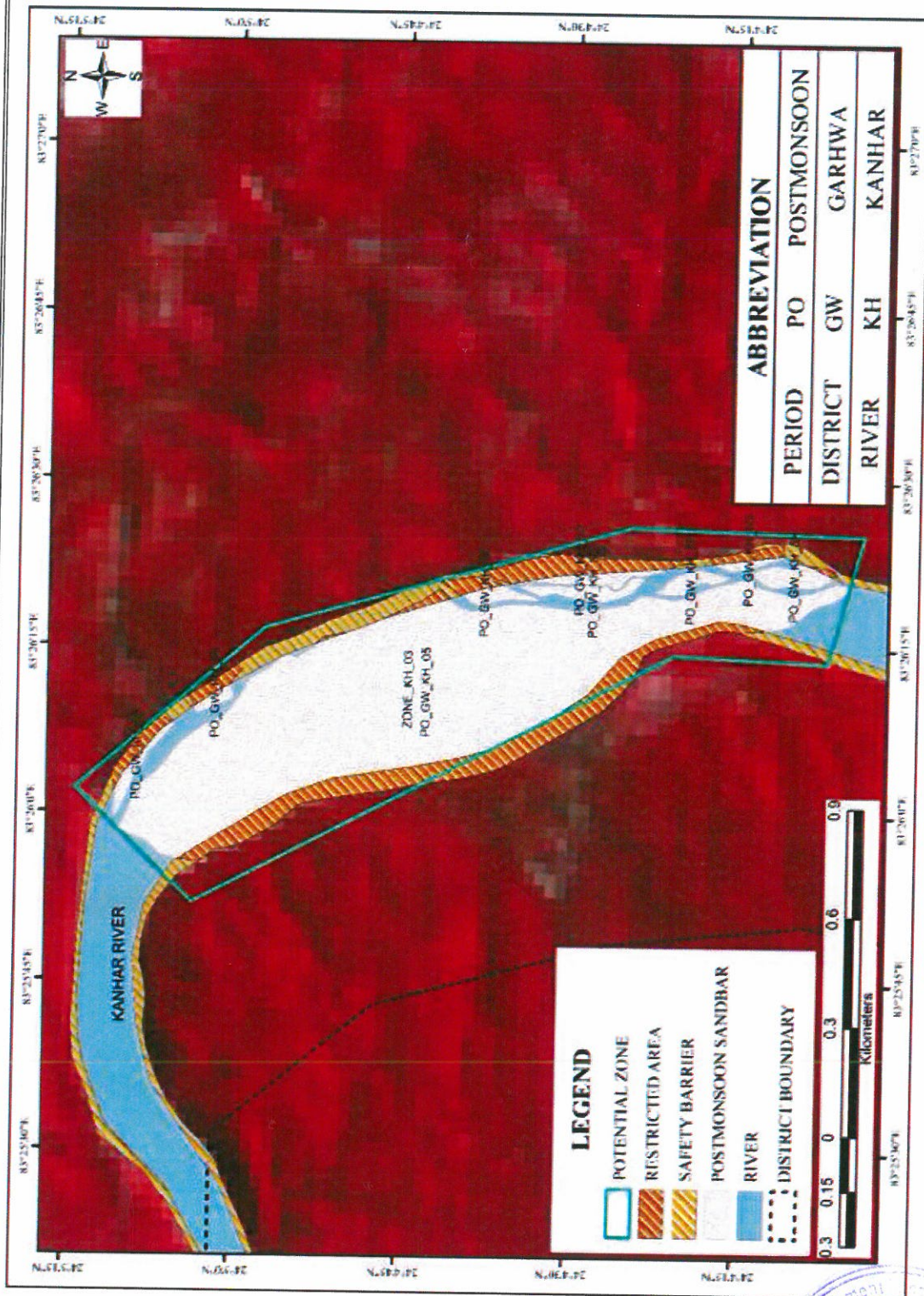


Plate No. B8: Plate showing potential Zone in post-monsoon

(Handwritten signature and initials)



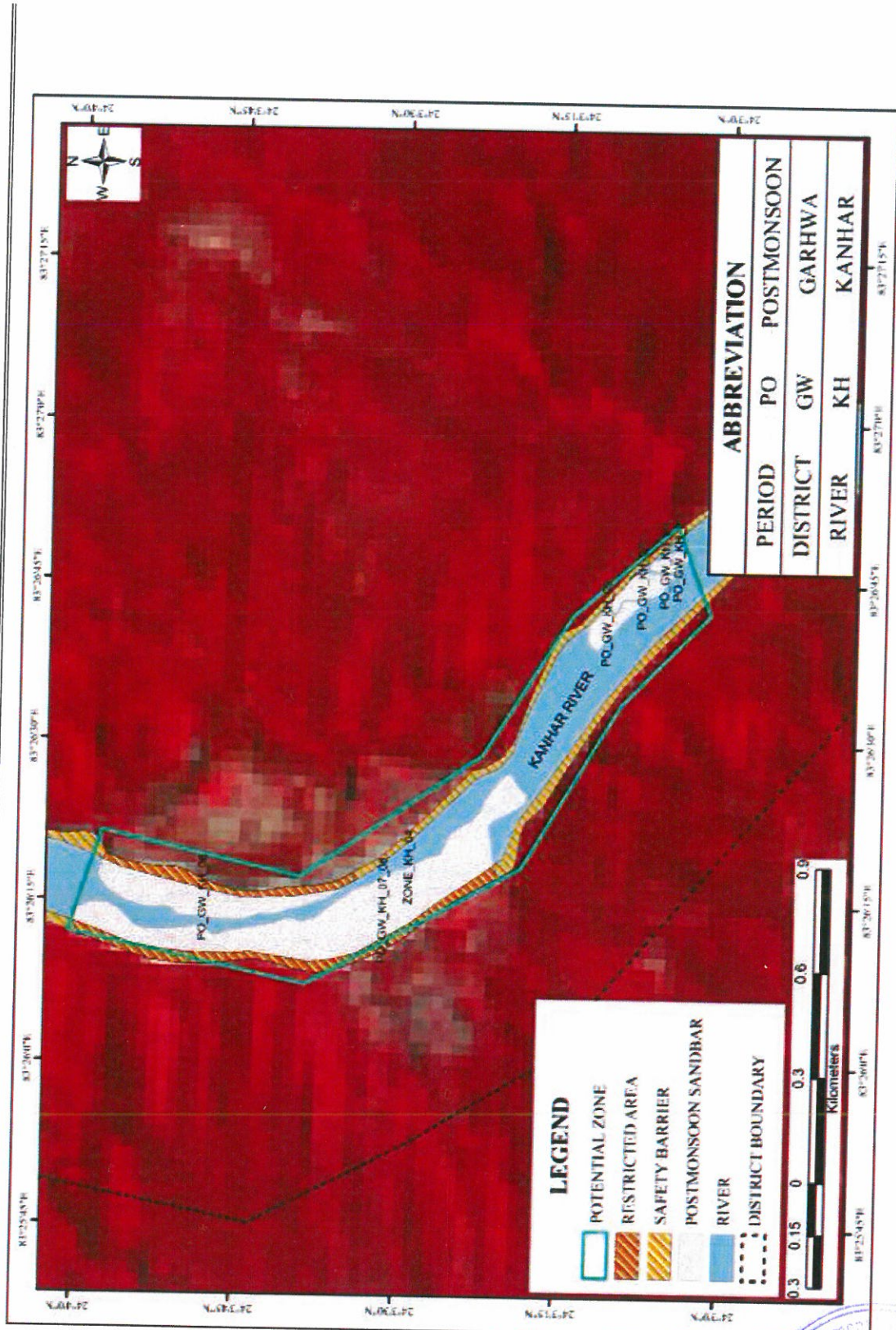


Plate No. B9: Plate showing potential Zone in post-monsoon

[Handwritten signature]

[Handwritten mark]



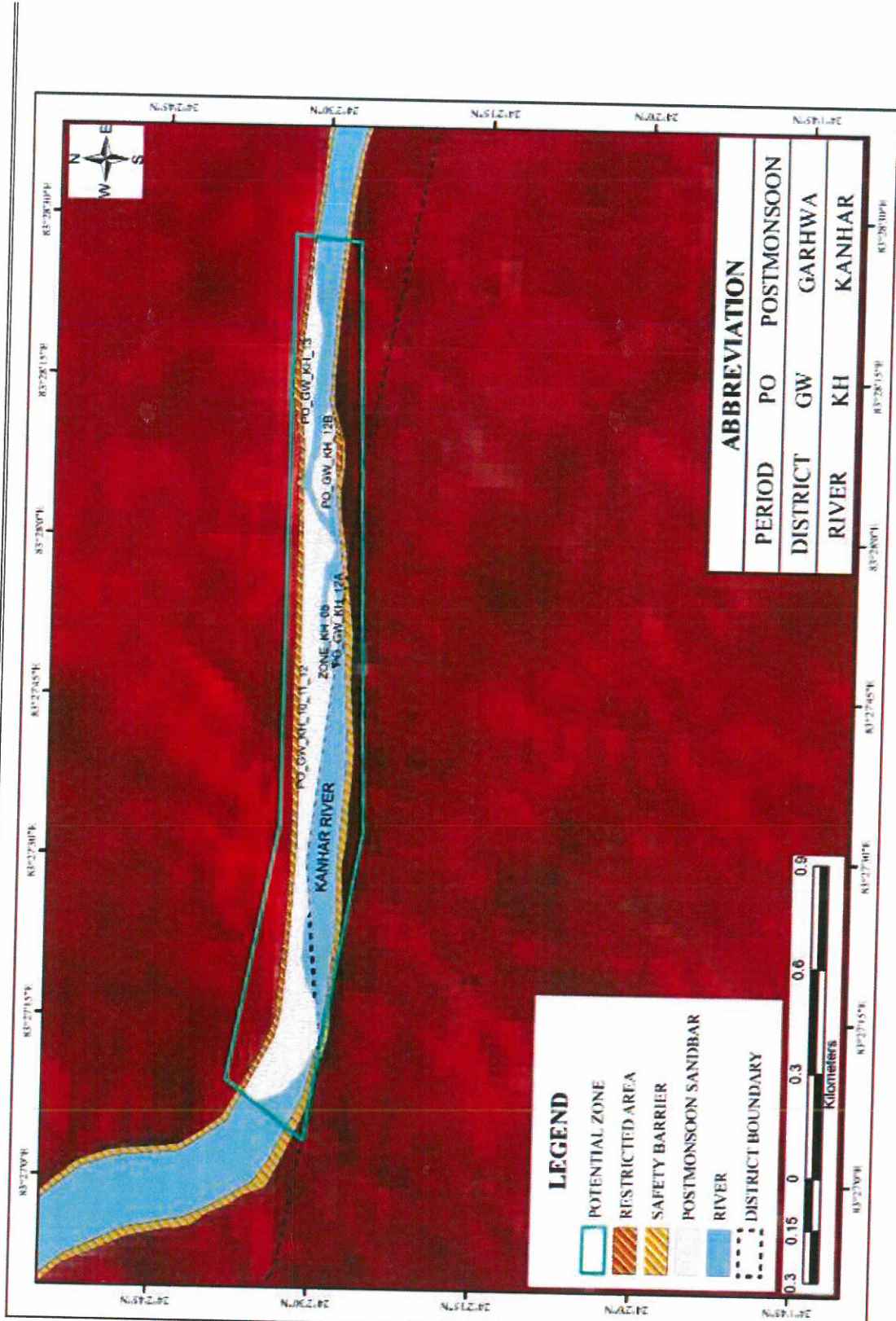


Plate No. B10: Plate showing potential Zone in post-monsoon

(Handwritten signature and initials)



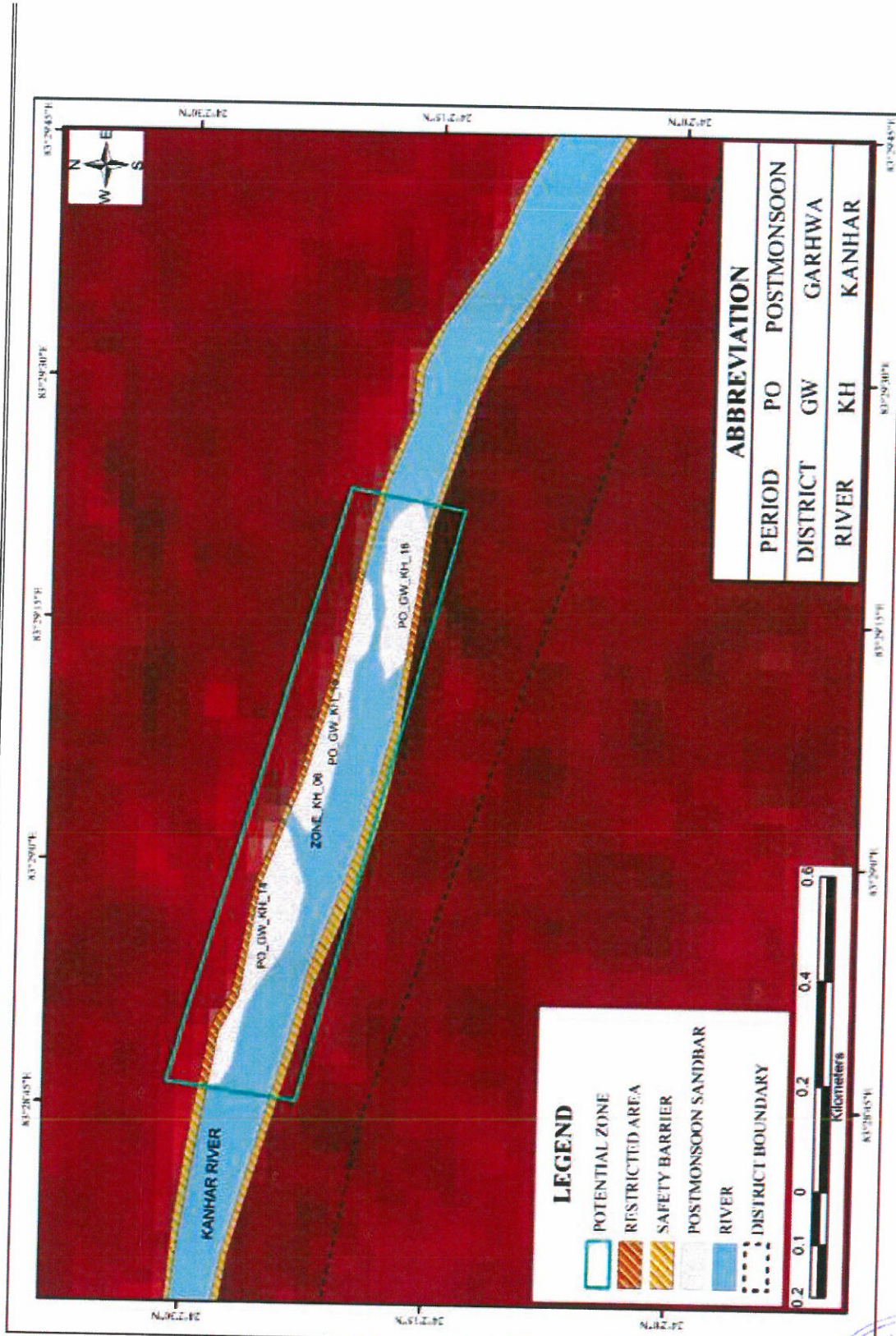


Plate No. B11: Plate showing potential Zone in post-monsoon

(Handwritten signatures)



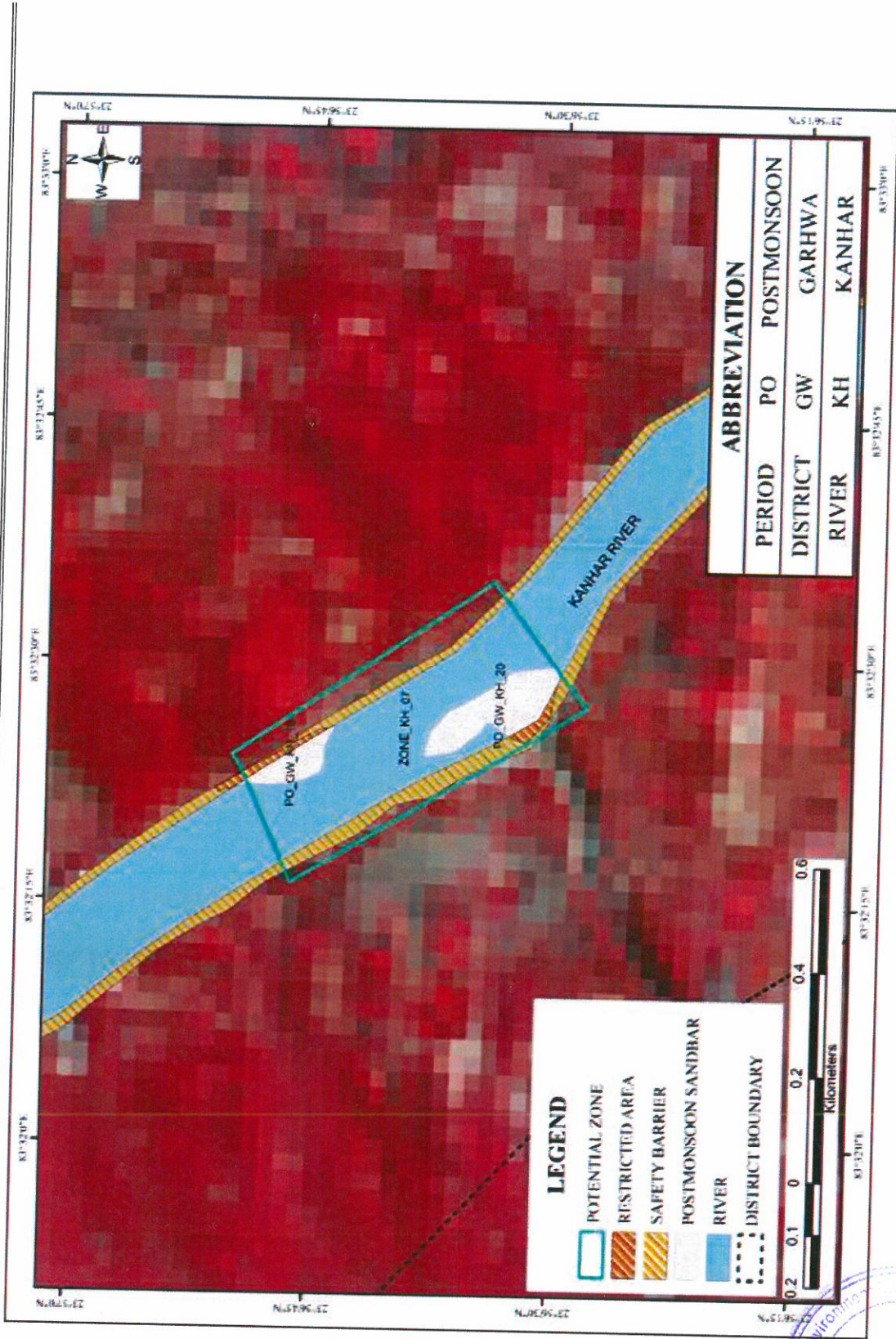


Plate No. B12: Plate showing potential Zone in post-monsoon

(Handwritten signature and initials)



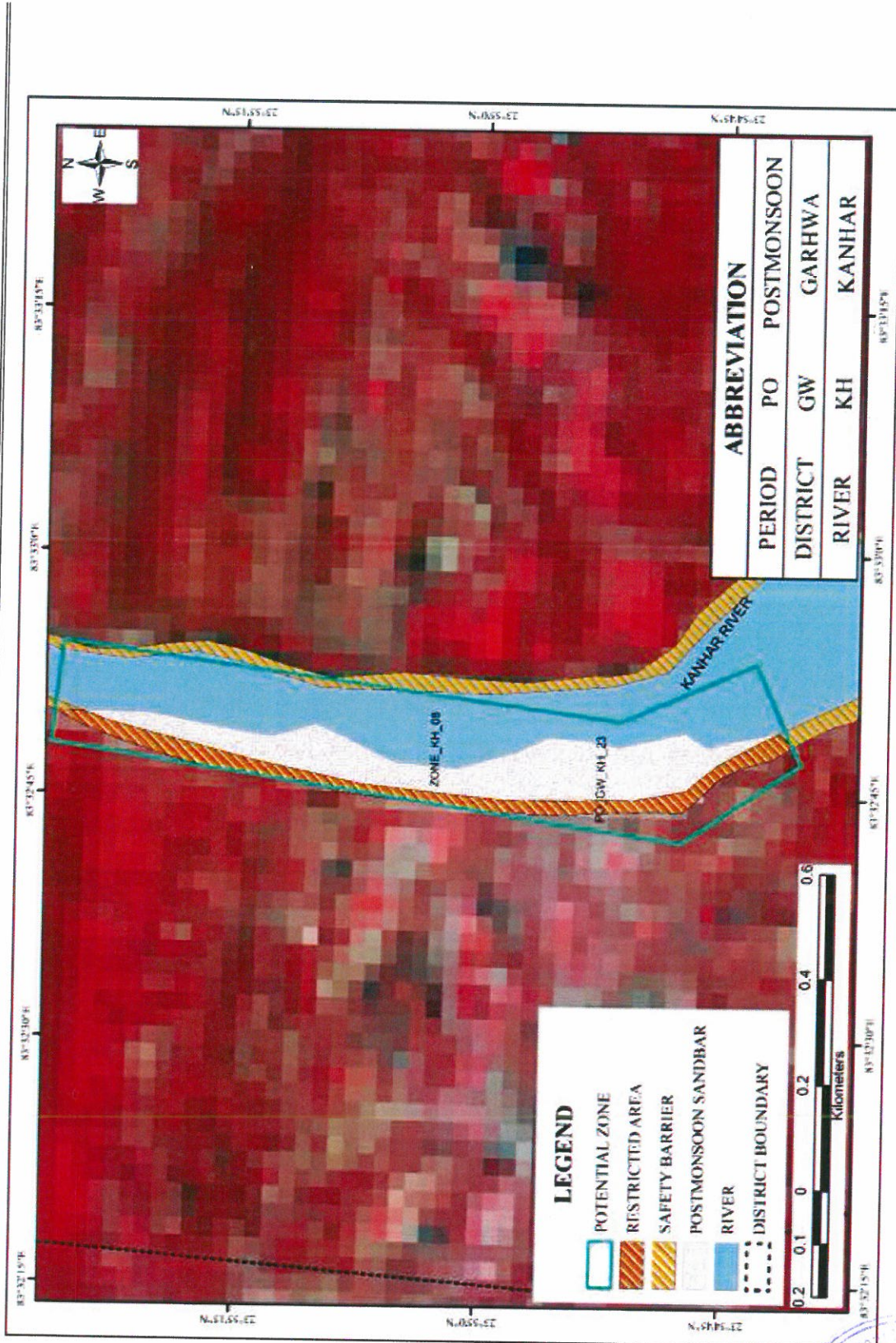


Plate No. B13: Plate showing potential Zone in post-monsoon

[Handwritten signature]

[Handwritten mark]



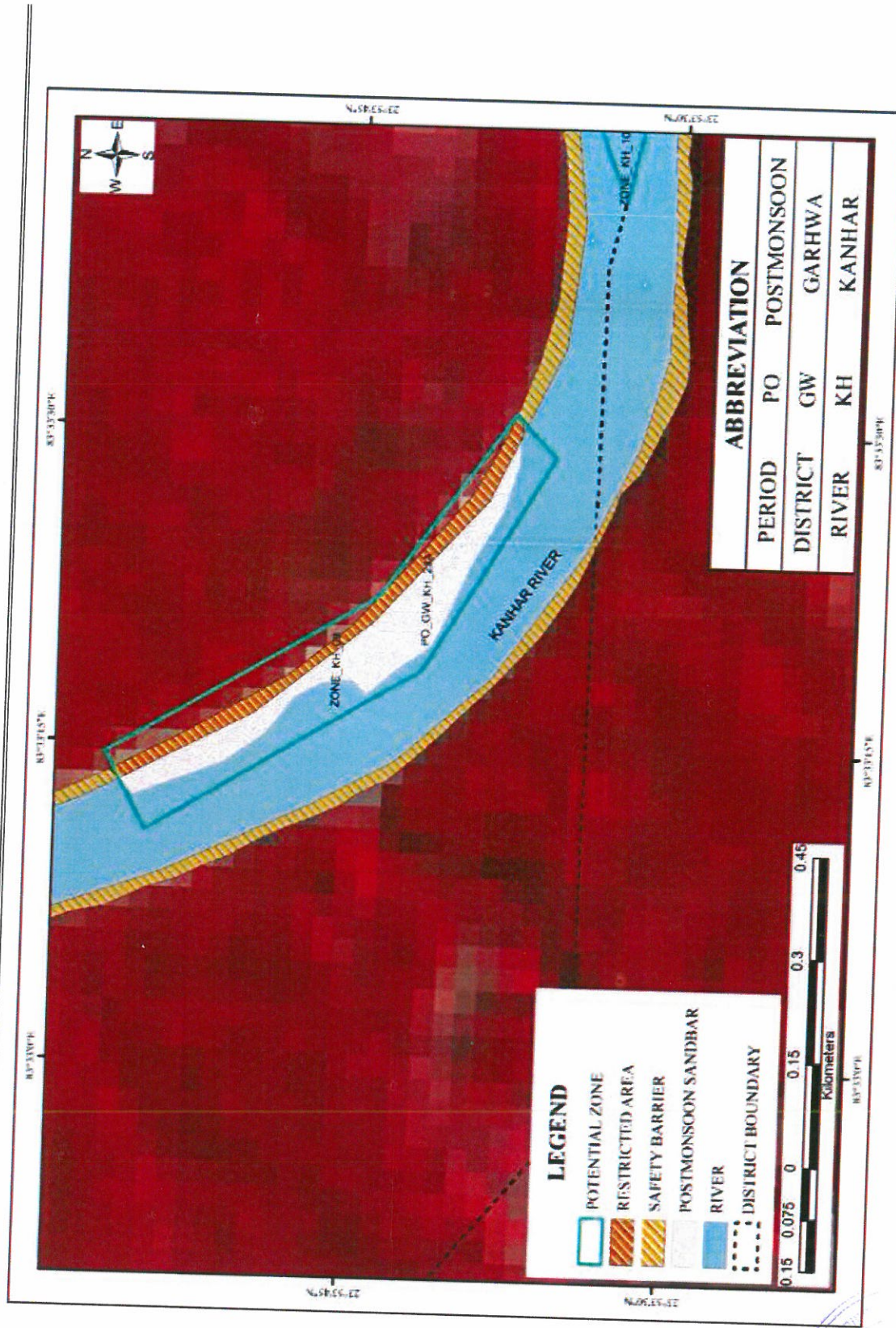
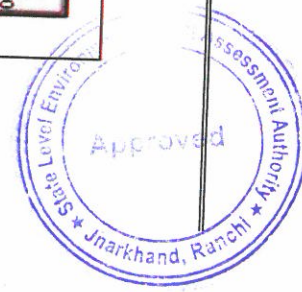


Plate No. B14: Plate showing potential Zone in post-monsoon

(Handwritten signature and mark)



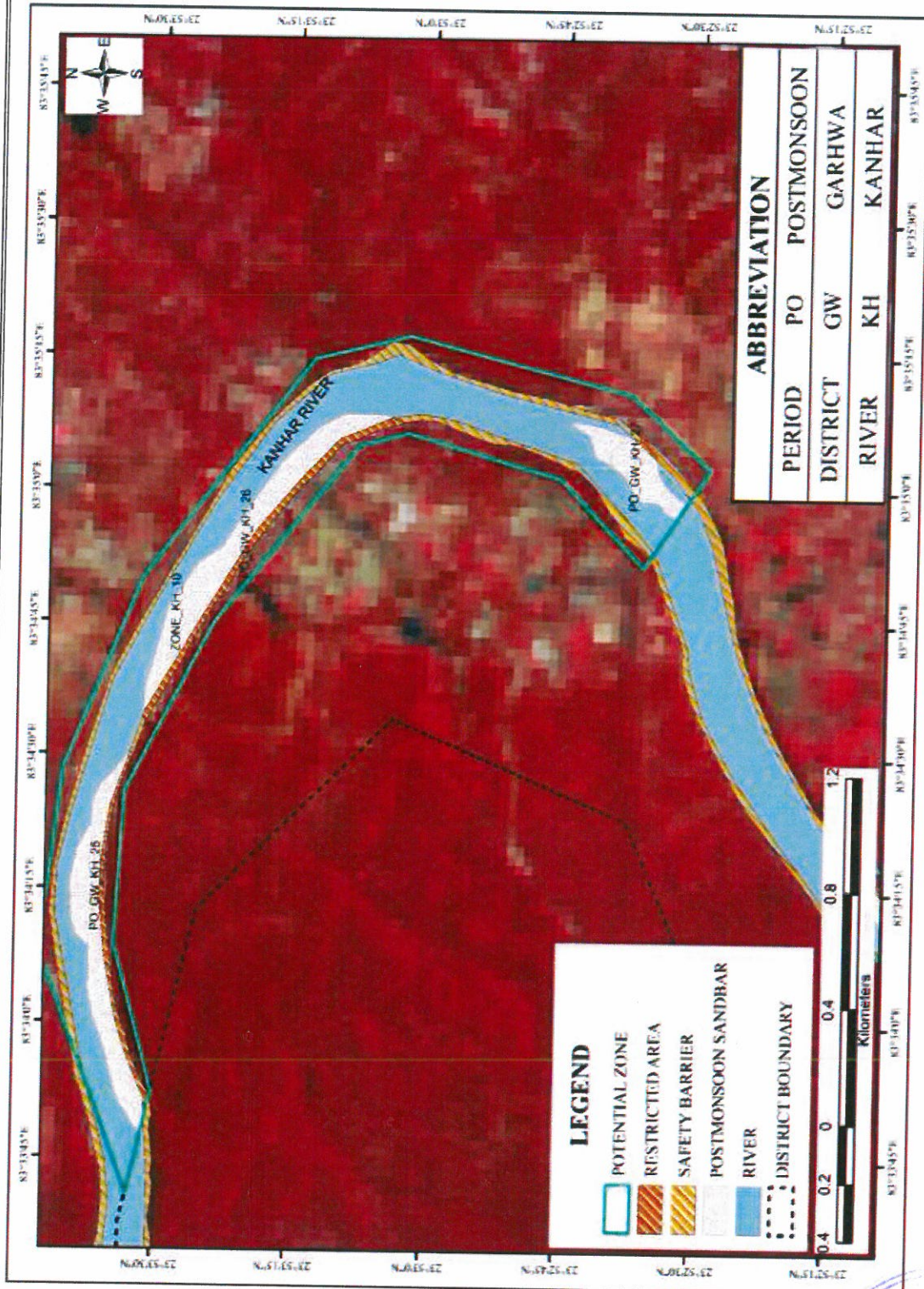


Plate No. B15: Plate showing potential Zone in post-monsoon

[Handwritten signature]
A



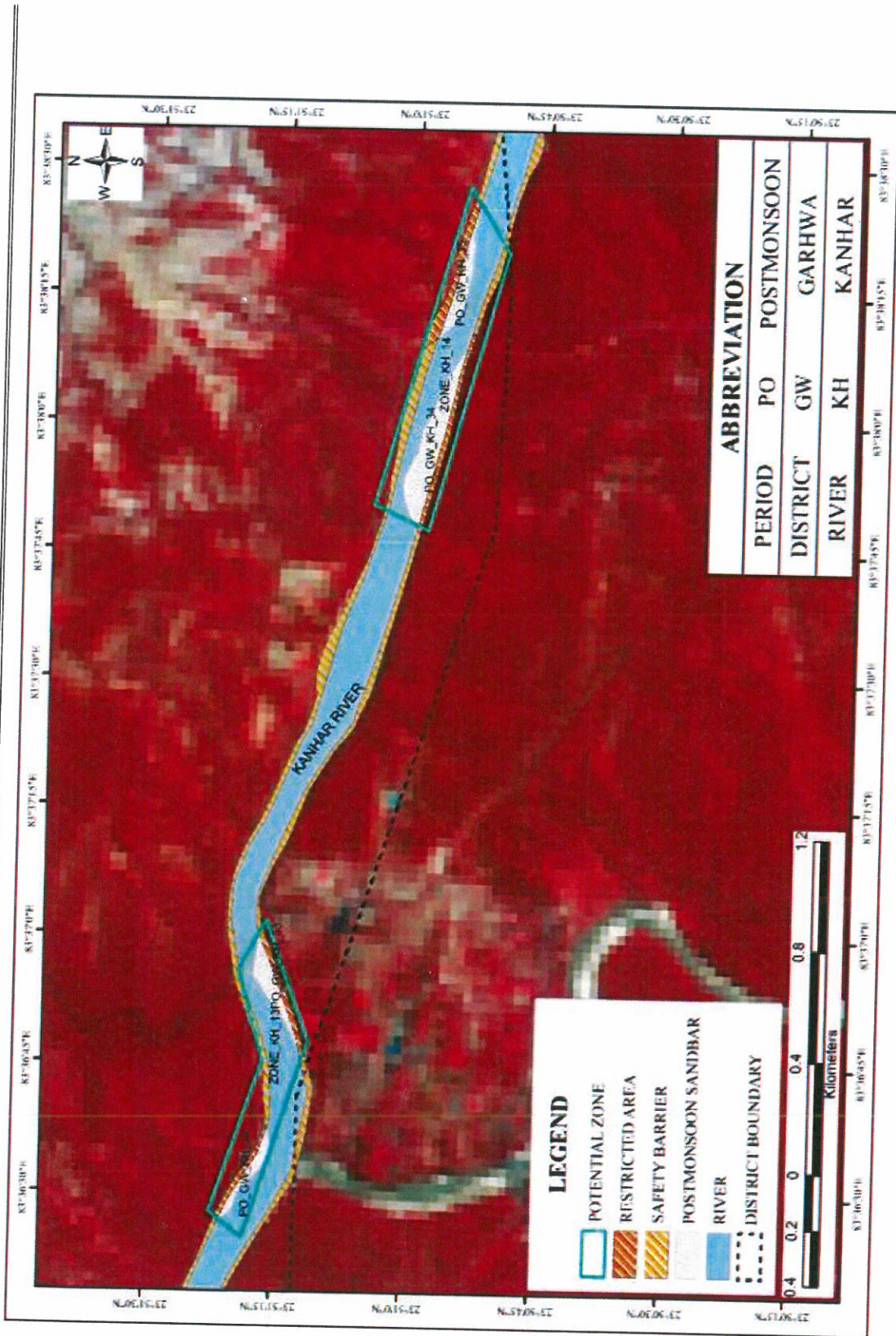


Plate No. 17: Plate showing potential Zone in post-monsoon

(Handwritten signature)

(Handwritten mark)



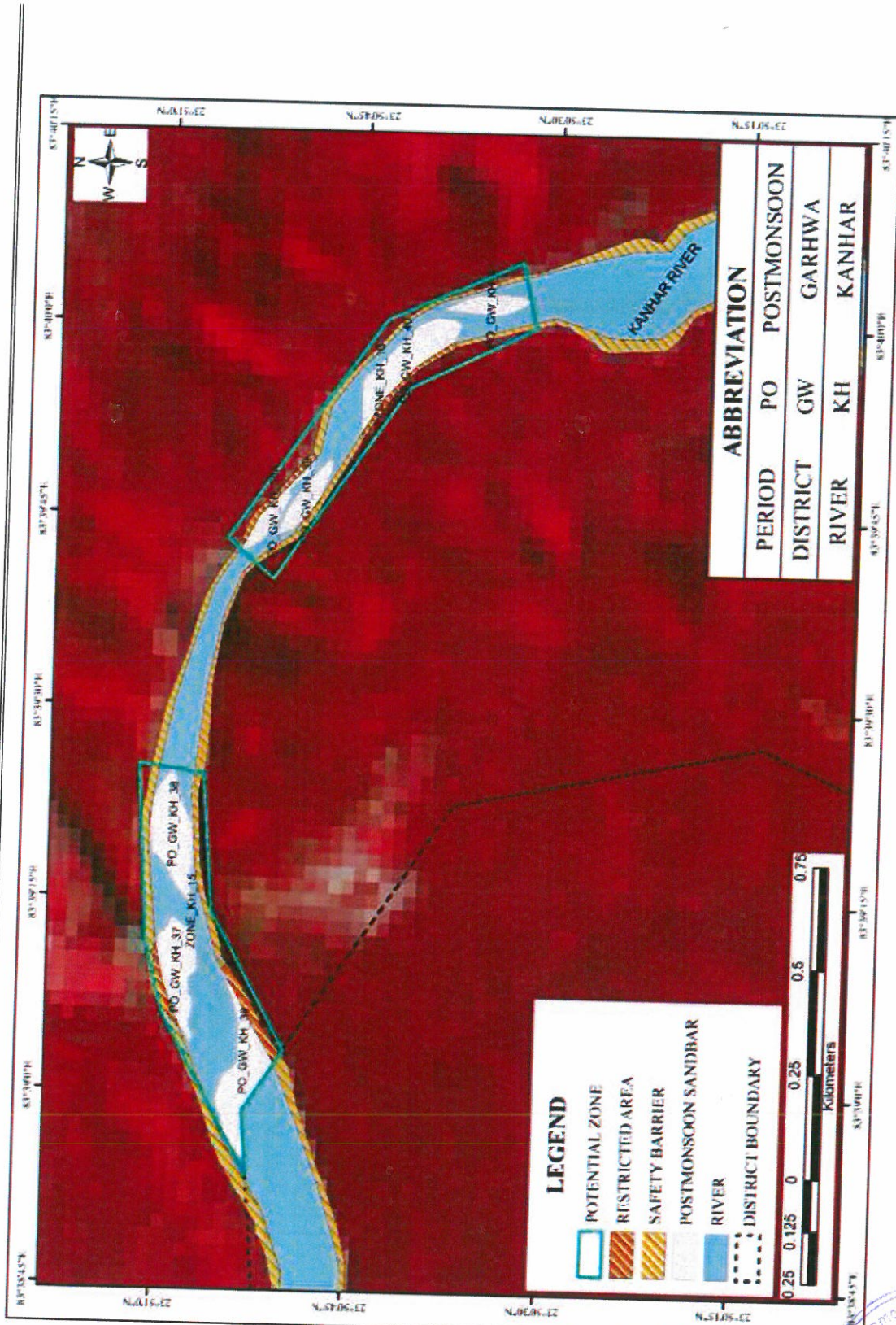
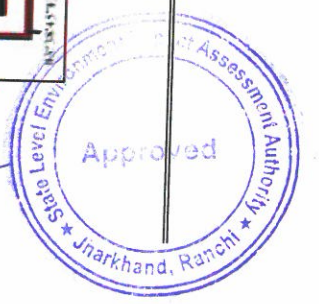


Plate No. B18: Plate showing potential Zone in post-monsoon

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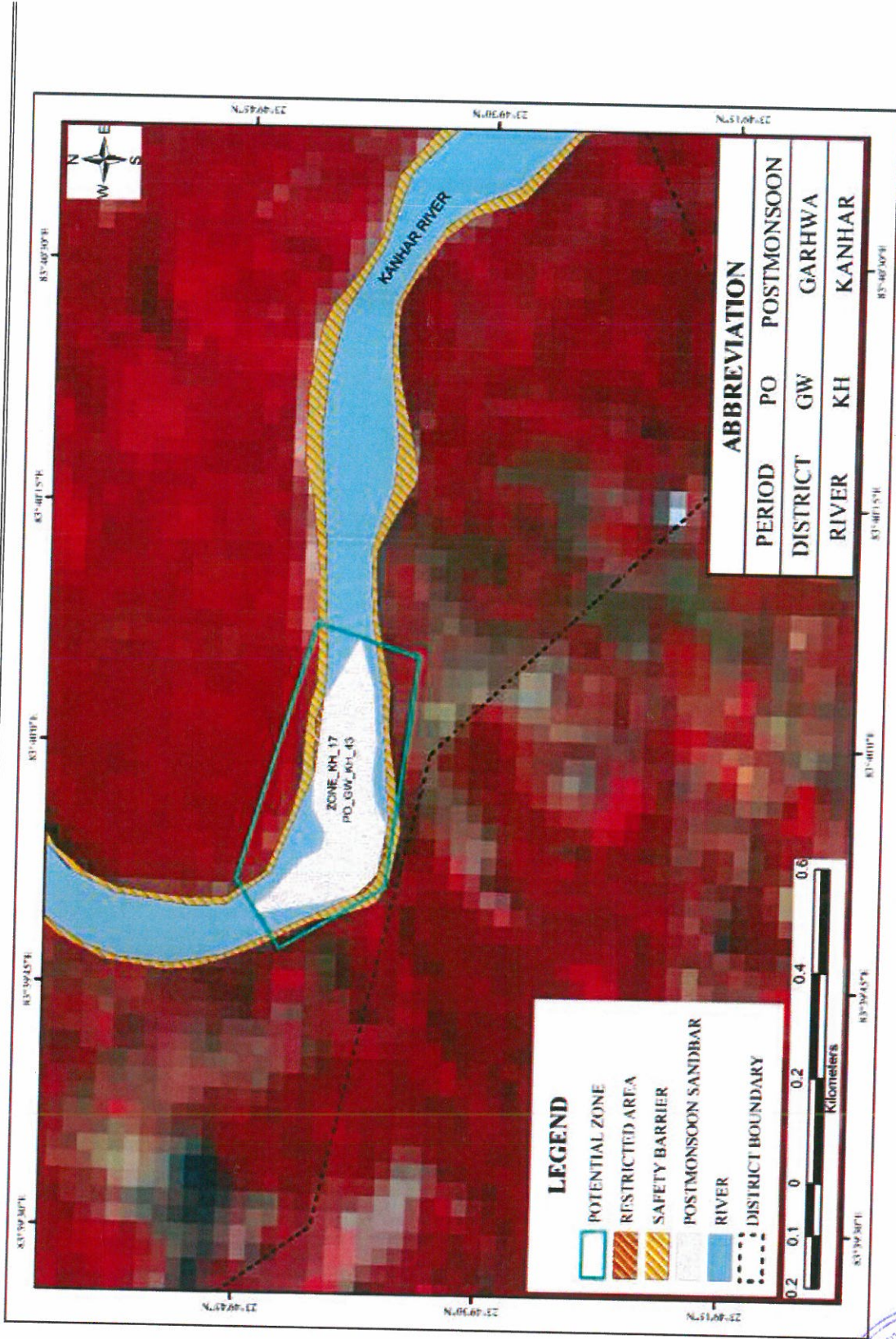


Plate No. B19: Plate showing potential Zone in post-monsoon

(Handwritten signature and initials)



