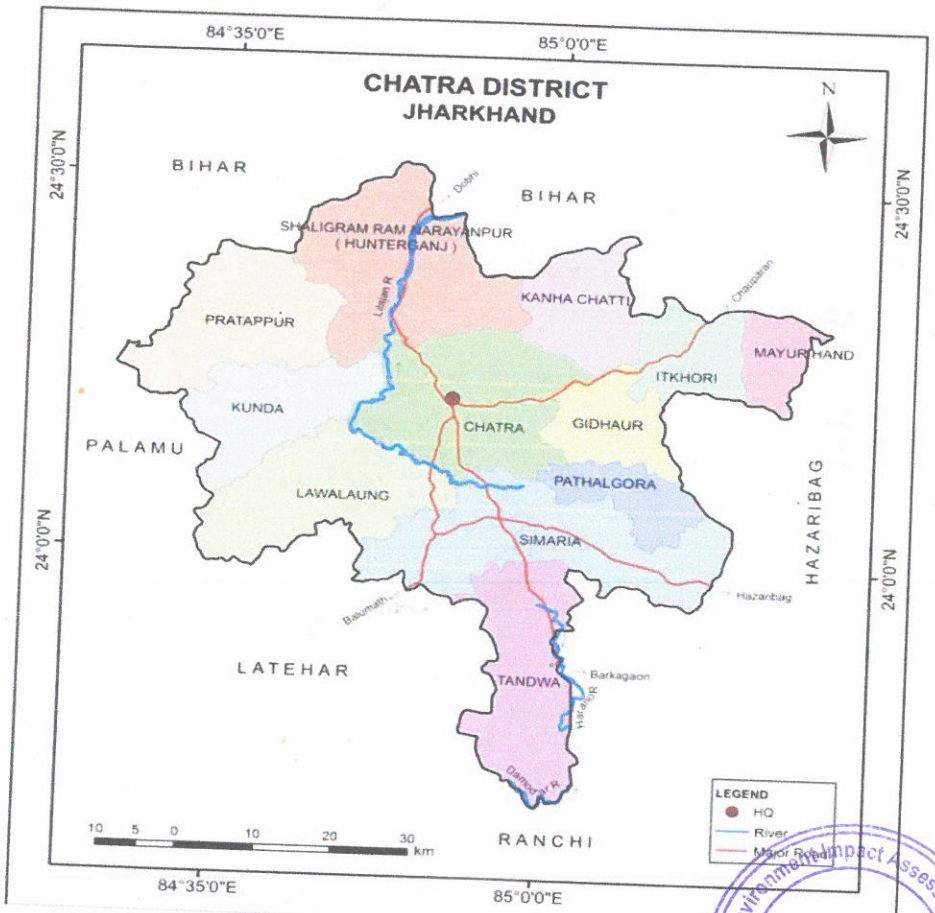
DISTRICT SURVEY REPORT (DSR) FOR SAND MINERAL OF CHATRA DISTRICT, JHARKHAND

(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

State Level Environment Impact Assessment Authority
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Jharkhand, Ranchi

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The Deputy Commissioner though letter 116 /M, Chatra, , dated 07.02.2023 had constituted a Sub-Divisional Committee to verified the District Survey Report prepared by Environmental Consultant. List of the members of the Sub-Divisional Committee is as follows:

क्र.सं.	पदाधिकारी	हस्ताक्षर
I.	अपर समाहर्ता, चतरा।	
II.	वन प्रमंडल पदाधिकारी, उत्तर वन प्रमंडल चतरा।	12/04/2023
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VIII.	सहायक निदेशक भूतत्व, हज़ारीबाग।	12/04/2023
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उपायुक्त,
चतरा।

28/04/2023

Member
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28/04/2023

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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 Chatra 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 Chatra 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 Chatra 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 District Survey Report is in conformity with the Sustainable Sand Mining Guidelines, 2016 & Enforcement & Monitoring Guidelines for Sand Mining (EMGSM) 2020 issued by MOEF&CC.

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

The objectives of the District Survey Report are as following:

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

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10. To design a scientific mining plan and estimate ultimate pit limit.
11. To frame a comprehensive guideline for mining of sand and other minor minerals.

The District Survey report (DSR) is comprised of 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 though its letter 116/ Chatra, dated 07-02-2023 had constituted the sub-divisional committee to verified the District Survey Report prepared by Environmental Consultant. List of the members of the sub-divisional Committee is shown below:

क्र.सं.	पदाधिकारी
I.	अपर समाहर्ता, चतरा।
II.	वन प्रमंडल पदाधिकारी, उतर वन प्रमंडल, चतरा।
III.	वन प्रमंडल पदाधिकारी, दक्षिण वन प्रमंडल चतरा।
IV.	वन प्रमंडल पदाधिकारी, वन प्राणी आश्रणयी, हज़ारीबग।
V.	अनुमंडल पदाधिकारी, चतरा।
VI.	अनुमंडल पदाधिकारी, सिमरिया।
VII.	जिला खनन पदाधिकारी, चतरा।
VIII.	सहायक निदेशक, भूतत्व, हज़ारीबाग।
IX.	कार्यपालक अभियंता, लघु सिंचाई प्रमंडल, चतरा।
X.	क्षेत्रीय पदाधिकारी, JSPCB, हज़ारीबाग।

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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.
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.

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Year	Particulars
2017	Jharkhand Minerals (Concession, Prevention of Illegal Mining, Transportation and Storage) Rules, 2017. The notification stated about the prevention of Illegal mining, transportation and storage of sand and guidelines for mining activity, safety barriers, mining depth and lease. 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.
2018	MoEF & CC published a notification S.O. 3611(E) Dated 25th July, 2018 and recommended the format for District Survey Report. The notification stated about the objective of DSR i.e. "Identification of areas of aggradations or deposition where mining can be allowed; and identification of areas of erosion and proximity to infrastructural structures and installations where mining should be prohibited and calculation of annual rate of replenishment and allowing time for replenishment after mining in that area".
2020	Enforcement & Monitoring Guidelines for Sand Mining (EMGSM) 2020 has been published modifying Sustainable sand Mining Guidelines, 2016 by MoEF & CC for effective enforcement of regulatory provisions and their monitoring. The EMGSM 2020 directed the states to carry out river audits, put detailed survey reports of all mining areas online and in the public domain, conduct replenishment studies of river beds, constantly monitor mining with drones, aerial surveys, ground surveys and set up dedicated task forces at district levels. The guidelines also push for online sales and purchase of sand and other riverbed materials to make the process transparent. They propose night surveillance of mining activity through night-vision drones.

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.

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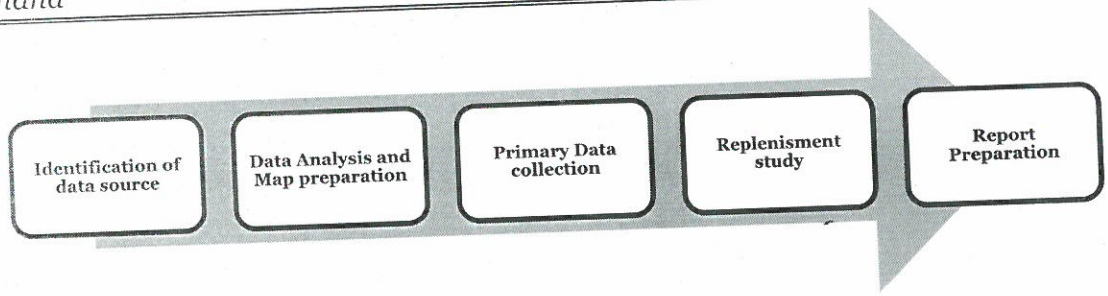

Figure 2-1 Steps followed in preparation of DSR

2.2.1 Data source Identification:

District Survey Report has been prepared based on the Primary data base and secondary data base collated from different sources. This is very critical to identify authentic data sources before collating the data set. The secondary data sources which are used in DSR are mostly Government published data based or the published report in reputed journal. District profile has been prepared based on the District Statistical handbook published by Jharkhand Government as well as District Census 2011. Mining lease details and the revenue generated from minor minerals has been prepared based on available data from DMO, Chatra. 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.

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Here LISS-III satellite Imagery has been taken for Supervised Classification as supervised classification can be much more accurate than unsupervised classification, but depends heavily on the training sites, the skill of the individual processing the image, and the spectral distinctness of the classes in broader scale.

According to the Visual Image Interpretation (Tone, Texture, Colour etc.) training set of the pixel has been taken.

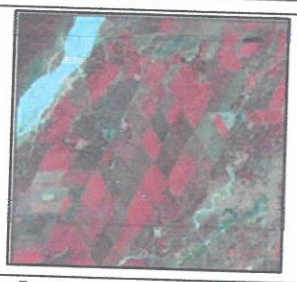
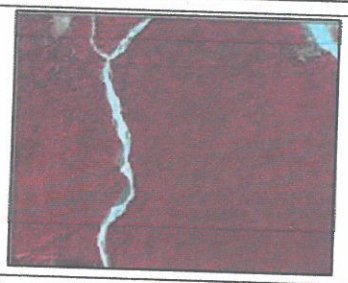
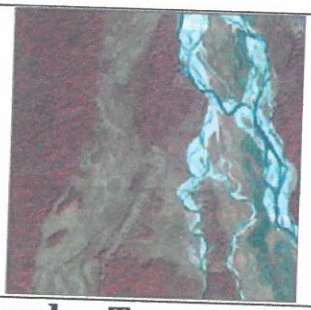
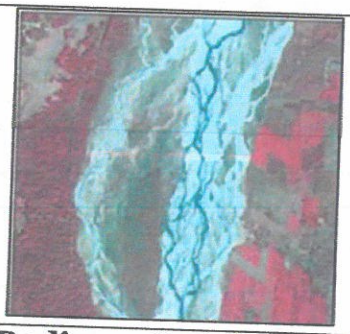
	
Agricultural Land - Based on their Geometrical shape, Red and Pink colour tone, Agricultural Land has been identified.	**Vegetation Covered Area** - Based on their continuous Red colour tone, Vegetation Covered Area has been identified.
	
Agricultural Fallow Land - Based on their Geometrical shape, Light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

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.

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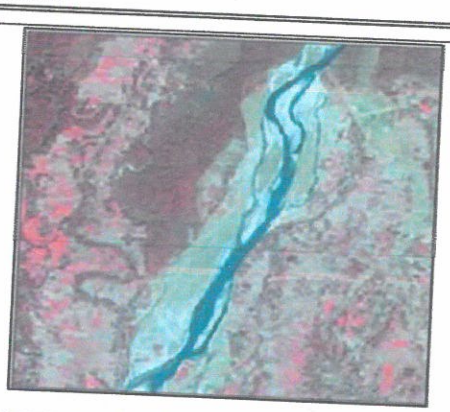	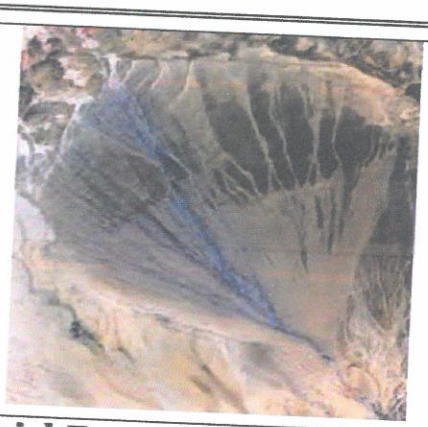
Alluvial Plain- In satellite Imagery the flat land has been identified as Alluvial Plain just below the Alluvial Fan.	**Alluvial Fan** – A fan-based deposition formed by stream where the velocity is abruptly decreased. In satellite Imagery this has been identified just below the hilly region.

Figure 2-3 Pictorial description of Geomorphological Units Classification methods

Physiographical Map:

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

Block Map:

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

Transportation Map:

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

Drainage Map:

- Raw Data collected from **National Informatics Centre (NIC Website).**
- Data has been geo-referenced using GIS software.
- Digitization of block boundary, district boundary, state boundary and district headquarter, sub –district headquarter, places, road, railway, river, nala etc.

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- Road name, River name, Railway name has been filled in attribute table of the Layers
- Final layout has been prepared by giving scale, legend, north arrow, etc.

Seismic Map:

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

Soil Map:

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

Wildlife Sanctuary and National Park Location Map:

- Raw data collected from **ENVIS Centre on Wildlife & Protected Areas.**
- Data has been geo-referenced using GIS software.
- Digitization of Wildlife Sanctuary & National Park and superimposed it over Block Boundary.
- Wildlife Sanctuary & National Park name has been filled in attribute table of the Layers.
- Final layout has been prepared by giving scale, legend, north arrow, etc.

2.2.3 Primary Data Collection:

To prepare DSR, capturing primary data or field data has also been carried out in the district. Field study involves assessment of the mineral resources of the district by means of pitting / trenching in specific interval. This provides clear picture of mineral matters characterization and their distribution over the area. Pre-monsoon data provided by District Mining Officer.

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,

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

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14. Sand is a strong strand which is used for plaster, mortar, concrete, and asphalt.

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

Table 2-2 Details of Dispatch and Royalty

Years	Dispatch in Cubic feet	Royalty Rs.
2018-2019	20080093	1529000
2019-2020	516350	426000
2020-2021	00	6581315
2021-2022	4141300	6188360
Total	**2,47,37,743**	**1,47,24,675**

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

Chatra district spreading over an area of 3706 sq.km lies between North latitudes 23°38′34′′: 24°27′48′′ and East longitudes 84°26′50′′: 85°23′41′′ with its district headquarter at Chatra. The state Jharkhand came into existence on 15th November 2000 as a 28th State of Union of India after being bifurcated from Bihar State, the Chatra district is one of the 24 districts of Jharkhand. The climate is generally dry with average rainfall 1234.5 mm. The temperature varies between 20° to 42.20°. However due to global warming, the temperature goes high up to 44°. The district of Chatra is a part of North Chotanagpur Plateau. This area is full of several plateaus, mountains and valleys, most part of district area full of forest and stones. Chatra district is surrounded by North- Gaya district of Bihar State, South- Ranchi District, East- Chatra district, West- Palamu district.

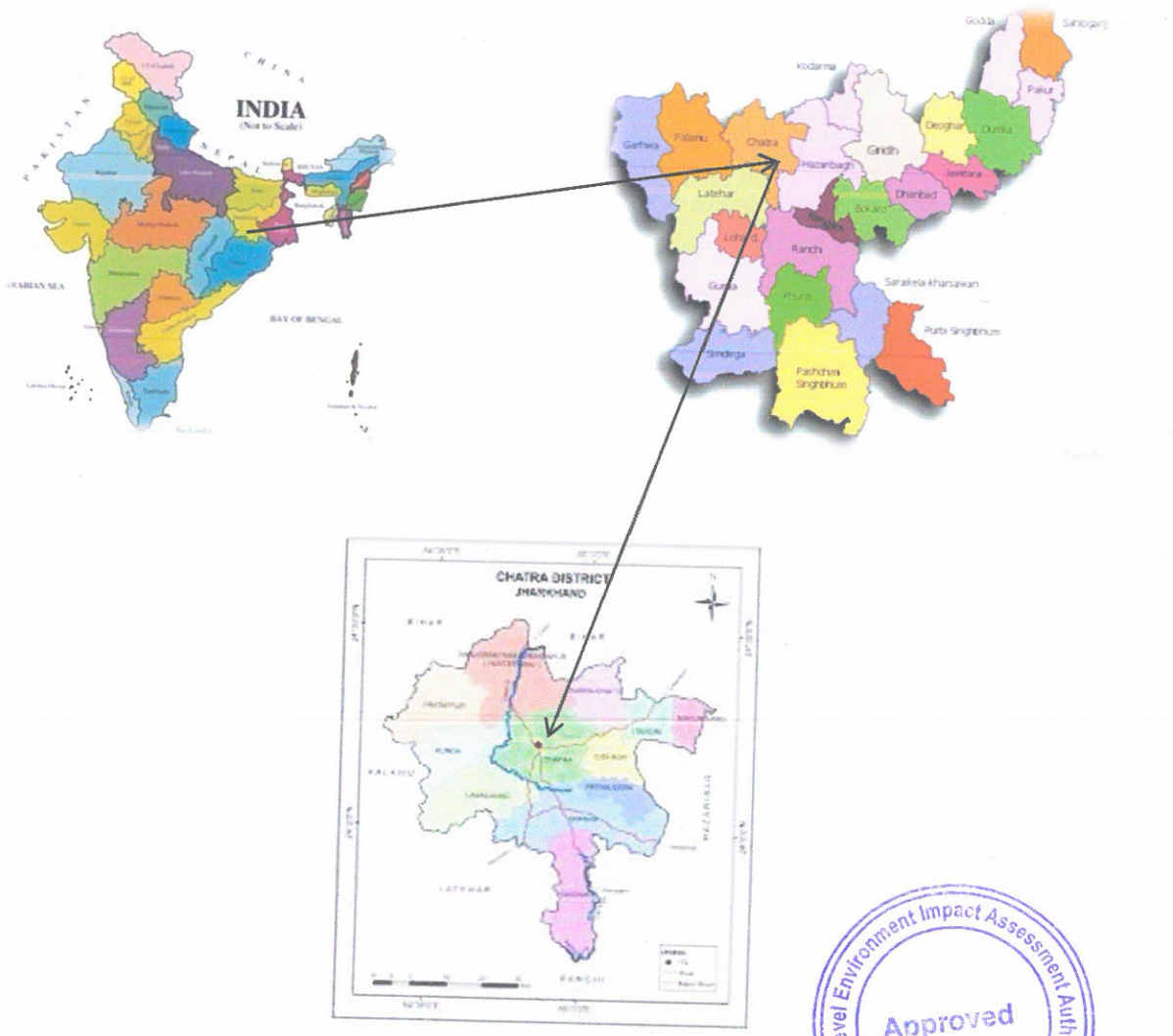

Figure 3-1 Location map of Chatra district, Jharkhand

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3.2 Administrative Setup of District

Chatra is the administrative headquarter of Chatra district. It is located at a distance of 152 km from Ranchi, state capital of Jharkhand. The district is divided into 12 blocks, namely i) Hunterganj ii) Pratappur iii) Kunda iv) Lawalaung v) Chatra vi) Itkhori vii) Gidhaur viii) Pathalgora, ix) Simaria, x) Tandwa xi) Kanhachatti and xii) Mayurhund. The district comprises of 154 numbers of panchayats and 1474 no. of villages. The district is bounded in the north by Gaya district of Bihar State, in the west by Palamu district, in the south by Latehar, Ranchi and Hazaribagh districts, in the east by Koderma and Hazaribagh district. The forest portion comprises of 4 territorial divisions (North, South Chatra, Koderma, Hazaribagh West) one afforestation division and 2 state trading divisions.

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



Figure 3-2 Block map of Chatra District, Jharkhand

(Source: Central Ground Water Board, Chatra)

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

Table 3-1 Details of Block of Chatra District

Sl. No.	Block Name	Area in sq.km.
1	Chatra	456
2	Hunterganj	481
3	Itkhori	172
4	Kanhachatti	197
5	Kunda	321
6	Mayurhand	107
7	Pratappur	344
8	Gidhour	183
9	Lawalong	343
10	Pathalgadda	137
11	Simaria	546
12	Tandwa	430

(Source: https://villageinfo.in/jharkhand/Chatra.html)

3.2.1 Climate Condition

The climate in Chatra is warm and temperate. In winter, there is much less rainfall in Chatra than in summer. The average temperature in Chatra is 24.3 °C /75.8 °F. Precipitation here is about 1150 mm / 45.3 inch per year.

This region, situated near the equator line, is characterized by difficult-to-define summer seasons. The driest month is December, with 8 mm / 0.3 inch of rain. With an average of 318 mm /12.5 inch, the most precipitation falls in July. May is the warmest month of the year. The temperature in May averages 32.0 °C / 89.5 °F. January has the lowest average temperature of the year. It is 15.7 °C / 60.3 °F.

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

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	TOTAL
2017	8.7	0	8.3	0	14.1	71	348.1	209.3	76.9	32	0	0	768.4
2018	0	0	0	9.7	7.3	50.2	189.9	240.7	86.3	19.8	0	10.6	614.5
2019	0.8	32.9	6.4	11.2	0.7	28.9	222.9	187.4	242.8	28.5	0	36.9	799.4
2020	17.1	12.9	112.8	1.7	25.2	184.7	223.5	174.4	69.1	47.7	1.4	0	870.5
2021	0	0	14.5	3.8	154.9	186.6	271.7	124.3	130.4	50.1	1.6	14.6	952.5
Average	5.32	9.16	28.4	5.28	40.44	104.28	251.22	187.22	121.1	35.62	0.6	12.42	801.06

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3.2.2 Demography

Chatra district is one of the twenty-four districts of Jharkhand state, India, and Charta is the administrative headquarters of this district. The district covers an area of 3706 km². It has a population of 791,434 (Census 2001).

According to the 2011 census Chatra district has a population of 1042886 roughly equal to the nation of Cyprus or the US state of Rhode Island. This gives it a ranking of 434rd in India (out of a total of 640). The district has a population density of 275 inhabitants per square kilometre (710 /sq mi). Its population growth rate over the decade 2001-2011 was 28.98 %. Chatra has a sex ratio of 951 females for every 1000 males, and a literacy rate of 60.18 %.

Table 3-3 Demography Block wise

Block Name	Total Population	No. of Gram Panchayats	No. of Revenue Village	Total Literates (%)	Male Literates (%)	Female Literates (%)	SC (%)	ST (%)
Mayurhand	58925	10	116	53.18	58.15	41.85	26.21	0.35
Lawalong	50553	8	103	38.67	61.38	38.62	57.21	5.32
Itkhori	74929	12	161	55.75	58.11	41.89	23.86	0.45
Kanhachatti	63012	10	117	51.72	59.45	40.55	32.22	3.20
Pathalgada	31530	5	30	55.68	58.24	41.76	25.14	10.03
Hunterganj	187590	28	270	44.13	60.24	39.48	37.28	0.33
Pratappur	120221	18	176	42.55	61.29	38.71	36.29	1.12
Simaria	107871	17	100	52.15	58.38	41.62	30.12	8.12
Tandwa	126319	19	96	53.90	59.95	40.05	22.70	15.19
Kunda	30018	5	78	34.62	64.45	35.55	63.56	3.84
Gidhaur	40919	6	38	55.35	58.40	41.60	24.03	1.72
Chatra	101014	16	189	44.43	60.52	39.48	37.97	3.74
Nagar Parsad Chatra	49985	22 Ward	-	67.51	57.10	42.90	13.20	0.88
Total	**1042886**	**154**	**1474**	**60.18**	**69.92**	**49.92**	**32.65**	**4.37**



Cropping pattern

The cropping pattern is generally influenced by varied soil type and different climatic conditions. The principal crop of the area is Paddy, maize, Pulses and Oilseeds. The horticulture crops are Cauliflower, cabbage, tomato, Brinjal, L. finger, cucumber etc.

3.2.3 Topography & Terrain

Chatra has a rolling topography marked by isolated hills and valleys. The general slope of thedistrict is from North to South with an average elevation of 450 m. Since the district consists of part of Upper & Lower Hazaribag plateau and northern scarp, it presents diverse physiographic features. The northern most part of the district bordering Bihar is a low-lying area and most suitable for agriculture. Just to the south of this plain region is Kalua and Lahabar hills that forms the higher elevations of the district. These hills fall in northern blocks namely Hunterganj, Pratappur, Kunda and Lawalong. They are covered by dense forests and are hot-bed for Left wingExtremist activities. The middle and southern regions of the district are a part of Chotanagpur plateau. These regions have an undulating terrain with a mix of up, medium and lowlands. The scarp landforms of the district gave rise to scenic waterfalls. Tamasin Waterfalls in Kanhachatti block is a famous tourist spot that has been formed due to scarp landform.

3.2.4 Hydrogeology

The southern part of the district is underlain by Granite-gneiss of Achaean age forming the basement. These occur as large batholiths and are intruded by basic rocks. In the central and northern part of the district the rocks of Barakar formation consisting of feldspathic sandstones, shales and coal seams overlying the metamorphics are exposed. In the western and northern part of the district alluvial cover of moderate thickness, caps the Archaean crystallines and the Gondwana sedimentaries. The district is underlain by diverse geological formations with complex tectonic framework. The geological formations have been grouped under three main categories

a) The gneissic complex in the southern and the central part
b) The Rajmahal traps in the eastern and southeastern part
c) Gondwanas overlain by thin mantle of alluvial cover in the northern and central part.

Ground water occurs mostly under phreatic condition in all the lithological units within the shallow aquifers and locally under semiconfined and confined condition in deeper aquifers. Hydrogeolocical map is shown in Fig 3.3.

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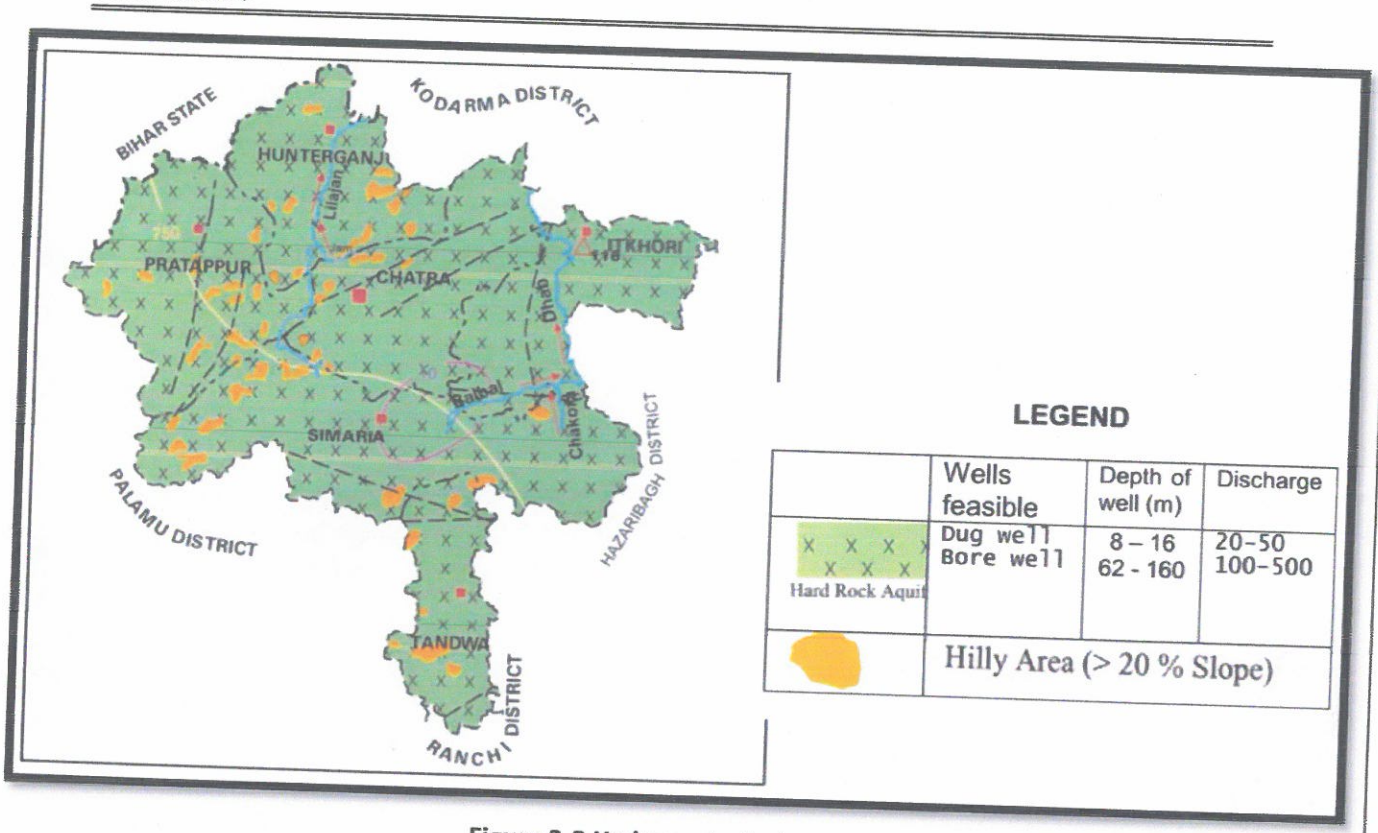

Figure 3-3 Hydrogeological map
(Source: Central Ground Water Board, Chatra)

Depth to water level:

During May 2012, the depth to water levels in HNS wells tapping shallow aquifer ranged from 7.30 to 11.05 m bgl. Fig No. 3-4

Categorization of depth to water level of pre-monsoon period (May 2012) for HNS in Chatra district is presented below in table-3.4

Table 3-4 Categorization of depth to water level of pre-monsoon period (May 2012)

No. of wells measured	Depth to water level (m bgl)		0-2 (m)		2-5 (m)		5-10 (m)		10-20(m)	
	Min	Max	No.	%	No.	%	No.	%	No.	%
3	7.30	11.05	0	0	0	0	2	66.7	1	33.3

Depth to ground water levels during the post monsoon period (November 2012) varied between 4.92 and 9.67 m bgl. Fig: 3-5

Categorization of depth to water level of post-monsoon period (November 2012) for HNS in Chatra district is presented below in table-3.5

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Table 3-5 Categorization of depth to water level of post-monsoon period (Nov-2012)

No. of wells measured	Depth to water level (m bgl)		0-2 (m)		2-5 (m)		5-10 (m)		10-20(m)	
	Min	Max	No.	%	No.	%	No.	%	No.	%
6	4.92	9.67	0	0	1	16.7	5	83.3	0	0

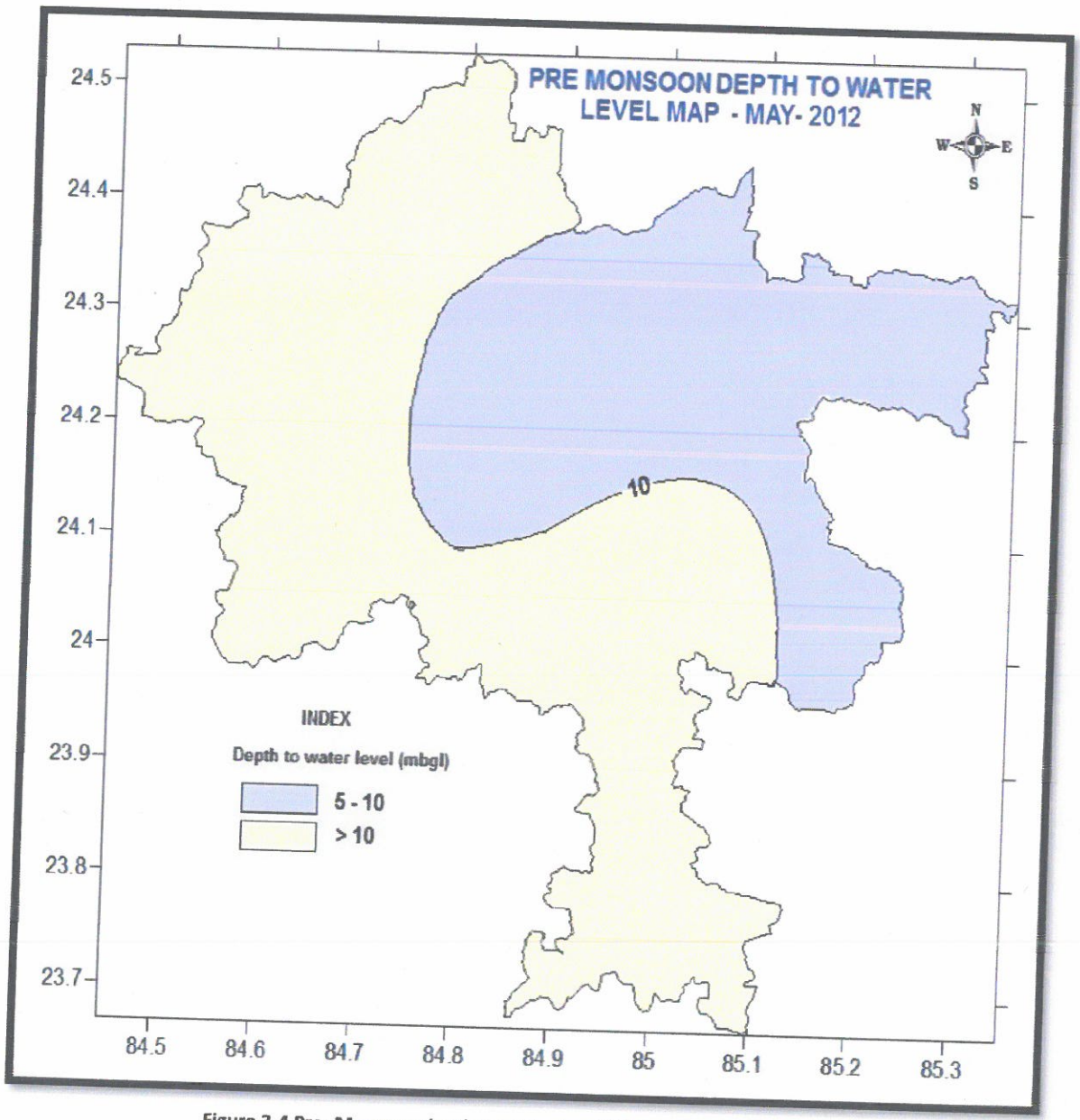

Figure 3-4 Pre- Monsoon depth to water level (2012) map of Chatra district

(Source: Central Ground Water Board, Chatra)

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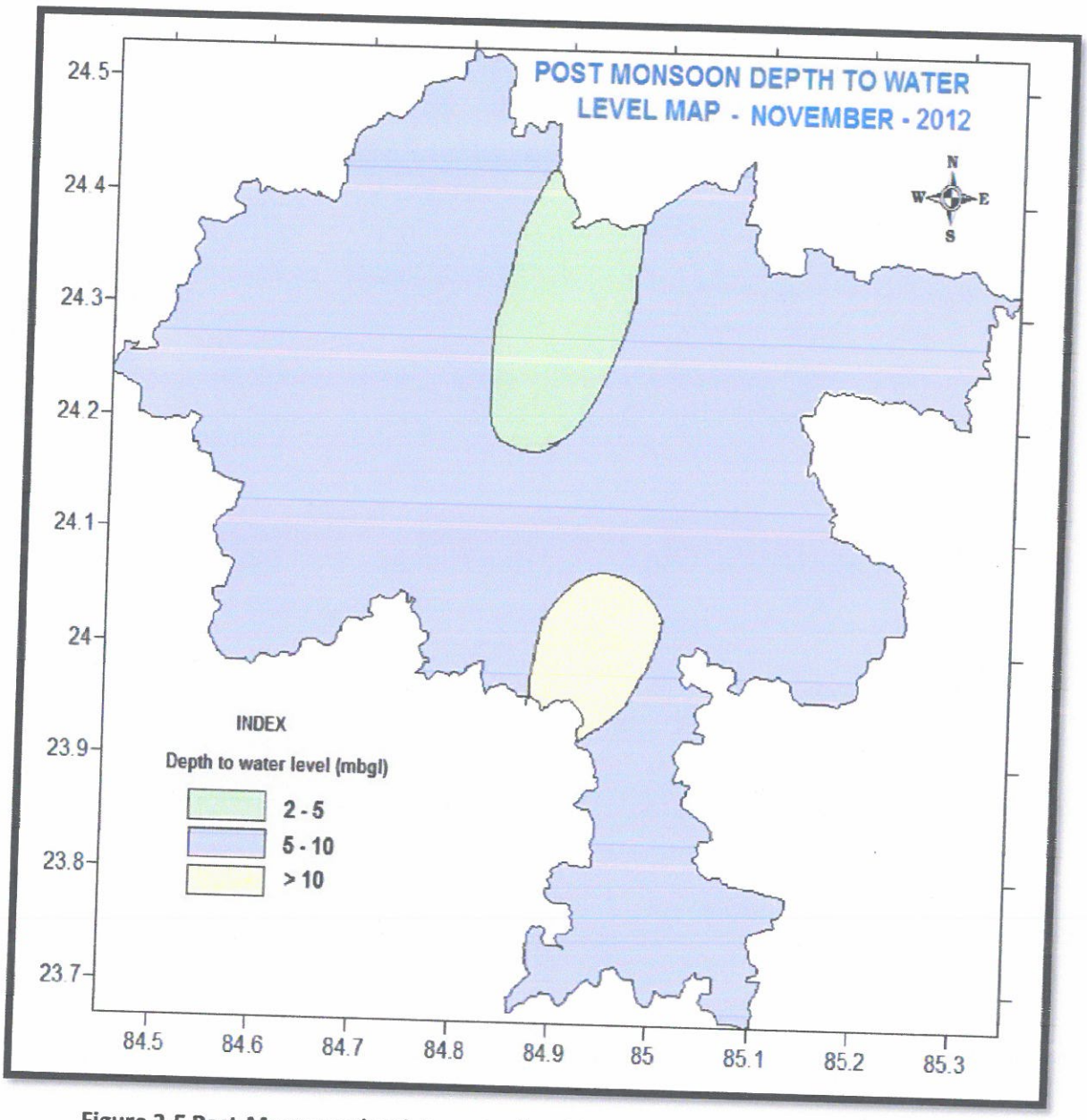

Figure 3-5 Post-Monsoon depth to water level (2012) map of Chatra district

(Source: Central Ground Water Board, Chatra)

3.2.5 Ground Water Development:

In the rural areas the entire water supply is dependent on ground water. Ground water development is mainly carried out in the district through dug wells and Hand pumps. In general, dug wells are of 2 m diameter and the depth ranges between 8 to 15 m depending on the thickness of the weathered zone, tapping the shallow aquifer in the weathered zone and uppermost slice of the basement. Large number of dug wells used for drinking water is under private ownership for

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which there is no reliable data. Over the years Mark II/ Mark III hand pumps are being drilled in large numbers for ground water development. These hand pumps have the following two major advantages i) less susceptible to contamination from surface sources and ii) tap fractures between 20-60m depth which have been found to be less affected by seasonal water level fluctuation and thus have lesser chances of failure even during extreme summer. In rural areas of Chatra district the number of hand pumps drilled by PHED is 12311 of which 9342 are under working condition. There are 574 dug wells constructed by government departments that are under regular use.

In the urban areas ground water plays a supplementary role in water supply, the major supply being made through dams, reservoirs or weirs across rivers or streams. No authentic data is available on the number of ground water structures catering the urban water supply.

As per the latest ground water resource estimation carried out adopting GEC 97 methodology, the overall stage of ground water development in Chatra district has been found to be 41 % indicating enough scope for future development. (Fig.7& 8). The ground water resources of Chatra district is given in the table-3-6.

Table 3-6 Stage of ground water development of Chatra District as on 2009

Sl. No	Assessment Unit/ District	Net Annual Ground Water Availability	Existing Gross Ground Water Draft for Irrigation	Existing Gross Ground Water Draft for Domestic and Industrial Water Supply	Existing Gross Ground Water Draft for All Uses	Allocation for Domestican d Industrial Requiremen t supply (ha-m)	Net Ground Water Availability for future irrigation developmen t	Stage of Ground Water Developmen t (%)	Categoriz ation on of blocks
1	Chatra	3711	1611.9	251.2	1863.1	419.68	1679.4	50.21	SAFE
2	Gidhau r	1102.7	356.35	52.04	408.39	88.27	658.09	37.04	SAFE
3	Hunter ganj	3453.8	1300	241.79	1541.8	410.11	1743.7	44.64	SAFE
4	Itkhori	2157.6	1126.1	177.82	1304	301.61	729.85	60.44	SAFE
5	Kunda	1592.8	104.4	38.05	142.45	64.54	1423.8	8.94	SAFE
6	Lawala ung	2463.3	343.82	65.44	409.26	110.99	2008.5	16.61	SAFE
7	Pathalg ora	913.17	169.82	43.31	213.13	73.45	669.89	23.34	SAFE
8	Pratap pur	2373	798.94	149.66	948.6	253.85	1320.2	39.98	SAFE
9	Simair a	3839.7	860.56	143.13	1003.7	242.77	2736.4	26.14	SAFE
10	Tandw a	3155.6	690.9	136.9	827.81	232.23	2232.5	26.23	SAFE
	Total	**24763**	**7363**	**1299**	**8662**	**2197**	**15202**	**34.98**	SAFE

Ground Water Related Issues & Problems

Some of key ground water related issues are

a) Locating suitable sites for bore wells

b) Suitable design of dug wells and hand pumps

c) Taking up artificial recharge projects to augment the resource availability in Chatra district

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d) Optimal development of irrigation potential by developing ground water available for future uses:
e) Creating public awareness for conserving ground water through awareness camps, NGO's and mass media.



Figure 3-6 Categorisation of blocks of Chatra district



Figure 3-7 Ground water development potential of Chatra district

(Source: Central Ground Water Board, Chatra)

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Table 3-7 Replenishable Ground Water Resource

Block	Annual Replenishable Ground Water Resource					Natural Discharge during non-monsoon season	Net Annual Ground Water Availability	Annual Ground Water Draft			Projected Demand for Domestic and Industrial uses up to 2025	Ground Water Availability for future irrigation	Stage of Ground Water Development (%)
	Monsoon Season		Non-monsoon		Total			Irrigation	Domestic and Industrial uses	Total			
	Recharge from rainfall	Recharge from other sources	Recharge from rainfall	Recharge from other sources									
Chatra	3122.90	50.15	533.33	416.97	4123.36	412.34	3711.03	1611.936	251.20	1863.13	419.68	1679.41	50.21
Gidhaur	965.53	1.91	164.89	92.90	1225.24	122.52	1102.71	356.35	52.04	408.39	88.27	658.09	37.04
Hunterganj	2929.53	71.47	500.31	336.25	3837.56	383.76	3453.80	1300.02	241.79	1541.81	410.11	1743.67	44.64
Itkhori	1741.89	69.97	297.48	287.97	2397.31	239.73	2157.58	1126.13	177.82	1303.95	301.61	729.85	60.44
Kunda	1481.27	3.13	252.97	32.34	1769.72	176.97	1592.75	104.40	38.05	142.45	64.54	1423.81	8.94
Lawalaung	2253.28	4.33	384.82	94.58	2737.01	273.70	2463.31	343.82	65.44	409.26	110.99	2008.50	16.61
Pathalgora	826.63	1.46	141.17	45.37	1014.63	101.46	913.17	169.82	43.31	213.13	73.45	669.89	23.34
Pratappur	2070.57	4.24	353.61	208.18	2636.61	263.66	2372.95	798.94	149.66	948.60	253.85	1320.16	39.98
Simairaa	3274.53	5.63	535.29	226.36	4041.82	202.09	3839.73	860.56	143.13	1003.69	242.77	2736.41	26.14
Tandwa	2997.56	4.13	323.62	180.95	3506.26	350.63	3155.63	690.90	136.92	827.81	232.23	2232.50	26.23
Total	**21663.69**	**216.44**	**3487.51**	**1921.88**	**272789.52**	**2526.86**	**24762.66**	**7362.88**	**1299.35**	**8662.23**	**2197.49**	**15202.29**	**34.98**

Ground Water Quality: Ground water in the phreatic aquifers in Chatra district slightly alkaline in nature, which is also colourless, odorless. The specific electrical conductance of ground water in phreatic zone during May 2011 was in the range of 655 -2408 µS/cm at 25°C. The suitability of ground water for drinking purpose has been evaluated on the basis of pH, Total hardness (T.H), Ca, Cl, F and NO_3. The chemical concentration of these constituents is presented below in table-3-8.

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Isoconductance Map is produces in figure -3-8

Table 3-8 The chemical concentration of samples (May 2011) of Chatra district.

Block	**Location**	**E.C. micro**	**pH**	**CO3**	**HCO3**	**Cl**	**Ca**	**Mg**	**TH as**	Na	K
		Siemens/ cm							**CaCO3**		
		at 250 C		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SIMARIA	Tutilawa	690	7.57	ND	110.7	70.9	48	30.37	245	32.48	4.88
CHATRA	Chatra	1440	7.41	ND	446	147	62	49	355	127	30
ITKHORI	Itkhori	657	7.56	ND	344.4	17.72	38	27.94	210	38.9	5.07
SIMARIA	Simaria	249	7.4	ND	110.7	17.72	26	7.29	95	14.59	1.86
SIMARIA	Bagra	1399	7.41	ND	110.7	215.52	76	57.1	425	81.94	17.02



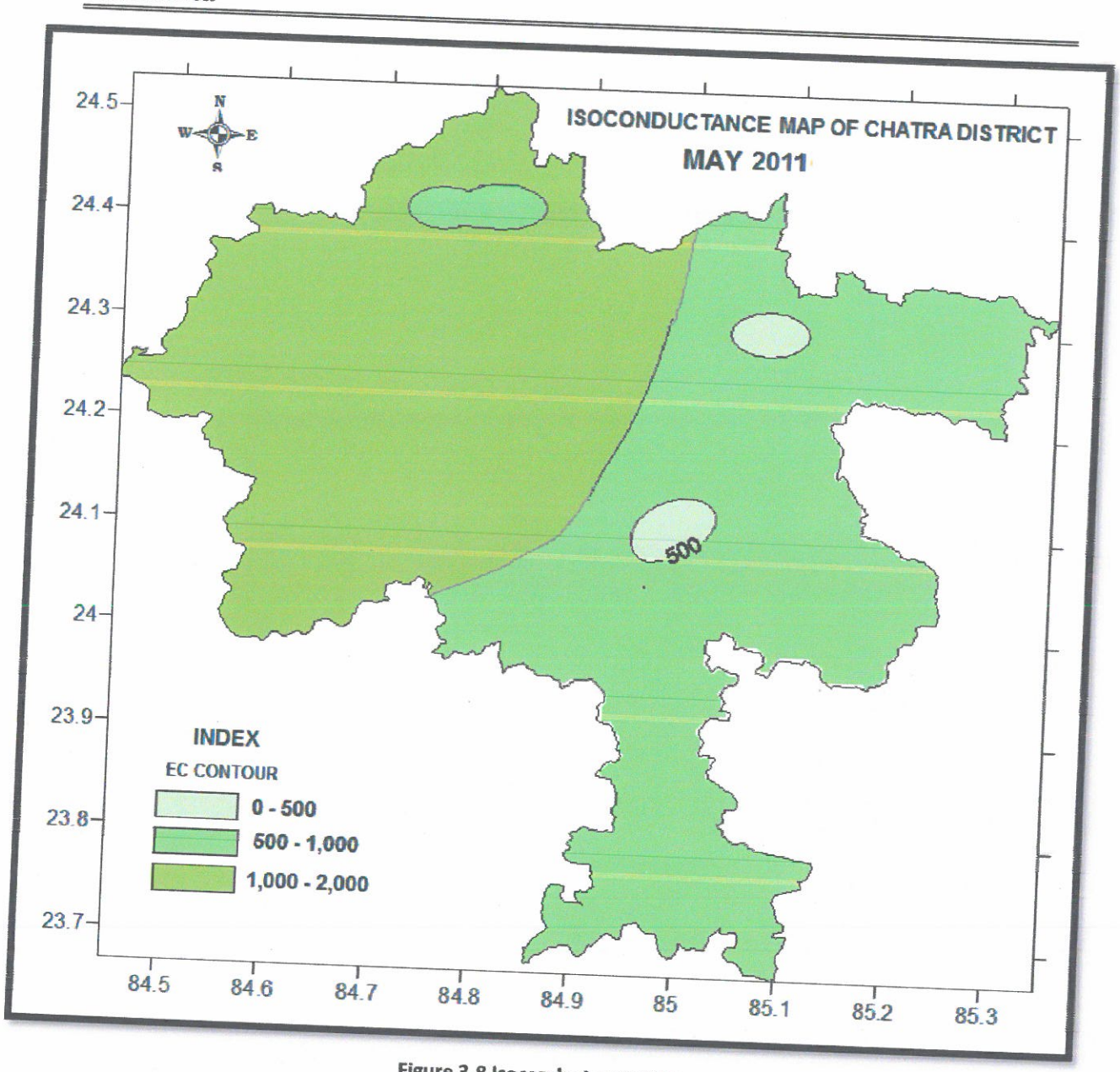

Figure 3-8 Isoconductance Map

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a) Drainage System

The principal rivers of the district are Mohana Barki, Chako, Damodar and Garhi Lilanjan Falgu. The general slope of the district is North to South. The general trend of the drainage is from SE-NW. The structural features particularly the foliation and joints exert profound impact upon the drainage and control the drainage pattern of the district. A Drainage map of Chatra District is furnished as Figure No.3.9.

A Drainage map of Chatra District is furnished as Figure No.3.9.

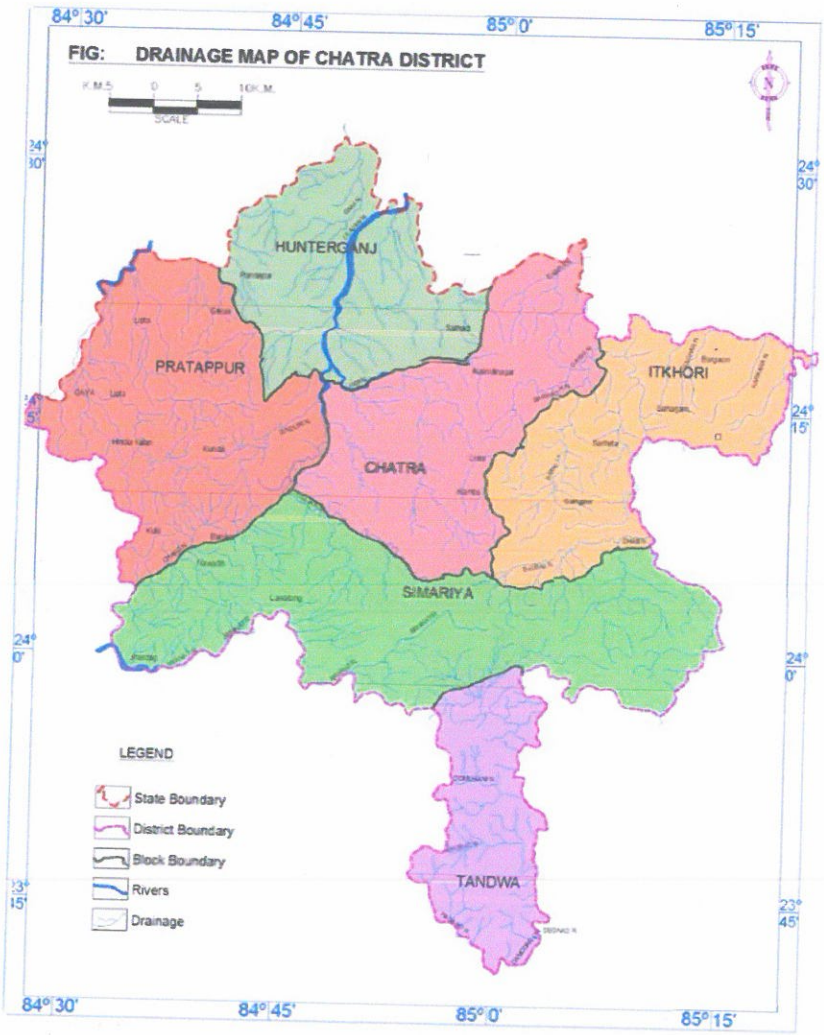

Figure 3-9 Drainage map of Chatra district

(Source: Central Ground Water Board, Chatra)

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- **Floods in district Chatra:**

The state of Jharkhand is predominantly a hilly state where the problem of flooding was rare till sometime back. However, the erosion of embankments spread of population and general disturbance in ecology and inability of identifying the catchment areas, the incidence of Flash floods has become frequent. The floods have occurred in the following 11 districts of the state, Dumka, Godda, Deogarh, Sahebganj, Pakur, Dhanbad, East and West Singhbhum, Saraikela-Karsawan, Gumla and Hazaribagh during the years 2000-2004.