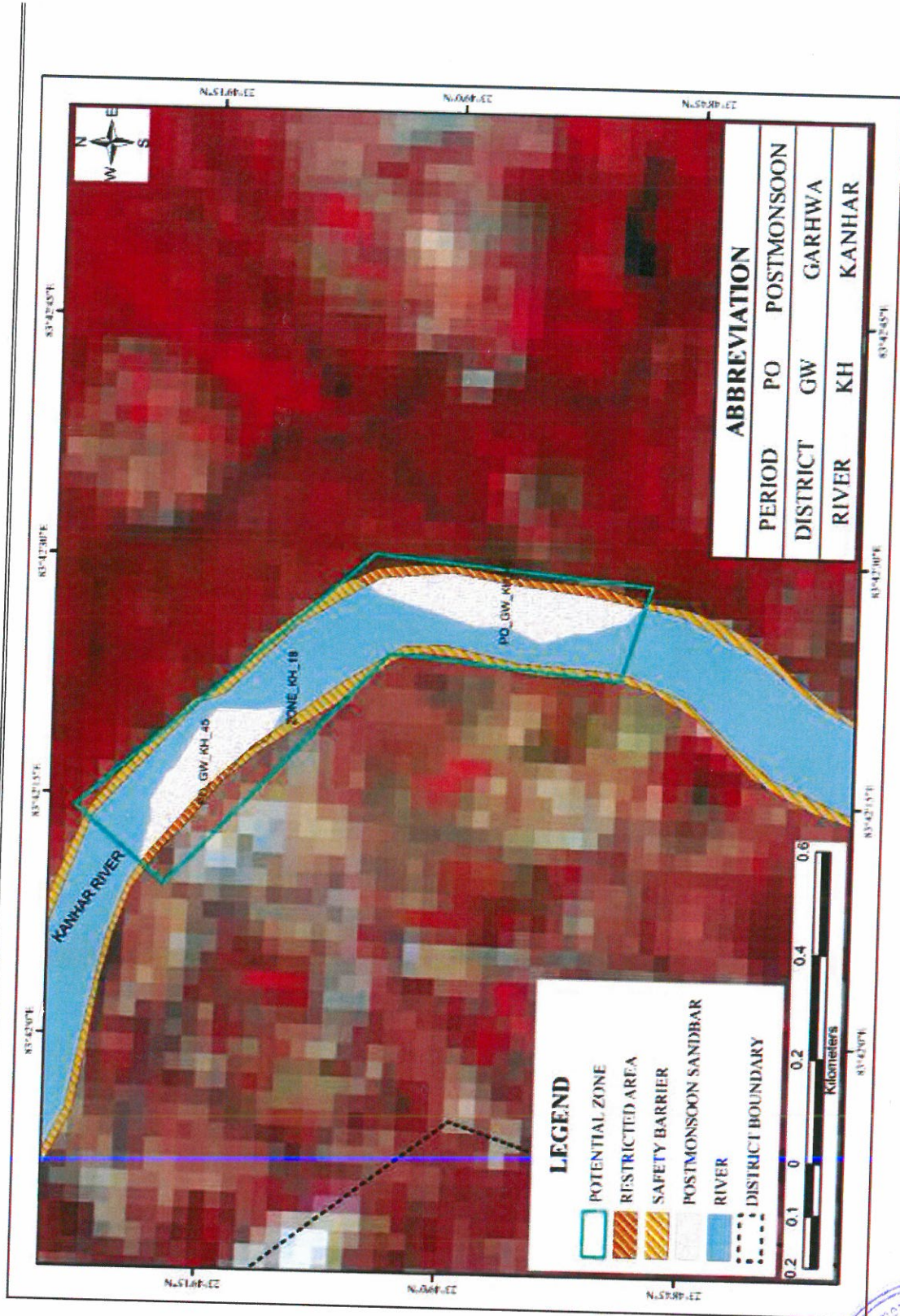


Plate No. B20: Plate showing potential Zone in post-monsoon

Handwritten signature and initials



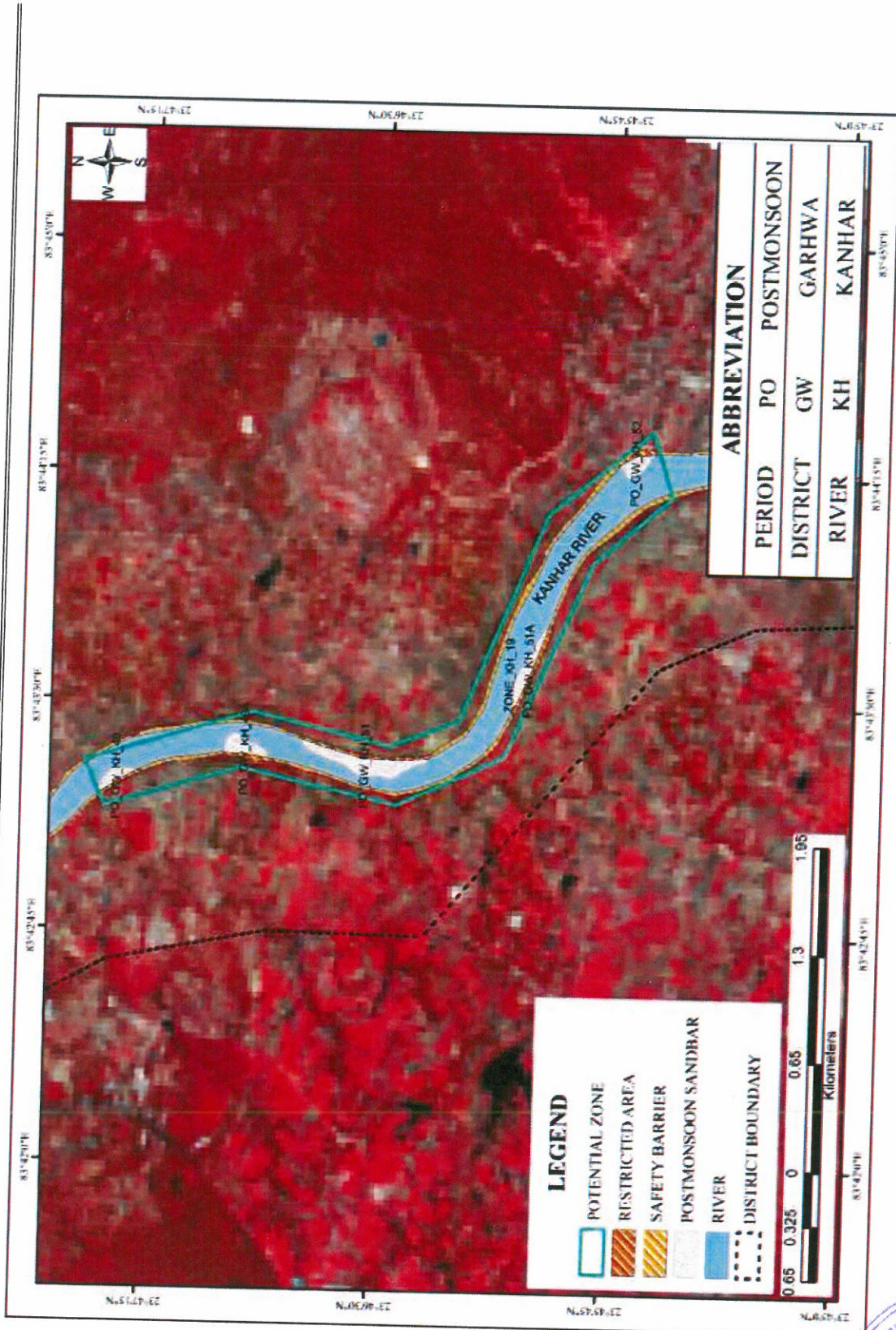


Plate No. B21: Plate showing potential Zone in post-monsoon

(Handwritten signature and initials)



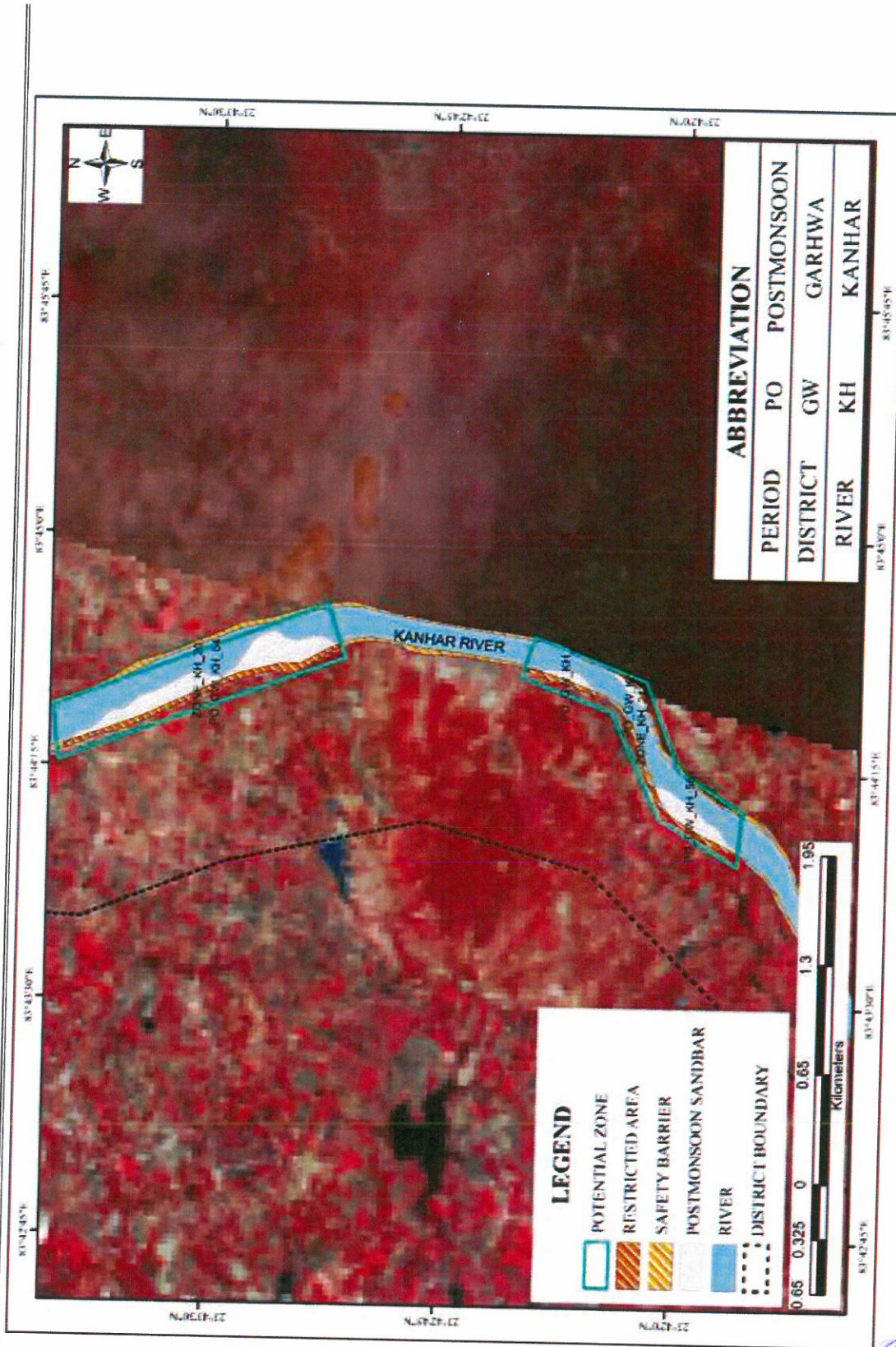
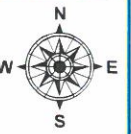


Plate No. B22: Plate showing potential Zone in post-monsoon

[Handwritten signature] A



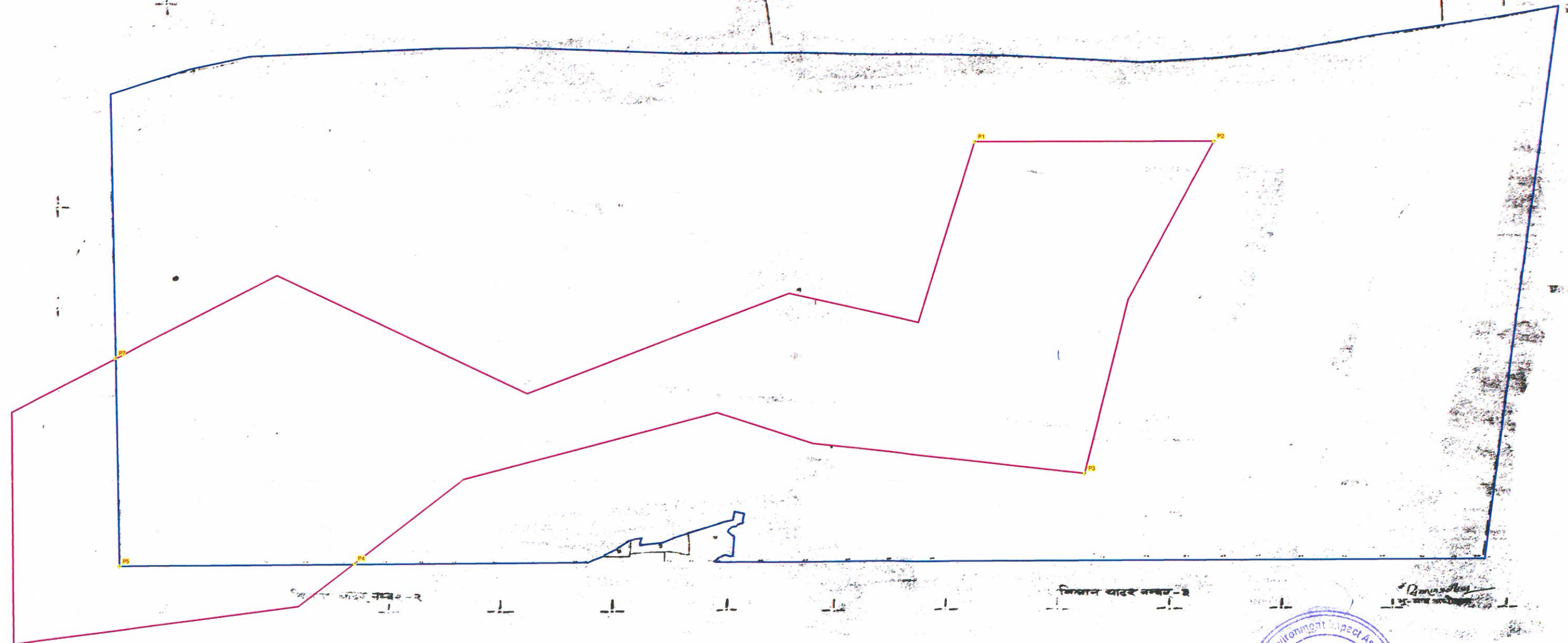
Proposed Ghat of Son - 1 , Block - Kandi, District - Garhwa, JHARKHAND



मन्दाहर नाम: सुनीपुरा
 राजस्व थाना: हुसेनाबाद
 पंचायत थाना: मन्दिनाबाद
 जिला: राँची
 मैदाना १६-१७ मीटर या १६ से. मी. २००३-२००४ ई.



नवाछिह
 थाना सासाराम
 जिला राँची



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BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
KANDI	SUNRIPURA	259	1	1	RIVER	635.2227	
TOTAL AREA						635.2227	

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	181952.0206	2716827.557	24°31' 57.778" N	83°51' 39.601" E
P2	182386.5529	2716818.651	24°31' 57.810" N	83°51' 55.030" E
P3	182138.3058	2716163.684	24°31' 36.363" N	83°51' 46.749" E
P4	180811.8399	2716015.95	24°31' 30.585" N	83°50' 59.796" E
P5	180384.2783	2716019.875	24°31' 30.395" N	83°50' 44.621" E
P7	180384.4463	2716431.452	24°31' 43.757" N	83°50' 44.293" E

Legend
 ● PILLAR POINT
 [Red Outline] PROPOSED GHAT
 [Blue Outline] VILLAGE WISE AREA

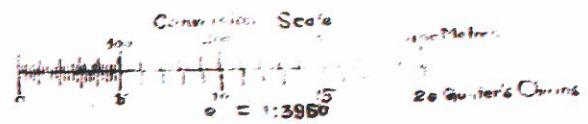
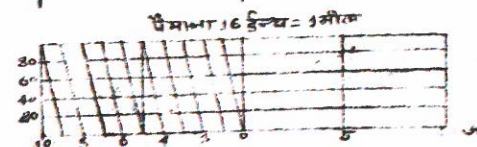
Proposed Area in Ha 83.4

Proposed Ghat of Son - 1, Block - Kandi, District - Garhwa, JHARKHAND

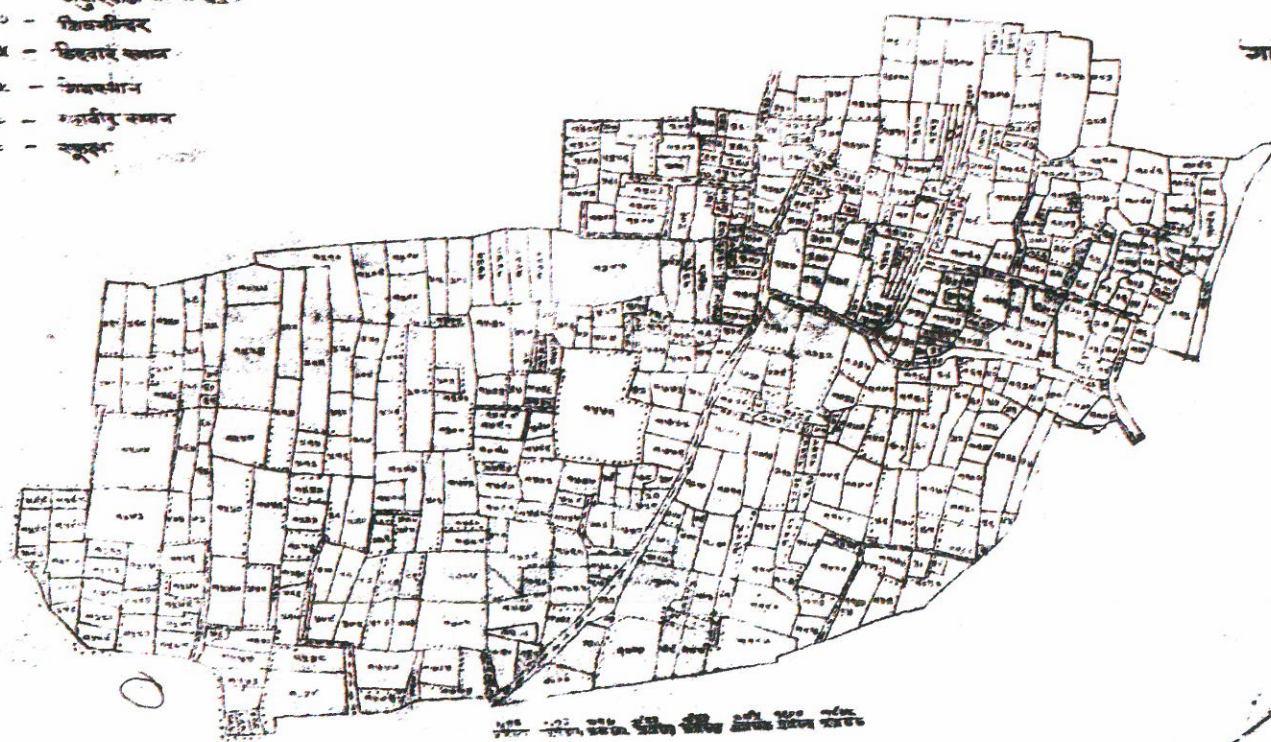


Sunripura

मशहूर नाम सुहापुरा बाहर नम्बर-२
 थाना नम्बर २५६
 राजस्व धाना हुसैनाबाद
 पुलिस थाना मफिजाब
 अंचल मफिजाब
 जिला गढ़वा



- सिद्धांत
- २६३ - बिरकुदर नगर
 - ६२३ - विषयमान
 - १५० - डाकुवाडी का मन्दिर
 - ६१० - विषयमन्दिर
 - ११६५ - विद्वान का मन्दिर
 - १२६२ - कावचमान
 - १६६८ - मन्दीर का मन्दिर
 - १६३८ - मन्दीर



सर्वकार के अधिकार के अधीन सब प्राधिकार

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
KANDI	SUNRIPURA	259	2	7	RIVER	31.9811	
						TOTAL AREA	31.9811

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P4	180811.8399	2716015.95	24°31' 30.585" N	83°50' 59.796" E
P5	180384.2783	2716019.875	24°31' 30.395" N	83°50' 44.621" E
P6	180388.5325	2715894.095	24°31' 26.315" N	83°50' 44.874" E

Proposed Area in Ha 83.4



- Legend**
- PILLAR POINT
 - PROPOSED GHAT
 - VILLAGE WISE AREA

Proposed Ghat of Son - 2 , Block - Kandi, District - Garhwa, JHARKHAND



Garakhurd
 मकसद नाम गाराखुर्द चार नम्बर १
 थाना नम्बर २५७
 राजस्व थाना हुसेनाबाद
 पुलिस थाना मफिजाँव
 अंचल मफिजाँव
 जिला गढ़वा
 विमाना २६६१ मीटर या १ से.मी. = ३२.६० मीटर
 सन् २००४-२००५ ई.



उलीबनाही
 जिला रोहतास

सिहजोदेह
 जिला रोहतास

सोन नदी

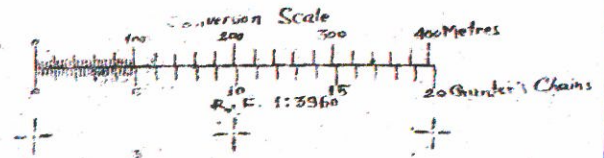
सोन नदी



गाड़ा कला
 न-२५६

सुडीपुरा
 न-२५६

सर्वकार के अधिकार के निर्मित करे प्रस्तावित



PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	180384.4463	2716431.452	24°31' 43.757" N	83°50' 44.293" E
P2	180388.5325	2715894.095	24°31' 26.315" N	83°50' 44.874" E
P3	179069.5618	2715845.713	24°31' 23.763" N	83°49' 58.109" E
P4	179111.4467	2716332.817	24°31' 39.607" N	83°49' 59.198" E

Proposed Area in Ha 83.40 of son 1
 Proposed Area in Ha 99.70 of son 2

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
KANDI	GARA KHURD	257	1	1	RIVER	323.9736	
TOTAL AREA						323.9736	



- Legend**
- PILLAR POINT
 - PROPOSED GHAT
 - VILLAGE WISE AREA

Plate F
(Composite Map of Kanhar River)



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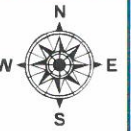
Plate G
(Composite Map of Garhwa district)



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Proposed Ghat of Son - 2 , Block - Kandi, District - Garhwa, JHARKHAND



Baliari

मशहूर नाम बलिआरी खदर नम्बर १

थाना नम्बर २३५

खदर निर्देशिका राजस्व थाना हुसेनाबाद

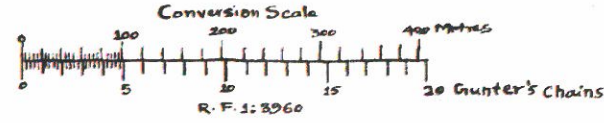
पुलिस थाना - मफिजाव

अंचल मफिजाव

जिला गढ़वा

सैमाना १६:१ मील या २ सें.मी. = ३८.६० मीटर

सन २००७-०८ ई०



क्रिउरा
जिला-रोहतास

लोहरा
जिला-रोहतास

जौहटा
जिला-रोहतास

सरकार के अधिकार के निर्मित एवं अस्तित्व

सोनपुरा
नं-२२८

गंडा कला
नं-२५६



मिलान खदर नम्बर-२



वि.सि.म.प. का
३-साथ अधीन

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	177622.0732	2715823.72	24°31' 21.967" N	83°49' 6.763" E
P2	177629.3738	2715727.929	24°31' 18.863" N	83°49' 7.101" E
P3	177559.8589	2715721.831	24°31' 18.613" N	83°49' 4.639" E
P4	177589.9417	2715772.479	24°31' 20.279" N	83°49' 5.665" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
KANDI	BALIARI	235	1	1	RIVER	438.7431	
TOTAL AREA						438.7431	

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Area in Ha 99.70

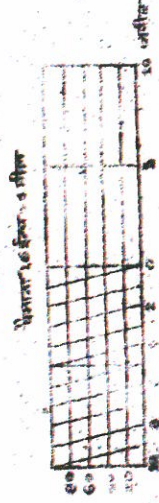
Proposed Ghat of Son - 2, Block - Kandi, District - Garhwa, JHARKHAND



Gara Kalam

असाहेब नाम गंगा नदी किनारे स्थित एक
 गाँव का नक्शा है।
 राजस्थान यात्रा बुलेटिन बाय
 पुलिस द्वारा अभिलेखित
 अंकल अभिलेखित
 जिला गढ़वा
 दिनांक २००७-२००८ ई.
 पृष्ठ २००७-२००८ ई.

(Handwritten signature)



गंगा नदी
 किनारे स्थित



PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	179111.4467	2716332.817	24°31'39.607" N	83°49'59.198" E
P2	179069.5618	2715845.713	24°31'23.763" N	83°49'58.109" E
P3	177622.0732	2715823.72	24°31'21.967" N	83°49'6.763" E
P4	177629.3738	2715727.929	24°31'18.863" N	83°49'7.101" E

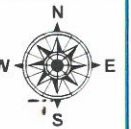
Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA IN ACR	REMARKS
KANDI	GARA KALAN	256	1	1	RIVER	369.056	
						TOTAL AREA	369.056

Proposed Area in Ha 99.70

Proposed Ghat of Son - 3 , Block - Bhawnathpur, District - Garhwa, JHARKHAND



मिलान खादर नम्बर-१

- नदिना स्थान
- ७० - देवस्थान
 - ७५ - " "
 - १८८ - " "
 - ३२६ - अवादिस्थान
 - ४७० - मन्दिर
 - ८६६ - ग्रहमस्थान
 - १५२२ - मध्य विद्यालय
 - २३६० - देवस्थान

Dumarsota
 मशहूर नाम दुमरसोता खादर नम्बर-२
 थाना नम्बर ८०
 राजस्व थाना हुसेनाबाद
 पुलिस थाना भवनाथपुर
 अंचल भवनाथपुर
 जिला गढ़वा
 पैमाना १ इंच = १ मील या १ सें.मी. = ३८.६० मीटर
 सन् २००९-०८ ई.

शेखपुरा उर्फ दाबसडकी
 नं-८१
 थाना - मफिजाँव

पीन्द्राहा
 नं-८२
 थाना - मफिजाँव

सडकी
 नं-८४
 थाना - मफिजाँव

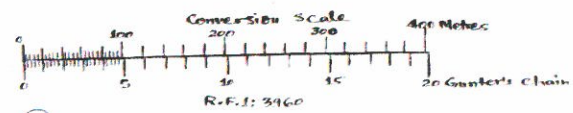
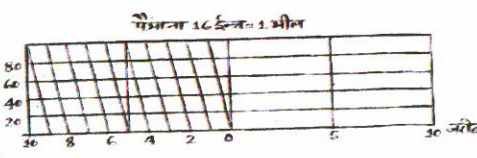
दरीदह
 नं-७८

कुसही
 नं-७९

टबरिजा
 नं-८६
 थाना - मफिजाँव

सर्वेक्षण से जमीन तालुका कार्यालय में दर्ज है।
 सर्वेक्षण से जमीन तालुका कार्यालय में दर्ज है।
 सर्वेक्षण से जमीन तालुका कार्यालय में दर्ज है।
 सर्वेक्षण से जमीन तालुका कार्यालय में दर्ज है।
 सर्वेक्षण से जमीन तालुका कार्यालय में दर्ज है।

सरकार के अधिकार से निर्मित एवं प्रकाशित



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
BHAWNATHPUR	DUMARSOLA	80	2	2745	RIVER	13.9058	
BHAWNATHPUR	DUMARSOLA	80	2	2	RIVER	87.9272	
TOTAL AREA						101.834	

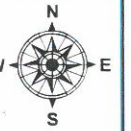
Proposed Area in Ha 86

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P3	171994.9353	2713672.359	24 30' 7.878" N	83 45' 48.885" E
P4	172015.1204	2713884.379	24 30' 14.776" N	83 45' 49.425" E
P5	172742.963	2713583.963	24 30' 5.578" N	83 46' 15.496" E
P6	171994.9353	2713672.359	24 30' 7.878" N	83 45' 48.885" E

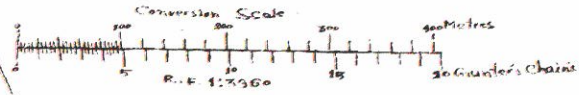
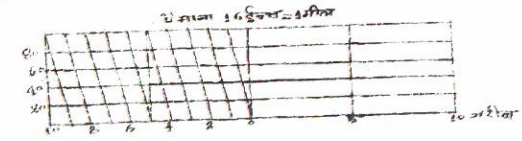
- Legend**
- PILLAR POINT
 - PROPOSED GHAT
 - VILLAGE WISE AREA

खाना नम्बर ८०
राजस्व खाना हुसेनाबाद

Proposed Ghat of Son - 3 , Block - Bhawnathpur, District - Garhwa, JHARKHAND



Dumarsola
 मराहुर नाम डुमरसोला खाना नम्बर-१
 खाना नम्बर ८०
 राजस्व खाना हुसेनाबाद
 पुलिस खाना भवनाथपुर
 खंचल भवनाथपुर
 जिला गढ़वा
 पैमाना १ इंच = १ मील या १ सें.मी = ३३.०० मीटर
 सन् २०००-०८ ई.



पड़रिआ
जिला-रोहतास

खोन नदी

दारीदह
नं-७८

शेखपुरा डफे टाबसड़की
नं-८९

सरकार के प्राधिकार से निर्मित एवं प्रकाशित

मिलान खाना नम्बर २

निर्वाह विभाग
भू-साप अधीन



Legend

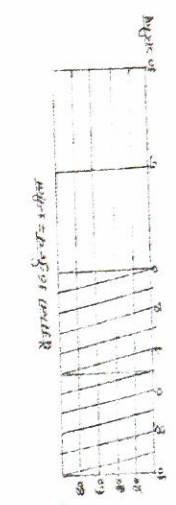
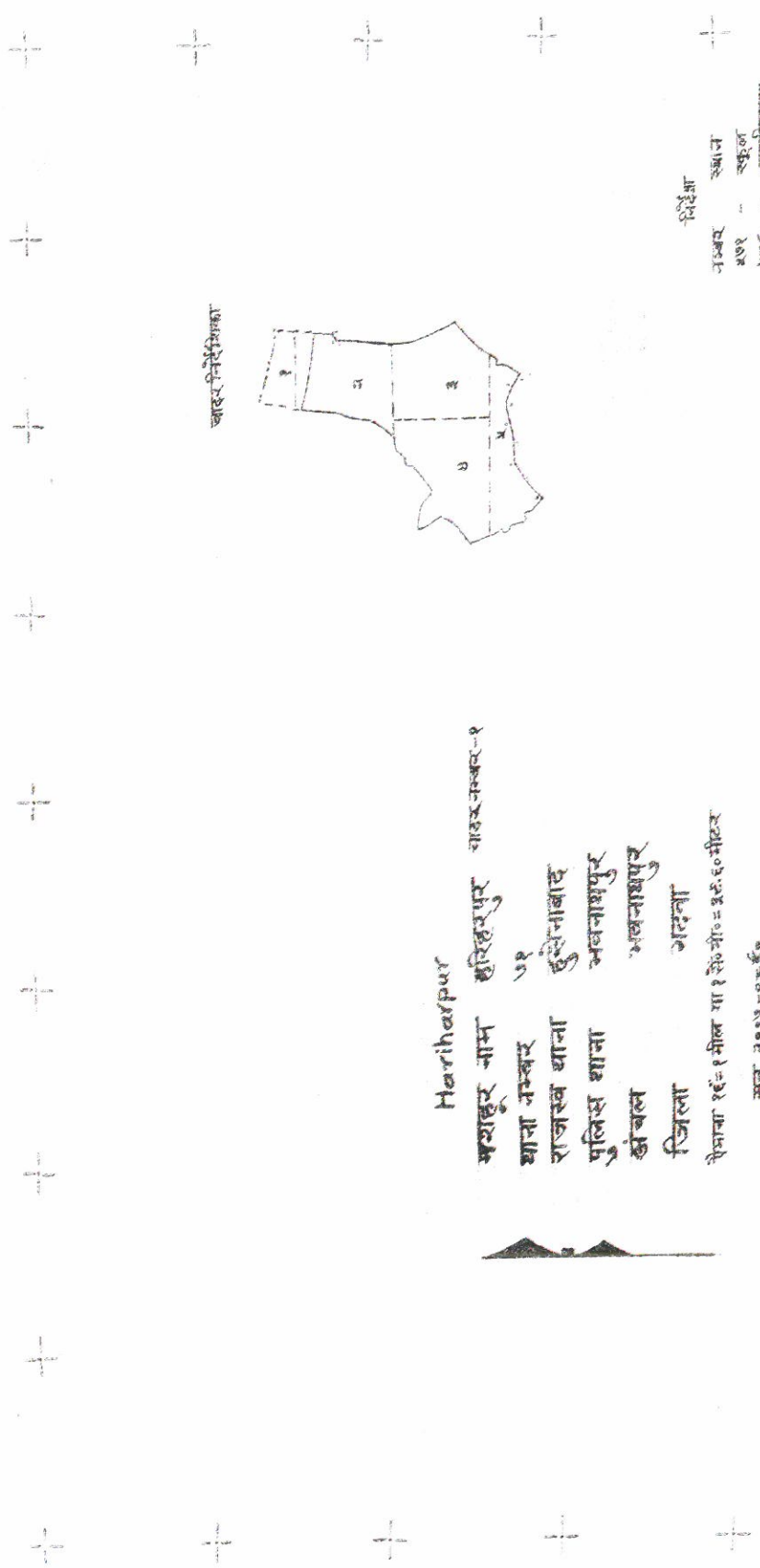
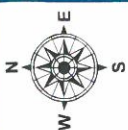
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	172625.14	2713872.672	24 30' 14.860" N	83 46' 11.076" E
P2	172742.963	2713583.963	24 30' 5.578" N	83 46' 15.496" E
P3	171994.9353	2713672.359	24 30' 7.878" N	83 45' 48.885" E
P4	172015.1204	2713884.379	24 30' 14.776" N	83 45' 49.425" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
BHAWNATHPUR	DUMARSOLA	80	1	1	RIVER	428.4065	
BHAWNATHPUR	DUMARSOLA	80	1	2994	RIVER	0.9	
TOTAL AREA						429.3065	

Proposed Area in Ha 86

Proposed Ghat of Son - 4 , Block - Bhawnathpur, District - Garhwa, JHARKHAND



Scale: 1:50,000

सरकार के प्राधिकार से निर्मित एवं प्रकाशित

पैमाना ३०६९ मीटर



सोन नदी

खण्ड नं-७६

वि.सं. ०१५/०१

भू-गाय अधीनस्थ



मिलान खास नम्बर-३

PILLAR NO	EASTING	NORTHING	LONGITUDE
P1	167534.2735	2713677.986	24°30'4.642" N 83°43'10.635" E
P2	167494.1699	2713519.054	24°29'59.452" N 83°43'9.346" E
P3	166382.167	2713972.874	24°30'13.324" N 83°42'29.515" E
P4	166301.5529	2713550.424	24°29'59.549" N 83°42'27.012" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
BHAWNATHPUR	HARIHARPUR	71	1	1	RIVER	150.874	
						TOTAL AREA	150.874

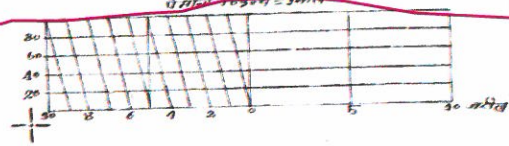
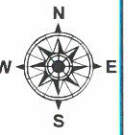
- Legend**
- PILLAR POINT
 - PROPOSED GHAT
 - VILLAGE WISE AREA

Proposed Area in Ha 213

Proposed Ghat of Son - 4 , Block - Bhawnathpur, District - Garhwa, JHARKHAND

राजस्व थाना - हुसेनाबाद

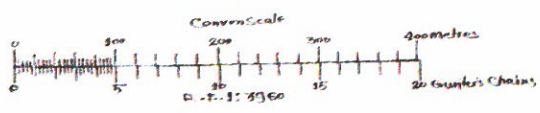
मिलान चादर नम्बर-१



लोहरगढ़ा
नं-७०

मिर्दान

नम्बर	स्थान
३०६	कन्ननाह
४३२	देवधल देवी
८६०	अम्बारीवास
६४६	उत्तम सिधालम
४०६	कठुनाह



Hariharpur
महाहूर नाम हरिहरपुर चादर नम्बर-२
थाना नम्बर ७१
राजस्व थाना हुसेनाबाद
पुलिस थाना भवनाथपुर
अंचल भवनाथपुर
जिला गढ़वा
पैमाना १ इंच=१ मील या १ सेंटीमीटर=३६.६० मीटर
सन् २००७-०८ ई०

मिर्दान
३०६ कन्ननाह
४३२ देवधल देवी
८६० अम्बारीवास
६४६ उत्तम सिधालम
४०६ कठुनाह

सरकार के प्राधिकार से निर्मित एवं प्रकाशित



- Legend**
- PILLAR POINT
 - PROPOSED GHAT
 - VILLAGE WISE AREA

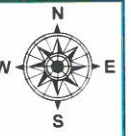
PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P2	167494.1699	2713519.054	24°29' 59.452" N	83°43' 9.346" E
P4	166301.5529	2713550.424	24°29' 59.549" N	83°42' 27.012" E
P5	166291.9491	2713497.253	24°29' 57.815" N	83°42' 26.717" E
P6	167398.9358	2713141.647	24°29' 47.128" N	83°43' 6.286" E

Proposed Area in Ha 213

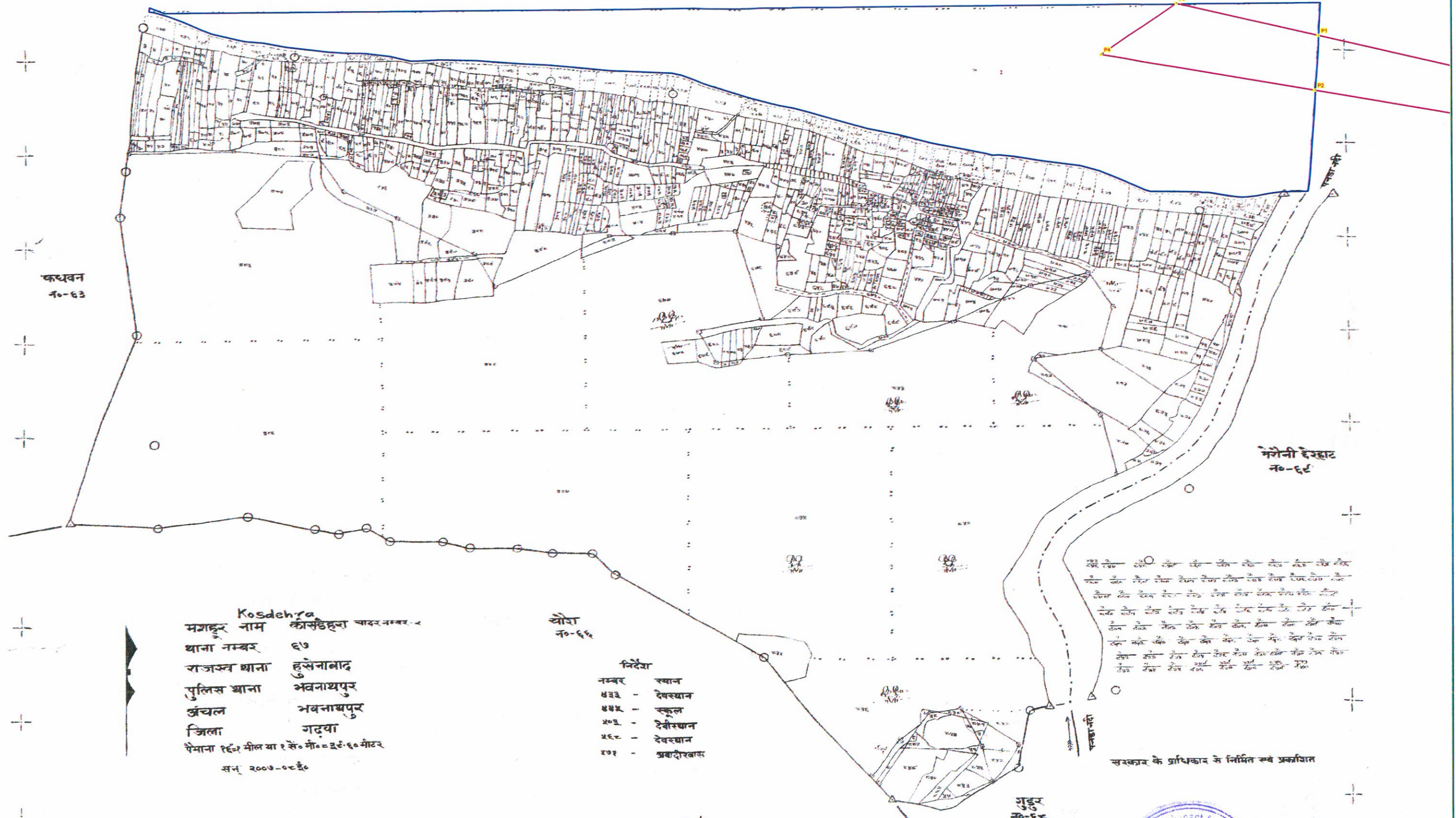
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
BHAWNATHPUR	HARIHARPUR	71	2	2	RIVER	82.089	
TOTAL AREA						82.089	

वर्ष

Proposed Ghat of Son - 4 , Block - Ketar, District - Garhwa, JHARKHAND



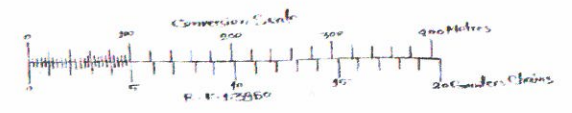
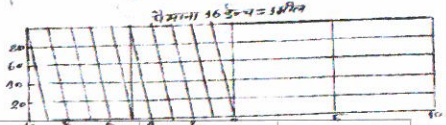
मिलान खादर नम्बर-१



Kosdehra
 मशहूर नाम कोसडेहरा खादर नम्बर-१
 थाना नम्बर ६७
 राजस्व थाना हुसेनाबाद
 पुलिस थाना भवनाथपुर
 अंचल भवनाथपुर
 जिला गढ़वा
 पैमाना १ ईंच = १ मील या १ से.मी = ३६.६० मीटर
 सन् २००७-०८ ई

सौरा नं-६६
 विदेश
 नम्बर स्थान
 ४३३ - देवस्थान
 ४४५ - स्कूल
 ४०३ - देवीस्थान
 ४६२ - देवस्थान
 ४७१ - प्रवादीरवास

सर्वकार के प्राधिकार से निर्मित एवं प्रकाशित



PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	163794.0471	2714180.287	24°30' 18.045" N	83°40' 57.525" E
P2	163784.0159	2714062.418	24°30' 14.211" N	83°40' 57.270" E
P3	163516.8919	2714258.993	24°30' 20.383" N	83°40' 47.626" E
P4	163365.9426	2714152.084	24°30' 16.795" N	83°40' 42.362" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
KETAR	KOSDEHRA	67	2	2	RIVER	120.6838	
TOTAL AREA						120.6838	



Legend

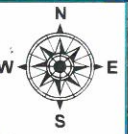
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Area in Ha 213

Handwritten signatures and initials in blue ink.