Distribution of the vulnerable and less vulnerable flood prone districts are shown in the below figure no. 3.10.

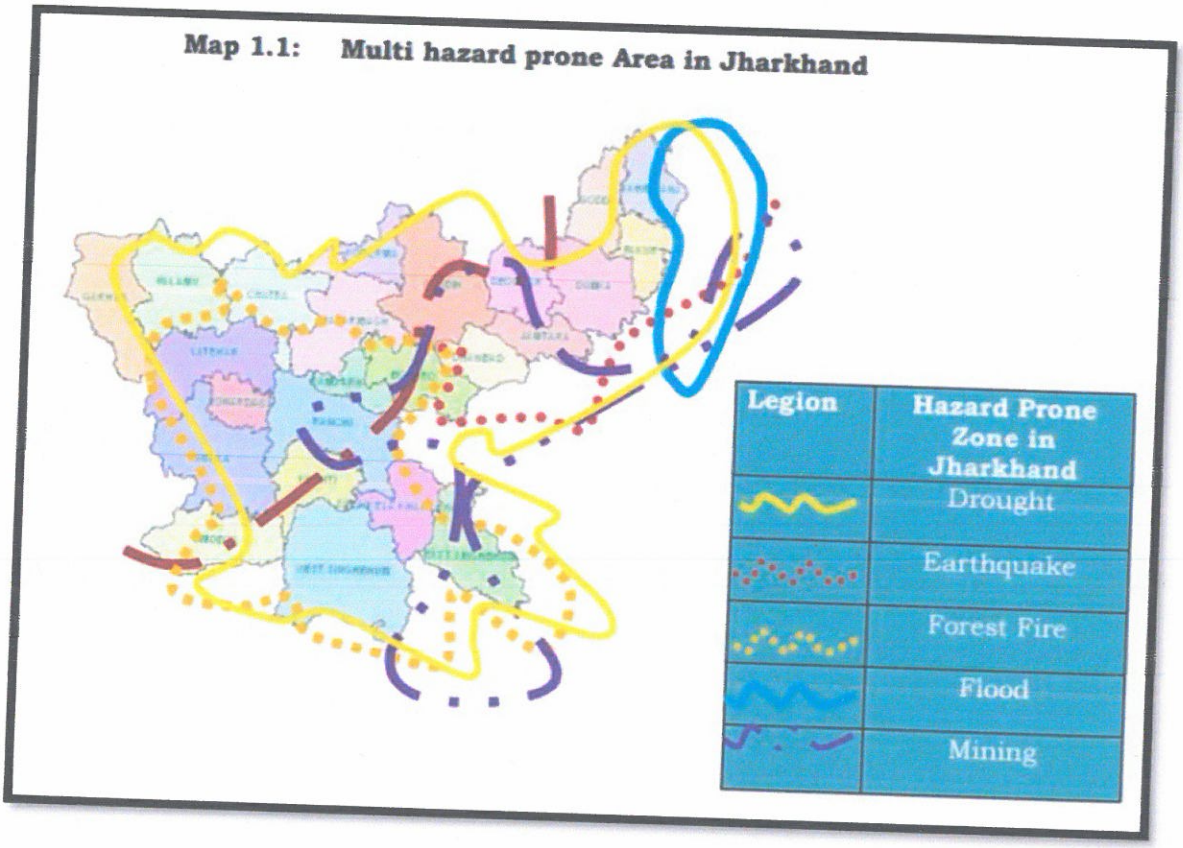

Figure 3-10 Multi hazard prone area in Jharkhand

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

b) Seismicity

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

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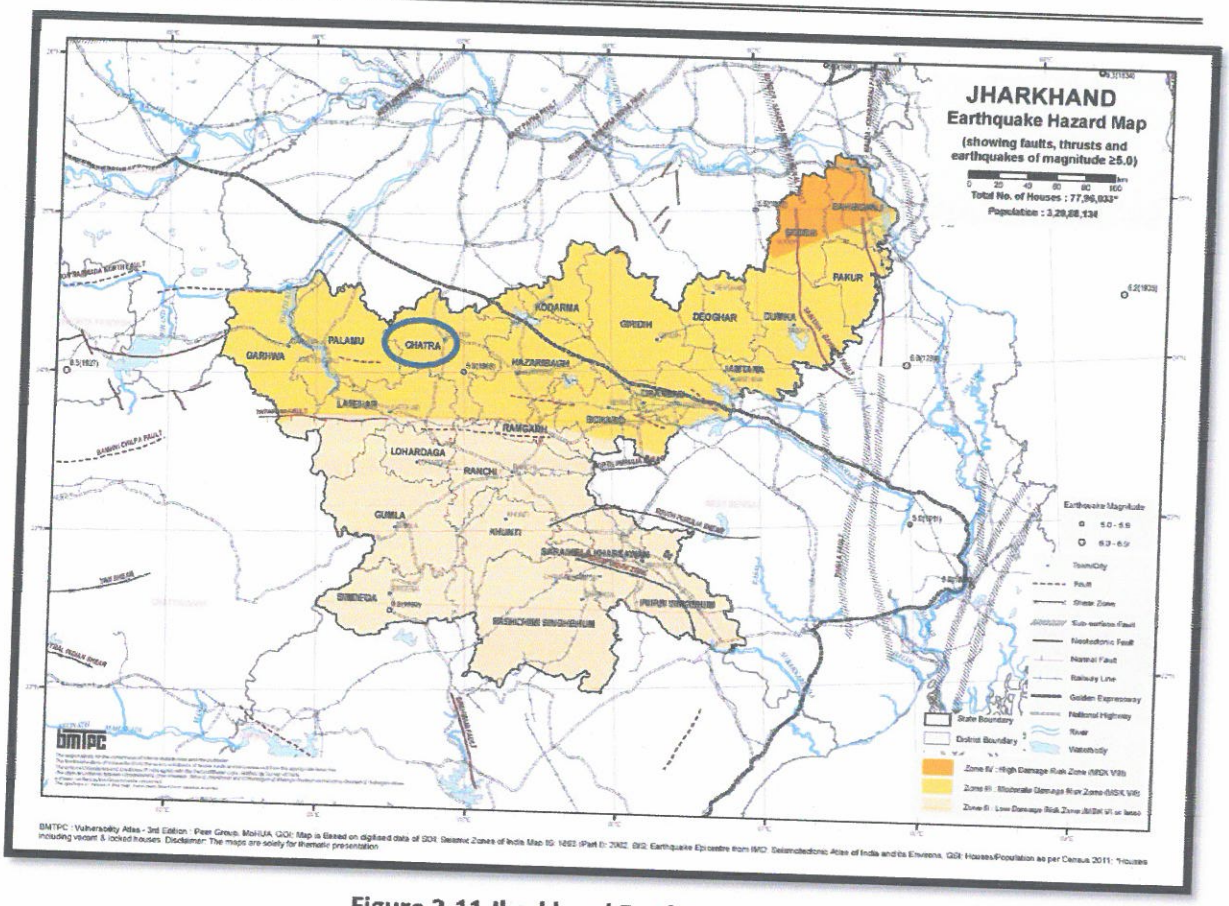

Figure 3-11 Jharkhand Earthquake Map

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

c) Flora & Fauna

The forest of Chatra is full of variety of medicinal plants, Kendu leaves, Bamboo, Sal, Teak, other timber species and a wide range of carnivorous & herbivorous wild animals. The district has one wild life sanctuary also known as the Lawalong Wildlife Sanctuary, which hosts even tigers. The sanctuary was established vide Bihar Govt notification no. 49/ 48/333 – F, dated 15/07/1978. 82 villages are located within the sanctuary area of which 21 villages are in the core area and 61 villages are situated in the buffer zone. The area of the sanctuary is 26, 886.23 hectares. In the sanctuary the principal animals that are found are Tigers, Leopards, Bear, Nilgai, Sambhar, Peacock, Wild Boar and Deer, together with variety of snakes and birds.

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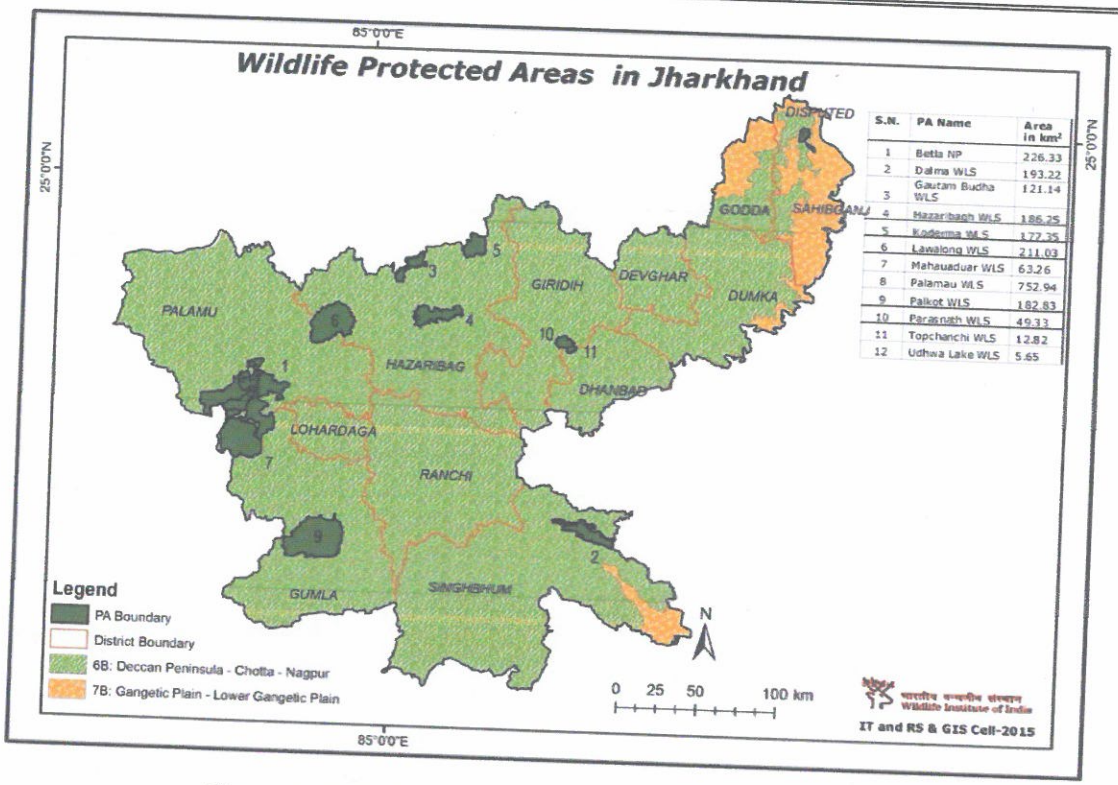

Figure 3-12 Wildlife Protected area in Jharkhand District
(Source: http://wiienvis.nic.in/Database/Maps_PAs_1267.aspx)

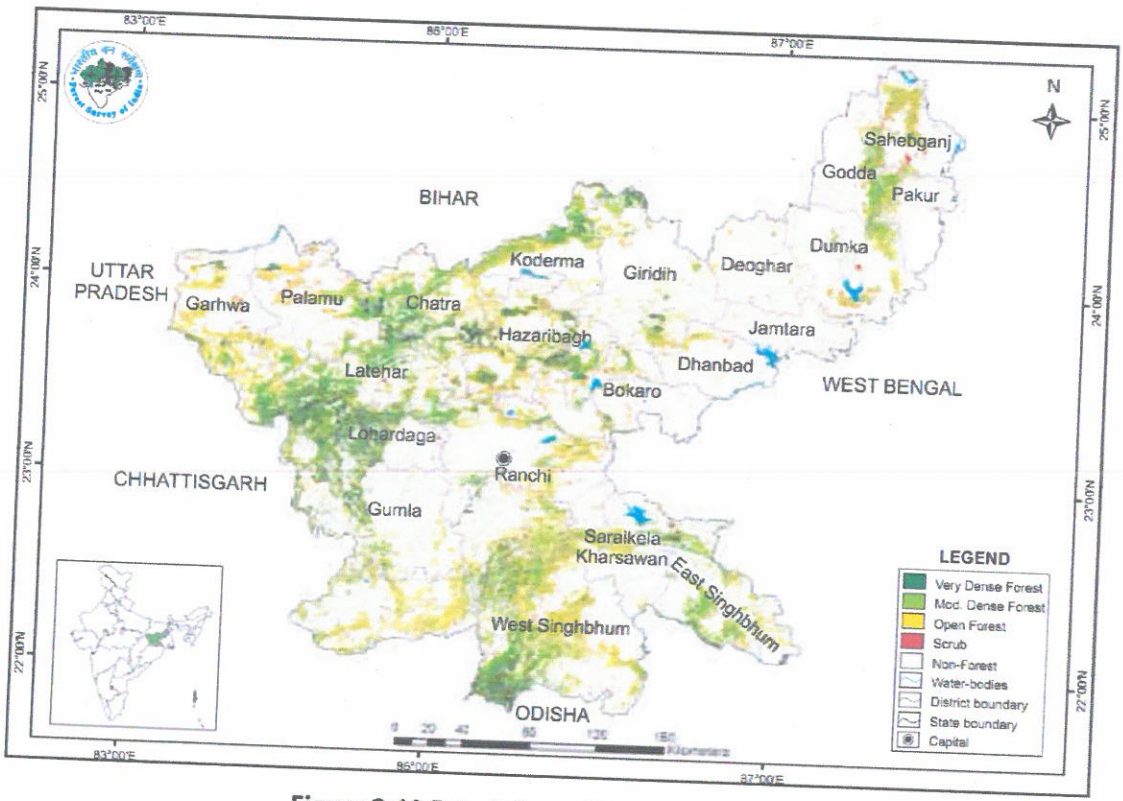

Figure 3-13 Forest Cover Map of Jharkhand
(Source: https://forest.jharkhand.gov.in/Reports_Roiz/forestcovermap.aspx

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4 Physiography of the district

4.1.1 General Landforms

The district consists of part of Upper Hazaribag plateau and Lower Hazaribag plateau and northern scarp, it presents diverse physiographic features. It has an elevation of about 450 m. Kalua hill and Lahabar hill forms the higher elevations of the district. Due to scarp landforms some waterfalls are observed in the district. The general slope of the district is from north to south. Geologically the area is comprised with Archean granites and gneisses.

4.1.2 Soil and rock pattern

The predominant physical feature over major part of the district is the rolling topography dotted with isolated inselbergs except in the Borijore and Sundarpahari blocks. A substantial part of Borijore and Sundarpahari block is under forest cover. The altitude of the land surface increases from west to the east. The major hills are confined to the eastern part of the district comprising the Gandeshwari Pahar (238.41m) and Kesgari Pahar (268.29m) while in the western part of the district isolated hills are in the form of the inselbergs and other small hillocks. The soil is mostly acidic, reddish yellow, light textured and highly permeable with poor water holding capacity.

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5 Land use pattern of the district:

The major portion of the district is covered by forest (60.4 % of TGA) and has scattered settlement pattern. The forest is full of variety of medicinal plants, kendu leaves, bamboo, sal, teak and other timber species. The district has considerable flat land, which provide suitable site for agricultural use. The hilly areas are mostly under forest with patches of cultivation on scarp areas. Major crops grown in the district are rice, wheat and pulses. Only 12.21 percent area of agricultural use are net irrigated and major source of irrigations are well and tubewells. The Land Use in Chatra District are given below.

Table 5-1 Land Use details of Chatra Districts

Sl. No.	Land Use	Area (%)
1	Forest	60.40
2	Net sown area	12.54
3	Barren and uncultivable waste	5.29
4	Non-Agriculture use	3.28
5	n-Agriculture use Orchards	1.25
6	Pasture	0.43
7	Culturable wasteland	1.24
8	Current and other fallow	15.57

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

5.1.1 Forest detail of the area

The forest of Chatra is full of variety of medicinal plants, Kendu leaves, Bamboo, Sal, Teak, other timber species and a wide range of carnivorous & herbivorous wild animals. The district has one wild life sanctuary also known as the Lawalong Wildlife Sanctuary, which hosts even tigers. The area of the sanctuary is 26, 886.23 hectares. In the sanctuary the principal animals that arefound are Tigers, Leopards, Bear, Nilgai, Sambhar, Peacock, Wild Boar and Deer, together with variety of snakes and birds.

5.1.2 Agriculture & Irrigation

The district has considerable flat land, which provide suitable site for agricultural use. The hilly areas are mostly under forest with patches of cultivation on scarp areas. Major crops grown in the district are rice, wheat and pulses. Only 12.21 percent area of

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agricultural use are net irrigated and major source of irrigations are well and tubewells.

The Landuse map of the chatra is given below:

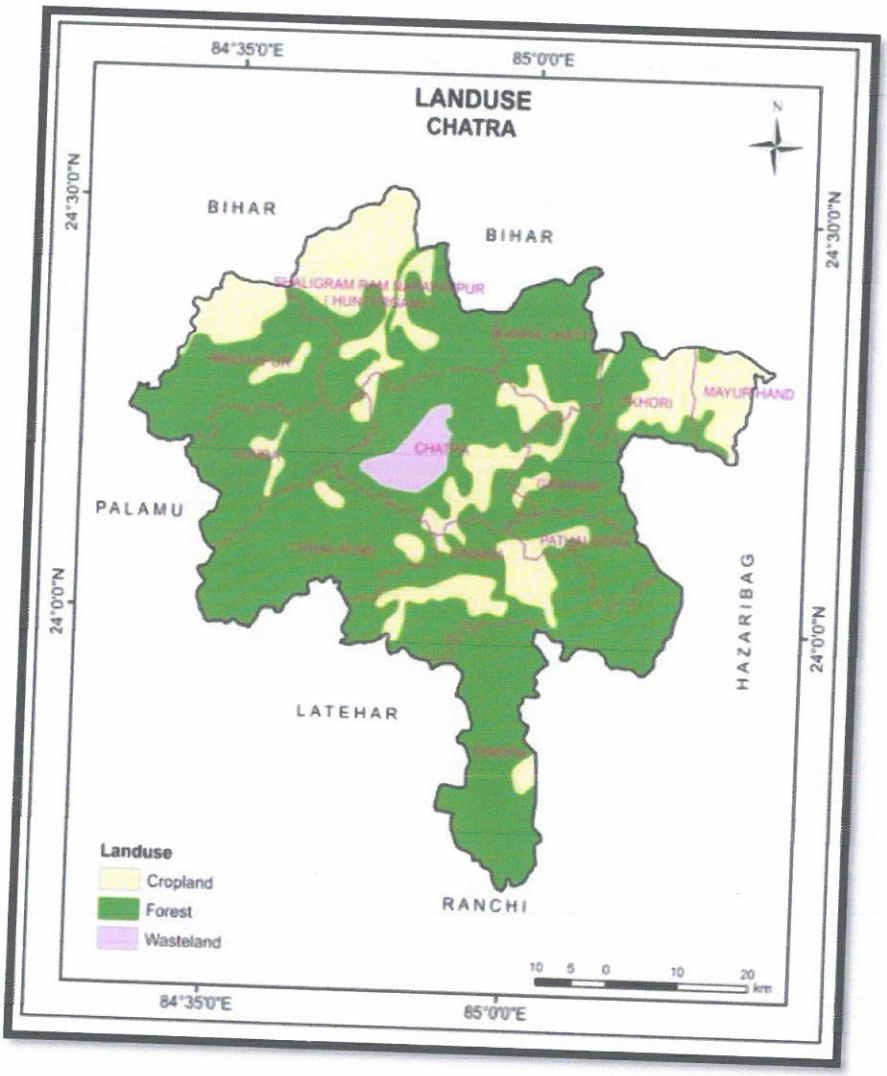

Figure 5-1 Landuse Map Chatra
(Source: Geological Survey of India)

5.1.3 Mining

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

- Sand
- Stone
- Coal

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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 Mohana, Barki, Morhar, Damodar and Garhi, Lilanjan (Falgu) etc.

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6 Geology:

Geologically, the area is comprised with Archean granites and gneisses. In southern part of the district, Gondwana rock formations occur in patches. Overall, the geological formations of Chatra can be had been grouped under three main categories:

1. The gneissic complex in the southern and the central part
2. The Rajmahal traps in the eastern and south-eastern part
3. Gondwanas overlain by thin mantle of alluvial cover in the northern.

The generalised stratigraphic succession of the area, established by GSI is as follows

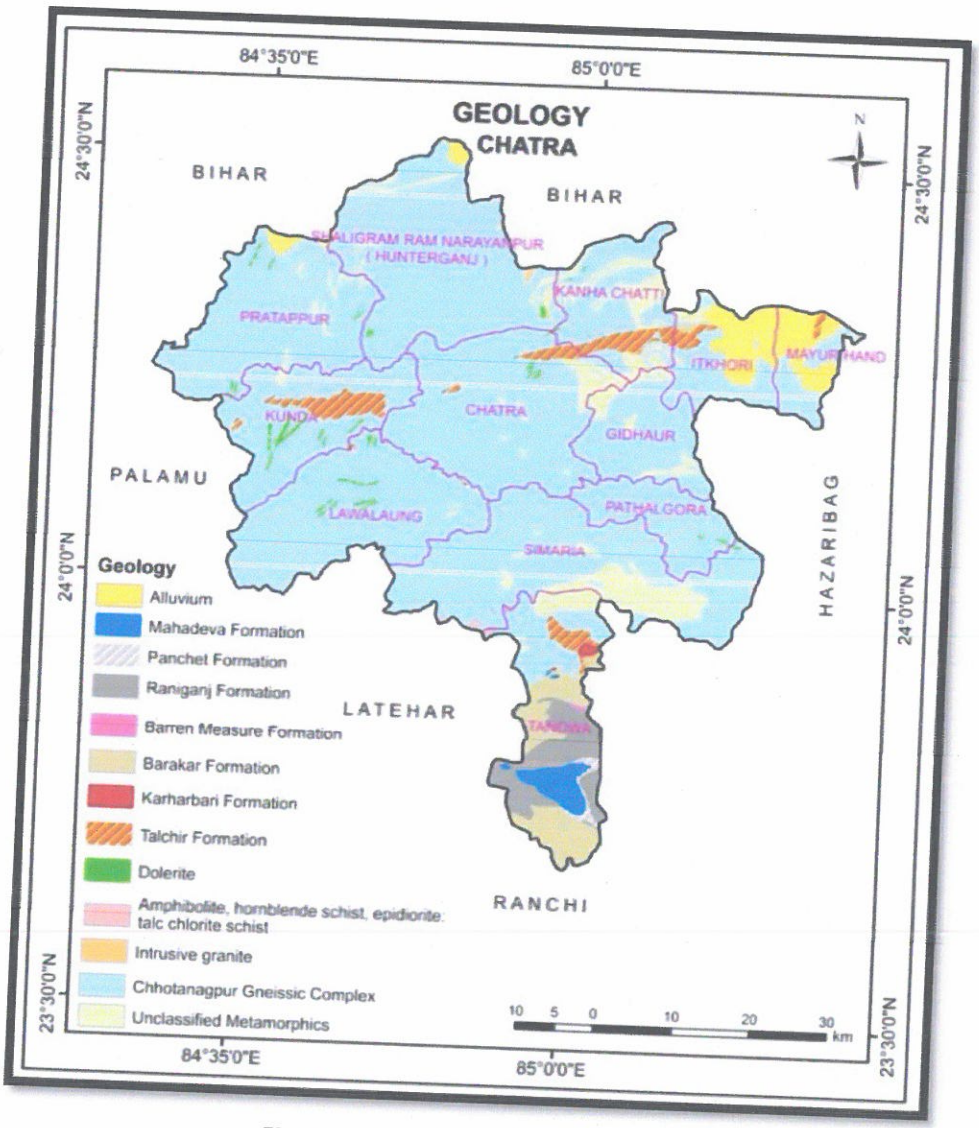

Figure 6-1 Geological Map of Chatra
(Source: https://geology.jharkhand.gov.in/documents/geological_map/Chatra.pdf)

7 Mineral wealth

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Mineral wealth

The mineral resources of Chatra district playing massive role in industrial, social and economic development of the district. Coal is the important mineral of this district. It is mined at Piparwar under Tandwa Block. From Utamore (Chatra Block) precious stones of astrological importance are also extracted.

Available minor mineral resources in the district are:

- Sand
- Stone
- Coal

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 Damodar, Morhar, Baki, Garhi, Lilajan and Mohana 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 principal rivers of the district are Marhar, Mohana, Barki, Damodar and Garhi and Lilajan (tributary of Falgu). The district is drained by these rivers with a few minor tributaries. The Damodar has I, II, III and IV order tributaries whereas the river Falgu has only II and III order tributaries.

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 criss-cross fashion. The general slope of the district is North to South. The general trend of the drainage is from SE-NW.

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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	Damodor River	19.47	1.441
2	Garhi Nadi	3.65	0.231
3	Lilajan (Falgu) River	9.40	1.143
4	Mohana River	4.32	0.343

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	Damodor River	14.96	Palamau hills in Jharkhand	610
2	Garhi Nadi	24.77	Tilra	629
3	Lilajan (Falgu) River	75.18	Simarya	545
4	Mohana River	26.05	Piri	640

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 Chatra District are furnished below.

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

Name of the River or Stream	Place of origin
Damodor River	Palamau hills in Jharkhand
Garhi Nadi	Tilra
Lilajan (Falgu) River	Simarya
Mohana River	Piri

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ii) Catchment Area

The Chatra district is mainly drained by Marhar, Falgu, Mohana, Barki, Damodar and Garhi and Lilajan 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 Chatra district along with the distribution of the section lines are shown in figure 7.1.

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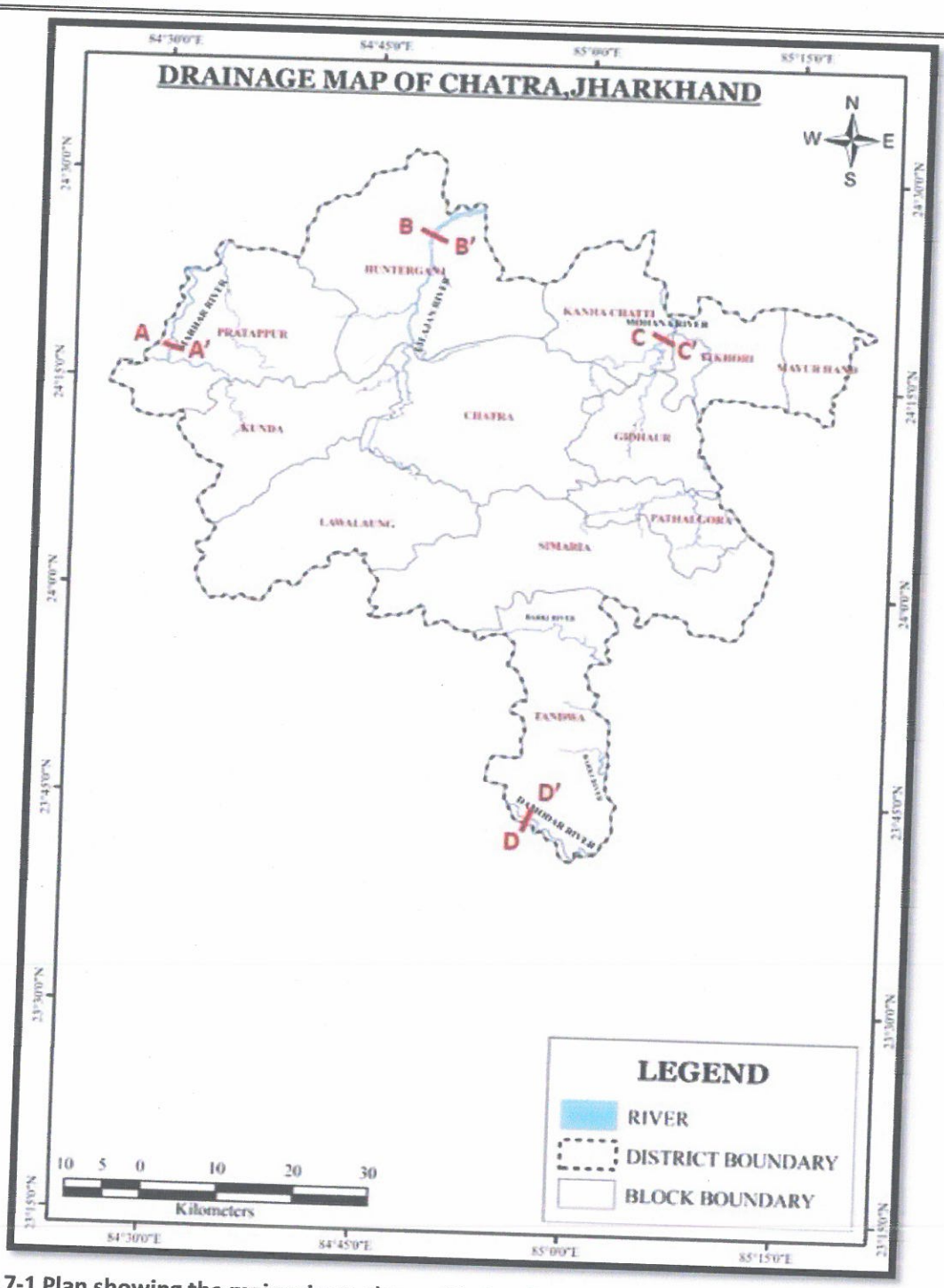

Figure 7-1 Plan showing the major rivers along with the distribution of Section Lines, Chatra District, Jharkhand

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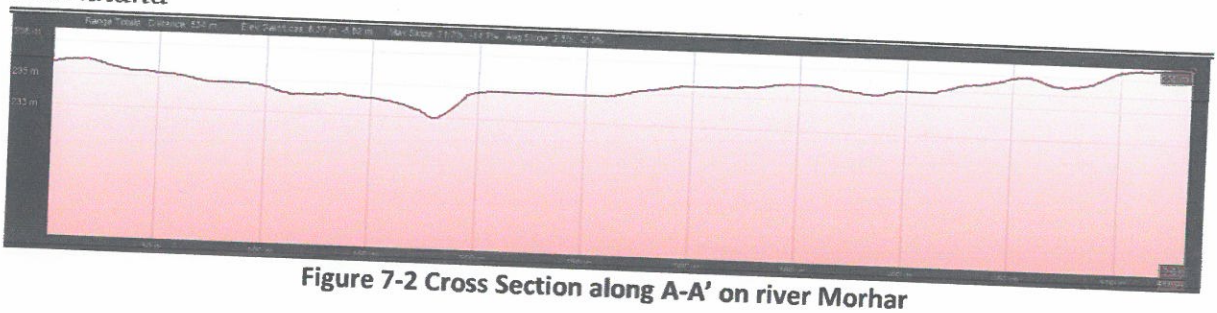

Figure 7-2 Cross Section along A-A' on river Morhar

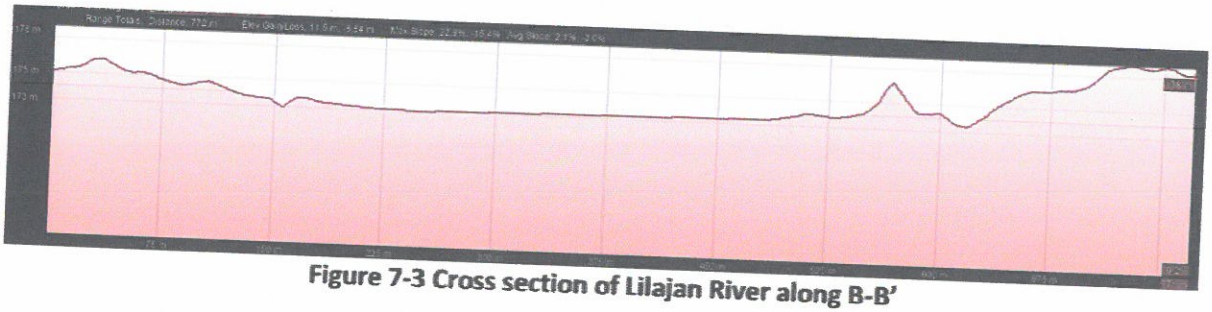

Figure 7-3 Cross section of Lilajan River along B-B'

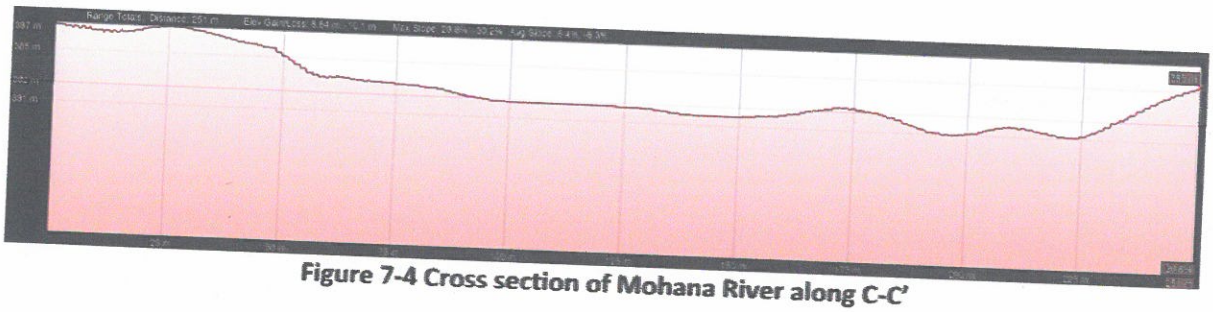

Figure 7-4 Cross section of Mohana River along C-C'

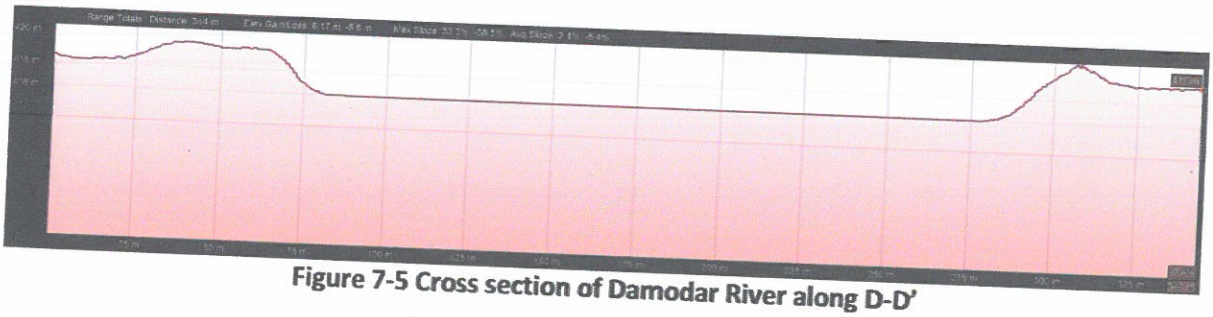

Figure 7-5 Cross section of Damodar River along D-D'

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

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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 distances vertically through the fluid before coming to rest.

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

2. Mode of sediment transport in rivers

Sediment transport in rivers provides a dynamic linkage between flow and channel form. Mainly there are three processes by which sediment load is transported and these are (i) rolling or traction, in which the particle moves along a sedimentary bed but is too heavy to be lifted from it; (ii) saltation; and (iii) suspension, in which particles remain permanently above the bed, sustained there by the turbulent flow of the water.

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

Bed load: Bedload is the portion of sediment transport that rolls, slides or bounces along the bottom of a waterway. This sediment is not truly suspended, as it sustains intermittent contact with the streambed, and the movement is neither uniform nor continuous. Bedload occurs when the force of the water flow is strong enough to overcome the weight and cohesion of the sediment. While the particles are pushed

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along, they typically do not move as fast as the water around them, as the flow rate is not great enough to fully suspend them. Bedload transport can occur during low flows (smaller particles) or at high flows (for larger particles). Approximately 5-20% of total sediment transport is bedload. In situations where the flow rate is strong enough, some of the smaller bedload particles can be pushed up into the water column and become suspended.

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

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

3. Sediment Transport Rate

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

4. Estimation of Sedimentation

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

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

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

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

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

5. Sediment Yield

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

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

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

A. Replenishment study based on satellite imagery involves demarcation of sand bars potential for riverbed mining. Both pre and post monsoon images need to be analysed to established potential sand bars. Volume estimation of sand is done by multiplying Depth and Area of the sand bar. The sand bars are interpreted with the help of satellite imagery. Ground truthing has been

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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 collation:**

Field data collations were done during pre-monsoon period, post monsoon period & end period for the river ghats on continuous basis. However, the nonoperational areas were covered through traverses. In both the cases, relative elevation levels were captured through DGPS/ Electronic Total Station. Thickness of the sand bars was measured through sectional profiles. In few instances, sieve analysis of the sands was carried out to derive the size frequency analysis.
Physical benchmark also established using DGPS at the river site.

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Figure 7-6 Site View of Field Survey

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- **Selection of Study profiles:**

Study profiles are selected based on the occurrence of the sand bars in the channel profiles. Aerial extents of each of the profiles are mapped from satellite imagery. Frequency distribution did while selection of the ground truthing of the blocks.

- **Data Compilation**

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

- Elevation levels of the different sand Ghats and Sand Bar's as measured at site.
- Extents of the sand bars are measured from the satellite imagery.
- Sand production data of the district.

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

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

- **Estimation of annual sand deposition:**

The major sand producing rivers of the Chatra district are Bokaro and Damodar River. Planning has been done for systematic sand mining in the rivers.

Altogether 334 sand bars have been identified during pre-monsoon period. Out of the total 334 Ghats, 75 are falling in Marhar River, 62 ghats are falling in Lilajan River, Mohana River having 80 ghats, 40 sand ghats falling on Garhi River, 53 ghats are in Barki River and rest 24 ghats are falling on Damodar River.

During post-monsoon period, total 353 sand ghats identified. Out of the total 353 Ghats, 59 are falling in Marhar River, 59 ghats are falling in Lilajan River, Mohana River having 85 ghats, 64 sand ghats falling on Garhi River, 56 ghats are in Barki River and rest 30 ghats are falling on Damodar River.

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

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

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

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

Pre monsoon						Post monsoon						
S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum	S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum	Difference in Sandbar (Mcum)
Estimation of Sand Resources in Pre-monsoon period & Post monsoon period of Marhar River												
1	PRE_CH_PR_MH_01	190	52620.64896	1	0.053	1	PO_CH_PR_MH_01_02	191	106343.8107	1	0.106	0.054
2	PRE_CH_PR_MH_02	191	17735.45919	1	0.018							-0.018
3	PRE_CH_PR_MH_03	192	17768.69863	1	0.018	2	PO_CH_PR_MH_03	192.5	36442.11456	1	0.036	0.019
4	PRE_CH_PR_MH_04	194	11889.32237	1	0.012							-0.012
5	PRE_CH_PR_MH_05	194	73043.01386	1	0.073	3	PO_CH_PR_MH_05	194.5	49850.63301	1	0.050	-0.023
6	PRE_CH_PR_MH_06	197	11579.29996	1	0.012	4	PO_CH_PR_MH_06	197.5	12070.94357	1	0.012	0.000
7	PRE_CH_PR_MH_07	199	5167.476697	1	0.005	5	PO_CH_PR_MH_07	199.5	4611.542677	1	0.005	-0.001
8	PRE_CH_PR_MH_08	199	5531.076966	1	0.006	6	PO_CH_PR_MH_08	199.5	5494.438335	1	0.005	0.000
9	PRE_CH_PR_MH_09	201	11365.86624	1	0.011	7	PO_CH_PR_MH_09	201.5	9272.657197	1	0.009	-0.002
10	PRE_CH_PR_MH_10	203	7689.32527	1	0.008	8	PO_CH_PR_MH_10	203.5	21078.74601	1	0.021	0.013
11	PRE_CH_PR_MH_11	205	5985.717268	1	0.006	9	PO_CH_PR_MH_11	205.5	6355.994912	1	0.006	0.000
12	PRE_CH_PR_MH_12	206	1318.798109	1	0.001	10	PO_CH_PR_MH_12	206.5	1343.920638	1	0.001	0.000
13	PRE_CH_PR_MH_13	206	2744.764115	1	0.003	11	PO_CH_PR_MH_13	206.5	2989.397673	1	0.003	0.000
14	PRE_CH_PR_MH_14	207	6542.94388	1	0.007	12	PO_CH_PR_MH_14	207.5	4520.260128	1	0.005	-0.002
15	PRE_CH_PR_MH_15	207	3820.697185	1	0.004	13	PO_CH_PR_MH_15	207.5	3759.725041	1	0.004	0.000
						14	PO_CH_PR_MH_15A		2563.047846	1	0.003	0.003
16	PRE_CH_PR_MH_16	206	6676.392777	1	0.007	15	PO_CH_PR_MH_16	206.5	6321.840633	1	0.006	0.000
17	PRE_CH_PR_MH_17	208	2076.91567	1	0.002							-0.002

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Pre monsoon						Post monsoon						Difference in Sandbar (Mcum)
S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M.	S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum	
						16	PO_CH_PR_MH_18		18533.36671	1	0.019	0.003
18	PRE_CH_PR_MH_18	209	15036.81235	1	0.015	17	PO_CH_PR_MH_18A	209.5	3866.161965	1	0.004	0.004
19	PRE_CH_PR_MH_19	214	4516.302627	1	0.005	18	PO_CH_PR_MH_19_20	206.5	8447.5548	1	0.008	0.004
20	PRE_CH_PR_MH_20	215	2694.703095	1	0.003							-0.003
21	PRE_CH_PR_MH_21	216	4987.206071	1	0.005	19	PO_CH_PR_MH_21	216.5	5188.342554	1	0.005	0.000
22	PRE_CH_PR_MH_22	217	7312.737688	1	0.007	20	PO_CH_PR_MH_22	217.5	7046.658748	1	0.007	0.000
23	PRE_CH_PR_MH_23	217	1291.738555	1	0.001	21	PO_CH_PR_MH_23	217.5	1308.695901	1	0.001	0.000
24	PRE_CH_PR_MH_24	218	1306.609367	1	0.001	22	PO_CH_PR_MH_24	218.5	950.888526	1	0.001	0.000
25	PRE_CH_PR_MH_25	219	8173.740313	1	0.008	23	PO_CH_PR_MH_25	219.5	6148.520083	1	0.006	-0.002
26	PRE_CH_PR_MH_26	221	1853.906343	1	0.002	24	PO_CH_PR_MH_26_27	206.5	3144.670211	1	0.003	0.001
27	PRE_CH_PR_MH_27	222	1126.44629	1	0.001							-0.001
28	PRE_CH_PR_MH_28	222	1234.976808	1	0.001							-0.001
29	PRE_CH_PR_MH_29	223	2564.934211	1	0.003	25	PO_CH_PR_MH_29	223.5	2625.947218	1	0.003	0.000
30	PRE_CH_PR_MH_30	223	1638.590504	1	0.002							-0.002
31	PRE_CH_PR_MH_31	225	2949.156108	1	0.003	26	PO_CH_PR_MH_31	225.5	3794.90809	1	0.004	0.001
32	PRE_CH_PR_MH_32	224	3427.13119	1	0.003	27	PO_CH_PR_MH_32	224.5	3093.883209	1	0.003	0.000
33	PRE_CH_PR_MH_33	226	10589.87201	1	0.011	28	PO_CH_PR_MH_33	226.5	9834.578561	1	0.010	-0.001
34	PRE_CH_PR_MH_34	229	1815.350139	1	0.002	29	PO_CH_PR_MH_34	229.5	1957.918017	1	0.002	0.000
35	PRE_CH_PR_MH_35	230	1244.378068	1	0.001							-0.001
36	PRE_CH_PR_MH_36	231	1727.403595	1	0.002	30	PO_CH_PR_MH_36	231.5	1894.151466	1	0.002	0.000
37	PRE_CH_PR_MH_37	233	261.906253	1	0.000							0.000
38	PRE_CH_PR_MH_38	206	11646.41435	1	0.012							-0.012
39	PRE_CH_PR_MH_39	207	21513.41643	1	0.022							-0.022
40	PRE_CH_PR_MH_40	207	24551.10812	1	0.025							-0.025

Pre monsoon						Post monsoon						Difference in Sandbar (Mcum)
S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M.	S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum	
41	PRE_CH_PR_MH_41	207	17241.64671	1	0.017	31	PO_CH_PR_MH_41	207.5	16248.56529	1	0.016	-0.001
42	PRE_CH_PR_MH_42	208	5783.21315	1	0.006							-0.006
43	PRE_CH_PR_MH_43	208	17013.16077	1	0.017	32	PO_CH_PR_MH_43	208.5	17881.98272	1	0.018	0.001
44	PRE_CH_PR_MH_44	209	5241.705222	1	0.005							-0.005
45	PRE_CH_PR_MH_45	211	192811.7783	1	0.193	33	PO_CH_PR_MH_45	211.5	193779.8009	1	0.194	0.001
46	PRE_CH_PR_MH_46	214	43261.83988	1	0.043							-0.043
47	PRE_CH_PR_MH_47	216	11230.65741	1	0.011							-0.011
48	PRE_CH_PR_MH_48	216	170179.1919	1	0.170							-0.170
49	PRE_CH_PR_MH_49	219	184592.6435	1	0.185	34	PO_CH_PR_MH_49	219.5	135994.5181	1	0.136	-0.049
50	PRE_CH_PR_MH_50	222	48642.70466	1	0.049							-0.049
51	PRE_CH_PR_MH_51	225	84004.28935	1	0.084	35	PO_CH_PR_MH_51	225.5	97094.48653	1	0.097	0.013
						36	PO_CH_PR_MH_51A		14946.22211	1	0.015	0.015
						37	PO_CH_PR_MH_51B		22887.65509	1	0.023	0.023
						38	PO_CH_PR_MH_51C		4158.316469	1	0.004	0.004
52	PRE_CH_PR_MH_52	234	14538.52631	1	0.015							-0.015
53	PRE_CH_PR_MH_53	232	86874.02205	1	0.087							-0.087
54	PRE_CH_PR_MH_54	236	83835.02848	1	0.084	39	PO_CH_PR_MH_54	236.5	51403.45565	1	0.051	-0.032
55	PRE_CH_PR_MH_55	237	131699.2702	1	0.132							-0.132
56	PRE_CH_PR_MH_56	239	18781.87163	1	0.019							-0.019
57	PRE_CH_PR_MH_57	240	10535.70612	1	0.011							-0.011
58	PRE_CH_PR_MH_58	242	3303.564107	1	0.003							-0.003
59	PRE_CH_PR_MH_59	241	3881.356494	1	0.004							-0.004
60	PRE_CH_PR_MH_60	242	10691.75536	1	0.011	40	PO_CH_PR_MH_60	242.5	8821.494727	1	0.009	-0.002
61	PRE_CH_PR_MH_61	245	10526.58487	1	0.011	41	PO_CH_PR_MH_61	245.5	9792.707878	1	0.010	-0.001
62	PRE_CH_PR_MH_62	246	35217.88833	1	0.035	42	PO_CH_PR_MH_62	246.5	15081.33364	1	0.015	-0.020
63	PRE_CH_PR_MH_63	246	9678.745262	1	0.010							-0.010

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Pre monsoon						Post monsoon						Difference in Sandbar (Mcum)
S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M.	S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum	
64	PRE_CH_PR_MH_64	247	46144.38694	1	0.046	43	PO_CH_PR_MH_64	247.5	47703.67697	1	0.048	0.002
65	PRE_CH_PR_MH_65	249	21096.10048	1	0.021	44	PO_CH_PR_MH_65	249.5	21436.82434	1	0.021	0.000
66	PRE_CH_PR_MH_66	250	22486.81254	1	0.022	45	PO_CH_PR_MH_66	250.5	25570.71529	1	0.026	0.003
						46	PO_CH_PR_MH_66A		6947.405227	1	0.007	0.007
67	PRE_CH_PR_MH_67	251	9407.867878	1	0.009	47	PO_CH_PR_MH_67	251.5	9311.776334	1	0.009	0.000
68	PRE_CH_PR_MH_68	254	16038.44036	1	0.016	48	PO_CH_PR_MH_68	254.5	15173.78062	1	0.015	-0.001
69	PRE_CH_PR_MH_69	255	25954.7542	1	0.026	49	PO_CH_PR_MH_69	255.5	18224.00207	1	0.018	-0.008
70	PRE_CH_PR_MH_70	259	13930.14834	1	0.014	50	PO_CH_PR_MH_70	259.5	22751.7541	1	0.023	0.009
71	PRE_CH_PR_MH_71	259	9098.538746	1	0.009	51	PO_CH_PR_MH_71	259.5	14095.74877	1	0.014	0.005
72	PRE_CH_PR_MH_72	259	6584.657356	1	0.007	52	PO_CH_PR_MH_72	259.5	7302.983075	1	0.007	0.001
73	PRE_CH_KD_MH_73	261	35676.03763	1	0.036	53	PO_CH_KD_MH_73	261.5	46697.811	1	0.047	0.011
74	PRE_CH_KD_MH_74	264	7159.27791	1	0.007	54	PO_CH_KD_MH_74	264.5	7287.260449	1	0.007	0.000
						55	PO_CH_KD_MH_74A		1208.036301	1	0.001	0.001
						56	PO_CH_KD_MH_74B		2479.954181	1	0.002	0.002
						57	PO_CH_KD_MH_74C		1905.731824	1	0.002	0.002
						58	PO_CH_KD_MH_74D		2163.212101	1	0.002	0.002
						59	PO_CH_KD_MH_74E		1981.23083	1	0.002	0.002
75	PRE_CH_PR_MH_74	242	62010.40747	1	0.062							-0.062
			1852175.837		**1.852**				**1191187.762**		**1.191**	-0.661

Estimation of Sand Resources in Pre monsoon period & Post monsoon period of Lilajan River