Proposed Ghat of Son - 4 , Block - Ketar, District - Garhwa, JHARKHAND

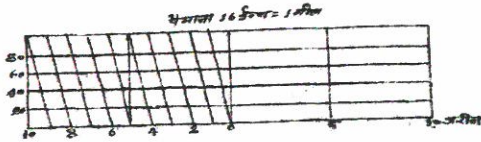
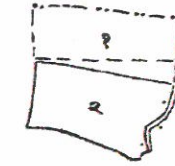
ग्राम - कुसेहरा
राजस्व थाना - हुसेनाबाद



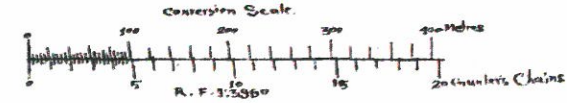
Kosdehra

मसहूर नाम कोसडेहरा थाना नम्बर-१
थाना नम्बर ६७
राजस्व थाना हुसेनाबाद
पुलिस थाना भवनाथपुर
अंचल भवनाथपुर
पैमाना १ इंच = १ किलोमीटर = ३२.६० मीटर

थाना निर्देशिका



सन् २०१७-०० ई.
जिला गढ़वा



अनुसूची
जिला - राँचे

सरकार के प्राधिकार के निर्मित एवं प्रकाशित

नवाडीह खुर्द
जिला - राँचे

विजरा कर्ला
जिला - राँचे

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	163794.0471	2714180.287	24°30' 18.045" N	83°40' 57.525" E
P2	163784.0159	2714062.418	24°30' 14.211" N	83°40' 57.270" E
P3	163516.8919	2714258.993	24°30' 20.383" N	83°40' 47.626" E
P4	163365.9426	2714152.084	24°30' 16.795" N	83°40' 42.362" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
KETAR	KOSDEHRA	67	1	1	RIVER	513.936	
TOTAL AREA						513.936	

Proposed Area in Ha 213

मिलान थाना नम्बर-२

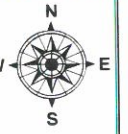


विजरा कर्ला
भाग अ-थाना

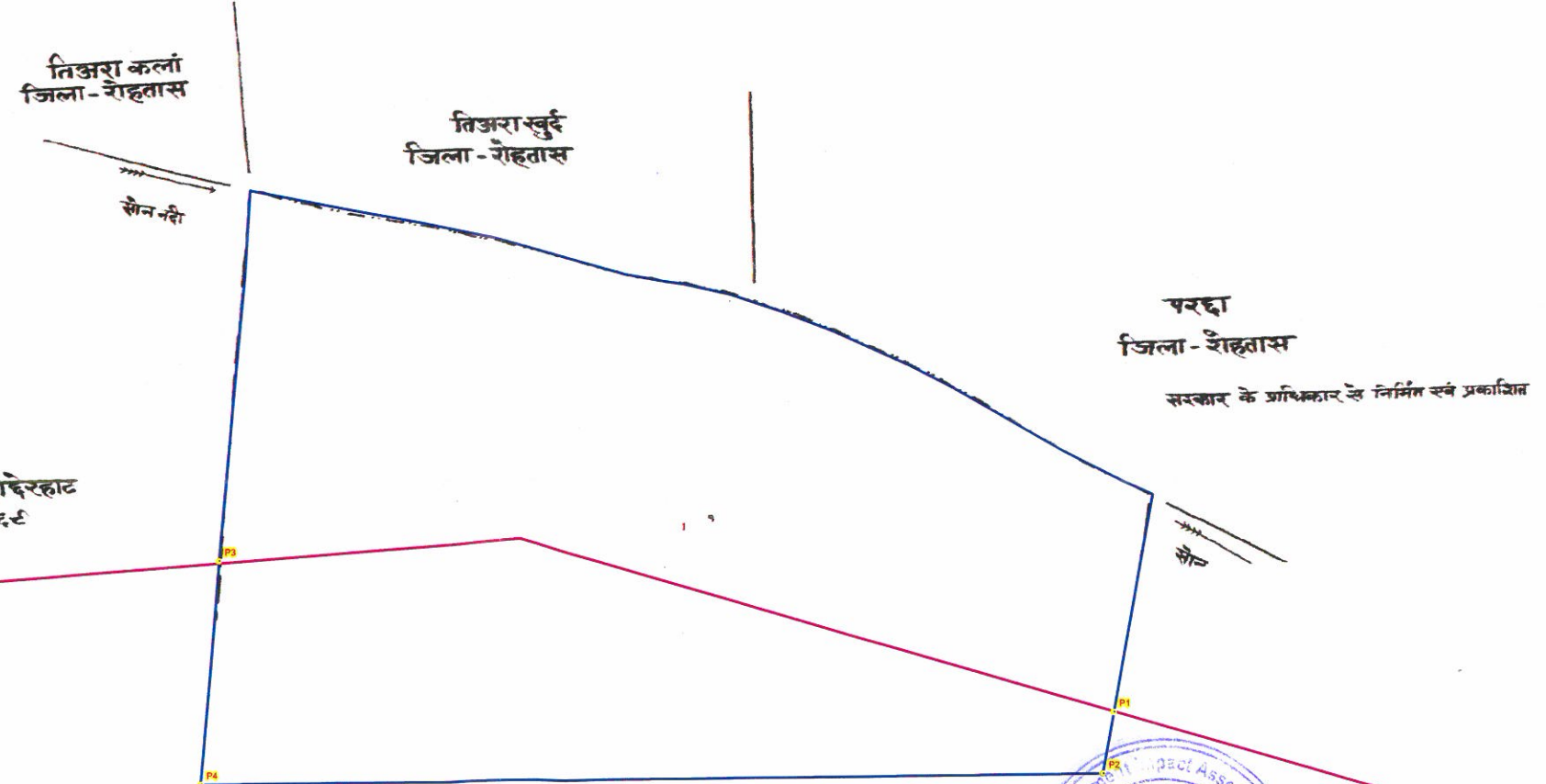
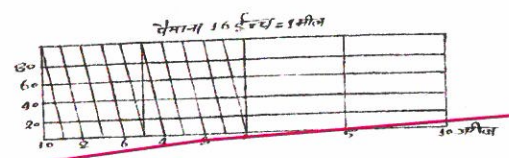
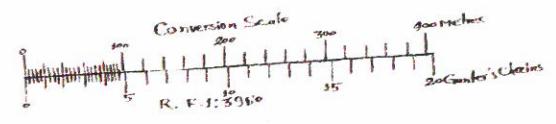
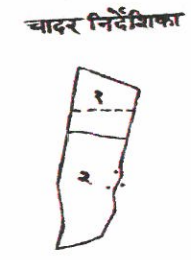
Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of Son - 4, Block - Ketar, District - Garhwa, JHARKHAND



Lohargara
 मशहूर नाम लोहरगाड़ा चादर नम्बर-१
 थाना नम्बर ७०
 राजस्व थाना हुसेनाबाद
 पुलिस थाना भवनाथपुर
 अंचल भवनाथपुर
 जिला गढ़वा
 पैमाना १ इंच = १ मील या १ से.मी = ३३.६० मीटर
 सन् २००७-०८ ई



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
KETAR	LOHARGARA	70	1	1	RIVER	134.7539	
TOTAL AREA						134.7539	

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	166382.167	2713972.874	24° 30' 13.324" N	83° 42' 29.515" E
P2	166368.3848	2713900.951	24° 30' 10.979" N	83° 42' 29.087" E
P3	165424.569	2714182.221	24° 30' 19.377" N	83° 41' 55.366" E
P4	165397.3246	2713920.551	24° 30' 10.862" N	83° 41' 54.622" E

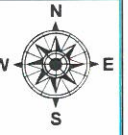
Proposed Area in Ha 213

(Handwritten signature and initials)



- Legend**
- PILLAR POINT
 - PROPOSED GHAT
 - VILLAGE WISE AREA

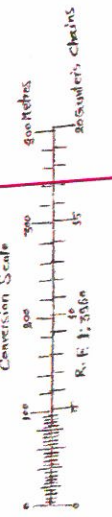
Proposed Ghat of Son - 4 , Block - Ketar, District - Garhwa, JHARKHAND



मिलान चादर नम्बर-१

सरकार के अधिकार से निर्मित एवं प्रकाशित

Meraunichherhat
 मराउनीछहरहाट गांव नम्बर २
 ग्रामा नम्बर ६८
 राजस्व थाना हुमेनावाद
 पुलिस थाना भवनाथपुर
 अंचल भवनाथपुर
 जिला गढ़वा
 पैमाना १ इंच = १ मील या १ से.मी. = ३१.६० मीटर
 सन् २००७-०८ ई

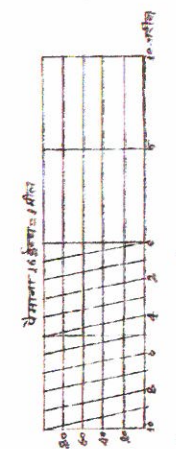
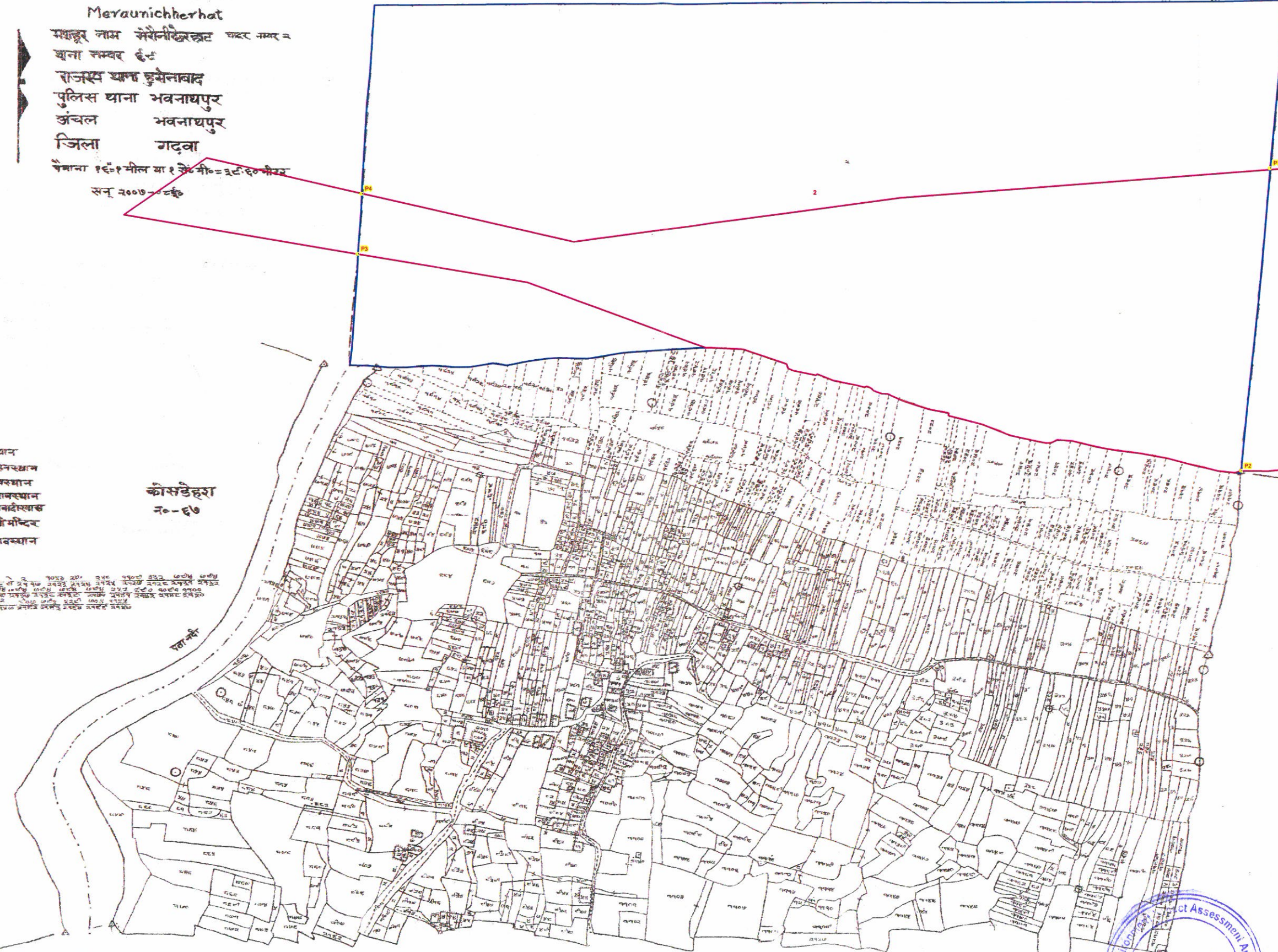


वीहर्गडा
 नं०-७०

- निर्देश
- ३५६ - उद्योगस्थान
 - ४०० - देवस्थान
 - ४७८ - शिक्षणस्थान
 - ६०१ - अनादीस्थान
 - १०३७ - देवी मन्दिर
 - १०४२ - शिवस्थान

कांसडेहडा
 नं०-६७

सर्वेक्षण विवरण: १. सर्वेक्षण क्षेत्र का क्षेत्रफल ३०८६.५६ हे.मी. है। २. सर्वेक्षण क्षेत्र का क्षेत्रफल ३०८६.५६ हे.मी. है। ३. सर्वेक्षण क्षेत्र का क्षेत्रफल ३०८६.५६ हे.मी. है। ४. सर्वेक्षण क्षेत्र का क्षेत्रफल ३०८६.५६ हे.मी. है। ५. सर्वेक्षण क्षेत्र का क्षेत्रफल ३०८६.५६ हे.मी. है। ६. सर्वेक्षण क्षेत्र का क्षेत्रफल ३०८६.५६ हे.मी. है। ७. सर्वेक्षण क्षेत्र का क्षेत्रफल ३०८६.५६ हे.मी. है। ८. सर्वेक्षण क्षेत्र का क्षेत्रफल ३०८६.५६ हे.मी. है। ९. सर्वेक्षण क्षेत्र का क्षेत्रफल ३०८६.५६ हे.मी. है। १०. सर्वेक्षण क्षेत्र का क्षेत्रफल ३०८६.५६ हे.मी. है।



मिलान चादर नम्बर-३



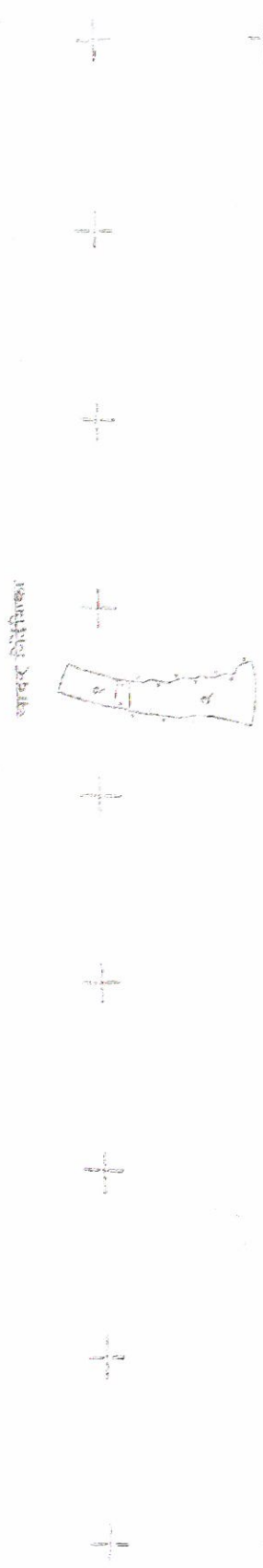
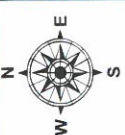
- नियंत्रित नाम का
Legend
- PILLAR POINT
 - ▭ PROPOSED GHAT
 - ▭ VILLAGE WISE AREA

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	165424.569	2714182.221	24°30' 19.377" N	83°41' 55.366" E
P2	165358.3137	2713587.7	24°30' 0.027" N	83°41' 53.520" E
P3	163784.0159	2714062.418	24°30' 14.211" N	83°40' 57.270" E
P4	163794.0471	2714180.287	24°30' 18.045" N	83°40' 57.525" E

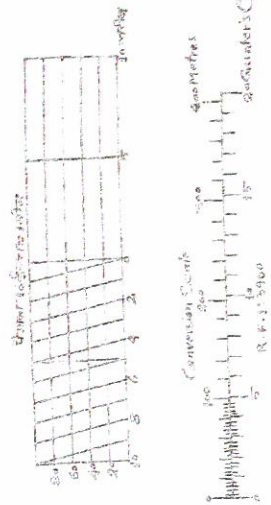
Proposed Area in Ha 213

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
KETAR	MERAUNI CHHERHAT	69	2	2	RIVER	308.5654	
TOTAL AREA						308.5654	

Proposed Ghat of Son - 5, Block - Ketar, District - Garhwa, JHARKHAND

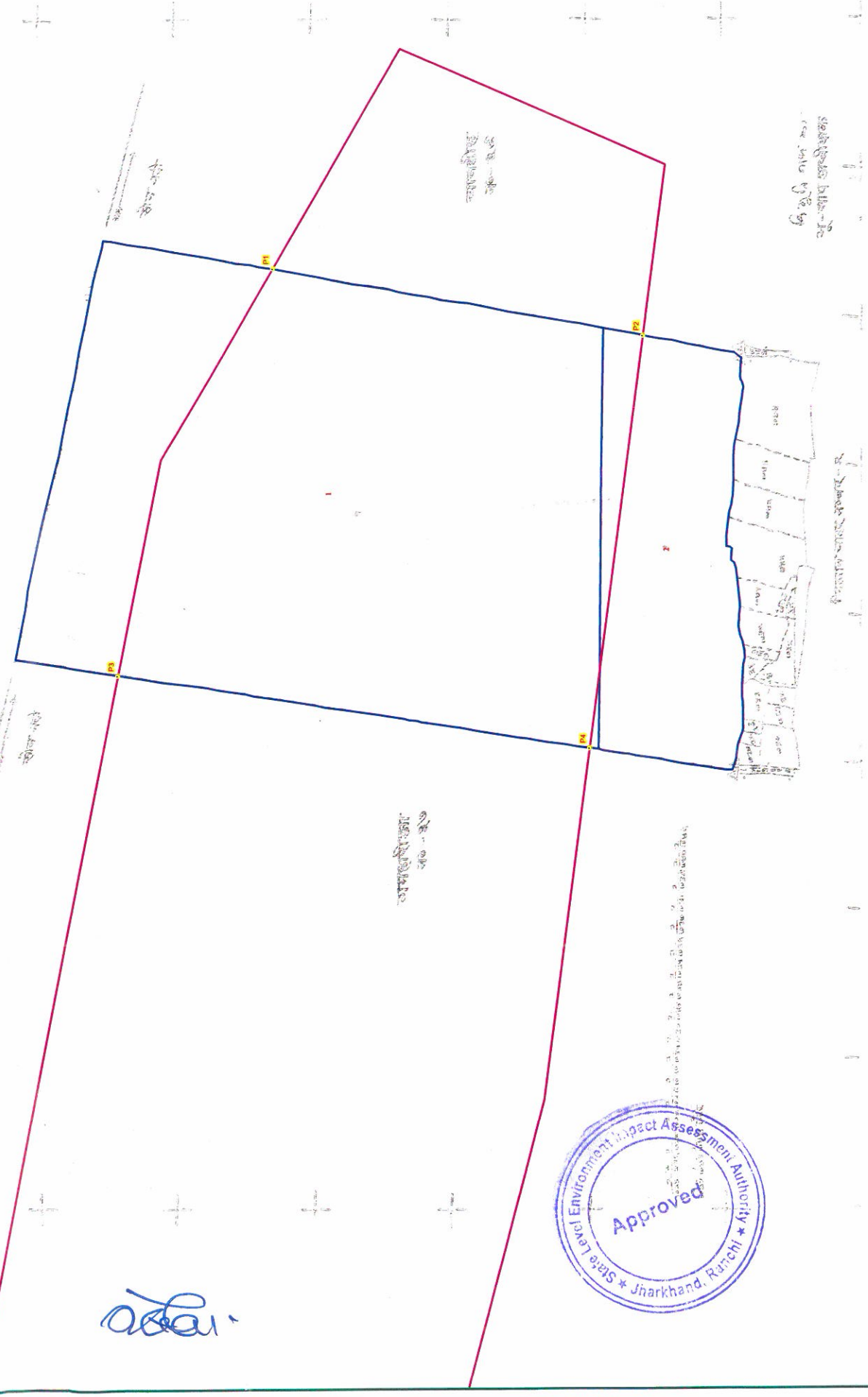


Bidhi
 मधुपुर गाँव
 धरम गाँव
 चरगागाँव
 सुविहार गाँव
 जंजना
 विरवा
 मधुपुर गाँव का १ कि०मी० अक्षांश
 २००७-२००८



अक्षांश के अनुसार के-केटार गाँव

अक्षांश के अनुसार के-केटार गाँव



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
KETAR	BIDHI	38	1	2	RIVER	28.863	
KETAR	BIDHI	38	1	1	RIVER	115.9671	
TOTAL AREA						144.8501	

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	153780.2798	2715340.088	24°30'47.757" N	83°35'1.293" E
P2	153673.0721	2714793.733	24°30'29.938" N	83°34'57.970" E
P3	153232.039	2715583.898	24°30'55.229" N	83°34'41.631" E
P4	153112.8619	2714888.561	24°30'32.565" N	83°34'38.015" E

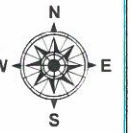
Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Area in Ha 517

Proposed Ghat of Son - 5, Block - Ketar, District - Garhwa, JHARKHAND

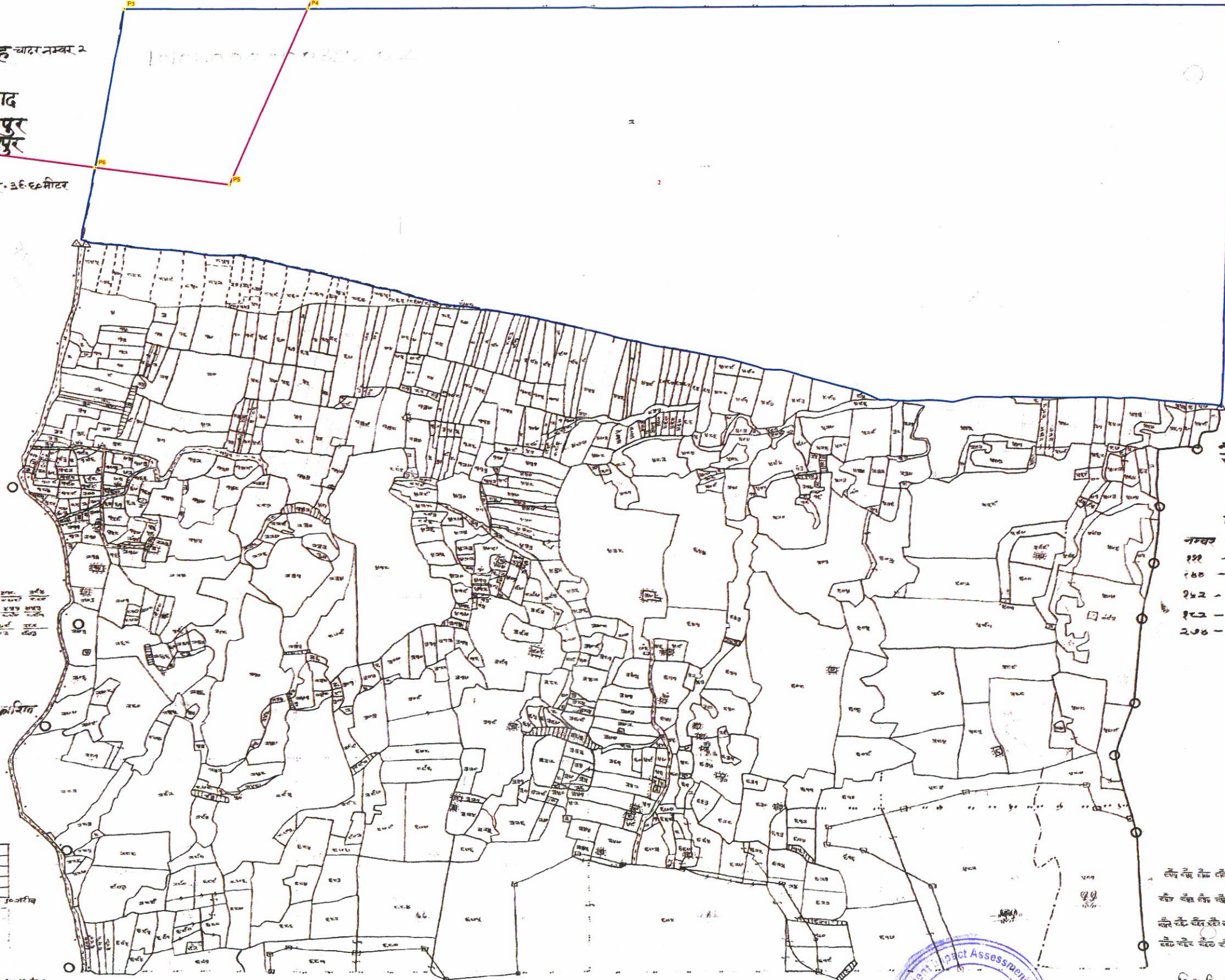
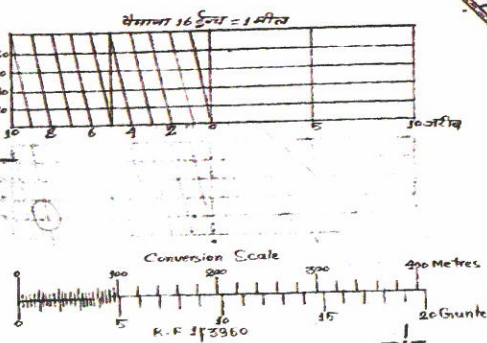
मिळान चादर नम्बर-१



Chandih
 मशहूर नाम चानडीह चादर नम्बर २
 घाना नम्बर ३६
 राजस्वघाना हुसेनाबाद
 पुलिसघाना भवनाथपुर
 अंचल भवनाथपुर
 जिला गढवा
 घेमाना १६ = १ मील या १ से० मीटर = ३६.६० मीटर
 सन् २००७-२००८ ई०

बीजडीह न-३८

सरकार के प्राधिकार से निर्मित एवं प्रकाशित



खरवा न०४०

- निर्देश**
- १११ - देवस्थान
 - १६० - देवस्थान
 - १५२ - देवस्थान
 - १८३ - अच्युतबाबा
 - २७६ - स्कूल

मिळान चादर नम्बर-३

मु. माप अधीक्षक



Legend

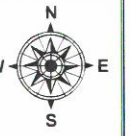
- PILLAR POINT
- ▭ PROPOSED GHAT
- ▭ VILLAGE WISE AREA

BLOCK NAME	VILLAGE NAME	THANA NO	PLOT NO	SHEET NO	LAND TYPE	AREA in Acre	REMARKS
KETAR	CHANDIH	39	2	2	RIVER	299.9388	
						TOTAL AREA	299.9388

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P3	153730.0109	2715091.641	24°30'39.653" N	83°34'59.728" E
P4	154047.588	2715084.187	24°30'39.666" N	83°35'11.000" E
P5	153904.1043	2714754.637	24°30'28.855" N	83°35'6.200" E
P6	153673.0721	2714793.733	24°30'29.938" N	83°34'57.970" E

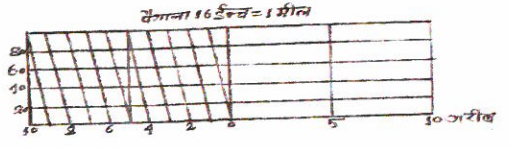
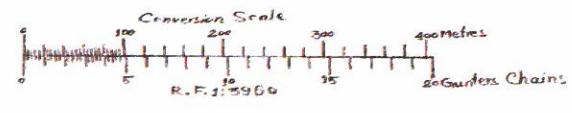
Proposed Area in Ha 517

Proposed Ghat of Son - 5 , Block - Ketar, District - Garhwa, JHARKHAND

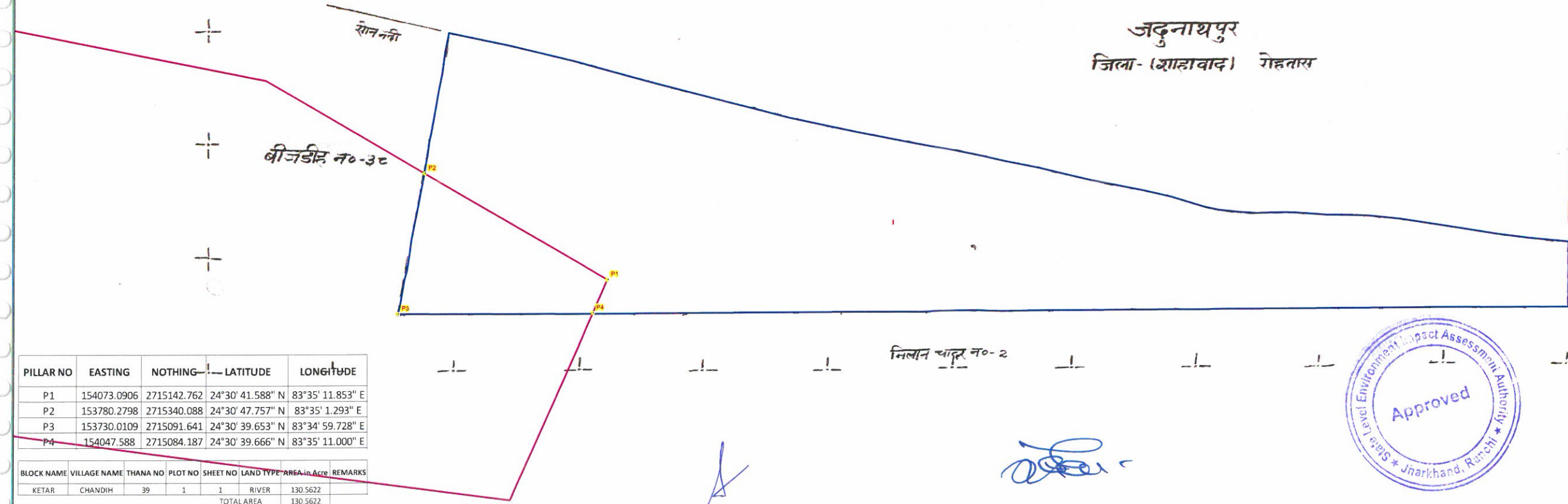


Grid of crosshair markers across the top of the map.

Chandih
 मशहरनाम चानडीह चादर नम्बर ९
 थाना नम्बर ३६
 राजस्व थाना हुसैनाबाद
 पुलिस थाना भवनाथपुर
 अंचल भवनाथपुर
 जिला गढ़वा
 पैमाना १ इंच = १ मील या १ सेक १ मील = ३६.६० मीटर
 सन २००७-२००८ ई०



संस्कार के प्राधिकरण से निर्मित एवं प्रकाशित



नवाडिह कला
 जिला - गेहतास

सन नदी
 ज्वरवा न०-४०

वि.सू.नि. ०१९५/२००८
 अनु-माप अर्थात्सक

निलान चादर न०-२



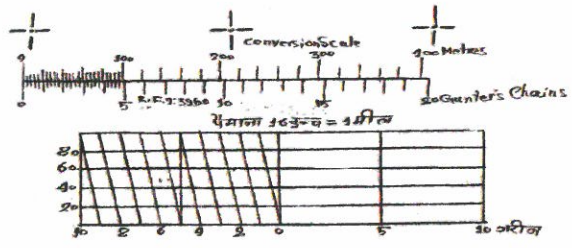
PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	154073.0906	2715142.762	24°30' 41.588" N	83°35' 11.853" E
P2	153780.2798	2715340.088	24°30' 47.757" N	83°35' 1.293" E
P3	153730.0109	2715091.641	24°30' 39.653" N	83°34' 59.728" E
P4	154047.588	2715084.187	24°30' 39.666" N	83°35' 11.000" E

BLOCK NAME	VILLAGE NAME	THANA NO	PLOT NO	SHEET NO	LAND TYPE	AREA in Acre	REMARKS
KETAR	CHANDIH	39	1	1	RIVER	130.5622	
TOTAL AREA						130.5622	

Proposed Area in Ha 517

- Legend**
- PILLAR POINT
 - PROPOSED GHAT
 - VILLAGE WISE AREA

Proposed Ghat of Son - 5, Block - Ketar, District - Garhwa, JHARKHAND



Pachadumar
 मगहूर नाम पाचादुमर चादर नम्बर-३
 थाना नम्बर ३०
 राजस्व थाना हुसेनाबाद
 पुलिस थाना भवनाथपुर
 अंचल भवनाथपुर
 जिला गढ़वा
 पैमाना १ इंच = १ सेंटीमीटर = ३९.६० मीटर
 सन् २००७-०८ ई.

जारादाग
 जिला - रोहतास

बेलदरिया
 जिला - रोहतास
 सरकार के प्राधिकार से निर्मित एवं प्रकाशित

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P5	150763.703	2716370.898	24° 31' 18.776" N	83° 33' 13.373" E
P6	150424.3662	2716494.469	24° 31' 22.511" N	83° 33' 1.226" E
P7	149113.7243	2716606.773	24° 31' 25.090" N	83° 32' 14.631" E
P8	149045.5774	2716429.153	24° 31' 19.270" N	83° 32' 12.372" E

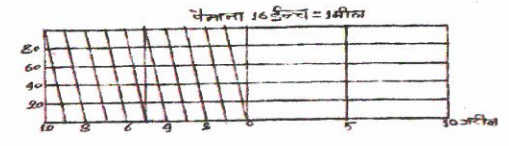
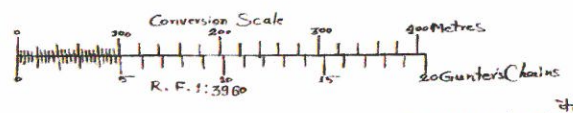
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
KETAR	PACHADUMAR	30	3	130	RIVER	162.9593	
TOTAL AREA						162.9593	



- Legend**
- PILLAR POINT
 - PROPOSED GHAT
 - VILLAGE WISE AREA

Proposed Area in Ha 517

Proposed Ghat of Son - 5 , Block - Ketar, District - Garhwa, JHARKHAND



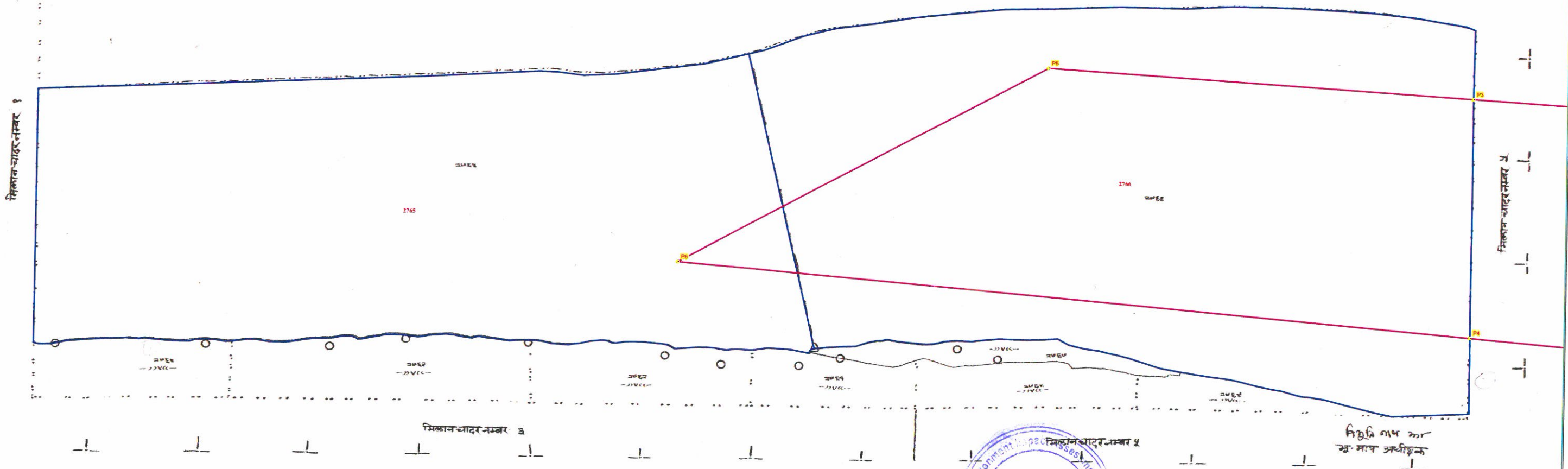
Partikuswani

मशहूर नाम परति कुसवानी चादर नम्बर ४
 थाना नम्बर २८
 राजस्व थाना हुसेनाबाद
 पुलिस थाना भवनाघपुर
 अंचल भवनाघपुर
 जिला गढ़वा
 पैमाना १६:१ मील या १ से० मी० ३६-६० मीटर
 सन् २००७-२००८ ई०

जिला मिरजापुर

जारादाग
 जिला- रोहतास

सरकार के प्राधिकार से निर्मित एवं प्रकाशित



PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P3	146922.9203	2716733.161	24°31' 27.400" N	83°30' 56.802" E
P4	146911.2987	2716258.094	24°31' 11.973" N	83°30' 56.815" E
P5	146149.9565	2716805.027	24°31' 29.098" N	83°30' 29.317" E
P6	145469.9957	2716429.292	24°31' 16.345" N	83°30' 5.535" E

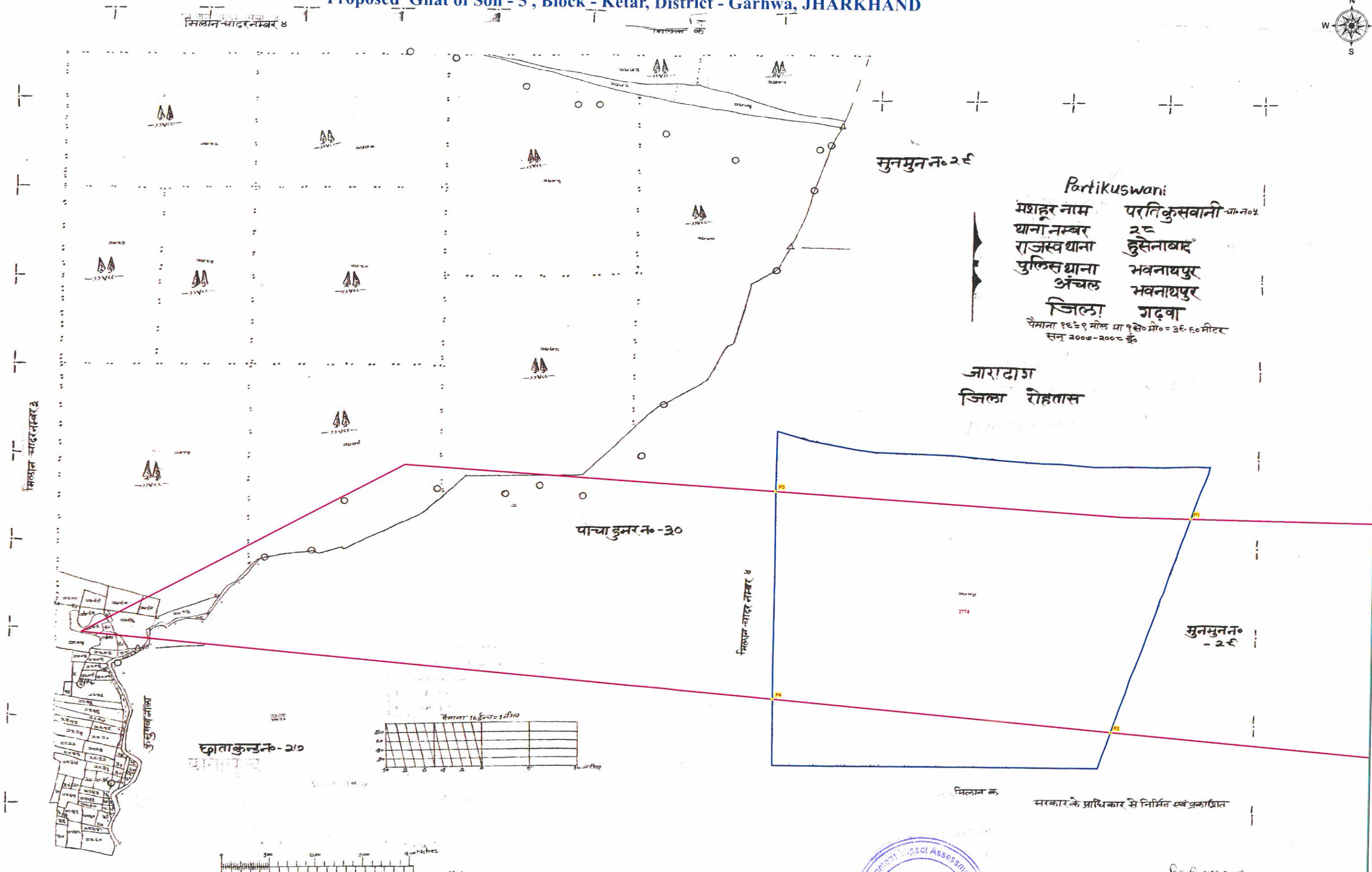
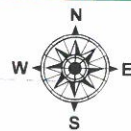
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
KETAR	PARTI KUSWANI	28	4	2765	RIVER	177.656	
KETAR	PARTI KUSWANI	28	4	2766	RIVER	219.5231	
TOTAL AREA						397.1791	



- Legend**
- PILLAR POINT
 - PROPOSED GHAT
 - VILLAGE WISE AREA

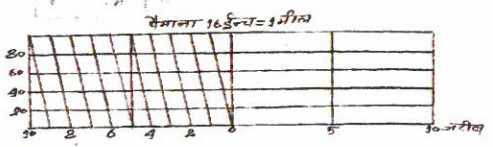
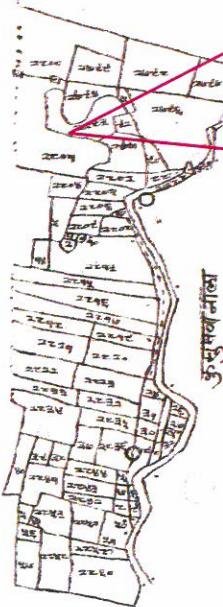
Proposed Area in Ha 517

Proposed Ghat of Son - 5, Block - Ketar, District - Garhwa, JHARKHAND



Partikuswani
 मशहूर नाम परतिकुसवानी चानं०५
 ग्रामानम्बर २८
 राजस्वथाना हुसेनाबाद
 पुलिसथाना भवनाथपुर
 अंचल भवनाथपुर
 जिला गढ़वा
 पैमाना १६=९ मील या ९से० मी०= ३६-६० मीटर
 सन् २०००-२००८ ई०

जारादाग
 जिला रोहतास



PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	147787.5676	2716660.457	24°31' 25.749" N	83°31' 27.539" E
P2	147615.3998	2716174.5	24°31' 9.837" N	83°31' 21.866" E
P3	146922.9203	2716733.161	24°31' 27.400" N	83°30' 56.802" E
P4	146911.2987	2716258.094	24°31' 11.973" N	83°30' 56.815" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA In Acre	REMARKS
KETAR	PARTI KUSWANI	28	5	2774	RIVER	138.9924	
						TOTAL AREA	138.9924



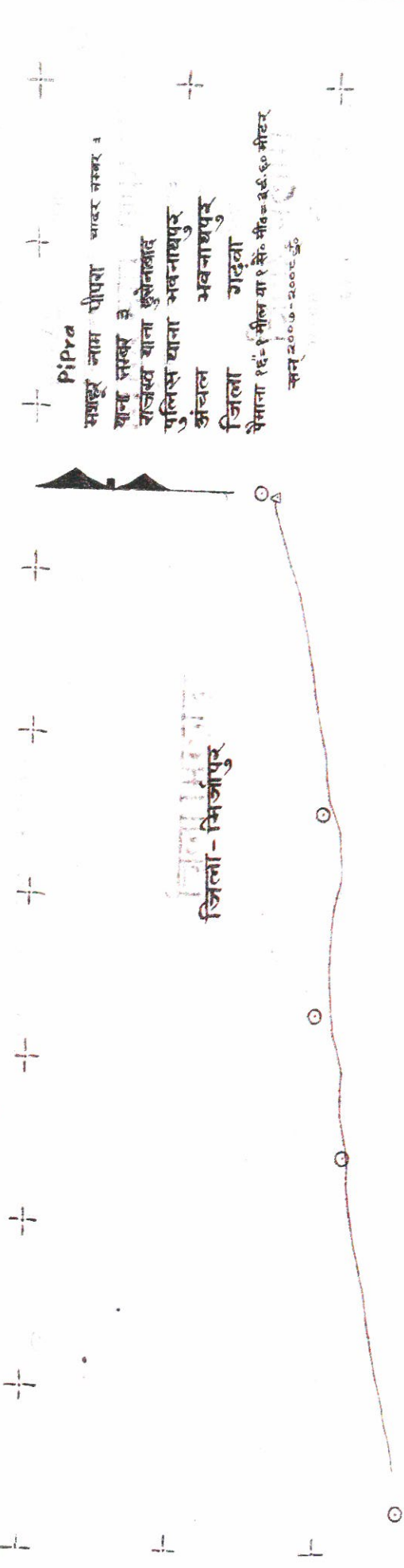
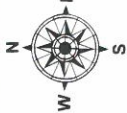
सरकारके प्राधिकार से निर्मित एवं प्रकाशित

मशहूर नाम परतिकुसवानी चानं०५
 ग्रामानम्बर २८
 राजस्वथाना हुसेनाबाद

Legend
 PILLAR POINT
 PROPOSED GHAT
 VILLAGE WISE AREA

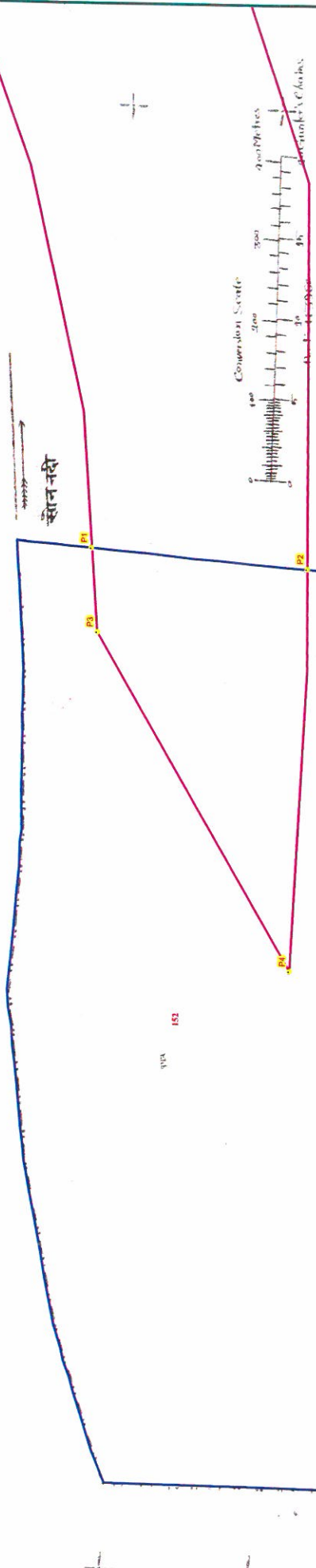
Proposed Area in Ha 517

Proposed Ghat of Son - 6, Block - Kharaundi, District - Garhwa, JHARKHAND



Pipra भारत नम्बर 4
 सञ्चालन नाम पीपरा
 याना सञ्चालन 3
 राजस्व याना कुसेनकाट
 पुलिस याना अबनाथपुर
 अंचल अबनाथपुर
 जिला राउना
 पैमाना 1:10000
 सन् 2000-2000 ई

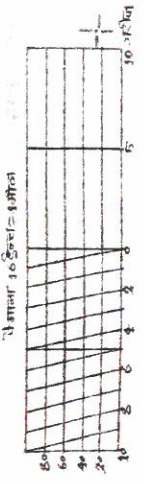
जिला - मिर्जापुर



निर्देश
 नम्बर स्थान
 180 - देवीस्थान
 220 - ब्रह्मदेव स्थान
 300 - शैर कुँवर स्थान
 400 - अबादी स्थान

परमि कुँवरानी
 नं-20

सरकार के अधिकार से निर्मित एवं अंकित



1. 2. 3. 4. 5. 6. 7. 8. 9. 10.
 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.