						1	PO_CH_HG_LJ_1A	161.5	264978.2932	1	0.265	0.265
1	PRE_CH_HG_LJ_01	161	395657.4161	1	0.396	2	PO_CH_HG_LJ_01		454040.1957	1	0.454	0.058
2	PRE_CH_HG_LJ_02	170	95795.74684	1	0.096	3	PO_CH_HG_LJ_02	170.5	132091.1904	1	0.132	0.036

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Pre monsoon						Post monsoon						Difference in Sandbar (Mcum)
S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M.	S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum	
3	PRE_CH_HG_LJ_03	172	175761.8268	1	0.176	4	PO_CH_HG_LJ_03	172.5	221825.1787	1	0.222	0.046
4	PRE_CH_HG_LJ_04	174	591306.6357	1	0.591	5	PO_CH_HG_LJ_04	174.5	620954.2229	1	0.621	0.030
5	PRE_CH_HG_LJ_05	181	3844.325799	1	0.004	6	PO_CH_HG_LJ_05	181.5	3665.746349	1	0.004	0.000
6	PRE_CH_HG_LJ_06	182	10267.33576	1	0.010	7	PO_CH_HG_LJ_06	182.5	10447.80445	1	0.010	0.000
7	PRE_CH_HG_LJ_07	182	5900.68748	1	0.006	8	PO_CH_HG_LJ_07	182.5	5267.401275	1	0.005	-0.001
8	PRE_CH_HG_LJ_08	183	3170.080621	1	0.003	9	PO_CH_HG_LJ_08	183.5	3060.02261	1	0.003	0.000
9	PRE_CH_HG_LJ_09	183	1517.843193	1	0.002							-0.002
10	PRE_CH_HG_LJ_10	184	14744.26934	1	0.015	10	PO_CH_HG_LJ_10	184.5	15363.05982	1	0.015	0.001
11	PRE_CH_HG_LJ_11	184	12685.70168	1	0.013	11	PO_CH_HG_LJ_11	184.5	8843.805283	1	0.009	-0.004
12	PRE_CH_HG_LJ_12	189	14292.67008	1	0.014	12	PO_CH_HG_LJ_12	189.5	14333.43277	1		-0.014
13	PRE_CH_HG_LJ_13	180	65894.18081	1	0.066	13	PO_CH_HG_LJ_13	180.5	75179.82351	1	0.075	0.009
14	PRE_CH_HG_LJ_14	181	100843.5272	1	0.101	14	PO_CH_HG_LJ_14	181.5	132344.6415	1	0.132	0.032
15	PRE_CH_HG_LJ_15	182	33944.9481	1	0.034	15	PO_CH_HG_LJ_15	182.5	30549.48478	1	0.031	-0.003
16	PRE_CH_HG_LJ_16	183	59705.22374	1	0.060	16	PO_CH_HG_LJ_16	183.5	60713.48782	1	0.061	0.001
17	PRE_CH_HG_LJ_17	183	164141.4067	1	0.164	17	PO_CH_HG_LJ_17	183.5	171678.6687	1	0.172	0.008
18	PRE_CH_HG_LJ_18	187	37915.6908	1	0.038							-0.038
19	PRE_CH_HG_LJ_19	189	94515.64402	1	0.095	18	PO_CH_HG_LJ_19	189.5	106138.2243	1	0.106	0.012
20	PRE_CH_HG_LJ_20	189	55738.37177	1	0.056	19	PO_CH_HG_LJ_20	189.5	56557.76348	1	0.057	0.001
21	PRE_CH_HG_LJ_21	199	13845.75687	1	0.014	20	PO_CH_HG_LJ_21	199.5	14270.38227	1	0.014	0.000
22	PRE_CH_HG_LJ_22	200	30607.00799	1	0.031	21	PO_CH_HG_LJ_22	200.5	30818.60787	1	0.031	0.000
23	PRE_CH_HG_LJ_23	203	14266.74876	1	0.014	22	PO_CH_HG_LJ_23	203.5	19146.81266	1	0.019	0.005
24	PRE_CH_HG_LJ_24	202	11454.70219	1	0.011	23	PO_CH_HG_LJ_24	202.5	13587.89258	1	0.014	0.002
25	PRE_CH_HG_LJ_25	205	6072.110229	1	0.006	24	PO_CH_HG_LJ_25	205.5	7429.945429	1	0.007	0.001
26	PRE_CH_HG_LJ_26	209	12477.6223	1	0.012	25	PO_CH_HG_LJ_26	209.5	17189.30806	1	0.017	0.005
27	PRE_CH_HG_LJ_27	210	5006.661063	1	0.005	26	PO_CH_HG_LJ_27	210.5	4662.755011	1	0.005	0.000
28	PRE_CH_HG_LJ_28	211	2232.988773	1	0.002	27	PO_CH_HG_LJ_28	211.5	2347.863785	1	0.002	0.000

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Pre monsoon						Post monsoon						Difference in Sandbar (Mcum)
S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M.	S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum	
29	PRE_CH_PR_LJ_29	221	5060.553927	1	0.005	28	PO_CH_PR_LJ_29	221.5	5136.910189	1	0.005	0.000
30	PRE_CH_HG_LJ_30	188	59620.83655	1	0.060	29	PO_CH_HG_LJ_30	188.5	59151.72326	1	0.059	0.000
31	PRE_CH_HG_LJ_31	190	177508.4813	1	0.178	30	PO_CH_HG_LJ_31	190.5	179608.6126	1	0.180	0.002
32	PRE_CH_HG_LJ_32	191	47269.83911	1	0.047	31	PO_CH_HG_LJ_32	191.5	42433.58302	1	0.042	-0.005
33	PRE_CH_HG_LJ_33	192	38552.8896	1	0.039	32	PO_CH_HG_LJ_33	192.5	38112.53653	1	0.038	0.000
34	PRE_CH_HG_LJ_34	194	43525.89677	1	0.044	33	PO_CH_HG_LJ_34	194.5	44780.45848	1	0.045	0.001
35	PRE_CH_HG_LJ_35	196	7836.697068	1	0.008	34	PO_CH_HG_LJ_35	196.5	7084.110987	1	0.007	-0.001
36	PRE_CH_HG_LJ_36	195	158694.6557	1	0.159	35	PO_CH_HG_LJ_36	195.5	86753.45103	1	0.087	-0.072
37	PRE_CH_HG_LJ_37	196	424356.5979	1	0.424	36	PO_CH_HG_LJ_37	196.5	399912.1725	1	0.400	-0.024
38	PRE_CH_CH_LJ_38	199	22446.26649	1	0.022	37	PO_CH_CH_LJ_38	199.5	30059.95995	1	0.030	0.008
39	PRE_CH_CH_LJ_39	199	69242.28979	1	0.069	38	PO_CH_CH_LJ_39	199.5	69806.09829	1	0.070	0.001
40	PRE_CH_CH_LJ_40	201	30628.53573	1	0.031	39	PO_CH_CH_LJ_40	201.5	31218.19572	1	0.031	0.001
41	PRE_CH_CH_LJ_41	206	22556.19182	1	0.023	40	PO_CH_CH_LJ_41	206.5	23175.63388	1	0.023	0.001
42	PRE_CH_CH_LJ_42	209	37117.66324	1	0.037	41	PO_CH_CH_LJ_42	209.5	36543.40701	1	0.037	-0.001
43	PRE_CH_CH_LJ_43	211	283949.0121	1	0.284	42	PO_CH_CH_LJ_43	211.5	199414.1147	1	0.199	-0.085
						43	PO_CH_CH_LJ_43A		49826.46019	1	0.050	0.050
44	PRE_CH_CH_LJ_44	212	66497.27743	1	0.066	44	PO_CH_CH_LJ_44	212.5	59022.65601	1	0.059	-0.007
45	PRE_CH_CH_LJ_45	217	28191.17623	1	0.028	45	PO_CH_CH_LJ_45	217.5	50850.28937	1	0.051	0.023
46	PRE_CH_CH_LJ_46	282	7360.235786	1	0.007	46	PO_CH_CH_LJ_46	282.5	9643.025628	1	0.010	0.002
47	PRE_CH_CH_LJ_47	286	13447.16947	1	0.013	47	PO_CH_CH_LJ_47	286.5	18552.74579	1	0.019	0.005
48	PRE_CH_HG_LJ_48	196	4013.955009	1	0.004	48	PO_CH_HG_LJ_48	196.5	4055.915939	1	0.004	0.000
49	PRE_CH_HG_LJ_49	199	4504.598444	1	0.005	49	PO_CH_HG_LJ_49	199.5	5112.485585	1	0.005	0.001
50	PRE_CH_HG_LJ_50	201	11320.53373	1	0.011	50	PO_CH_HG_LJ_50	201.5	17693.01415	1	0.018	0.006
51	PRE_CH_HG_LJ_51	202	2390.213509	1	0.002							-0.002
52	PRE_CH_HG_LJ_52	200	7786.913233	1	0.008	51	PO_CH_HG_LJ_52	200.5	8092.732549	1	0.008	0.000
						52	PO_CH_HG_LJ_52A	0.5	24900.59416	1	0.025	0.025

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Pre monsoon						Post monsoon						Difference in Sandbar (Mcum)
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53	PRE_CH_HG_LJ_53	201	45827.87968	1	0.046	53	PO_CH_HG_LJ_53	201.5	47926.18725	1	0.048	0.002
54	PRE_CH_HG_LJ_54	203	47054.3656	1	0.047	54	PO_CH_HG_LJ_54	203.5	46843.24993	1	0.047	0.000
55	PRE_CH_CH_LJ_55	205	9614.659981	1	0.010	55	PO_CH_CH_LJ_55	205.5	8368.607386	1	0.008	-0.001
56	PRE_CH_CH_LJ_56	207	63359.70535	1	0.063	56	PO_CH_CH_LJ_56	207.5	79909.30487	1	0.080	0.017
						57	PO_CH_CH_LJ_56A	0.5	13273.23067	1	0.013	0.013
57	PRE_CH_CH_LJ_57	210	7645.612906	1	0.008	58	PO_CH_CH_LJ_57_58	210.5	14835.34097	1	0.015	0.007
58	PRE_CH_CH_LJ_58	209	5060.995399	1	0.005							-0.005
59	PRE_CH_CH_LJ_59	211	49895.4703	1	0.050	59	PO_CH_CH_LJ_59	211.5	49939.55897	1	0.050	0.000
60	PRE_CH_CH_LJ_60	212	6349.683088	1	0.006							-0.006
61	PRE_CH_CH_LJ_61	211	2496.223271	1	0.002							-0.002
62	PRE_CH_CH_LJ_62	212	4003.87637	1	0.004							-0.004
			3848794.08		**3.849**				**4259522.38**		**4.245**	0.396
Estimation of Sand Resources in Pre monsoon period & Post monsoon period of Mohana River												
1	PRE_CH_KC_MA_01	373	12114.12774	1	0.012	1	PO_CH_KC_MA_01	373.5	15227.06619	1	0.015	0.003
2	PRE_CH_IK_MA_02	374	20399.99199	1	0.020	2	PO_CH_IK_MA_02	374.5	21467.00882	1	0.021	0.001
3	PRE_CH_IK_MA_03	375	21870.3675	1	0.022	3	PO_CH_IK_MA_03_04_05	375.5	59051.52309	1	0.059	0.037
4	PRE_CH_IK_MA_04	375	19664.82353	1	0.020							-0.020
5	PRE_CH_IK_MA_05	375	7607.199115	1	0.008							-0.008
6	PRE_CH_IK_MA_06	376	33356.12757	1	0.033	4	PO_CH_IK_MA_06	376.5	34531.74302	1	0.035	0.001
7	PRE_CH_IK_MA_07	376	16402.79508	1	0.016	5	PO_CH_IK_MA_07	376.5	19094.03353	1	0.019	0.003
8	PRE_CH_IK_MA_08	379	18371.10047	1	0.018	6	PO_CH_IK_MA_08	379.5	13286.27618	1	0.013	-0.005
9	PRE_CH_IK_MA_09	379	26915.46688	1	0.027	7	PO_CH_IK_MA_09	379.5	28385.3106	1	0.028	0.001
10	PRE_CH_IK_MA_10	389	59254.52109	1	0.059	8	PO_CH_IK_MA_10	389.5	49696.26472	1	0.050	-0.010
11	PRE_CH_IK_MA_11	388	32519.53375	1	0.033	9	PO_CH_IK_MA_11	388.5	35440.5164	1	0.035	0.003
						10	PO_CH_IK_MA_11A		2127.311116	1	0.002	0.002

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Pre monsoon						Post monsoon						Difference in Sandbar (Meum)
S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M.	S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum	
12	PRE_CH_IK_MA_12	389	11719.50518	1	0.012	11	PO_CH_IK_MA_12	389.5	7042.640053	1	0.007	-0.005
13	PRE_CH_IK_MA_13	389	12877.01221	1	0.013	12	PO_CH_IK_MA_13	389.5	12292.54938	1	0.012	-0.001
14	PRE_CH_IK_MA_14	390	12432.77237	1	0.012	13	PO_CH_IK_MA_14_15	390.5	29904.43768	1	0.030	0.017
15	PRE_CH_IK_MA_15	391	13300.7157	1	0.013							-0.013
						14	PO_CH_IK_MA_15A	392	4185.339885	1	0.004	0.004
						15	PO_CH_IK_MA_16	392.5	16211.28892	1	0.016	0.000
16	PRE_CH_IK_MA_16	392	15794.20095	1	0.016	16	PO_CH_IK_MA_16A	392	7013.705867	1	0.007	0.007
												-0.007
17	PRE_CH_IK_MA_17	393	7283.767133	1	0.007	17	PO_CH_IK_MA_18	393.5	4287.860576	1	0.004	-0.005
18	PRE_CH_IK_MA_18	393	9737.423758	1	0.010	18	PO_CH_IK_MA_18A		2332.869938	1	0.002	0.002
						19	PO_CH_IK_MA_19	392.5	6603.431413	1	0.007	-0.008
19	PRE_CH_IK_MA_19	392	14742.72373	1	0.015	20	PO_CH_IK_MA_19A		9944.269902	1	0.010	0.010
20	PRE_CH_IK_MA_20	396	12016.89471	1	0.012	21	PO_CH_IK_MA_20_21	396.5	12941.8226	1	0.013	0.001
												-0.025
21	PRE_CH_IK_MA_21	395	25283.94577	1	0.025	22	PO_CH_IK_MA_21A	397	6817.554028	1	0.007	0.007
22	PRE_CH_IK_MA_22	396	71835.21239	1	0.072	23	PO_CH_IK_MA_22	397	72018.53551	1	0.072	0.000
						24	PO_CH_IK_MA_22A		9530.536242	1	0.010	0.010
23	PRE_CH_IK_MA_23	397	17301.64068	1	0.017	25	PO_CH_IK_MA_23	397.5	27636.51996	1	0.028	0.010
24	PRE_CH_IK_MA_24	398	81630.82609	1	0.082	26	PO_CH_IK_MA_24	398.5	28497.41729	1	0.028	-0.053
						27	PO_CH_IK_MA_24A		7559.213798	1	0.008	0.008
						28	PO_CH_IK_MA_24B		5994.520451	1	0.006	0.006
						29	PO_CH_IK_MA_24C		21060.72081	1	0.021	0.021
25	PRE_CH_IK_MA_25	400	4116.808752	1	0.004	30	PO_CH_IK_MA_25	400.5	4690.444667	1	0.005	0.001
26	PRE_CH_IK_MA_26	401	17332.79615	1	0.017	31	PO_CH_IK_MA_26_27	401.5	19076.65321	1	0.019	0.002
27	PRE_CH_IK_MA_27	400	16639.60436	1	0.017							-0.017
						32	PO_CH_IK_MA_27A	400.5	5365.099644	1	0.005	0.005

Pre monsoon						Post monsoon						Difference in Sandbar (Mcum)
S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M.	S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum	
28	PRE_CH_IK_MA_28	401	9573.461069	1	0.010	33	PO_CH_IK_MA_27B	400.5	7877.393116	1	0.008	0.008
29	PRE_CH_IK_MA_29	402	52765.36791	1	0.053	34	PO_CH_IK_MA_28	401.5	9920.571071	1	0.010	0.000
30	PRE_CH_IK_MA_30	403	18254.40858	1	0.018	35	PO_CH_IK_MA_29	402.5	54261.50157	1	0.054	0.001
31	PRE_CH_GD_MA_31	403	12901.83961	1	0.013	36	PO_CH_IK_MA_30	403.5	18673.41639	1	0.019	0.000
32	PRE_CH_GD_MA_32	404	7571.108811	1	0.008	37	PO_CH_GD_MA_31	403.5	14948.39362	1	0.015	0.002
33	PRE_CH_GD_MA_33	405	18877.54026	1	0.019	38	PO_CH_GD_MA_32	404.5	8597.270294	1	0.009	0.001
34	PRE_CH_GD_MA_34	406	4659.637386	1	0.005	39	PO_CH_GD_MA_33	405.5	19688.40924	1	0.020	0.001
35	PRE_CH_GD_MA_35	405	4805.961668	1	0.005	40	PO_CH_GD_MA_34	406.5	4860.793337	1	0.005	0.000
36	PRE_CH_GD_MA_36	403	21752.41559	1	0.022	41	PO_CH_GD_MA_35	405.5	5141.5694	1	0.005	0.000
37	PRE_CH_GD_MA_37	406	4559.210622	1	0.005	42	PO_CH_GD_MA_36	403.5	21974.66926	1	0.022	0.000
38	PRE_CH_GD_MA_38	406	3031.681469	1	0.003	43	PO_CH_GD_MA_37	406.5	4669.636529	1	0.005	0.000
39	PRE_CH_IK_MA_39	406	7408.365921	1	0.007	44	PO_CH_GD_MA_38	406.5	6621.179892	1	0.007	0.004
40	PRE_CH_IK_MA_40	408	60221.35169	1	0.060							-0.007
41	PRE_CH_GD_MA_41	433	46956.97527	1	0.047	45	PO_CH_IK_MA_40	408.5	55373.64533	1	0.055	-0.005
42	PRE_CH_GD_MA_42	435	17654.02038	1	0.018	46	PO_CH_GD_MA_41	433.5	19081.14736	1	0.019	-0.028
43	PRE_CH_GD_MA_43	447	34060.51826	1	0.034	47	PO_CH_GD_MA_42	435.5	10238.48353	1	0.010	-0.007
44	PRE_CH_GD_MA_44	448	45056.28742	1	0.045	48	PO_CH_GD_MA_43	447.5	39590.64338	1	0.040	0.006
45	PRE_CH_GD_MA_45	449	7294.1674	1	0.007	49	PO_CH_GD_MA_44	448.5	46234.58232	1	0.046	0.001
46	PRE_CH_PG_MA_46	452	22860.13895	1	0.023	50	PO_CH_GD_MA_45	449.5	6785.502746	1	0.007	-0.001
47	PRE_CH_PG_MA_47	453	13522.49555	1	0.014	51	PO_CH_PG_MA_46	452.5	22987.55274	1	0.023	0.000
48	PRE_CH_PG_MA_48	455	10663.57814	1	0.011	52	PO_CH_PG_MA_47	453.5	14736.28074	1	0.015	0.001
49	PRE_CH_PG_MA_49	457	16708.15485	1	0.017	53	PO_CH_PG_MA_48	455.5	11152.81581	1	0.011	0.000
50	PRE_CH_PG_MA_50	459	17087.86289	1	0.017	54	PO_CH_PG_MA_49	457.5	17029.74747	1	0.017	0.000
51	PRE_CH_PG_MA_51	460	50168.48079	1	0.050	55	PO_CH_PG_MA_50	459.5	17889.90973	1	0.018	0.001
52	PRE_CH_PG_MA_52	460	9673.870171	1	0.010	56	PO_CH_PG_MA_51	460.5	49736.37584	1	0.050	0.000
						57	PO_CH_PG_MA_52	460.5	11764.21969	1	0.012	0.002

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Pre monsoon						Post monsoon						Difference in Sandbar (Mcum)
S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M.	S L No	Sand Par_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum	
53	PRE_CH_PG_MA_53	462	5123.46491	1	0.005	58	PO_CH_PG_MA_53	462.5	6385.836833	1	0.006	0.001
54	PRE_CH_PG_MA_54	463	4903.058905	1	0.005	59	PO_CH_PG_MA_54	463.5	6141.07176	1	0.006	0.001
55	PRE_CH_PG_MA_55	468	23029.30905	1	0.023	60	PO_CH_PG_MA_55	468.5	25477.35644	1	0.025	0.002
56	PRE_CH_PG_MA_56	477	2113.222299	1	0.002	61	PO_CH_PG_MA_56	477.5	3610.503661	1	0.004	0.001
57	PRE_CH_PG_MA_57	477	2814.513485	1	0.003	62	PO_CH_PG_MA_57	477.5	3075.448908	1	0.003	0.000
58	PRE_CH_PG_MA_58	483	1609.485184	1	0.002	63	PO_CH_PG_MA_58	483.5	1770.664659	1	0.002	0.000
59	PRE_CH_PG_MA_59	482	4549.70938	1	0.005	64	PO_CH_PG_MA_59	482.5	4714.10655	1	0.005	0.000
60	PRE_CH_PG_MA_60	482	4096.46841	1	0.004	65	PO_CH_PG_MA_60	482.5	4705.510123	1	0.005	0.001
61	PRE_CH_PG_MA_61	481	2664.219088	1	0.003	66	PO_CH_PG_MA_61	481.5	3307.445571	1	0.003	0.001
						67	PO_CH_PG_MA_61A		2644.812338	1	0.003	0.003
						68	PO_CH_SR_MA_61B		11436.55215	1	0.011	0.011
62	PRE_CH_SR_MA_62	488	3670.802208	1	0.004	69	PO_CH_SR_MA_62	488.5	3934.482239	1	0.004	0.000
63	PRE_CH_SR_MA_63	489	9231.1893	1	0.009	70	PO_CH_SR_MA_63	489.5	11273.10531	1	0.011	0.002
64	PRE_CH_PG_MA_64	463	13891.56235	1	0.014	71	PO_CH_PG_MA_64	463.5	12825.71017	1	0.013	-0.001
65	PRE_CH_PG_MA_65	467	8216.036304	1	0.008	72	PO_CH_PG_MA_65	467.5	6217.646371	1	0.006	-0.002
66	PRE_CH_PG_MA_66	468	2902.737455	1	0.003	73	PO_CH_PG_MA_66	468.5	3184.796011	1	0.003	0.000
67	PRE_CH_PG_MA_67	470	5330.18417	1	0.005	74	PO_CH_PG_MA_67	470.5	6871.494924	1	0.007	0.002
68	PRE_CH_PG_MA_68	471	4036.998382	1	0.004	75	PO_CH_PG_MA_68	471.5	4529.191107	1	0.005	0.000
69	PRE_CH_PG_MA_69	480	25330.01987	1	0.025	76	PO_CH_PG_MA_69	480.5	25393.31387	1	0.025	0.000
70	PRE_CH_PG_MA_70	482	5957.410051	1	0.006	77	PO_CH_PG_MA_70	482.5	5961.806555	1	0.006	0.000
71	PRE_CH_PG_MA_71	483	2114.628877	1	0.002	78	PO_CH_PG_MA_71_72	483	4122.910301	1	0.004	0.002
72	PRE_CH_PG_MA_72	482	816.103013	1	0.001							-0.001
73	PRE_CH_PG_MA_73	484	4232.211815	1	0.004	79	PO_CH_PG_MA_73	484.5	4320.15142	1	0.004	0.000
74	PRE_CH_PG_MA_74	485	7791.928703	1	0.008	80	PO_CH_PG_MA_74	485.5	8134.904846	1	0.008	0.000
75	PRE_CH_PG_MA_75	487	9137.947132	1	0.009	81	PO_CH_PG_MA_75	487.5	10546.3873	1	0.011	0.001
76	PRE_CH_PG_MA_76	488	4896.419986	1	0.005	82	PO_CH_PG_MA_76	488.5	5074.7572	1	0.005	0.000

Pre monsoon						Post monsoon						Difference in Sandbar (Mcum)
S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M.	S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum	
77	PRE_CH_PG_MA_77	490	1951.185495	1	0.002							
78	PRE_CH_PG_MA_78	492	2655.316496	1	0.003	83	PO_CH_PG_MA_78	492.5	3278.233419	1	0.003	-0.002
79	PRE_CH_PG_MA_79	495	5527.98473	1	0.006	84	PO_CH_PG_MA_79	495.5	5948.509105	1	0.006	0.001
80	PRE_CH_PG_MA_80	496	4425.686254	1	0.004	85	PO_CH_PG_MA_80	496.5	4584.53288	1	0.005	0.000
			1303630.61		**1.30**				**1298621.44**		**1.30**	0.000
Estimation of Sand Resources in Pre monsoon period & Post monsoon period of Garhi River												-0.005
1	PRE_CH_KC_GH_01	380	12311.65242	1	0.012	1	PO_CH_KC_GH_01	380.5	14750.00325	1	0.015	0.002
2	PRE_CH_KC_GH_02	380	8207.594538	1	0.008	2	PO_CH_KC_GH_02	380.5	4630.921387	1	0.005	-0.004
3	PRE_CH_KC_GH_03	379	6115.18039	1	0.006	3	PO_CH_KC_GH_02_03	379.5	5285.03697	1	0.005	-0.001
4	PRE_CH_KC_GH_04	381	4741.813461	1	0.005	4	PO_CH_KC_GH_03_04	381.5	11974.33878	1	0.012	0.007
5	PRE_CH_KC_GH_05	380	2676.557952	1	0.003	5	PO_CH_KC_GH_05	380.5	3691.412417	1	0.004	0.001
6	PRE_CH_KC_GH_06	381	3843.682017	1	0.004	6	PO_CH_KC_GH_06	381.5	4870.903437	1	0.005	0.001
7	PRE_CH_KC_GH_07	381	2749.127173	1	0.003							-0.003
8	PRE_CH_KC_GH_08	381	5327.442781	1	0.005							-0.005
9	PRE_CH_KC_GH_09	383	34971.79956	1	0.035	7	PO_CH_KC_GH_09	383.5	24197.08329	1	0.024	-0.011
10	PRE_CH_KC_GH_10	384	7188.005062	1	0.007	8	PO_CH_KC_GH_10	384.5	7552.167193	1	0.008	0.000
						9	PO_CH_KC_GH_10A		1692.555565	1	0.002	0.002
						10	PO_CH_KC_GH_10B		5760.652763	1	0.006	0.006
11	PRE_CH_KC_GH_11	382	19829.33976	1	0.020	11	PO_CH_KC_GH_11	382.5	20045.46437	1	0.020	0.000
12	PRE_CH_KC_GH_12	386	18804.43996	1	0.019	12	PO_CH_KC_GH_12	386.5	18240.58944	1	0.018	-0.001
13	PRE_CH_KC_GH_13	388	4310.756322	1	0.004	13	PO_CH_KC_GH_13	388.5	4543.552577	1	0.005	0.000
14	PRE_CH_KC_GH_14	390	5613.033345	1	0.006	14	PO_CH_KC_GH_14	390.5	7046.359814	1	0.007	0.001
						15	PO_CH_KC_GH_14A		3093.488695	1	0.003	0.003
						16	PO_CH_KC_GH_14B		2015.280693	1	0.002	0.002
						17	PO_CH_KC_GH_14C		3877.331042	1	0.004	0.004

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Pre monsoon						Post monsoon						Difference in Sandbar (Mcum)
S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M.	S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum	
						18	PO_CH_KC_GH_14D		1664.111764	1	0.002	0.002
15	PRE_CH_KC_GH_15	390	4888.515734	1	0.005	19	PO_CH_KC_GH_15	390.5	6358.397552	1	0.006	0.001
						20	PO_CH_KC_GH_15A		4111.156777	1	0.004	0.004
16	PRE_CH_KC_GH_16	391	3126.83069	1	0.003	21	PO_CH_KC_GH_16	391.5	3436.583494	1	0.003	0.000
17	PRE_CH_KC_GH_17	392	7461.250707	1	0.007	22	PO_CH_KC_GH_17	392.5	9302.231496	1	0.009	0.002
18	PRE_CH_KC_GH_18	392	6455.861967	1	0.006	23	PO_CH_KC_GH_18	392.5	6441.215633	1	0.006	0.000
19	PRE_CH_KC_GH_19	393	8149.382796	1	0.008	24	PO_CH_KC_GH_19	393.5	8787.036034	1	0.009	0.001
20	PRE_CH_KC_GH_20	394	13681.28976	1	0.014	25	PO_CH_KC_GH_20	394.5	14753.30412	1	0.015	0.001
						26	PO_CH_KC_GH_20A		3988.178016	1	0.004	0.004
						27	PO_CH_KC_GH_20B		5134.23403	1	0.005	0.005
						28	PO_CH_KC_GH_20C		1756.593874	1	0.002	0.002
21	PRE_CH_KC_GH_21	396	8630.590398	1	0.009	29	PO_CH_KC_GH_21	396.5	10607.05806	1	0.011	0.002
						30	PO_CH_KC_GH_21A		3637.581852	1	0.004	0.004
						31	PO_CH_KC_GH_21B		10526.37914	1	0.011	0.011
						32	PO_CH_KC_GH_21C		11556.9233	1	0.012	0.012
22	PRE_CH_KC_GH_22	398	3370.654115	1	0.003	33	PO_CH_KC_GH_22	398.5	3623.901929	1	0.004	0.000
						34	PO_CH_KC_GH_22A		4856.725469	1	0.005	0.005
						35	PO_CH_KC_GH_22B		8218.625953	1	0.008	0.008
						36	PO_CH_KC_GH_22C		4900.741504	1	0.005	0.005
						37	PO_CH_KC_GH_22D		15764.33325	1	0.016	0.016
						38	PO_CH_KC_GH_22E		17783.14389	1	0.018	0.018
						39	PO_CH_KC_GH_22F		13570.46505	1	0.014	0.014
						40	PO_CH_GD_GH_22G		10121.87532	1	0.010	0.010
						41	PO_CH_GD_GH_22H		16851.42831	1	0.017	0.017
						42	PO_CH_GD_GH_22I		9092.874038	1	0.009	0.009
						43	PO_CH_GD_GH_22J		9575.707402	1	0.010	0.010

Pre monsoon						Post monsoon						Difference in Sandbar (Mcum)
S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M.	S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum	
23	PRE_CH_GD_GH_23	405	8773.200046	1	0.009	44	PO_CH_GD_GH_23	405.5	10853.56478	1	0.011	0.002
24	PRE_CH_GD_GH_24	409	11521.03997	1	0.012	45	PO_CH_GD_GH_24	409.5	14161.78386	1	0.014	0.003
25	PRE_CH_GD_GH_25	407	2927.927504	1	0.003	46	PO_CH_GD_GH_25	407.5	3695.668588	1	0.004	0.001
26	PRE_CH_GD_GH_26	403	4753.04121	1	0.005	47	PO_CH_GD_GH_26	403.5	5900.882344	1	0.006	0.001
27	PRE_CH_GD_GH_27	408	3477.459995	1	0.003	48	PO_CH_GD_GH_27	408.5	4404.472269	1	0.004	0.001
28	PRE_CH_GD_GH_28	409	7942.338105	1	0.008	49	PO_CH_GD_GH_28	409.5	8989.169202	1	0.009	0.001
29	PRE_CH_GD_GH_29	413	5217.988333	1	0.005	50	PO_CH_GD_GH_29	413.5	5796.898046	1	0.006	0.001
30	PRE_CH_GD_GH_30	414	6717.626827	1	0.007	51	PO_CH_GD_GH_30	414.5	7668.021661	1	0.008	0.001
31	PRE_CH_GD_GH_31	413	5006.987459	1	0.005	52	PO_CH_GD_GH_31	413.5	5684.631972	1	0.006	0.001
32	PRE_CH_GD_GH_32	417	2591.140882	1	0.003	53	PO_CH_GD_GH_32	417.5	2917.988028	1	0.003	0.000
33	PRE_CH_GD_GH_33	418	6704.173472	1	0.007	54	PO_CH_GD_GH_33	418.5	6796.233902	1	0.007	0.000
34	PRE_CH_GD_GH_34	418	4811.877866	1	0.005	55	PO_CH_GD_GH_34	418.5	4230.463302	1	0.004	-0.001
35	PRE_CH_GD_GH_35	428	8545.334845	1	0.009	56	PO_CH_GD_GH_35	428.5	8103.197394	1	0.008	0.000
36	PRE_CH_GD_GH_36	428	2443.972293	1	0.002	57	PO_CH_GD_GH_36	428.5	2694.322923	1	0.003	0.000
37	PRE_CH_GD_GH_37	430	2798.659616	1	0.003	58	PO_CH_GD_GH_37	430.5	3853.340908	1	0.004	0.001
38	PRE_CH_GD_GH_38	438	2805.135625	1	0.003	59	PO_CH_GD_GH_38	438.5	3075.852609	1	0.003	0.000
39	PRE_CH_KC_GH_39	389	1931.972311	1	0.002	60	PO_CH_KC_GH_39	389.5	2008.914434	1	0.002	0.000
40	PRE_CH_KC_GH_40	390	1929.547451	1	0.002	61	PO_CH_KC_GH_40	390.5	2401.767845	1	0.002	0.000
						62	PO_CH_KC_GH_40A		5500.250195	1	0.006	0.006
						63	PO_CH_KC_GH_40B		1431.013107	1	0.001	0.001
						64	PO_CH_KC_GH_40C		2040.226214	1	0.002	0.002
			283354.22		**0.28**				**471896.61**		**0.47**	0.189

Estimation of Sand Resources in Pre monsoon period & Post monsoon period of Barki River

						1	PO_CH_TD_BI_A	492	2183.038817	1	0.002	0.002
						2	PO_CH_TD_BI_B	492	3736.861902	1	0.004	0.004
						3	PO_CH_TD_BI_C	492	5887.533558	1	0.006	0.006

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Pre monsoon						Post monsoon						Difference in Sandbar (Mcum)
S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M.	S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum	
						4	PO_CH_TD_BI_D	492	2219.213962	1	0.002	0.002
1	PRE_CH_TD_BI_01	495	3378.445081	1	0.003	5	PO_CH_TD_BI_01	495.5	3907.103478	1	0.004	0.001
2	PRE_CH_TD_BI_02	493	1378.390454	1	0.001	6	PO_CH_TD_BI_02	493.5	1427.391242	1	0.001	0.000
3	PRE_CH_TD_BI_03	492	1526.17578	1	0.002	7	PO_CH_TD_BI_03	492.5	1696.774859	1	0.002	0.000
4	PRE_CH_TD_BI_04	477	6350.555649	1	0.006	8	PO_CH_TD_BI_04	477.5	3976.12739	1	0.004	-0.002
5	PRE_CH_TD_BI_05	475	1401.623702	1	0.001	9	PO_CH_TD_BI_05	475.5	1214.359032	1	0.001	0.000
6	PRE_CH_TD_BI_06	474	1569.007378	1	0.002							-0.002
7	PRE_CH_TD_BI_07	475	1393.922828	1	0.001	10	PO_CH_TD_BI_07	475.5	1410.839442	1	0.001	0.000
8	PRE_CH_TD_BI_08	474	1604.782684	1	0.002							-0.002
9	PRE_CH_TD_BI_09	473	3724.688512	1	0.004	11	PO_CH_TD_BI_09	473.5	3582.3171	1	0.004	0.000
10	PRE_CH_TD_BI_10	473	2800.662308	1	0.003	12	PO_CH_TD_BI_10	473.5	3312.976356	1	0.003	0.001
11	PRE_CH_TD_BI_11	473	3134.120293	1	0.003	13	PO_CH_TD_BI_11	473.5	1492.305697	1	0.001	-0.002
12	PRE_CH_TD_BI_12	473	3282.812855	1	0.003	14	PO_CH_TD_BI_12	473.5	3536.554346	1	0.004	0.000
13	PRE_CH_TD_BI_13	471	5189.08716	1	0.005	15	PO_CH_TD_BI_13	471.5	5013.827615	1	0.005	0.000
14	PRE_CH_TD_BI_14	472	2603.220468	1	0.003	16	PO_CH_TD_BI_14	472.5	3288.190218	1	0.003	0.001
						17	PO_CH_TD_BI_14A		2352.832036	1	0.002	0.002
15	PRE_CH_TD_BI_15	474	2569.964217	1	0.003	18	PO_CH_TD_BI_15	474.5	2439.857611	1	0.002	0.000
16	PRE_CH_TD_BI_16	470	9239.78604	1	0.009	19	PO_CH_TD_BI_16	470.5	9883.896228	1	0.010	0.001
17	PRE_CH_TD_BI_17	469	7006.177	1	0.007	20	PO_CH_TD_BI_17	469.5	8215.446472	1	0.008	0.001
18	PRE_CH_TD_BI_18	467	4886.540873	1	0.005	21	PO_CH_TD_BI_18	467.5	5023.002026	1	0.005	0.000
19	PRE_CH_TD_BI_19	466	7241.643742	1	0.007	22	PO_CH_TD_BI_19	466.5	7751.083601	1	0.008	0.001
20	PRE_CH_TD_BI_20	466	32314.2552	1	0.032	23	PO_CH_TD_BI_20	466.5	31461.88962	1	0.031	-0.001
21	PRE_CH_TD_BI_21	465	15772.6956	1	0.016	24	PO_CH_TD_BI_21	465.5	15697.97951	1	0.016	0.000
22	PRE_CH_TD_BI_22	465	28203.06366	1	0.028	25	PO_CH_TD_BI_22	465.5	33742.38577	1	0.034	0.006
23	PRE_CH_TD_BI_23	464	10662.81125	1	0.011	26	PO_CH_TD_BI_23	464.5	14485.70637	1	0.014	0.004
24	PRE_CH_TD_BI_24	463	28737.52465	1	0.029	27	PO_CH_TD_BI_24	463.5	31809.7424	1	0.032	0.003

Pre monsoon						Post monsoon						Difference in Sandbar (Mcum)
S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M.	S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum	
25	PRE_CH_TD_BI_25	462	25124.64361	1	0.025	28	PO_CH_TD_BI_25	462.5	25329.86898	1	0.025	0.000
26	PRE_CH_TD_BI_26	461	6567.720777	1	0.007	29	PO_CH_TD_BI_26	461.5	6664.491827	1	0.007	0.000
27	PRE_CH_TD_BI_27	442	6589.899242	1	0.007	30	PO_CH_TD_BI_27	442.5	7178.605715	1	0.007	0.001
28	PRE_CH_TD_BI_28	441	6835.486764	1	0.007	31	PO_CH_TD_BI_28	441.5	7344.67989	1	0.007	0.001
29	PRE_CH_TD_BI_29	440	4619.949633	1	0.005	32	PO_CH_TD_BI_29	440.5	5497.46507	1	0.005	0.001
30	PRE_CH_TD_BI_30	439	13964.17427	1	0.014	33	PO_CH_TD_BI_30	439.5	17163.91056	1	0.017	0.003
31	PRE_CH_TD_BI_31	439	9246.648956	1	0.009	34	PO_CH_TD_BI_31	439.5	9558.435113	1	0.010	0.000
32	PRE_CH_TD_BI_32	429	1703.838695	1	0.002	35	PO_CH_TD_BI_32	429.5	1953.80067	1	0.002	0.000
33	PRE_CH_TD_BI_33	428	3154.843193	1	0.003	36	PO_CH_TD_BI_33	428.5	3467.171768	1	0.003	0.000
34	PRE_CH_TD_BI_34	429	2891.930101	1	0.003	37	PO_CH_TD_BI_34	429.5	2872.909784	1	0.003	0.000
35	PRE_CH_TD_BI_35	427	2402.212407	1	0.002	38	PO_CH_TD_BI_35	427.5	2397.241899	1	0.002	0.000
36	PRE_CH_TD_BI_36	428	2740.968882	1	0.003	39	PO_CH_TD_BI_36	428.5	2307.457983	1	0.002	0.000
37	PRE_CH_TD_BI_37	426	3071.255	1	0.003	40	PO_CH_TD_BI_37	426.5	3482.193823	1	0.003	0.000
38	PRE_CH_TD_BI_38	424	3054.063536	1	0.003	41	PO_CH_TD_BI_38	424.5	4195.479629	1	0.004	0.001
39	PRE_CH_TD_BI_39	423	4988.518485	1	0.005	42	PO_CH_TD_BI_39	423.5	5775.489273	1	0.006	0.001
40	PRE_CH_TD_BI_40	422	4817.533647	1	0.005	43	PO_CH_TD_BI_40	422.5	5517.908394	1	0.006	0.001
41	PRE_CH_TD_BI_41	422	2809.928026	1	0.003	44	PO_CH_TD_BI_41	422.5	3301.755497	1	0.003	0.000
42	PRE_CH_TD_BI_42	422	4112.74575	1	0.004	45	PO_CH_TD_BI_42	422.5	6082.612796	1	0.006	0.002
43	PRE_CH_TD_BI_43	423	2206.135124	1	0.002	46	PO_CH_TD_BI_43	423.5	2447.90162	1	0.002	0.000
44	PRE_CH_TD_BI_44	421	1259.477559	1	0.001	47	PO_CH_TD_BI_44	421.5	1585.177294	1	0.002	0.000
						48	PO_CH_TD_BI_44A		2399.963274	1	0.002	0.002
45	PRE_CH_TD_BI_45	420	6164.669006	1	0.006	49	PO_CH_TD_BI_45	420.5	6893.089985	1	0.007	0.001
46	PRE_CH_TD_BI_46	421	3908.725665	1	0.004	50	PO_CH_TD_BI_46	421.5	4886.177606	1	0.005	0.001
47	PRE_CH_TD_BI_47	418	6160.57172	1	0.006	51	PO_CH_TD_BI_47	418.5	6785.973229	1	0.007	0.001
48	PRE_CH_TD_BI_48	421	15539.18144	1	0.016	52	PO_CH_TD_BI_48	421.5	17448.62681	1	0.017	0.002
49	PRE_CH_TD_BI_49	416	8937.776361	1	0.009	53	PO_CH_TD_BI_49	416.5	10615.78358	1	0.011	0.002

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Pre monsoon						Post monsoon						Difference in Sandbar (Mcum)
S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M.	S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum	
50	PRE_CH_TD_BI_50	417	23476.47935	1	0.023	54	PO_CH_TD_BI_50	417.5	25318.83835	1	0.025	0.002
51	PRE_CH_TD_BI_51	416	45438.66282	1	0.045	55	PO_CH_TD_BI_51	416.5	48523.39091	1	0.049	0.003
52	PRE_CH_TD_BI_52	416	147797.1471	1	0.148	56	PO_CH_TD_BI_52	416.5	158801.3166	1	0.159	0.011
53	PRE_CH_TD_BI_53	412	17736.01907	1	0.018							-0.018
			573293.16		**0.57**				**616546.95**		**0.62**	0.043

Estimation of Sand Resources in Pre monsoon period & Post monsoon period of Damodar River

						1	PO_CH_TD_DA_A	442	19801.90494	1	0.020	0.020
						2	PO_CH_TD_DA_01	442.5	6466.021568	1	0.006	0.002
1	PRE_CH_TD_DA_01	442	4627.596165	1	0.005	3	PO_CH_TD_DA_1A		8376.032651	1	0.008	0.008
2	PRE_CH_TD_DA_02	441	6619.927895	1	0.007							-0.007
3	PRE_CH_TD_DA_03	439	2660.598153	1	0.003	4	PO_CH_TD_DA_03	439.5	4944.949375	1	0.005	0.002
4	PRE_CH_TD_DA_04	438	8779.939864	1	0.009	5	PO_CH_TD_DA_04	438.5	9865.020635	1	0.010	0.001
						6	PO_CH_TD_DA_4A		3509.890777	1	0.004	0.004
						7	PO_CH_TD_DA_4B		5097.099759	1	0.005	0.005
5	PRE_CH_TD_DA_05	437	23978.17165	1	0.024	8	PO_CH_TD_DA_05	437.5	26659.78823	1	0.027	0.003
6	PRE_CH_TD_DA_06	438	4937.94594	1	0.005	9	PO_CH_TD_DA_06	438.5	8129.209403	1	0.008	0.003
						10	PO_CH_TD_DA_6A		14631.88938	1	0.015	0.015
						11	PO_CH_TD_DA_6B		7050.898568	1	0.007	0.007
						12	PO_CH_TD_DA_6C		11049.3577	1	0.011	0.011
7	PRE_CH_TD_DA_07	434	4902.110158	1	0.005	13	PO_CH_TD_DA_07	434.5	7240.700201	1	0.007	0.002
8	PRE_CH_TD_DA_08	433	4298.585414	1	0.004	14	PO_CH_TD_DA_08	433.5	11472.03075	1	0.011	0.007
9	PRE_CH_TD_DA_09	434	5904.067556	1	0.006	15	PO_CH_TD_DA_09	434.5	11056.24	1	0.011	0.005
10	PRE_CH_TD_DA_10	432	23668.39625	1	0.024	16	PO_CH_TD_DA_10	432.5	32857.97772	1	0.033	0.009
11	PRE_CH_TD_DA_11	428	15036.95424	1	0.015	17	PO_CH_TD_DA_11	428.5	21044.35697	1	0.021	0.006
12	PRE_CH_TD_DA_12	427	10350.62022	1	0.010	18	PO_CH_TD_DA_12	427.5	16081.34334	1	0.016	0.006
13	PRE_CH_TD_DA_13	427	8464.613729	1	0.008	19	PO_CH_TD_DA_13	427.5	10563.12422	1	0.011	0.002

Pre monsoon						Post monsoon						Difference in Sandbar (Mcum)
S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M.	S L No	Sand Bar_Code	RL (m)	Area in sq.m.	Sand Thickness in m.	Sand Volume in M. Cum	
14	PRE_CH_TD_DA_14	425	79250.96974	1	0.079	20	PO_CH_TD_DA_14	425.5	95753.32422	1	0.096	0.017
15	PRE_CH_TD_DA_15	423	102096.0536	1	0.102	21	PO_CH_TD_DA_15	423.5	137525.983	1	0.138	0.035
16	PRE_CH_TD_DA_16	419	33284.05597	1	0.033	22	PO_CH_TD_DA_16	419.5	42333.87308	1	0.042	0.009
17	PRE_CH_TD_DA_17	419	37936.07774	1	0.038	23	PO_CH_TD_DA_17	419.5	54852.43013	1	0.055	0.017
18	PRE_CH_TD_DA_18	419	25744.57591	1	0.026	24	PO_CH_TD_DA_18	419.5	37127.13033	1	0.037	0.011
19	PRE_CH_TD_DA_19	418	20539.80091	1	0.021	25	PO_CH_TD_DA_19	418.5	46325.07493	1	0.046	0.026
20	PRE_CH_TD_DA_20	415	30336.03808	1	0.030	26	PO_CH_TD_DA_20	415.5	37960.30482	1	0.038	0.008
21	PRE_CH_TD_DA_21	413	36819.46502	1	0.037	27	PO_CH_TD_DA_21	413.5	47410.84752	1	0.047	0.011
22	PRE_CH_TD_DA_22	412	7544.290679	1	0.008	28	PO_CH_TD_DA_22	412.5	11499.29184	1	0.011	0.004
23	PRE_CH_TD_DA_23	411	25103.73081	1	0.025	29	PO_CH_TD_DA_23	411.5	33100.58405	1	0.033	0.008
24	PRE_CH_TD_DA_24	410	7192.753533	1	0.007	30	PO_CH_TD_DA_24	410.5	7623.065098	1	0.008	0.000
			530077.34		**0.53**				**787409.75**		**0.79**	0.257

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

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Table 7-5 Sediment Load comparison between Pre-& Post Monsoon periods for different rivers of Chatra 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 %
Morhar River	75	59	1.852	1.191	-0.661	-55%
Lilajan River	62	59	3.849	4.245	0.396	9%
Mohana-River	80	85	1.304	1.299	-0.005	0%
Garhi River	40	64	0.28	0.47	0.189	40%
Barki River	53	56	0.57	0.62	0.043	7%
Damodar River	24	30	0.53	0.79	0.257	33%
All River	**334**	**353**	**8.391**	**8.611**	**0.220**	**3%**

Thus, in Chatra district, about 0.22 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 Chatra district comes to about 103%.

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

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characteristic of the river. Some of the common methods used for Replenishment study are explained below.

Catchment Yield Calculation:

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

Catchment Yield can be estimated using following formula:
Catchment Yield (m^3) =Catchment area (m^2)* Runoff coefficient (%)*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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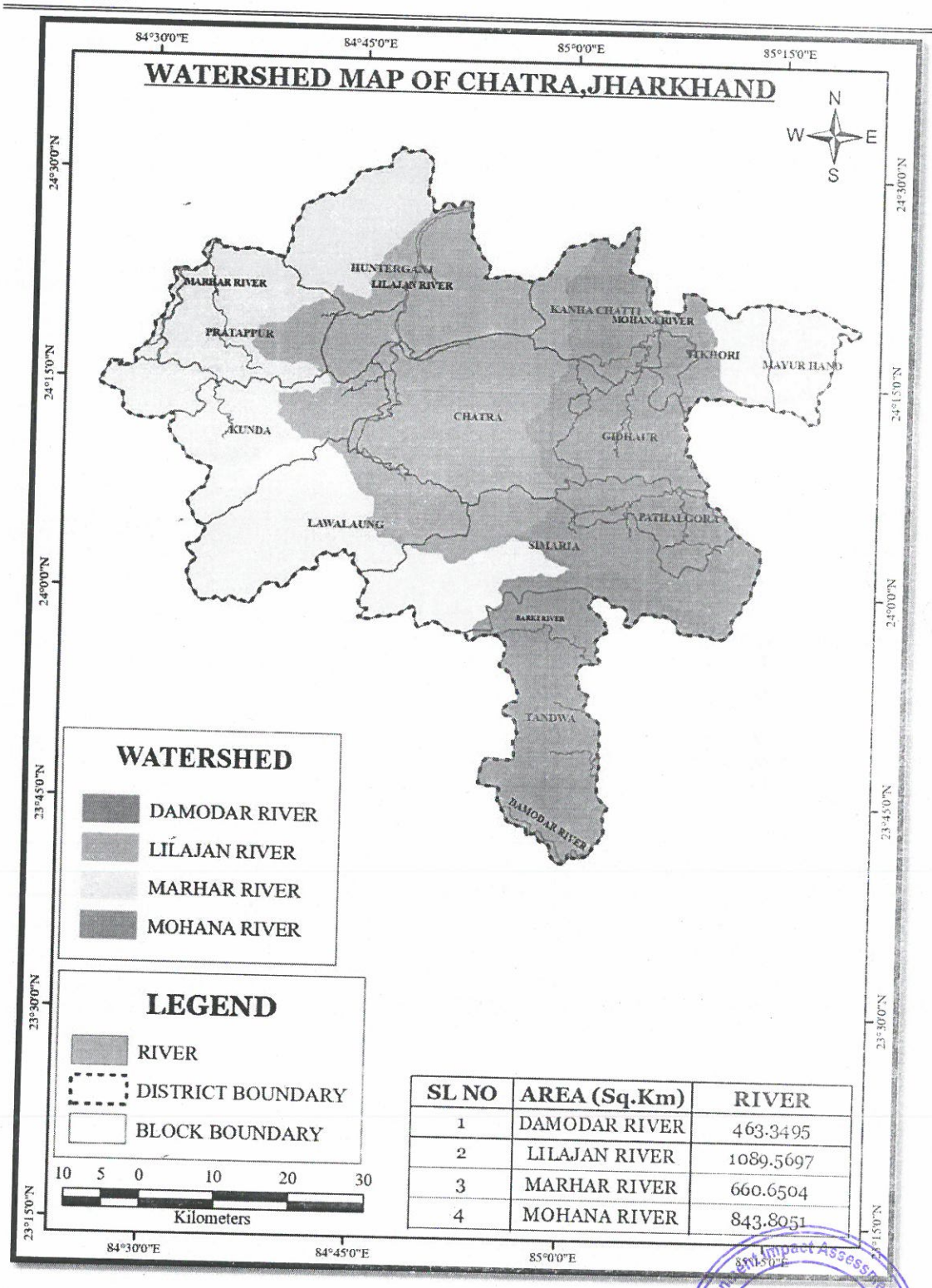

SL NO	AREA (Sq.Km)	RIVER
1	DAMODAR RIVER	463.3495
2	LILAJAN RIVER	1089.5697
3	MARHAR RIVER	660.6504
4	MOHANA RIVER	843.8051

Figure 7-7 Watershed map of Chatra District

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Strange (1892) studied the available rainfall and runoff and obtained yield ratios as functions of indicators representing catchment characteristics. Catchments are

classified as good, average and bad according to the relative magnitudes of yield they give. For example, catchment with good forest cover and having soils of high permeability would be classified as bad, while catchment having soils of low permeability and having little or no vegetal cover is termed good. Based on the study Strange established runoff coefficient table as given below:

Table 7-6 Runoff coefficient of the catchment based on Strange's Table

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

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

As per Weibull's Formula,
Return period/Recurrence interval = (n+1)/m
Where: n number of years on record;
m is the rank of observed occurrences when arranged in descending order.

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a. Peak Flood Discharge Calculation:

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

As per Dicken's formula,

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

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

As per Jarvis formula,

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

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

As per Rational formula,

$$Q = CIA$$

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

b. Bed Load Transport Calculation:

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

Ackers and White Equation:

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

$$Ct = CsGs\,(d50/h)\,(V/U^*)\,n'\,[(Fgr/A1) - 1]^m$$

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The dimensionless particle dgr is calculated by:

dgr= d50 (g(Gs-1)/v2)1/3

The particle mobility factor Fgr is calculated by:

Fgr= (U*n '/(Gs-1)g d50)1/2 * (V/(5.66log(10h/ d50))1-n'

Where,

$A1$ = Critical particle mobility factor
Cs = Concentration coefficient in the sediment transport function
Ct = Total sediment concentration
$d50$ = Median grain size
dgr = Dimensionless particle diameter
Fgr = Particle mobility parameter
g = Acceleration of gravity
Ds, Sg = 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,

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

η' = Manning's coefficient pertaining to grain size on an unrippled bed and Strickler formula i.e. η' = (1/24) x d1/6 where d is the median size (d50) 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 11cumecs, and 0.0225 for lower discharges.

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τc = Critical shear stress required to move the grain in N/m2 and given by equation τc = 0.687da, where da is mean or average size of the sediment in mm. This arithmetic average size is usually found to vary between d50 and d60.

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

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.

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

For run off less than 2 inch:

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

For run off more than 2 inches:

(Q > 2 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 are in sq mile

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

Modified Universal Soil Loss Equation (MUSLE):

Modified universal soil loss equation (MUSLE) for estimation of sediment yield is also used widely. MUSLE is a modification of the Universal Soil Loss Equation (USLE). USLE is an estimate of sheet and rill soil movement down a uniform slope using rain-fall energy as the erosive force acting on the soil (Wischmeier and Smith 1978). Depending on soil characteristics (texture, structure, organic matter, and permeability), some soils erode easily while others are inherently more resistant to the erosive action of rain- fall.

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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 952.5mm 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).

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- Bed load transport has not been computed in the regional aspect of the district, as the values are highly dependent on local factors such as particle mobility factor, roughness coefficient, Shear velocity, Mean flow velocity, Kinematic viscosity etc.

- Sedimentation yield calculated as per Dendy Bolton formula as the equations express the general relationships between sediment yield, runoff, and drainage area.

- Computed sediment yields by Dendy-Bolton formula normally would be low for highly erosive areas and high for well stabilized drainage basins with high plant density because the equations are derived from average values.

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

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

Estimation parameter	Damodar	Lilajan	Marhar	Mohana
Catchment Area (m^2)	463350000	1089570000	660650000	843810000
Annual Rainfall (m)	0.95	0.95	0.95	0.95
Strange Runoff coefficient (%)	27%	27%	27%	27%
Annual Run-off (m)	0.209	0.209	0.209	0.209
Catchment Yield (m^3)	120169823	282579979.5	171339577.5	218842124
Peak Flood Discharge (m^3/sec)	37897723.39	71965210.29	49449263.27	59410710.61
Flow depth d (m)	0.5	0.5	0.3	0.3
Channel width b (m)	150	140	135	150
Mean velocity v (m/s)	0.1	0.03	0.05	0.04
Channel slope S_o (m/m)	0.004	0.003	0.002	0.003
Sediment Yield (Tons/year)	34283.35	71398.17	46562.45	57428.21
Estimated Annual Replenishment (in million m3)	0.64201	1.33704	0.87196	1.07543

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/km^2/yr.) for last 5 years of each river

Year	Damodar	Lilajan	Marhar	Mohana	Annual Rainfall
2017	110.11	97.52	104.89	101.28	**768.4**
2018	153.66	136.09	146.37	141.34	**614.5**
2019	102.96	91.19	98.08	94.71	**799.4**
2020	88.27	78.18	84.08	81.19	**870.5**
2021	73.99	65.53	70.48	68.06	**952.5**

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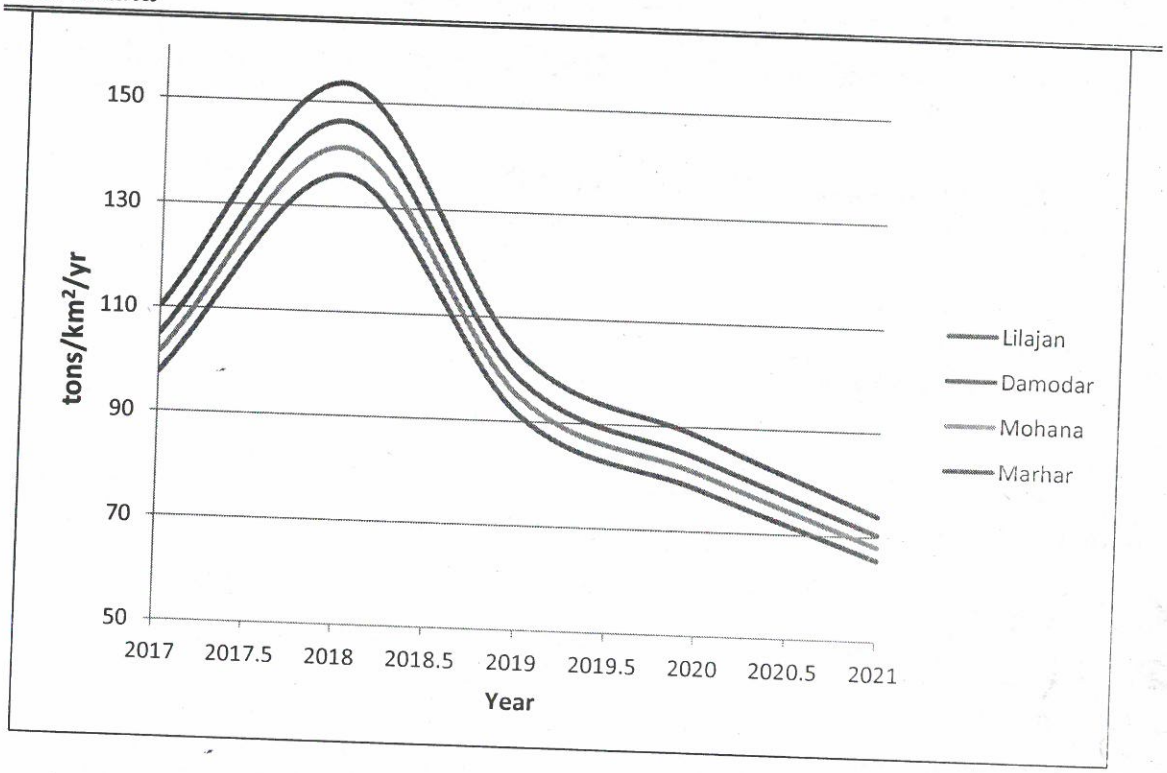

Figure 7-8 Graphical representation of year-wise sedimentation rate

vi) Total potential of minor mineral in the river bed

The major sand producing rivers of the district are Damodar, Lilajan, Garhi, Baki, Mohana and Morhar. Total potential sand resource of the district is 5.64 Mcum. (Source: Table No. 10)

B. Geological studies

i) Lithology of the catchment area

Geologically, Chatra district comprises of Chhotanagpur Granite Gneissic Complex (CGGC) rocks of Archaean-Proterozoic Age and rocks of Gondwana Supergroup.

Two Formations of Damuda Group of Lower Gondwanas are exposed in the district - Barakar Formation and Barren Measures. Barakar Formation is prominently developed in Damodar valley basin comprising Conglomerate, Sandstone, Shale and thick measures of Coal seams showing fining upward sequence, which is succeeded by Barren Measures comprising Iron Stone Shale with or without Carbonaceous matter, Micaceous/Carbonaceous grey Shale.

ii) Tectonics and structural behavior of rocks

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

C. Climate Factors

i) Intensity of rainfall

The average annual rainfall of the district is 801 mm (Between 2017 to 2021). The rainfall during the monsoon season – June to September – constitutes 83% of the annual rainfall; July and August are the rainiest months. The district receives a mean annual rainfall varying from 614 mm to 952 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 ¼th of river width and not less than 7.5 meters. Also, mining is prohibited up to a

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distance of 1 kilometer (1 km) from major bridges and highways on both sides, or five times (5x) of the span (x) of a bridge/public civil structure (including water intake points) on up-stream side and ten times (10x) the span of such bridge on down-stream side, subjected to a minimum of 250 meters on the upstream side and 500 meters on the downstream side.

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

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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	MORHAR	13%	1270.82	57.98	840200.86	1.0	0.8	0.50
2	LILAJAN	23%	1830.44	117.58	2714523.18	1.0	2.7	1.63
3	MOHANA	17%	945.81	60.30	917885.79	1.0	0.9	0.55
4	GARHI	10%	688.00	31.19	245957.64	1.0	0.2	0.15
5	BARKI	18%	776.48	36.47	372325.67	1.0	0.4	0.22
6	DAMODAR	34%	1514.57	55.21	545791.19	1.0	0.5	0.33
Total Mineable volume							5.64	3.38

iv) 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)
			3.38

v) Riverbed Mineral Potential Zones

Table 7-11 Potential Zone of Riverbed Mineral

RIVER NAME	ZONE		COORDINATE		LENGTH (MTS)	WIDTH (MTS)	AREA (SQMTS)
			LATITUDE	LONGITUDE			
MARHAR	MH_ZONE_01	1	24° 24' 37.622" N	84° 34' 33.842" E	2670.175	133.22	144729.6
		2	24° 23' 35.688" N	84° 33' 52.614" E			
	MH_ZONE_02	3	24° 23' 17.859" N	84° 33' 43.803" E	1383.772	38.43	17446.19
		4	24° 22' 38.464" N	84° 34' 5.852" E			
	MH_ZONE_03	5	24° 22' 8.766" N	84° 34' 13.193" E	1284.968	26.37	23316.53
		6	24° 21' 29.109" N	84° 34' 16.103" E			
	MH_ZONE_04	7	24° 21' 3.151" N	84° 34' 14.804" E	501.088	41.18	11154.29
		8	24° 20' 50.650" N	84° 34' 1.735" E			

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RIVER NAME	ZONE		COORDINATE		LENGTH (MTS)	WIDTH (MTS)	AREA (SQMTS)
			LATITUDE	LONGITUDE			
	MH_ZONE_05	9	24° 20' 11.290" N	84° 34' 12.203" E	1128.826	29.52	10900.93
		10	24° 19' 41.360" N	84° 34' 32.334" E			
	MH_ZONE_06	11	24° 19' 39.084" N	84° 34' 49.305" E	355.361	32.76	9635.477
		12	24° 19' 27.690" N	84° 34' 47.467" E			
	MH_ZONE_07	13	24° 18' 52.171" N	84° 35' 7.437" E	142.014	23.67	1915.998
		14	24° 18' 48.044" N	84° 35' 5.888" E			
	MH_ZONE_08	15	24° 18' 30.592" N	84° 35' 0.381" E	126.186	18.58	1870.017
		16	24° 18' 26.411" N	84° 35' 0.892" E			
	MH_ZONE_09	17	24° 22' 23.368" N	84° 31' 42.925" E	3615.023	117.67	184232.9
		18	24° 20' 42.083" N	84° 31' 31.640" E			
	MH_ZONE_10	19	24° 19' 46.404" N	84° 31' 16.954" E	4271.936	149.77	198008.6
		20	24° 17' 49.365" N	84° 30' 25.969" E			
	MH_ZONE_11	21	24° 16' 52.796" N	84° 30' 21.935" E	497.899	100.153	45960.2
		22	24° 16' 37.952" N	84° 30' 15.685" E			
	MH_ZONE_12	23	24° 16' 6.217" N	84° 31' 8.658" E	1178.221	41.43	17288.97
		24	24° 16' 0.680" N	84° 31' 46.029" E			
	MH_ZONE_13	25	24° 15' 36.114" N	84° 32' 5.458" E	1427.305	62.74	66298.9
		26	24° 15' 58.380" N	84° 32' 43.412" E			
	MH_ZONE_14	27	24° 15' 34.670" N	84° 33' 19.472" E	2730.854	51.31	51887.31
		28	24° 14' 58.263" N	84° 34' 34.302" E			
	MH_ZONE_15	29	24° 14' 49.571" N	84° 34' 30.387" E	751.505	118.004	47395.43
		30	24° 14' 27.713" N	84° 34' 37.951" E			
	MH_ZONE_16	31	24° 14' 14.893" N	84° 34' 25.593" E	92.023	14.61	900.7935
		32	24° 14' 12.454" N	84° 34' 23.605" E			
	MH_ZONE_17	33	24° 13' 40.077" N	84° 34' 22.651" E	198.012	27.05	3834.581
		34	24° 13' 33.676" N	84° 34' 21.861" E			
	MH_ZONE_18	35	24° 13' 24.275" N	84° 34' 50.475" E	519.522	17.13	3424.226
		36	24° 13' 17.995" N	84° 35' 3.789" E			
LILAJAN	LJ_ZONE_01	37	24° 27' 59.469" N	84° 52' 21.565" E	1353.871	128.1	192565.7
		38	24° 27' 24.610" N	84° 52' 2.170" E			
	LJ_ZONE_02	39	24° 27' 16.762" N	84° 51' 17.416" E	3999.063	176.158	391941.3
		40	24° 26' 11.352" N	84° 49' 16.923" E			
	LJ_ZONE_03	41	24° 25' 45.662" N	84° 48' 55.145" E	3055.186	280.66	465356.6
		42	24° 24' 8.432" N	84° 48' 44.351" E			
	LJ_ZONE_04	43	24° 23' 23.071" N	84° 49' 0.431" E	1285.489	73.77	45648.63
		44	24° 22' 53.762" N	84° 49' 33.424" E			
	LJ_ZONE_05	45	24° 22' 21.307" N	84° 49' 52.014" E	303.409	68.95	14304.59
		46	24° 22' 14.750" N	84° 50' 0.188" E			
	LJ_ZONE_06	47	24° 23' 30.275" N	84° 48' 44.946" E	2481.84	219.51	261992.2
		48	24° 22' 11.312" N	84° 48' 26.244" E			
	LJ_ZONE_07	49	24° 21' 48.384" N	84° 47' 56.918" E	4005.765	128.01	380697.4
		50	24° 19' 45.686" N	84° 47' 26.067" E			
	LJ_ZONE_08	51	24° 19' 11.595" N	84° 47' 16.858" E	3661.864	173.81	428732.3

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			LATITUDE	LONGITUDE			
		52	24° 17' 28.174" N	84° 47' 5.810" E			
	LJ_ZONE_09	53	24° 17' 7.874" N	84° 46' 56.339" E	2848.116	226.65	273593.5
		54	24° 15' 52.660" N	84° 47' 1.756" E			
	LJ_ZONE_10	55	24° 15' 23.380" N	84° 47' 17.401" E	606.798	87.36	46923.63
		56	24° 15' 4.619" N	84° 47' 14.573" E			
	LJ_ZONE_11	57	24° 12' 9.405" N	84° 46' 6.077" E	413.985	58.4	17622.29
		58	24° 12' 11.056" N	84° 45' 51.515" E			
	LJ_ZONE_12	59	24° 19' 45.993" N	84° 45' 37.603" E	835.06	62.13	18147.27
		60	24° 19' 40.962" N	84° 45' 11.938" E			
	LJ_ZONE_13	61	24° 19' 40.504" N	84° 44' 20.742" E	231.072	36.29	7992.045
		62	24° 19' 42.723" N	84° 44' 12.623" E			
	LJ_ZONE_14	63	24° 19' 41.236" N	84° 42' 39.951" E	207.498	20.55	3942.411
		64	24° 19' 36.101" N	84° 42' 35.223" E			
	LJ_ZONE_15	65	24° 17' 19.761" N	84° 48' 19.621" E	405.102	71.49	19747.21
		66	24° 17' 28.311" N	84° 48' 8.698" E			
	LJ_ZONE_16	67	24° 16' 37.464" N	84° 49' 29.622" E	2369.241	69.38	145316
		68	24° 17' 19.532" N	84° 50' 39.987" E			
MOHANA	MA_ZONE_01	69	24° 19' 30.850" N	85° 6' 6.290" E	2610.517	69.17	118442.6
		70	24° 18' 40.493" N	85° 7' 14.189" E			
	MA_ZONE_02	71	24° 18' 44.124" N	85° 7' 49.145" E	718.748	94.03	39110.12
		72	24° 18' 31.209" N	85° 8' 7.567" E			
	MA_ZONE_03	73	24° 18' 9.305" N	85° 8' 38.956" E	721.036	71.41	40632.63
		74	24° 17' 46.982" N	85° 8' 36.292" E			
	MA_ZONE_04	75	24° 17' 23.960" N	85° 8' 23.060" E	519.684	50.41	28776.43
		76	24° 17' 19.489" N	85° 8' 40.800" E			
	MA_ZONE_05	77	24° 16' 53.536" N	85° 8' 35.047" E	2287.66	123.01	101762.7
		78	24° 16' 1.885" N	85° 7' 36.848" E			
	MA_ZONE_06	79	24° 15' 54.746" N	85° 7' 28.063" E	5622.401	81.09	274515.7
		80	24° 13' 14.024" N	85° 8' 19.734" E			
	MA_ZONE_07	81	24° 7' 39.333" N	85° 9' 33.774" E	1066.11	123.78	59109.14
		82	24° 7' 45.562" N	85° 8' 56.567" E			
	MA_ZONE_08	83	24° 7' 38.343" N	85° 8' 6.692" E	1013.936	49.93	32584.77
		84	24° 7' 21.977" N	85° 7' 40.137" E			
	MA_ZONE_09	85	24° 7' 37.030" N	85° 7' 17.064" E	1198.454	107.87	56715.66
		86	24° 7' 35.572" N	85° 6' 53.252" E			
	MA_ZONE_10	87	24° 7' 28.191" N	85° 6' 42.359" E	228.845	23.32	4431.788
		88	24° 7' 20.851" N	85° 6' 41.303" E			
	MA_ZONE_11	89	24° 7' 13.543" N	85° 6' 12.190" E	261.758	29.31	4285.622
		90	24° 7' 12.427" N	85° 6' 2.974" E			
	MA_ZONE_12	91	24° 7' 13.904" N	85° 5' 9.315" E	473.083	66.39	24655.99
		92	24° 7' 4.389" N	85° 4' 58.513" E			
	MA_ZONE_13	93	24° 6' 19.724" N	85° 3' 19.788" E	271.062	32.54	6685.953
		94	24° 6' 14.136" N	85° 3' 13.845" E			

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RIVER NAME	ZONE		COORDINATE		LENGTH (MTS)	WIDTH (MTS)	AREA (SQMTS)
			LATITUDE	LONGITUDE			
	MA_ZONE_14	95	24° 6' 19.018" N	85° 2' 43.266" E	418.465	18.53	6457.415
		96	24° 6' 8.686" N	85° 2' 34.113" E			
	MA_ZONE_15	97	24° 5' 52.327" N	85° 3' 51.206" E	907.448	35.55	21839.45
		98	24° 5' 30.098" N	85° 4' 4.715" E			
	MA_ZONE_16	99	24° 5' 19.612" N	85° 4' 1.186" E	546.36	54.7	14917.72
		100	24° 5' 2.655" N	85° 4' 6.960" E			
	MA_ZONE_17	101	24° 6' 30.332" N	85° 7' 52.368" E	188.026	90.53	11627.7
		102	24° 6' 24.870" N	85° 7' 55.896" E			
	MA_ZONE_18	103	24° 6' 4.385" N	85° 8' 16.150" E	424.464	33.52	9355.969
		104	24° 5' 57.184" N	85° 8' 22.559" E			
	MA_ZONE_19	105	24° 5' 48.414" N	85° 8' 14.035" E	399.739	47.2	11324.67
		106	24° 5' 36.127" N	85° 8' 18.596" E			
	MA_ZONE_20	107	24° 5' 3.916" N	85° 8' 20.069" E	1233.758	48.44	32021.1
		108	24° 4' 33.834" N	85° 8' 23.276" E			
	MA_ZONE_21	109	24° 4' 23.864" N	85° 8' 29.416" E	167.37	69.05	7912.499
		110	24° 4' 20.300" N	85° 8' 25.273" E			
	MA_ZONE_22	111	24° 4' 20.829" N	85° 8' 9.037" E	251.923	30.39	5055.849
		112	24° 4' 12.715" N	85° 8' 10.469" E			
	MA_ZONE_23	113	24° 3' 51.858" N	85° 7' 33.350" E	222.786	36.83	5664.37
		114	24° 3' 44.876" N	85° 7' 31.537" E			
GARHI	GH_ZONE_01	115	24° 18' 43.640" N	85° 5' 22.073" E	1775.574	63.83	41990.59
		116	24° 18' 10.797" N	85° 4' 41.640" E			
	GH_ZONE_02	117	24° 18' 1.255" N	85° 4' 53.245" E	287.062	27.79	6613.928
		118	24° 17' 57.386" N	85° 5' 1.008" E			
	GH_ZONE_03	119	24° 17' 49.570" N	85° 5' 8.679" E	646.586	20.36	8066.244
		120	24° 17' 50.951" N	85° 5' 15.374" E			
	GH_ZONE_04	121	24° 17' 56.252" N	85° 5' 24.612" E	1684.688	39.72	37502.96
		122	24° 17' 17.962" N	85° 5' 11.080" E			
	GH_ZONE_05	123	24° 17' 15.652" N	85° 5' 4.443" E	536.863	26.4	10423
		124	24° 17' 0.006" N	85° 5' 11.888" E			
	GH_ZONE_06	125	24° 16' 52.525" N	85° 5' 6.717" E	174.023	22.18	2929.953
		126	24° 16' 55.567" N	85° 5' 1.756" E			
	GH_ZONE_07	127	24° 16' 43.854" N	85° 4' 49.554" E	574.831	22.31	14659.4
		128	24° 16' 42.857" N	85° 4' 30.322" E			
	GH_ZONE_08	129	24° 16' 29.768" N	85° 4' 34.333" E	630.946	33.53	16335.35
		130	24° 16' 26.793" N	85° 4' 50.558" E			
	GH_ZONE_09	131	24° 16' 12.005" N	85° 4' 47.579" E	810.614	62.17	15099.11
		132	24° 15' 56.350" N	85° 4' 45.710" E			
	GH_ZONE_10	133	24° 15' 14.787" N	85° 4' 27.847" E	1666.894	31.48	39209.62
		134	24° 14' 30.316" N	85° 4' 16.405" E			
	GH_ZONE_11	135	24° 14' 19.773" N	85° 3' 48.665" E	206.032	35.06	5796.898
		136	24° 14' 12.989" N	85° 3' 48.235" E			
	GH_ZONE_12	137	24° 13' 45.527" N	85° 4' 1.305" E	2198.121	36.25	27297.27

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RIVER NAME	ZONE		COORDINATE		LENGTH (MTS)	WIDTH (MTS)	AREA (SQMTS)
			LATITUDE	LONGITUDE			
		138	24° 12' 50.055" N	85° 3' 56.548" E			
	GH_ZONE_13	139	24° 11' 53.879" N	85° 3' 26.410" E	164.426	20.91	2694.323
		140	24° 11' 50.869" N	85° 3' 21.561" E			
	GH_ZONE_14	141	24° 11' 25.480" N	85° 3' 3.096" E	200.286	24.45	3687.185
		142	24° 11' 19.304" N	85° 3' 0.778" E			
	GH_ZONE_15	143	24° 10' 17.722" N	85° 3' 15.741" E	120.459	31.72	3055.256
		144	24° 10' 13.976" N	85° 3' 17.044" E			
	GH_ZONE_16	145	24° 17' 39.433" N	85° 4' 6.014" E	353.27	20.96	4410.682
		146	24° 17' 28.161" N	85° 4' 3.530" E			
	GH_ZONE_17	147	24° 17' 2.527" N	85° 4' 1.583" E	215.7	25.38	4600.206
		148	24° 16' 58.984" N	85° 3' 56.506" E			
	GH_ZONE_18	149	24° 16' 27.737" N	85° 1' 58.688" E	137.658	16.96	1585.668
		150	24° 16' 29.837" N	85° 1' 54.421" E			
BARKI	BI_ZONE_01	151	23° 57' 24.306" N	84° 56' 54.906" E	275.492	35.92	5879.51
		152	23° 57' 19.540" N	84° 57' 3.204" E			
	BI_ZONE_02	153	23° 57' 23.522" N	84° 57' 19.178" E	535.503	44.82	11398.19
		154	23° 57' 16.586" N	84° 57' 34.475" E			
	BI_ZONE_03	155	23° 57' 18.913" N	84° 57' 41.898" E	258.094	18.92	3084.556
		156	23° 57' 22.472" N	84° 57' 50.104" E			
	BI_ZONE_04	157	23° 56' 54.007" N	84° 59' 26.776" E	1205.253	32.62	16153.19
		158	23° 56' 42.366" N	85° 0' 5.250" E			
	BI_ZONE_05	159	23° 56' 39.272" N	85° 0' 32.955" E	232.301	23.93	5338.422
		160	23° 56' 46.976" N	85° 0' 33.843" E			
	BI_ZONE_06	161	23° 56' 58.679" N	85° 0' 28.569" E	114.66	32.3	2439.858
		162	23° 57' 2.424" N	85° 0' 28.651" E			
	BI_ZONE_07	163	23° 56' 20.230" N	85° 0' 36.320" E	848.234	25.43	17736.13
		164	23° 56' 14.974" N	85° 1' 5.168" E			
	BI_ZONE_08	165	23° 55' 33.520" N	85° 1' 14.512" E	1525.842	41.05	53409.23
		166	23° 55' 3.749" N	85° 1' 47.319" E			
	BI_ZONE_09	167	23° 51' 46.619" N	85° 1' 7.030" E	622.597	37.12	15678.16
		168	23° 51' 48.435" N	85° 0' 44.958" E			
	BI_ZONE_10	169	23° 48' 36.250" N	84° 59' 56.869" E	936.51	15.62	10002.44
		170	23° 48' 39.317" N	85° 0' 27.769" E			
	BI_ZONE_11	171	23° 48' 45.458" N	85° 1' 2.659" E	1116.385	28.04	12977.71
		172	23° 48' 53.738" N	85° 1' 34.310" E			
	BI_ZONE_12	173	23° 48' 32.707" N	85° 2' 0.124" E	289.934	41.78	8637.759
		174	23° 48' 26.128" N	85° 1' 52.522" E			
	BI_ZONE_13	175	23° 48' 14.660" N	85° 1' 49.538" E	278.023	24.71	5305.279
		176	23° 48' 5.636" N	85° 1' 51.707" E			
	BI_ZONE_14	177	23° 48' 10.197" N	85° 2' 4.031" E	2631.931	108.32	204285.2
		178	23° 47' 5.952" N	85° 2' 5.397" E			
DAMODAR	DA_ZONE_01	179	23° 44' 57.198" N	84° 55' 22.159" E	945.323	26.62	24148.1
		180	23° 44' 44.712" N	84° 55' 41.954" E			

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RIVER NAME	ZONE		COORDINATE		LENGTH (MTS)	WIDTH (MTS)	AREA (SQMTS)
			LATITUDE	LONGITUDE			
	DA_ZONE_02	181	23° 44' 34.595" N	84° 56' 13.347" E	666.362	30.82	14132.28
		182	23° 44' 12.944" N	84° 56' 12.657" E			
	DA_ZONE_03	183	23° 44' 8.885" N	84° 56' 13.098" E	1496.022	78.94	67109.26
		184	23° 43' 44.345" N	84° 56' 54.152" E			
	DA_ZONE_04	185	23° 43' 39.648" N	84° 57' 19.988" E	1657.249	59.31	65484.02
		186	23° 42' 58.573" N	84° 57' 39.559" E			
	DA_ZONE_05	187	23° 42' 53.808" N	84° 58' 25.391" E	5213.523	117.52	360809
		188	23° 40' 52.685" N	85° 0' 10.676" E			
	DA_ZONE_06	189	23° 41' 23.683" N	85° 0' 38.868" E	404.831	33.78	8088.438
		190	23° 41' 36.830" N	85° 0' 37.702" E			
	DA_ZONE_07	191	23° 41' 22.294" N	85° 1' 6.483" E	218.709	39.51	6020.116
		192	23° 41' 24.060" N	85° 1' 13.850" 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 ¼th of river width and not be less than 7.5 meters. Also, there is a no mining zone up to a distance of 1 kilometre (1 km) from major bridges and highways on both sides, or five times (5x) of the span (x) of a bridge/public civil structure (including water intake points) on up-stream side and ten times (10x) the span of such bridge on down-stream side, subjected to a minimum of 250 meters on the upstream side and 500 meters on the downstream side.

No mining zone has been marked for an area up to a width of 100 meters from the active edge of embankments. Also, the concave side of the river is marked as no mining zone, as mining is this area will affect the course of river in future and will erode the river bank. A representative map of no mining zone shown on River Damodar of Chatra district is given in Figure 7.9.

Table 7-12 Restricted Zone of Riverbed Mineral

RIVER NAME	ZONE	RESTRICTED AREA (SQ MTS)
MARHAR	MH_ZONE_01	47906.9904
	MH_ZONE_02	4730.729945
	MH_ZONE_03	4742.487375
	MH_ZONE_04	1159.424465
	MH_ZONE_05	1018.217665
	MH_ZONE_06	199.101987
	MH_ZONE_07	41.920208
	MH_ZONE_08	24.134279
	MH_ZONE_09	43677.49027

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RIVER NAME	ZONE	RESTRICTED AREA (SQ MTS)
	MH_ZONE_10	50026.63008
	MH_ZONE_11	5443.25668
	MH_ZONE_12	5178.083328
	MH_ZONE_13	5284.318597
	MH_ZONE_14	14584.87578
	MH_ZONE_15	6605.363513
	MH_ZONE_16	307.242807
	MH_ZONE_17	551.105417
	MH_ZONE_18	720.216714
LILAJAN	LJ_ZONE_01	42571.22487
	LJ_ZONE_02	63027.28811
	LJ_ZONE_03	138796.7651
	LJ_ZONE_04	999.211276
	LJ_ZONE_05	28.844768
	LJ_ZONE_06	76539.85166
	LJ_ZONE_07	122621.5286
	LJ_ZONE_08	81965.37907
	LJ_ZONE_09	18371.17901
	LJ_ZONE_10	0
	LJ_ZONE_11	930.455625
	LJ_ZONE_12	6317.434658
	LJ_ZONE_13	656.274415
	LJ_ZONE_14	1194.499065
	LJ_ZONE_15	4100.388013
	LJ_ZONE_16	7918.184226
MOHANA	MA_ZONE_01	30928.81089
	MA_ZONE_02	2561.465366
	MA_ZONE_03	9063.638317
	MA_ZONE_04	3792.148533
	MA_ZONE_05	13052.33862
	MA_ZONE_06	50336.81814
	MA_ZONE_07	6584.526942
	MA_ZONE_08	16291.87937
	MA_ZONE_09	10910.6235
	MA_ZONE_10	1954.049078
	MA_ZONE_11	1855.449297
	MA_ZONE_12	821.368564
	MA_ZONE_13	0
	MA_ZONE_14	27.35647
	MA_ZONE_15	254.87353
	MA_ZONE_16	289.866655
	MA_ZONE_17	1198.008146
	MA_ZONE_18	46.473346
	MA_ZONE_19	76.020857

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RIVER NAME	ZONE	RESTRICTED AREA (SQ MTS)
	MA_ZONE_20	3654.170935
	MA_ZONE_21	222.406077
	MA_ZONE_22	18.908523
	MA_ZONE_23	284.139109
GARHI	GH_ZONE_01	4971.747331
	GH_ZONE_02	1802.243974
	GH_ZONE_03	1586.077631
	GH_ZONE_04	6475.105899
	GH_ZONE_05	456.010062
	GH_ZONE_06	707.629321
	GH_ZONE_07	2039.856525
	GH_ZONE_08	1447.796346
	GH_ZONE_09	4781.998994
	GH_ZONE_10	3912.904421
	GH_ZONE_11	0
	GH_ZONE_12	0
	GH_ZONE_13	0
	GH_ZONE_14	166.15585
	GH_ZONE_15	20.596122
	GH_ZONE_16	0
	GH_ZONE_17	900.043993
	GH_ZONE_18	454.557929
BARKI	BI_ZONE_01	40.391062
	BI_ZONE_02	615.656867
	BI_ZONE_03	39.60969
	BI_ZONE_04	2372.288591
	BI_ZONE_05	0
	BI_ZONE_06	0
	BI_ZONE_07	5980.829552
	BI_ZONE_08	10394.87529
	BI_ZONE_09	4342.587301
	BI_ZONE_10	593.392628
	BI_ZONE_11	3452.494162
	BI_ZONE_12	333.756258
	BI_ZONE_13	1480.694589
	BI_ZONE_14	42580.00359
DAMODAR	DA_ZONE_01	10495.86364
	DA_ZONE_02	4187.579561
	DA_ZONE_03	12749.68359
	DA_ZONE_04	15552.27986
	DA_ZONE_05	79676.43181
	DA_ZONE_06	3410.854043
	DA_ZONE_07	1602.949242

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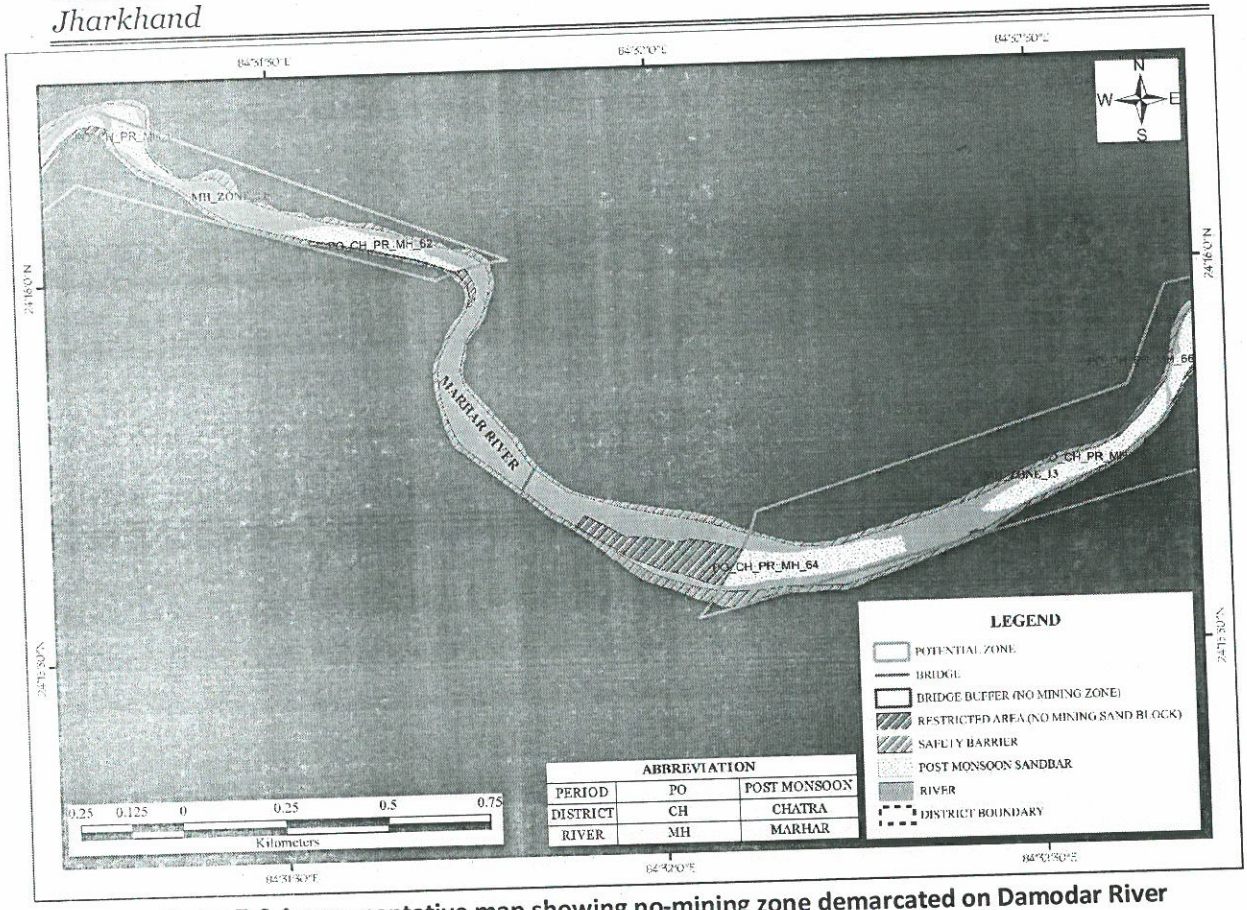

Figure 7-9 A representative map showing no-mining zone demarcated on Damodar River

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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 existed/proposed mining leases of the districts

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Table 8-1 Details of Existed Sand mining leases of the districts (source previous DSR)

SL.NO	River Name	Ghat Name	Lease Details	Area in 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 /Annum considering digging depth max As 3 meters	Mineral to be mined (Sand/ Bajri /RBM etc.)	Existing / Proposed	Co-ordinate
1	Barki Nadi	Barki Nadi Balu ghat	Village and Gram Panchayat- Tandwa, Block & P.s- Tandwa, Distict- Chatra, State- Jharkhand	2.42	-	-	NO	93412	Sand	Existed	1. 23°51'29.5"N85°1'59.5"E 2. 23°51'32.5"N 85°2'2.1"E 3. 23°51'24.0"N 85°2'8.1"E 4. 23°51'24.9"N 85°2'9.3"E 5. 24°16'37.0"N84°49'44.3"E 6. 24°16'38.2"N84°49'43.8"E 7. 24°16'52.5"N84°50'10.2"E 8. 24°16'54.6"N84°50'7.3"E 9. 23°57'34.7"N86°36'14.0"E 10. 23°57'36.8"N86°36'20.0"E 11. 23°57'6.5"N86°36'57.0"E 12. 23°57'10.0"N86°36'59.5"E
2	Lilajan Nadi	Bhuiyandih Sand Ghat	Village Bhuiyandih of Salaiya Gram Panchayat , Block & P.s – Hanterganj, District- Chatra Jharkhand	8.26	-	-	NO	318836	Sand	Existing	1. 24°16'37.0"N 84°49'44.3"E 2. 24°16'38.2"N84°49'43.1"E 3. 24°16'52.5"N84°50'10.2"E 4. 24°16'54.6"N84°50'7.3"E

3	Mohana River	Dhuna Balu Ghat	Village – Katua Nadi , Anchal- Itkhori, Panchayat- Dhuna District- Chatra, State- Jharkhand	5.96	-	-	NO	248391	Sand	Existing	1. 24°18'5.84"N85°8'39.80"E 2. 24°18'6.10"N85°8'41.51"E 3. 24°17'45.34"N85°8'25.82"E 4. 24°17'43.79"N85°8'26.49"E
4	Lilajan Nadi	Dumarikala Sand Ghat	Village – Dumarikala of Dumarikala , Gram Panchayat, Block& P.S- Hanterganj, District- Chatra, State- Jharkhand	8.5	-	-	NO	328100	Sand	Existing	1. 24°24'31.0"N84°48'44.2"E 2. 24°24'31.5"N84°48'47.7"E 3. 24°24'5.3"N84°48'48.5"E 4. 24°24'5.9"N84°48'52.4"E
5	Lilajan Nadi	Dumrikhurd Sand Mining	At Villag- Dumrikhurd P.S- Hunterganj District- Chatra, State- Jharkhand	9.41	-	-	NO	336155.82	Sand	Existing	1. 24°25'01.6"N84°48'34.7"E 2. 24°25'01.9"N84°48'41.0"E 3. 24°24'49.6"N84°48'33.7"E 4. 24°24'48.7"N84°48'38.8"E 5. 24°24'40.3"N84°48'35.5"E 6. 24°24'41.4"N84°48'39.6"E

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6	Gerua Nadi	Gadilong Sand Ghat	Village-Gadilong, of Gadilong Gram Panchayat, Block & P.S-Tandwa District-Chatra, State-Jharkhand	6.15	-	-	NO	115800	Sand	Existing	1. 23°51'33.8"N85°01'43.5"E 2. 23°51'36.4"N85°01'42.9"E 3. 23°51'33.7"N85°01'53.5"E 4. 23°51'36.5"N84°01'54.1"E 5. 23°51'33.3"N85°1'36.9"E 6. 23°51'31.9"N85°1'35.9"E 7. 23°51'34.9"N85°2'58.8"E 8. 23°51'30.4"N85°2'58.8"E
7	Lilajan Nadi	Garh Kedli Sand Ghat	Village-Garh kedli sand Ghat of Kedli Gram Panchayat, Block & P.S-Hunterganj District-Chatra, State-Jharkhand	2.8	-	-	NO	108080	Sand	Existing	1. 24°25'44.0"N84°49'9.7"E 2. 24°25'45.8"N84°49'4.0"E 3. 24°25'49.0"N84°49'13.0"E 4. 24°25'50.8"N84°49'8.0"E 5. 23°57'34.7"N86°36'14.0"E 6. 23°57'36.8"N86°36'20.0"E 7. 23°57'6.5"N86°36'57.0"E 8. 23°57'10.0"N86°36'59.5"E
8	Lilajan Nadi	Jorikala Sand Ghat	Village-Jorikala of Jori Gram Panchayat, Block & P.S-Hunterganj District-Chatra, State-Jharkhand	14.56	-	-	NO	137416	Sand	Existing	1. 24°18'43.0"N84°47'33.7"E 2. 24°18'42.2"N84°47'27.0"E 3. 24°19'8.2"N84°47'29.3"E 4. 24°19'8.3"N84°47'23.7"E 5. 24°18'43.0"N84°47'33.7"E 6. 24°18'42.2"N84°47'47.27"E 7. 24°19'8.2"N84°47'29.3"E 8. 24°19'8.3"N84°47'23.7"E

9	Lilajan Nadi	Jorikhurd Sand Ghat	Village-Jorikhurd of Salaiya Gram Panchayat, Block & P.S-Hunterganj District-Chatra, State-Jharkhand	7.28	-	-	NO	281008	Sand	Existing	1. 24°18'3.2"N84°47'45.8"E 2. 24°18'4.9"N84°47'41.0"E 3. 24°18'25.0"N84°47'37.0"E 4. 24°18'24.3"N84°47'33.5"E
10	Lilajan Nadi	Boda and Ghanghri Balu Ghat	Village-Boda & Ghanghari, Anchal - Hunterganj District-Chatra, State-Jharkhand	7.28	-	-	NO	420878.96	Sand	Existing	1. 24°21'19.63"N84°48'5.14"E 2. 24°21'20.12"N84°47'59.88"E 3. 24°21'5.95"N84°48'2.25"E 4. 24°21'6.23"N84°47'57.94"E 5. 24°22'37.04"N84°48'34.12"E 6. 24°22'36.92"N84°48'37.16"E 7. 24°22'22.45"N84°48'30.11"E 8. 24°22'22.0"N84°48'33.24"E
11	URSU River	Kamudang kalan Balu Ghat	Village-Kamudang kalan, Tehsil-Tandwa, Distict-Chatra, State-Jharkhand	2.55	-	-	NO	112447.59	Sand	Existing	1. 23°52'54.05"N 85°01'22.75"E 2. 23°52'53.05"N 85°01'24.05"E 3. 23°52'38.15"N 85°01'23.10"E 4. 23°52'37.75"N 85°01'22.59"E

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12	Lilajan Nadi	Khutikewal khurd Sand Ghat	Village-Khutikewal khurd, Thana-Hanterganj, Distict-Chatra, State-Jharkhand	4.04	-	-	NO	152856	Sand	Existing	1. 24°25'46.06"N 84°48'48.00"E 2. 24°25'46.01"N 84°48'48.6"E 3. 24°25'42.05"N 84°48'46.3"E 4. 24°25'42.4"N 84°48'45.3"E
13	Damodar River	Kichto Balu Ghat	Village-Kichto, Anchal-Tandwa, Panchyat-Kichto, Distict-Chatra, State-Jharkhand	2.024	-	-	NO	115249.95	Sand	Existing	1. 23°43'06.38 "N to 23°43'45.92 "N 2. 85°03'28.63"E to 85°05'53.64"E
14	Garhi River	Laranga Sand Ghat	Village-Laranga, Thana-Tandwa, Distict-Chatra, State-Jharkhand	0.808	-	-	NO	31839.21	Sand	Existing	1. 23°48'18.73"N 85°02'13.51"E 2. 23°48'17.32"N 85°02'15.37"E 3. 23°48'14.56"N 85°02'12.42"E 4. 23°48'15.61"N 85°02'09.37"E

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15	Mohana River	Mohane Nadi Balu Ghat	Village-Mohana Nadi, Anchal-Itkhori, Panchyat-Mohane Nadi, Distict-Chatra, State-Jharkhand	8.1	-	-	NO	468990	Sand	Existing	1. 24°17'39.03"N 85°08'03.84"E 2. 24°17'39.03"N 85°08'07.02"E 3. 24°17'18.90"N 85°08'46.74"E 4. 24°17'16.99"N 85°08'45.02"E
16	Lilajan Nadi	Nagar Sand Ghat	Village-Nagar, Thana-Hanterganj, Distict-Chatra, State-Jharkhand	4.04	-	-	NO	136007.1	Sand	Existing	1. 24°26'50.85"N 84°49'58.19"E 2. 24°26'49.99"N 84°49'59.84"E 3. 24°26'46.53"N 84°49'58.75"E 4. 24°26'46.98"N 84°49'56.66"E
17	mohani River	Nagwa Balu Ghat	Village-Nagwa of Tonatand Gram Panchayat, Block & P.s-Itkhori, Distict-Chatra, State-Jharkhand	2.3	-	-	NO	88780	Sand	Existing	1. 24°16'45.07"N 85°08'25.00"E 2. 24°16'46.08"N 85°08'24.1"E 3. 24°16'54.05"N 85°08'40.3"E 4. 24°16'55.5"N 85°08'39.3"E

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18	mohani River	Nagwa Balu Ghat	Village-Tonatand of Tonatand Gram Panchayat, Block & P.s-Itkhori, Distict-Chatra, State-Jharkhand	10.926	-	-	NO	421744	Sand	Existing	1. 24°15'35.0"N 85°07'37.8"E 2. 24°15'34.5"N 85°07'36.0"E 3. 24°16'4.8"N 85°07'46.4"E 4. 24°16'8.0"N 85°07'43.7"E
19	Lilajan Nadi	Pindrakalan Sand Ghat	Village-Pindrakalan, Thana-Hanterganj, Distict-Chatra, State-Jharkhand	2.83	-	-	NO	165067.11	Sand	Existing	1. 24°27'29.3"N 84°51'44.8"E 2. 24°27'25.4"N 84°51'46.6"E 3. 24°27'22.5"N 84°51'39.5"E 4. 24°27'26.3"N 84°51'37.7"E
20	Lilajan Nadi	Pinri Sand Ghat	Village-Pinri, Thana-Hanterganj, Distict-Chatra, State-Jharkhand	2.02			NO	74517.3	Sand	Existing	1. 24°27' 05.4"N 84°50'21.2"E 2. 24°27' 01.3"N 84°50'14.0"E 3. 24°27' 05.3"N 84°50'11.9"E 4. 24°27' 08.9"N 84°50'19.2"E
21	Khadhiya Nadi	Shisai Sand Ghat	Village-Shisai of Kabra Gram Panchayat, Block & P.s-Tandwa, Distict-Chatra, State-Jharkhand	1.42	-	-	NO	54812	Sand	Existing	1. 23°56' 3.4"N 85°1'28.0"E 2. 23°55' 55.3"N 85°1'23.2"E 3. 23°55' 56.2"N 85°1'22.0"E 4. 23°56' 3.2"N 85°1'26.5"E