मिर्जापुर 200
 भू-माप अधीन

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PILOT NO	LAND TYPE	AREA IN Ha	REMARKS
1	PIPRA	3	3	3	RIVER	134.974	
						TOTAL AREA	134.974

PILLAR NO	EASTING	NORTHING	NOTHING	LATITUDE	LONGITUDE
P1	141967.6841	2715960.902	24°30'58.246" N	83°28'1.728" E	
P2	141937.9604	2715666.7	24°30'48.674" N	83°28'0.941" E	
P3	141862.6707	2715953.507	24°30'57.919" N	83°27'58.009" E	
P4	141434.2551	2715691.043	24°30'49.045" N	83°27'43.053" E	

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Area in Ha 56.90



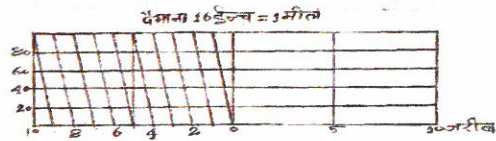
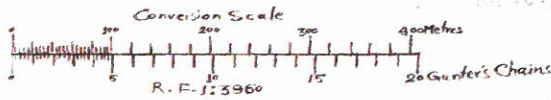
Proposed Ghat of Son - 6 , Block - Ketar, District - Garhwa, JHARKHAND

ग्रामानुसंख्य २८
राजस्व ग्रामा हुसेनाबाद

Partikuswani

मशहूर नाम परतिकुसवानी चादरसंख्य २
ग्रामानुसंख्य २८
राजस्व ग्रामा हुसेनाबाद
पुलिस थाना भवनाथपुर
अंचल भवनाथपुर
जिला गढ़वा

पैमाना १ इंच = १ मील या २ इंच = २ मील
सन् २००७-२००८ ई०



निर्देशांक
नम्बर स्थान
१०८ देवीस्थान
३०० पश्चिमी विद्यालय
४४० देवस्थान
५३१ अवादी खास
५५८ देवीस्थान
५६० शिवस्थान

सरकार के प्राधिकार से निर्मित एवं प्रकाशित



PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P10	142892.8859	2716205.804	24°31' 6.962" N	83°28' 34.322" E
P11	143273.91	2716197.898	24°31' 7.021" N	83°28' 47.845" E
P12	143271.8112	2716046.667	24°31' 2.112" N	83°28' 47.907" E
P13	141937.9604	2715666.7	24°30' 48.674" N	83°28' 0.941" E
P14	141967.6841	2715960.902	24°30' 58.246" N	83°28' 1.728" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
KETAR	PARTI KUSWANI	28	2	26	RIVER	165.5128	
						TOTAL AREA	165.5128



Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

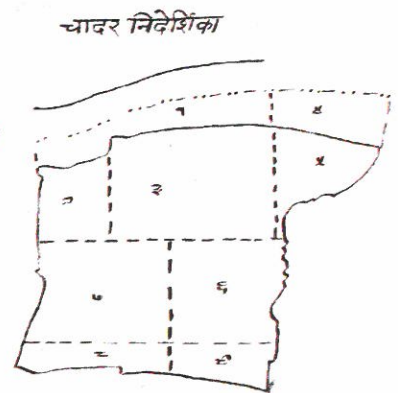
Area Reduced
[Handwritten signature]

Proposed Area in Ha 56.90

Proposed Ghat of Son - 6 , Block - Ketar, District - Garhwa, JHARKHAND



निर्देश
 नम्बर स्थान
 २८० देवस्थान
 २०२३ डीहवार स्थान
 ३२२४ महादेवस्थान

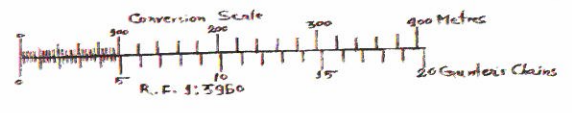


Partikuswani
 मशहूर नाम परति कुसवानी चादर नम्बर १
 घाना नम्बर २८
 राजस्व घाना हुसेनाबाद
 पुलिस घाना भवनाथपुर
 अंचल भवनाथपुर
 जिला गढ़वा
 पैमाना १ ई. = १ मील या १ से.मी. = ३६.६० मीटर
 सन् २००७-२००८ ई.



जिला-मिरजापुर

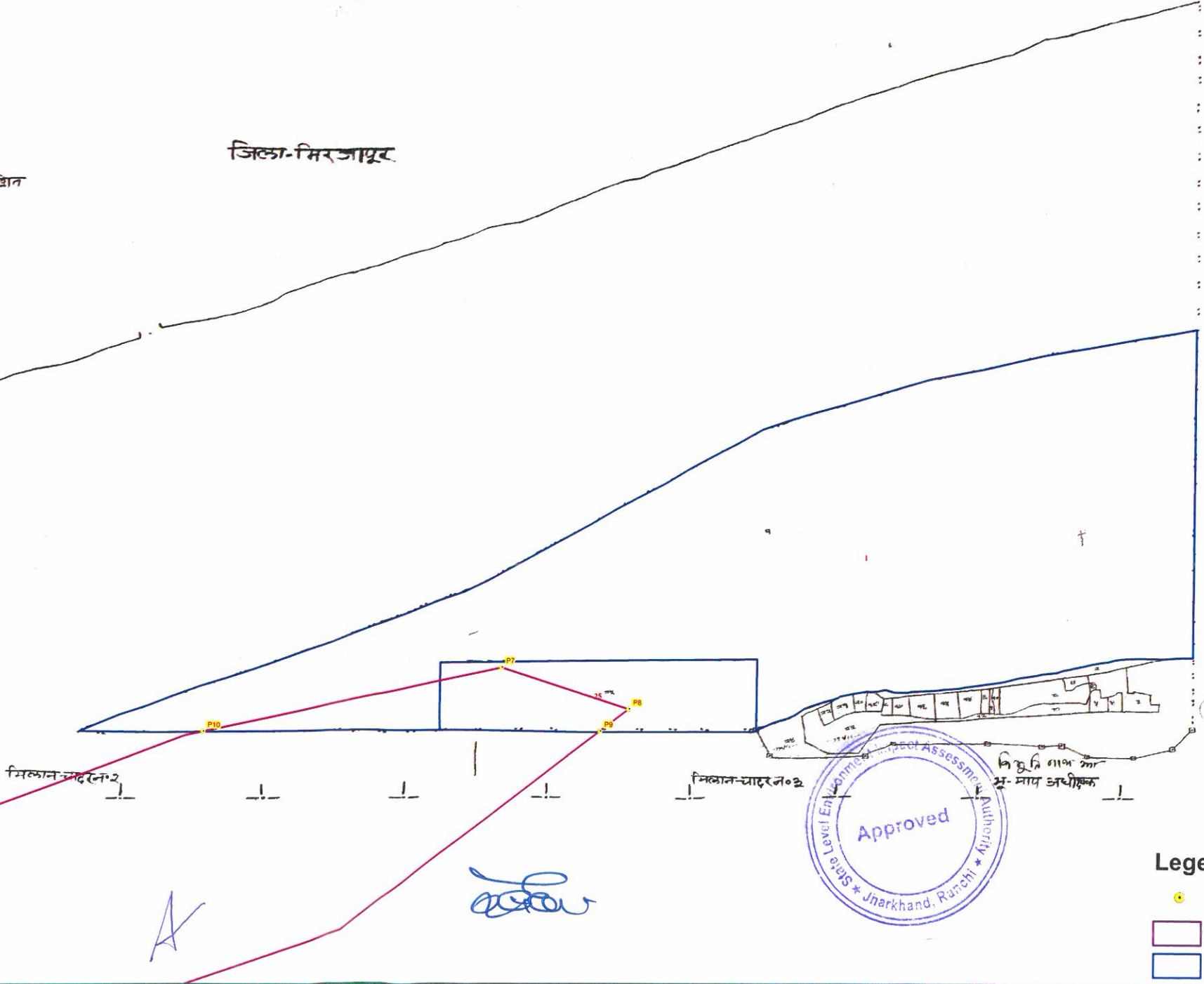
सूचकार के प्राधिकार से निर्मित एवं प्रकाशित



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
KETAR	PARTI KUSWANI	28	1	1	RIVER	109.2764	
KETAR	PARTI KUSWANI	28	1	25	RIVER	11.9441	
TOTAL AREA						121.2205	

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P7	143317.062	2716292.657	24°31' 10.132" N	83°28' 49.290" E
P8	143495.1759	2716223.862	24°31' 8.047" N	83°28' 55.670" E
P9	143453.9377	2716191.147	24°31' 6.951" N	83°28' 54.237" E
P10	142892.8859	2716205.804	24°31' 6.962" N	83°28' 34.322" E

Proposed Area in Ha 56.90



Legend

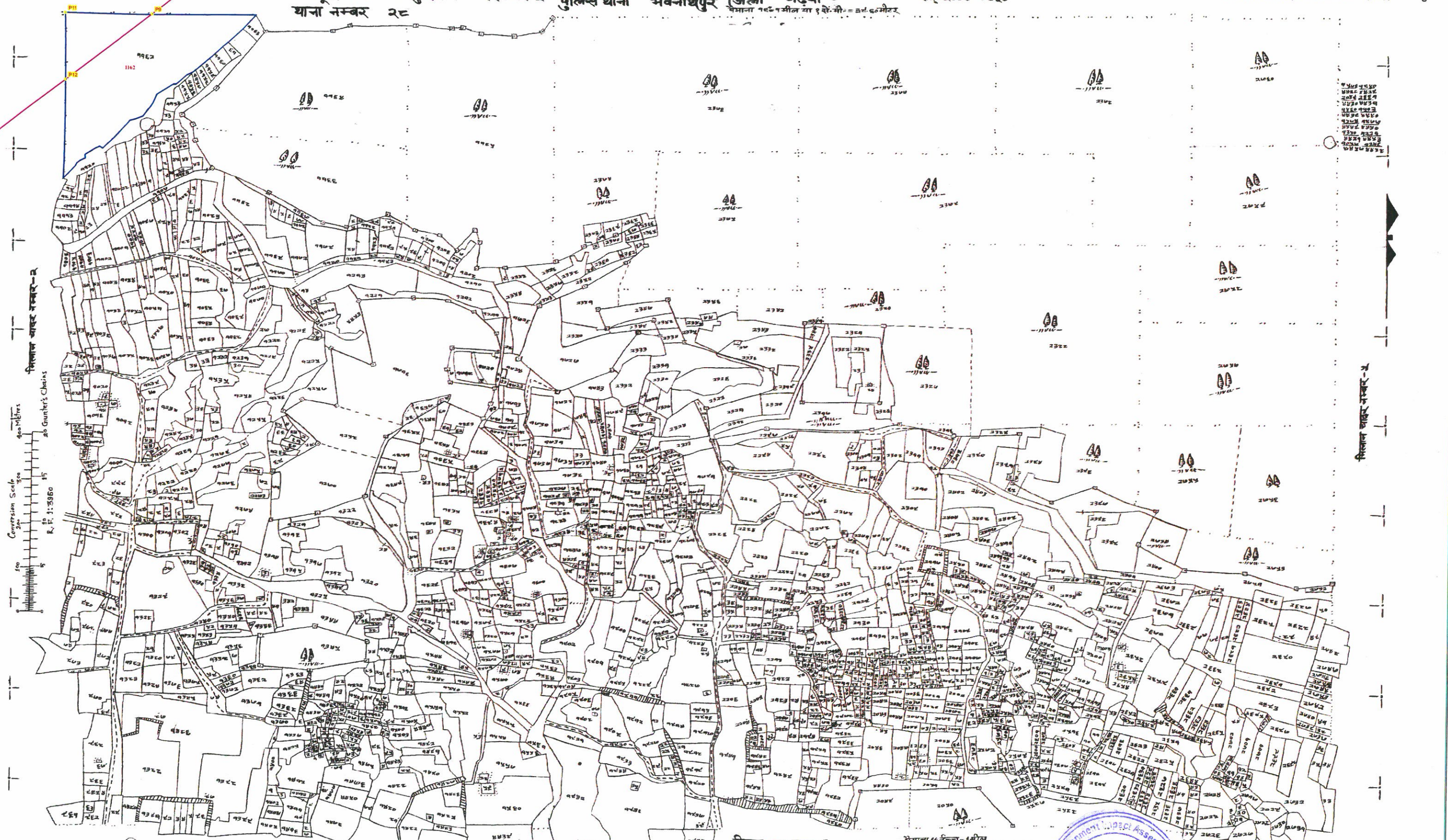
- PILLAR POINT
- ▭ PROPOSED GHAT
- ▭ VILLAGE WISE AREA

Proposed Ghat of Son - 6 , Block - Ketar, District - Garhwa, JHARKHAND



मिलान चादर नम्बर-१
 Parti Kuswani
 मराहूर नाम परतिकुसवानी चादर नम्बर-३
 राजस्व थाना हुसैनाबाद
 पुलिस थाना भवनाथपुर
 अंचल भवनाथपुर
 जिला गढ़वा
 सन् २००७-०८ई०
 मिलान चादर नम्बर-२
 सर्वकार के अधिकार से निर्मित एवं प्रकृषित

7571
 16-7-09



PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P9	143453.9377	2716191.147	24°31' 6.951" N	83°28' 54.237" E
P11	143273.91	2716197.898	24°31' 7.021" N	83°28' 47.845" E
P12	143271.8112	2716046.667	24°31' 2.112" N	83°28' 47.907" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
KETAR	PARTI KUSWANI	28	3	1162	RIVER	18.2668	
						TOTAL AREA	18.2668

Proposed Area in Ha 56.90

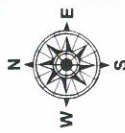


Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

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Proposed Ghat of Son - 7, Block - Kharaundhi, District - Garhwa, JHARKHAND



Chandna

मशहूर नाम चन्दना चाकर नम्बर-१
 थाना नम्बर २
 राजस्व थाना हुसेनाबाद
 पुलिस थाना भवनाथपुर
 अंचल भवनाथपुर
 जिला गढ़वा
 पैमाना १ इंच = १ मील या १ से.मी. = ३.६० मीटर
 सन् २०००-२००० ई.



निर्देश
 नम्बर स्थान
 ७४ - अनादीकृत
 १३५ - देवीस्थान

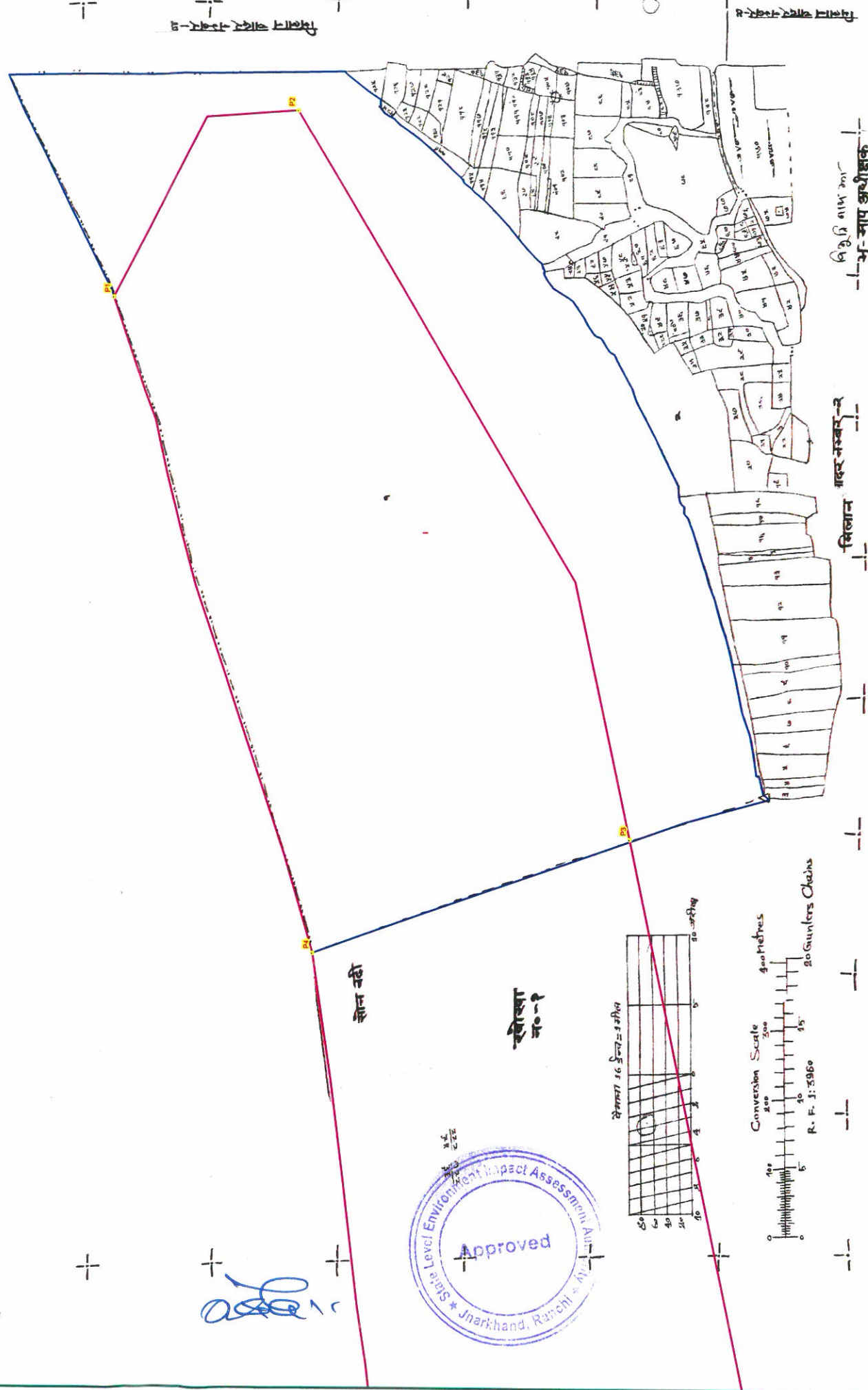
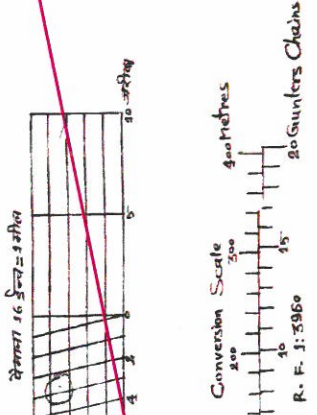
सर्वकार के अधिकार से निर्मित एवं प्रकाशित

जिला -सिर्वापुर



सोन नदी

खोखा नदी



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
KHARAUNDHI	CHANDNA	2	1	1	RIVER	211.3105	
					TOTAL AREA	211.3105	

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	137524.6067	2715158.348	24°30' 28.486" N	83°25' 24.875" E
P2	137786.6328	2714865.656	24°30' 19.209" N	83°25' 34.437" E
P3	136724.4501	2714360.547	24°30' 1.924" N	83°24' 57.232" E
P4	136571.7936	2714859.846	24°30' 17.997" N	83°24' 51.359" E

Proposed Area in Ha 154

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

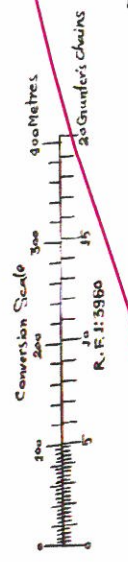
Proposed Ghat of Son - 7, Block - Kharaundhi, District - Garhwa, JHARKHAND



Khokha
 सखार नाम खोखा खादर नम्बर-३
 थाना नम्बर १
 राजस्व थाना हुसेनाबाद
 पुलिस थाना भवनाथपुर
 जिला भवनाथपुर
 गढ़वा
 भेगाक १९५१ मील या १ से० मी० = ३.२६१ किलोमीटर
 सन् २०१७ - २००८ ई०

जिला - सिर्जापुर

विधिगा
 नम्बर स्थान
 २३० - अबादीवास
 २२५ - विहवार स्थान



१५५ ३०५ ३१० ३१५ ३२० ३२५ ३३० ३३५ ३४० ३४५ ३५० ३५५ ३६० ३६५ ३७० ३७५ ३८० ३८५ ३९० ३९५ ४०० ४०५ ४१० ४१५ ४२० ४२५ ४३० ४३५ ४४० ४४५ ४५० ४५५ ४६० ४६५ ४७० ४७५ ४८० ४८५ ४९० ४९५ ५०० ५०५ ५१० ५१५ ५२० ५२५ ५३० ५३५ ५४० ५४५ ५५० ५५५ ५६० ५६५ ५७० ५७५ ५८० ५८५ ५९० ५९५ ६०० ६०५ ६१० ६१५ ६२० ६२५ ६३० ६३५ ६४० ६४५ ६५० ६५५ ६६० ६६५ ६७० ६७५ ६८० ६८५ ६९० ६९५ ७०० ७०५ ७१० ७१५ ७२० ७२५ ७३० ७३५ ७४० ७४५ ७५० ७५५ ७६० ७६५ ७७० ७७५ ७८० ७८५ ७९० ७९५ ८०० ८०५ ८१० ८१५ ८२० ८२५ ८३० ८३५ ८४० ८४५ ८५० ८५५ ८६० ८६५ ८७० ८७५ ८८० ८८५ ८९० ८९५ ९०० ९०५ ९१० ९१५ ९२० ९२५ ९३० ९३५ ९४० ९४५ ९५० ९५५ ९६० ९६५ ९७० ९७५ ९८० ९८५ ९९० ९९५ १०००

कोन नदी

खरना न०-२

सरकार के अधिकार के निर्मित एवं प्रकृतिगत

आ.सि. नि.स. न०.१
 भू-माप आधीशक



मिलान खादर नम्बर-४

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PILOT NO	LAND TYPE	AREA in Acre	REMARKS
KHARAUNDHI	KHOKHA	1	3	310	RIVER	218.7666	
TOTAL AREA						218.7666	

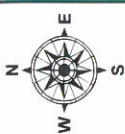
PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P3	135522.3541	2714100.489	24° 29' 52.470" N	83° 24' 14.843" E
P4	135507.2822	2714635.039	24° 30' 9.803" N	83° 24' 13.814" E
P5	135236.1151	2714502.548	24° 30' 5.274" N	83° 24' 4.320" E
P6	134844.8259	2713953.963	24° 29' 47.142" N	83° 23' 50.952" E

Legend

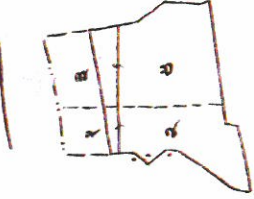
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Area in Ha 154

Proposed Ghat of Son - 7, Block - Kharaundhi, District - Garhwa, JHARKHAND

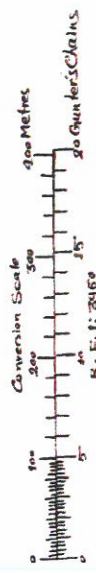


बादर विवेचिका



Khokha

मस्रहूर नाम खोखवा बादर नम्बर-१
 याना नम्बर १
 राजस्व याना हुसेनाबाद
 पुलिस याना भवनाथपुर
 अंचल भवनाथपुर
 जिला गढ़वा
 पैमाना १ इंच = १ मील या १ से. मी. = ३.२८.९० मीटर
 खन् २०००-२००८ ई०



NO. ६३०
 ६३०
 ६३०

सरकार के अधिकार से निर्मित एवं प्रकाशित

भू-माप अधीक्षक

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
KHARAUNDHI	KHOKHA	1	1	1	RIVER	166.7892	
						TOTAL AREA	166.7892

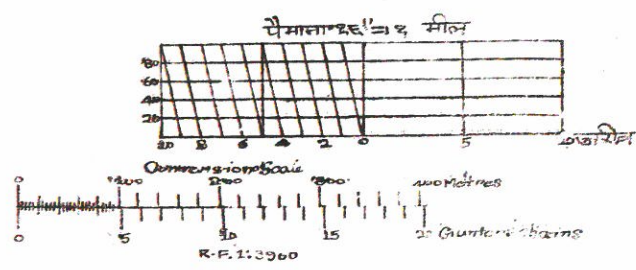
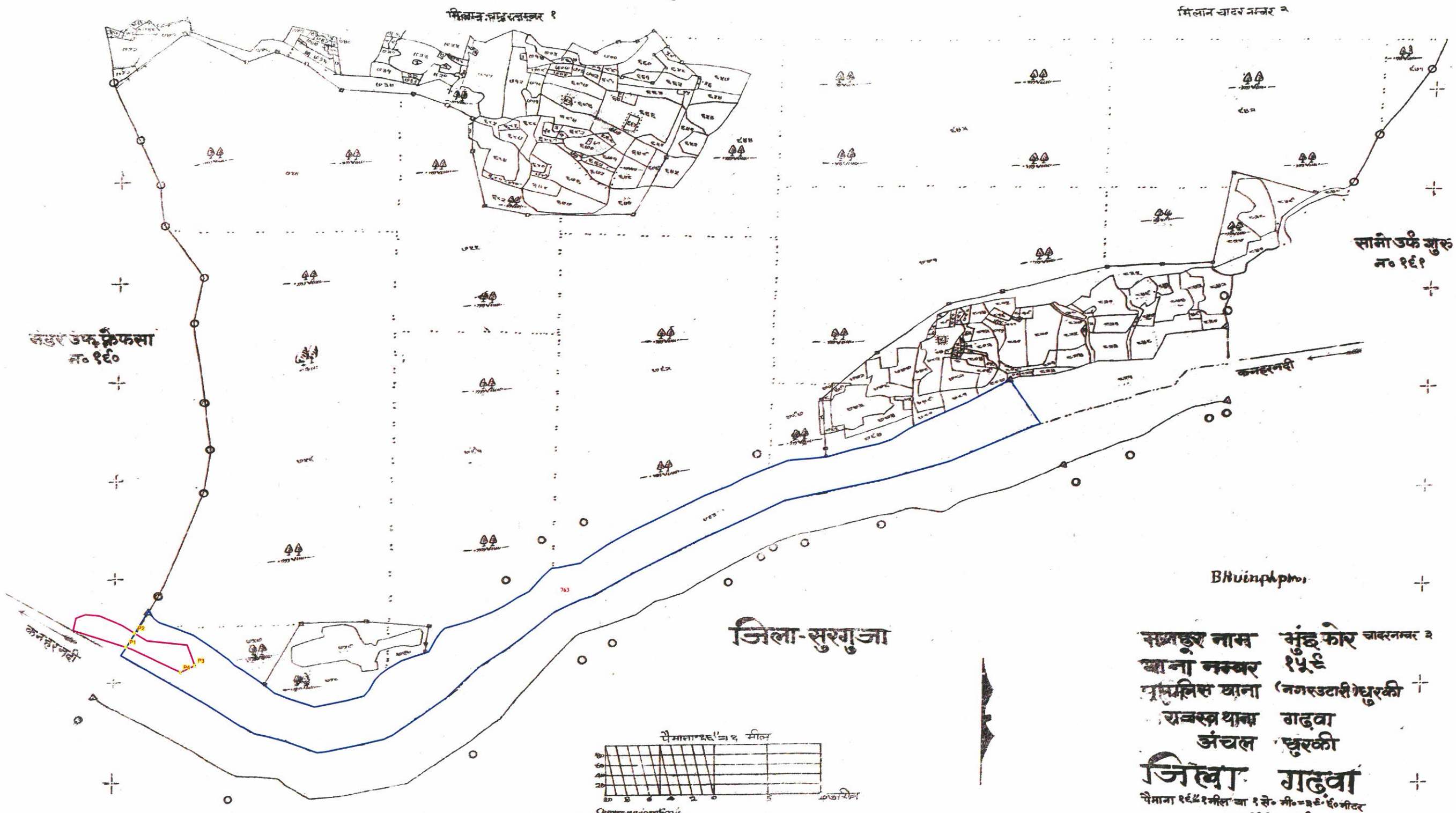
PILLAR NO	EASTING	NORTHING	NOTHING	LATITUDE	LONGITUDE
P1	136571.7936	2714859.846		24° 30' 17.997" N	83° 24' 51.359" E
P2	136724.4501	2714360.547		24° 30' 1.924" N	83° 24' 57.232" E
P3	135522.3541	2714100.489		24° 29' 52.470" N	83° 24' 14.843" E
P4	135507.2822	2714635.039		24° 30' 9.803" N	83° 24' 13.814" E

Proposed Area in Ha 154

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of Kanhar -1 , Block - Dhurki, District - Garhwa, JHARKHAND



सहोर नाम भुंढ फोर चादरनम्बर ३
 खाना नम्बर १५६
 प्लानिस खाना (नगरउदारी) धुरकी
 राबस्त्र थाना गढ़वा
 अंचल धुरकी
जिला गढ़वा
 पैमाग १६६१मील का १ से० मी०=३६०६०मीटर
 सन् १६६२-६३ ई०

सरकार के प्राधिकार से निर्मित एवं प्रकाशित

भू-माप अधीक्षक

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	128393.2416	2669895.346	24°5' 52.000" N	83°20' 43.237" E
P2	128409.342	2669923.456	24°5' 52.925" N	83°20' 43.780" E
P3	128520.6372	2669857.186	24°5' 50.869" N	83°20' 47.776" E
P4	128493.7068	2669843.627	24°5' 50.406" N	83°20' 46.836" E

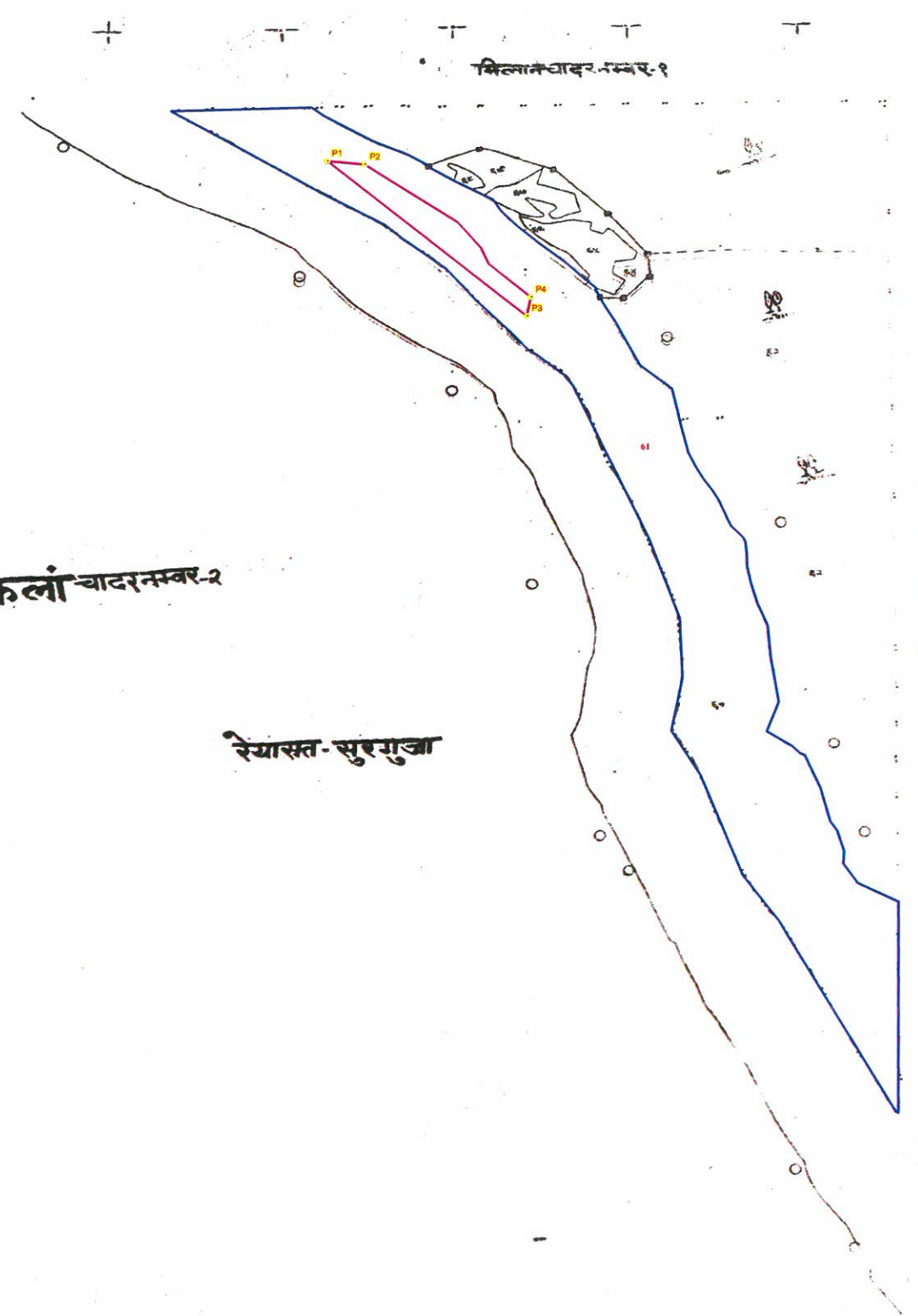
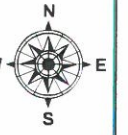
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	LAND TYPE	PLOT NO	AREA in Acre	REMARKS
DHURKI	BHUINPHOR	159	3	RIVER	763	39.7089	
						TOTAL AREA	39.7089

Proposed Area in Ha 0.89



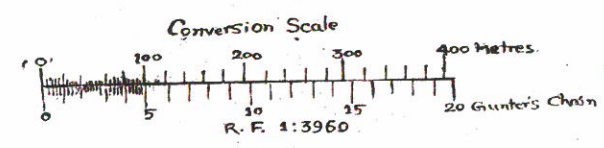
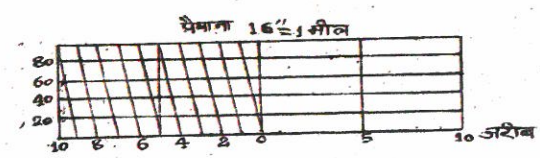
- Legend**
- PILLAR POINT
 - ▭ PROPOSED GHAT
 - ▭ VILLAGE WISE AREA

Proposed Ghat of Kanhar - 2 , Block - Dhurki, District - Garhwa, JHARKHAND



Libra alias Paras Pani kalan
 मशहूर नाम लिबराडर्फपरासपानीकला चादर नम्बर-२
 थाना नम्बर १६४
 पुलिस थाना (नगर डटारी) धुरकी
 राजस्व थाना गढ़वा
 अंचल धुरकी
जिला गढ़वा
 पैमाना १ इंच = १ मील या १ सें. मी = ३ इंच. ६० मीटर
 सन् १९९९-२००० ई०

रेगिस्तान-सुरगुजा



सरकारके प्राधिकार से निर्मित एवं प्रकाशित

[Signature]
 भू माय सहायक

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	133729.7067	2669399.884	24° 5' 40.405" N	83° 23' 52.331" E
P2	133773.7514	2669394.898	24° 5' 40.280" N	83° 23' 53.893" E
P3	133958.8646	2669197.813	24° 5' 34.039" N	83° 24' 0.616" E
P4	133964.0663	2669221.736	24° 5' 34.819" N	83° 24' 0.778" E

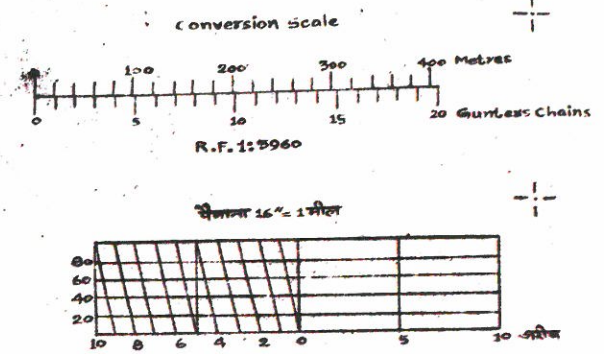
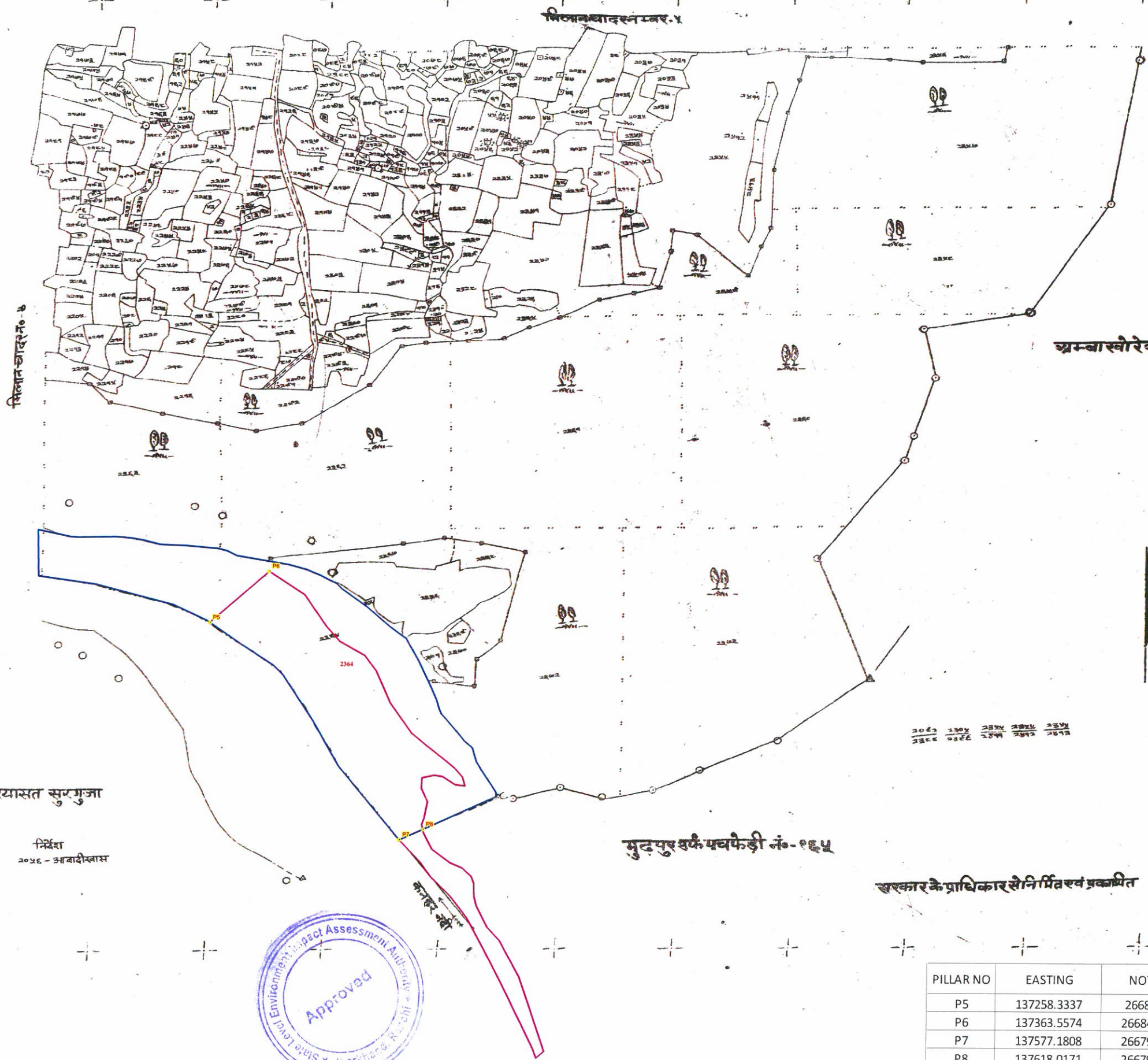
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	LAND TYPE	PLOT NO	AREA in Acre	REMARKS
DHURKI	LIBRA ALIAS PARAS PANI KALAN	164	2	RIVER	61	36.8799	
TOTAL AREA						36.8799	

Proposed Area in Ha 0.82



- Legend**
- PILLAR POINT
 - PROPOSED GHAT
 - VILLAGE WISE AREA

Proposed Ghat of Kanhar - 3 , Block - Dhurki, District - Garhwa, JHARKHAND



Libra alias Paras Pani Kalan
 मशहूर नाम लिबराई फ्यासपानी कलान नं-१६६
 ग्रामानम्बर १६६
 पुलिस थाना (नगर बटारी) धुरकी
 राजस्व थाना गढ़वा
 अंचल धुरकी
जिला गढ़वा
 पैमाना १:६ = १ मील या १ सें.मी = ३०.६ - ३० मीटर
 सन् १९९९-२००० ई.

सरकार के प्राधिकार से निर्मित एवं प्रकाशित



PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P5	137258.3337	2668333.37	24° 5' 8.723" N	83° 25' 58.031" E
P6	137363.5574	2668427.104	24° 5' 11.852" N	83° 26' 1.666" E
P7	137577.1808	2667920.013	24° 4' 55.571" N	83° 26' 9.673" E
P8	137618.0171	2667938.743	24° 4' 56.213" N	83° 26' 11.100" E

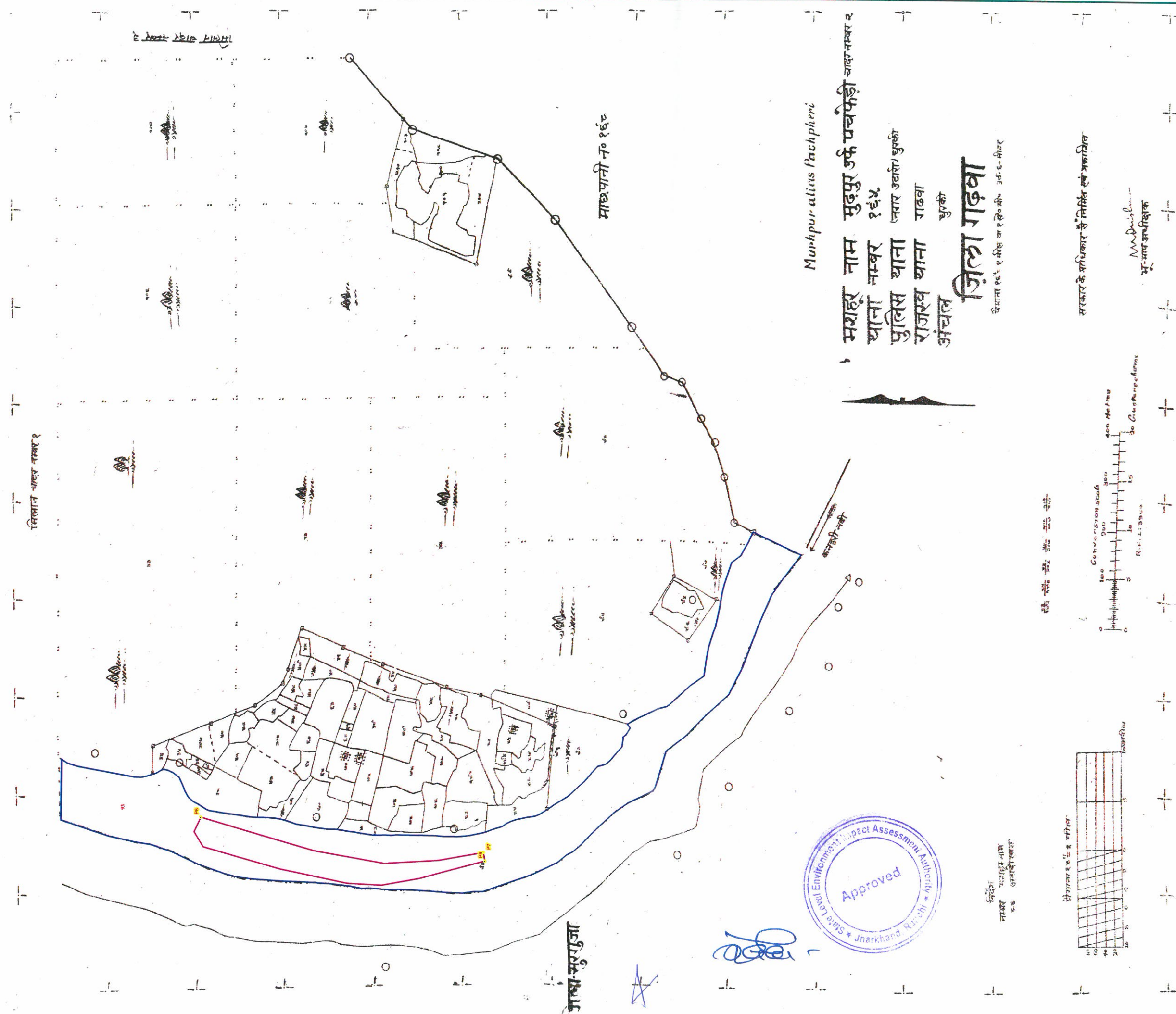
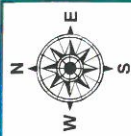
Legend
 ● PILLAR POINT
 [Pink Line] PROPOSED GHAT
 [Blue Line] VILLAGE WISE AREA

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	LAND TYPE	PLOT NO	AREA in Acre	REMARKS
DHURKI	LIBRA ALIAS PARAS PANI KALAN	164	6	RIVER	2364	36.6022	
TOTAL AREA						36.6022	

Proposed Area in Ha 15.5

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Proposed Ghat of Kanhar - 4, Block - Dhurki, District - Garhwa, JHARKHAND



जिला सुरुजा

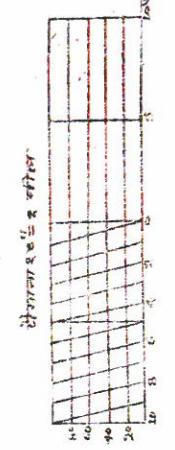
माछपानी न० १६८



निर्देश
नक्शा संशुद्धि मात्र
ए.क. उपाधीकरण

Murhpur alias Pachpheri
 मशहर नाम मुदपुर उर्फ पचफेड़ी चाकर नम्बर २
 थाना नम्बर १६५
 पुलिस थाना (नगर उवारी) धुरकी
 राजस्व थाना राठवा
 अंचल धुरकी
जिला गढ़वा
 जिला गढ़वा १ मील का १ से.मी. अं. ६-मीटर

सर्वेक्षण का क्षेत्र का नक्शा



सरकार के अधिकार से निर्मित एवं प्रकाशित

मू-माप उपरिष्ठिक

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P6	137778.6962	2666123.255	24°3'57.428" N	83°26'18.409" E
P5	137717.9076	2666119.436	24°3'57.254" N	83°26'16.264" E
P7	137692.6618	2665489.068	24°3'36.776" N	83°26'15.937" E
P8	137675.4667	2665485.797	24°3'36.655" N	83°26'15.332" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	LAND TYPE	PLOT NO	AREA in Acre	REMARKS
DHURKI	MURHPUR ALIAS PACHPHERI	165	2	RIVER	93	52.3373	
						TOTAL AREA	52.3373

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Area in Ha 2.99

Proposed Ghat of Kanhar - 5, Block - Bhandria, District - Garhwa, JHARKHAND



Dhasni

मशहर नाम धसनी
 थाना नम्बर १४४
 पुलिस थाना भन्करी
 राजस्व थाना रंका
 अंचल भन्करी

ज़िला गढ़वा

सैमाजा १६ फुटच = १ किलो
 लम् १०००० - ४३३०

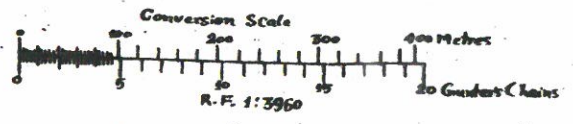
जनेवा न० १४३

वायाखुरा न० १४७

जिला सुरगुजा

निर्देश
 नम्बर मशहर नाम
 २१८ देवस्थान

१०० २०० ३०० ४०० ५०० ६००



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	LAND TYPE	PLOT NO	AREA in Acre	REMARKS
BHANDARIA	DHASNI	144	1	RIVER	1	25.5659	
						TOTAL AREA	25.5659

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	167437.2175	2631682.485	23°45' 42.795" N	83°44' 14.982" E
P2	167500.3365	2631712.734	23°45' 43.824" N	83°44' 17.184" E
P3	167554.9065	2631625.552	23°45' 41.034" N	83°44' 19.179" E
P4	167557.0544	2631521.571	23°45' 37.660" N	83°44' 19.339" E



सरकार के प्राधिकार से निर्मित एवं प्रकाशित

भू-माप अधिकारी

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Area in Ha 1.28

Proposed Ghat of Kanhar - 6 , Block - Bhandria, District - Garhwa, JHARKHAND



मिलान चादर नम्बर १

चुटिआन नं० १४१

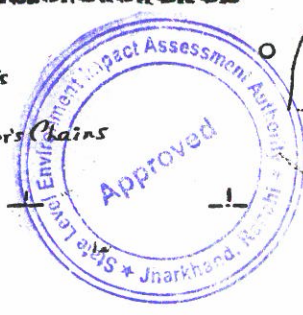
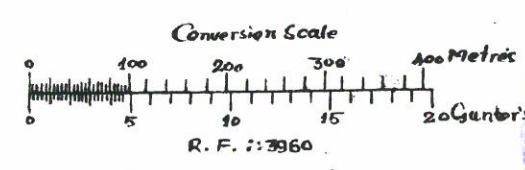
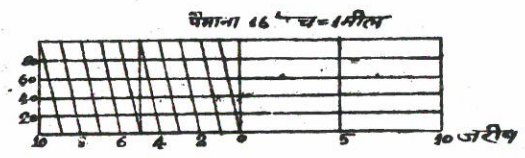
दुरजन नं० १४२

Janewa

मशहूर नाम जनेवा चादर नम्बर २
 थानी नम्बर १४३
 पुलिस थाना भन्डरिया
 राजस्व थाना देका
 अंचल भन्डरिया
जिला गढ़वा
 रेवासत सुरगुजा
 पैमाना १६" = १ मीटर
 क. १४३२-६३३१
 - ०२

सरकार के अधिकार से निर्मित एवं प्रमाणित

निर्देश
 नम्बर मशहूर नाम
 २१६ खीरखान



मिलान चादर नम्बर ३

मिलान चादर नम्बर ४

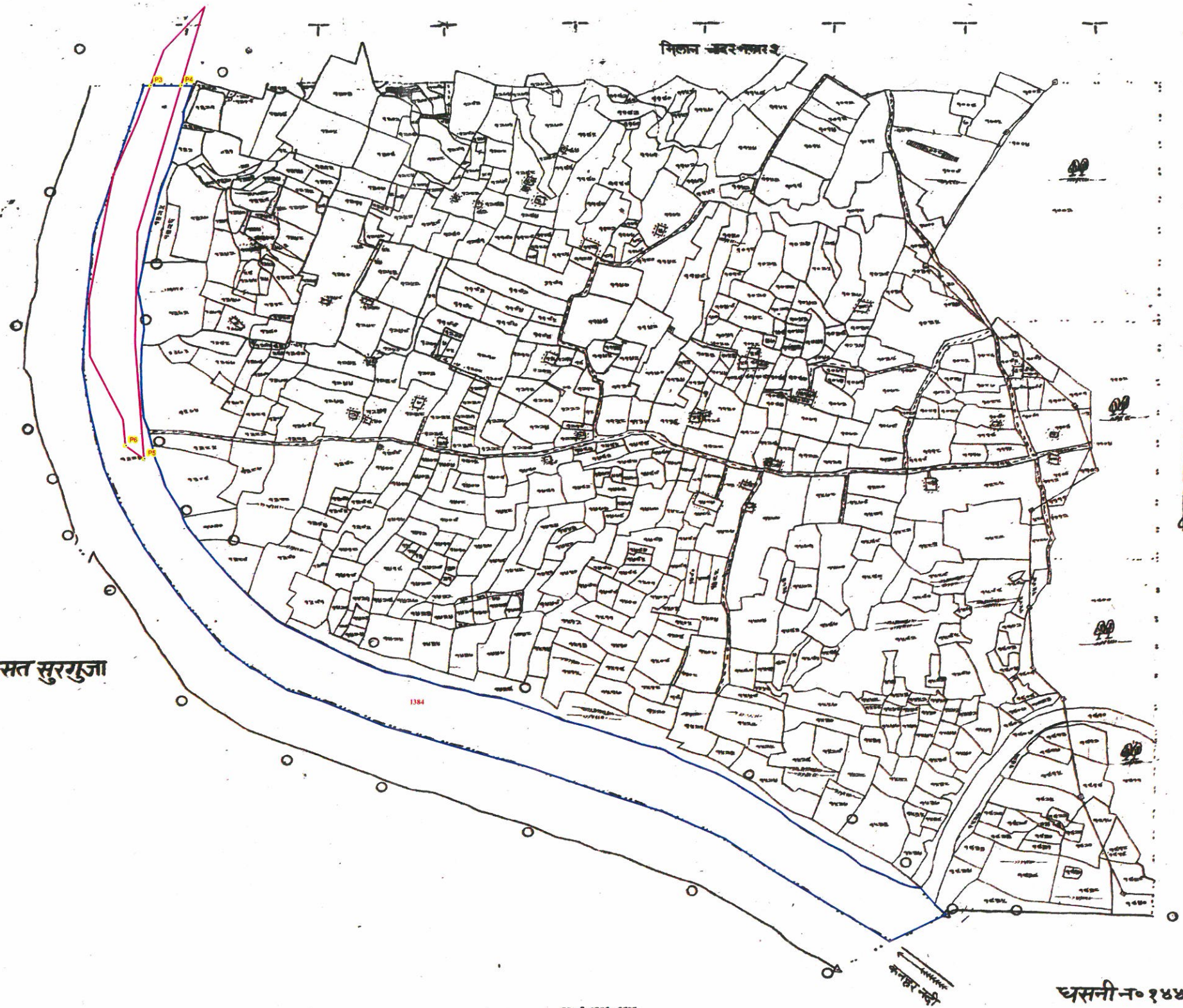
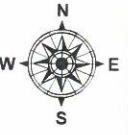
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA In Acre	REMARKS
BHANDARIA	JANEWA	143	2	646	RIVER	44.4613	
TOTAL AREA						44.4613	

Proposed Area in Ha 3.91

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	165986.8174	2633637.832	23° 46' 45.189" N	83° 43' 22.232" E
P2	165922.2968	2633564.861	23° 46' 42.771" N	83° 43' 20.015" E
P3	165900.4293	2633505.195	23° 46' 40.818" N	83° 43' 19.292" E
P4	165948.2162	2633504.798	23° 46' 40.841" N	83° 43' 20.978" E

- Legend
- PILLAR POINT
 - PROPOSED GHAT
 - VILLAGE WISE AREA

Proposed Ghat of Kanhar - 6, Block - Bhandria, District - Garhwa, JHARKHAND



Janeva

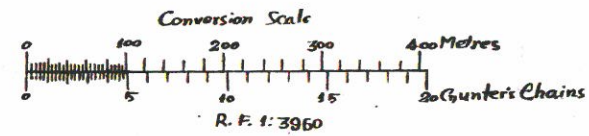
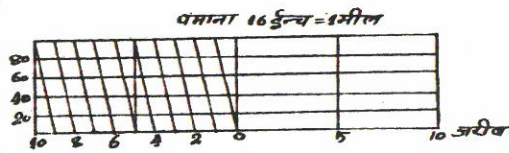
मशहूर नाम जनेवा नदर नम्बर ४
 थाना नम्बर १४३
 पुलिस थाना मन्डरिमा
 राजस्व थाना रंका
 अंचल मन्डरिमा

ज़िला गढ़वा

पैमाना १ इंच = १ मील या १ से.मी. = ३२.८० मीटर
 सन् १९२६-२७ ई.

रेवासत सुरगुजा

सरकार के अधिकार से निर्मित एवं प्रकाशित



घसनी न० १४४
 भू-माप अधीक्षक

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
BHANDARIA	JANEWA	143	4	1384	RIVER	46.0797	
TOTAL AREA						46.0797	

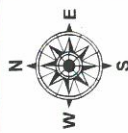
Proposed Area in Ha 3.91

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P3	165900.4293	2633505.195	23° 46' 40.818" N	83° 43' 19.292" E
P4	165948.2162	2633504.798	23° 46' 40.841" N	83° 43' 20.978" E
P5	165881.4715	2632875.655	23° 46' 20.367" N	83° 43' 19.136" E
P6	165853.3271	2632898.593	23° 46' 21.090" N	83° 43' 18.125" E

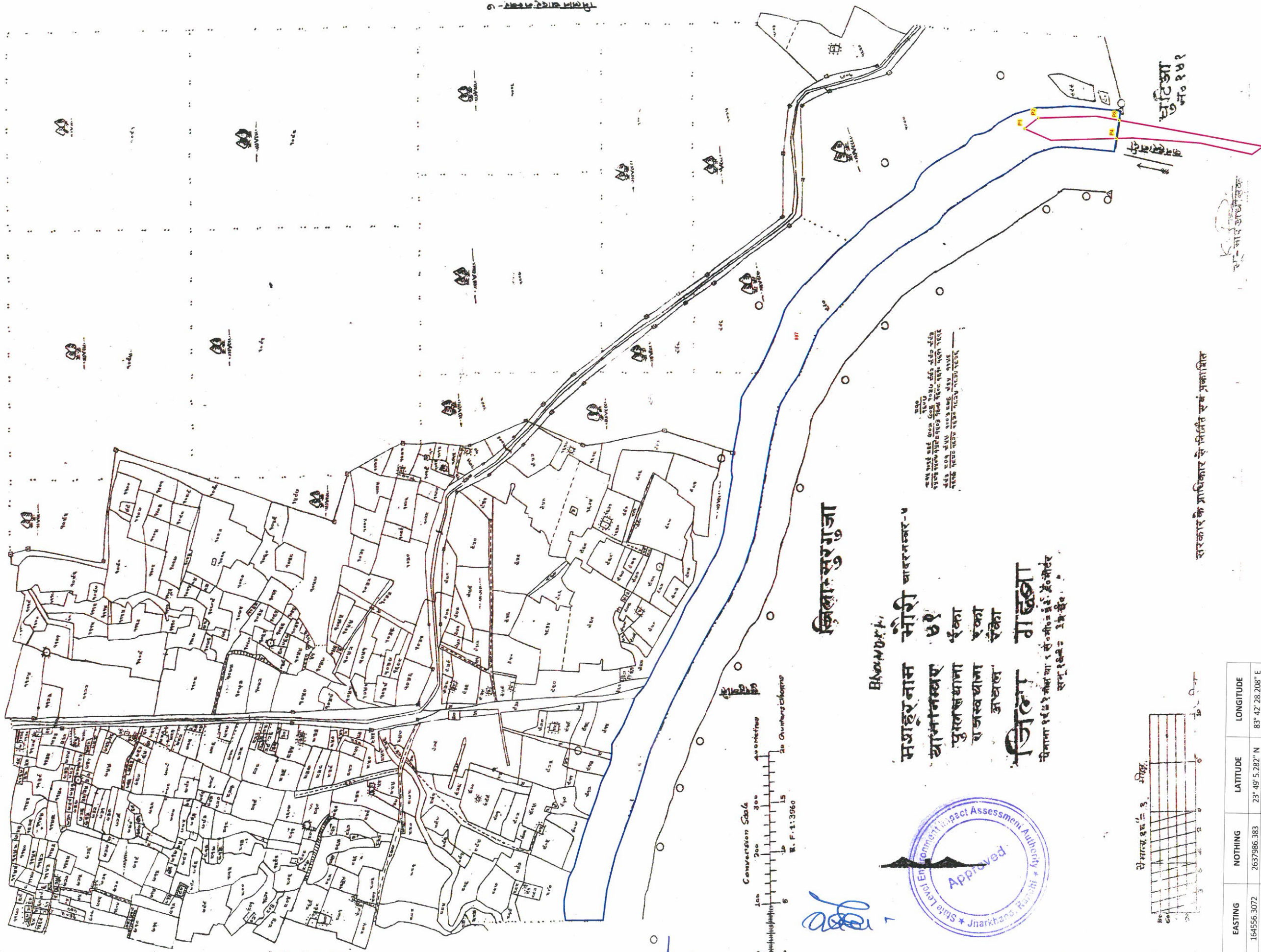
Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of Kanhar - 7, Block - Ranka, District - Garhwa, JHARKHAND

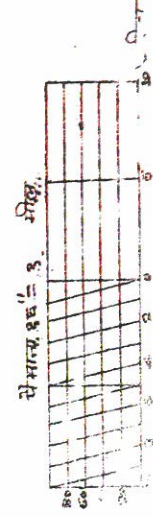
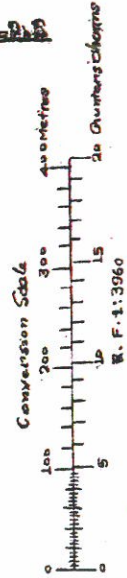


मिलान खास नम्बर - ५



खिला: सुरगुजा

मशहूर नाम
 ग्रामीन नम्बर - ५
 पुराजस थाना
 राजस्व थाना
 अंचल
 जिला
 राज्य
 गाहवा



सरकार के प्राधिकार से निर्मित एवं प्रकाशित

Legend

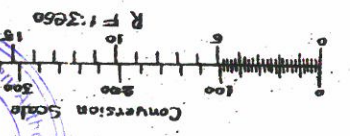
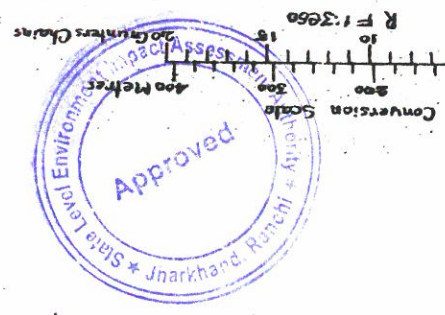
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

PILLAR NO	EASTING	NORTHING	NOTHING	LATITUDE	LONGITUDE
P1	164556.3072	2637986.383		23° 49' 5.282" N	83° 42' 28.208" E
P2	164577.4875	2637956.328		23° 49' 4.322" N	83° 42' 28.980" E
P3	164570.0659	2637779.132		23° 48' 58.564" N	83° 42' 28.864" E
P4	164533.3197	2637785.519		23° 48' 58.744" N	83° 42' 27.562" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	LAND TYPE	PLOT NO	AREA in Acres	REMARKS
RANKA	BHAUNRI	41	4	RIVER	997	42.6887	
						TOTAL AREA	42.6887

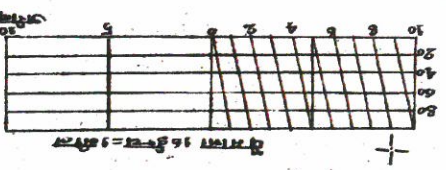
Proposed Area in Ha 1.52

Proposed Ghat of Kanhar - 7, Block - Ranka, District - Garhwa, JHARKHAND



१०० मीटर
 २०० मीटर
 ३०० मीटर
 ४०० मीटर
 ५०० मीटर
 ६०० मीटर
 ७०० मीटर
 ८०० मीटर
 ९०० मीटर
 १००० मीटर

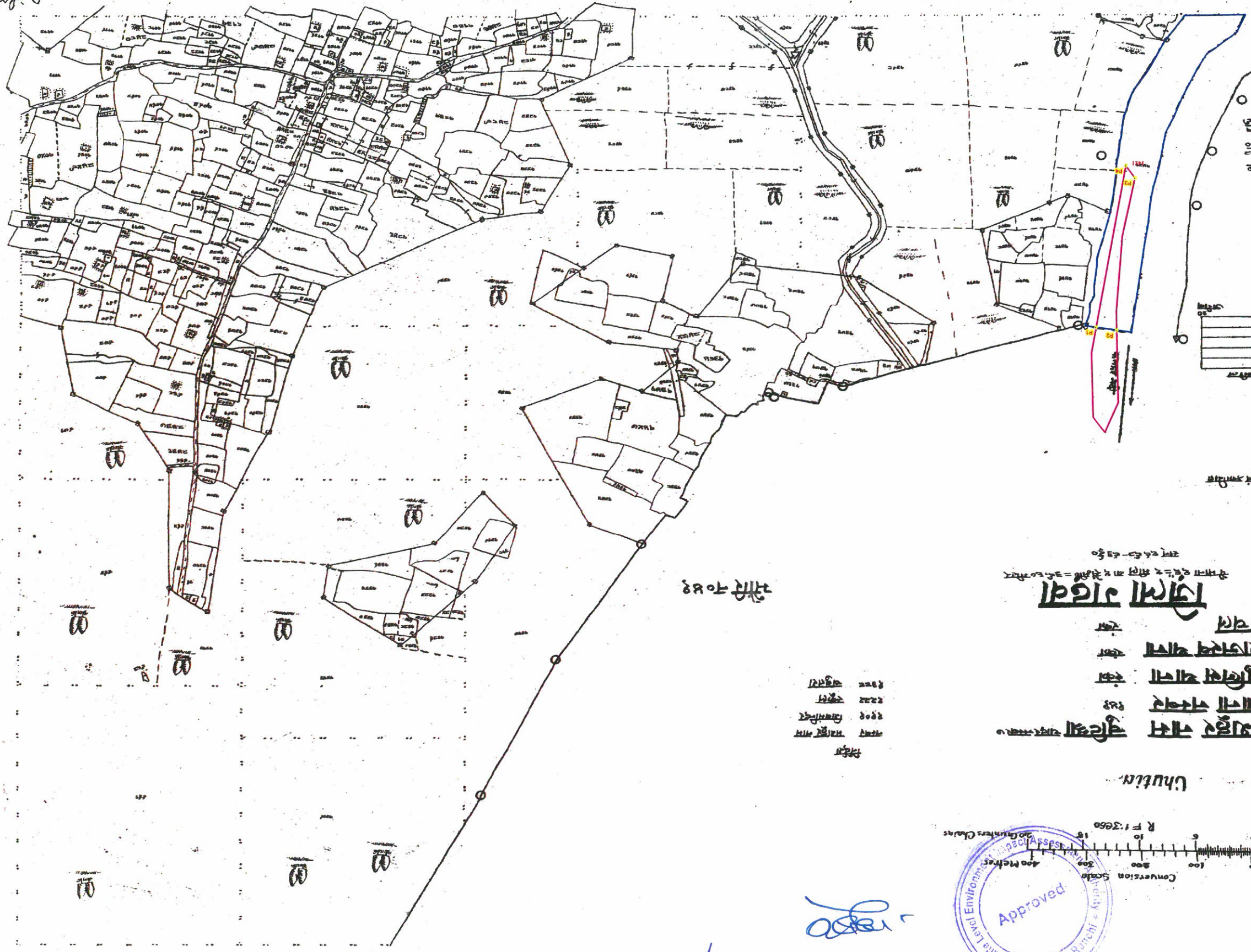
राज्य गण
परिषद्
राज्य गण
परिषद्
राज्य गण
परिषद्
राज्य गण
परिषद्



१०० मीटर
 २०० मीटर
 ३०० मीटर
 ४०० मीटर
 ५०० मीटर
 ६०० मीटर
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 ८०० मीटर
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 १००० मीटर

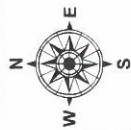
PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE			
P1	164570.0659	263779.132	23° 48' 58.564" N	83° 42' 28.864" E			
P2	164533.3197	263778.5194	23° 48' 58.741" N	83° 42' 27.562" E			
P3	164497.0947	263748.375	23° 48' 49.005" N	83° 42' 26.529" E			
P4	164513.1414	263748.216	23° 48' 48.233" N	83° 42' 27.115" E			
BLOCK NAME	VILLAGE NAME	THANA NAME	SHEET NO	LAND TYPE	PLOT NO	AREA in Acre	REMARKS
RANKA	GHUTIA	141	7			12.7264	
TOTAL AREA			1421			12.7264	

Proposed Area in Ha 1.52



Legend
 PROPOSED GHAT
 VILLAGE WISE AREA
 PILLAR POINT

Proposed Ghat of Kanhar - 8, Block - Ranka, District - Garhwa, JHARKHAND

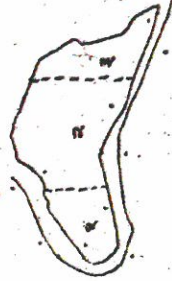


Anhar

मशहर नाम
थाना नम्बर
पुलिस थाना
राजस्व थाना
अंचल
जिला गढ़वा

मशहर नाम
१५१
अनादीलार
१५० स्कूल मैदान

चाकर सिंचिका



जिला-सुरगुजा

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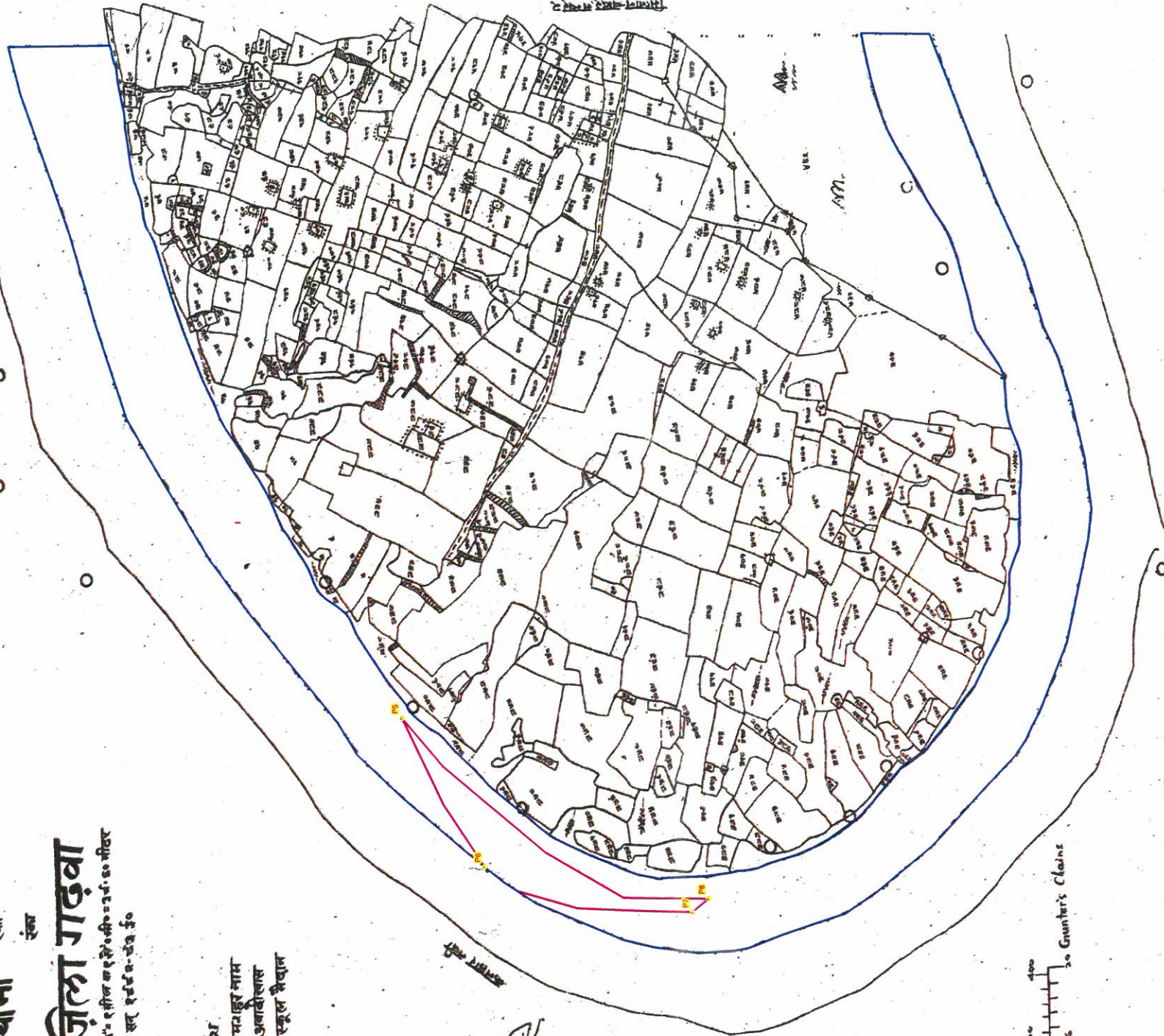
Conversion Scale
R. F. 1: 3960

सोमना १६ फुट - १ मीटर



सरकार के अधिकार से निर्मित एवं प्रकाशित

Meluh
५-मार्च २०१६



Legend

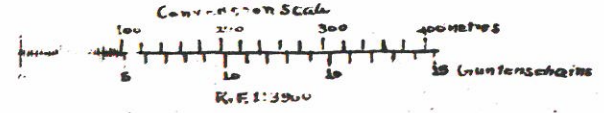
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P5	150822.7847	2644077.524	23° 52' 12.424" N	83° 34' 18.438" E
P6	150618.1595	2643958.596	23° 52' 8.402" N	83° 34' 11.318" E
P7	150548.9822	2643652.237	23° 51' 58.404" N	83° 34' 9.139" E
P8	150566.9022	2643627.922	23° 51' 57.629" N	83° 34' 9.792" E

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_In_Acre	REMARKS
RANKA	ANHAR	34	1	1	RIVER	79.9313	
						TOTAL AREA	79.9313

Proposed Area in Ha 2.0

Proposed Ghat of Kanhar - 9 , Block - Ranka, District - Garhwa, JHARKHAND



Siroi alias Belwadamar

मशहूर नाम सिरौड उर्फ बेलवादामर थाना नम्बर ३३
 थाना नम्बर ३३
 पुलिस थाना रंका
 राजस्व थाना रंका
 अंचल रंका

जिला गढ़वा

विमाना २६ = २ मीटर मा २ से ० की = ३०.०० मीटर
 एर २६.६२ - ६३.६०

बाराडीह न० २३

जिला-सुरगुजा

बाघाकुंदर न० ३५

अनहर न० ३४



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परकार के अधिकार से निर्मित एवं प्रकाशित

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	152230.0396	2645019.829	23°52' 44.115" N	83°35' 7.305" E
P2	152239.0717	2644959.708	23°52' 42.170" N	83°35' 7.675" E
P3	152136.0184	2644947.61	23°52' 41.697" N	83°35' 4.048" E
P4	152226.9138	2644935.789	23°52' 41.384" N	83°35' 7.267" E

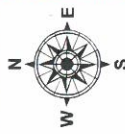
Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	LAND TYPE	PLOT NO	AREA in Acre	REMARKS
RANKA	SIROI ALIAS BELWADAMAR	33	2	RIVER	857	25.3745	
TOTAL AREA						25.3745	

Proposed Area in Ha 3.86

Proposed Ghat of Kanhar - 9, Block - Ranka - Ranka, District - Garhwa, JHARKHAND



सिरोह उर्फ बेरावादार नं० ३३

जिला-सुरगुजा

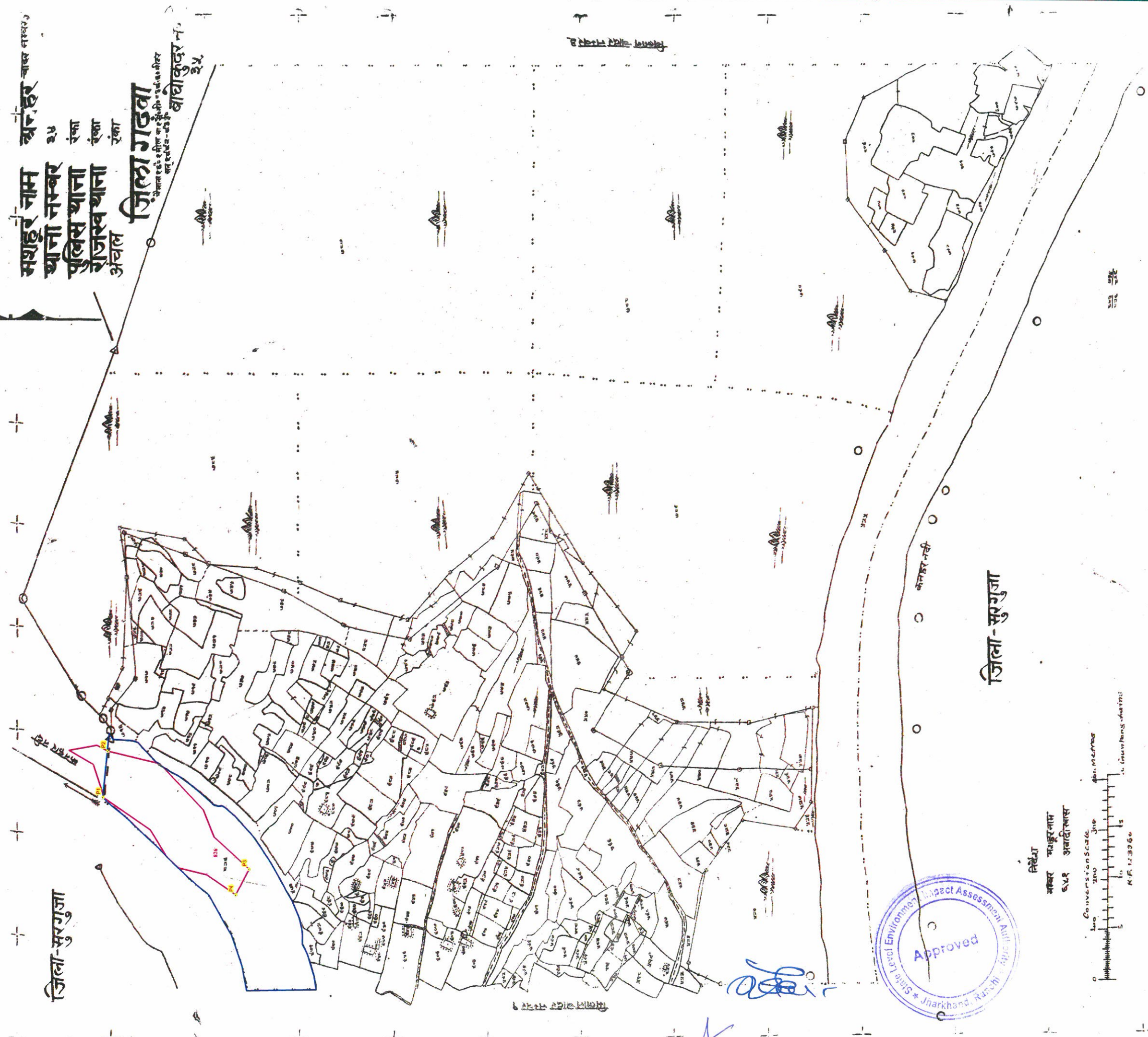
Anhar

मशहूर नाम
थाना नम्बर
पुलिस थाना
राजस्व थाना
अचल

अचल नम्बर ३५
रंका
रंका
रंका

जिला गडवा

बाघाकुंदर नं० ३५



जिला-सुरगुजा



निर्देश
अक्षर मशहूर नाम
S.V.R अचलवास



सरकार के अधिकार से निर्मित एवं प्रकृतित

PILLAR NO	EASTING	NORTHING	NOTHING	LATITUDE	LONGITUDE
P1	152136.0184	2644947.61		23° 52' 41.697" N	83° 35' 4.048" E
P2	152226.9138	2644935.789		23° 52' 41.384" N	83° 35' 7.267" E
P3	151988.7484	2644635.639		23° 52' 31.455" N	83° 34' 59.116" E
P4	151938.7065	2644665.654		23° 52' 32.390" N	83° 34' 57.324" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in_Acre	REMARKS
RANKA	ANHAR	34	2	826	RIVER	21.3311	
						TOTAL AREA	21.3311

Proposed Area in Ha 3.86

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of Kanhar - 10, Block - Ranka, District - Garhwa, JHARKHAND



मिलान चादर नम्बर १

मिलान चादर नम्बर २

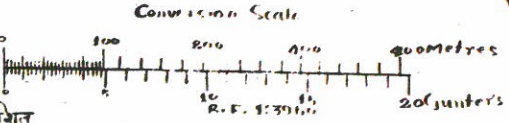
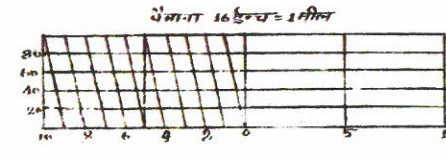
मिलान चादर नम्बर ३

मिलान चादर नम्बर ४

Dudhwal

मशहूर नाम दुधवल थाना नम्बर ३
 थाना नम्बर १२
 पुलिस थाना रंका
 राजस्व थाना रंका
 अंचल रंका
जिला गढ़वा
 पैमाना १:६०० = १ मीटर या १ से.० मीटर = ३६.६० मीटर
 सन् १९६०-६३ ई

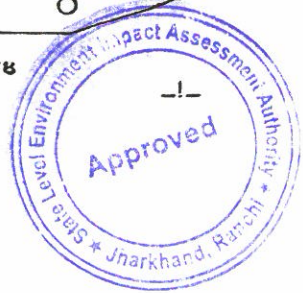
जिला-सुगुजा
 २०७



PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	149030.531	2647281.331	23° 53' 54.998" N	83° 33' 12.423" E
P2	149051.077	2647303.621	23° 53' 55.737" N	83° 33' 13.129" E
P3	149481.71	2646733.446	23° 53' 37.572" N	83° 33' 28.822" E
P4	149239.628	2646858.738	23° 53' 41.447" N	83° 33' 20.169" E

BLOCK_NAME	VILLAGE_NAME	THANA_NO	LAND_TYPE	SHEET_NO	PLOT_NO	AREA_in_Acre	REMARKS
RANKA	DUDHWAL	12	RIVER	3	743	52.5583	
						TOTAL AREA	52.5583

Proposed Area in Ha 2.83



Legend

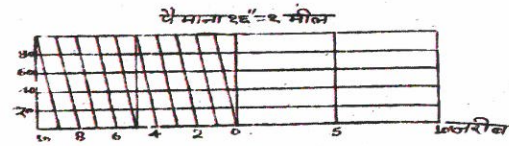
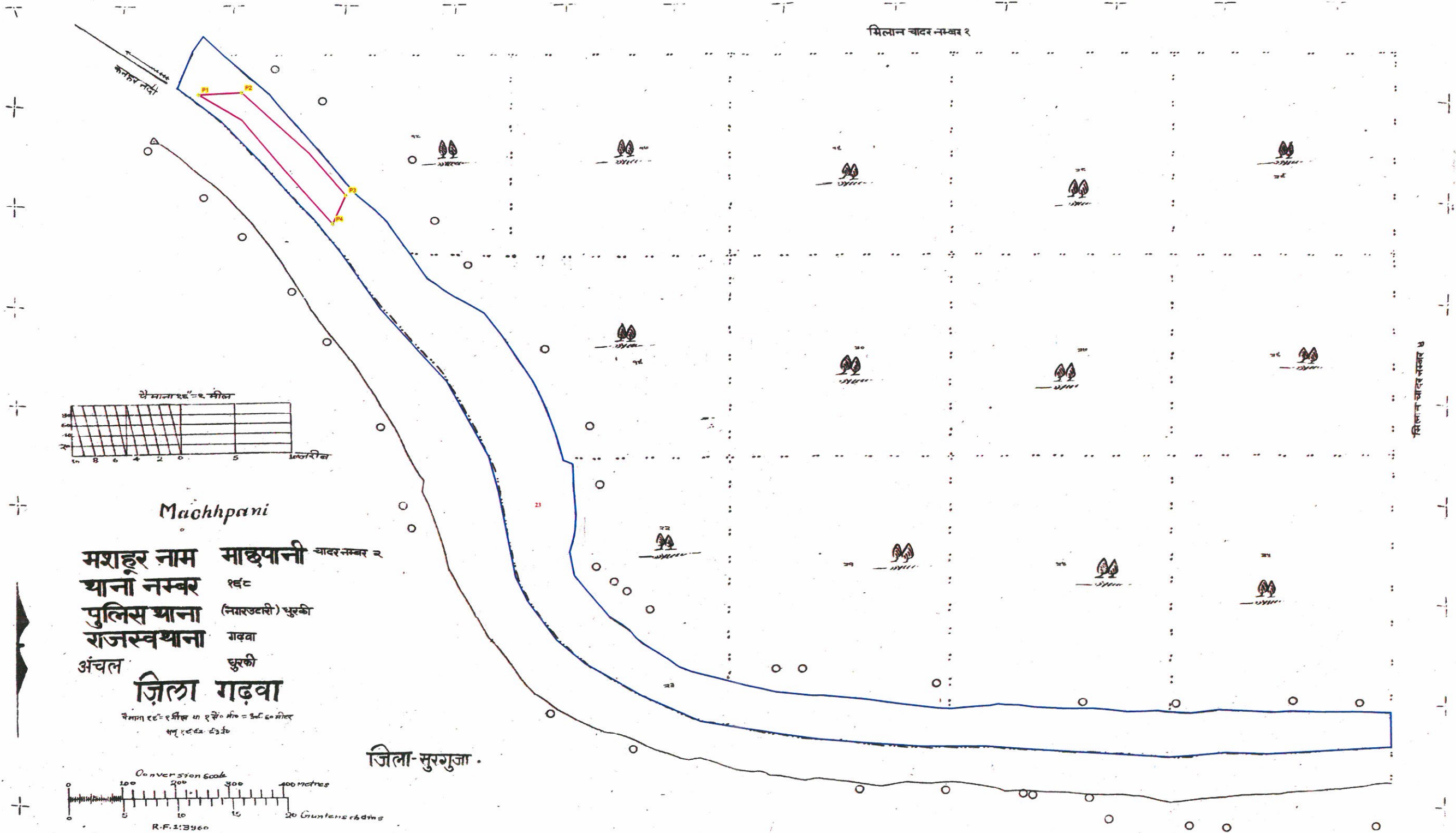
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

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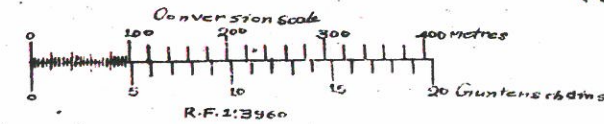
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 भू-साय प्रविष्टिक

Proposed Ghat of Kanhar - 11 , Block - Dhurki, District - Garhwa, JHARKHAND



Machhpani
 मशहूर नाम **माछपानी** यादर नम्बर २
 थाना नम्बर १६८
 पुलिस थाना (नगरउदारी) धुरकी
 राजस्व थाना गढ़वा
 अंचल धुरकी
जिला गढ़वा
 धै माता रूढ = २ मील या १ ईंच = १०० गज
 सन् १९६२-६३ ई



PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	138321.2111	2664707.553	24°3' 11.930" N	83°26' 38.851" E
P2	138400.3722	2664710.692	24°3' 12.097" N	83°26' 41.646" E
P3	138585.9116	2664504.411	24°3' 5.555" N	83°26' 48.387" E
P4	138561.3474	2664448.177	24°3' 3.710" N	83°26' 47.569" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	LAND TYPE	PLOT NO	AREA in Acre	REMARKS
DHURKI	MACHHPANI	168	3	RIVER	23	69.7564	
TOTAL AREA						69.7564	

Proposed Area in Ha 1.56

सरकार के प्राधिकार से निर्मित एवं प्रकाशित

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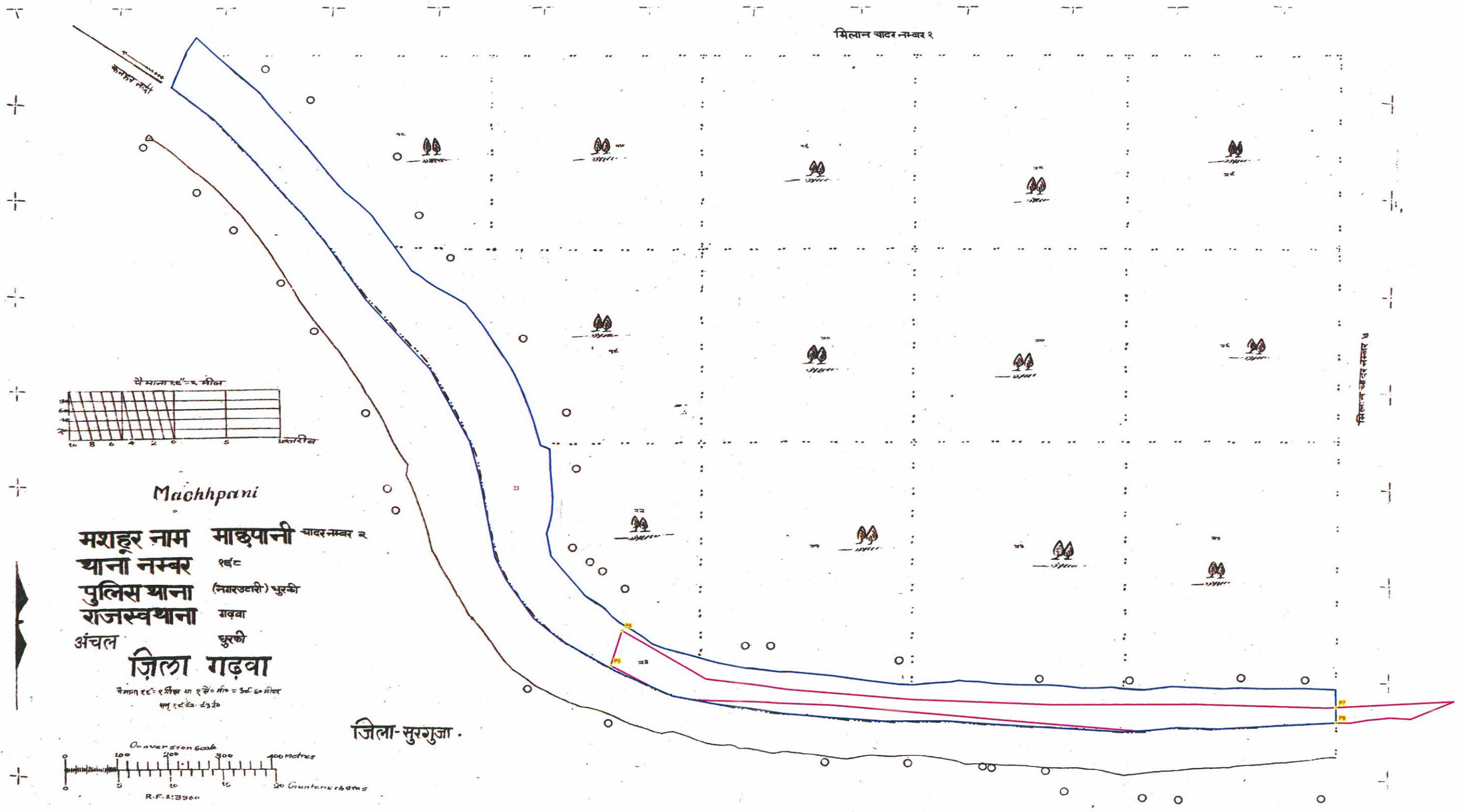