22	Lilajan Nadi	Sugi Sand Ghat	Village-Sugi, Thana-Huntarganj, Distict-Chatra, State-Jharkhand	2.42	-	-	NO	86768.94	Sand	Existing	1. 24°27' 45.9"N 84°52'26.2"E 2. 24°27' 37.4"N 84°52'25.3"E 3. 24°27' 38.3"N 84°52'21.6"E 4. 24°27' 46.6"N 84°52'23.2"E
23	Rasari/Garhi River	Suraiya (Chora) Balu Ghat	Village-Suraiya (Chora) Anchal-Tandwa, Panchayat-Bahera, Distict-Chatra, State-Jharkhand	4.95	-	-	NO	709263.42	Sand	Existing	1. 23°47' 33.44"N 85°01'56.21"E 2. 23°47' 33.13"N 85°01'59.23"E 3. 23°47' 5.65"N 85°01'59.39"E 4. 23°47' 3.39"N 85°01'59.32"E 5. 23°47' 8.98"N 85°02'7.75"E 6. 23°47' 6.85"N 85°02'8.10"E 7. 23°47' 17.39"N 85°2'22.18"E 8. 23°47' 16.22"N 85°2'23.42"E
24	Kandar nadi	Vanasingh Sand Ghat	Village-Vanasingh of Jori Gram Panchayat, Block & P.s-Hanterganj, Distict-Chatra, State-Jharkhand	3.56	-	-	NO	137416	Sand	Existing	1. 24°19' 50.2"N 84°47'40.6"E 2. 24°19' 52.6"N 84°47'39.0"E 3. 24°19' 56.7"N 84°47'54.0"E 4. 24°19' 59.0"N 84°47'52.7"E 5. 23°56' 3.2"N 85°1'26.5"E 6. 23°56' 3.4"N 85°1'28.0"E 7. 23°55' 55.3"N 85°1'23.2"E 8. 23°55' 56.2"N 84°1'22.0"E

(Source: Old DSR)

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Table 3-2 Details of Existing Sand mining leases of the districts

Sl No.	Thana	Name of Company	River	Balughat Site details	CTO Capacity	Co-ordinate	
1	2	3	4	5			
1	Hunter ganj	M/s Jharkhand State Mineral Development Corporation Ltd, Ranchi.	Lilajan	Mauza- Bauki Khata No. 13 Plot No. 01 Area 9.25 Acre	13580.88 TPM	24°24'36.02" 24°24'36.35" 24°24'38.29" 24°24'41.13" 24°24'43.18" 24°24'44.56" 24°24'42.19" 24°24'40.15" 24°24'38.22"	84°48'46.52" 84°48'41.19" 84°48'40.93" 84°48'40.48 84°48'40.34" 84°48'46.12" 84°48'46.19" 84°48'46.16" 84°48'46.35"
2	Hunter ganj	M/s Jharkhand State Mineral Development Corporation Ltd, Ranchi.	Lilajan	Mauza- Garhkedli (Nawadih) Khata No. 25 & 52 Plot No. 01, 275 Area 10.50 Acre	19987.77 MT/ Month	24°26'9.00" 24°26'10.92" 24°26'12.42" 24°26'13.97" 24°26'15.39" 24°26'17.28" 24°26'18.75" 24°26'17.52" 24°26'15.83" 24°26'14.41" 24°26'12.60" 24°26'11.12" 24°26'10.16"	84°49'20.44" 84°49'17.87" 84°49'15.86" 84°49'13.76" 84°49'11.87" 84°49'13.74" 84°49'15.03" 84°49'16.95" 84°49'19.67" 84°49'21.90" 84°49'24.73" 84°49'23.12" 84°49'21.82"
3	Hunter ganj	M/s Jharkhand State Mineral Development Corporation	Lilajan	Mauza- Lohsinghnakhurd Khata No. 01 Plot No. 01 Area 10.22 Acre	350.33 Cum/Day	24°21'7.25" 24°21'4.07" 24°21'2.23" 24°20'59.89" 24°20'57.93"	84°48'3.79" 84°48'2.09" 84°48'1.12" 84°47'59.05" 84°47'57.55"

		Ltd, Ranchi.				24°20'55.03" 24°20'56.23" 24°20'58.45" 24°21'1.18" 24°21'4.82" 24°21'8.37"	84°47'55.67" 84°47'53.04" 84°47'54.46" 84°47'56.26" 84°47'58.46" 84°48'0.03"
4	Pratabpur	M/s Jharkhand State Mineral Development Corporation Ltd, Ranchi.	Morhar	Mauza-Ghorighat Khata No. --- Plot No. 03 Area 8.00 Acres	14346.8 TPM	24°22'41.49" 24°22'40.99" 24°22'40.53" 24°22'39.56" 24°22'37.88" 24°22'35.39" 24°22'36.97" 24°22'37.82" 24°22'38.18" 24°22'38.61"	84°31'54.36" 84°31'57.24" 84°31'59.59" 84°32'3.68" 84°32'7.83" 84°32'6.43" 84°32'2.40" 84°31'59.53" 84°31'56.87" 84°31'54.19"



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Table 8-3 List proposed sand ghat in the district

Sl. No	Potential Sandbar	Lease Details	Area_Ha.	Village	Thana No.	Khata No.	Khasra No.	Block	Total Excavation In Tonnes	Total Excavation In Tonnes (Considering 60% As Per EMGSM, 2020
1	PO_CH_GD_GH_28	Garhi 32	0.9	Manjhgawan	12	64	986	GIDHOUR	13950	8370
2	PO_CH_HG_LJ_1A	Lilajan 01 Vill-Uraili, Bahera, Block-Hunterganj	24.7	Uraili	91	1	76	Hunterganj	390260	234156
				Bahera	93	98	11,133	Hunterganj		
3	PO_CH_HG_LJ_01	Lilajan 02 Vill-Suggi, Pandarokalan, Block-Hunterganj	1.46	Suggi	101	74	566	Hunterganj	90376	54225.6
			4.26	Pandarokalan	103	1	1	Hunterganj		
4	PO_CH_HG_LJ_02	Lilajan 03 Vill-Garkedali,Block-Hunterganj	9.56	Garkedali	87	25	1	Hunterganj	151048	90628.8
5	PO_CH_HG_LJ_03	Lilajan 04 Vill-Nawadih, Block-Hunterganj	4.93	Nawadih	43	52	275	Hunterganj	77894	46736.4
6	PO_CH_HG_LJ_04	Lilajan 05 Vill-Kedalikalan, Patwa, Banki,	46.54	Kedalikalan	85	127	1, 400, 837	Hunterganj	735332	441199.2
				Patwa	77	1	268, 269,	Hunterganj		

		Kobani,Block-Hunterganj					301, 302			
				Banki	78	13	1	Hunterganj		
				Kobani	80	151	1	Hunterganj		
7	PO_CH_HG_LJ_05	Lilajan 06 Vill-Sahi,Block-Hunterganj	0.37	Sahi	125	71	368	Hunterganj	5846	3507.6
8	PO_CH_HG_LJ_06	Lilajan 07 Vill-Sahi, Block-Hunterganj	1.02	Sahi	125	71	368	Hunterganj	16116	9669.6
9	PO_CH_HG_LJ_07	Lilajan 08 Vill-Sahi, Block-Hunterganj	0.53	Sahi	125	71	368	Hunterganj	8374	5024.4
10	PO_CH_HG_LJ_08	Lilajan 09 Vill-Sahi, Block-Hunterganj	0.28	Sahi	125	71	368	Hunterganj	4424	2654.4
11	PO_CH_HG_LJ_10	Lilajan 10 Vill-Sahi, Block-Hunterganj	1.51	Sahi	125	71	369	Hunterganj	23858	14314.8
12	PO_CH_HG_LJ_13	Lilajan 12 Vill-Sahi, Block-Hunterganj	6.66	Sahi	139	71	1	Hunterganj	105228	63136.8
13	PO_CH_HG_LJ_14	Lilajan 13 Vill-Sahi, Block-Hunterganj	10.74	Sahi	125	71	1	Hunterganj	169692	101815.2
14	PO_CH_HG_LJ_15	Lilajan 14 Vill-Sahi, Block-	1.9	Sahi	125	71	1	Hunterganj	30020	18012

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		Hunterganj								
15	PO_CH_HG_LJ_30	Lilajan 26 Vill- Lohsinghana Kalan, Block- Hunterganj	3.46	Lohsinghana Kalan	144	76	244	Hunterganj	54668	32800.8
16	PO_CH_PR_MH_08	Morhar 06 Vill- Bharhi, Block- Pratappur	0.53	Bharhi	46	96	358	Pratappur	8215	4929
17	PO_CH_TD_DA_19	Damodar 23 Vill- Kutki, Block- Tandwa	3.44	Kutki	95	44	727	Tandwa	53664	32198.4
18	PO_CH_TD_DA_21	Damodar 25 Vill- Kutki, Block- Tandwa	3.2	Kutki	95	44	727	Tandwa	49920	29952

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

Details of production of last years are furnished below.

Table 8-4 Detail of production of sand and other minerals during last years

Sl. No.	Year	Total Production in(cubic feet)
1	2018-2019	20080093
2	2019-2020	516350
3	2020-2021	00
4	2021-2022	4141300
		24737743

(Source: District Mining Office, Chatra)

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

Revenue generation of last years is furnished below.

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

Sl. No.	Year	Royalty (In Rs.)
1	2018-2019	1529000
2	2019-2020	426000
3	2020-2021	6581315
4	2021-2022	6188360
		14724675

(Source: District Mining Office, Chatra)

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10 Transport (Railway, road):

Chatra is located in the North part of the state of Jharkhand. As far as its border is concerned it is surrounded by Gaya district (Bihar) in the North, Hazaribag in the east, Palamu in west, Latehar in South-West and Ranchi District in the South.

The district is well served by a network of good roads and has been called the motorists paradise. The chief roads emanating from Chatra town are Chatra: -

Chatra – Hunterganj – Dobhi
Chatra – Itkhori – Chauparan
Chatra – Bagra – Balumath – Chandwa – Kudu – Ranchi
Chatra – Simaria -Hazaribagh
Chatra – Tandwa -Piparwar
Chatra – Itkhori – Hazaribagh

The nearest railway route is, Gaya, Koderma, Ranchi.

A transportation map of Chatra district is furnished as Figure 10.1

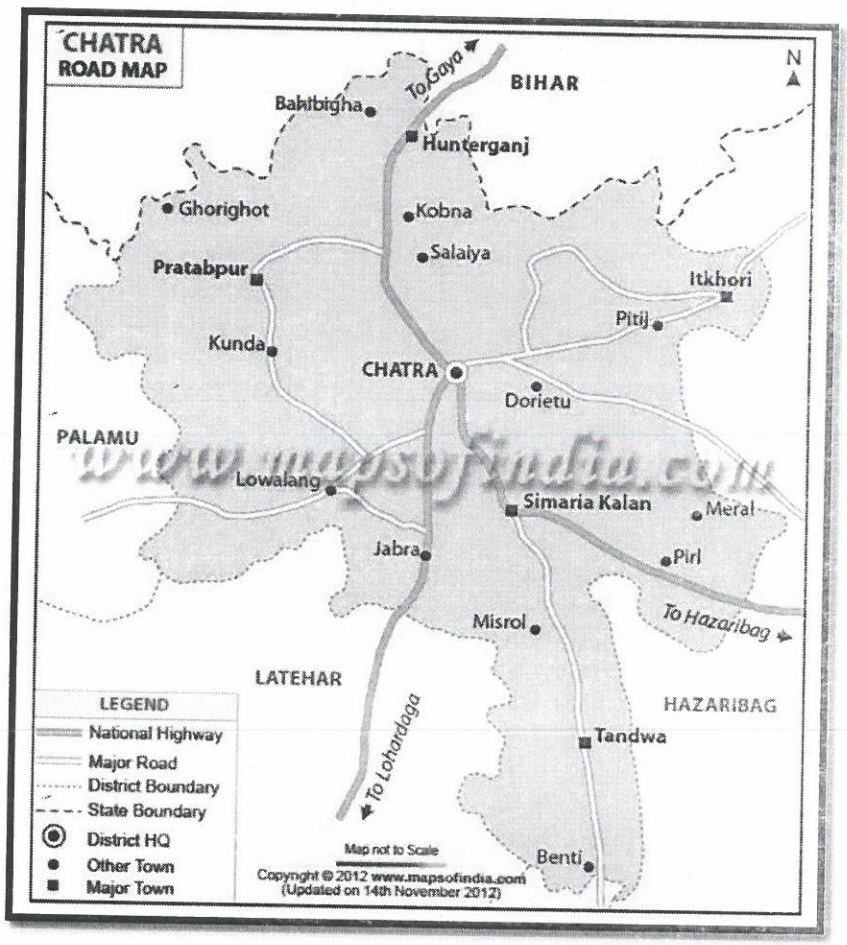

Figure 10-1 Road map of Chatra District

(Source: https://www.mapsofindia.com/maps/jharkhand/roads/Chatra.htm)

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11 Environmental Sensitivity

The Chatra area represents a unique geo- environmental perception. As human population expands, forests are being depleted for the extension of agricultural lands, introduction of new settlements, roadways etc. The growing changes is coming in the wake of urbanization and industrialization leave deep impression on the hill ecosystem; disrupting normal functioning.
Due to unprecedented growth of population during the last few, nature has started reacting sharply to the accumulated human guilt. Soil erosion and its conservation play an important role. Because of the presence of very thin soil cover plays an important role in the socio-economic development.
The adverse effect of this unscientific mining is realized in the form of landslide, removal of soil cover, siltation of river beds leading to frequent floods, endangering the lives and properties of local inhabitants.

11.1 Sand mining Impact

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

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

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

In-stream mining directly alters the channel geometry and bed elevation. By removing sediment from the channel, in-stream material extraction disrupts the preexisting balance between sediment supply and transporting capacity, typically inducing incision upstream and downstream of the extraction site. The resultant incision alters the frequency of floodplain inundation along the river courses, lowers valley floor water tables and frequently leads to destruction of bridges and channelization structures.
Sand Mining in beaches disturbs the ecosystem of different fauna of the beaches. The sand mining from natural barriers, made up of sand, causes flooding of the natural habitat.
The sand mining activity destroys the aesthetic beauty of beaches and river bank and makes the ecosystem unstable. If there are popular tourist destination, tourism potential of such areas will lose.

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

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11.2 Remedial measure

11.2.1 Sustainable Mining Practices:

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

11.2.2 Monitoring the Mining of Mineral and its Transportation:

- For each mining lease site the access should be controlled in a way that vehicles carrying mineral from that area are tracked and accounted for.
- There should be regular monitoring of the mining activities in the State to ensure effective compliance of stipulated EC conditions and of the provisions under the Minor Mineral Concessions Rules framed by the State Government.

11.2.3 Noise Management:

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

11.2.4 Air Pollution and Dust Management:

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

11.2.5 Bio-Diversity Protection:

- Restoration of flora affected by mining should be done immediately. Five times the number of trees destroyed by mining to be planted preferably of indigenous species. Each EC holder shall have to undertake plantation of trees over at least 20% of the total area of lease in the same plot or plots utilised for such working.
- No mining lease shall be granted in the forest area without forest clearance in accordance with the provisions of the Forest Conservation Act, 1980 and the rules made there under.
- Protection of natural home of any wild animal shall have to be ensured.

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- No felling of tree near quarry is allowed. For mining lease within 10km of the National Park / Sanctuary or in Eco-Sensitive Zone of the Protected Area, recommendation of Standing Committee of National Board of Wild Life (NBWL) have to be obtained as per the Hon'ble Supreme Court order in I.A. No. 460 of 2004.
- Spring sources should not be affected due to mining activities. Necessary protection measures are to be incorporated.

11.2.6 Management of Instability and Erosion:

- Removal, stacking and utilization of top soil 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.

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- 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;

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.



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 made aware of the location.
- Mining will be done strictly as per the approved mining plan.

12.3 Disaster management plan

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



13 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)



Minutes of the 99th meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand held on 7th,08th,09th, 10th and 11th December, 2022.

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.	This is the Final DSR after approval by Sub Divisional Committee, Deputy Commissioner and the comments of the publics are also incorporated in the 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. The DSR has been signed by all the members of Sub divisional Committee and Consultant involved in the preparation of 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 then the potential areas are identified and mentioned in the DSR. Kindly refer to table No. 7.4 which shows List of complete potential sand lease area as per EMGSM guideline 2020.
4.	The field survey of pre-monsoon period is to be included in final DSR.	The Pre-monsoon data 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	The demand and supply gap of the sand in the district is reflected in chapter 2 point no. 2.3 of

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<table>
<tr><td></td><td>be considered to justify the number & area of the Sand Ghat to be included in the final DSR.</td><td>DSR.</td></tr>
<tr><td>7.</td><td>The sand Ghats / leases have not to be proposed on the confluence / meanders / concavieties / active channels of the river.</td><td>The confluence / meanders / concavities / active channels of the river are not proposed as these locations are environmentally sensitive.</td></tr>
<tr><td>8.</td><td>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.</td><td>The Khata & Khasra (class / nature of land including "Jungle Jhari") of the lease area has been certified. Copy of CO Report is attached as annexure F.</td></tr>
<tr><td>9.</td><td>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.</td><td>DFO Report, attached as annexure F.</td></tr>
<tr><td>10.</td><td>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.</td><td>Kindly refer to annexure J</td></tr>
<tr><td>11.</td><td>The proposed leases / ghats should meet all the siting criteria of State Pollution Control Board / SEIAA.</td><td>As per the siting criteria of JSPCB notification no. B-21, Ranchi dated 16/08/13 and also, as per 67th-MOM-of-SEIAA Jharkhand following sitting criteria has been complied.
<table>
<tr><td>Minimum Distance from</td><td>Distance (in meter)</td></tr>
<tr><td>NH</td><td>100</td></tr>
<tr><td>SH</td><td>100</td></tr>
<tr><td>Distance metal road</td><td>50</td></tr>
<tr><td>Railway line</td><td>100</td></tr>
<tr><td>River</td><td>100</td></tr>
</table>
</td></tr>
</table>

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		<table><tr><td>Any other river</td><td>100</td></tr><tr><td>Habitation</td><td>200</td></tr><tr><td>Forest /Forest Land</td><td>400*</td></tr></table> *As per 67th-MOM-of-SEIAA, Jharkhand minimum distance required from forest is 250 m only.
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.	All primary & secondary data are supported with relevant references and documentary evidences in the final DSR.
15.	Bulk density and specific gravity of the sand should be certified by NABL accredited laboratory.	Attached as annexure D
16.	Concave side of the river should be avoided for identification of sand leases / ghats.	No any sand leases / ghats has been proposed on concave side of the river.
17.	KML files of Existing leases / ghats and proposed leases / ghats should be provided.	Complied
18.	Cluster and contiguous cluster formation should be followed as per EMGSM guidelines, 2020.	Complied
19.	Average length and width of the river should be including and mining should be restricted to 3/4th of the river width and mining should be restricted within 60% of the mineable reserve.	Complied, please refer annexure H

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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
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)



चतरा जिलान्तर्गत झारखण्ड राज्य खनिज विकास निगम (JSMDC) द्वारा संचालित बालूघाटो की सूची –

क्र0सं0	थाना	कंपनी का नाम	नदी	बालूघाट स्थल का विवरण	CTO Capacity	Co-ordinate	
1	2	3	4	5			
1	हंटरगंज	M/s Jharkhand State Mineral Development Corporation Ltd, Ranchi.	लीलाजन नदी	मौजा– बॉकी खाता सं0–13 प्लॉट सं0–01 रकबा–9.25 एकड	13580.88 TPM	24°24'36.02" 24°24'36.35" 24°24'38.29" 24°24'41.13" 24°24'43.18" 24°24'44.56" 24°24'42.19" 24°24'40.15" 24°24'38.22"	84°48'46.52" 84°48'41.19" 84°48'40.93" 84°48'40.48 84°48'40.34" 84°48'46.12" 84°48'46.19" 84°48'46.16" 84°48'46.35"
2	हंटरगंज	M/s Jharkhand State Mineral Development Corporation Ltd, Ranchi.	लीलाजन नदी	मौजा– गढकेदली (नावाडीह) खाता सं0– 25 एवं 52 प्लॉट सं0 – 01, 275 रकबा–10.50 ए0	19987.77 MT/ Month	24°26'9.00" 24°26'10.92" 24°26'12.42" 24°26'13.97" 24°26'15.39" 24°26'17.28" 24°26'18.75" 24°26'17.52" 24°26'15.83" 24°26'14.41" 24°26'12.60" 24°26'11.12" 24°26'10.16"	84°49'20.44" 84°49'17.87" 84°49'15.86" 84°49'13.76" 84°49'11.87" 84°49'13.74" 84°49'15.03" 84°49'16.95" 84°49'19.67" 84°49'21.90" 84°49'24.73" 84°49'23.12" 84°49'21.82"
3	हंटरगंज	M/s Jharkhand State Mineral Development Corporation Ltd, Ranchi.	लीलाजन नदी	मौजा– लोहसिंघनाखुर्द खाता सं0– 01 प्लॉट सं0–01, रकबा–10.22 एकड	350.33 Cum/Day	24°21'7.25" 24°21'4.07" 24°21'2.23" 24°20'59.89" 24°20'57.93" 24°20'55.03" 24°20'56.23" 24°20'58.45" 24°21'1.18" 24°21'4.82" 24°21'8.37"	84°48'3.79" 84°48'2.09" 84°48'1.12" 84°47'59.05" 84°47'57.55" 84°47'55.67" 84°47'53.04" 84°47'54.46" 84°47'56.26" 84°47'58.46" 84°48'0.03"
4	प्रतापपूर	M/s Jharkhand State Mineral Development Corporation Ltd, Ranchi.	मोरहर नदी	मौजा– घोरीघाट खाता सं0– ..... प्लॉट सं0– 03 रकबा– 08.00 एकड	14346.8 TPM	24°22'41.49" 24°22'40.99" 24°22'40.53" 24°22'39.56" 24°22'37.88" 24°22'35.39" 24°22'36.97" 24°22'37.82" 24°22'38.18" 24°22'38.61"	84°31'54.36" 84°31'57.24" 84°31'59.59" 84°32'3.68" 84°32'7.83" 84°32'6.43" 84°32'2.40" 84°31'59.53" 84°31'56.87" 84°31'54.19"

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Table List of Existed Sand Ghat (Source Old DSR)

SL.NO	River Name	Ghat Name	Lease Details	Area in 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 /Annum considering digging depth max As 3 meters	Mineral to be mined (Sand/ Bajri /RBM etc.)	Existed/ Proposed	Co-ordinate
1	Barki Nadi	Barki Nadi Balu ghat	Village and Gram Panchayat- Tandwa, Block & P.s- Tandwa, Distict- Chatra, State- Jharkhand	2.42	-	-	NO	93412	Sand	Existed	1. 23°51'29.5"N85°1'59.5"E 2. 23°51'32.5"N 85°2'2.1"E 3. 23°51'24.0"N 85°2'8.1"E 4. 23°51'24.9"N 85°2'9.3"E 5. 24°16'37.0"N84°49'44.3"E 6. 24°16'38.2"N84°49'43.8"E 7. 24°16'52.5"N84°50'10.2"E 8. 24°16'54.6"N84°50'7.3"E 9. 23°57'34.7"N86°36'14.0"E 10. 23°57'36.8"N86°36'20.0"E 11. 23°57'6.5"N86°36'57.0"E 12. 23°57'10.0"N86°36'59.5"E
2	Lilajan Nadi	Bhuiyandih Sand Ghat	Village Bhuiyandih of Salaiya Gram Panchayat , Block & P.s – Hanterganj, District- Chatra Jharkhand	8.26	-	-	NO	318836	Sand	Existed	1. 24°16'37.0"N 84°49'44.3"E 2. 24°16'38.2"N84°49'43.1"E 3. 24°16'52.5"N84°50'10.2"E 4. 24°16'54.6"N84°50'7.3"E

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3	Mohana River	Dhuna Balu Ghat	Village – Katua Nadi , Anchal- Itkhori, Panchayat- Dhuna District- Chatra, State- Jharkhand	5.96	-	-	NO	248391	Sand	Existed	1. 24°18'5.84"N85°8'39.80"E 2. 24°18'6.10"N85°8'41.51"E 3. 24°17'45.34"N85°8'25.82"E 4. 24°17'43.79"N85°8'26.49"E
4	Lilajan Nadi	Dumarikala Sand Ghat	Village – Dumarikala of Dumarikala , Gram Panchayat, Block& P.S- Hanterganj, District- Chatra, State- Jharkhand	8.5	-	-	NO	328100	Sand	Existed	1. 24°24'31.0"N84°48'44.2"E 2. 24°24'31.5"N84°48'47.7"E 3. 24°24'5.3"N84°48'48.5"E 4. 24°24'5.9"N84°48'52.4"E
5	Lilajan Nadi	Dumrikhurd Sand Mining	At Villag- Dumrikhurd P.S- Hunterganj District- Chatra, State- Jharkhand	9.41	-	-	NO	336155.82	Sand	Existed	1. 24°25'01.6"N84°48'34.7"E 2. 24°25'01.9"N84°48'41.0"E 3. 24°24'49.6"N84°48'33.7"E 4. 24°24'48.7"N84°48'38.8"E 5. 24°24'40.3"N84°48'35.5"E 6. 24°24'41.4"N84°48'39.6"E

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6	Gerua Nadi	Gadilong Sand Ghat	Village-Gadilong, of Gadilong Gram Panchayat, Block & P.S-Tandwa District-Chatra, State-Jharkhand	6.15	-	-	NO	115800	Sand	Existed	1. 23°51'33.8"N85°01'43.5"E 2. 23°51'36.4"N85°01'42.9"E 3. 23°51'33.7"N85°01'53.5"E 4. 23°51'36.5"N84°01'54.1"E 5. 23°51'33.3"N85°1'36.9"E 6. 23°51'31.9"N85°1'35.9"E 7. 23°51'34.9"N85°2'58.8"E 8. 23°51'30.4"N85°2'58.8"E
7	Lilajan Nadi	Garh Kedli Sand Ghat	Village-Garh kedli sand Ghat of Kedli Gram Panchayat, Block & P.S-Hunterganj District-Chatra, State-Jharkhand	2.8	-	-	NO	108080	Sand	Existed	1. 24°25'44.0"N84°49'9.7"E 2. 24°25'45.8"N84°49'4.0"E 3. 24°25'49.0"N84°49'13.0"E 4. 24°25'50.8"N84°49'8.0"E 5. 23°57'34.7"N86°36'14.0"E 6. 23°57'36.8"N86°36'20.0"E 7. 23°57'6.5"N86°36'57.0"E 8. 23°57'10.0"N86°36'59.5"E
8	Lilajan Nadi	Jorikala Sand Ghat	Village-Jorikala of Jori Gram Panchayat, Block & P.S-Hunterganj District-Chatra, State-Jharkhand	14.56	-	-	NO	137416	Sand	Existed	1. 24°18'43.0"N84°47'33.7"E 2. 24°18'42.2"N84°47'27.0"E 3. 24°19'8.2"N84°47'29.3"E 4. 24°19'8.3"N84°47'23.7"E 5. 24°18'43.0"N84°47'33.7"E 6. 24°18'42.2"N84°47'47.27"E 7. 24°19'8.2"N84°47'29.3"E 8. 24°19'8.3"N84°47'23.7"E

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9	Lilajan Nadi	Jorikhurd Sand Ghat	Village-Jorikhurd of Salaiya Gram Panchayat, Block & P.S-Hunterganj District-Chatra, State-Jharkhand	7.28	-	-	NO	281008	Sand	Existed	1. 24°18'3.2"N84°47'45.8"E 2. 24°18'4.9"N84°47'41.0"E 3. 24°18'25.0"N84°47'37.0"E 4. 24°18'24.3"N84°47'33.5"E
10	Lilajan Nadi	Boda and Ghanghri Balu Ghat	Village-Boda & Ghanghari, Anchal - Hunterganj District-Chatra, State-Jharkhand	7.28	-	-	NO	420878.96	Sand	Existed	1. 24°21'19.63"N84°48'5.14"E 2. 24°21'20.12"N84°47'59.88"E 3. 24°21'5.95"N84°48'2.25"E 4. 24°21'6.23"N84°47'57.94"E 5. 24°22'37.04"N84°48'34.12"E 6. 24°22'36.92"N84°48'37.16"E 7. 24°22'22.45"N84°48'30.11"E 8. 24°22'22.0"N84°48'33.24"E
11	URSU River	Kamudang kalan Balu Ghat	Village-Kamudang kalan, Tehsil-Tandwa, Distict-Chatra, State-Jharkhand	2.55	-	-	NO	112447.59	Sand	Existed	1. 23°52'54.05"N 85°01'22.75"E 2. 23°52'53.05"N 85°01'24.05"E 3. 23°52'38.15"N 85°01'23.10"E 4. 23°52'37.75"N 85°01'22.59"E
12	Lilajan Nadi	Khutikewal khurd Sand Ghat	Village-Khutikewal khurd, Thana-Hanterganj, Distict-Chatra, State-Jharkhand	4.04	-	-	NO	152856	Sand	Existed	1. 24°25'46.06"N 84°48'48.00"E 2. 24°25'46.01"N 84°48'48.6"E 3. 24°25'42.05"N 84°48'46.3"E 4. 24°25'42.4"N 84°48'45.3"E

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13	Damodar River	Kichto Balu Ghat	Village-Kichto, Anchal-Tandwa, Panchyat-Kichto, Distict-Chatra, State-Jharkhand	2.024	-	-	NO	115249.95	Sand	Existed	1. 23°43'06.38 "N to 23°43'45.92 "N 2. 85°03'28.63"E to 85°05'53.64"E
14	Garhi River	Laranga Sand Ghat	Village-Laranga, Thana-Tandwa, Distict-Chatra, State-Jharkhand	0.808	-	-	NO	31839.21	Sand	Existed	1. 23°48'18.73"N 85°02'13.51"E 2. 23°48'17.32"N 85°02'15.37"E 3. 23°48'14.56"N 85°02'12.42"E 4. 23°48'15.61"N 85°02'09.37"E
15	Mohana River	Mohane Nadi Balu Ghat	Village-Mohana Nadi, Anchal-Itkhori, Panchyat-Mohane Nadi, Distict-Chatra, State-Jharkhand	8.1	-	-	NO	468990	Sand	Existed	1. 24°17'39.03"N 85°08'03.84"E 2. 24°17'39.03"N 85°08'07.02"E 3. 24°17'18.90"N 85°08'46.74"E 4. 24°17'16.99"N 85°08'45.02"E
16	Lilajan Nadi	Nagar Sand Ghat	Village-Nagar, Thana-Hanterganj, Distict-Chatra, State-Jharkhand	4.04	-	-	NO	136007.1	Sand	Existed	1. 24°26'50.85"N 84°49'58.19"E 2. 24°26'49.99"N 84°49'59.84"E 3. 24°26'46.53"N 84°49'58.75"E 4. 24°26'46.98"N 84°49'56.66"E

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17	mohani River	Nagwa Balu Ghat	Village-Nagwa of Tonatand Gram Panchayat, Block & P.s-Itkhori, Distict-Chatra, State-Jharkhand	2.3	-	-	NO	88780	Sand	Existed	1. 24°16'45.07"N 85°08'25.00"E 2. 24°16'46.08"N 85°08'24.1"E 3. 24°16'54.05"N 85°08'40.3"E 4. 24°16'55.5"N 85°08'39.3"E
18	mohani River	Nagwa Balu Ghat	Village-Tonatand of Tonatand Gram Panchayat, Block & P.s-Itkhori, Distict-Chatra, State-Jharkhand	10.926	-	-	NO	421744	Sand	Existed	1. 24°15'35.0"N 85°07'37.8"E 2. 24°15'34.5"N 85°07'36.0"E 3. 24°16'4.8"N 85°07'46.4"E 4. 24°16'8.0"N 85°07'43.7"E
19	Lilajan Nadi	Pindrakalan Sand Ghat	Village-Pindrakalan, Thana-Hanterganj, Distict-Chatra, State-Jharkhand	2.83	-	-	NO	165067.11	Sand	Existed	1. 24°27'29.3"N 84°51'44.8"E 2. 24°27'25.4"N 84°51'46.6"E 3. 24°27'22.5"N 84°51'39.5"E 4. 24°27'26.3"N 84°51'37.7"E
20	Lilajan Nadi	Pinri Sand Ghat	Village-Pinri, Thana-Hanterganj, Distict-Chatra, State-Jharkhand	2.02			NO	74517.3	Sand	Existed	1. 24°27' 05.4"N 84°50'21.2"E 2. 24°27' 01.3"N 84°50'14.0"E 3. 24°27' 05.3"N 84°50'11.9"E 4. 24°27' 08.9"N 84°50'19.2"E

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21	Khadhiya Nadi	Shisai Sand Ghat	Village-Shisai of Kabra Gram Panchayat, Block & P.s-Tandwa, Distict-Chatra, State-Jharkhand	1.42	-	-	NO	54812	Sand	Existed	1. 23°56' 3.4"N 85°1'28.0"E 2. 23°55' 55.3"N 85°1'23.2"E 3. 23°55' 56.2"N 85°1'22.0"E 4. 23°56' 3.2"N 85°1'26.5"E
22	Lilajan Nadi	Sugi Sand Ghat	Village-Sugi, Thana-Huntarganj, Distict-Chatra, State-Jharkhand	2.42	-	-	NO	86768.94	Sand	Existed	1. 24°27' 45.9"N 84°52'26.2"E 2. 24°27' 37.4"N 84°52'25.3"E 3. 24°27' 38.3"N 84°52'21.6"E 4. 24°27' 46.6"N 84°52'23.2"E
23	Rasari/Garhi River	Suraiya (Chora) Balu Ghat	Village-Surāiya (Chora) Anchal-Tandwa, Panchayat-Bahera, Distict-Chatra, State-Jharkhand	4.95	-	-	NO	709263.42	Sand	Existed	1. 23°47' 33.44"N 85°01'56.21"E 2. 23°47' 33.13"N 85°01'59.23"E 3. 23°47' 5.65"N 85°01'59.39"E 4. 23°47' 3.39"N 85°01'59.32"E 5. 23°47' 8.98"N 85°02'7.75"E 6. 23°47' 6.85"N 85°02'8.10"E 7. 23°47' 17.39"N 85°2'22.18"E 8. 23°47' 16.22"N 85°2'23.42"E

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24	Kandar nadi	Vanasingh Sand Ghat	Village-Vanasingh of Jori Gram Panchayat, Block & P.s-Hanterganj, Distict-Chatra, State-Jharkhand	3.56	-	-	NO	137416	Sand	Existed	1. 24°19' 50.2"N 84°47'40.6"E 2. 24°19' 52.6"N 84°47'39.0"E 3. 24°19' 56.7"N 84°47'54.0"E 4. 24°19' 59.0"N 84°47'52.7"E 5. 23°56' 3.2"N 85°1'26.5"E 6. 23°56' 3.4"N 85°1'28.0"E 7. 23°55' 55.3"N 85°1'23.2"E 8. 23°55' 56.2"N 84°1'22.0"E

LIST OF CIRCLE WISE SETTLED SAND GHAT IN CHATRADISTRICT (Source Old DSR)

*Table **Error! No text of specified style in document.**(05)*

Sl No.	River Name	Name of Panchyat	Name of Lessee	Mouja	Khata No.	PlotNo.	Area	Period
1	2	3	4	5	6	7	8	9
01	Lilajan	Gosaidih	Sri Shakti Singh	Pindrakala Nagar Pinari Suggi	17 35 31 74	437 to 439 251(p) 302(p) 566	7.00 10.00 5.00 6.00	04.03.16 to 03.03.19
02	Lilajan	Khutikewal-Khurd	Puja Enterprises	Dumrikhurd Khutikewal-khurd	119 59	268,269 285	23.25 10.25	28.01.16 To 27.01.19

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03	Lilajan	Dumrikala	Munnasingh	Dumrikala	94	656	21.00	04.03.16 to 03.03.19
04	Lilajan	Kedali	Munnasingh	Garhkedali	25	01	07.00	04.03.16 to 03.03.19
05	Lilajan	Kataiya	Sahay Construction	Boda Ghanghari	85 99	389(p) 01/616	6.00 12.00	04.03.16 to 03.03.19

Table circle Tandwa(03)

Sl No.	River Name	Name of Panchyat	Name of Lessee	Mouja	Khata No.	PlotNo.	Area	Period
1	2	3	4	5	6	7	8	9
01	Gerua	Gadilong	Premchand Singh	Gadilong	161	1120	15.20	04.03.16 to 03.03.19
02	Garhi	Bahera	Sahay Construction	Suraiya (Chourra)	16	01(p)	12.25	29.02.16 to 28.02.19
03	Ursu	Kasiyadih	SurajUraw	Kamudangkala	116	586	6.30	04.03.16 to 03.03.19

Table Circle Itkhori (03)

Sl No.	River Name	Name of Panchyat	Name of Lessee	Mouja	Khata No.	PlotNo.	Area	Period
1	2	3	4	5	6	7	8	9
01	Mohane	Dhuna	Ranjeet Singh	Katua	26	168	14.06	04.03.16 to 03.03.19
02	Mohane	Tonatand	Ranjeet Singh	Nagwa Hathiya	07 45	539 01	5.75 27.00	04.03.16 to 03.03.19
03	Mohane	Itkhori	Rajeet Singh	MohaneBalughat	162 --	560 (p) 560(p)	13.88 20.00 33.88	---

LIST OF CIRCLE WISE UNSETTLED SAND GHAT IN CHATRADISTRICT

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Table Simriya (01)

Sl No.	River Name	Name of Panchyat	Name of Sandghat	Mouja	Khata No.	PlotNo.	Area
1	2	3	4	5	6	7	8
01	AmanatNadi	Jabra	Hukarkhap	Hunkarkhap	--	--	

Table Tandwa (01)

Sl No.	River Name	Name of Panchyat	Name of Sandghat	Mouja	Khata No.	Plot No.	Area
1	2	3	4	5	6	7	8
01	Utradhi	Kalyanpur	Laranga	Laranga	--	--	1.88

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LIST OF CIRCLE WISE CANCELLED SAND GHAT IN CHATRADISTRICT

Table Hunterganj (04)

Sl No.	River Name	Name of Panchyat	Name of Sandghat	Mouja	Khata No.	PlotNo.	Area
1	2	3	4	5	6	7	8
01	Lilajan	Jori	Jorikalan	Jorikalan	267	1168 , 1173	36.00
02	Lilajan	Jori	Jorikalan	Jorikalan (Vansingh)	267	1174	8.80
03	Lilajan	Salaiya	Jorikhurd	Jorikhurd	68	01	18.00
04	Zamnadi	Salaiya	Godre	Godre	02	12 , 28	20.40

Table Tandwa (04)

Sl No.	River Name	Name of Panchyat	Name of Sandghat	Mouja	Khata No.	PlotNo.	Area
1	2	3	4	5	6	7	8
01	Barki	Tandwa	Tandwa	Tandwa	222	1983	6.00
02	Damodar	Kichato	Piparwar	Piparwar	39	534, 632, 649, 663(p)	5.00
03	Khadiya	Kabra	Sisai	Sisai	115	1050	3.50
04	GarhiNadi	Raham	Laranga	Laranga	-	118 (p)	2.00

Table Itkhori (01)

Sl No.	River Name	Name of Panchyat	Name of Sandghat	Mouja	Khata No.	PlotNo.	Area
1	2	3	4	5	6	7	8
01	Basane	Itkhori	Gulli	Gulli	155	2376	03.76

Table KanhaChatti (01)

Sl No.	River Name	Name of Panchyat	Name of Sandghat	Mouja	Khata No.	PlotNo.	Area
1	2	3	4	5	6	7	8
01	Tatra	Charu	Tatra	Tatra	--	--	10.00

LIST OF UN-SETTLED SAND GHAT IN THE DISTRICT

Table Tandwa

Sl No.	Panchayat Name	Name of Sand Ghat (Mouja)	River	Area (Acre)	Lengthof Deposit (m)	Width of deposit (m)	Depth of deposit (m)	Category	Reserve (MT.)	Reserve (M3)	Orderof River	Distance from State Boundary	Distance from Forest Boundary
01	Tandwa	Tandwa	Barki	12.00	700	60	2	II	0.168	84000	6th	Above 10 km	In this Mouja, there is no forest land
02	Gadilong	Gadilong	PanghatwaNadi	4.50	180	40	2	II	0.0288	14400	5th	Above 10 km	In this Mouja, there is no forest land

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03	Raham	Laranga	Barki Nadi	2.20 5.30 7.50	200 255	40 70	2 2	II II	0.032 0.0714	16000 35700	6th	Above 10 km	60 m
04	Kichto	Kichto	Gahari	1.50	150	30	2	II	0.018	9000	6th	Above 10 km	490 m
05	Mishrol	Binglat	BinglatNadi (Barki Nadi)	1.00	75	50	2	I	0.015	7500	5th	Above 10 km	110 m
06	Mishrol	Khadaiya	Khadaiya (Barki Nadi)	2.00	200	40	2	II	0.032	16000	5th	Above 10 km	In this Mouja, there is no forest land
07	Kalyanpur	Utradhi	BarkiNadi	4.00	250	50	2	II	0.05	25000	6th	Above 10 km	300 m
08	Kabra	Sisai	Sisai (Barki Nadi)	1.00	75	50	2	I	0.015	7500	5th	Above 10 km	90 m
09	Kalyanpur	Dundua	RoriNadi (Gahri Nadi)	2.00	200	25	2	II	0.02	10000	5th	Above 10 km	10 m
10	Kalyanpur	Dundua	RoriNadi (Gahri Nadi)	2.90	200	45	2	II	0.036	18000	5th	Above 10 km	400 m

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Table Hunterganj

Sl No.	Panchayat Name	Name of Sand Ghat (Mouja)	River	Area (Acre)	Lengthof Deposit (m)	Width of deposit (m)	Depth of deposit (m)	Category	Reserve (MT)	Reserve (M3)	Orderof River	Distance from State Boundary	Distance from Forest Boundary
01	Uraili	Uraili	LilajanNadi	32.50	575	180	2.5	II	0.5175	258750	7th	Within 10Km	1200 m
	Uraili	Larsar	LilajanNadi	28.10	500	140	2.5	II	0.35	175000	7th	Within 10Km	265 m
	Uraili	Pati	LilajanNadi	30.60	450	175	2.5	II	0.39375	196875	7th	Within 10Km	375 m
02	Tarwagaddha	Sokha	LilajanNadi	15.60	300	100	2.5	II	0.15	75000	7th	Above 10Km	350 m

	Tarwagaddha	Sahi	LilajanNadi	25.10	800	85	2.5	II	0.34	170000	7th	Above 10Km	350 m
	Tarwagaddha	Tetariya	LilajanNadi	25.55	950	85	2.5	II	0.40375	201875	7th	Above 10Km	300 m
3	Kedalikala	Garhkedali	LilajanNadi	10.50	250	140	2.5	II	0.175	87500	7th	Above 10Km	400 m
4	Uraili	Dewariya (Dumriya)	LilajanNadi	22.65	500	150	2.5	II	0.375	187500	7th	Within 10Km	400 m
5	Kobna	Kobna& Dumrikala	LilajanNadi	33.45 22.50	600 300	150 225	2.5 2.5	II	0.45 0.33	225000 168750	7th	Above 10Km	400 m 560 m
6	Khutikewal kedalikalan	Godovar & Kedalikala	LilajanNadi	59.55	650	325	2.5	II	1.05625	528125	7th	Above 10Km	340 m
7	Tarwagada	Murar	Golai Nadi	18.00	950	70	2.5	II	0.3325	166250	5th	Above 10Km	260 m
8	Painikalan	Lohsighna	LilajanNadi	32.55	900	100	2.5	II	0.45	225000	7th	Above 10Km	260 m
9	Karailibar	Kurid	LilajanNadi	7.30	450	45	2.5	II	0.10125	50625	7th	Above 10Km	264 m
10	Dumarikalan	Dewariya	LilajanNadi	27.00	800	110	2.5	II	0.44	220000	7th	Above 10Km	295 m
11	Karma	Nijra	LilajanNadi	17.84	1100	60	2.5	II	0.33	165000	7th	Above 10Km	0.00
12	Dumrikalan	Bela	LilajanNadi	15.00	400	130	2.5	II	0.26	130000	7th	Above 10Km	290 m
13	Painikalan	Lohsighna Khurd	LilajanNadi	10.22	400	75	2.5	II	0.15	75000	7th	Above 10Km	350 m
14	Kataiya	Kataiya	LilajanNadi	27.40	1150	75	2.5	II	0.43125	215625	7th	Above 10Km	262 m
15	Kataiya	Ghangari	LilajanNadi	21.43	450	150	2.5	II	0.3375	168750	7th	Above 10Km	0.00

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16	Kedlikalan	Bihari	LilajanNadi	10.85	250	150	2.5	II	0.1875	93750	7th	Above 10Km	420 m
17	Karailibar	Kewla	LilajanNadi	7.90	340	60	2.5	II	0.102	51000	7th	Above 10Km	165 m
18	Karma	Banki	LilajanNadi	9.25	200	150	2.5	II	0.15	75000	7th	Above 10Km	390 m

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Table Giddaur

Sl No.	Panchayat Name	Name of Sand Ghat (Mouja)	River	Area (Acre)	Lengthof Deposit (m)	Width of deposit (m)	Depth of deposit (m)	Category	Reserve (MT.)	Reserve (M3)	Order of River	Distance from State Boundary	Distance from Forest Boundary
01		Sinduari Khurd	Basane Nadi	3.50	350	30	2	II	0.042	21000	5th	Above 10 km	0.00
02		Amin	Sugwa Nadi (Gahri River)	4.00	525	20	2	II	0.042	21000	5th	Above 10 km	0.00
03		Duari	Balbal Nadi (Dhab River)	5.00	170	120	2.5	II	0.102	51000	5th	Above 10 km	0.00
04		Duari	Balbal Nadi (Dhab River)	3.30 1.20 4.50	275 125	45 25	2 2	II	0.0495 0.0125	24750 6250	5th	Above 10 km	0.00
05		Sinduari Kala	Hadhadwa Nadi (Basane River)	1.70	225	30	2	I	0.027	13500	5th	Above 10 km	0.00

06		Sinduari Kala	Hadhadwa Nadi (Basane River)	2.00	225	30	2	II	0.027	13500	5th	Above 10 km	0.00
07		Peksa	Siwani Nadi	1.50	200	15	2	I	0.012	6000	2nd	Above 10 km	50m
08		Manjhgawan	Basane Nadi	8.00	660	30	2	II	0.0792	39600	5th	Above 10 km	375m
09		Manjhgawan	Basane Nadi	8.00	600	30	2	II	0.072	36000	5th	Above 10 km	0.00
10		Manjhgawan	Basane Nadi	6.00	550	20	2	II	0.044	22000	5th	Above 10 km	130m
11		Manjhgawan	Basane Nadi	7.50	600	35	2	II	0.084	42000	5th	Above 10 km	0.00

Table Pathar Gadda

Sl No.	Panchayat Name	Name of Sand Ghat (Mouja)	River	Area (Acre)	Lengthof Deposit (m)	Width of deposit (m)	Depth of deposit (m)	Category	Reserve (MT.)	Reserve (M3)	Order of River	Distance from State Boundary	Distance from Forest Boundary
01		Balehar	Dhab River	2.00	170	30	2	I	0.0204	10200	5th	Above 10 km	145m
02		Balehar	Dhab River	6.00	350	45	2	II	0.063	31500	5th	Above 10 km	0.00

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03		Tetria	Dhab River	5.00	260	60	2	II	0.0624	31200	5th	Above 10 km	150 m
04		Barwadih	Dhab River	5.00	550	30	2	II	0.066	33000	5th	Above 10 km	0.00
05		Nongaon	Dhab River	6.75	200	130	2	II	0.104	52000	5th	Above 10 km	155 m
06		Singhani	Dhab River	5.00	270	60	2	II	0.0648	32400	5th	Above 10 km	220 m

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Table Pratappur

Sl No.	Panchayat Name	Name of Sand Ghat (Mouja)	River	Area (Acre)	Lengthof Deposit (m)	Width of deposit (m)	Depth of deposit (m)	Category	Reserve (MT.)	Reserve (M3)	Order of River	Distance from State Boundary	Distance from Forest Boundary
01	Humazang	Navratanpur	Dhoi Nadi	4.00	270	45	2	I	0.0486	24300	4th	Within 10Km	0.00
02	Humazang	Navratanpur	Dhoi Nadi	4.00	350	30	2	I	0.042	21000	4th	Within 10Km	480 m
03	GhoriGhat	GhoriGhat	Morhar Nadi	8.00	300	90	2.5	II	0.135	67500	7th	Within 10Km	1380 m

04	Bharahi	Rabda	Morhar Nadi	8.90	380	75	2.5	II	0.1425	71250	7th	Within 10Km	180 m
05	Aghara	Kaura	Morhar Nadi	5.80	200	75	2.5	II	0.075	37500	7th	Within 10Km	200 m
06	Dumarwar	Raharia	Morhar Nadi	4.95	300	45	2.5	II	0.0675	33750	7th	Within 10Km	60 m

Table Mayurhand

Sl No.	Panchayat Name	Name of Sand Ghat (Mouja)	River	Area (Acre)	Lengthof Deposit (m)	Width of deposit (m)	Depth of deposit (m)	Category	Reserve (MT.)	Reserve (M3)	Order of River	Distance from State Boundary	Distance from Forest Boundary
01	Soki	Soki	Barakar	10.22	850	40	2	II	0.136	68000	6th	Above 10 km	0.00
02	Petadiri	Dharmpur	Leriya	5.85	800	18	1.5	II	0.0432	21600	4th	Above 10 km	0.00
03	Petadiri	Dharmpur	Leriya	3.70	350	25	1.5	I	0.02625	13125	4th	Above 10 km	0.00
04	Petadiri	Petadiri	Barakar	4.28	300	40	2	II	0.048	24000	6th	Above 10 km	0.00
05	Fulang	Mahuai	Barakar	5.50	500	40	2	II	0.08	40000	6th	Above 10 km	0.00

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Table Kanhachatti

Sl No.	Panchayat Name	Name of Sand Ghat (Mouja)	River	Area (Acre)	Lengthof Deposit (m)	Width of deposit (m)	Depth of deposit (m)	Category	Reserve (MT.)	Reserve (M3)	Order of River	Distance from State Boundary	Distance from Forest Boundary
01	Tulbul	Banda	Gahrai Nadi	12.87	650	60	1.5	II	0.117	58500	5th	Above 10 km	0.00
02	Jamribakaspura	Jamribakaspura	Gahrai Nadi	8.05	900	20	1.5	II	0.054	27000	5th	Above 10 km	0.00
03	Jamribakaspura	Jamribakaspura	Gahrai Nadi	5.50	650	25	1.5	II	0.04875	24375	5th	Above 10 km	0.00
04	Madgara	Madgara	Gahrai Nadi	5.90	700	15	1.5	II	0.0315	15750	5th	Above 10 km	0.00
05	Madgara	Madgara	Gahrai Nadi	1.55	75	35	1.5	I	0.007875	3937.5	5th	Above 10 km	0.00
06	Madgara	Madgara	Vanghatia (Basane) Nadi	11.45 3.45	1000 200	30 40	1.5 1.5	II	0.09 0.024	45000 12000	5th	Above 10 km	0.00
07	Madgara	Bindhani	Bashati (Basane Nadi)	17.50	900	40	1.5	II	0.108	54000	5th	Above 10 km	0.00
08	Bakchuma	Borekhap	Gahrai Nadi	1.85	400	10	1.5	I	0.012	6000	5th	Above 10 km	180 m
09	Madgara	Harhadh	Basane Nadi	25.90	850	90	1.5	II	0.2295	114750	5th	Above 10 km	0.00

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Table Itkhori

Sl No.	Panchayat Name	Name of Sand Ghat (Mouja)	River	Area (Acre)	Lengthof Deposit (m)	Width of deposit (m)	Depth of deposit (m)	Category	Reserve (MT.)	Reserve (M3)	Order of River	Distance from State Boundary	Distance from Forest Boundary
01	Dhuna	Katua	Mahane (Mohana) Nadi	6.94	600	35	2	II	0.084	42000	6th	Above 10 km	0.00
02	Tonatand	Nagvan	Mahane (Mohana) Nadi	22.05	875	65	2	II	0.2275	113750	6th	Above 10 km	0.00
03	Itkhori	Itkhori	Mahane (Mohana) Nadi	4.70	375	40	2	II	0.06	30000	6th	Above 10 km	0.00
04	Pitiz	Gulli	Basane Nadi	12.50	1200	30	1.5	II	0.108	54000	5th	Above 10 km	0.00

LIST OF NO MINES ZONE / RESTRICTED AREA 500METERS BOTH SIDE OF THE BRIGDE

Sl No.	Circle	Name of Sand ghat	Thana no.	River	Reason for Restriction	Remarks
1	2	3	4	5	6	7
01	Tandwa	Gadilong	59	Panghatwa River	Bridge on Simriya-Tandwa Road at gadilong (side)	No mining
02	Tandwa	Tandwa	58	Badki nadi	-do-	
03	Tandwa	Piparwar / Kichto		Damodar	Bodh side Bridgeon Damoder River at piparwar Plot no534 etc	

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04	Tandwa	Sisai	42	Sisai Nadi	Restricted Area 500 metre both side ofbridge at Sisai	
05	Gidhor	Duari	71	Balbal nadi	Restricted Area 500metre both side of bridge at Duari villege	
06	Gidhor	Amin	15	Sugwa nadi	Restricted Area 500metre both side of bridge at Amin villege	
07	Gidhor	Peksa	17	Siwana nadi	Restricted Area 500metre both side of bridge at Peksa villege	
08	Kanhachatti	Harhad	45	Pitiz nadi	Restricted Area 500 metre both side ofbridge at Harhad-Gulli villege	
09	Kanhachatti	Banda	28	Basane	Restricted Area 500 metre both side of bridge at Banda villege	
10	Hanterganj	Ghanghari	142	Lilazan	Bridge on chatra- Dobhi Road at ghanghari village (both side)	
11	Itkhori	Guli	10	Basane	Restricted Area 500 metre both side of bridge at guli villege	

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TOTAL POTENTIAL SAND DEPOSITS OF THE DISTRICT

Sl. No.	Name of the River	Portion of the River on stream Recommended for Mineral	Length of Area recommended for Mineral Concession (in Km)	Average widthof Area, recommendedin Mineral Concenssion (in Meters)	Recommendedfor Mineral concession (In Sq. Metre) (Total length xAvg. width)	Mineable Mineral Potential (In Metric Tonne) (60% of total Mineral Potential)	According to Drainagemap of JSAC, Jharkhand Order of River
1	Barakar River	Downstream	1.650	40	66000	158400	6th
2	Barki River	Downstream	1.755	51.42	90242.1	216581.04	6th
3	Basane River	Downstream	7.360	36.25	266800	480240	5th
4	Dhab River	Downstream	2.370	60.55	143503.5	344408.4	4th
5	Dohi River	Downstream	0.620	37.50	23250	55800	4th
6	Domuhan River	Downstream	0.180	40	7200	17280	5th
7	Gahri River	Downstream	4.450	28.5	126825	228285	5th
8	GolaiNadi	Downstream	0.950	70	66500	199500	5th

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9	Lilajan River	Downstream	16.815	120.42	2024862.3	6074586.9	7th
10	Mohana River	Downstream	2.700	46.25	124875	299700	6th
11	Morhar River	Downstream	1.180	71.25	84075	252225	7th

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ANNEXURE-B

(Committee Involved in DSR)



उपायुक्त – सह – जिला दण्डाधिकारी का कार्यालय, चतरा।

(खनन शाखा)

आदेश

SEAC, Jharkhand Ranchi की कार्यवाही दिनांक 07.12.2022 के अनुसार चयनित एजेन्सी द्वारा चतरा जिला के लिए लघु खनिज बालू का निर्गित Draft DSR को माननीय उच्चतम न्यायालय द्वारा वाद संख्या Civil Appeal No. 3661-3662/2020, Pawan kumar Vrs State of Bihar & Ors, Hon'ble NGT in O.A. No. 54/2022/EZ, Bhumi Adhigrahan Visthapan Avam Punarvas Kisan Samiti Vs State of Jharkhand & Ors में पारित न्यायादेश एवं Enforcement and Monitoring Guidelines for Sand Mining, 2020 के तहत जॉच/पुनरीक्षण अनुमण्डल स्तरीय समिति के द्वारा किया जाना है। इस निमित अपर समाहर्त्ता, की अध्यक्षता में निम्नलिखित सदस्यों का एक अनुमण्डल स्तरीय समिति निम्न रूप से गठित की जाती है :–

1.	अपर समाहर्त्ता, चतरा	अध्यक्ष।
2.	वन प्रमण्डल पदाधिकारी, उ0/द0 व0प्र0 चतरा	सदस्य।
3.	वन प्रमण्डल पदाधिकारी, वन्यप्राणी आश्रणयी, हजारीबाग	सदस्य।
4.	अनुमण्डल पदाधिकारी, चतरा	सदस्य।
5.	अनुमण्डल पदाधिकारी, सिमरिया	सदस्य।
6.	जिला खनन पदाधिकारी, चतरा	सदस्य।
7.	सहायक निदेशक, भूतत्व हजारीबाग	सदस्य।
8.	कार्यपालक अभियन्ता, लघु सिंचाई प्रमण्डल, चतरा	सदस्य।
9.	क्षेत्रिय पदा0, JSPCB हजारीबाग।	सदस्य।

समिति को निदेशित है कि माननीय न्यायालय द्वारा पारित न्यायादेश एवं गाईडलाईन के अनुसार Draft DSR को जॉच/पुनरीक्षण करते हुए DSR के प्रत्येक पृष्ठ पर समिति का हस्ताक्षर कर अनुमोदन हेतु यथाशीघ्र अद्योहस्ताक्षरी के समक्ष उपस्थापित करना सुनिश्चित करे, ताकि अग्रेतर कार्रवाई के लिए DSR को SEAC & SEIAA भेजा जा सके।

उपायुक्त,
चतरा

ज्ञापांक 116 /खनन, चतरा दिनांक 07/02/2023.