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 भू-माप अधिकारी

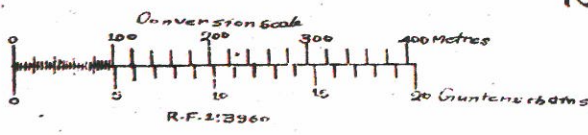
Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of Kanhar - 12 , Block - Dhurki, District - Garhwa, JHARKHAND



Machhpani
 मशहूर नाम माछपानी चादर नम्बर २
 थाना नम्बर १६८
 पुलिस थाना (नगरउदारी) धुर्की
 राजस्व थाना गढ़वा
 अंचल धुर्की
ज़िला गढ़वा
 सैमाना रू० = १ मीटर या १ सें० मी० = ३६०० मीटर
 १ सें० रू० = ६३००



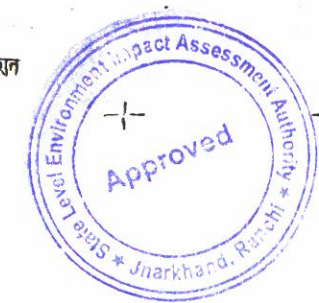
PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P5	139099.6944	2663513.934	24°2' 33.832" N	83°27' 7.429" E
P6	139121.9604	2663585.771	24°2' 36.182" N	83°27' 8.152" E
P7	140697.027	2663419.422	24°2' 32.072" N	83°28' 3.960" E
P8	140614.4826	2663384.608	24°2' 30.875" N	83°28' 1.074" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	LAND TYPE	PLOT NO	AREA in Acre	REMARKS
DHURKI	MACHHPANI	168	3	RIVER	23	69.7564	
TOTAL AREA						69.7564	

Proposed Area in Ha 7

सरकार के प्राधिकार से निर्मित एवं प्रकाशित

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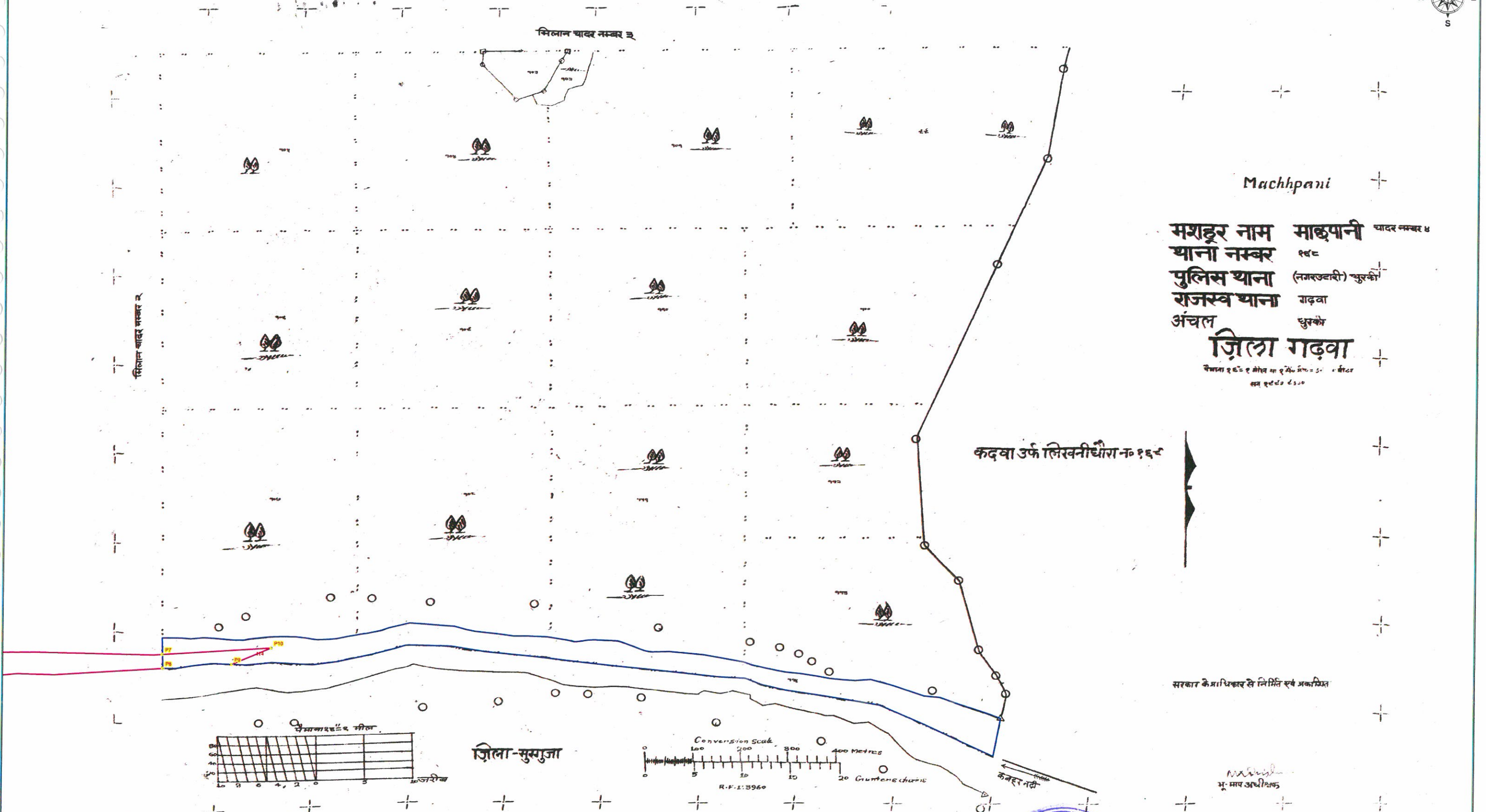


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 भू-माप अधिकारी

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

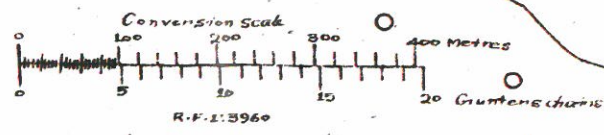
Proposed Ghat of Kanhar - 12 , Block - Dhurki, District - Garhwa, JHARKHAND



Machhpani
 मशहूर नाम माछपानी चादर नम्बर ४
 थाना नम्बर १६८
 पुलिस थाना (नगरउदासी) धुर्की
 राजस्व थाना गढ़वा
 अंचल धुर्की
ज़िला गढ़वा
 वेकेशन एक्ट १९८० के अन्तर्गत मा १६८० प्रिनो = ५०० वर्ग फीट
 सन १९८० ई०

कढ़वा उर्फ लिखनीधौरा न० १६८

सरकार के अधिकार से निर्मित एवं प्रकटित



PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P7	140697.027	2663419.422	24°2' 32.072" N	83°28' 3.960" E
P8	140614.4826	2663384.608	24°2' 30.875" N	83°28' 1.074" E
P9	140614.4826	2663384.608	24°2' 30.875" N	83°28' 1.074" E
P10	140697.027	2663419.422	24°2' 32.072" N	83°28' 3.960" E

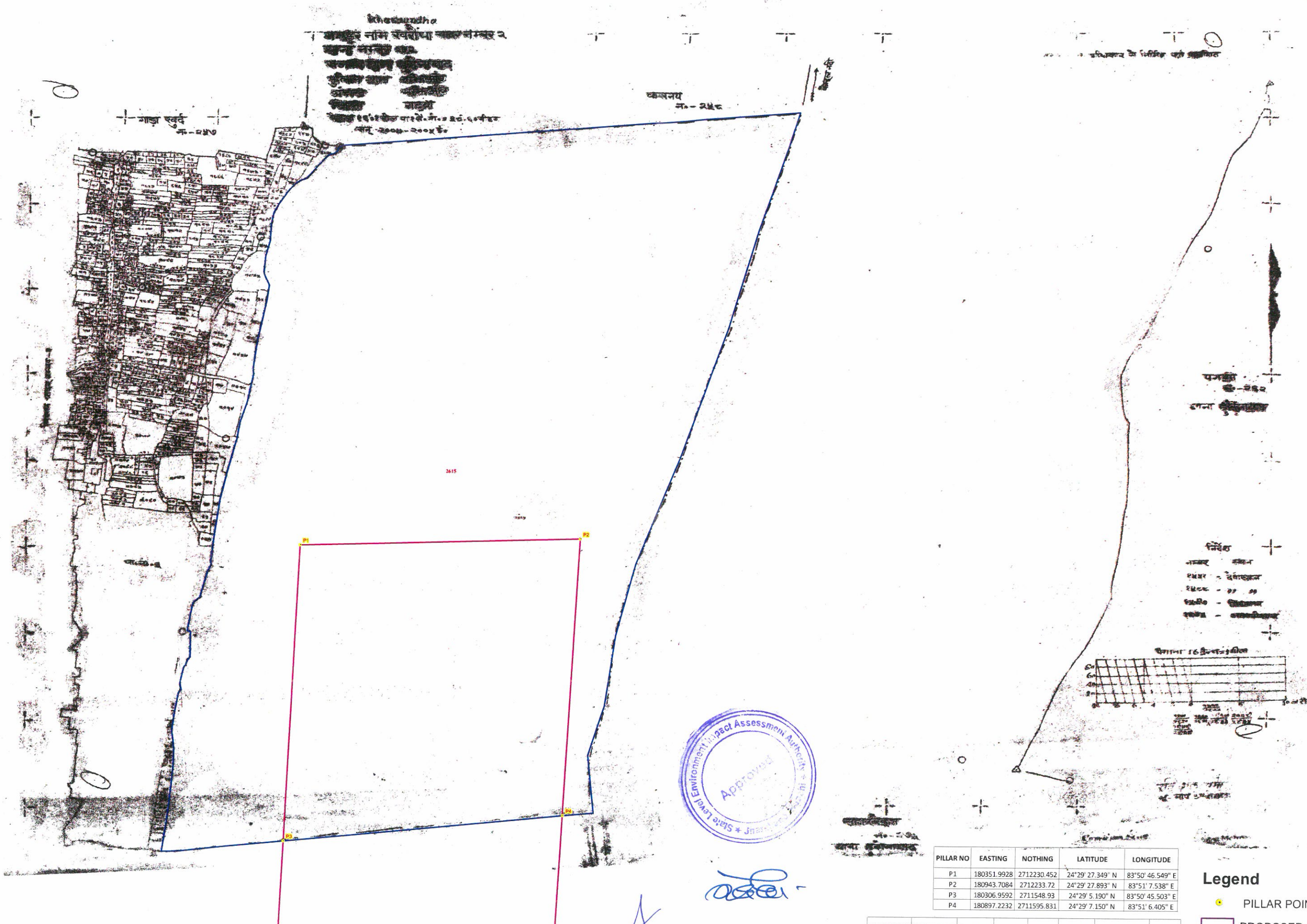
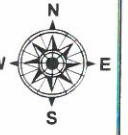
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	LAND TYPE	PLOT NO	AREA in Acre	REMARKS
DHURKI	MACHHPANI	168	4	RIVER	114	22.0575	
TOTAL AREA						22.0575	

Proposed Area in Ha 7



- Legend**
- PILLAR POINT
 - PROPOSED GHAT
 - VILLAGE WISE AREA

Proposed Ghat of North Koel - 1, Block - Kandi, District - Garhwa, JHARKHAND



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PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	180351.9928	2712230.452	24°29' 27.349" N	83°50' 46.549" E
P2	180943.7084	2712233.72	24°29' 27.893" N	83°51' 7.538" E
P3	180306.9592	2711548.93	24°29' 5.190" N	83°50' 45.503" E
P4	180897.2232	2711595.831	24°29' 7.150" N	83°51' 6.405" E

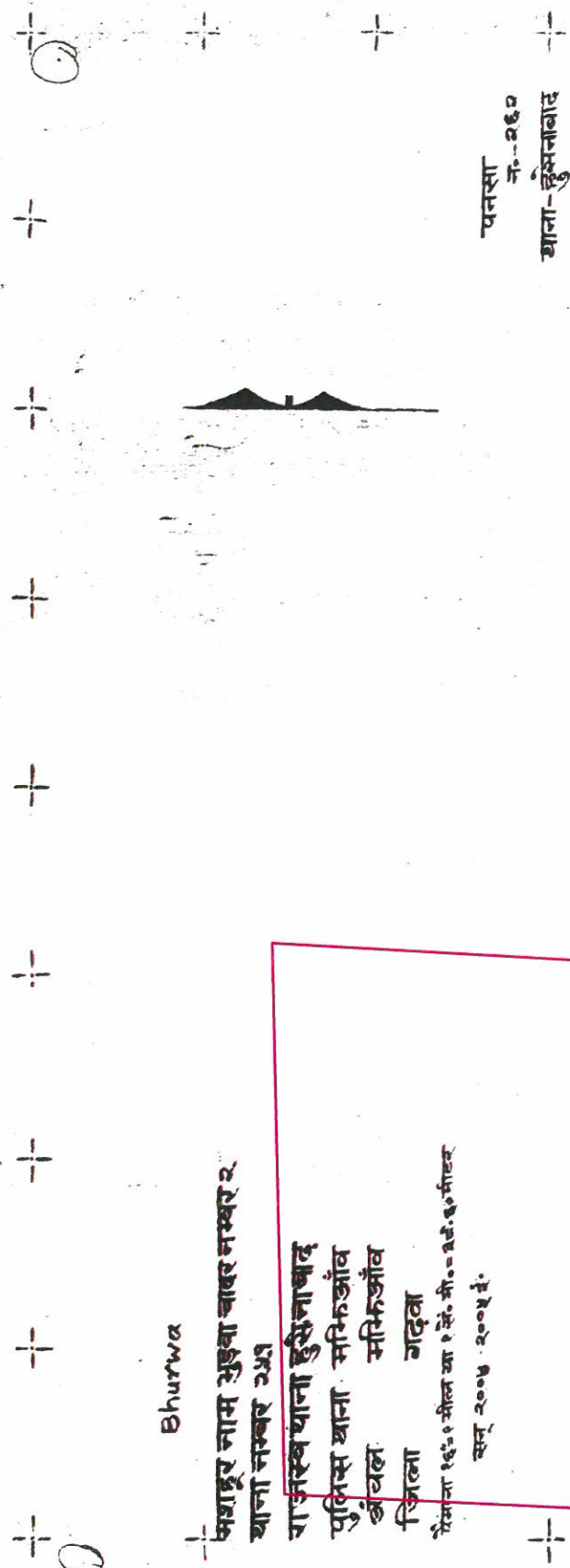
Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
KANDI	KHARAUNDHA	252	2	2615	RIVER	379.8613	
TOTAL AREA						379.8613	

Proposed Area in Ha 145

Proposed Ghat of North Koel - 1, Block - Kandi, District - Garhwa, JHARKHAND

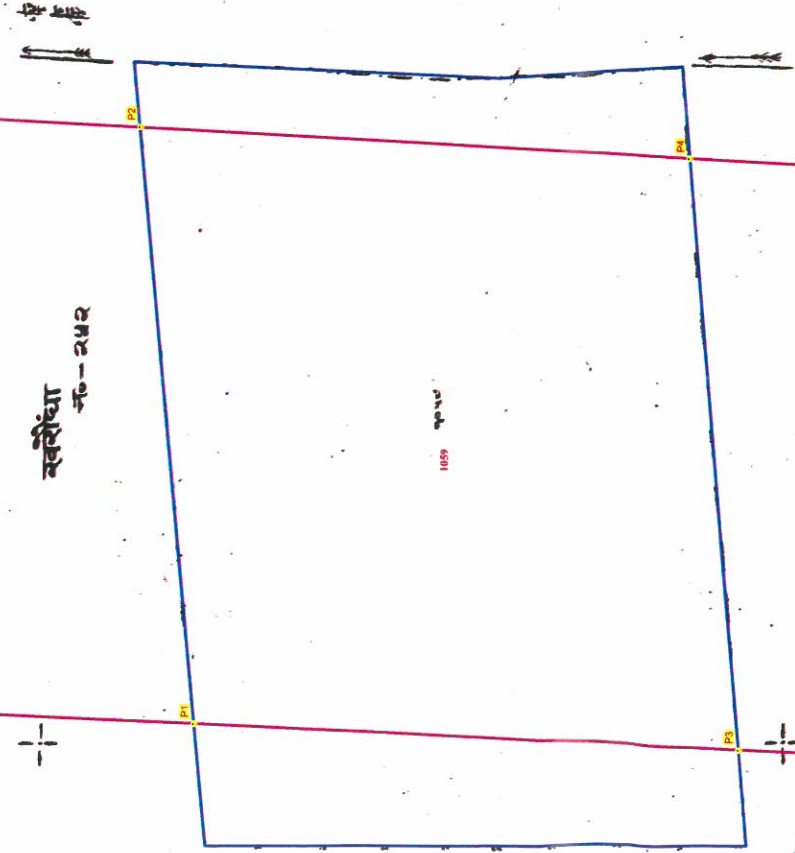


Bhurwa

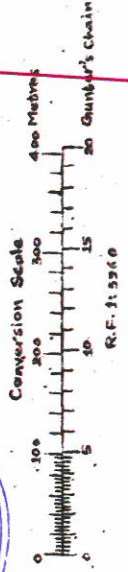
भण्डार नाम अडुवा बाहर नम्बर २
धाना नम्बर २५१

राजस्व धाना हुसैनाबाद
पुलिस थाना सभिकुआंव
खंडवल सभिकुआंव
जिला गढ़वा
पिनकोड १६६१ सील आ १ सं. सी.०-१६०/सील
सन् २००४-२००५ ई.

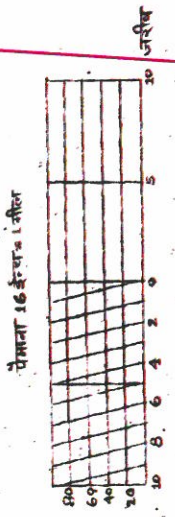
स्वरीधा नं.-२५२



अनुमति नं.-२५०



R.F. 1: 5260



सहारकुरा नं.-२७५
धाना-हुसैनाबाद

सावकाद के अधिकार के निर्मित एवं प्रकृतित

रवि अंकरणी
अ-साव अणुसक

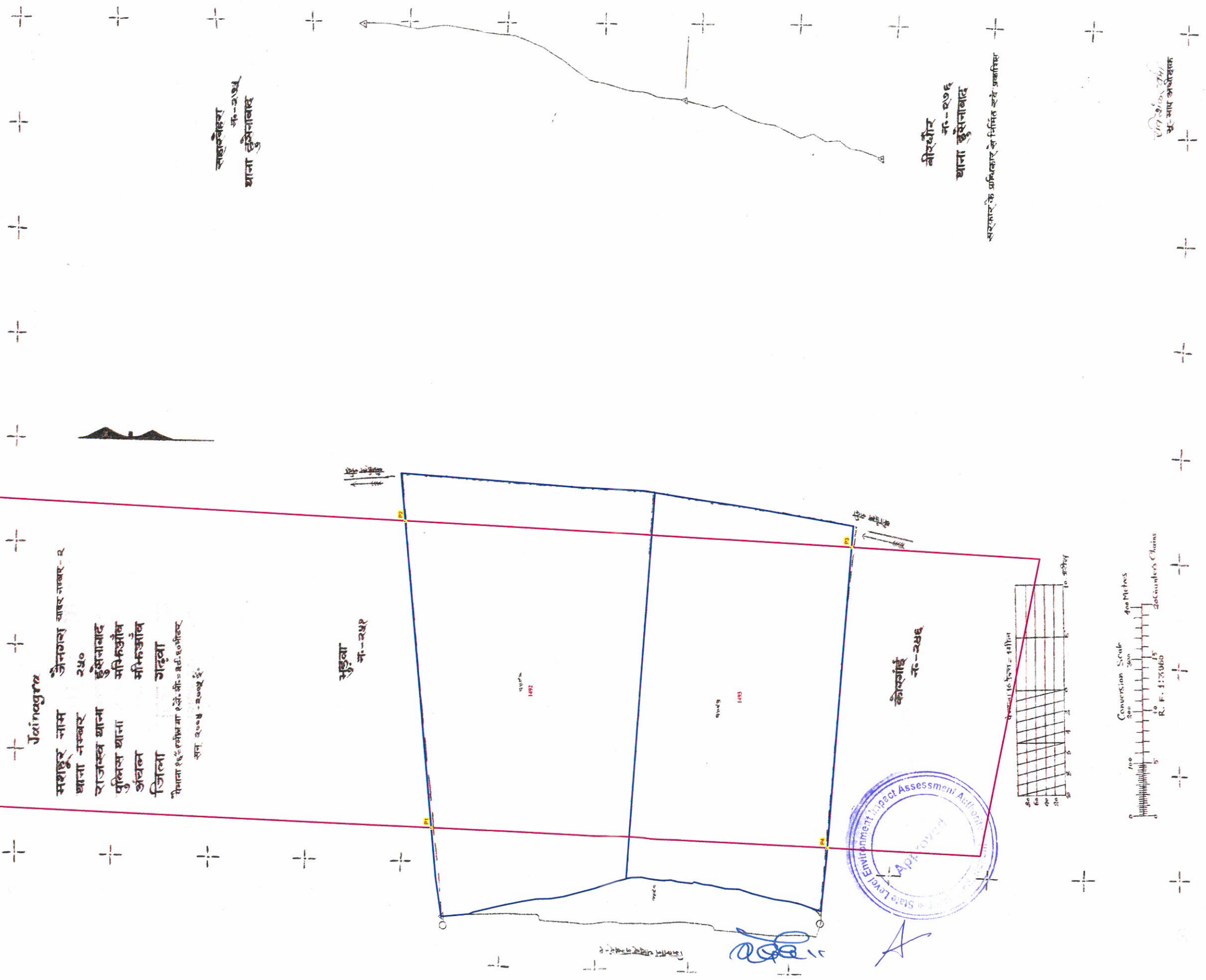
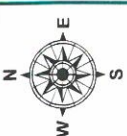
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PILOT NO	LAND TYPE	AREA In Acre	REMARKS
KANDI	BHURWA	251	2	1059	RIVER	112.0124	
						TOTAL AREA	112.0124

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	180306.9592	2711548.93	83°50' 45.503" E	83°50' 45.503" E
P2	180897.2232	2711595.831	83°51' 6.405" E	83°51' 6.405" E
P3	180267.7458	2710955.487	83°50' 44.593" E	83°50' 44.593" E
P4	180852.1071	2711000.116	83°51' 5.286" E	83°51' 5.286" E

Proposed Ghat of North Koel - 1, Block - Kandl, District - Garhwa, JHARKHAND



Jainnagar
 मशहूर नाम जैनगल काबर नाबर - २
 खाना नम्बर २५०
 राजस्व थाना हुसेनाबाद
 पुलिस थाना सिकरुआँव
 अंचल सिकरुआँव
 जिला गढ़वा
 पोस्टा १६६ कोल या रोजे. पी. = ३६.१० मीटर
 सन २००३ - २००२ ई.

साहसबहेरा
 न-२५५
 थाना हुसेनाबाद

बीरथौर
 न-२७६
 थाना हुसेनाबाद

भारत सरकार के ग्रामिणकार के निर्मित एवं प्रकृतिर

1/19, 2/19, 3/19
 स-आए अचोदक

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	180267.7458	2710955.487	24°28'45.895" N	83°50'44.593" E
P2	180852.1071	2711000.116	24°28'47.777" N	83°51'5.286" E
P3	180783.2885	2710073.329	24°28'17.638" N	83°51'3.594" E
P4	180213.2295	2710130.456	24°28'19.070" N	83°50'43.327" E

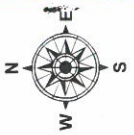
BLOCK NAME	VILLAGENAME	THANA NO	SHEETNO	PLOTNO	LANDTYPE	AREA IN ACRE	REMARKS
KANDI	JAINAGRA	250	2	1493	RIVER	24.1703	
KANDI	JAINAGRA	250	2	1492	RIVER	90.1968	
						TOTAL AREA	264.3671

Proposed Area in Ha 145

Legend

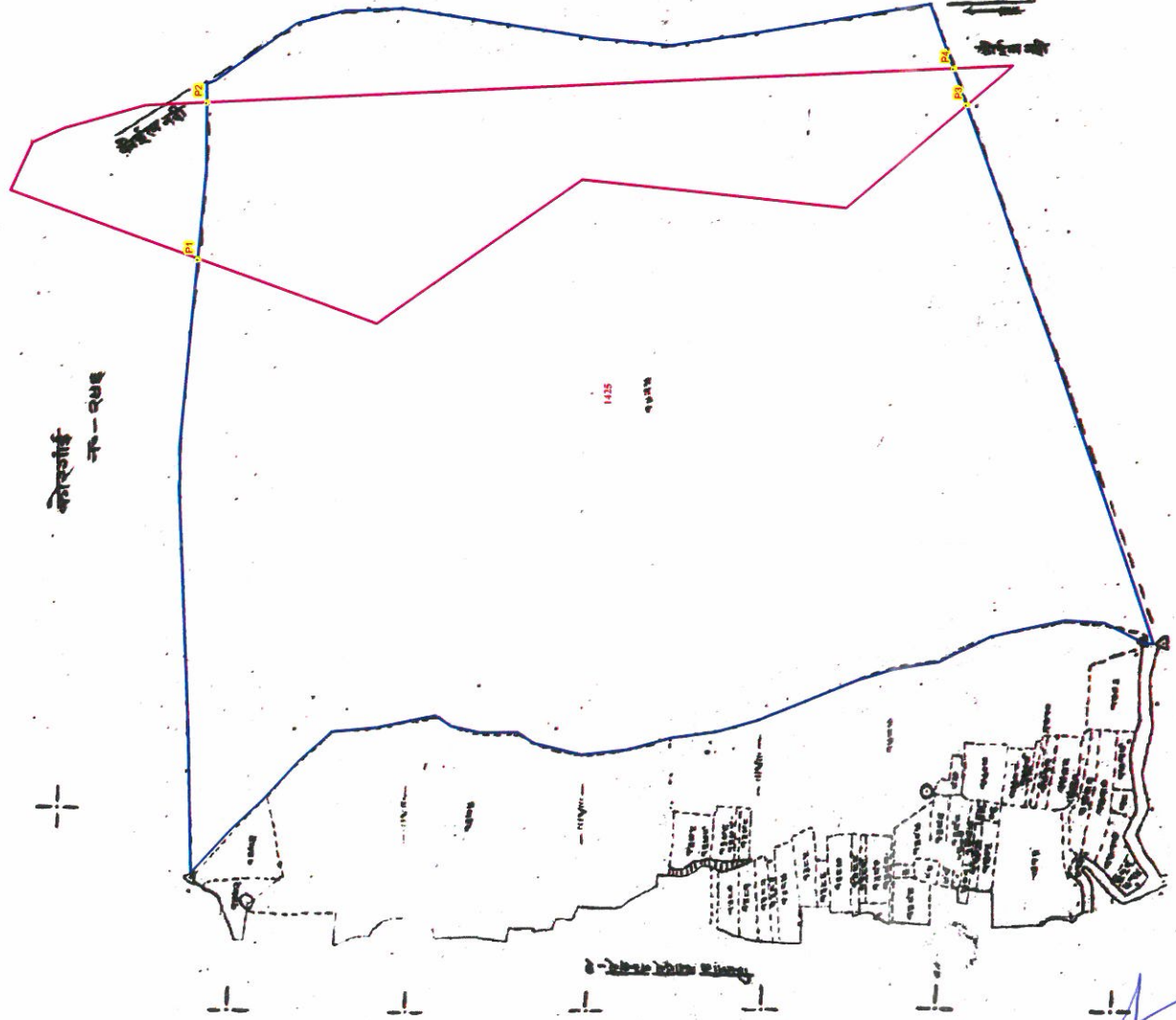
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of North Koel - 2, Block - Kandi, District - Garhwa, JHARKHAND



Mukhapi

- | सशस्त्र नाम सुल्कापी चालनकार २
खास नम्बर २५५
- राजस्व यानी हुसलाफीद
पुस्तक खाला सकिन्डील
अंवाल सकिन्डील
- | जिला गढ़वा
थेमाना १६०१ मील आ १ से.मी. - २५६.५००४६६
- सन् २००५-२००६ ई.



मीरपोर नं-२५६

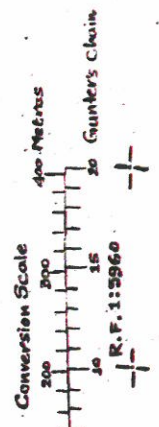
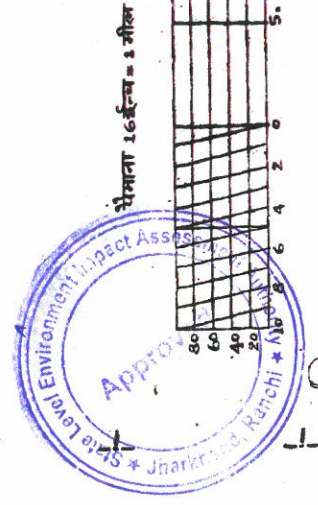
कोरगाँव नं-२५६

रामडीह नं-१५६

कोरगाँव सोनलरवा नं-५६
खाला हुसलाफीद

खाला के अतिक्रम के निमित्त सब प्रकृति

रही अतिक्रम
२५-२५६ अतिक्रम



PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	180677.5084	2709217.783	24°27' 49.784" N	83°51' 0.534" E
P2	180840.2354	2709204.309	24°27' 49.467" N	83°51' 6.316" E
P3	180818.5339	2708345.598	24°27' 21.573" N	83°51' 6.240" E
P4	180856.5864	2708360.073	24°27' 22.071" N	83°51' 7.578" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
KANDI	MUKHAPI	245	2	1425	RIVER	171.7946	
						TOTAL AREA	171.7946

Proposed Area in Ha 15.3

Legend

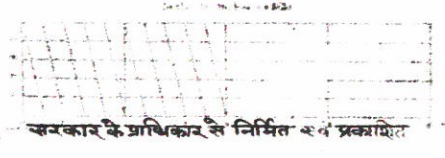
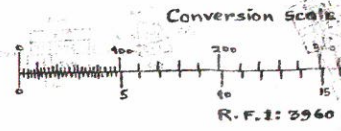
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of North Koel - 3 , Block - Kandi, District - Garhwa, JHARKHAND



Ranadih
 मसहूर नाम राणाडीह चादर नम्बर-१
 थाना नम्बर १८६
 राजस्व थाना हुसेनाबाद
 पुलिस थाना मभिर्जाव
 अंचल मभिर्जाव
 जिला गढ़वा
 पैमाना १:६२१ मीटर या १ सें.मी. = ३६.६० मीटर
 सन् २००२-२००३ ई.

- निर्देश**
- ५०० - स्तम्भ
 - ५०० - आवासीय वास्तु
 - ५०० - देवस्थान
 - ५०० - स्कूल
 - ५०० - जमजाबाली शंकर
 - ५०१ - डिहवार स्थान
 - १००६ - स्तम्भिकी स्थान
 - १२४६ - देवी मण्डप
 - १२४२ - बह्मस्थान



चादर निर्देशिका

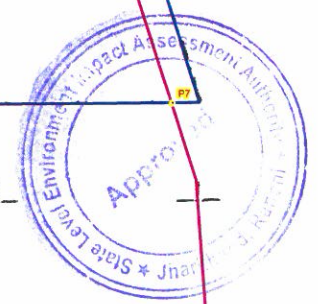
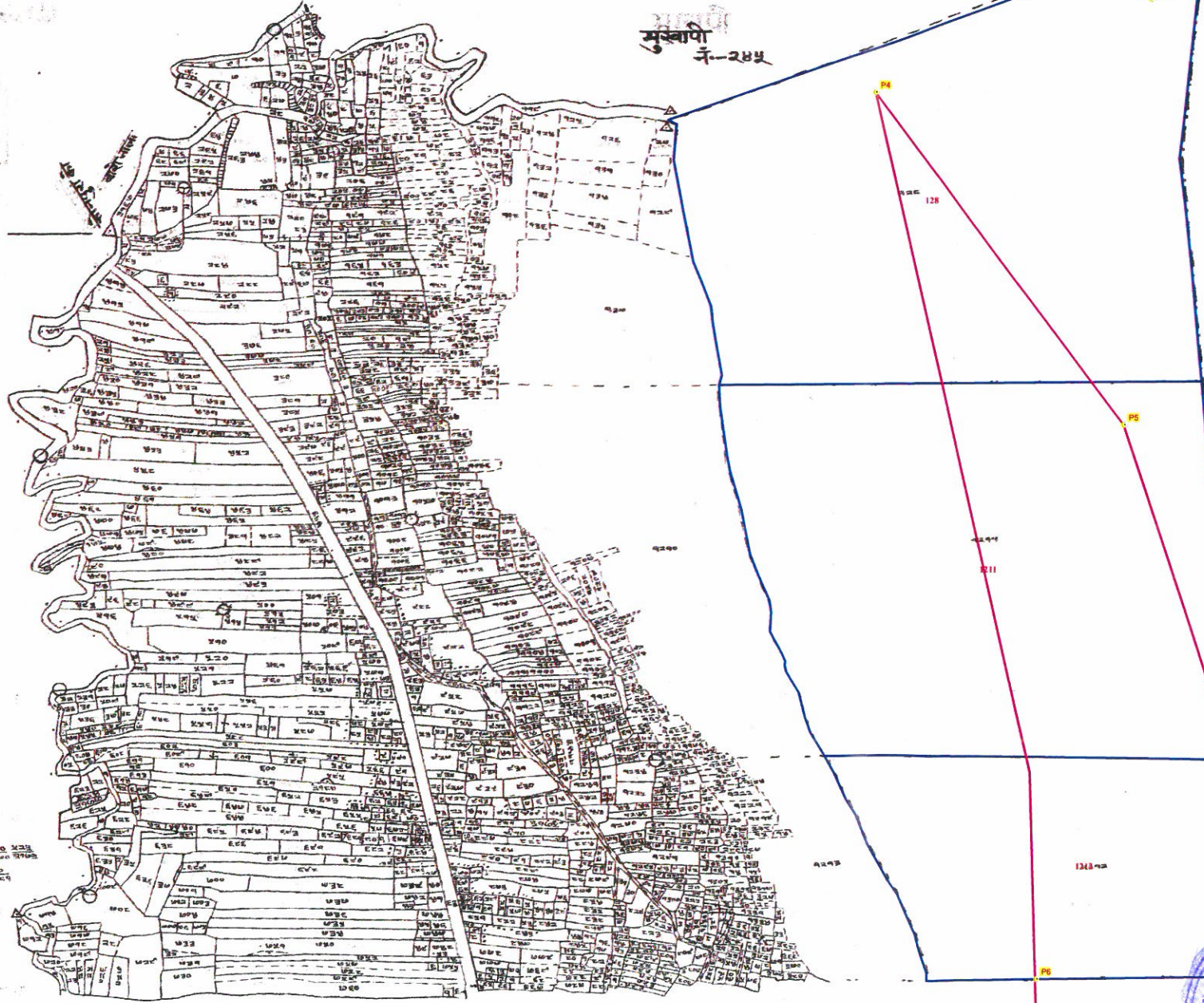
बुरुडा नं-२४३

रामबांध नं-१८०

मुस्तापी नं-२४५

कोल्हुडा मोनबस्ता थाना हुसेनाबाद नं-५२५

भजनीडा थाना हुसेनाबाद नं-५२७



A. N. Dikwe
 भू माप अधिकारी

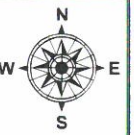
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acce	REMARKS
KANDI	RANADIH	189	1	1212	RIVER	37.5433	
KANDI	RANADIH	189	1	1211	RIVER	72.2956	
KANDI	RANADIH	189	1	128	RIVER	74.4596	
TOTAL AREA						184.2985	

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	180818.5339	2708345.598	24°27' 21.573" N	83°51' 6.240" E
P2	180856.5864	2708360.073	24°27' 22.071" N	83°51' 7.578" E
P3	180858.1487	2708292.724	24°27' 19.886" N	83°51' 7.688" E
P4	180514.5209	2708174.095	24°27' 15.781" N	83°50' 55.597" E
P5	180814.9982	2707713.847	24°27' 1.061" N	83°51' 6.625" E
P6	180695.7807	2706966.199	24°26' 36.700" N	83°51' 3.001" E
P7	181024.986	2706962.98	24°26' 36.839" N	83°51' 14.678" E

Proposed Area in Ha 124 North Koel 3
Proposed Area in Ha 15.3 North Koel 2

- Legend**
- PILLAR POINT
 - PROPOSED GHAT
 - VILLAGE WISE AREA

Proposed Ghat of North Koel - 3 , Block - Kandi, District - Garhwa, JHARKHAND



मिलान चादर नम्बर-१

Ranadih

मशहूर नाम रानाडीह चादर नम्बर-२
 थाना नम्बर १८८
 राजस्व थाना हुसेनाबाद
 पुलिस थाना मभिडाँव
 अंचल मफिआँव
 जिला गढ़वा
 पैमाना १:६२५ मील या १:१०००० २.८१६० मीटर
 सन् २००२-२००३ ई

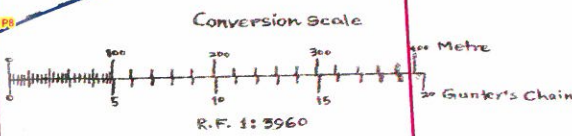
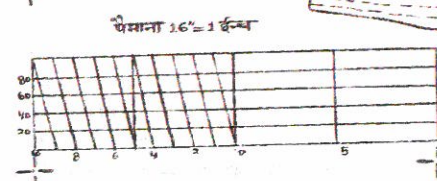
रामबाँध
 नं-१८६

भजनीआ नं-५२०
 थाना हुसेनाबाद

मोहरीन नगर अर्क
 मोहम्मदगंज नं-५२३
 थाना हुसेनाबाद

सरकार के प्राधिकार से निर्मित एवं प्रकाशित

कुरकुटा
 नं-१८९



सोहगडा
 नं-१८८

L.N. Rajak
 भू-माप अधिकारी



Legend
 ● PILLAR POINT
 [Red Outline] PROPOSED GHAT
 [Blue Outline] VILLAGE WISE AREA

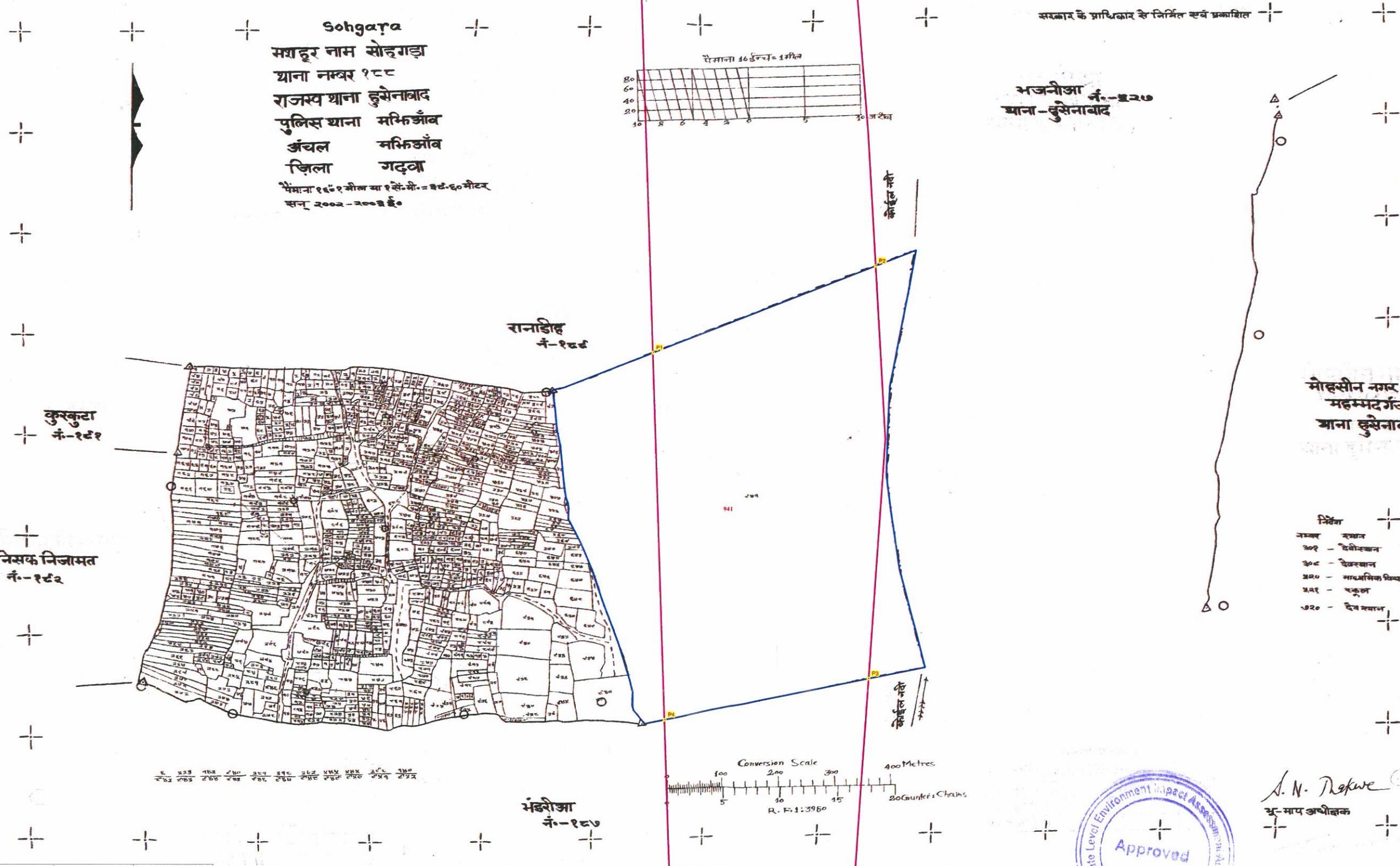
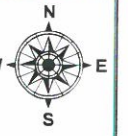
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
KANDI	RANADIH	189	2	3166	RIVER	94.2236	
KANDI	RANADIH	189	2	1628	RIVER	130.4813	
TOTAL AREA						224.7049	

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P6	180695.7807	2706966.199	24°26'36.700" N	83°51'3.001" E
P7	181024.986	2706962.98	24°26'36.839" N	83°51'14.678" E
P8	180710.2698	2705383.731	24°25'45.336" N	83°51'4.792" E
P9	181112.8597	2705544.483	24°25'50.852" N	83°51'18.938" E

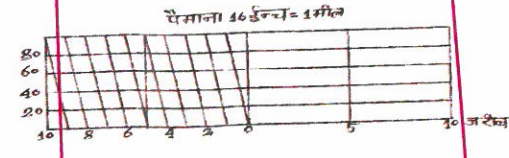
Proposed Area in Ha 124

(Handwritten signatures and initials)

Proposed Ghat of North Koel - 3 , Block - Kandi, District - Garhwa, JHARKHAND



Sohgara
 मशहूर नाम सोहगड़ा
 थाना नम्बर १८८
 राजस्व थाना हुसेनाबाद
 पुलिस थाना मफिजाँव
 अंचल मफिजाँव
 जिला गढ़वा
 पैमाना १ इंच = १ मील या १ से.मी. = ३३.६० मीटर
 सन् २००२ - २००३ ई०



भजनीआ नं-३२७
 थाना-हुसेनाबाद

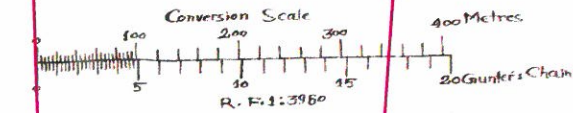
रानाडीह
 नं-१८६

कुरकुटा
 नं-१८१

मंडराजिसक निजामत
 नं-१८२

मोहसीन नगर उर्फ
 महम्मदगंज नं-३३५
 थाना हुसेनाबाद

- प्रिंटा
- ३०१ - देवीस्थान
 - ३०८ - देवरस्थान
 - ३२५ - माधवसिक विद्यालय
 - ३२९ - स्कूल
 - ३२० - देव स्थान