प्रतिलिपि :– अपर समाहर्त्ता, चतरा/ अनुमण्डल पदाधिकारी, चतरा/सिमरिया / वन प्रमण्डल पदाधिकारी, उ0/द0 व0प्र0 चतरा/ वन प्रमण्डल पदाधिकारी, वन्यप्राणी आश्रणयी, हजारीबाग/जिला खनन पदाधिकारी, चतरा/ सहायक निदेशक, भूतत्व हजारीबाग/कार्यपालक अभियन्ता, लघु सिंचाई प्रमण्डल, चतरा/ क्षेत्रिय पदा0, JSPCB हजारीबाग को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

उपायुक्त,
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Scanned with CamScanner

ANNEXURE-C

(Photographs of the site Survey)

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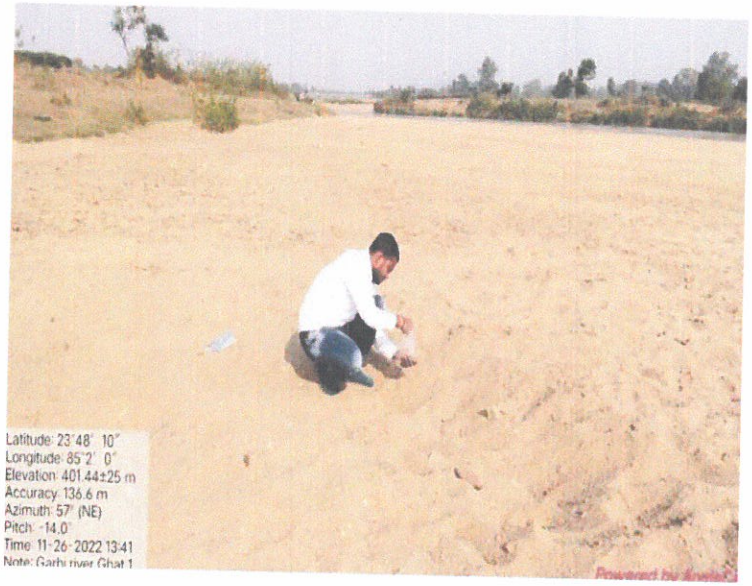
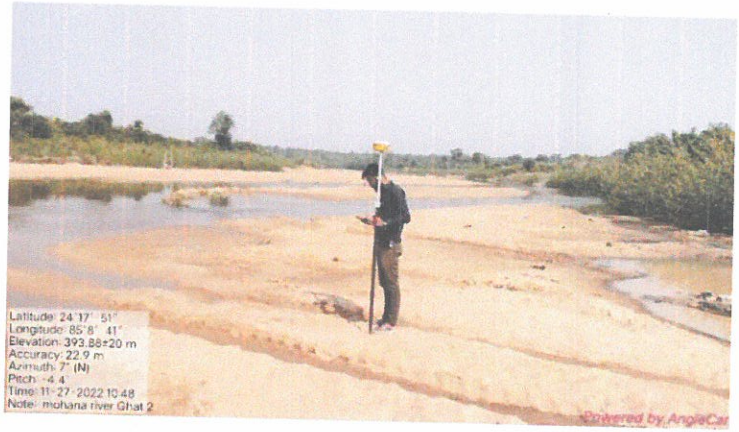
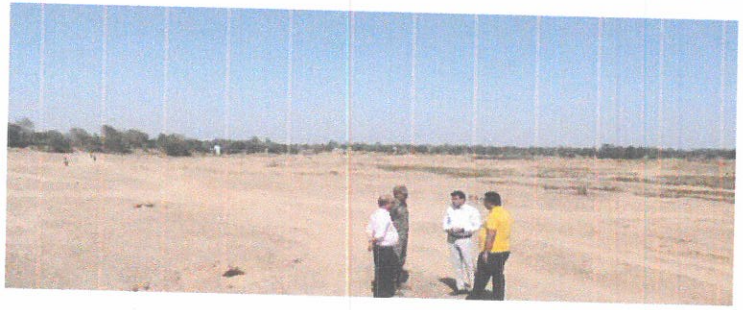
Photograpns













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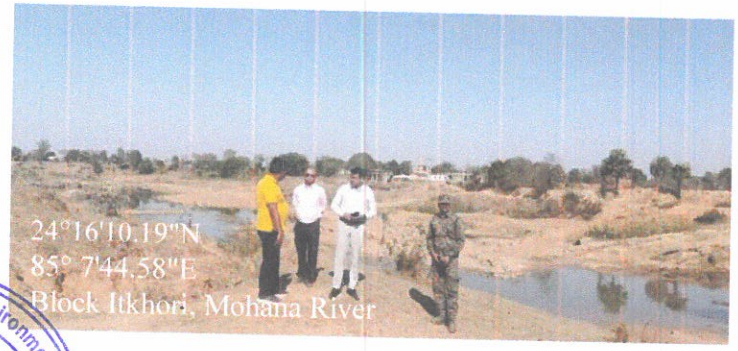
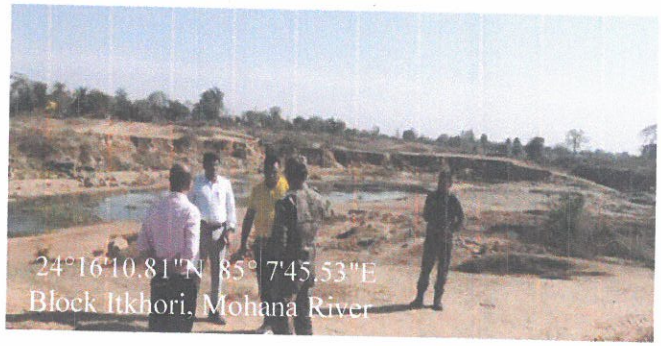
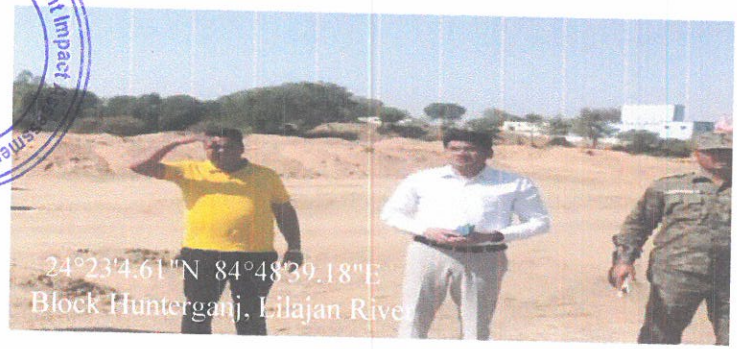
Photograpns

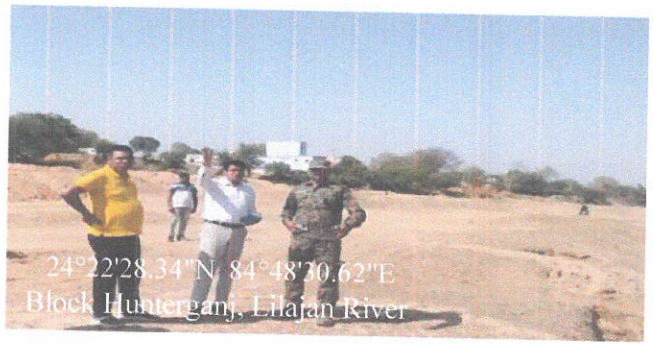












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ANNEXURE-D

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



RAPPID

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Our Dream is Quality only....

TC-10214

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

To, District Mining Officer, Chatra	ULR No. : TC102142200000190F Date of Receipt: 26.11.2022 Date of Testing: 28.11.2022- 29.11.2022 Date of Report : 29.11.2022
Description of Sample : Sand	
Vill: Henjda	River: Damodar
Block: Tandwa	District: Chatra
Ref No: Nil Dated: 26.11.2022	

SL. No.	TEST PARAMETERS	TEST METHOD	Results
1	Specific Gravity	IS 2720 (P-3)	2.59
2	Bulk density , kg/l	IS 2386 (P-3)	1.56

End of Test Report

Rappid Test Lab Pvt. Ltd. PATNA

Authorized Signatory

State Level Environment Impact Assessment Authority Jharkhand, Ranchi Approved

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TC-10214

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

To, District Mining Officer, Chatra	ULR No. : TC102142200000191F Date of Receipt: 26.11.2022 Date of Testing: 28.11.2022-29.11.2022 Date of Report : 29.11.2022

Description of Sample : Sand

Vill: Laranga	River: Garhi
Block: Tandwa	District: Chatra

Ref No: Nil Dated: 26.11.2022

SL. No.	TEST PARAMETERS	TEST METHOD	Results
1	Specific Gravity	IS 2720 (P-3)	2.61
2	Bulk density , kg/l	IS 2386 (P-3)	1.55

End of Test Report

Rappid Test Lab Pvt. Ltd. PATNA

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8802366634, 7004196879 www.rappidtestlabs.com rappidtestlab@gmail.com

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TC-10214

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

To, District Mining Officer, Chatra	ULR No. : TC1021422000000192F Date of Receipt: 26.11.2022 Date of Testing: 28.11.2022-29.11.2022 Date of Report : 29.11.2022
Description of Sample : Sand	
Vill: Nagwa	River: Mohana
Block: Itkori	District: Chatra
Ref No: Nil Dated: 26.11.2022	

SL. No.	TEST PARAMETERS	TEST METHOD	Results
1	Specific Gravity	IS 2720 (P-3)	2.59
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, Garikhana, Khagaul, Near Radiant International School, Patna - 801105 (Bihar)

To, District Mining Officer, Chatra	ULR No. : TC1021422000000193F Date of Receipt: 26.11.2022 Date of Testing: 28.11.2022-29.11.2022 Date of Report : 29.11.2022
Description of Sample : Sand	
Vill: Dumri Khurd	River: Falgu
Block: Hunterganj	District: Chatra

Ref No: Nil Dated: 26.11.2022

SL. No.	TEST PARAMETERS	TEST METHOD	Results
1	Specific Gravity	IS 2720 (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, Garikhana, Khagaul, Near Radiant International School, Patna - 801105 (Bihar)

TEST REPORT

Issued to, District Mining Officer, Chatra	ULR No. : TC1021422000000146F Date of Receipt: 26.11.2022 Date of Testing: 28.11.2022-29.11.2022 Date of Report : 29.11.2022
Description of Sample : Sand	River : Baki river
Block : Tandwa	District : Chatra
Village: Raham	
Ref No: Nil Dated: 26.11.2022	

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)	1.62

End of Test Report

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

TEST REPORT

Issued to, District Mining Officer, Chatra	ULR No. : TC1021422000000145F Date of Receipt: 26.11.2022 Date of Testing: 28.11.2022-29.11.2022 Date of Report : 29.11.2022
Description of Sample : Sand	River : Morhar
Block : Pratappur	District:- Chatra
Village: Bhesiya	
Ref No: Nil Dated: 26.11.2022	

SL. No.	TEST PARAMETERS	TEST METHOD	Results
1	Specific Gravity	IS 2386 (P-3)	2.59
2	Bulk density , gm/cc	IS 2386 (P-3)	1.55

End of Test Report

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ANNEXURE-E

(Proposed Ghat Coordinate)



List of Category II Sand Ghat

Sl.No	POTENTIAL SANDBAR	Lease Details	AREA_Ha.	VILLAGE	THANA NO.	KHATA NO.	KHASRA NO.	BLOCK	Latiude	Longtiude
1	PO_CH_GD_GH_28	Garhi 32	0.9	Manjhgawan	12	64	986	GIDHOUR	24.24186489	85.07146887
									24.24240283	85.07165504
									24.24307603	85.07157922
									24.2437939	85.07134542
									24.24406463	85.07110957
									24.24356576	85.07117073
									24.24321959	85.07119592
									24.24280765	85.07118522
									24.24231112	85.07113132
									24.24178981	85.07102305
2	PO_CH_HG_LJ_1A	Lilajan 01 Vill-Uraili, Bahera, Block-Hunterganj	24.7	Uraili	91	1	76	Hunterganj	24.24186489	85.07146887
				Bahera	93	98	11,133	Hunterganj	24.45427398	84.85493812
									24.4550751	84.85442796
									24.45526912	84.85379769
									24.45555405	84.85306399
									24.455554	84.85259246
									24.45530534	84.85207724
									24.45507572	84.85154877
									24.45479447	84.8509708
									24.45444679	84.85063736
									24.45399887	84.85008423
									24.45386621	84.84909519
									24.45391738	84.84832764
									24.45344381	84.84718526
									24.45287855	84.84608035
									24.45187202	84.84376765
									24.45147236	84.84304834
									24.45123546	84.84320297
									24.45095401	84.84368622
									24.4509523	84.84417663
									24.45095863	84.8442068
									24.45102742	84.84430735
									24.45153902	84.84620212
									24.45156661	84.84628021
									24.45164777	84.84660491
									24.45166988	84.84668681
									24.45225828	84.84883866
									24.45250178	84.84965592
									24.4525008	84.84972563
									24.45250269	84.84973252
									24.45259787	84.85092225
									24.4524551	84.85318274
									24.45257012	84.85511504
									24.4530413	84.85519678

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									24.45427398	84.85493812
			1.46	Suggi	101	74	566	Hunterganj	24.46531028	84.87289149
3	PO_CH_HG_LJ_01	Lilajan 02 Vill-Suggi, Pandarokalan, Block-Hunterganj	4.26	Pandarokalan	103	1	1	Hunterganj	24.46384873	84.87312767
									24.46148533	84.87280771
									24.46255043	84.87350701
									24.4632809	84.87361556
									24.46403507	84.8734819
									24.46531028	84.87289149
									24.45715055	84.86718463
									24.45564876	84.86761333
									24.45586699	84.86895646
									24.45605913	84.86949083
									24.45686245	84.87028532
									24.45800597	84.87092878
									24.45764354	84.8704047
									24.45743933	84.87006668
									24.45725382	84.86953391
									24.45722169	84.86907592
									24.45707372	84.86806606
									24.45715055	84.86718463
4	PO_CH_HG_LJ_02	Lilajan 03 Vill-Garkedali,Block-Hunterganj	9.56	Garkedali	87	25	1	Hunterganj	24.4378928	84.82474818
									24.43886838	84.82672313
									24.44012949	84.82869809
									24.4418665	84.82991161
									24.44255654	84.83091099
									24.44372716	84.83173942
									24.44356205	84.83125077
									24.4433269	84.83039269
									24.44311903	84.82973775
									24.44281655	84.82925553
									24.4424385	84.82879098
									24.44200981	84.82841199
									24.44146843	84.82803129
									24.44098599	84.82772466
									24.44054728	84.82746736
									24.44010889	84.82691478
									24.4397619	84.82644329
									24.43940196	84.82569661
									24.43910731	84.82527303
									24.43831628	84.82493573
									24.43777852	84.82451963
									24.4378928	84.82474818

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5	PO_CH_HG_LJ_03	Lilajan 04 Vill-Nawadih, Block-Hunterganj	4.93	Nawadih	43	52	275	Hunterganj	24.4390548	84.82398938
									24.43932359	84.82409653
									24.43953822	84.8242652
									24.43939672	84.82345223
									24.43909249	84.82247883
									24.43893614	84.82187482
									24.43893775	84.82153594
									24.43863056	84.82129052
									24.4385909	84.8212693
									24.4385349	84.82124148
									24.43848699	84.8212133
									24.43845527	84.82118416
									24.43839223	84.82113368
									24.43834573	84.82108212
									24.43831436	84.82105318
									24.43828298	84.82100889
									24.43826733	84.82097906
									24.43825174	84.82095693
									24.43821289	84.82091323
									24.43817417	84.82088498
									24.43812816	84.82084945
									24.43810518	84.82083556
									24.43807421	84.82080705
									24.43801902	84.82077323
									24.43795819	84.82073139
									24.43794306	84.82071711
									24.43788997	84.82068259
									24.43783641	84.82064095
									24.43782108	84.82062694
									24.43777512	84.82060022
									24.43771389	84.82055218
									24.437669	84.82052514
									24.43757115	84.8204725
									24.43742893	84.82038645
									24.43729517	84.82030809
									24.43729487	84.8203079
									24.43674421	84.82102992
									24.43697236	84.82120822
									24.4373225	84.82138381
									24.43743436	84.82154951
									24.43742506	84.821765
									24.43746637	84.82198182
									24.43771519	84.82222712
									24.43797845	84.82234085
									24.43803144	84.8225307
									24.4379678	84.82279876

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									24.43797818	84.82310142
									24.43816948	84.82337441
									24.43835191	84.82362834
									24.43849266	84.82376516
									24.43873324	84.82388949
									24.4390548	84.82398938
				Kedalikalan	85	127	1, 400, 837	Hunterganj	24.40286713	84.81351713
6	PO_CH_HG_LJ_04	Lilajan 05 Vill-Kedalikalan, Patwa, Banki, Kobani, Block-Hunterganj	46.54	Patwa	77	1	268, 269, 301, 302	Hunterganj	24.4043424	84.81387405
				Banki	78	13	1	Hunterganj	24.40615079	84.81375507
				Kobani	80	151	1	Hunterganj	24.40779262	84.8132078
									24.40886338	84.81306503
									24.40986275	84.81304123
									24.4118615	84.81277949
									24.41443131	84.81249396
									24.41614453	84.81258914
									24.4184764	84.81301744
									24.42052273	84.81387405
									24.42187903	84.81399302
									24.42349706	84.81415958
									24.42632862	84.81534931
									24.42838771	84.81658003
									24.4292121	84.81549911
									24.42907872	84.81540666
									24.42827664	84.81484116
									24.42741923	84.81413508
									24.4264163	84.81363163
									24.42552844	84.81290942
									24.4246821	84.81242136
									24.42393623	84.81185116
									24.4229799	84.81124315
									24.42190988	84.81107598
									24.42071351	84.81113938
									24.41956063	84.8111172
									24.41853486	84.81119248
									24.41729735	84.811323
									24.41608935	84.81152891
									24.41517951	84.81114656
									24.41430649	84.81122937
									24.41369068	84.811474
									24.41297816	84.81156028
									24.41231043	84.81168772
									24.41178553	84.81184734
									24.41086219	84.81217296
									24.4100177	84.8122411
									24.40898577	84.81199833
									24.40792101	84.81196268
									24.4066116	84.81222511

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									24.40467472	84.81275196
									24.40336382	84.81307009
									24.40244041	84.81351713
									24.40286713	84.81351713
7	PO_CH_HG_LJ_05	Lilajan 06 Vill-Sahi,Block-Hunterganj	0.37	Sahi	125	71	368	Hunterganj	24.38875601	84.81769247
									24.38888988	84.81769837
									24.38905548	84.81761251
									24.38929708	84.81717563
									24.38945961	84.81684025
									24.38956239	84.8165678
									24.38932456	84.81674195
									24.38915677	84.81681485
									24.38902818	84.81691527
									24.38896534	84.81704488
									24.38893246	84.81718728
									24.38891544	84.81735281
									24.38886173	84.81746181
									24.38872815	84.81759621
									24.38867261	84.81765784
									24.38875601	84.81769247
8	PO_CH_HG_LJ_06	Lilajan 07 Vill-Sahi, Block-Hunterganj	1.02	Sahi	125	71	368	Hunterganj	24.38710332	84.81893061
									24.38720619	84.8188336
									24.3873366	84.81878884
									24.38743738	84.81878805
									24.38755435	84.81869211
									24.38763878	84.81864298
									24.38777134	84.81861926
									24.38788177	84.81858063
									24.38796397	84.81847139
									24.38797658	84.81846226
									24.38805286	84.81841433
									24.38815588	84.81838058
									24.38822533	84.81831403
									24.38829134	84.81819797
									24.38836404	84.81812841
									24.38846896	84.81809512
									24.38854408	84.81805862
									24.38864422	84.81798981
									24.38865388	84.81798412
									24.38874796	84.81795458
									24.38881678	84.81791411
									24.38885259	84.81786699

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									24.38887883	84.81781692
									24.38878176	84.81774627
									24.38865189	84.81772083
									24.38847534	84.81776229
									24.38825777	84.81791196
									24.38811742	84.818066
									24.38801582	84.81815488
									24.387858	84.81816785
									24.38774025	84.81824472
									24.38761417	84.81835324
									24.38741359	84.81850757
									24.38720681	84.81860269
									24.38710546	84.81866376
									24.38702692	84.81874325
									24.38693703	84.81882237
									24.38683424	84.81886394
									24.38669497	84.81891643
									24.38664829	84.8189967
									24.38664806	84.81912062
									24.3866277	84.81919269
									24.38655867	84.81927148
									24.38647965	84.81945992
									24.38644813	84.81956085
									24.38642007	84.81963977
									24.38635292	84.81968519
									24.38629245	84.81969721
									24.38622498	84.81975598
									24.38621156	84.81981446
									24.38621136	84.81988474
									24.3862485	84.8199357
									24.38627807	84.81996326
									24.38633019	84.8199533
									24.3864398	84.81976964
									24.38653365	84.81965105
									24.38663461	84.81957888
									24.38673416	84.8195881
									24.38707939	84.81925089
									24.38708405	84.81923578
									24.38706902	84.81906552
									24.38710332	84.81893061
9	PO_CH_HG_LJ_07	Lilajan 08 Vill-Sahi, Block-Hunterganj	0.53	Sahi	125	71	368	Hunterganj	24.38573504	84.82023271
									24.38587623	84.82024146
									24.38598457	84.82024712
									24.38606219	84.82020736
									24.38614541	84.82003972
									24.3861667	84.81986466

									24.38617977	84.81976601
									24.38625169	84.81967569
									24.38634625	84.819629S4
									24.38640305	84.81959935
									24.3864423	84.81946152
									24.38651487	84.81928793
									24.38656911	84.81919844
									24.38659223	84.81910305
									24.38659648	84.81896165
									24.38663264	84.81890388
									24.38662744	84.81886961
									24.38635815	84.81913964
									24.3861086	84.81938664
									24.38592483	84.81961692
									24.38576273	84.81984697
									24.38566652	84.82005568
									24.38555955	84.82032976
									24.38573504	84.82023271
10	PO_CH_HG_LJ_08	Lilajan 09 Vill-Sahi, Block-Hunterganj	0.28	Sahi	125	71	368	Hunterganj	24.38536479	84.82109071
									24.38545248	84.82106364
									24.38577848	84.82062896
									24.38580002	84.82053934
									24.38593508	84.82038985
									24.38600882	84.82028842
									24.38585226	84.82031227
									24.38576979	84.82031381
									24.38559324	84.82040179
									24.38546499	84.82053473
									24.38536087	84.82064883
									24.38532466	84.82071903
									24.38532486	84.8208369
									24.38526868	84.82099186
									24.38521217	84.82111386
									24.38536479	84.82109071
11	PO_CH_HG_LJ_10	Lilajan 10 Vill-Sahi, Block-Hunterganj	1.51	Sahi	125	71	369	Hunterganj	24.38496386	84.82146986
									24.3850822	84.82117023
									24.38521397	84.82099343
									24.38523613	84.82083947
									24.38520511	84.82072224
									24.38508685	84.82081096
									24.38466886	84.82139362

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									24.38445112	84.82190344
									24.38436647	84.82215519
									24.38422011	84.82262217
									24.38420905	84.82264384
									24.38406858	84.8231486
									24.38379543	84.82342519
									24.38375001	84.82370069
									24.38387395	84.82389298
									24.38396256	84.82384889
									24.38407545	84.82369922
									24.38424316	84.82349575
									24.38441107	84.8232263
									24.38450845	84.82307
									24.38470142	84.82302152
									24.38481329	84.82288309
									24.38484263	84.82271257
									24.38485512	84.82251281
									24.38490485	84.82234074
									24.38497232	84.82213241
									24.38494892	84.82191439
									24.38487648	84.82176875
									24.38496386	84.82146986
12	PO_CH_HG_LJ_13	Lilajan 12 Vill-Sahi, Block-Hunterganj	6.66	Sahi	139	71	1	Hunterganj	24.38664619	84.81285611
									24.38716729	84.81302743
									24.38782402	84.81314879
									24.38856641	84.81327014
									24.38929453	84.81346287
									24.38993698	84.81351284
									24.39067224	84.81369844
									24.39119334	84.81385549
									24.39121158	84.81390717
									24.39135582	84.81373498
									24.39148238	84.81325942
									24.39155637	84.81260907
									24.39154172	84.81202115
									24.39112986	84.81191736
									24.39044854	84.81195725
									24.38973437	84.81186614
									24.38930375	84.81201083
									24.38871745	84.81209284
									24.38803626	84.81233662
									24.38734425	84.81249519
									24.38662769	84.81284883
									24.38664619	84.81285611

13	PO_CH_HG_LJ_14	Lilajan 13 Vill-Sahi, Block-Hunterganj	10.74	Sahi	125	71	1	Hunterganj	24.37994845	84.80967149
									24.38011394	84.80980846
									24.38032617	84.81017716
									24.38058444	84.8104046
									24.38113575	84.81061215
									24.38159412	84.81081175
									24.38182548	84.81101892
									24.38220163	84.81125514
									24.38271432	84.81151459
									24.38313369	84.81184629
									24.38334719	84.81221872
									24.38384728	84.81240868
									24.38429442	84.81247509
									24.38463506	84.81236903
									24.38505969	84.81201942
									24.38549603	84.81183868
									24.38615885	84.81167228
									24.38679866	84.81154645
									24.38772588	84.81138612
									24.38852525	84.81127128
									24.38856082	84.81125249
									24.38854498	84.81125301
									24.38851425	84.81125399
									24.38844544	84.81125616
									24.38840737	84.81125736
									24.38836939	84.81125098
									24.38832392	84.81124487
									24.38828613	84.81124607
									24.38824835	84.81123975
									24.38816557	84.8112274
									24.38810564	84.81121436
									24.38803099	84.81120937
									24.3879938	84.81120314
									24.38794928	84.81119717
									24.38791228	84.81119843
									24.38786069	84.81118527
									24.38781664	84.81117188
									24.38775818	84.81115901
									24.38770719	84.81114592
									24.3876636	84.81114003
									24.38760558	84.8111273
									24.38754781	84.81110722
									24.38747574	84.81108778
									24.38740387	84.81106848
									24.38734651	84.81104874
									24.38728229	84.81104396

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24.38723247	84.81102405
24.387197	84.81101819
24.38711928	84.81101408
24.38706296	84.81100186
24.38702087	84.81099635
24.3869789	84.81099809
24.38694401	84.81099953
24.3868953	84.8109871
24.38685381	84.81098156
24.38682611	84.81097551
24.38678483	84.81096998
24.38675768	84.81095654
24.38672359	84.81094347
24.38668929	84.8109234
24.38666199	84.81090302
24.38660753	84.81086953
24.38655973	84.81081457
24.38652555	84.81079489
24.38647098	84.8107835
24.38644385	84.81078488
24.38642363	84.81078585
24.38623379	84.8107315
24.38621881	84.81072464
24.38618105	84.81071893
24.38613582	84.8107061
24.38608334	84.81070112
24.38603834	84.81068088
24.38600103	84.81067523
24.38597126	84.81066175
24.38592669	84.81064904
24.38588224	84.81063637
24.38583793	84.81062372
24.38578642	84.81061146
24.38574972	84.81060592
24.38570579	84.81060076
24.38566198	84.81059562
24.38562556	84.81058271
24.38558924	84.81057722
24.38554575	84.81057212
24.38548786	84.81056047
24.38545177	84.81055505
24.38542296	84.81054926
24.38538661	84.81054409
24.38536509	84.81053058
24.38532221	84.81051824
24.38529361	84.81051252
24.3852579	84.81050722
24.38522228	84.81050193
24.38517274	84.81049005
24.38511629	84.81047861

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24.38508813	84.8104729
24.385053	84.81046761
24.38501093	84.81046272
24.38496901	84.81045058
24.38493417	84.81043806
24.38490633	84.81043242
24.38485773	84.81042076
24.3848162	84.81040872
24.38477474	84.81040395
24.38471964	84.81039279
24.38468529	84.81038764
24.38465105	84.8103753
24.38462365	84.81037696
24.38459635	84.81037142
24.38458272	84.81037222
24.38452149	84.81035444
24.38448772	84.81034923
24.38442064	84.81033149
24.38437625	84.81032021
24.3843324	84.81030908
24.38425855	84.81029257
24.38414494	84.8102507
24.38406484	84.81022841
24.38404505	84.81022971
24.38386443	84.81014362
24.38383385	84.8101378
24.38377272	84.81012623
24.38373449	84.81012099
24.383696	84.81011593
24.38364988	84.81010384
24.38358863	84.81009278
24.38353514	84.81007374
24.38349708	84.81006879
24.38346656	84.81006339
24.38341267	84.81004492
24.38337443	84.81004028
24.38334437	84.8100273
24.38330682	84.8100149
24.38325444	84.81001102
24.38323214	84.81001252
24.38317253	84.81000173
24.38312066	84.80999784
24.38309102	84.80999247
24.3830468	84.80998807
24.38301739	84.8099901
24.38298077	84.80999259
24.38293693	84.80999557
24.3828858	84.8099843
24.38282758	84.80998835
24.38276224	84.80998556

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24.3827114	84.80997454
24.38265341	84.8099715
24.38259594	84.80997559
24.38251734	84.8099738
24.38245318	84.80997111
24.38238216	84.80996896
24.38231818	84.80996656
24.38225332	84.80995783
24.3821689	84.80995702
24.38211994	84.80995348
24.38208527	84.80994872
24.38205079	84.80994387
24.38200923	84.80993254
24.38196768	84.80992852
24.3819263	84.80991728
24.38186455	84.80990752
24.38180305	84.80990495
24.38174182	84.80988093
24.38170118	84.80986967
24.38167414	84.80986455
24.38162693	84.80986096
24.38156644	84.80984417
24.38149953	84.8098279
24.38139963	84.80981429
24.38129343	84.80980164
24.38118802	84.80979602
24.38108302	84.80979084
24.38099812	84.80979818
24.38093997	84.80980273
24.38084055	84.80973858
24.38077252	84.80972883
24.38066543	84.80972327
24.38060565	84.80971299
24.38056126	84.80970884
24.38055198	84.80970688
24.38050948	84.80969789
24.38047989	84.80969277
24.38039177	84.80966977
24.3803333	84.80965943
24.38028994	84.80964773
24.38023182	84.80963746
24.38013663	84.80961621
24.38010004	84.80961214
24.38002825	84.80960314
24.37999237	84.80960606
24.37994067	84.80961013
24.37994845	84.80967149

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14	PO_CH_HG_LJ_15	Lilajan 14 Vill-Sahi, Block-Hunterganj	1.9	Sahi	125	71	1	Hunterganj	24.379879	84.81171397
									24.38071419	84.81213514
									24.38134237	84.81236356
									24.38229891	84.81261341
									24.38284857	84.8126491
									24.38298454	84.81265072
									24.38293923	84.81260878
									24.38259733	84.81216967
									24.38219979	84.81180973
									24.38178819	84.81163335
									24.38145203	84.81162885
									24.38104782	84.81161244
									24.380469	84.81162676
									24.37989687	84.81157337
									24.37976759	84.81167596
									24.379879	84.81171397
15	PO_CH_HG_LJ_30	Lilajan 26 Vill-Lohsinghana Kalan, Block-Hunterganj	3.46	Lohsinghana Kalan	144	76	244	Hunterganj	24.34157146	84.79746457
									24.34335606	84.79707196
									24.34467666	84.79742888
									24.34638987	84.79814271
									24.34746991	84.79867313
									24.34744754	84.79862329
									24.3468819	84.79815397
									24.34626298	84.79801449
									24.34587653	84.79779312
									24.34543343	84.79713026
									24.34503573	84.7967792
									24.34467426	84.79648797
									24.34439264	84.79619783
									24.34406567	84.79604987
									24.34366861	84.79609139
									24.34331466	84.79633299
									24.3429886	84.79663206
									24.34265756	84.79689532
									24.34230304	84.79695603
									24.34187823	84.79713848
									24.34154085	84.79741122
									24.34147689	84.79749316
									24.34157146	84.79746457

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16	PO_CH_PR_MH_08	Morhar 06 Vill- Bharhi, Block- Pratappur	0.53	Bharhi	46	96	358	Pratappur	24.37782197	84.56818329
									24.3779885	84.56830364
									24.37816338	84.56842903
									24.37835275	84.5684932
									24.37849535	84.56846625
									24.37860105	84.56841972
									24.37881724	84.56843061
									24.37893311	84.56843699
									24.37910469	84.56839762
									24.37925396	84.56830593
									24.37935473	84.56818712
									24.37948091	84.56801585
									24.37938742	84.56800064
									24.37924324	84.5680259
									24.37912371	84.56804863
									24.37896122	84.56804402
									24.37895711	84.56804453
									24.37874628	84.56811964
									24.3783501	84.56813749
									24.37822483	84.56812411
									24.37817354	84.56812898
									24.37791225	84.5680959
									24.37776649	84.56814149
									24.37782197	84.56818329
17	PO_CH_TD_DA_19	Damodar 23 Vill- Kutki, Block- Tandwa	3.44	Kutki	95	44	727	Tandwa	23.68616808	84.99670123
									23.68675819	84.99618251
									23.68736733	84.99574468
									23.68778136	84.99542584
									23.6882049	84.99509271
									23.68894253	84.99443122
									23.68925186	84.99427894
									23.68966113	84.99413141
									23.69038449	84.9938316
									23.69074617	84.99366504
									23.69123158	84.99352703
									23.69146246	84.99343258
									23.69122665	84.99339446
									23.69102612	84.99328145
									23.69087294	84.99317117
									23.69071061	84.99316538
									23.69046606	84.99321224

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									23.689982	84.99353531
									23.68951891	84.99380976
									23.68907553	84.99401321
									23.68864153	84.9942429
									23.68831097	84.99432774
									23.68800778	84.99436704
									23.68776214	84.99438962
									23.68760969	84.99445296
									23.68742097	84.99461446
									23.68726301	84.99492905
									23.68707565	84.99529724
									23.68673582	84.99574987
									23.68653421	84.9959547
									23.68622676	84.99606026
									23.68605655	84.99616767
									23.68594238	84.99634889
									23.6859819	84.99650551
									23.68595465	84.99673068
									23.68582784	84.99700209
									23.68580604	84.99703914
									23.68616808	84.99670123
18	PO_CH_TD_DA_21	Damodar 25 Vill- Kutki, Block- Tandwa	3.2	Kutki	95	44	727	Tandwa	23.68116136	85.00306291
									23.68124385	85.00300446
									23.68132748	85.00294799
									23.68141223	85.00289351
									23.68149806	85.00284105
									23.68158492	85.00279063
									23.68167277	85.00274229
									23.68176157	85.00269604
									23.68185128	85.0026519
									23.68189074	85.0026336
									23.68202782	85.00216447
									23.68221342	85.00134118
									23.68246564	85.00084149
									23.68270835	85.00013717
									23.6828416	84.99964224
									23.68314617	84.99921394
									23.683344	84.998977
									23.683088	84.99911974
									23.68258963	84.99957492
									23.68215108	85.00005969
									23.68174347	85.0004162
									23.68145433	85.00089777
									23.68123037	85.00142653
									23.68111393	85.0017633

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									23.6810995	85.00210704
									23.68113902	85.00244763
									23.6810775	85.00276658
									23.68104319	85.00306992
									23.68104901	85.00314746
									23.68108008	85.00312329
									23.68116136	85.00306291

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Jharkhand, Ranchi ★ State Level Environment Impact Assessment Authority ★

ANNEXURE-F

(DFO & CO Report)



कार्यालयः— वन प्रमंडल पदाधिकारी, चतरा दक्षिणी वन प्रमंडल।
वन भवन, चतरा— 825401 (झारखण्ड)
Ph. & Fax (o) - 06541- 222303
E-mail:- dfo-chatrasouth@gov.in

पत्रांकः— 803 दिनांकः— 28.03.2023

सेवा में,

जिला खनन् पदाधिकारी,
चतरा।

विषय :— चतरा जिला अन्तर्गत बालू घाट से संबंधित दूरी हेतु प्रतिवेदन उपलब्ध कराने के संबंध में।

प्रसंग :— आपका पत्रांक 262 दिनांक 11.03.2023

महाशय,

उपर्युक्त विषयक प्रसंगाधीन पत्र द्वारा चतरा जिला अन्तर्गत बालू घाट की सूची इस कार्यालय में प्राप्त हुई है, जिसमें इस प्रमंडल के अन्तर्गत प्रभावित अंचल टण्डवा, सिमरिया, मयूरहंड एवं चतरा बालू घाट की सूची की स्थलीय एवं अभिलेखों के अनुसार विहित प्रपत्र में जाँच प्रतिवेदन इस पत्र के साथ संलग्न कर आवश्यक कार्रवाई हेतु भेजी जा रही है।

अनु0—यथोक्त।

विश्वासभाजन

28/3/23

वन प्रमंडल पदाधिकारी,
चतरा दक्षिणी वन प्रमंडल।

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चतरा दक्षिणी वन प्रमंडल।

इस प्रमंडल अन्तर्गत प्राप्त बालू घाट स्थल से वन सीमांकन से दूरी संबंधित विवरणी।

टण्डवा अंचल

क्र0 सं0	गाँव का नाम	थाना संख्या	थाना	खाता संख्या	प्लॉट संख्या	रकबा	अभ्युक्ति
1	2	3	4	5	6	7	8
1	कुटकी	95	टण्डवा	44	716		वन सीमा से सटा हुआ 0मीटर
2	कुटकी	95	टण्डवा	44	727		नोटिफिकेशन प्लॉट संख्या–714 से न्युनतम दूरी 620 मीटर हैं
3	बेती	97	टण्डवा	98	1476		वन सीमा से सटा हुआ 0मीटर
4	बेती	97	टण्डवा	98	716		वन सीमा से सटा हुआ 0मीटर
5	कुटकी	95	टण्डवा	44	716		वन सीमा से सटा हुआ 0मीटर
6	कुटकी	95	टण्डवा	44	716		वन सीमा से सटा हुआ 0मीटर
7	चौड़ा	76	टण्डवा	1	25		वन सीमा से सटा हुआ 0मीटर
8	लरंगा	73	टण्डवा	29	1		वन सीमा से सटा हुआ 0मीटर
9	लरंगा	73	टण्डवा	29	188		प्लॉट संख्या 954 दुन्दुआ से 160 मीटर है।
10	दुन्दुआ	57	टण्डवा	81	867		वन सीमा से सटा हुआ 0मीटर
11	लरंगा	73	टण्डवा	47	794		मान्डर थाना संख्या–71 के चादर से सटता है 0 मीटर
12	लरंगा	73	टण्डवा	29	406		प्लॉट संख्या–801 वन सीमा से सटता है 0मीटर
13	राहम	62	टण्डवा	416	2980		वन सीमा से सटा हुआ 0मीटर
14	राहम	62	टण्डवा	433	2900		वन सीमा से सटा हुआ 0मीटर
15	राहम	62	टण्डवा	433	2900		वन सीमा से सटा हुआ 0मीटर
16	राहम	62	टण्डवा	433	2900		वन सीमा से सटा हुआ 0मीटर
17	राहम	62	टण्डवा	433	2900		वन सीमा से सटा हुआ 0मीटर
18	राहम	62	टण्डवा	416	2980		वन सीमा से सटा हुआ 0मीटर
19	गाड़ीलौंग	59	टण्डवा	161	1		नक्सा उपलब्ध नही है।
20	गाड़ीलौंग	59	टण्डवा	161	1		नक्सा उपलब्ध नही है।
21	गाड़ीलौंग	59	टण्डवा	161	1		नक्सा उपलब्ध नही है।

सिमरिया अंचल

1	तपसा	171	सिमरिया	82	1/661		वन सीमा से सटा हुआ 0मीटर
2	तपसा	171	सिमरिया	82	5/660		वन सीमा से सटा हुआ 0मीटर
3	तपसा	171	सिमरिया	82	600		सर्वे रैयती प्लॉट है नदी नही है।

मयुरहण्ड अंचल

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1	सोकी	218	ईटखोरी	142	328, 329, 6803, 4431		नक्सा उपलब्ध नही है।
2	पेटादेरी	5	ईटखोरी	41	1408		नक्सा उपलब्ध नही है।
3	महुगाई	207	ईटखोरी	24	1247		वन सीमा से सटा हुआ 0मीटर
चतरा अंचल							
1	कठौन	163	चतरा	24	125		वन सीमा से सटा हुआ 0मीटर
2	कठौन	163	चतरा	24	1		वन सीमा से 640 मिटर (नक्सा टुटा हुआ है) अनुमानित
3	कठौन	163	चतरा	24	287		वन सीमा से सटा हुआ 0मीटर
4	कठौन	163	चतरा		125		वन सीमा से सटा हुआ 0मीटर
5	कठौन	163	चतरा		287		वन सीमा से सटा हुआ 0मीटर
6	सिन्दुआरी	166	चतरा	38	1		वन सीमा से सटा हुआ 0मीटर
7	शेरपुर	167	चतरा	56	105		वन सीमा से सटा हुआ 0मीटर (बारीसारम वन से) शेरपुर ग्राम का नक्शा उपलब्ध नहीं है। बारीसारम ग्राम के नक्शा में नदी आधा से सटता है।
8	चेतमा	169	चतरा	21	1		वन सीमा से सटा हुआ 0मीटर
9	लुटू	200	चतरा	48	1		वन सीमा से सटा हुआ 0मीटर

वन प्रमंडल पदाधिकारी
चतरा दक्षिणी वन प्रमंडल।

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कार्यालय–वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, हजारीबाग

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

पत्रांक :– 558 दिनांक :– 20·3·2023

प्रेषक,

वन प्रमण्डल पदाधिकारी,
वन्यप्राणी प्रमण्डल, हजारीबाग।

सेवा में,

जिला खनन पदाधिकारी
चतरा।

विषय :– चतरा जिला का District Survey Report (DSR) Sand के संबंध में।

प्रसंग :– आपका पत्रांक 264/खनन, दिनांक 13.03.2023

महाशय,

उपर्युक्त विषयक प्रसंगाधीन पत्र के संदर्भ में सूचित करना है कि हजारीबाग एवं चतरा जिला अन्तर्गत अवस्थित बालूघाटों के संचालन हेतु प्रस्तावित स्थल /चिन्हित स्थल का .kml file प्रसांगिक पत्र के माध्यम से उपलब्ध कराया गया है, जिसकी विवरणी निम्नवत् है:–

Sl. No	POTENTIAL SANDBAR	GPS Co-ordinats		उपलब्ध कराये गयें .kml file के आधार पर ESZ से संबंधित सूचना
		Latitude	Longitude	
1	PO_CH_PR_MH_01_02	24° 24'28.39"N	84° 34'21.09"E	लावालौंग वन्यप्राणी आश्रयणी के अधिसूचित ESZ सीमा के बाहर अवस्थित है।
2	PO_CH_PR_MH_03	24° 24'18.66"N	84° 34'09.90"E	
3	PO_CH_PR_MH_05	24° 23'44.28"N	84° 33'53.42"E	
4	PO_CH_PR_MH_06	24° 23'13.64"N	84° 33'49.16"E	
5	PO_CH_PR_MH_07	24° 22'56.92"N	84° 34'00.04"E	
6	PO_CH_PR_MH_08	24° 22'47.05"N	84° 34'04.60"E	
7	PO_CH_PR_MH_11	24° 22'09.75"N	84° 34'07.66"E	
8	PO_CH_PR_MH_12	24° 21'54.44"N	84° 34'07.97"E	
9	PO_CH_PR_MH_13	24° 21'51.32"N	84° 34'11.64"E	
10	PO_CH_PR_MH_14	24° 21'47.65"N	84° 34'11.73"E	
11	PO_CH_PR_MH_15	24° 21'40.38"N	84° 34'15.86"E	
12	PO_CH_PR_MH_15A	24° 21'37.44"N	84° 34'17.29"E	
13	PO_CH_PR_MH_16	24° 21'32.87"N	84° 34'15.54"E	
14	PO_CH_PR_MH_18A	24° 21'01.13"N	84° 34'12.78"E	
15	PO_CH_PR_MH_19_20	24° 20'53.72"N	84° 34'03.84"E	
16	PO_CH_PR_MH_25	24° 20'07.09"N	84° 34'12.77"E	
17	PO_CH_PR_MH_26_27	24° 19'51.76"N	84° 34'19.11"E	
18	PO_CH_PR_MH_29	24° 19'43.99"N	84° 34'29.81"E	
19	PO_CH_PR_MH_33	24° 19'33.32"N	84° 34'47.19"E	
20	PO_CH_PR_MH_34	24° 18'50.21"N	84° 35'06.91"E	
21	PO_CH_PR_MH_36	24° 18'28.53"N	84° 35'0066"E	
22	PO_CH_PR_MH_41	24° 22'17.87"N	84° 31'43.52"E	
23	PO_CH_PR_MH_43	24° 21'57.84"N	84° 31'43.52"E	
24	PO_CH_PR_MH_45	24° 21'57.84"N	84° 31'58.69"E	
25	PO_CH_PR_MH_49	24° 21'18.05"N	84° 34'42.40"E	
26	PO_CH_PR_MH_51	24° 19'30.17"N	84° 31'12.26"E	
27	PO_CH_PR_MH_51A	24° 18'19.77"N	84° 30'32.71"E	
28	PO_CH_PR_MH_54	24° 17'54.72"N	84° 30'32.68"E	

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29	PO_CH_PR_MH_60	24° 16'47.21"N	84° 30'18.12"E		लावालोंग वन्यप्राणी आश्रयणी के अधिसूचित ESZ सीमा के बाहर अवस्थित है।
30	PO_CH_PR_MH_62	24° 16'10.41"N	84° 31'21.51"E		
31	PO_CH_PR_MH_64	24° 16'04.44"N	84° 31'30.90"E		
32	PO_CH_PR_MH_65	24° 15'37.03"N	84° 32'11.19"E		
33	PO_CH_PR_MH_66	24° 15'40.43"N	84° 32'41.86"E		
34	PO_CH_PR_MH_67	24° 15'26.07"N	84° 33'27.45"E		
35	PO_CH_PR_MH_69	24° 15'27.08"N	84° 33'44.87"E		
36	PO_CH_PR_MH_70	24° 15'16.65"N	84° 34'11.62"E		
37	PO_CH_PR_MH_71	24° 15'08.12"N	84° 34'24.94"E		
38	PO_CH_PR_MH_72	24° 14'47.60"N	84° 34'28.70"E		
39	PO_CH_KD_MH_73	24° 14'35.07"N	84° 34'30.36"E		
40	PO_CH_KD_MH_74A	24° 14'14.71"N	84° 34'25.92"E		
41	PO_CH_KD_MH_74B	24° 13'38.88"N	84° 34'23.24"E		
42	PO_CH_KD_MH_74C	24° 13'35.31"N	84° 34'23.34"E		
43	PO_CH_KD_MH_74D	24° 13'25.32"N	84° 34'52.94"E		
44	PO_CH_KD_MH_74E	24° 13'20.01"N	84° 35'00.83"E		
45	PO_CH_KC_MA_01	24° 19'27.28"N	85° 06'10.20"E		गौतमबुद्धा वन्यप्राणी आश्रयणी के अधिसूचित ESZ सीमा के अन्दर अवस्थित है।
46	PO_CH_IK_MA_02	24° 19'02.77"N	85° 06'19.43"E		
47	PO_CH_IK_MA_03_04_05	24° 19'01.26"N	85° 06'41.83"E		
48	PO_CH_IK_MA_06	24° 18'47.18"N	85° 06'57.60"E		
49	PO_CH_IK_MA_07	24° 18'40.12"N	85° 07'07.30"E		
50	PO_CH_IK_MA_08	24° 18'44.27"N	85° 07'54.48"E		
51	PO_CH_IK_MA_09	24° 18'35.98"N	85° 08'06.27"E		
52	PO_CH_IK_MA_10	24° 17'57.28"N	85° 08'41.13"E		हजारीबाग एवं गौतमबुद्धा वन्यप्राणी आश्रयणी के अधिसूचित ESZ सीमा के बाहर अवस्थित है।
53	PO_CH_IK_MA_13	24° 17'23.94"N	85° 08'24.69"E		
54	PO_CH_IK_MA_14_15	24° 17'22.09"N	85° 08'35.29"E		
55	PO_CH_IK_MA_19	24° 16'53.57"N	85° 08'33.94"E		
56	PO_CH_IK_MA_19A	24° 16'50.88"N	85° 08'32.09"E		
57	PO_CH_IK_MA_20_21	24° 16'30.14"N	85° 08'11.52"E		
58	PO_CH_IK_MA_21A	24° 16'21.62"N	85° 08'04.65"E		
59	PO_CH_IK_MA_22	24° 16'11.45"N	85° 07'47.83"E		
60	PO_CH_IK_MA_22A	24° 16'08.15"N	85° 07'48.24"E		
61	PO_CH_IK_MA_24	24° 15'45.8"N	85° 07'31.14"E		
62	PO_CH_IK_MA_24A	24° 15'36.27"N	85° 07'26.37"E		
63	PO_CH_IK_MA_24B	24° 15'31.33"N	85° 07'39.72"E		
64	PO_CH_IK_MA_24C	24° 15'26.19"N	85° 07'39.82"E		
65	PO_CH_IK_MA_25	24° 15'16.28"N	85° 07'40.65"E		
66	PO_CH_IK_MA_26_27	24° 15'07.76"N	85° 07'44.80"E		
67	PO_CH_IK_MA_27A	24° 15'02.75"N	85° 07'47.10"E		
68	PO_CH_IK_MA_27B	24° 14'59.58"N	85° 07'47.96"E		
69	PO_CH_IK_MA_28	24° 14'52.26"N	85° 07'49.49"E		
70	PO_CH_IK_MA_29	24° 14'41.20"N	85° 07'49.76"E		
71	PO_CH_IK_MA_30	24° 14'27.98"N	85° 07'45.80"E		
72	PO_CH_GD_MA_31	24° 14'12.06"N	85° 07'36.35"E		
73	PO_CH_GD_MA_32	24° 14'06.08"N	85° 07'48.94"E		
74	PO_CH_GD_MA_33	24° 13'57.56"N	85° 07'56.02"E		

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75	PO_CH_GD_MA_34	24° 13'52.25"N	85° 07'53.96"E	हजारीबाग एवं गौतमबुद्धा वन्यप्राणी आश्रयणी के अधिसूचित ESZ सीमा के बाहर अवस्थित है।
76	PO_CH_GD_MA_35	24° 13'45.28"N	85° 07'47.62"E	
77	PO_CH_GD_MA_36	24° 13'43.11"N	85° 07'58.85"E	
78	PO_CH_GD_MA_37	24° 13'31.35"N	85° 07'56.29"E	
79	PO_CH_GD_MA_38	24° 13'29.27"N	85° 07'55.54"E	
80	PO_CH_GD_MA_43	24° 07'44.38"N	85° 09'26.18"E	
81	PO_CH_GD_MA_44	24° 07'45.74"N	85° 09'05.07"E	
82	PO_CH_PG_MA_46	24° 07'34.63"N	85° 08'08.24"E	
83	PO_CH_PG_MA_47	24° 07'32.29"N	85° 08'06.83"E	
84	PO_CH_PG_MA_48	24° 07'26.57"N	85° 07'53.19"E	
85	PO_CH_PG_MA_50	24° 07'27.23"N	85° 07'24.20"E	
86	PO_CH_PG_MA_51	24° 07'32.99"N	85° 07'10.18"E	
87	PO_CH_PG_MA_53	24° 07'29.60"N	85° 06'56.86"E	
88	PO_CH_PG_MA_54	24° 07'12.74"N	85° 06'14.10"E	
89	PO_CH_PG_MA_55	24° 07'12.86"N	85° 05'02.55"E	
90	PO_CH_PG_MA_56	24° 06'22.99"N	85° 03'22.99"E	
91	PO_CH_PG_MA_57	24° 06'18.22"N	85° 03'20.67"E	
92	PO_CH_PG_MA_58	24° 06'70.00"N	85° 02'45.11"E	
93	PO_CH_PG_MA_59	24° 06'12.39"N	85° 02'40.36"E	
94	PO_CH_PG_MA_60	24° 05'48.76"N	85° 03'44.84"E	
95	PO_CH_PG_MA_61	24° 05'44.74"N	85° 03'48.30"E	
96	PO_CH_PG_MA_61A	24° 05'38.79"N	85° 03'59.45"E	
97	PO_CH_SR_MA_61B	24° 05'34.00"N	85° 04'00.41"E	
98	PO_CH_SR_MA_62	24° 05'16.04"N	85° 04'02.74"E	
99	PO_CH_SR_MA_63	24° 05'09.35"N	85° 04'02.83"E	
100	PO_CH_PG_MA_64	24° 06'20.11"N	85° 07'56.61"E	
101	PO_CH_PG_MA_65	24° 06'03.27"N	85° 08'20.57"E	
102	PO_CH_PG_MA_66	24° 05'58.37"N	85° 08'24.32"E	
103	PO_CH_PG_MA_67	24° 05'44.82"N	85° 08'02.69"E	
104	PO_CH_PG_MA_68	24° 05'52.09"N	85° 08'08.29"E	
105	PO_CH_PG_MA_69	24° 04'57.67"N	85° 08'11.50"E	
106	PO_CH_PG_MA_70	24° 04'46.15"N	85° 08'08.67"E	
107	PO_CH_PG_MA_73	24° 04'35.45"N	85° 08'19.14"E	
108	PO_CH_PG_MA_74	24° 04'26.83"N	85° 08'30.96"E	
109	PO_CH_PG_MA_76	24° 04'18.08"N	85° 08'20.40"E	
110	PO_CH_PG_MA_79	24° 03'49.85"N	85° 07'39.36"E	
111	PO_CH_HG_LJ_1A	24° 26'23.64"N	84° 49'37.03"E	लोवालौंग वन्यप्राणी आश्रयणी के अधिसूचित ESZ सीमा के बाहर अवस्थित है।
112	PO_CH_HG_LJ_01	24° 27'31.07"N	84° 52'12.37"E	
113	PO_CH_HG_LJ_02	24° 27'12.64"N	84° 51'02.49"E	
114	PO_CH_HG_LJ_03	24° 26'19.18"N	84° 49'20.00"E	
115	PO_CH_HG_LJ_04	24° 25'21.55"N	84° 48'46.35"E	
116	PO_CH_HG_LJ_05	24° 23'20.60"N	84° 49'02.42"E	
117	PO_CH_HG_LJ_06	24° 23'13.57"N	84° 49'07.4"E	
118	PO_CH_HG_LJ_07	24° 23'09.56"N	84° 49'11.30"E	
119	PO_CH_HG_LJ_08	24° 23'08.04"N	84° 49'14.59"E	
120	PO_CH_HG_LJ_10	24° 23'04.86"N	84° 49'19.76"E	

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121	PO_CH_HG_LJ_11	24° 22'56.57"N	84° 49'30.48"E		लावालौंग वन्यप्राणी आश्रयणी के अधिसूचित ESZ सीमा के बाहर अवस्थित है।
122	PO_CH_HG_LJ_13	24° 23'23.15"N	84° 48'45.53"E		
123	PO_CH_HG_LJ_14	24° 23'02.11"N	84° 48'39.48"E		
124	PO_CH_HG_LJ_15	24° 22'54.04"N	84° 48'43.60"E		
125	PO_CH_HG_LJ_16	24° 22'13.16"N	84° 48'29.91"E		
126	PO_CH_HG_LJ_17	24° 22'18.63"N	84° 49'57.01"E		
127	PO_CH_HG_LJ_12	24° 21'43.20"N	84° 47'54.53"E		
128	PO_CH_HG_LJ_17A	24° 21'09.49"N	84° 48'00.48"E		
129	PO_CH_HG_LJ_19	24° 22'24.73"N	84° 48'30.59"E		
130	PO_CH_HG_LJ_20	24° 20'50.57"N	84° 47'49.47"E		
131	PO_CH_HG_LJ_30	24° 20'40.75"N	84° 47'49.50"E		
132	PO_CH_HG_LJ_24			.kml file अप्राप्त है।	
133	PO_CH_HG_LJ_26			.kml file अप्राप्त है।	
134	PO_CH_HG_LJ_27			.kml file अप्राप्त है।	
135	PO_CH_PR_LJ_29			.kml file अप्राप्त है।	
136	PO_CH_HG_LJ_23			.kml file अप्राप्त है।	
137	PO_CH_HG_LJ_31	24° 20'16.78"N	84° 47'49.99"E		लावालौंग वन्यप्राणी आश्रयणी के अधिसूचित ESZ सीमा के बाहर अवस्थित है।
138	PO_CH_HG_LJ_32	24° 19'55.98"N	84° 47'37.44"E		
139	PO_CH_HG_LJ_33	24° 19'48.56"N	84° 47'28.79"E		
140	PO_CH_HG_LJ_36	24° 19'0.10"N	84° 47'20.74"E		
141	PO_CH_HG_LJ_37	24° 18'28.39"N	84° 47'24.73"E		
142	PO_CH_CH_LJ_38	24° 17'32.39"N	84° 47'16.23"E		
143	PO_CH_CH_LJ_40	24° 17'02.23"N	84° 47'04.40"E		
144	PO_CH_CH_LJ_41	24° 16'54.77"N	84° 47'15.47"E		
145	PO_CH_CH_LJ_43	24° 16'31.45"N	84° 47'14.58"E		
146	PO_CH_CH_LJ_43A	24° 15'58.52"N	84° 46'58.54"E		
147	PO_CH_CH_LJ_44	24° 15'18.27"N	84° 47'17.30"E		
148	PO_CH_CH_LJ_47	24° 12'09.90"N	84° 47'58.98"E		लावालौंग वन्यप्राणी आश्रयणी के अधिसूचित ESZ सीमा के **अन्दर अवस्थित है।**
149	PO_CH_HG_LJ_52A	24° 17'23.21"N	84° 48'12.75"E		लावालौंग वन्यप्राणी आश्रयणी के अधिसूचित ESZ सीमा के बाहर अवस्थित है।
150	PO_CH_CH_LJ_56	24° 16'44.61"N	84° 49'44.30"E		
151	PO_CH_CH_LJ_56A	24° 16'57.48"N	84° 49'59.07"E		
152	PO_CH_CH_LJ_57_58	24° 17'08.90"N	84° 50'12.49"E		
153	PO_CH_CH_LJ_59	24° 17'15.43"N	84° 50'23.82"E		
154	PO_CH_KC_GH_09	24° 18'40.49"N	85° 05'17.03"E		हजारीबाग वन्यप्राणी आश्रयणी के अधिसूचित ESZ सीमा के बाहर अवस्थित है।
155	PO_CH_KC_GH_10	24° 18'14.80"N	85° 05'08.65"E		
156	PO_CH_KC_GH_10A	24° 18'15.90"N	85° 05'02.86"E		
157	PO_CH_KC_GH_10B	24° 18'17.13"N	85° 05'57.53"E		
158	PO_CH_KC_GH_11	24° 18'12.80"N	85° 04'45.45"E		
159	PO_CH_KC_GH_12	24° 18'01.30"N	85° 04'57.99"E		
160	PO_CH_KC_GH_13	24° 17'48.10"N	85° 05'10.29"E		
161	PO_CH_KC_GH_14A	24° 17'44.93"N	85° 05'14.83"E		
162	PO_CH_KC_GH_14B	24° 17'48.48"N	85° 05'15.27"E		
163	PO_CH_KC_GH_14C	24° 17'53.42"N	85° 05'28.26"E		
164	PO_CH_KC_GH_14D	24° 17'50.63"N	85° 05'29.20"E		

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165	PO_CH_KC_GH_15	24° 17'45.46"N	85° 05'28.05"E		हजारीबाग वन्यप्राणी आश्रयणी के अधिसूचित ESZ सीमा के बाहर अवस्थित है।
166	PO_CH_KC_GH_15A	24° 17'41.26"N	85° 05'22.33"E		
167	PO_CH_KC_GH_16	24° 17'36.72"N	85° 05'20.47"E		
168	PO_CH_KC_GH_17	24° 17'29.71"N	85° 05'18.83"E		
169	PO_CH_KC_GH_18	24° 17'23.15"N	85° 05'23.40"E		
170	PO_CH_KC_GH_19	24° 17'17.77"N	85° 05'17.04"E		
171	PO_CH_KC_GH_20A	24° 17'11.94"N	85° 05'05.06"E		
172	PO_CH_KC_GH_20B	24° 17'07.25"N	85° 05'06.37"E		
173	PO_CH_KC_GH_20C	24° 17'01.11"N	85° 05'11.66"E		
174	PO_CH_KC_GH_21A	24° 16'54.20"N	85° 05'03.66"E		
175	PO_CH_KC_GH_22	24° 16'44.43"N	85° 04'45.82"E		
176	PO_CH_KC_GH_22A	24° 16'45.65"N	85° 04'40.66"E		
177	PO_CH_KC_GH_22B	24° 16'44.94"N	85° 04'33.24"E		
178	PO_CH_KC_GH_22E	24° 16'32.29"N	85° 04'41.73"E		
179	PO_CH_GD_GH_22G	24° 16'11.79"N	85° 04'51.29"E		
180	PO_CH_GD_GH_22I	24° 16'01.00"N	85° 04'47.71"E		
181	PO_CH_GD_GH_23	24° 15'12.06"N	85° 04'24.41"E		
182	PO_CH_GD_GH_24	24° 15'08.81"N	85° 04'13.40"E		
183	PO_CH_GD_GH_26	24° 14'54.22"N	85° 04'14.82"E		
184	PO_CH_GD_GH_27	24° 14'46.20"N	85° 04'16.71"E		
185	PO_CH_GD_GH_28	24° 14'33.61"N	85° 04'16.76"E		
186	PO_CH_GD_GH_29	24° 14'16.90"N	85° 03'48.40"E		
187	PO_CH_GD_GH_30	24° 13'41.69"N	85° 03'59.60"E		
188	PO_CH_GD_GH_31	24° 13'25.62"N	85° 03'56.53"E		
189	PO_CH_GD_GH_32	24° 13'10.76"N	85° 04'10.39"E		
190	PO_CH_GD_GH_33	24° 12'58.31"N	85° 04'11.37"E		
191	PO_CH_GD_GH_34	24° 12'52.03"N	85° 04'08.79"E		
192	PO_CH_GD_GH_36	24° 11'52.58"N	85° 03'33.53"E		
193	PO_CH_GD_GH_37	24° 11'22.49"N	85° 03'01.27"E		
194	PO_CH_GD_GH_38	24° 10'15.56"N	85° 03'70.06"E		
195	PO_CH_KC_GH_39			.kml file अप्राप्त है।	
196	PO_CH_KC_GH_40			.kml file अप्राप्त है।	
197	PO_CH_KC_GH_40A			.kml file अप्राप्त है।	
198	PO_CH_KC_GH_40C			.kml file अप्राप्त है।	

अतः आपके सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

नोटः— 1. माननीय सर्वोच्च न्यायालय के विभिन्न वादों में पारित न्यायादेश में आदेशित किया गया है कि Protected Area और उसके संरक्षित ESZ एवं Protected Area से 01 कि0मी0 की दूरी जो भी अधिकतम हो के अन्तर्गत किसी भी प्रकार का खनन गतिविधि वर्जित है।

2. हजारीबाग, लावालौंग एवं गौतमबुद्धा वन्यप्राणी आश्रयणी एवं ESZ के अन्तर्गत अवस्थित गाँवो में सुनिश्चित किया जाय कि उक्त क्षेत्रों में किसी भी प्रकार की खनन गतिविधि वर्जित है।

3. इसमें किसी प्रकार का टंकणीय भूल होगी तो उसका सुधार अपेक्षित होगा।

विश्वासभाजन

20/03/2023

वन प्रमण्डल पदाधिकारी,
वन्यप्राणी प्रमण्डल, हजारीबाग

कार्यालयः— वन प्रमंडल पदाधिकारी, चतरा दक्षिणी वन प्रमंडल।
वन भवन, चतरा— 825401 (झारखण्ड)
Ph. & Fax (o) - 06541- 222303
E-mail:- dfo-chatrasouth@gov.in

पत्रांक 780 दिनांक 25/3/23

सेवा में,

जिला खनन पदाधिकारी,
चतरा।

विषय— चतरा जिला का District Survey Report (DSR) बालू घाट से वन सीमांकन की दूरी के संबंध में।

प्रसंग— आपका पत्रांक 264 दिनांक 13.03.2023

महाशय,

उपर्युक्त विषयक प्रसांगिक पत्र के सन्दर्भ में सूचित करना है कि चतरा जिला अन्तर्गत प्रभावित अंचल ईटखोरी, गिद्धौर, पत्थलगडा, सिमरिया, लावालौंग में बालू घाट हेतु अंचलाधिकारी द्वारा चिन्हित स्थलों की मौजावार खाता, प्लॉट सहित प्राप्त सूची के अनुसार वन सीमा से दूरी उपलब्ध कराने हेतु अनुरोध किया गया है। प्राप्त सूचियों को प्रमंडलीय अभिलेख के कैड्रस्टल मैप एवं संबंधित वन क्षेत्र पदाधिकारियों द्वारा प्राप्त प्रतिवेदन के आधार पर सूची के अनुसार चिन्हित स्थल का वन सीमा से दूरी विहित प्रपत्र में इस पत्र के साथ संलग्न कर आवश्यक कार्रवाई हेतु भेजी जा रही है।

अनु0—यथोक्त।

विश्वासभाजन

25/3/23

वन प्रमंडल पदाधिकारी,
चतरा दक्षिणी वन प्रमंडल।

चतरा दक्षिणी वन प्रमंडल।

इस प्रमंडल अन्तर्गत प्राप्त बालू घाट स्थल से वन सीमांकन से दूरी संबंधित विवरणी।

क्र0 सं0	प्रक्षेत्र का नाम	प्रखण्ड	मौजा	थाना / थाना संख्या	खाता संख्या	प्लॉट संख्या	रकबा (एकड़ में)	नदी का नाम	प्रस्तावित स्थल से निकटतम वनसीमा की दूरी (मी0 में)	अभ्युक्ति
1	2	3	4	5	6	7	8	9		10
1	लावालौंग	लावालौंग	हेडुम	सिमरिया / 51	110	812	24	मानत नदी	–	उक्त स्थल वन्यप्राणी आश्रणी प्रक्षेत्र अन्तर्गत पड़ता है।
2	लावालौंग	लावालौंग	करमा	सिमरिया / 77	54	671	3.41	राईज दहा नदी	0	
3	लावालौंग	लावालौंग	करमा	सिमरिया / 54	54	681	0.69	राईज दहा नदी	0	
4	लावालौंग	ईटखोरी	ईटखोरी	ईटखोरी / 45	13	1	1.24			उक्त मौजा में वनभूमि नही है।
5	लावालौंग	ईटखोरी	ईटखोरी	ईटखोरी / 45	13	1	1.83			
6	लावालौंग	ईटखोरी	ईटखोरी	ईटखोरी / 45	13	1	4.57			
7	लावालौंग	ईटखोरी	ईटखोरी	ईटखोरी / 45	162	522	2.76			
8	लावालौंग	ईटखोरी	ईटखोरी	ईटखोरी / 45	162	521	1.45			
9	लावालौंग	ईटखोरी	ईटखोरी	ईटखोरी / 45	13	560	1.07			
10	लावालौंग	ईटखोरी	ईटखोरी	ईटखोरी / 45	13	1	2.84			
11	लावालौंग	ईटखोरी	कटुआ	ईटखोरी / 39	26	168	0.25		0	
12	लावालौंग	ईटखोरी	पृथ्वीपूर	ईटखोरी / 266	19	18	2.63			उक्त मौजा लावालौंग प्रक्षेत्र अन्तर्गत नही है।
13	लावालौंग	ईटखोरी	पृथ्वीपूर	ईटखोरी / 266	19	18	0.22			
14	लावालौंग	ईटखोरी	पृथ्वीपूर	ईटखोरी / 266	19	90	0.9			
15	लावालौंग	ईटखोरी	टोनाटाँड़	ईटखोरी / 266	19	1	1.15		0	
16	लावालौंग	ईटखोरी	टोनाटाँड़	ईटखोरी / 106	45	1	0.65		0	
17	लावालौंग	ईटखोरी	टोनाटाँड़	ईटखोरी / 106	45	1	0.63		0	
18	लावालौंग	ईटखोरी	टोनाटाँड़	ईटखोरी / 106	45	98	0.95		0	

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19	लावालौंग	ईटखोरी	टोनाटाँड़	ईटखोरी / 106	45	98	2.02		0	
20	लावालौंग	ईटखोरी	टोनाटाँड़	ईटखोरी / 106	45	98	0.53		0	
21	लावालौंग	ईटखोरी	नगवाँ	ईटखोरी / 104	7	98	0.25		0	
22	लावालौंग	ईटखोरी	नगवाँ	ईटखोरी / 104	7	539	1.94		0	
23	लावालौंग	ईटखोरी	नगवाँ	ईटखोरी / 104	7	539	0.28		0	
24	लावालौंग	ईटखोरी	नगवाँ	ईटखोरी / 104	7	2349	1.75		0	
25	लावालौंग	ईटखोरी	नगवाँ	ईटखोरी / 104	7	2349	0.54		0	
26	लावालौंग	ईटखोरी	भदुली	ईटखोरी / 263	7	2	0.79			उक्त मौज लावालौंग प्रक्षेत्र अन्तर्गत नही है।
27	लावालौंग	ईटखोरी	भदुली	ईटखोरी / 263	7	2	0.99			
28	लावालौंग	ईटखोरी	भदुली	ईटखोरी / 263	7	3	4.49			
29	लावालौंग	ईटखोरी	भदुली	ईटखोरी / 263	7	37	1.54			
30	पिरी	पत्थलगडा	खैरा	सिमरिया / 175	51	1645	1.64		0	
31	पिरी	पत्थलगडा	खैरा	सिमरिया / 175	51	1645	0.85		0	
32	पिरी	पत्थलगडा	खैरा	सिमरिया / 175	51	1645	0.56		0	
33	पिरी	पत्थलगडा	खैरा	सिमरिया / 175	51	1645	1.45		0	
34	पिरी	पत्थलगडा	खैरा	सिमरिया / 175	53	1	0.6		0	
35	पिरी	पत्थलगडा	खैरा	सिमरिया / 175	53	1	0.31		0	
36	पिरी	पत्थलगडा	खैरा	सिमरिया / 175	53	1	0.68		0	
37	पिरी	पत्थलगडा	खैरा	सिमरिया / 175	53	1	0.45		0	
38	पिरी	पत्थलगडा	सायल	सिमरिया / 181	15	1	2.15		0	
39	पिरी	पत्थलगडा	सायल	सिमरिया / 181	16	1	0.45		0	
40	पिरी	पत्थलगडा	सायल	सिमरिया / 181	16	1	0.4		0	
41	पिरी	पत्थलगडा	सायल	सिमरिया / 181	16	1	0.79		0	
42	पिरी	पत्थलगडा	मेरमगड़ा	सिमरिया / 183	14	328, 329	0.51		0	
43	पिरी	पत्थलगडा	मेरमगड़ा	सिमरिया / 183	14	328, 330	0.57		0	
44	चतरा	पत्थलगडा	नूनगाँव	गिद्धौर / 47	119	713, 651	1.45		0	

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45	चतरा	पत्थलगडा	नूनगाँव	गिद्धौर/47	119	718, 651	4.22		0	
46	चतरा	पत्थलगडा	सिंघानी	गिद्धौर/60	171	2031, 1535	0.44		0	
47	चतरा	पत्थलगडा	सिंघानी	गिद्धौर/60	171	2031, 1535	0.43		0	
48	चतरा	पत्थलगडा	तेतरिया	गिद्धौर/66	136	926, 927, 299	0.47		0	
49	चतरा	पत्थलगडा	दुम्बी	गिद्धौर/55	104	1026	0.3		0	
50	चतरा	पत्थलगडा	दुम्बी	गिद्धौर/55	104	1026	0.31		0	
51	चतरा	पत्थलगडा	बेलहर	गिद्धौर/54	111	1572	0.18		0	
52	चतरा	पत्थलगडा	बेलहर	गिद्धौर/54	111	1572	0.47		0	
53	चतरा	पत्थलगडा	बरवाडीह	गिद्धौर/56	140	867	0.47		0	
54	चतरा	पत्थलगडा	बरवाडीह	गिद्धौर/56	140	867	0.31		0	
55	चतरा	पत्थलगडा	सिंघानी	गिद्धौर/60	171	2031	0.26		0	
56	चतरा	पत्थलगडा	तेतरिया	गिद्धौर/66	136	926, 927, 299	1.16		0	
57	चतरा	गिद्धौर	जोकाही	गिद्धौर/69	1	129	0.8		0	
58	चतरा	गिद्धौर	जोकाही	गिद्धौर/69	1	129	0.71		0	
59	चतरा	गिद्धौर	मंझगावाँ	गिद्धौर/12	70	757	0.82		0	
60	चतरा	गिद्धौर	मंझगावाँ	गिद्धौर/12	70	757	1.18		0	
61	चतरा	गिद्धौर	मंझगावाँ	गिद्धौर/12	70	757	0.59		0	
62	चतरा	गिद्धौर	मंझगावाँ	गिद्धौर/12	70	757	0.44		0	
63	चतरा	गिद्धौर	मंझगावाँ	गिद्धौर/12	64	986	0.9		400	
64	चतरा	गिद्धौर	मंझगावाँ	गिद्धौर/12	64	371	0.58		0	
65	चतरा	गिद्धौर	मंझगावाँ	गिद्धौर/12	16	371	0.77		0	
66	चतरा	गिद्धौर	सिन्दुआरीखूर्द	गिद्धौर/13	46	591	0.57		0	

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67	चतरा	गिद्धौर	सिन्दुआरीकला	गिद्धौर/28	79	591	0.29		0	उक्त भूमि रैयती प्लॉट है।
68	चतरा	गिद्धौर	सिन्दुआरीकला	गिद्धौर/28	79	852	0.68		0	
69	चतरा	गिद्धौर	सिन्दुआरीकला	गिद्धौर/28	79	852	0.42		0	
70	चतरा	गिद्धौर	कटघरा	गिद्धौर/27	15	120	0.27		0	
71	चतरा	गिद्धौर	कटघरा	गिद्धौर/27	15	120	0.37		0	
72	चतरा	गिद्धौर	रोहमर	गिद्धौर/43	5	4	0.31		0	
73	चतरा	गिद्धौर	ओबराडीह	गिद्धौर/70	1	77	1.92		0	
74	चतरा	गिद्धौर	ओबराडीह	गिद्धौर/70	1	77	0.46		0	
75	चतरा	गिद्धौर	ओबराडीह	गिद्धौर/70	1	48	0.66		0	
76	चतरा	गिद्धौर	दुआरी	गिद्धौर/71	186	4523	3.93		0	
77	चतरा	गिद्धौर	दुआरी	गिद्धौर/71	186	4523	1.98		0	

वन प्रमंडल पदाधिकारी
चतरा दक्षिणी वन प्रमंडल।

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कार्यालय :– वन प्रमण्डल पदाधिकारी, चतरा उत्तरी वन प्रमण्डल।
E-mail Address : dfo-chatranorth@gov.in, Phone No. : 06541-296022

पत्रांक : 751 दिनांक : 27/03/2023

सेवा में,

जिला खनन पदाधिकारी,
चतरा।

विषय :– चतरा जिला का District Survey Report (DSR) Sand के संबंध में।

प्रसंगः– आपका पत्रांक 262 दिनांक 11.03.2023 एवं 264 दिनांक 13.03.2023

महाशय,

उपरोक्त विषयक प्रासंगिक पत्र के सम्बंध में सूचित करना है कि बालूघाटों के संचालन हेतु बालूघाटों की सूची, Co-Ordinates एवं Kml के साथ इस प्रमंडल को उपलब्ध कराया गया है, जिसमें चतरा उत्तरी वन प्रमंडल के क्षेत्राधीन कुल 105 बालूघाटों की जांच कर जांच प्रतिवेदन प्राप्त विहित प्रपत्र में इस पत्र के साथ सलंग्न कर भेजा जा रहा है। यह जांच प्रतिवेदन अस्थायी तौर पर दिया जा रहा है, चूँकि प्रस्तावित बालूघाट इकाई से वनभूमि की दूरी प्रमाण पत्र हेतु झारखण्ड सरकार द्वारा लागू सिंगल विंडो सिस्टम (https://advantage.jharkhand.gov.in/SingleWindow/) पर ऑनलाईन आवेदन करने के उपरांत ही स्थायी अथवा वनभूमि से दूरी प्रमाण पत्र निर्गत किया जा सकेगा। इसके बाद ही बालू उत्खनन शुरू किया जा सकता है। (G.M.J.J.) गैर मजरूआ जंगल झाड़ी/जंगल (Deemed Forest) हेतु संबंधित अंचल अधिकारी से सम्पर्क कर अग्रेतर कार्रवाई करें।

सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

अनु0:– यथोक्त।

विश्वासभाजन

वन प्रमंडल पदाधिकारी,
चतरा उत्तरी वन प्रमंडल।
27/03/2023

State Level Environment Impact Assessment Authority * Jharkhand, Ranchi *
Approved

HUNTERGANJ RANGE

Sl. No	POTENTIAL SANDBAR	AREA Ha.	Distance in Km from PA/BR/ WC	Distance from forest Area (in Meter)	Mining Lease within 500 meters (if Yes Cluster Area)	Depth in meter	Bulk Density	Geological in CUM considering digging depth max As 1 meters	Geological in Tonnes/ Annum	60 % of Geological Total excavation in Tonnes /Annum	Proposed	Thana No	Khata No.	Khasra No.	Potentials Details, Village PO, Block
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	PO_CH_HG_LJ_1A	24.7		More than 250	NO	1	1.58	247000	390260	234156	Proposed	91	1	76	Uraili
2	PO_CH_HG_LJ_01	19.26		More than 250	NO	1	1.58	192600	304308	182584.8	Proposed	103	1	1	Pandri kala
3	PO_CH_HG_LJ_02	9.56		More than 250	Yes, Area:14.49 Ha.	1	1.58	95600	151048	90628.8	Proposed	87	25	1	Garh Kedli
4	PO_CH_HG_LJ_03	4.93		More than 250		1	1.58	49300	77894	46736.4	Proposed	43	52	275	Nawadih
5	PO_CH_HG_LJ_04	46.54		More than 250	NO	1	1.58	465400	735332	441199.2	Proposed	85	127	1,400	Kedli Kalan
6	PO_CH_HG_LJ_05	0.37		More than 250		1	1.58	3700	5846	3507.6	Proposed	125	71	368	Sahi
7	PO_CH_HG_LJ_06	1.02		More than 250		1	1.58	10200	16116	9669.6	Proposed	125	71	368	Sahi
8	PO_CH_HG_LJ_07	0.53		More than 250		1	1.58	5300	8374	5024.4	Proposed	125	71	368	Sahi
9	PO_CH_HG_LJ_08	0.28		More than 250		1	1.58	2800	4424	2654.4	Proposed	125	71	368	Sahi
10	PO_CH_HG_LJ_10	1.51		More than 250		1	1.58	15100	23858	14314.8	Proposed	125	71	369	Sahi
11	PO_CH_HG_LJ_11	0.86		Less than 150	Yes, Area:30.76 Ha	1	1.58	8600	13588	8152.8	Proposed	138	18	124	Murar
12	PO_CH_HG_LJ_13	6.66		More than 250		1	1.58	66600	105228	63136.8	Proposed	139	71	1	Sahi
13	PO_CH_HG_LJ_14	10.74		More than 250		1	1.58	107400	169692	101815.2	Proposed	125	71	1	Sahi
14	PO_CH_HG_LJ_15	1.9		More than 250		1	1.58	19000	30020	18012	Proposed	125	71	1	Sahi
15	PO_CH_HG_LJ_16	4.07		More than 250		1	1.58	40700	64306	38583.6	Proposed	125	145	1	Kataiya
16	PO_CH_HG_LJ_17	2.82		More than 250		1	1.58	28200	44556	26733.6	Proposed	141	146	1	Kataiya
17	PO_CH_HG_LJ_12	1.43		Less than 100 (Hundred)	NO	1	1.58	14300	22594	13556.4	Proposed	141	97	78	Tarwagada
18	PO_CH_HG_LJ_17A	2.6		0 (Zero)	NO	1	1.58	26000	41080	24648	Proposed	142	99	1	Dumri
19	PO_CH_HG_LJ_19	8.32		Less than 200 (Two Hundred)		1	1.58	83200	131456	78873.6	Proposed	142	99	616	Ghanghari
20	PO_CH_HG_LJ_20	3.63		Less than 200 (Two Hundred)		1	1.58	36300	57354	34412.4	Proposed	143	1	1	Lohsingna Khurd
21	PO_CH_HG_LJ_23	1.4		Less than 100 (Hundred)		1	1.58	14000	22120	13272	Proposed	179	16	185	Madanpur
22	PO_CH_HG_LJ_24	0.42		Less than 100 (Hundred)		1	1.58	4200	6636	3981.6	Proposed	179	16	241	Madanpur
23	PO_CH_HG_LJ_26	0.35		Less than 100 (Hundred)	Yes, Area:38.48 Ha.	1	1.58	3500	5530	3318	Proposed	179	14	14	Madanpur

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वनक्षेत्र पदाधिकारी

27/03/2023

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
24	PO_CH_HG_LJ_27	0.45		Less than 100 (Hundred)		1	1.58	4500	7110	4266	Proposed	279	41	57	Raksi
25	PO_CH_HG_LJ_30	3.46		More than 250		1	1.58	34600	54668	32800.8	Proposed	144	76	243	Losingna Kala
26	PO_CH_HG_LJ_31	14.22		Less than 100 (Hundred)		1	1.58	142200	224676	134805.6	Proposed	144	76	243	Losingna Kala
27	PO_CH_HG_LJ_32	3.87		Less than 100 (Hundred)		1	1.58	38700	61146	36687.6	Proposed	151	1	1	Jori Kala
28	PO_CH_HG_LJ_33	1.97		0 (Zero)		1	1.58	19700	31126	18675.6	Proposed	150	267	140	Jori Kala
29	PO_CH_HG_LJ_36	6.5		Less than 200 (Two H)	Yes, Area:42.87 Ha.	1	1.58	65000	102700	61620	Proposed	150	267	1173, 1167	Jori Kala
30	PO_CH_HG_LJ_37	33.97		Less than 100 (Hundred)		1	1.58	339700	536726	322035.6	Proposed	290	68	1,264	Jori Khurd
31	PO_CH_CH_LJ_38	2.4		0 (Zero)		1	1.58	24000	37920	22752	Proposed	290	68	1,264	Jori Khurd
32	PO_CH_HG_LJ_52A	1.97		0 (Zero)	NO	1	1.58	19700	31126	18675.6	Proposed	290	68	1,264	Jori Khurd

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वनक्षेत्र पदाधिकारी
हंटरगंज-प्रक्षेत्र

Divisional Forest Officer
Chatra North Forest Division
27/03/2023

RAJPUR RANGE

SL No	POTENTIAL SANDBAR	AREA Ha.	Distance in Km from PA/BR/ WC	Distance from forest Area (in Meter)	Mining Lease within 500 meters (If Yes Cluster Area)	Depth in meter	Bulk Density	Geological in CUM considering digging depth max As 1 meters	Geological in Tonnes/ Annum	60 % of Geological Total excavation in Tonnes /Annum	Proposed	Thana No	Khata No.	Khasra No.	Potentials Details, Village PO, Block
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	PO_CH_KC_GH_09	2.42		0 (Zero)		1	1.55	24186.51	37489.0905	22493.4543	Proposed	32	22	316	Bhadua
2	PO_CH_KC_GH_10	0.55		0 (Zero)		1	1.55	5476.17	8488.0635	5092.8381	Proposed	30	22	1,4	Daridag
3	PO_CH_KC_GH_10A	0.16		0 (Zero)		1	1.55	1565.37	2426.3235	1455.7941	Proposed	30	22	1,4	Daridag
4	PO_CH_KC_GH_10B	0.49		0 (Zero)		1	1.55	4939.72	7656.566	4593.9396	Proposed	30	22	1,4	Daridag
5	PO_CH_KC_GH_11	0.58		0 (Zero)		1	1.55	5822.83	9025.3865	5415.2319	Proposed	30	22	1,4	Daridag
6	PO_CH_KC_GH_12	0.66		0 (Zero)		1	1.55	6613.93	10251.5915	6150.9549	Proposed	30	22	1,4	Daridag
7	PO_CH_KC_GH_13	0.38		0 (Zero)		1	1.55	3828.76	5934.578	3560.7468	Proposed	30	11	45,1	Daridag
8	PO_CH_KC_GH_14A	0.26		0 (Zero)		1	1.55	2568.25	3980.7875	2388.4725	Proposed	30	22	50	Daridag
9	PO_CH_KC_GH_14B	0.17		0 (Zero)		1	1.55	1669.24	2587.322	1552.3932	Proposed	30	22	50	Daridag
10	PO_CH_KC_GH_14C	0.37		0 (Zero)		1	1.55	3731.46	5783.763	3470.2578	Proposed	30	22	50	Daridag
11	PO_CH_KC_GH_14D	0.16		0 (Zero)		1	1.55	1608.19	2492.6945	1495.6167	Proposed	30	22	50	Daridag
12	PO_CH_KC_GH_15	0.51		0 (Zero)		1	1.55	5085.59	7882.6645	4729.5987	Proposed	30	22	50	Daridag
13	PO_CH_KC_GH_15A	0.31		0 (Zero)		1	1.55	3142.77	4871.2935	2922.7761	Proposed	30	22	50	Daridag
14	PO_CH_KC_GH_16	0.34		0 (Zero)	Yes-9.80	1	1.55	3379.74	5238.597	3143.1582	Proposed	30	22	50	Daridag
15	PO_CH_KC_GH_17	0.76		0 (Zero)		1	1.55	7600.7	11781.085	7068.651	Proposed	30	22	50	Daridag
16	PO_CH_KC_GH_18	0.61		0 (Zero)		1	1.55	6113.05	9475.2275	5685.1365	Proposed	30	22	50	Daridag
17	PO_CH_KC_GH_19	0.68		0 (Zero)		1	1.55	6841.46	10604.263	6362.5578	Proposed	44	58	1	Bindhani
18	PO_CH_KC_GH_20A	0.40		0 (Zero)		1	1.55	3964.82	6145.471	3687.2826	Proposed	44	58	1	Bindhani
19	PO_CH_KC_GH_20B	0.47		0 (Zero)		1	1.55	4735.19	7339.5445	4403.7267	Proposed	44	58	1	Bindhani
20	PO_CH_KC_GH_20C	0.17		0 (Zero)		1	1.55	1722.99	2670.6345	1602.3807	Proposed	44	58	1	Bindhani
21	PO_CH_KC_GH_21A	0.29		0 (Zero)		1	1.55	2929.95	4541.4225	2724.8535	Proposed	44	58	1	Bindhani
22	PO_CH_KC_GH_22	0.35		0 (Zero)		1	1.55	3538.15	5484.1325	3290.4795	Proposed	44	58	1	Bindhani
23	PO_CH_KC_GH_22A	0.43		Less than 50 (Fifty)		1	1.55	4319.05	6694.5275	4016.7165	Proposed	44	58	1	Bindhani
24	PO_CH_KC_GH_22B	0.68		Less than 50 (Fifty)		1	1.55	6802.2	10543.41	6326.046	Proposed	44	58	1	Bindhani
25	PO_CH_KC_GH_22E	1.63		0 (Zero)		1	1.55	16335.35	25319.7925	15191.8755	Proposed	45	41	1388	Harhad
26	PO_CH_KC_GH_39	0.20		0 (Zero)	0.44	1	1.55	2008.91	3113.8105	1868.2863	Proposed	40	2	31	Kathoutia
27	PO_CH_KC_GH_40	0.24		0 (Zero)		1	1.55	2401.77	3722.7435	2233.6461	Proposed	40	2	31	Kathoutia
28	PO_CH_KC_GH_40A	0.46		0 (Zero)		1	1.55	4600.21	7130.3255	4278.1953	Proposed	41	19	76, 78	Chikor
29	PO_CH_KC_GH_40C	0.16		0 (Zero)		1	1.55	1585.67	2457.7885	1474.6731	Proposed	50	105	1497	Jamri Bakaspura
30	PO_CH_KC_MA_01	1.24		0 (Zero)		1	1.56	12400	19592	11755.2	Proposed	28	20	69	Banda

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राजपुर-प्रक्षेत्र

Divisional Forest Officer
Chatra North Forest Division
29/3/23

PRATAPPUR RANGE

SL No	POTENTIAL SANDBAR	AREA Ha.	Distance in Km from PA/BR/ WC	Distance from forest Area (in Meter)	Mining Lease within 500 meters (if Yes Cluster Area)	Depth in meter	Bulk Density	Geological in CUM considering digging depth max As 1 meters	Geological in Tonnes/ Annum	60 % of Geological Total excavation in Tonnes /Annum	Proposed	Thana No	Khata No.	Khasra No.	Potentials Details, Village PO, Block
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	PO_CH_PR_MH_01_02	7.52		Less than 50 (Fifty)	Yes, Area: 10.43 Ha.	1	1.55	75200	118816	71289.6	Proposed	2	22	41	Kasibar
1				Less than 100 (Hundred)		1	1.55	29100	45978	27586.8	Proposed	2	34	1	Kasibar
2	PO_CH_PR_MH_03	2.91		Less than 10 (Ten)	NO	1	1.55	40300	63674	38204.4	Proposed	2	34	185	Kasibar
3	PO_CH_PR_MH_05	4.03		More than 250	Yes, Area: 0.99 Ha.	1	1.55	4600	7268	4360.8	Proposed	46	96	358	Bharahi
4	PO_CH_PR_MH_07	0.46		More than 250		1	1.55	5300	8374	5024.4	Proposed	46	96	358	Bharahi
5	PO_CH_PR_MH_08	0.53		Less than 20 (Twenty)	Yes, Area: 2.33Ha.	1	1.55	5300	8374	5024.4	Proposed	49	44	90	Bhusia
6	PO_CH_PR_MH_11	0.53		0 (Zero)		1	1.55	1200	1896	1137.6	Proposed	49	44	90	Bhusia
7	PO_CH_PR_MH_12	0.12		0 (Zero)		1	1.55	2600	4108	2464.8	Proposed	49	44	90	Bhusia
8	PO_CH_PR_MH_13	0.26		0 (Zero)		1	1.55	3600	5688	3412.8	Proposed	49	44	90	Bhusia
9	PO_CH_PR_MH_14	0.36		0 (Zero)		1	1.55	3000	4740	2844	Proposed	46	96	358	Bharahi
10	PO_CH_PR_MH_15	0.30		0 (Zero)		1	1.55	2500	3950	2370	Proposed	49	44	90	Bhusia
11	PO_CH_PR_MH_15A	0.25		0 (Zero)		1	1.55	5100	8058	4834.8	Proposed	49	44	90	Bhusia
12	PO_CH_PR_MH_16	0.51		0 (Zero)		1	1.55	3800	6004	3602.4	Proposed	48	1	27	Humajan
13	PO_CH_PR_MH_18A	0.38		0 (Zero)	Yes, Area: 1.11Ha.	1	1.55	7300	11534	6920.4	Proposed	48	1	27	Humajan
14	PO_CH_PR_MH_19_20	0.73		0 (Zero)		1	1.55	5700	9006	5403.6	Proposed	67	10	281	Lipda
15	PO_CH_PR_MH_25	0.57		Less than 50 (Fifty)	Yes, Area: 2.05Ha.	1	1.55	3000	4740	2844	Proposed	67	10	282	Lipda
16	PO_CH_PR_MH_26_27	0.30		0 (Zero)		1	1.55	2200	3476	2085.6	Proposed	67	10	282	Lipda
17	PO_CH_PR_MH_29	0.22		0 (Zero)		1	1.55	9600	15168	9100.8	Proposed	66	-	50	Bansi
18	PO_CH_PR_MH_33	0.96		0 (Zero)		1	1.55	1900	3002	1801.2	Proposed	89	60	66	Nanai Kala
19	PO_CH_PR_MH_34	0.19		0 (Zero)	NO	1	1.55	1900	3002	1801.2	Proposed	89	60	66	Nanai Kala
20	PO_CH_PR_MH_36	0.19		0 (Zero)	NO	1	1.55	14700	23226	13935.6	Proposed	Bihar Area			Ghorighat
21	PO_CH_PR_MH_41	1.47		More than 250	Yes, Area: 2.68Ha.	1	1.55	12100	19118	11470.8	Proposed	Bihar Area			Ghorighat
22	PO_CH_PR_MH_43	1.21		More than 250		1	1.55	157400	248692	149215.2	Proposed	45	-	171, 1	Bajrahi
23	PO_CH_PR_MH_45	15.74		0 (Zero)	NO	1	1.55	109300	172694	103616.4	Proposed	72	61	486,474	Rajpur
24	PO_CH_PR_MH_49	10.93		0 (Zero)	NO	1	1.55	77500	122450	73470	Proposed	75	162	651	Koura
25	PO_CH_PR_MH_51	7.75		0 (Zero)	Yes, Area: 8.87Ha.	1	1.55	11200	17696	10617.6	Proposed	75	162	651	Koura
26	PO_CH_PR_MH_51A	1.12		0 (Zero)		1	1.55	46000	72680	43608	Proposed	121	-	354	Charka Khurd
27	PO_CH_PR_MH_54	4.60		Less than 200 (Two Hundred)	NO										

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
28	PO_CH_PR_MH_60	0.48		0 (Zero)	Yes, Area: 1.73Ha.	1	1.55	4800	7584	4550.4	Proposed	79	1	1	Fagua
29	PO_CH_PR_MH_62	1.25		0 (Zero)		1	1.55	12500	19750	11850	Proposed	79	1	1	Fagua
30	PO_CH_PR_MH_64	2.46		Less than 50 (Fifty)	Yes, Area: 6.63Ha.	1	1.55	24600	38868	23320.8	Proposed	116	-	247	Lipda
31	PO_CH_PR_MH_65	2.02		Less than 100 (Hundred)		1	1.55	20200	31916	19149.6	Proposed	132	1	157	Jirabar
32	PO_CH_PR_MH_66	2.15		0 (Zero)		1	1.55	21500	33970	20382	Proposed	132	1	8	Jirabar
33	PO_CH_PR_MH_67	0.74		0 (Zero)	Yes, Area: 9.92Ha.	1	1.55	7400	11692	7015.2	Proposed	134	18	1	Sinduria
34	PO_CH_PR_MH_69	1.36		Less than 20 (Twenty)		1	1.55	13600	21488	12892.8	Proposed	134	18	36	Sinduria
35	PO_CH_PR_MH_70	1.94		0 (Zero)		1	1.55	19400	30652	18391.2	Proposed	135	3	102	Hesatu
36	PO_CH_PR_MH_71	1.14		0 (Zero)		1	1.55	11400	18012	10807.2	Proposed	135	3	102	Hesatu
37	PO_CH_PR_MH_72	0.62		0 (Zero)		1	1.55	6200	9796	5877.6	Proposed	135	3	102	Hesatu

वन क्षेत्र पदाधिकारी
प्रतापुर प्रक्षेत्र

Divisional Forest Officer
Chatra North Forest Division

22/3/23

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★
Approved

KUNDA RANGE

Sl. No	POTENTIAL SANDBAR	AREA Ha.	Distance in Km from PA/BR/ WC	Distance from forest Area (in Meter)	Mining Lease within 500 meters (if Yes Cluster Area)	Depth in meter	Bulk Density	Geological in CUM considering digging depth max As 1 meters	Geological in Tonnes/ Annum	60 % of Geological Total excavation in Tonnes /Annum	Proposed	Thana No	Khata No.	Khasra No.	Potentials Details, Village PO, Block
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	PO_CH_KD_MH_73	4.12		0 (Zero)		1	1.55	41200	65096	39057.6	Proposed	137	-	-	Bantha
2	PO_CH_KD_MH_74A	0.09		0 (Zero)	NO	1	1.55	900	1422	853.2	Proposed	165	-	-	Lukueya
3	PO_CH_KD_MH_74B	0.24		0 (Zero)	Yes, Area: 0.38Ha.	1	1.55	2400	3792	2275.2	Proposed	165	-	-	Lukueya
4	PO_CH_KD_MH_74C	0.14		0 (Zero)		1	1.55	1400	2212	1327.2	Proposed	137	-	-	Bantha
5	PO_CH_KD_MH_74D	0.17		0 (Zero)	Yes, Area: 0.34Ha.	1	1.55	1700	2686	1611.6	Proposed	155	-	-	Kujram
6	PO_CH_KD_MH_74E	0.17		0 (Zero)		1	1.55	1700	2686	1611.6	Proposed	152	-	-	Lupugarha

27/3/23
वन क्षेत्र पदाधिकारी
कुन्दा प्रक्षेत्र

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★
Approved

Divisional Forest Officer
Chatra North Forest Division
24/03/2023
24/3/23

कार्यालय, अचंल अधिकारी, चतरा।

पत्रांक 239 दिनांक 11.03.2023

प्रेषक,

अंचल अधिकारी
चतरा।

सेवा में,

जिला खनन पदाधिकारी,
चतरा।

विषयः— District Survey Report तैयार करने हेतु अंचल चतरा अंतर्गत चिन्हित सभी बालुघाटों का भूमि प्रतिवेदन का प्रेषण।

प्रसंगः— भवदीय पत्रांक–234/खनन, चतरा, दिनांक– 10.03.2023

महाशय,

उपर्युक्त विषय एवं प्रसंग के आलोक में कहना है कि लघु खनिज बालू का जिला सर्वेक्षण रिपोर्ट (DSR) तैयार करने हेतु अंचल चतरा अंतर्गत .Kml file एवं Potential Sandbar में चिन्हित बालूघाटों का भूमि प्रतिवेदन संबंधित राजस्व उपनिरीक्षक एवं अंचल निरीक्षक से प्राप्त है जो निम्नवत हैः–

क्र0	Potential Sandbar Point	मौजा	थाना	थाना सं0	खाता सं0	प्लॉट सं0	प्रखण्ड	अभ्युक्ति
01	PO-CH-CH-LJ-38	कठौन	चतरा	163	24	125	चतरा	
			चतरा		24	01	चतरा	
			चतरा		24	287	चतरा	
02	PO-CH-CH-LJ-40	कठौन	चतरा	163	24	125	चतरा	
03	PO-CH-CH-LJ-41	कठौन	चतरा	163	24	125	चतरा	
			चतरा	163	24	287	चतरा	
04	PO-CH-CH-LJ-43	सिन्दुवारी	चतरा	166	38	01	चतरा	
05	PO-CH-CH-LJ-43A	शेरपुर	चतरा	167	56	105	चतरा	
06	PO-CH-CH-LJ-44	चेतमा	चतरा	169	21	01	चतरा	
07	PO-CH-CH-LJ-47	लुटु	चतरा	200	48	01	चतरा	
08	PO-CH-CH-LJ-56	गमहारतरी	चतरा	159	40	01	चतरा	
09	PO-CH-CH-LJ-56A	गमहारतरी	चतरा	159	40	01	चतरा	
10	PO-CH-CH-LJ-57	गमहारतरी	चतरा	159	40	01	चतरा	
11	PO-CH-CH-LJ-58	गमहारतरी	चतरा	159	40	01	चतरा	
12	PO-CH-CH-LJ-59	गमहातरी	चतरा	159	40	01	चतरा	

प्रतिवेदन सूचनार्थ प्रेषित।

11/3/23

State Level Environment Impact Assessment Authority * Ranchi * Approved

विश्वासभाजन

11/03/23

अंचल अधिकारी,
चतरा।
11.03.23

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कार्यालय :– अंचल अधिकारी, गिद्धौर (चतरा)।

पत्रांक– 86 दिनांक– 11–3–023

प्रेषक,

अंचल अधिकारी,
गिद्धौर।

सेवा में,

जिला खनन पदाधिकारी,
चतरा।

विषय :– अंचल गिद्धौर अन्तर्गत DSR Sand के संदर्भ में चिन्हित बालूघाटों का Kml File एवं Potential Sandbar की सूची उपलब्ध कराने के संबंध में।

प्रसंग:– भवदीय पत्रांक–234 / खनन,चतरा, दिनांक–10.03.2023

महाशय,

उपर्युक्त विषय एवं प्रसंग के आलोक में कहना है कि अंचल गिद्धौर अन्तर्गत DSR Sand के संदर्भ में चिन्हित बालूघाटों का Kml File एवं Potential Sandbar की सूची संबंधित राजस्व उपनिरीक्षक / सरकारी अमीन / अंचल निरीक्षक द्वारा प्रस्तावित सभी बालूघाटों का मौजा, थाना नं0, खाता नं0, प्लॉट नं0 संबंधित प्रतिवेदन उपलब्ध कराया गया है, जिसे इस पत्र के साथ संलग्न कर भेजा जा रहा है।

अनु0:– यथोक्त।

विश्वासभाजन

11.3.023

अंचल अधिकारी,
गिद्धौर।

ज्ञापांक– दिनांक–

प्रतिलिपि :– 1. अपर समाहर्त्ता, चतरा को सादर सूचनार्थ समर्पित।
2. उपायुक्त, चतरा को सादर सूचनार्थ समर्पित।

11-3-2023

अंचल अधिकारी,
गिद्धौर।

State Level Environment Impact Assessment Authority
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Jharkhand, Ranchi

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District survey report (DSR) Sand Anchal gidhour.