भंडरीआ
 नं-१८७



A. N. Rajwade
 अ-माप अधीक्षक

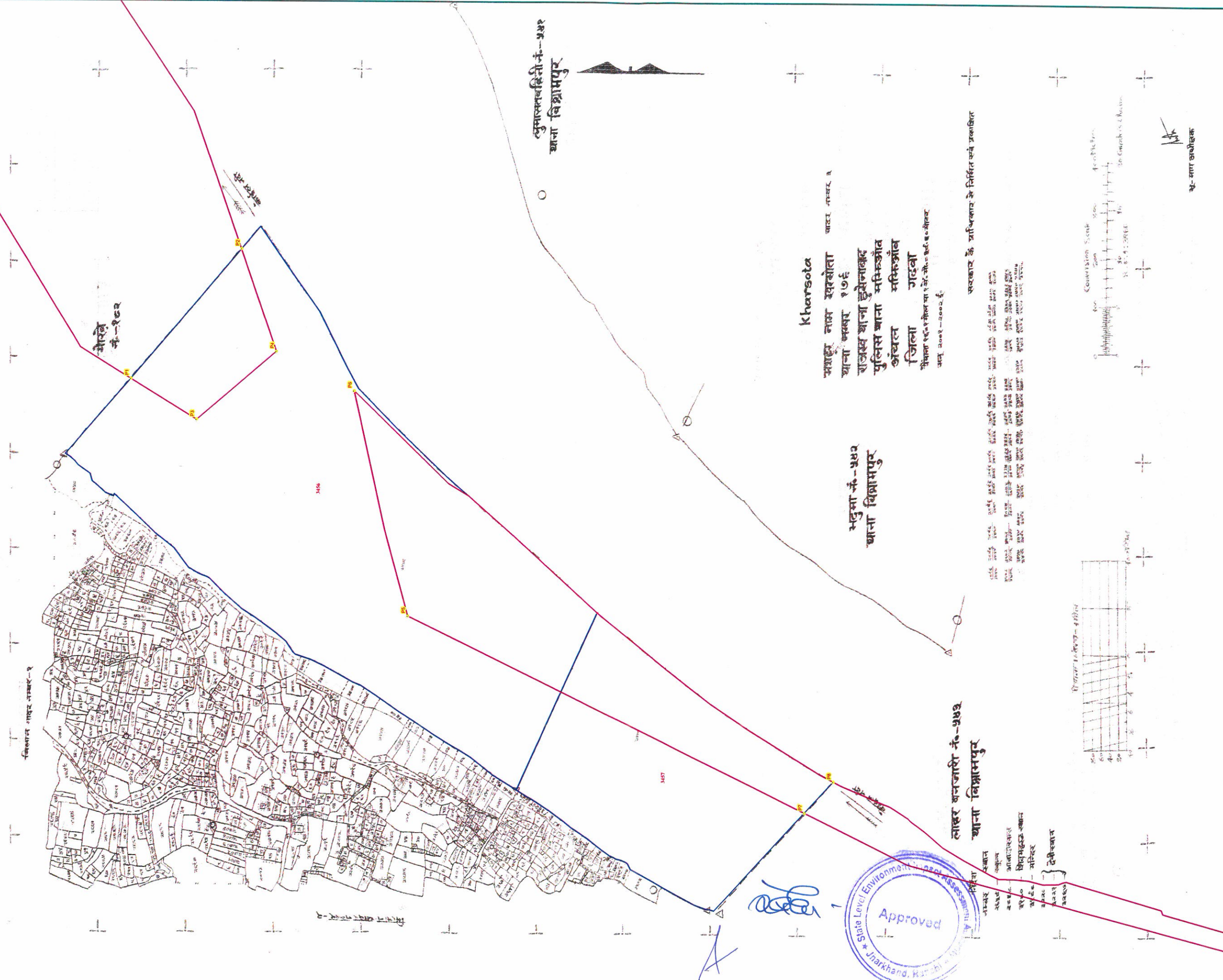
PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	180710.2698	2705383.731	24°25' 45.336" N	83°51' 4.792" E
P2	181112.8597	2705544.483	24°25' 50.852" N	83°51' 18.938" E
P3	181085.4805	2704732.952	24°25' 24.485" N	83°51' 18.621" E
P4	180717.5094	2704661.818	24°25' 21.904" N	83°51' 5.631" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
KANDI	SOHGARA	188	1	941	RIVER	104.50516	
						TOTAL AREA	104.50516

Proposed Area in Ha 124

- Legend**
- PILLAR POINT
 - PROPOSED GHAT
 - VILLAGE WISE AREA

Proposed Ghat of North Koel - 4, 5, Block - Majhiaon, District - Garhwa, JHARKHAND



PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	177570.7453	2700571.069	24° 23' 6.767" N	83° 49' 17.384" E
P2	177839.663	2700312.863	24° 22' 58.584" N	83° 49' 27.126" E
P3	177480.9883	2700422.734	24° 23' 1.884" N	83° 49' 14.323" E
P4	177621.3584	2700235.794	24° 22' 55.920" N	83° 49' 19.451" E
P5	177055.2275	2699940.632	24° 22' 45.916" N	83° 48' 59.024" E
P6	177534.7064	2700057.4	24° 22' 50.064" N	83° 48' 16.524" E
P7	176624.0751	2699029.589	24° 22' 16.018" N	83° 48' 45.085" E
P8	176688.7814	2698963.132	24° 22' 13.909" N	83° 48' 47.432" E

BLOCK NAME	VILLAGENAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA In Acre	REMARKS
MAJHIAON	KHARSOTA	176	3	3457	RIVER	56.51802	
MAJHIAON	KHARSOTA	176	3	3456	RIVER	152.4513	
						TOTAL AREA	208.96932

Proposed Area in Ha 47.7 of North Koel 4
Proposed Area in Ha 57.6 of North Koel 5



लाहरी बजारी नं.-५४३
 थाना विग्रामपुर

- अधिकारी
- अधीन
- आजातकार
- अधीन
- अधीन
- अधीन
- अधीन
- अधीन

Kharsota
 मशहूर नाम खरसोता
 थाना क्र. १७६
 राजस्व थाना हुयेनाबाद
 पुलिस थाना मसिहौंवा
 अंचल मसिहौंवा
 जिला गढ़वा
 भूविभाग १६-१ मील का १ से. नं.-५४३-४०६-४०७
 वन नं. ३०६-२००२-६

भदुसा नं.-५४३
 थाना विग्रामपुर

कुमावतबस्ती नं.-५४३
 थाना विग्रामपुर

सरकार के अधिकार से निर्मित एवं प्रकाशित

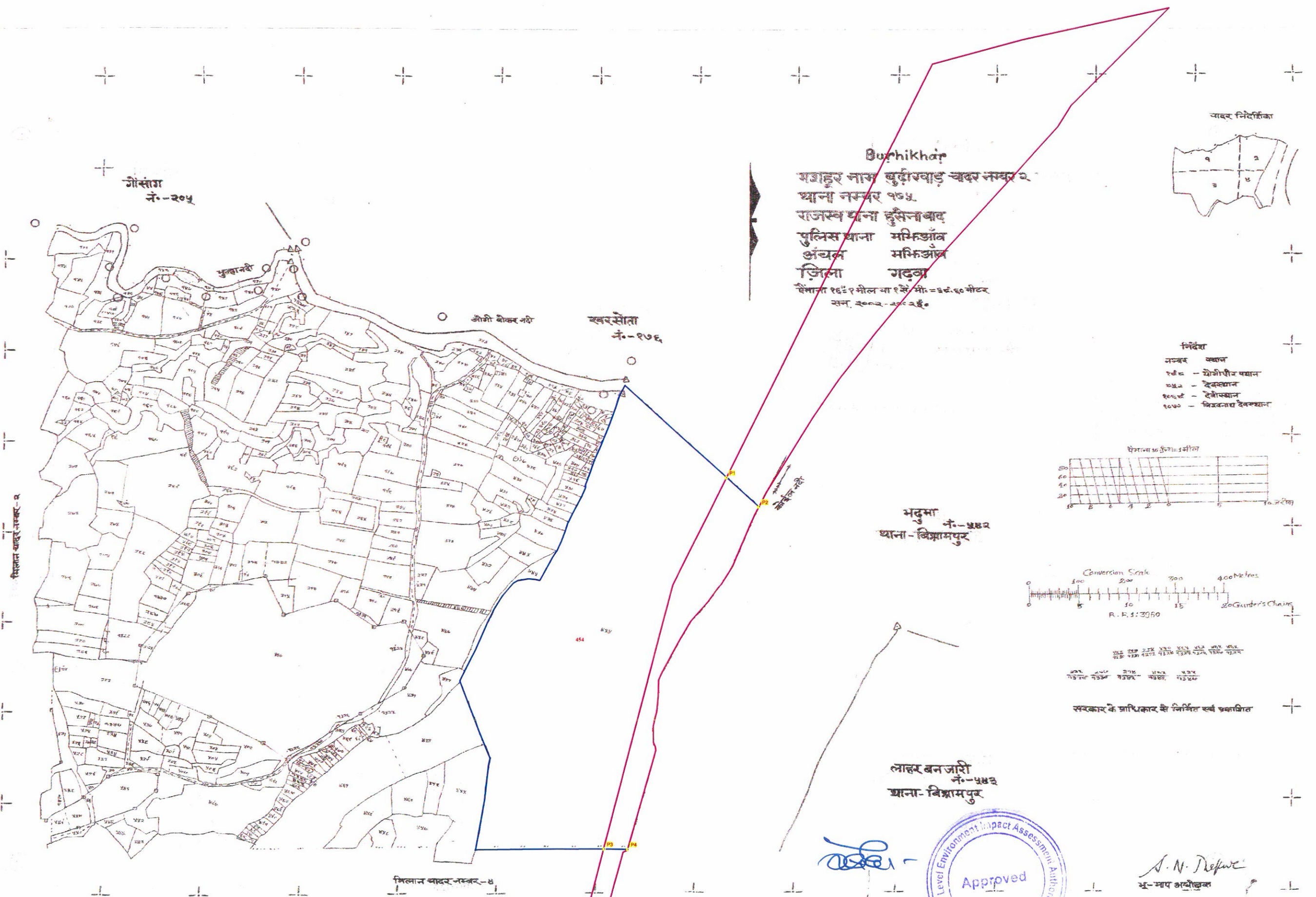
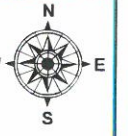


अ-मातृकारीक

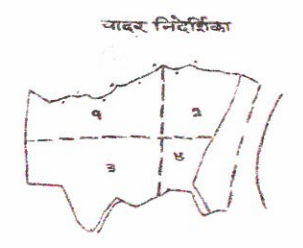
Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

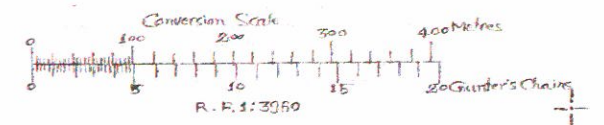
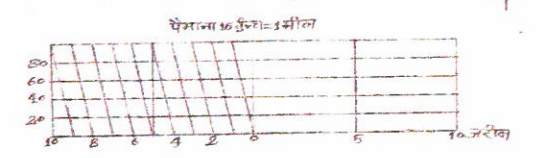
Proposed Ghat of North Koel - 5, Block - Majhiaon, District - Garhwa, JHARKHAND



Burhikhar
 महाहर नाम बुढ़ीखाड़ चकर नम्बर २
 थाना नम्बर १७५
 राजस्व थाना हुसैनाबाद
 पुलिस थाना मफिआब
 अंचल मफिआब
 जिला गढ़वा
 पैमाना १ इंच = १ मील या १ से.मी = ३ इ.६० मीटर
 सन. २००२-२००२ ई.



- निर्देश**
- जम्मा - स्थान
 - १७५ - गौरीपीठ स्थान
 - १७६ - देवस्थान
 - १७७ - देवस्थान
 - १७८ - विजयनाथ देवस्थान



सर्वकार के प्राधिकार से निर्मित सर्व प्रकाशित

भदुमा
 नं.-५४२
 थाना-बिष्णामपुर

लाहर बन जरी
 नं.-५४३
 थाना-बिष्णामपुर



S. N. Dasgupta
 भू-माप अधिकारी

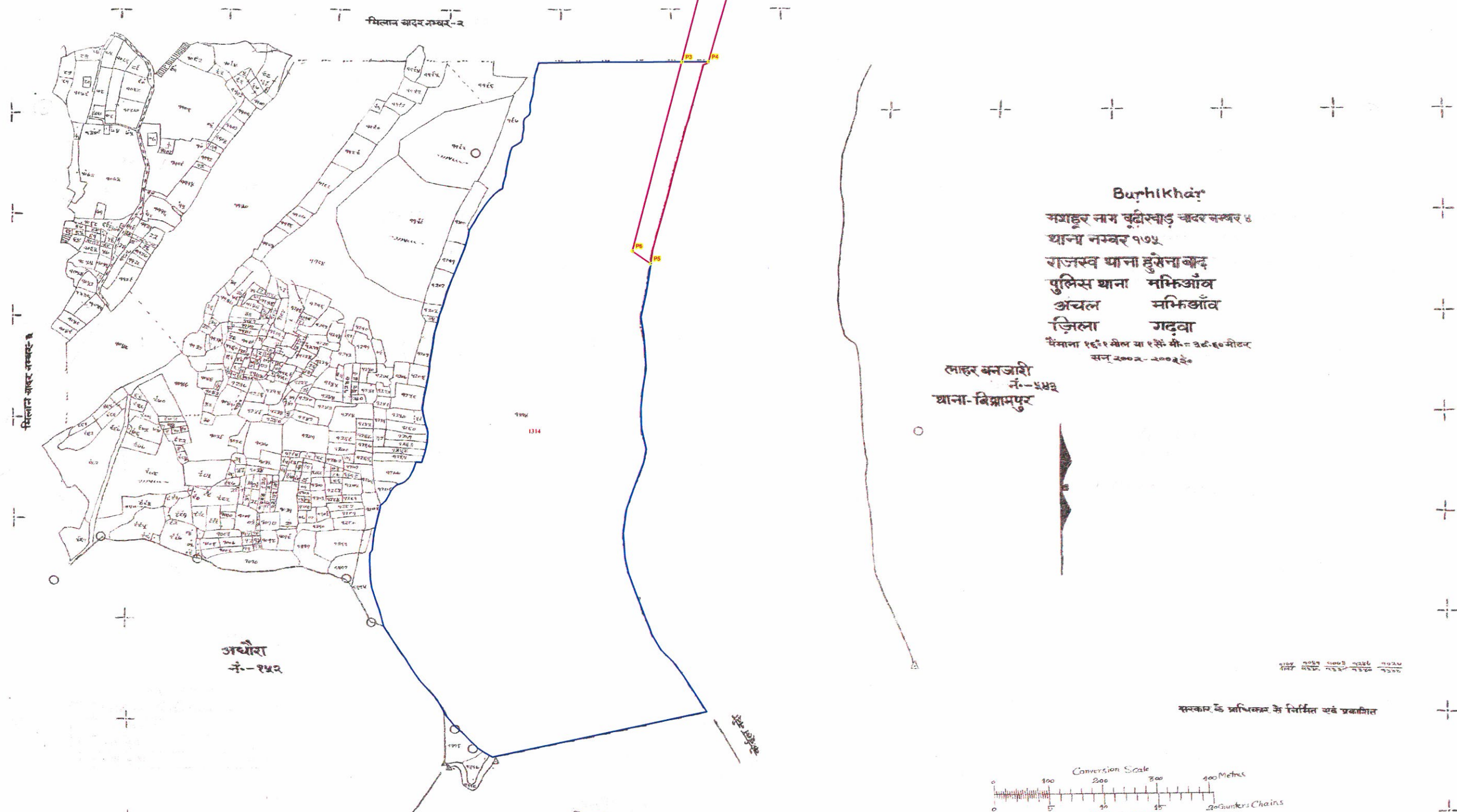
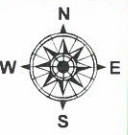
PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	176624.0751	2699029.589	24° 22' 16.018" N	83° 48' 45.085" E
P2	176688.7814	2698963.132	24° 22' 13.909" N	83° 48' 47.432" E
P3	176362.0814	2698211.745	24° 21' 49.272" N	83° 48' 36.466" E
P4	176410.5966	2698210.729	24° 21' 49.275" N	83° 48' 38.186" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
MAJHIAON	BURHI KHAR	175	2	454	RIVER	81.8118	
TOTAL AREA						81.8118	

Proposed Area in Ha 57.6

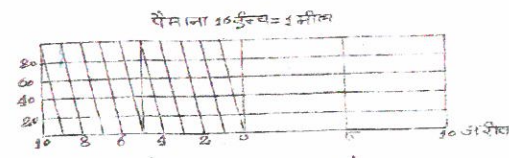
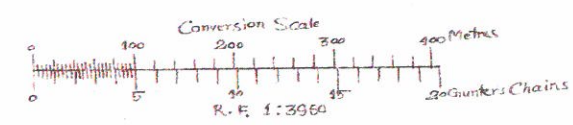
- Legend**
- PILLAR POINT
 - PROPOSED GHAT
 - VILLAGE WISE AREA

Proposed Ghat of North Koel - 5, Block - Majhiaon, District - Garhwa, JHARKHAND



Burhikhar
 मशहूर नाम बुढीखाड़ चदर नम्बर ४
 थाना नम्बर १७५
 राजस्व थाना हुसेना बाँद
 पुलिस थाना मभिखाँव
 अंचल मभिखाँव
 जिला गढ़वा
 पैमाना १ इंच = १ मील या १ सें.मी. = ३३.६० मीटर
 सन् २००२-२००३

लाहुर बनजारी
 नं.-५५३
 थाना-बिग्रामपुर



S.N. Deka
 सू-भाष्य अधिकारी

- Legend**
- PILLAR POINT
 - ▭ PROPOSED GHAT
 - ▭ VILLAGE WISE AREA

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
MAJHIAON	BURHI KHAR	175	4	1314	RIVER	132.9069	
						TOTAL AREA	132.9069

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P3	176362.0814	2698211.745	24° 21' 49.272" N	83° 48' 36.466" E
P4	176410.5966	2698210.729	24° 21' 49.275" N	83° 48' 38.186" E
P5	176296.3466	2697808.727	24° 21' 36.139" N	83° 48' 34.464" E
P6	176263.6797	2697834.747	24° 21' 36.960" N	83° 48' 33.285" E

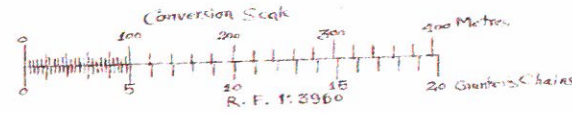
Proposed Area in Ha 57.6

Proposed Ghat of North Koel - 6,7, Block - Majhiaon, District - Garhwa, JHARKHAND



Majhiaon Kalan

मशहूर नाम मफिआव कला घटर नम्बर - १
 स्थान नम्बर १४४
 राजस्व घाना कुसेनाबाद
 पुलिस घाना मफिआव
 अंचल मफिआव
 जिला गढ़वा
 पैमाना १ इंच = १ मील वा १ से.मी. = ३०.४८ मीटर
 सन २००२ - २००४ ई



मफिआव खुर्द
 थाना नं-१४५

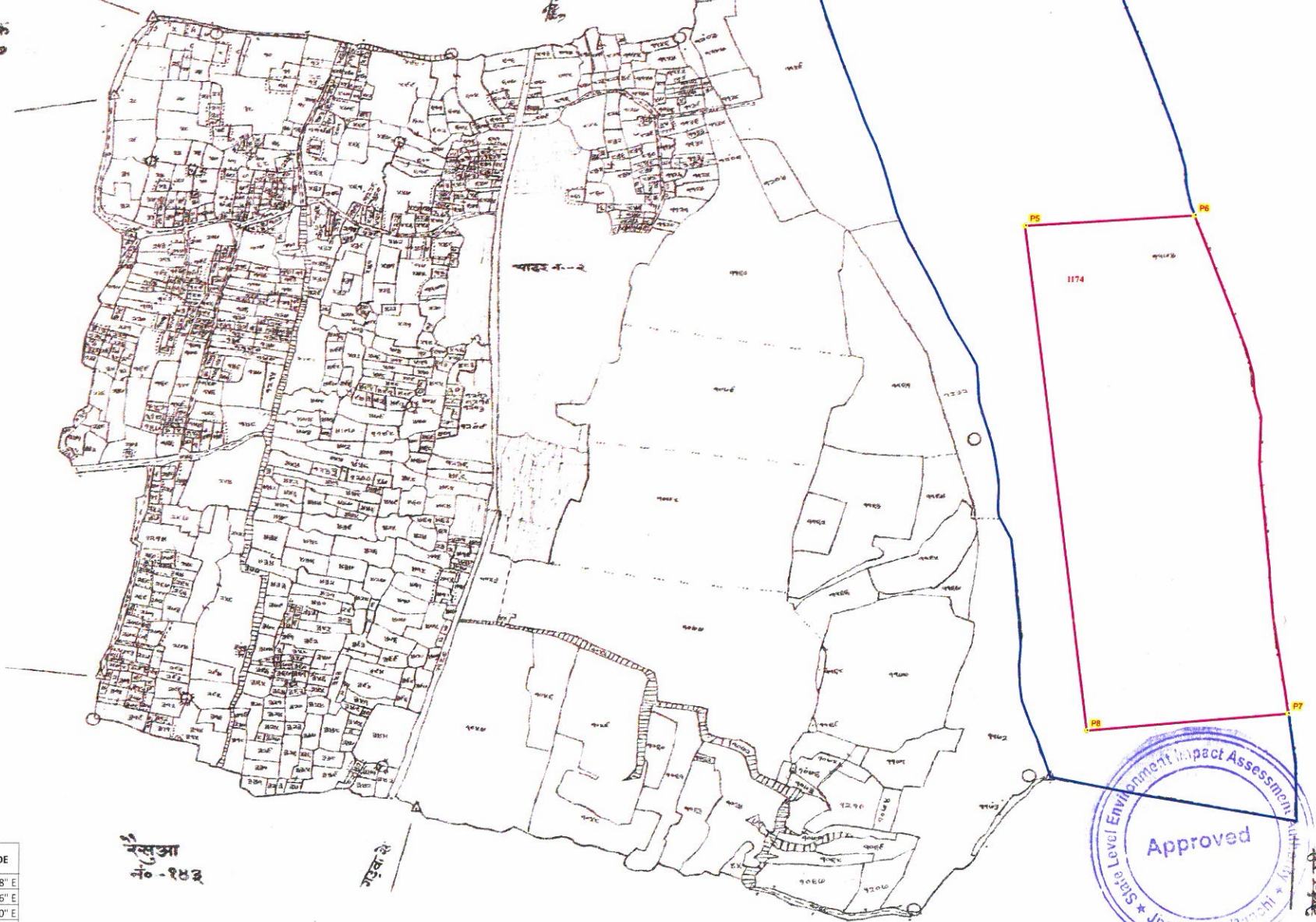
सिड्डीहा नं-५४५
 थाना बिसरामपुर

- गन्दीहा
- २० - आबदीबाद
 - १०६ - देवीबाद
 - २११ - पर्वतबाद
 - २१४ - कल्याण
 - २१५ - अस्मानबाद
 - २१६ - बकुल
 - २१७ - खुर्दबाद
 - ११४० - इमरानघाट
 - १०५ - कपिलान

कुटमु नं-१
 थाना बिसरामपुर

पीरवीचक
 नं-१४७

चन्दरी
 नं-१४८



जयलक्ष्मी के प्रतिपत्तन के निर्मित एवं प्रकथित

1174	1174	1174	1174	1174	1174
1174	1174	1174	1174	1174	1174
1174	1174	1174	1174	1174	1174
1174	1174	1174	1174	1174	1174
1174	1174	1174	1174	1174	1174
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1174	1174	1174	1174	1174	1174
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1174	1174	1174	1174	1174	1174



जमडीहा नं-२
 थाना बिसरामपुर

भू-साधक

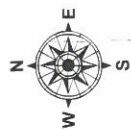
PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	177866.6799	2694398.264	24°19' 46.589" N	83°49' 32.878" E
P2	177988.1033	2694465.229	24°19' 48.853" N	83°49' 37.126" E
P3	177977.9294	2694249.88	24°19' 41.854" N	83°49' 36.940" E
P4	178030.4724	2694273.29	24°19' 42.653" N	83°49' 38.783" E
P5	177926.9218	2693839.144	24°19' 28.482" N	83°49' 35.465" E
P6	178142.9567	2693848.761	24°19' 28.955" N	83°49' 43.111" E
P7	178251.8257	2693154.924	24°19' 6.510" N	83°49' 47.529" E
P8	177994.8497	2693136.377	24°19' 5.717" N	83°49' 38.440" E

Proposed Area in Ha 10.9 of North Koel 6
 Proposed Area in Ha 20.9 of North Koel 7

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA In Acre	REMARKS
MAJHIAON	MAJHIAON KALAN	144	1	1174	RIVER	117.6431	
TOTAL AREA						117.6431	

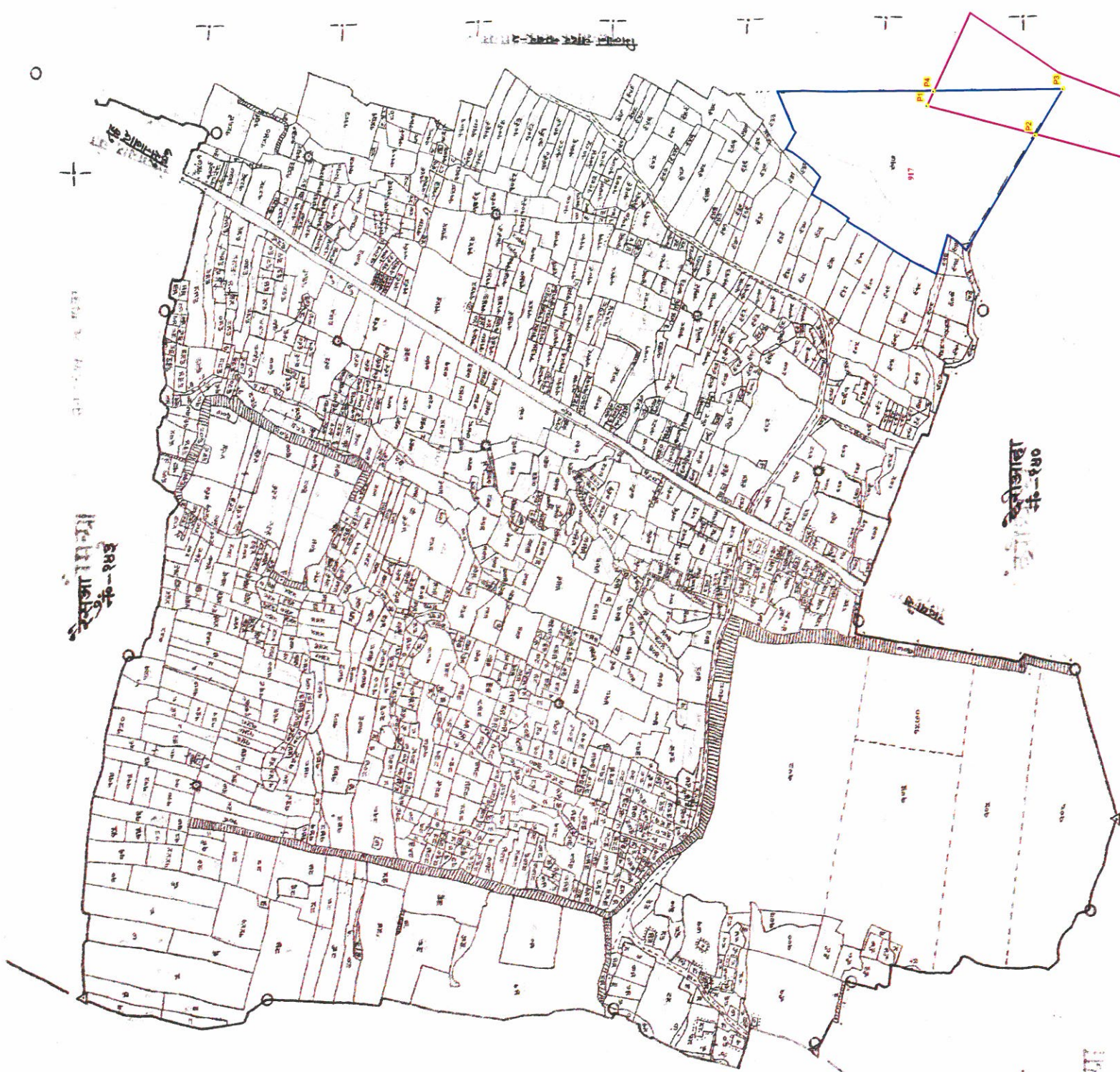
- Legend
- PILLAR POINT
 - PROPOSED GHAT
 - VILLAGE WISE AREA

Proposed Ghat of North Koel - 8, Block - Majhiaon, District - Garhwa, JHARKHAND



Bakoia

खाहर नाम बकोइआ
 खाहर नम्बर-९
 थाना नम्बर १४९
 राजस्व थाना हुसेनाबाग
 पुलिस थाना सभिकुआब
 अंचल सभिकुआब
 जिला गढ़वा
 मैदान १६६९ बीघा या ९ हे.मी. = ८६.९० बीघर
 सन् २००९ - २००२ ई.

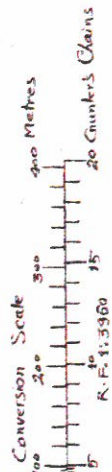
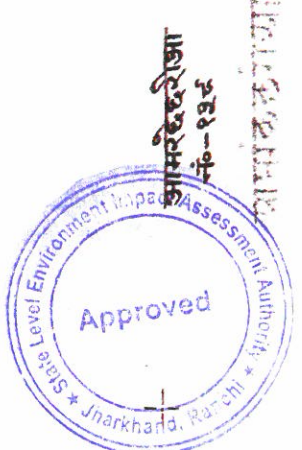


खण्ड

कर मंडीह
 नं-१४२

अनुमोदित

नियंत्रण
 नम्बर -
 २६ -
 ७३६ -
 २२८ -
 ११२३ -



सर्वकार के अधिकार से निर्मित एवं प्रकाशित

पु. गा. अ. अधिकार

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	177058.6462	2691722.627	24°18' 19.126" N	83°49' 6.419" E
P2	177013.7778	2691560.644	24°18' 13.834" N	83°49' 4.961" E
P3	177077.5397	2691517.965	24°18' 12.496" N	83°49' 7.254" E
P4	177078.9867	2691712.03	24°18' 18.797" N	83°49' 7.148" E

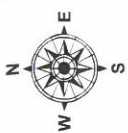
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
MAJHIAON	BAKOIA	141	1	917	RIVER	16.4874	
						TOTAL AREA	16.4874

Proposed Area in Ha 4.38

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of North Koel - 8, Block - Majhiaon, District - Garhwa, JHARKHAND



Bakia

सहाय्य नगर बकौइसा खण्ड नगर म.
 ग्रामा नखर १४१
 राजावा थाना कुसेनाबाद
 पुलिस थाना मफिकौन
 अंचल नमिकाब
 जिला गढ़वा
 विमान १६६१ मील का १ से.मी.का ४.०६० मीटर
 स्तम्भ

जम्मीआव कला
 नं०-१४४

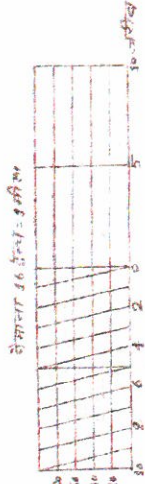
कुदुमा नं०-१
 थाना बिसरामपुर

जमडीहा नं०-२
 थाना बिसरामपुर

निर्देश
 नखर १४६७ - जम्मीआव
 १४४० - नखर

कन्स्टा नं०-७
 थाना बिसरामपुर

संरचना के प्रतिकार से निर्मित एवं स्थायित्व



PILLAR_NO	EASTING	NORTHING	NOTHING	LATITUDE	LONGITUDE
P3	177077.5397	2691517.965	24°18'12.495"N	83°49'7.254"E	
P4	177078.9867	2691712.03	24°18'18.797"N	83°49'7.148"E	
P5	177187.1197	2691655.697	24°18'17.048"N	83°49'11.024"E	
P6	177092.8242	2691507.734	24°18'12.175"N	83°49'7.804"E	

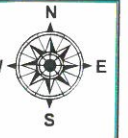
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
MAJHIAON	BANGIA	141	2	1549	RIVER	77.8876	
						TOTAL AREA	77.8876

Proposed Area in Ha 4.38

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of North Koel - 8, Block - Majhiaon, District - Garhwa, JHARKHAND



Chheriaha
 गाँव नाम चैरीआहा
 थाना नम्बर १४०
 राजस्व थाना हुसैनाबाद
 पुलिस थाना मन्डिआंव
 अंचल मन्डिआंव
 जिला गढ़वा
 थाना १६-१ मील का १ से.मी. = २००-६० मीटर
 सन् २००१-२००२ ई.

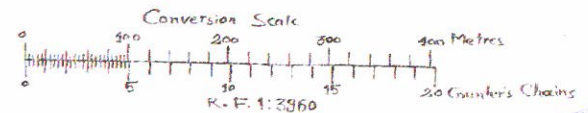
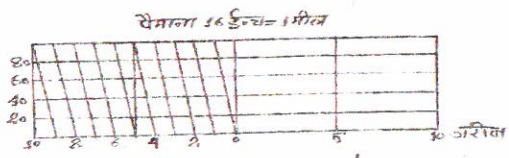
बकीइआ
 नं-१४१

करकटा नं-१७
 थाना बिसरामपुर

आमरदेहरिआ
 नं-१३८

जोगा नं-८
 थाना बिसरामपुर

मिथित
 नम्बर २१ - स्थान
 आरादीम्बल



PILLAR NO	EASTING	NOTHING	LATITUDE	LONGITUDE
P1	177013.7778	2691560.644	24°18' 13.834" N	83°49' 4.961" E
P2	177092.8242	2691507.734	24°18' 12.175" N	83°49' 7.804" E
P3	176995.7101	2691247.226	24°18' 3.645" N	83°49' 4.575" E
P4	176959.079	2691194.102	24°18' 1.893" N	83°49' 3.321" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
MAJHIAON	CHHERIAHA	140	1	146	RIVER	51.1219	
						TOTAL AREA	51.1219

Proposed Area in Ha 4.38



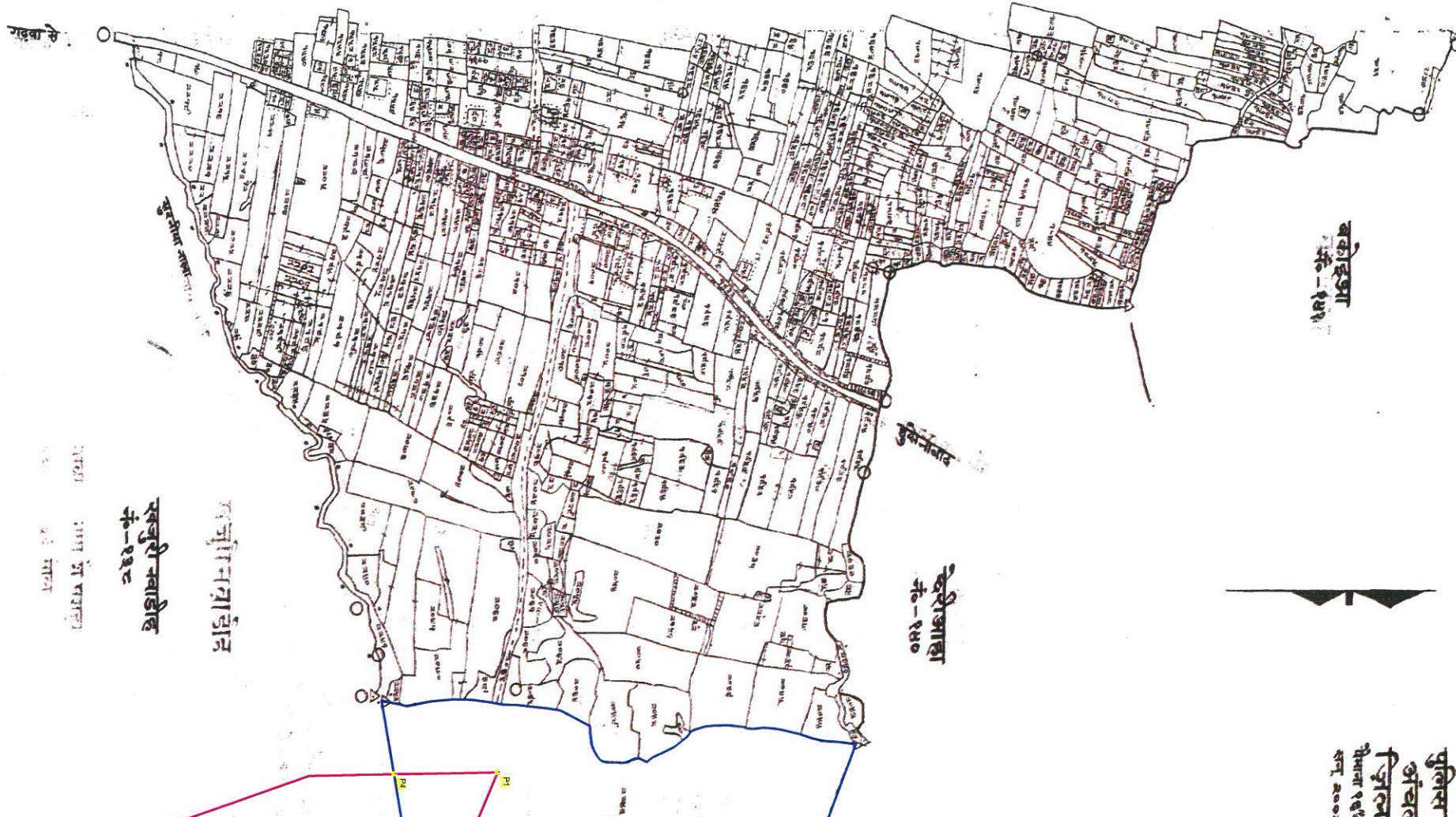
- Legend**
- PILLAR POINT
 - PROPOSED GHAT
 - VILLAGE WISE AREA

Proposed Ghat of North Koel - 9, Block - Majhaon, District - Garhwa, JHARKHAND

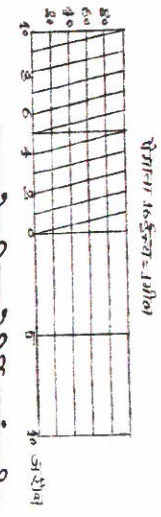


Amarchhacharia
 गणेश्वर नाम आगर हरीश्या चन्द नरसुर २
 थाना नमवर १३८
 राजस्व थाना हुरीनाबाद
 पुलिस थाना सभिनजांव
 अंचल सभिकर्जाव
 जिला गढ़वा
 थाना १६६१ सोन या १ से के-१६६-१००१०२
 सन २००२-२००६ ई

पारदर्शी
 जल संकलन
 प्रयोज्य - कृषि
 पक्का - अमराठी कानन
 रोड - मुकाल्टर क्षेत्रपाल



जिला
 थाना विस्तारमपुर



संस्कार के परिष्कार से निर्मित सर्व प्रकाशित

A.N. Rajak
 जिला कार्यालय

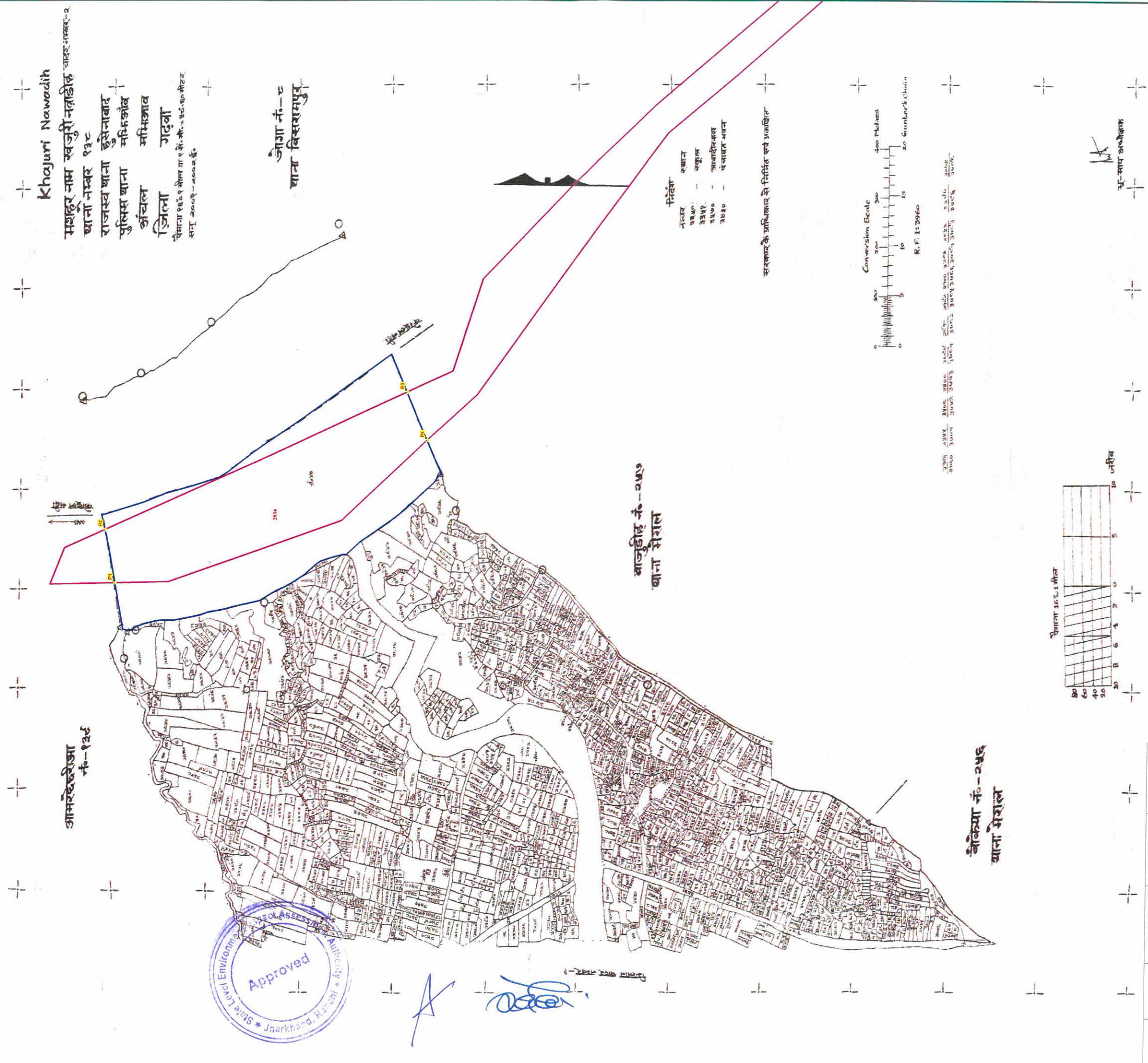
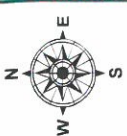
PILLAR NO	EASTING	NOTHING	LATITUDE	LONGITUDE
P1	176643.3143	2690580.115	24° 17' 41.726" N	83° 48' 52.634" E
P2	176714.8027	2690546.311	24° 17' 40.682" N	83° 48' 55.193" E
P3	176749.1894	2690457.497	24° 17' 37.824" N	83° 48' 56.483" E
P4	176642.3874	2690438.901	24° 17' 37.141" N	83° 48' 52.715" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PICT NO	LAND TYPE	AREA in Acre	REMARKS
MAJHAON	AMAR CHECHHARIA	139	2	2243	RIVER	30.8325	
TOTAL AREA						30.8325	

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

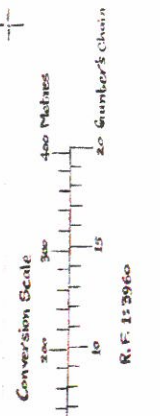
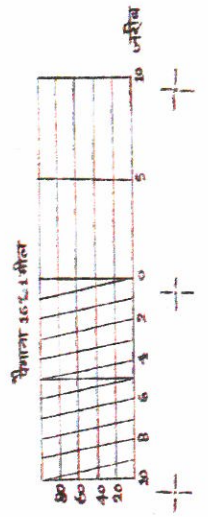
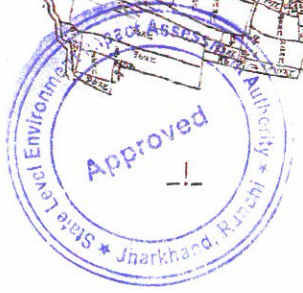
Proposed Ghat of North Koel - 9, Block - Majhiaon, District - Garhwa, JHARKHAND



जोगा नं.-८
 थाना बिसरामपुर

बाजुडीह नं.-२५१०
 थाना भैराल

बोकिया नं.-२५६
 थाना भैराल



Legend

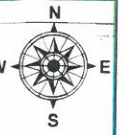
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P-1	176642.3874	2690438.901	24° 17' 37.141" N	83° 48' 52.715" E
P-2	176749.1894	2690457.497	24° 17' 37.824" N	83° 48' 56.483" E
P-3	177007.8881	2689796.522	24° 17' 16.558" N	83° 49' 6.182" E
P-4	176910.6494	2689755	24° 17' 15.138" N	83° 49' 2.771" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA In Acre	REMARKS
MAJHIAON	KHAJURI NAWADIH	138	2	2934	RIVER	47.7261	
TOTAL AREA						47.7261	

Proposed Area in Ha 22.5

Proposed Ghat of North Koel - 9, Block - Meral, District - Garhwa, JHARKHAND



Bajudih
 मशहूर नाम बाजुडीह
 थाना नम्बर 257
 राजस्व थाना गढ़वा
 पुलिस थाना मेराल
 अंचल मेराल
 जिला गढ़वा
 पैमाना १ इंच = १ मील या १ से.मी. = ३८.६० मीटर
 सन् २००८-२०१० ई०

खजुरीनाबडीह
 नं-१३८
 थाना - भिकौराव

सहसपुरा
 नं-६
 थाना - बिग्रामपुर

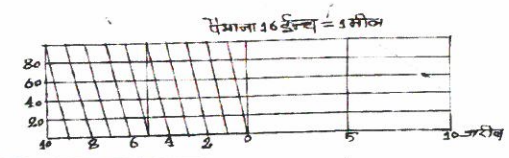
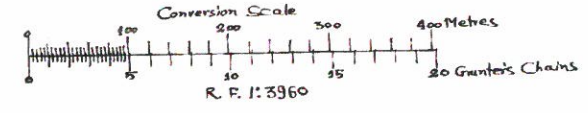
- निर्देश
- १०० - खेड़ीस्थान
 - १०१ - " "
 - १६० - स्कूल
 - २६५ - अकादमिक
 - ३१० - कर्मस्थान
 - ७२६ - विद्यालय स्थान
 - ७४३ - देवीस्थान

अटोला
 नं-२५८

सर्वेक्षण का विवरण
 १. सर्वेक्षण का प्रकार
 २. सर्वेक्षण का दिनांक
 ३. सर्वेक्षण का स्थान
 ४. सर्वेक्षण का उद्देश्य
 ५. सर्वेक्षण का विस्तार

सरकार के प्राधिकार से निर्मित एवं प्रकाशित

निर्देशक
 भू-साप अधीक्षक



PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	176910.6494	2689755	24°17' 15.138" N	83°49' 2.771" E
P2	177007.8881	2689796.522	24°17' 16.558" N	83°49' 6.182" E
P3	177430.1882	2689291.094	24°17' 0.462" N	83°49' 21.548" E
P4	177482.6388	2689348.721	24°17' 2.372" N	83°49' 23.359" E

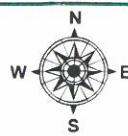
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA In Acre	REMARKS
MERAL	BAJUDIH	257	1	1	RIVER	36.288	
						TOTAL AREA	36.288



- Legend**
- PILLAR POINT
 - PROPOSED GHAT
 - VILLAGE WISE AREA

Proposed Area in Ha 22.5

Proposed Ghat of North Koel - 10, Block - Garhwa, District - Garhwa, JHARKHAND



सोगसोगी
थाना बिश्रामपुर

Patsi

खण्ड संकेत नाम और नम्बर पतसी 206

कलेक्ट्रेट क्षेत्राध्य नम्बर ८७

मशहूर नाम पतसी

थाना गढ़वा नम्बर 202

परगना: पलामू

तप्पा गढ़वाल

ज़िला पलामू

पैमाना वर्तमान फी मील १६ इंच

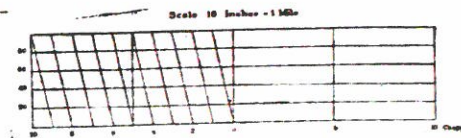
सन १९१४ - १५ ईस्वी

चमराही

नमूना खानासत

1	यह निशान फी मील वर्तमान में क्या था	1/2
2	मकान में स्थिति	1/2
3	पक्का कुंवा	1/2
4	कच्चा कुंवा	1/2

नम्बर नाम और स्थान
४८ साइर देवस्थान

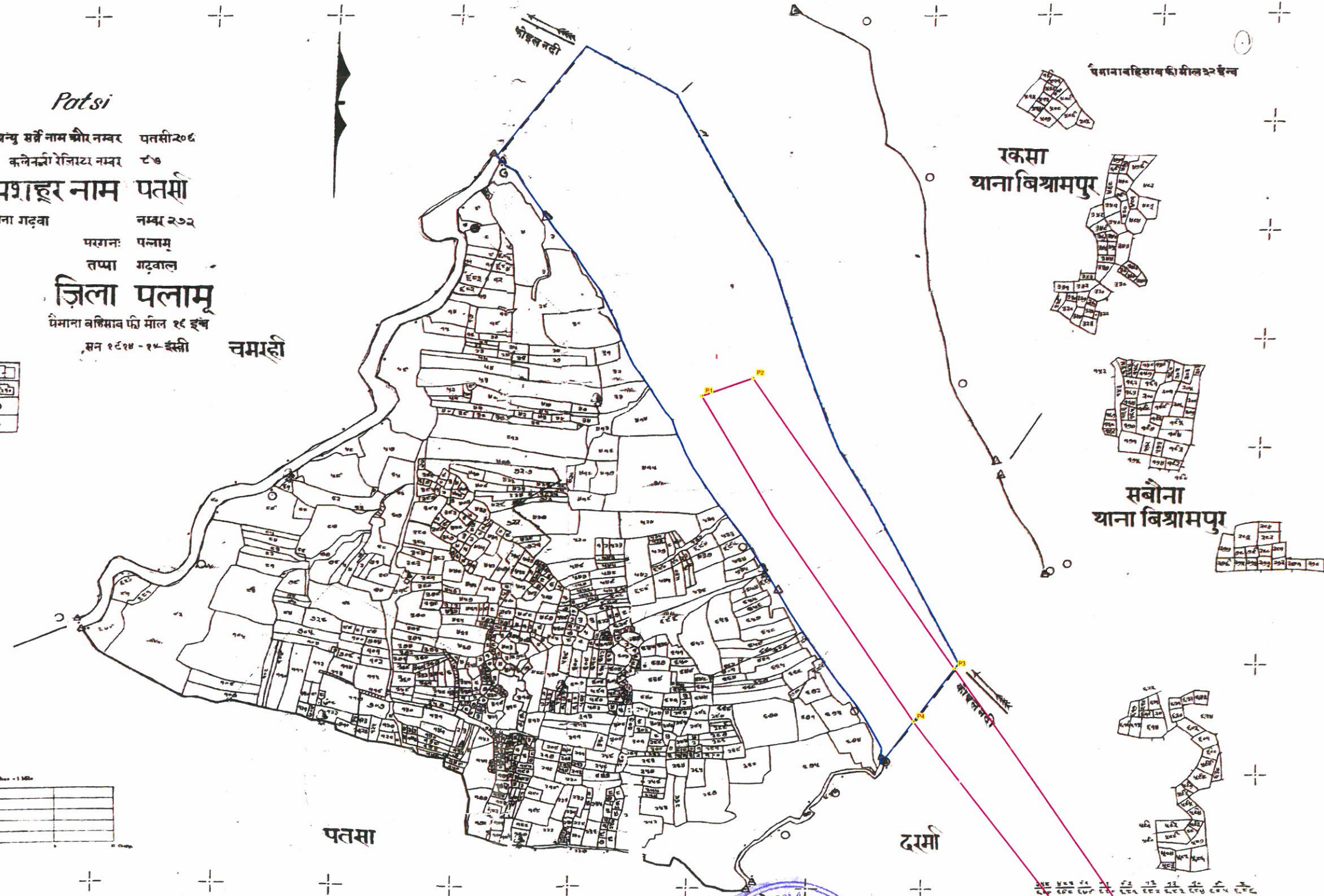


PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	180789.5036	2684644.834	24°14' 32.094" N	83°51' 24.243" E
P2	180875.8007	2684676.507	24°14' 33.186" N	83°51' 27.273" E
P3	181211.1578	2684134.65	24°14' 15.839" N	83°51' 39.580" E
P4	181140.8131	2684038.609	24°14' 12.669" N	83°51' 37.166" E

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BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
GARHWA	PATSI	272	1	1	RIVER	80.2183	
						TOTAL AREA	80.2183

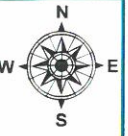
Proposed Area in Ha 16.8



T. W. Bridge
Superintendent of Survey

- Legend
- PILLAR POINT
 - PROPOSED GHAT
 - VILLAGE WISE AREA

Proposed Ghat of North Koel - 10, Block - Garhwa, District - Garhwa, JHARKHAND



Made and Published Under The Authority of Government.

Darmi
 शैल्यु सर्वे नाम और नम्बर देरमा १३६
 कलेक्ट्री रेजिस्ट्र नम्बर २७

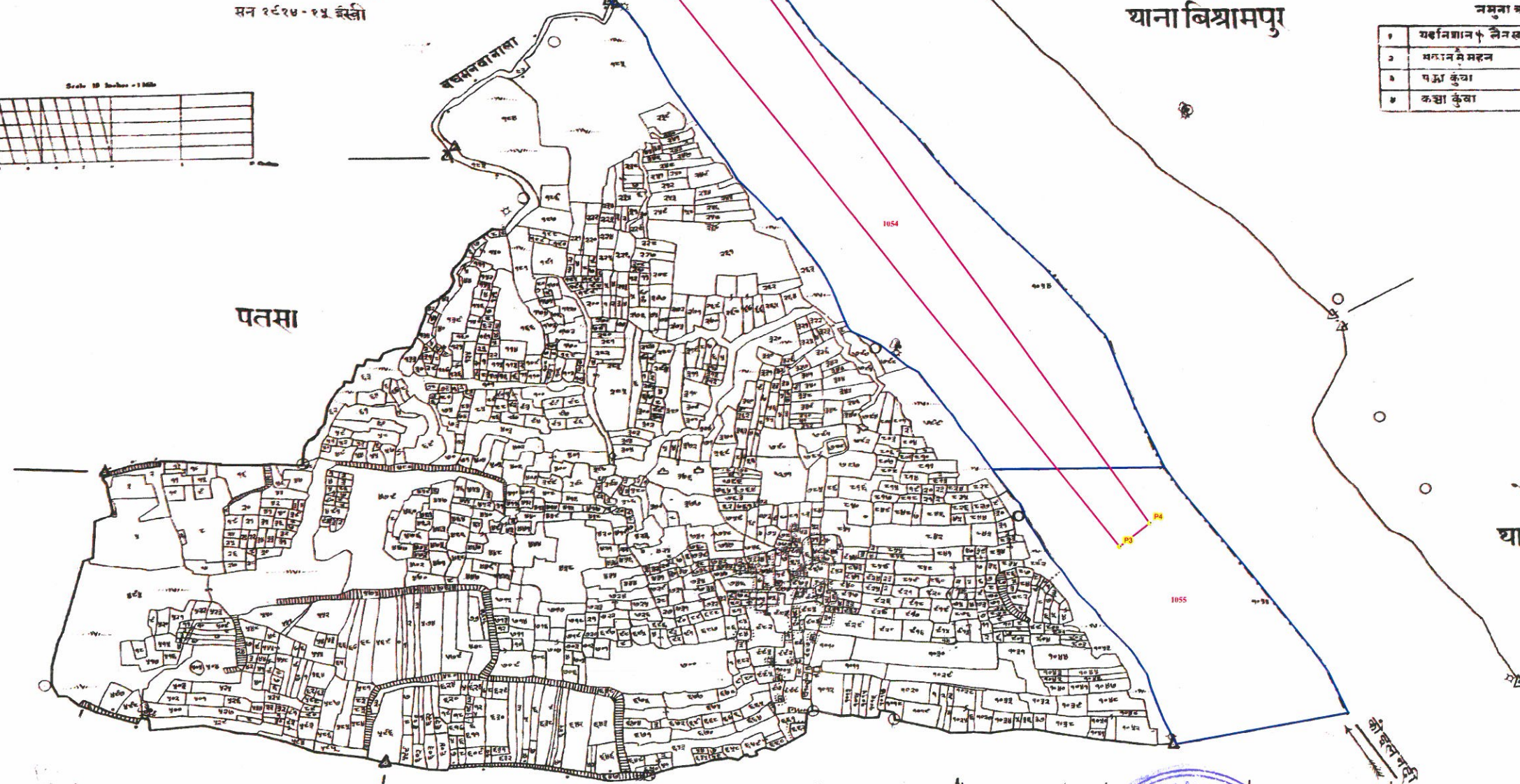
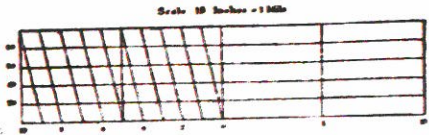
मशहूर नाम दरमा
 थाना गढ़वा नम्बर २७४

परगना: पलामू
 तप्पा गढ़वाल
ज़िला पलामू पतमा
 पैमाना बलिमाव पेज मील २६ इंच
 सन १९१४-१५ ईस्वी

नम्बर नाम
 ३७६ कबरीस्तान
 ६५६ अबादी खाम
 ६६० मखीद

नमुना कायमासत

१	घरनिशान के लिये खारिज मभाजायगा	+
२	मगान मे सहन	+
३	पड़ा कुवा	○
४	कसा कुवा	○



रहलाकलां
 थाना बिश्रामपुर

प्रतापपुर

नवाडीह



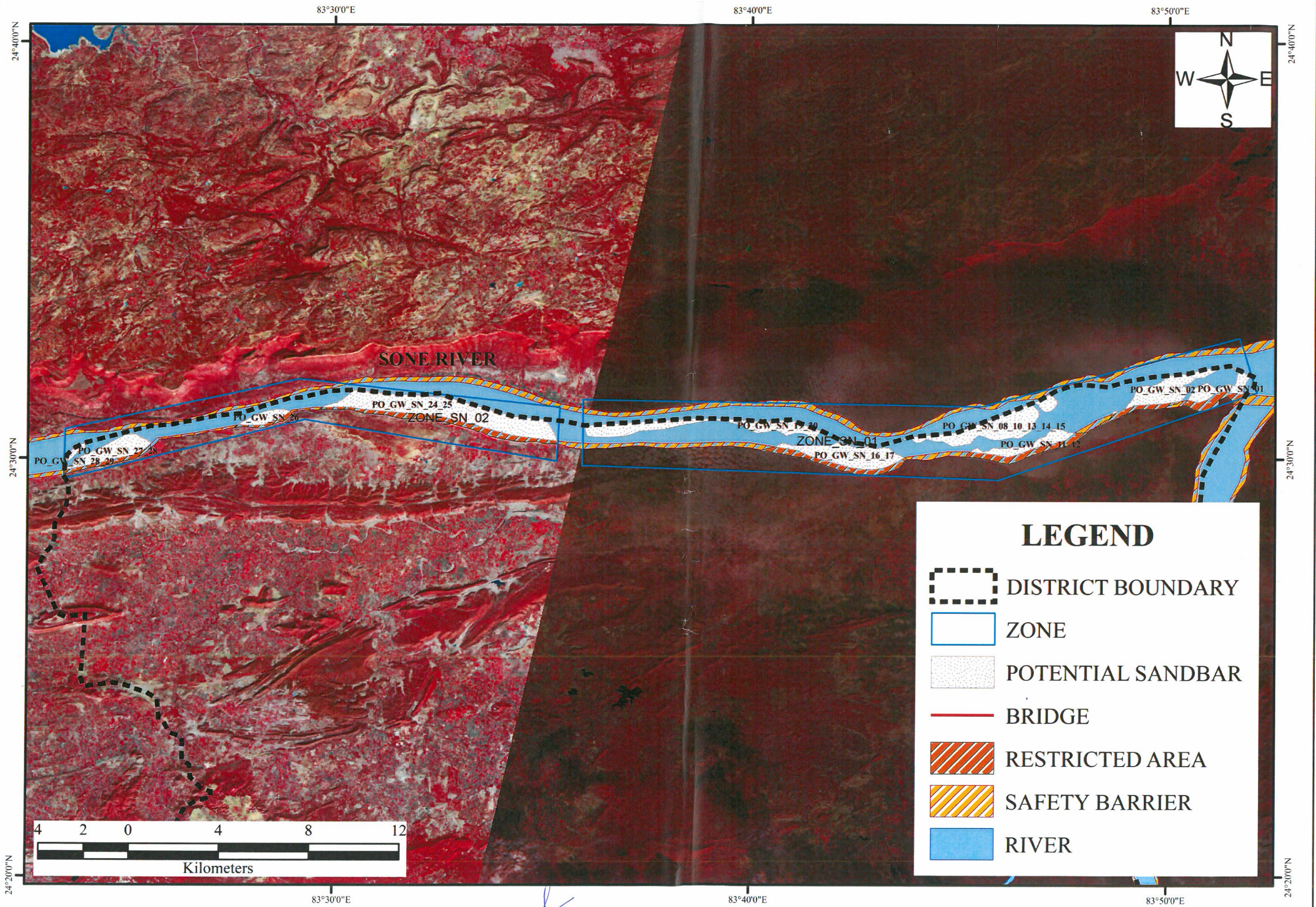
T.W. Bridge
 Superintendent of Survey.

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	181140.8131	2684038.609	24°14' 12.669" N	83°51' 37.166" E
P2	181211.1578	2684134.65	24°14' 15.839" N	83°51' 39.580" E
P3	181793.6884	2683106.051	24°13' 42.869" N	83°52' 1.023" E
P4	181836.8236	2683141.328	24°13' 44.046" N	83°52' 2.522" E


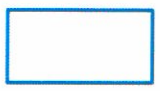





BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
GARHWA	DARMI	274	1	1054	RIVER	57.3404	
GARHWA	DARMI	274	1	1055	RIVER	25.7541	
TOTAL AREA						83.0945	

Proposed Area in Ha 16.8

- Legend**
- PILLAR POINT
 - ▭ PROPOSED GHAT
 - ▭ VILLAGE WISE AREA



LEGEND

-  DISTRICT BOUNDARY
-  ZONE
-  POTENTIAL SANDBAR
-  BRIDGE
-  RESTRICTED AREA
-  SAFETY BARRIER
-  RIVER

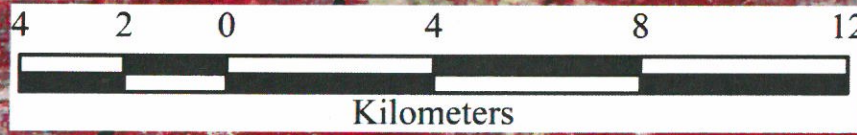


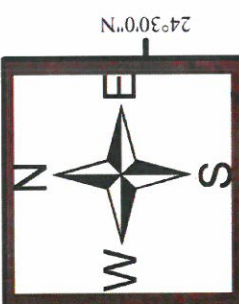
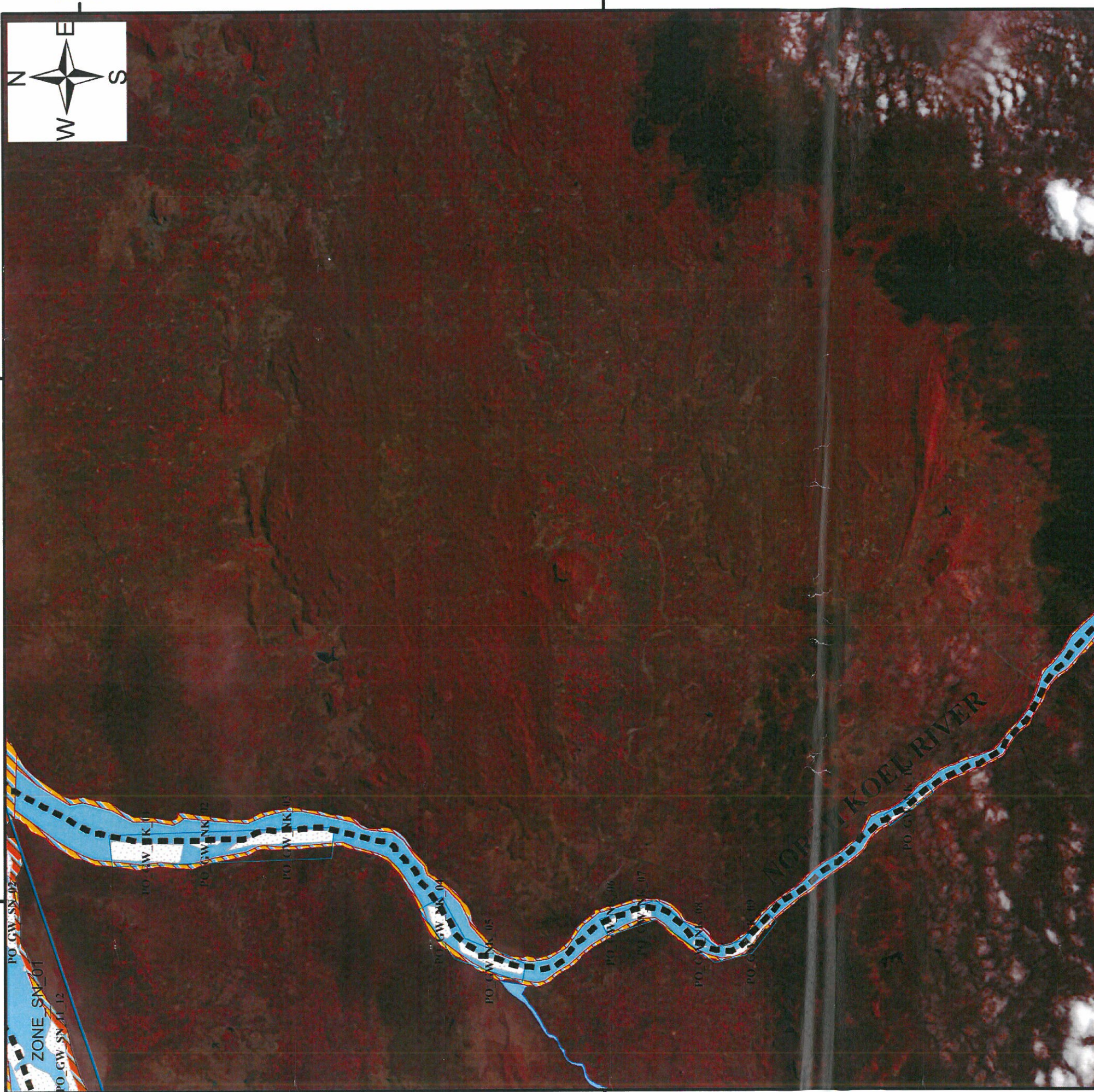
Plate D
(Composite Map of Sone River)










[Handwritten signature]

84°00'E

83°50'0"E



LEGEND

-  DISTRICT_BOUNDARY
-  ZONE
-  POTENTIAL SANDBAR
-  BRIDGE
-  RESTRICTED AREA
-  SAFETY BARRIER
-  RIVER



24°30'0"N

24°20'0"N

24°10'0"N

83°50'0"E

84°00'E

Plate E
(Composite Map of North Koel River)



[Handwritten signature]

[Handwritten mark]

83°40'E

83°30'E

24°0'N

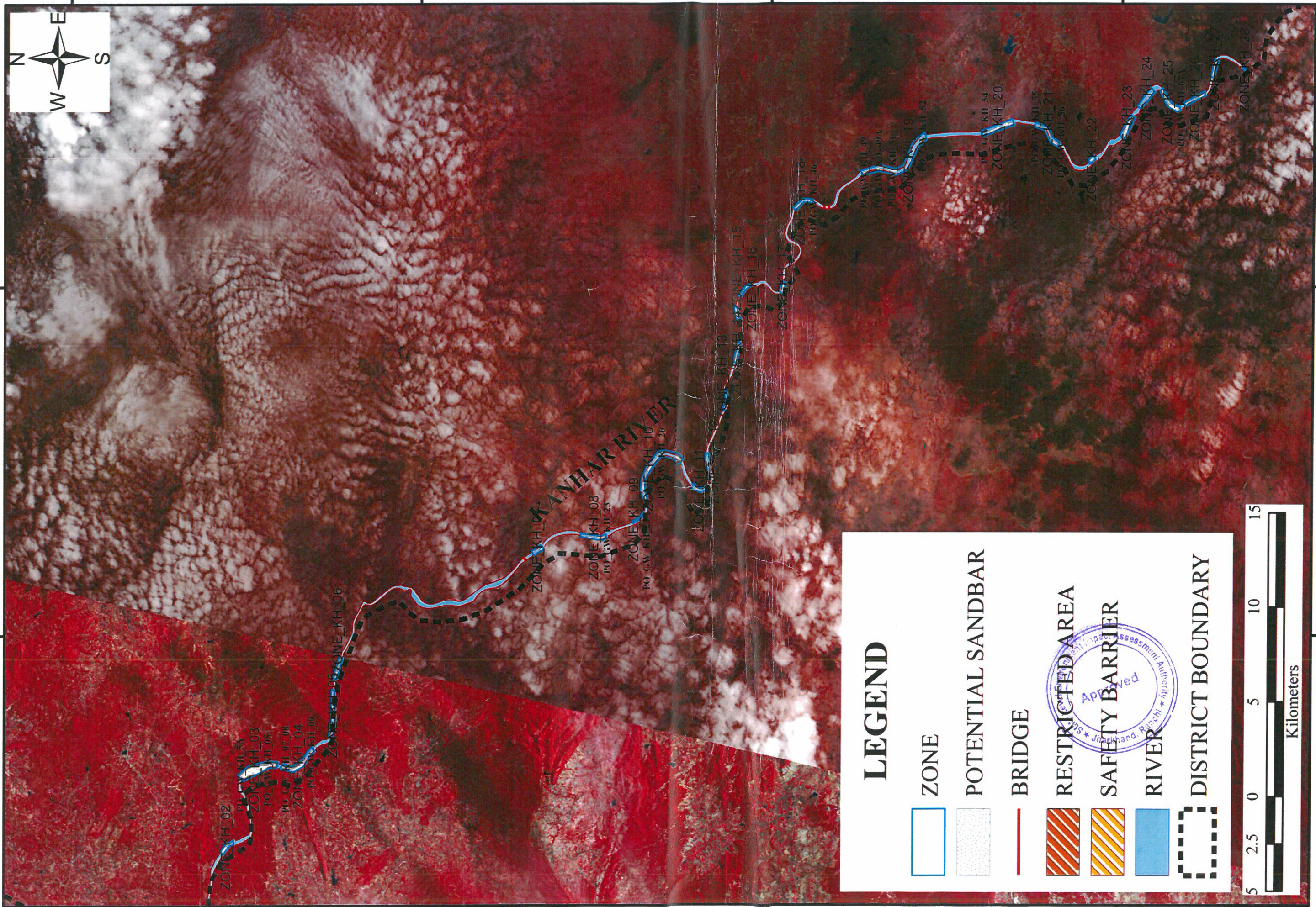
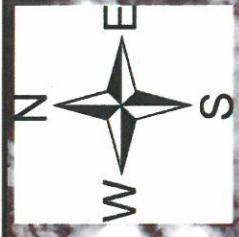
24°0'N

23°50'N








23°50'N

23°40'N

23°40'N



LEGEND

-  ZONE
-  POTENTIAL SANDBAR
-  BRIDGE
-  RESTRICTED AREA
-  SAFETY BARRIER
-  RIVER
-  DISTRICT BOUNDARY



83°40'E

83°30'E

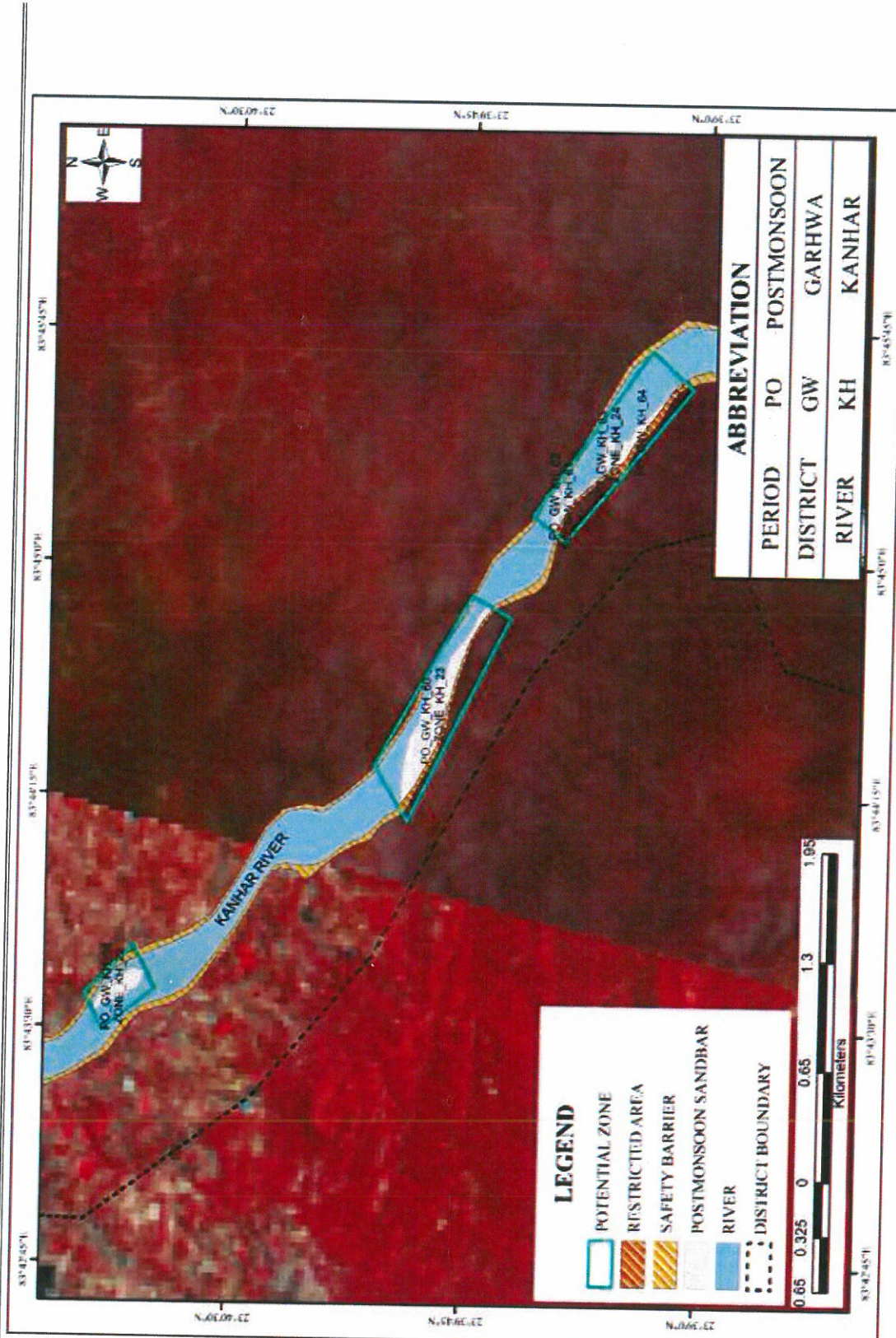


Plate No. B23: Plate showing potential Zone in post-monsoon

(Handwritten signature and initials)



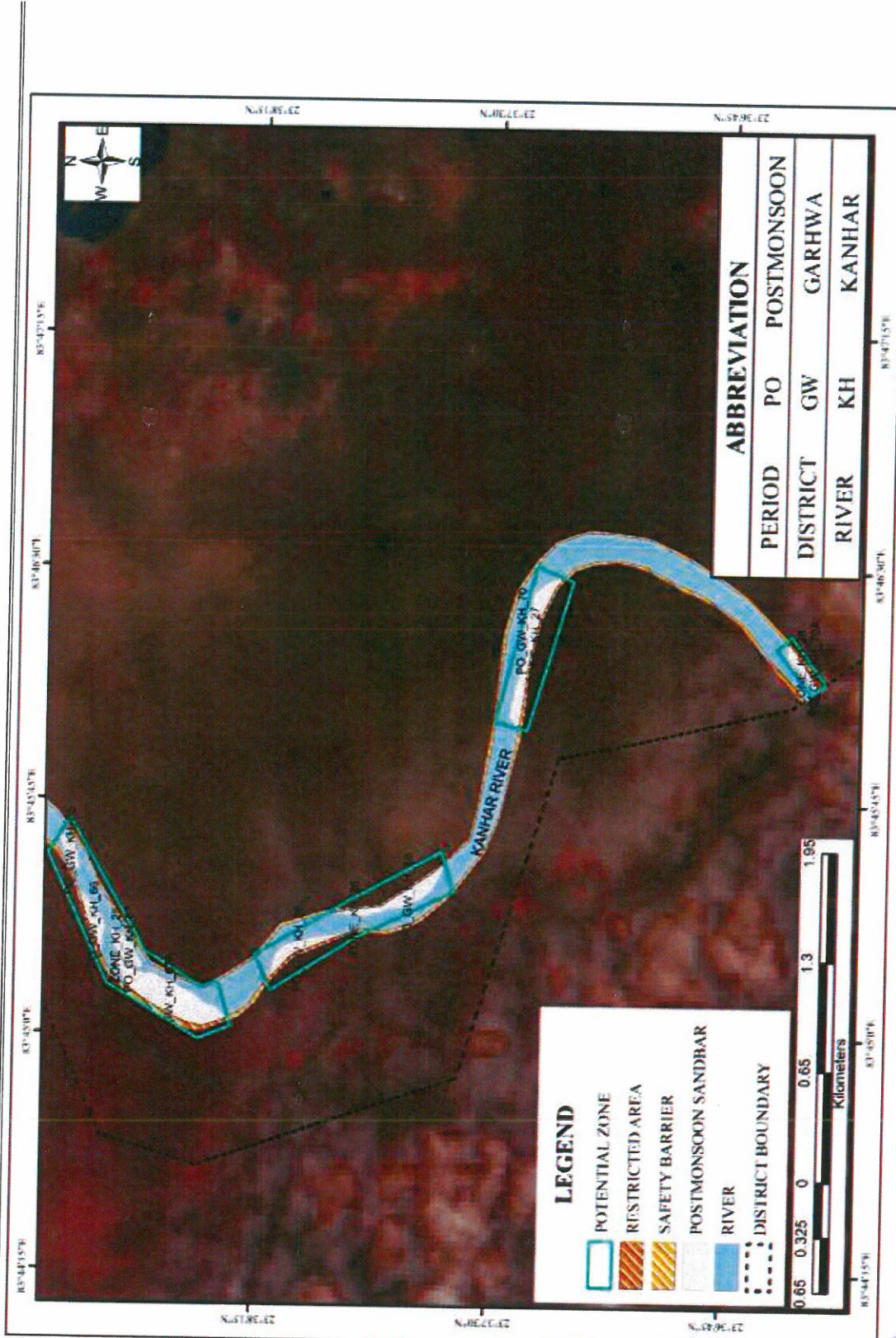


Plate No. B24: Plate showing potential Zone in post-monsoon

(Handwritten signature and initials)



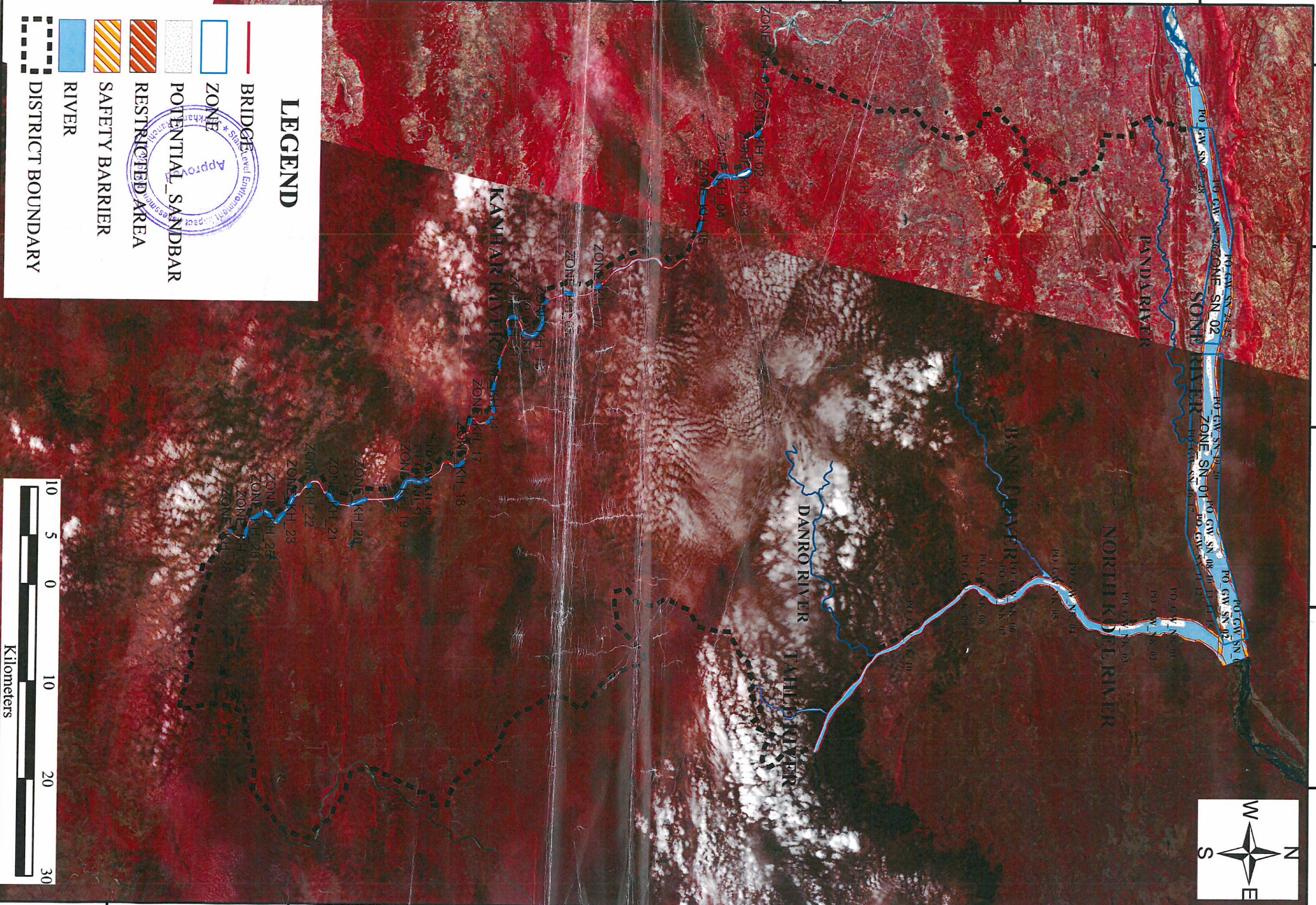
Plate C
**(Cadastral Map of Sone, Koel &
Kanhra River)**

[Handwritten signature]



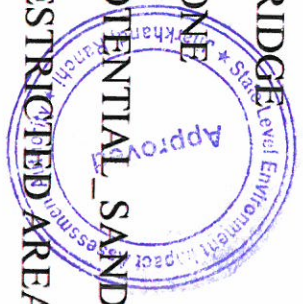
23°30'0"N 23°40'0"N 23°50'0"N 24°0'0"N 24°10'0"N 24°20'0"N 24°30'0"N

83°20'0"E 83°30'0"E 83°40'0"E 83°50'0"E 84°0'0"E



LEGEND

- BRIDGE
- ZONE
- POTENTIAL SANDBAR
- RESTRICTED AREA
- SAFETY BARRIER
- RIVER
- DISTRICT BOUNDARY



83°20'0"E 83°30'0"E 83°40'0"E 83°50'0"E 84°0'0"E

23°30'0"N 23°40'0"N 23°50'0"N 24°0'0"N 24°10'0"N 24°20'0"N 24°30'0"N



झारखण्ड सरकार
खान एवं भूतत्व विभाग
जिला खनन कार्यालय, गढ़वा।

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 कोटे वाले कारियाम क्या रजिस्टर-II में अंजल ड्राइंग के रूप में दर्ज है?	
2.	क्या 500 मीटर की दूरी के अंदर कोई मानव बसत (Habitation) स्थित है?	
3.	क्या 500 मीटर की दूरी के अंदर कोई जलोय निकाय (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 अस्पताल (Hospital) स्थित है?	
7.	क्या 10 कि०मी० की परिधि में कोई अंतरराज्यीय (Interstate) सीमा है?	
8.	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/प्रागैतिक (Monuments/Archaeological) महत्व 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 अरक्षित 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 किलो मीटर की दूरी के अंदर कोई नैसर्गिक पार्क है?	
4.	क्या परियोजना स्थल से 10 किलो मीटर की दूरी के अंदर कोई अभयारण्य एवं जैव विविधता क्षेत्र है?	
5.	क्या परियोजना स्थल से 10 किलो मीटर की दूरी के अंदर कोई इको संवेदनिक जोन (Eco Sensitive Zone) है?	
6.	क्या आवेदित परियोजना ESZ के अंतर्गत प्रबंधित भूमी में आता है अथवा नहीं?	


11.4.2023
District Assistant Mining Officer
Garhwa
DISTRICT MINING OFFICER
Garhwa



Distance from Bridge from Proposed Ghat of Garhwa District

SL No.	River	Name of Proposed Ghat	Area (Ha)	Distance From Bridge
1	Son	Son Ghat 1	83.4	1.5 Km
2		Son Ghat 2	99.7	There is no bridge within 1 Km radius
3		Son Ghat 3	86	There is no bridge within 1 Km radius
4		Son Ghat 4	213	There is no bridge within 1 Km radius
5		Son Ghat 5-1	71.3	There is no bridge within 1 Km radius
6		Son Ghat 5-2	58.5	There is no bridge within 1 Km radius
7		Son Ghat 06	44.7	There is no bridge within 1 Km radius
8		Son Ghat 07	154	There is no bridge within 1 Km radius
9	North Koyal	North Koyal Ghat 1	145	2.25 Km
10		North Koyal Ghat 2	15.3	There is no bridge within 1 Km radius



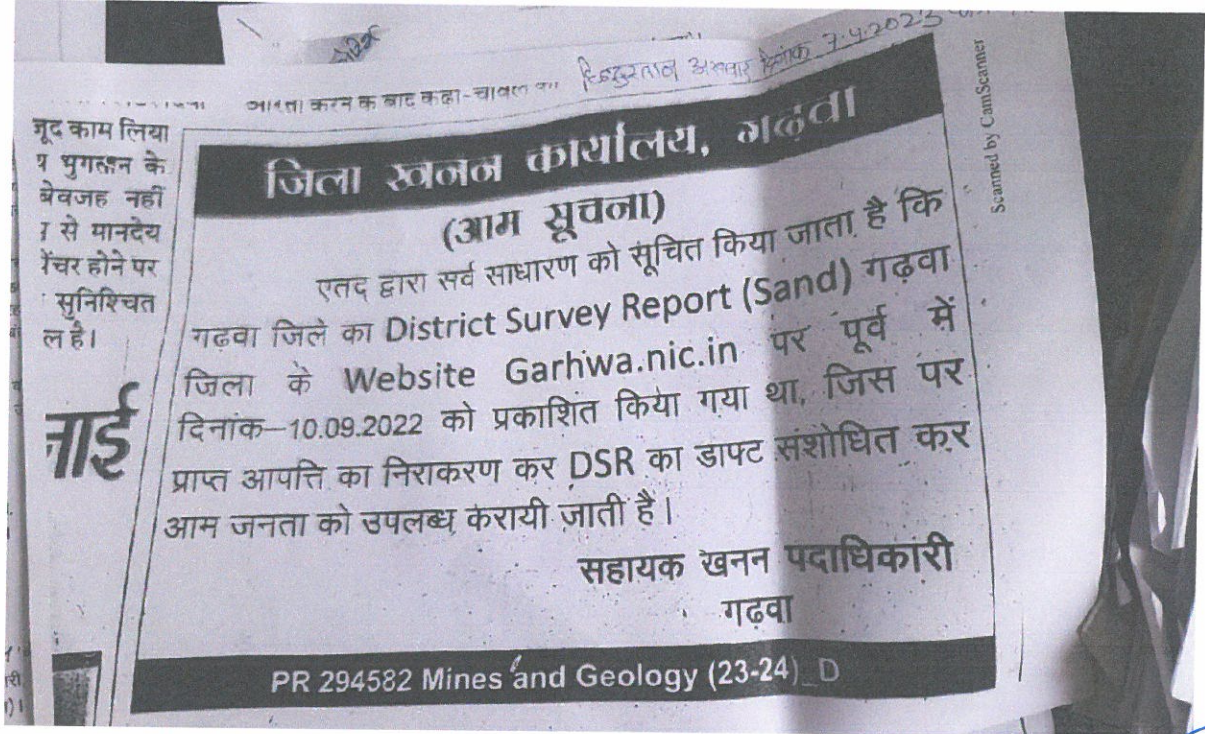



11		North Koyal Ghat 3	124	1.02 Km
12		North koyal Ghat 4	47.7	There is no bridge within 1 Km radius
13		North Koyal Ghat 5	57.6	1.9 Km
14		North Koyal Ghat 6	10.9	1.2 Km
15		North Koyal Ghat 7	20.9	There is no bridge within 1 Km radius
16		North Koyal Ghat 8	4.38	There is no bridge within 1 Km radius
17		North Koyal Ghat 9	22.5	There is no bridge within 1 Km radius
18		North Koyal Ghat 10	16.8	1.05 Km

A

[Signature]
3/4/2023





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।

६०/-
निदेशक, भूतत्व झारखण्ड, राँची

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