	Sl.No	POTENTIAL SANDBAR	REA_Ha	Distance in Km from PA/BR/WC	Distance from forest Area (in Km)	Mining Lease within 500 meters (if Yes Cluster Area)	Depth in meter	Bulk Density	Geological in CUM considering digging depth max As 1 meters	Geological in Tonnes /Annum	60 % of Geological Total excavation in Tonnes /Annum	Proposed	Thana No	Khata No.	Khasra No.	Potentials Details, Village PO, Block
1	26	PO_CH_GD_GH_22G	0.80				1	1.55	8011.3	12417.5	7450.51	Proposed	69	1	129	
2	27	PO_CH_GD_GH_22I	0.71				1	1.55	7087.81	10986.1	6591.66	Proposed	69	1	129	
3	28	PO_CH_GD_GH_23	0.82				1	1.55	8158.3	12645.4	7587.22	Proposed	12	70	757	
4	29	PO_CH_GD_GH_24	1.18				1	1.55	11756.8	18223	10933.8	Proposed	12	70	757	
5	30	PO_CH_GD_GH_26	0.59			Yes-3.92	1	1.55	5900.88	9146.36	5487.82	Proposed	12	70	757	
6	31	PO_CH_GD_GH_27	0.44				1	1.55	4404.47	6826.93	4096.16	Proposed	12	70	757	
7	32	PO_CH_GD_GH_28	0.90				1	1.55	8989.17	13933.2	8359.93	Proposed	12	64	986	
8	33	PO_CH_GD_GH_29	0.58				1	1.55	5796.9	8985.2	5391.12	Proposed	12	64	371	
9	34	PO_CH_GD_GH_30	0.77				1	1.55	7668.02	11885.4	7131.26	Proposed	12	16	371	
10	35	PO_CH_GD_GH_31	0.57				1	1.55	5684.63	8811.18	5286.71	Proposed	13	46	591	
11	36	PO_CH_GD_GH_32	0.29			Yes-2.73	1	1.55	2917.96	4522.84	2713.7	Proposed	28	79	591	
12	37	PO_CH_GD_GH_33	0.68				1	1.55	6796.23	10534.2	6320.49	Proposed	28	79	852	
13	38	PO_CH_GD_GH_34	0.42				1	1.55	4230.42	6557.15	3934.29	Proposed	28	79	852	
14	39	PO_CH_GD_GH_36	0.27				1	1.55	2694.32	4176.2	2505.72	Proposed	27	15	120	
15	40	PO_CH_GD_GH_37	0.37				1	1.55	3687.19	5715.14	3429.09	Proposed	27	15	120	
16	41	PO_CH_GD_GH_38	0.31				1	1.55	3055.26	4735.65	2841.39	Proposed	43	5	4	
17	116	PO_CH_GD_MA_31	1.19				1	1.56	11900	18802	11281.2	Proposed				
18	117	PO_CH_GD_MA_32	0.83				1	1.56	8300	13114	7868.4	Proposed				
19	118	PO_CH_GD_MA_33	1.94				1	1.56	19400	30652	18391.2	Proposed	गिदौर अंचल में नही है।			
20	119	PO_CH_GD_MA_34	0.42				1	1.56	4200	6636	3981.6	Proposed				
21	120	PO_CH_GD_MA_35	0.51				1	1.56	5100	8058	4834.8	Proposed				
22	121	PO_CH_GD_MA_36	1.92				1	1.56	19200	30336	18201.6	Proposed				
23	122	PO_CH_GD_MA_37	0.46				1	1.56	4600	7268	4360.8	Proposed	70	1	77	
24	123	PO_CH_GD_MA_38	0.66				1	1.56	6600	10428	6256.8	Proposed	70	1	77	
25	124	PO_CH_GD_MA_43	3.93			Area:5.91 Ha.	1	1.56	39300	62094	37256.4	Proposed	70	1	48	
26	125	PO_CH_GD_MA_44	1.98				1	1.56	19800	31284	18770.4	Proposed	71	186	4523	
													71	186	4523	

11/3/2023 H.N.9

11/3/23

अंचल अधिकारी
गिदौर।

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Sl.No	POTENTIAL SANDBAR	AREA_ Ha.	Distance in Km from PA/BR/ WC	Distance from forest Area (in Km)	Mining Lease within 500 meters (if Yes Cluster Area)	Geological in CUM considering digging depth max As 1 meters	Geological in Tonnes	60 % of Geological Total excavation in Tonnes /Annum	Proposed	Thana No.	Khata No.	Khasra No.	Potentials Details, Village PO, Block
1	PO_CH_HG_LJ_1A	24.7			NO	247000	390260	234156	Proposed	91 93	1 98	76 1, 1133	उरैती बहेरा
2	PO_CH_HG_LJ_01	19.26			NO	192600	304308	182584.8	Proposed	101 103	74 1	566 1	सुग्गी पन्ढरीकसां
3	PO_CH_HG_LJ_02	9.56			Yes, Area:14.49	95600	151048	90628.8	Proposed	87	25	1	गढ़केदली
4	PO_CH_HG_LJ_03	4.93				49300	77894	46735.4	Proposed	43	52	275	नावाडीह
5	PO_CH_HG_LJ_04	46.54			NO	465400	735332	441199.2	Proposed	85 77 78 80	127 1 13 151	1,400,837 268, 269, 301, 302 1 1	केदलीफलां पटवा बाँकी कोबनी
6	PO_CH_HG_LJ_05	0.37			Yes, Area:30.76 Ha.	3700	5846	3507.6	Proposed	125	71	368	साही
7	PO_CH_HG_LJ_06	1.02				10200	16116	9669.6	Proposed	125	71	368	साही
8	PO_CH_HG_LJ_07	0.53				5300	8374	5024.4	Proposed	125	71	368	साही
9	PO_CH_HG_LJ_08	0.28				2800	4424	2654.4	Proposed	125	71	369	साही
10	PO_CH_HG_LJ_10	1.51				15100	23858	14314.8	Proposed	125	71	124	मुरार
11	PO_CH_HG_LJ_11	0.86				8600	13588	8152.8	Proposed	138	18	1	साही
12	PO_CH_HG_LJ_13	6.66				66600	105228	63136.8	Proposed	139	71	1	साही
13	PO_CH_HG_LJ_14	10.74				107400	169692	101815.2	Proposed	125	71	1	साही
14	PO_CH_HG_LJ_15	1.9				19000	30020	18012	Proposed	125	71	1	साही
15	PO_CH_HG_LJ_16	4.07				40700	64306	38583.6	Proposed	125	146	1	कटैया
16	PO_CH_HG_LJ_17	2.82				28200	44556	26733.6	Proposed	141	146	1	कटैया
17	PO_CH_HG_LJ_12	1.43			NO	14300	22594	13556.4	Proposed	141	97	78	तरवागढ़ा
18	PO_CH_HG_LJ_17A	2.6			NO	26000	41080	24648	Proposed	142	99	1	घंघरी
19	PO_CH_HG_LJ_19	8.32			Yes, Area:38.48 Ha.	83200	131456	78873.6	Proposed	142	99	616	घंघरी
20	PO_CH_HG_LJ_20	3.63				36300	57354	34412.4	Proposed	143	1	1	लोहसिंपना खुर्द
21	PO_CH_HG_LJ_23	1.4				14000	22120	13272	Proposed	179	16	185	मदनपुर
22	PO_CH_HG_LJ_24	0.42				4200	6636	3981.6	Proposed	179	16	241	मदनपुर
23	PO_CH_HG_LJ_26	0.35				3500	5530	3318	Proposed	179	14	14	मदनपुर
24	PO_CH_HG_LJ_27	0.45				4500	7110	4266	Proposed	279	41	57	रबसी
25	PO_CH_HG_LJ_30	3.46				34600	54668	32800.8	Proposed	144	76	244	लोहसिंपना कला
26	PO_CH_HG_LJ_31	14.22				142200	224676	134805.6	Proposed	144	76	1, 243	लोहसिंपना कला

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28	PO_CH_HG_LJ_32	3.87				38700	61146	36687.6	Proposed	151 150	1 267	1 1174	केवला जोरीकलां
29	PO_CH_HG_LJ_33	1.97				19700	31126	18675.6	Proposed	150	267	140	जोरीकलां
30	PO_CH_HG_LJ_36	6.5			Yes, Area:42.87 Ha.	65000	102700	61620	Proposed	150	267	1173, 1168	जोरीकलां
31	PO_CH_HG_LJ_37	33.97				339700	536726	322035.6	Proposed	290 289	68 17	1, 264 203, 14, 205	जोरीखुर्द कुरसेल
32	PO_CH_HG_LJ_52A	1.97			NO	19700	31126	18675.6	Proposed	290	68	393	जोरीखुर्द

पत्रांक :- 217 दिनांक :- 11/3/23

अंचल अधिकारी 11.03.23
हण्टरगंज।

प्रतिलिपि :- जिला खनन पदाधिकारी, चतरा के पत्रांक – 234/खनन, दिनांक – 10.03.2023 के आलोक में प्रतिवेदन सादर समर्पित।

अंचल अधिकारी 11.03.23
हण्टरगंज।

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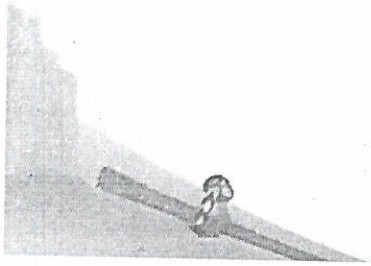

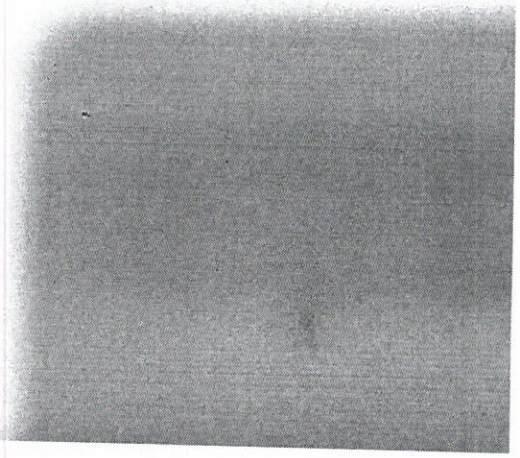

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कार्यालय :– अंचल अधिकारी, हण्टरगंज(चतरा)।

पत्रांकः– 1048 दिनांकः– 30.12.22

प्रेषक,

अंचल अधिकारी,
हण्टरगंज।

सेवा में,

जिला खनन पदाधिकारी,
चतरा।

विषय :– बालुघाटों का संचालन हेतु जिला सर्वेक्षण रिपोर्ट से संबंधित प्रतिवेदन का प्रेषण।

प्रसंग :– आपका पत्रांक– 1237/खनन दिनांक– 14.12.2022

महाशय,

उपर्युक्त विषयक एवं प्रासंगिक पत्र के निदेशानुसार अंचल अन्तर्गत लघु खनिज बालु घाटों का सर्वेक्षण रिपोर्ट विहित प्रपत्र में बालुघाट/बिंदुवार तैयार इस पत्र के साथ संलग्न कर उपलब्ध कराया जा रहा है।

अनु0 :– यथोक्त।

विश्वासभाजन
30.12.22
अंचल अधिकारी,
हण्टरगंज

30.12.22 30/12/22

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कार्यालय :– अंचल अधिकारी, हण्टरगंज (चतरा)।

मौजा– कुरसेल, थाना नं०– 289, खाता– 17, प्लॉट संख्या– 203, रकबा– 12.30 हे० एवं सर्वे खतियान में नदी दर्ज है, से संबंधित प्रतिवेदन।

क्र० सं०	बिन्दु	हाँ / नहीं
1	आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर– II में जंगल झाड़ी या डीम्ड फोरेस्ट के रूप में दर्ज है या नहीं ?	नहीं
2	क्या 500 मीटर की दुरी के अन्दर कोई मानव बसाइट (Habitation) स्थित है ?	हाँ
3	क्या 500 मीटर की दुरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है ?	नहीं
4	क्या 500 मीटर की दुरी के अंदर कोई नहीं (River) स्थित है ?	नहीं
5	क्या 500 मीटर की दुरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	हाँ
6	क्या 500 मीटर की दुरी के अंदर कोई चिकित्सालय (Hospital) स्थित है?	नहीं
7	क्या 10 कि० मी० की परिधि में कोई अंतर्राज्जीय (Interstate) सीमा है ?	नहीं
8	क्या 500 मीटर की दुरी के अंदर कोई राष्ट्रीय धरोहर/पुरातत्वीय (Monuments/Archaeological) महत्व के स्थल स्थित है ?	नहीं

30.12.22

अंचल अधिकारी,
हण्टरगंज।

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कार्यालय :– अंचल अधिकारी, हण्टरगंज (चतरा)।

मौजा– बहेरी, थाना नं0– 79, खाता– 98, प्लॉट संख्या– 462, रकबा–34.51 हे0 एवं सर्वे खतियान में जंगल दर्ज है, से संबंधित प्रतिवेदन।

क्र0 सं0	बिन्दु	हाँ / नहीं
1	आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर– II में जंगल झाड़ी या डीम्ड फोरेस्ट के रूप में दर्ज है या नहीं ?	हाँ
2	क्या 500 मीटर की दुरी के अन्दर कोई मानव वसाइट (Habitation) स्थित है ?	हाँ
3	क्या 500 मीटर की दुरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है ?	हाँ
4	क्या 500 मीटर की दुरी के अंदर कोई नहीं (River) स्थित है ?	हाँ
5	क्या 500 मीटर की दुरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	हाँ
6	क्या 500 मीटर की दुरी के अंदर कोई चिकित्सालय (Hospital) स्थित है?	नहीं
7	क्या 10 कि0 मी0 की परिधि में कोई अंतर्राज्जीय (Interstate) सीमा है ?	हाँ
8	क्या 500 मीटर की दुरी के अंदर कोई राष्ट्रीय धरोहर/पुरातत्वीय (Monuments/Archaeological) महत्व के स्थल स्थित है ?	हाँ

30.12.22

अंचल अधिकारी,
हण्टरगंज।

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कार्यालय :– अंचल अधिकारी, हण्टरगंज (चतरा)।

मौजा– बोड़ा, थाना नं0– 133, खाता– 85, प्लॉट संख्या– 40, रकबा– 39.87 हे0 एवं सर्वे खतियान में जंगल दर्ज है, से संबंधित प्रतिवेदन।

क्र0 सं0	बिन्दु	हाँ/नहीं
1	आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर– II में जंगल झाड़ी या डीम्ड फोरेस्ट के रूप में दर्ज है या नहीं ?	हाँ
2	क्या 500 मीटर की दुरी के अन्दर कोई मानव बसाइट (Habitation) स्थित है ?	हाँ
3	क्या 500 मीटर की दुरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है ?	नहीं
4	क्या 500 मीटर की दुरी के अंदर कोई नहीं (River) स्थित है ?	हाँ
5	क्या 500 मीटर की दुरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6	क्या 500 मीटर की दुरी के अंदर कोई चिकित्सालय (Hospital) स्थित है?	नहीं
7	क्या 10 कि0 मी0 की परिधि में कोई अंतर्राज्जीय (Interstate) सीमा है ?	नहीं
8	क्या 500 मीटर की दुरी के अंदर कोई राष्ट्रीय धरोहर/पुरातत्वीय (Monuments/Archaeological) महत्व के स्थल स्थित है ?	नहीं

30.12.21

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कार्यालय :– अंचल अधिकारी, हण्टरगंज (चतरा)।

मौजा– बंडाटाँड़, थाना नं0– 295, खाता– 1, प्लॉट संख्या– 77,80, रकबा– 358.03 हे0 एवं सर्वे खतियान में जंगल, पहाड़ दर्ज है, से संबंधित प्रतिवेदन।

क्र0 सं0	बिन्दु	हाँ / नहीं
1	आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर– II में जंगल झाड़ी या डीम्ड फोरेस्ट के रूप में दर्ज है या नहीं ?	हाँ
2	क्या 500 मीटर की दुरी के अन्दर कोई मानव बसाइट (Habitation) स्थित है ?	नहीं
3	क्या 500 मीटर की दुरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है ?	नहीं
4	क्या 500 मीटर की दुरी के अंदर कोई नहीं (River) स्थित है ?	नहीं
5	क्या 500 मीटर की दुरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6	क्या 500 मीटर की दुरी के अंदर कोई चिकित्सालय (Hospital) स्थित है?	नहीं
7	क्या 10 कि0 मी0 की परिधि में कोई अंतर्राज्जीय (Interstate) सीमा है ?	नहीं
8	क्या 500 मीटर की दुरी के अंदर कोई राष्ट्रीय धरोहर/पुरातत्वीय (Monuments/Archaeological) महत्व के स्थल स्थित है ?	नहीं

30.12.22

अंचल अधिकारी,
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कार्यालय :– अंचल अधिकारी, हण्टरगंज (चतरा)।

मौजा– पोस्तिया, थाना नं0– 297, खाता– 92, प्लॉट संख्या– 1101,1102, रकबा– 166.70 है0 एवं सर्वे खतियान में जंगल, दर्ज है, से संबंधित प्रतिवेदन।

क्र0 सं0	बिन्दु	हाँ / नहीं
1	आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर– II में जंगल झाड़ी या डीम्ड फोरेस्ट के रूप में दर्ज है या नहीं ?	हाँ
2	क्या 500 मीटर की दुरी के अन्दर कोई मानव बसाइट (Habitation) स्थित है ?	नहीं
3	क्या 500 मीटर की दुरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है ?	नहीं
4	क्या 500 मीटर की दुरी के अंदर कोई नहीं (River) स्थित है ?	नहीं
5	क्या 500 मीटर की दुरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6	क्या 500 मीटर की दुरी के अंदर कोई चिकित्सालय (Hospital) स्थित है?	नहीं
7	क्या 10 कि0 मी0 की परिधि में कोई अंतर्राज्जीय (Interstate) सीमा है ?	नहीं
8	क्या 500 मीटर की दुरी के अंदर कोई राष्ट्रीय धरोहर/पुरातत्वीय (Monuments/Archaeological) महत्व के स्थल स्थित है ?	नहीं

30.12.22

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कार्यालय :– अंचल अधिकारी, हण्टरगंज (चतरा)।

मौजा– लोहसिंघना खुर्द, थाना नं0– 143, खाता– 1, प्लॉट संख्या– 16, रकबा– 04.17 है0 एवं सभी खतियान में जंगल, दर्ज है, से संबंधित प्रतिवेदन।

क्र0 सं0	बिन्दु	हाँ / नहीं
1	आवेदित भूमि की कोटि सभी खतियान यथा रजिस्टर– II में जंगल झाड़ी या डीम्ड फोरेस्ट के रूप में दर्ज है या नहीं ?	हाँ
2	क्या 500 मीटर की दुरी के अन्दर कोई मानव बसाइट (Habitation) स्थित है ?	नहीं
3	क्या 500 मीटर की दुरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है ?	नहीं
4	क्या 500 मीटर की दुरी के अंदर कोई नहीं (River) स्थित है ?	नहीं
5	क्या 500 मीटर की दुरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	नहीं
6	क्या 500 मीटर की दुरी के अंदर कोई चिकित्सालय (Hospital) स्थित है?	नहीं
7	क्या 10 कि0 मी0 की परिधि में कोई अंतर्राज्जीय (Interstate) सीमा है ?	नहीं
8	क्या 500 मीटर की दुरी के अंदर कोई राष्ट्रीय धरोहर/पुरातत्वीय (Monuments/Archaeological) महत्व के स्थल स्थित है ?	नहीं

30.12.22

अंचल अधिकारी,
हण्टरगंज।

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कार्यालय :– अंचल अधिकारी, हण्टरगंज (चतरा)।

मौजा– निजरा, थाना नं0– 157, खाता– 21, प्लॉट संख्या– 27, रकबा– 15.78 है0 एवं सर्वे खतियान में जंगल, दर्ज है, से संबंधित प्रतिवेदन।

क्र0 सं0	बिन्दु	हाँ / नहीं
1	आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर– II में जंगल झाड़ी या डीम्ड फोरेस्ट के रूप में दर्ज है या नही ?	हाँ
2	क्या 500 मीटर की दुरी के अन्दर कोई मानव बसाइट (Habitation) स्थित है ?	हाँ
3	क्या 500 मीटर की दुरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित है ?	नहीं
4	क्या 500 मीटर की दुरी के अंदर कोई नहीं (River) स्थित है ?	नहीं
5	क्या 500 मीटर की दुरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) स्थित है?	हाँ
6	क्या 500 मीटर की दुरी के अंदर कोई चिकित्सालय (Hospital) स्थित है?	नहीं
7	क्या 10 कि0 मी0 की परिधि में कोई अंतर्राज्जीय (Interstate) सीमा है ?	नहीं
8	क्या 500 मीटर की दुरी के अंदर कोई राष्ट्रीय धरोहर/पुरातत्वीय (Monuments/Archaeological) महत्व के स्थल स्थित है ?	नहीं

30.12.22

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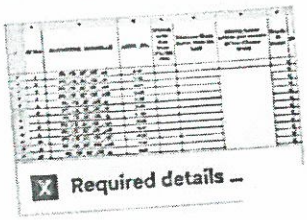

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13/3/23

State Level Environment Impact Assessment Authority * Jharkhand, Ranchi *

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Sl.No	POTENTIAL SANDBAR	AREA_ha.	Distance in Km from PA/BR/WC	Distance from forest Area (in Km)	Mining Lease within 500 meters (If Yes Cluster Area)	Geological in CUM considering digging depth max As 1 meters	Geological in Tonnes	60 % of Geological Total excavation in Tonnes /Annum	Proposed	VILLAGE	THANA	KHATA	PLOT
1	PO_CH_KC_MA_01	1.24											
2	PO_CH_IK_MA_02	1.83			Yes, Area:11.85 Ha.	12400	19344	11606.4	Proposed				
3	PO_CH_IK_MA_03_04_05	4.57				18300	28548	17128.8	Proposed	ITKHORI	45	13	1
4	PO_CH_IK_MA_06	2.76				45700	71292	42775.2	Proposed	ITKHORI	45	13	1
5	PO_CH_IK_MA_07	1.45				27600	43056	25833.6	Proposed	ITKHORI	45	13	1
6	PO_CH_IK_MA_08	1.07				14500	22620	13572	Proposed	ITKHORI	45	162	522
7	PO_CH_IK_MA_09	2.84			Yes, Area:6.90	10700	16692	10015.2	Proposed	ITKHORI	45	162	521
8	PO_CH_IK_MA_10	4.06				28400	44304	26582.4	Proposed	ITKHORI	45	13	560
9	PO_CH_IK_MA_13	0.25			No	40600	63336	38001.6	Proposed	ITKHORI	45	13	1
10	PO_CH_IK_MA_14_15	2.63			Yes, Area:2.88	2500	3900	2340	Proposed	KATUWA	39	26	168
11	PO_CH_IK_MA_19	0.22				26300	41028	24616.8	Proposed	PRITHWIPUR	266	19	18
12	PO_CH_IK_MA_19A	0.90			Yes, Area:1.12	2200	3432	2059.2	Proposed	PRITHWIPUR	266	19	18
13	PO_CH_IK_MA_20_21	1.15				9000	14040	8424	Proposed	PRITHWIPUR	266	19	18
14	PO_CH_IK_MA_21A	0.65				11500	17940	10764	Proposed	TONATAND	106	45	1
15	PO_CH_IK_MA_22	6.30				6500	10140	6084	Proposed	TONATAND	106	45	1
16	PO_CH_IK_MA_22A	0.95				63000	98280	58968	Proposed	TONATAND	106	45	1
17	PO_CH_IK_MA_24	2.02				9500	14820	8892	Proposed	TONATAND	106	45	98
18	PO_CH_IK_MA_24A	0.53				20200	31512	18907.2	Proposed	TONATAND	106	45	98
19	PO_CH_IK_MA_24B	0.25				5300	8268	4960.8	Proposed	TONATAND	106	45	98
20	PO_CH_IK_MA_24C	1.94				2500	3900	2340	Proposed	NAGWAN	104	7	98
21	PO_CH_IK_MA_25	0.28				19400	30264	18158.4	Proposed	NAGWAN	104	7	539
22	PO_CH_IK_MA_26_27	1.75				2800	4368	2620.8	Proposed	NAGWAN	104	7	539
23	PO_CH_IK_MA_27A	0.54				17500	27300	16380	Proposed	NAGWAN	104	7	2349
24	PO_CH_IK_MA_27B	0.79				5400	8424	5054.4	Proposed	NAGWAN	104	7	2349
25	PO_CH_IK_MA_28	0.99				7900	12324	7394.4	Proposed	BHADULI	263	7	2
26	PO_CH_IK_MA_29	4.49				9900	15444	9266.4	Proposed	BHADULI	263	7	2
27	PO_CH_IK_MA_30	1.54				44900	70044	42026.4	Proposed	BHADULI	263	7	3
28	PO_CH_GD_MA_31	1.19				15400	24024	14414.4	Proposed	BHADULI	263	7	37
29	PO_CH_GD_MA_32	0.83				11900	18564	11138.4	Proposed				
30	PO_CH_GD_MA_33	1.94				8300	12948	7768.8	Proposed				
31	PO_CH_GD_MA_34	0.42				19400	30264	18158.4	Proposed				
32	PO_CH_GD_MA_35	0.51				4200	6552	3931.2	Proposed				
33	PO_CH_GD_MA_36	1.92				5100	7956	4773.6	Proposed				
34	PO_CH_GD_MA_37	0.46				19200	29952	17971.2	Proposed				
35	PO_CH_GD_MA_38	0.66				4600	7176	4305.6	Proposed				
37	PO_CH_GD_MA_43	3.93				6600	10296	6177.6	Proposed				
38	PO_CH_GD_MA_44	1.98			Yes, Area:5.91	39300	61308	36784.8	Proposed				
39	PO_CH_PG_MA_46	1.64				19800	30888	18532.8	Proposed				
40	PO_CH_PG_MA_47	0.85			Yes, Area:3.25 Ha.	16400	25584	15350.4	Proposed				
41	PO_CH_PG_MA_48	0.76				8500	13260	7956	Proposed				
42	PO_CH_PG_MA_50	1.45				7600	11856	7113.6	Proposed				
43	PO_CH_PG_MA_51	4.22			Yes, Area:6.11 Ha.	14500	22620	13572	Proposed				
44	PO_CH_PG_MA_53	0.44				42200	65832	39499.2	Proposed				
45	PO_CH_PG_MA_54	0.43				4400	6864	4118.4	Proposed				
46	PO_CH_PG_MA_55	2.47			NO	4300	6708	4024.8	Proposed				
47	PO_CH_PG_MA_56	0.36			NO	24700	38532	23119.2	Proposed				
					Yes,	3600	5616	3369.6	Proposed				

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48	PO_CH_PG_MA_57	0.31			Area:0.67	3100	4836	2901.6	Proposed					
49	PO_CH_PG_MA_58	0.18			Yes, Area:0.65	1800	2808	1684.8	Proposed					
50	PO_CH_PG_MA_59	0.47				4700	7332	4399.2	Proposed					
51	PO_CH_PG_MA_60	0.47				4700	7332	4399.2	Proposed					
52	PO_CH_PG_MA_61	0.31			Yes, Area:3.67 Ha.	3100	4836	2901.6	Proposed					
53	PO_CH_PG_MA_61A	0.26				2600	4056	2433.6	Proposed					
54	PO_CH_SR_MA_61B	1.14				11400	17784	10670.4	Proposed					
55	PO_CH_SR_MA_62	0.39				3900	6084	3650.4	Proposed					
56	PO_CH_SR_MA_63	1.10				11000	17160	10296	Proposed					
57	PO_CH_PG_MA_64	1.16			NO	11600	18096	10857.6	Proposed					
58	PO_CH_PG_MA_65	0.62			Yes, Area:2.06 Ha.	6200	9672	5803.2	Proposed					
59	PO_CH_PG_MA_66	0.31				3100	4836	2901.6	Proposed					
60	PO_CH_PG_MA_67	0.68				6800	10608	6364.8	Proposed					
61	PO_CH_PG_MA_68	0.45				4500	7020	4212	Proposed					
62	PO_CH_PG_MA_69	2.35			Yes, Area:4.50 Ha.	23500	36660	21996	Proposed					
63	PO_CH_PG_MA_70	0.45				4500	7020	4212	Proposed					
64	PO_CH_PG_MA_73	0.40				4000	6240	3744	Proposed					
65	PO_CH_PG_MA_74	0.79				7900	12324	7394.4	Proposed					
66	PO_CH_PG_MA_76	0.51				5100	7956	4773.6	Proposed					
67	PO_CH_PG_MA_79	0.57			NO	5700	8892	5335.2	Proposed					

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State Level Environment Impact Assessment Authority * Jharkhand, Ranchi *
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Gopal Kumar Das

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To : Gopal Kumar Das <dmo-chatra@jharkhandmail.gov.in>

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कार्यालय, अंचल अधिकारी, कुन्दा।

Sl. No	POTENTIAL SANDBAR	AREA_ Ha.	Distance in Km from PA/BR/WC	Distance from forest Area (in Km)	Mining Lease within 500 meters (if Yes Cluster Area)	Depth in meter	Bulk Density	Geological in CUM considering digging depth max As 1 meters	Geological in Tonnes/Annum	60 % of Geological Total excavation in Tonnes /Annum	Proposed	Thana No	Khata No.	Khasra No.	Potential a Details, Village PO, Block
193	PO_CH_KD_MH_73	4.12			Yes, Area: 9.92Ha.	1	1.6	41200	65096	39057.6	Proposed	137	1	6	[illegible]
194	PO_CH_KD_MH_74A	0.09			NO	1	1.6	900	1422	853.2	Proposed	165	42	19	[illegible]
195	PO_CH_KD_MH_74B	0.24			Yes, Area: 0.38Ha.	1	1.6	2400	3792	2275.2	Proposed	165	42	19	[illegible]
196	PO_CH_KD_MH_74C	0.14				1	1.6	1400	2212	1327.2	Proposed	137	1	6	[illegible]
197	PO_CH_KD_MH_74D	0.17			Yes, Area: 0.34Ha.	1	1.6	1700	2686	1611.6	Proposed	155	25	50	[illegible]
198	PO_CH_KD_MH_74E	0.17				1	1.6	1700	2686	1611.6	Proposed	152	59	48	[illegible]

11/3/23

अंचल अधिकारी
कुन्दा, बतरा

11/3/23

State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi

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कार्यालय अंचल अधिकारी, लावालौंग।

प्रेषक, पत्रांक 67 दिनांक 11/03/23

अंचल अधिकारी,
लावालौंग।

सेवा में,

जिला खनन पदाधिकारी,
चतरा।

विषयः— अंचल अन्तर्गत बालू घाटों का भूमि प्रतिवेदन का प्रेषण।

प्रसंगः— भवदीय पत्रांक–234/खनन,चतरा दिनांक–10.03.2023

महाशय,

उपर्युक्त प्रसंगाधीन विषयक कहना है कि अंचल लावलौंग अन्तर्गत बालू घाटों का भूमि जिन्हें नये बालू घाट के रूप में चिन्हित किया जा सकता है का प्रतिवेदन निम्नांकित है, :—

क्र0	मौजा	थाना संख्या	खाता संख्या	प्लॉट संख्या	रकबा	नदी का नाम	अभ्युक्ति
1	हुडुम	51	110	812	24 एकड	मानत नदी	
2	करमा	77	54	671	3.41 एकड	राईज दहा नदी	
3	करमा	77	54	671/681	0.69 एकड	राईज दहा नदी	

प्रतिवेदन सादर समर्पित।

विश्वासभाजन,

11/03/23.

अंचल अधिकारी,
लावालौंग।

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★ Approved

Email- dso.chatra@jharkhandmail.gov.in [1]

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कार्यालय अंचल अधिकारी मयुरहण्ड।

पत्रांक.....

दिनांक.....

प्रेषक,

अंचल अधिकारी,
मयुरहण्ड।

सेवा में,

जिला खनन पदाधिकारी,
चतरा।

विषयः— चतरा जिला का District Survey Report (DSR) Sand का प्रतिवेदन प्रेषण।

प्रसंगः— भवदीय पत्रांक–234/खनन, दिनांक–10.03.2023

महाशय,

उपर्युक्त विषयक प्रसांगिक पत्र के आलोक में कहना है कि अंचल/प्रखण्ड मयुरहण्ड अन्तर्गत चिन्हित बालु घाटों का संबंधित राजस्व उपनिरीक्षक के जाँच प्रतिवेदन के अनुसार घाटों का चिन्हित किया गया जो विहित प्रपत्र के साथ भेजा जा रहा है। जो निम्नवत है:—

क्र0स0	ग्राम का नाम	थाना संख्या	अंचल/प्रखण्ड	खाता संख्या	प्लॉट संख्या	अभ्युक्ति
1	2	3	4	5	6	7
1	सोकी	218	मयुरहण्ड	142	328, 329, 6803 एवं 4431	
2	पेटादेरी	205	मयुरहण्ड	41	1408	
3	महुगाई	207	मयुरहण्ड	24	1247	

अतः प्राप्ति स्वीकार करने की कृपा की जाय।

विश्वासभाजन,

अंचल अधिकारी,
मयुरहण्ड।

ज्ञापांक - 119 दिनांक - 11.3.23

प्रतिलिपि:- उपायुक्त, चतरा को सादर सूचनार्थ प्रेषित

अंचल अधिकारी
मयुरहण्ड

State Level Environment Impact Assessment Authority * Jharkhand, Ranchi
Approved

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कार्यालय अंचल अधिकारी मयुरहण्ड।

पत्रांक 122

दिनांक 11/03/23

प्रेषक,

अंचल अधिकारी,
मयुरहण्ड।

सेवा में,

जिला खनन पदाधिकारी,
चतरा।

विषयः- अंचल मयुरहण्ड अन्तर्गत DSR Sand के संदर्भ में चिन्हित बालुघाटों का Kml File & Potential Sandbar की सूचि उपलब्ध कराने के संबंध में।

प्रसंगः- भवदीय पत्रांक–234/खनन, दिनांक–10.03.2023

महाशय,

उपर्युक्त विषयक प्रसांगिक पत्र के आलोक में कहना है कि अंचल/प्रखण्ड मयुरहण्ड अन्तर्गत Kml File & Potential Sandbar की उपलब्ध सूचि के अनुसार घाटों की संख्या शुन्य है।

अतः प्राप्ति स्वीकार करने की कृपा की जाय।

विश्वासभाजन,

11/03/23

अंचल अधिकारी,
मयुरहण्ड।

ज्ञापांक 122

दिनांक 11/03/23

प्रतिलिपि–उपायुक्त, चतरा को सादर सूचनार्थ प्रेषित।

11/3/23

अंचल अधिकारी,
मयुरहण्ड।

State Level Environment Impact Assessment Authority
Approved
Jharkhand Ranchi

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स्वच्छ चतरा, स्वस्थ चतरा

कार्यालय अंचल अधिकारी, पत्थलगडा (चतरा)

पत्रांक....91..... दिनांक.11/03/23

प्रेषक,

अंचल अधिकारी,
पत्थलगडा ।

सेवा में,

जिला खनन पदाधिकारी,
चतरा ।

विषय :- पत्थलगडा अंचल के अंतर्गत District Survey Report Sand प्रतिवेदन का प्रेषण ।

प्रसंग :- आपका पत्रांक-234/खनन, दिनांक-10.08.2023

महाशय,

उपर्युक्त विषयक एवं प्रसंगीक पत्र के आलोक पत्थलगडा अंचल के अंतर्गत District Survey Report Sand प्रतिवेदन विहित प्रपत्र में तैयार कर इस पत्र के साथ आवश्यक कार्य हेतु भेजा जा रहा है ।

अतः अनुरोध है कि प्राप्ति स्वीकार की जाये ।

अनुलग्नक यथोक्त ।

विश्वासभाजन

11/03/23

अंचल अधिकारी,
पत्थलगडा

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★ Approved

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कार्यालय अंचल अधिकारी, पत्थलगड़ा
(बालु घाट से संबंधित प्रतिवेदन विहित प्रपत्र में)

Sl.No	POTENTIAL SANDBAR	AREA_Ha.	Distance in Km from PA/BR/WC	Distance from forest Area (in Km)	Mining Lease within 500 meters (if Yes Cluster Area)	Depth in meter	Bulk Density	Geological in CUM considering digging depth max As 1 meters	Geological in Tonnes/Annum	60 % of Geological Total excavation in Tonnes /Annum	Proposed	Thana No	Khata No.	Khasra No.	Potentials Details, Village PO, Block
1	PO_CH_PG_MA_45	1.64				1	1.56	16400	25912	15547.2	Proposed	175	53	1045	khara
2	PO_CH_PG_MA_47	0.85				1	1.56	8500	13430	8058	Proposed	175	53	1045	khara
3	PO_CH_PG_MA_48	0.76			Yes, Area:3.25 Ha.	1	1.56	7600	12008	7204.8	Proposed	175	53	1045	khara
4	PO_CH_PG_MA_50	1.45				1	1.56	14500	22910	13746	Proposed	67	119	758/651	Nongaon
5	PO_CH_PG_MA_51	4.22				1	1.56	42200	66676	40005.6	Proposed	67	119	758/651	Nongaon
6	PO_CH_PG_MA_53	0.44			Yes, Area:6.11 Ha.	1	1.56	4400	6952	4171.2	Proposed	60	171	2031/1535	Singhani
7	PO_CH_PG_MA_54	0.43			NO	1	1.56	4300	6794	4076.4	Proposed	60	171	2031/1535	Singhani
8	PO_CH_PG_MA_55	2.47			NO	1	1.56	24700	39026	23415.6	Proposed	66	136	9269/27,299	Tetariya
9	PO_CH_PG_MA_56	0.36				1	1.56	3600	5688	3412.8	Proposed	55	104	1026	Oumbi
10	PO_CH_PG_MA_57	0.31			Yes, Area:0.67 Ha.	1	1.56	3100	4898	2938.8	Proposed	55	104	1026	Oumbi
11	PO_CH_PG_MA_58	0.18				1	1.56	1800	2844	1706.4	Proposed	54	131	1572	Belhar
12	PO_CH_PG_MA_59	0.47			Yes, Area 0.65 Ha.	1	1.56	4700	7426	4455.6	Proposed	54	131	1572	Belhar
13	PO_CH_PG_MA_60	0.47				1	1.56	4700	7426	4455.6	Proposed	56	140	867	Barwadih
14	PO_CH_PG_MA_61	0.31			Yes, Area:3.67 Ha.	1	1.56	3100	4898	2938.8	Proposed	56	140	867	Barwadih
15	PO_CH_PG_MA_61A	0.26				1	1.56	2600	4108	2464.8	Proposed	60	171	2031	Singhani
16	PO_CH_PG_MA_64	1.16			NO	1	1.56	11600	18328	10996.8	Proposed	66	136	9269/27,299	Tetariya
17	PO_CH_PG_MA_65	0.62				1	1.56	6200	9796	5877.6	Proposed	175	53	1	khara
18	PO_CH_PG_MA_66	0.31			Yes, Area:2.06 Ha.	1	1.56	3100	4898	2938.8	Proposed	175	53	1	khara
19	PO_CH_PG_MA_67	0.68				1	1.56	6800	10744	6446.4	Proposed	175	53	1	khara
20	PO_CH_PG_MA_68	0.45				1	1.56	4500	7110	4266	Proposed	175	53	1	khara
21	PO_CH_PG_MA_69	2.35				1	1.56	23500	37130	22278	Proposed	181	36	1	Shal
22	PO_CH_PG_MA_70	0.45				1	1.56	4500	7110	4266	Proposed	181	36	1	Shal
23	PO_CH_PG_MA_73	0.40				1	1.56	4000	6320	3792	Proposed	181	36	1	Shal
24	PO_CH_PG_MA_74	0.79				1	1.56	7900	12482	7489.2	Proposed	181	36	1	Shal
25	PO_CH_PG_MA_76	0.51			Yes, Area:4.50 Ha.	1	1.56	5100	8058	4834.8	Proposed	183	14	328.329	Meramghara
26	PO_CH_PG_MA_79	0.57			NO	1	1.56	5700	9006	5403.6	Proposed	183	14	325.330	Meramghara

पत्रांक...91..... दिनांक 11/03/23

प्रतिलिपि – जिला खनन पदाधिकारी, गुमला को सादर सूचनार्थ प्रेषित ।

अंचल अधिकारी
पत्थलगड़ा ।

Approved
Impact Assessment Authority * State Level Environment * Jharkhand, Ranchi

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कार्यालय,अंचल अधिकारी, प्रतापपुर।

पत्रांक...154...

दिनांक 11/03/2023

प्रेषक,

अंचल अधिकारी,
प्रतापपुर।

सेवा में,

जिला खनन पदाधिकारी,
चतरा।

विषयः— अंचल प्रतापपुर के अन्तर्गत District Survey Report (D.S.R) Sand प्रतिवेदन प्रेषण के संबंध में।

प्रसंगः— Rian Environ Private Limited से प्राप्त ई–मेल दिनांक 07.03.2023 एवं आपका पत्रांक 234 / खनन दिनांक 10.08.2023

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के आलोक निदेशक, भू–तत्व खान एवं भू–तत्व विभाग झारखण्ड रॉची द्वारा चतरा जिला के लिए लघु खनिज बालू का सर्वेक्षण जिला रिर्पोट, (D.S.R) तैयार हेतु चयनित Agency Rian Environ Private Limited द्वारा चतरा जिला अंन्तर्गत चिन्हित बालू घाटो का .KML File एवं Potential Sandbar की सूची उपलब्ध कराते हुए प्रस्तावित सभी बालू घाटो का मौजा, थाना सं0, खाता सं0, प्लॉट सं0 एवं प्रखण्ड का नाम से संबंधित प्रतिवेदन की मॉग की गई है। उक्त आलोक में अंचल प्रतापपुर के अन्तर्गत विहित प्रपत्र में प्रतिवेदन मूल में तैयार कर इस पत्र के साथ संलग्न कर अग्रेतर कारवाई हेतु भेजी जा रही है।

कृप्या प्राप्ति स्वीकार की जाय।

विश्वासभाजन

11/03/23

अंचल अधिकारी,
प्रतापपुर।

State Level Environment Impact Assessment Authority * Jharkhand, Ranchi * Approved

Scanned with CamScanner

ANCHAL PRATAPPUR

	POTENTIAL SANDBAR	AREA_Ha.	Distance in Km from PA/BR/WC	Distance from forest Area (in Km)	Mining Lease within 500 meters (If Yes Cluster Area)	Geological in CUM considering digging depth max As 1 meters	Geological in Tonnes	60 % of Geological Total excavation in Tonnes /Annum	Proposed	VILLAGE	THANA NO.	KHATA	PLOT
1	PO_CH_PR_MH_01_02	7.52			Yes, Area: 10.43 Ha.	75200	116560	69936	Proposed	KASIBAR	2	22	41
2	PO_CH_PR_MH_03	2.91				29100	45105	27063	Proposed	KASIBAR	2	34	1
3	PO_CH_PR_MH_05	4.03				40300	62465	37479	Proposed	KASIBAR	2	34	185
4	PO_CH_PR_MH_06	0.76			NO	7600	11780	7068	Proposed		BIHAR		
5	PO_CH_PR_MH_07	0.46				4600	7130	4278	Proposed	BHARHI	46	96	358
6	PO_CH_PR_MH_08	0.53			Yes, Area: 0.99 Ha.	5300	8215	4929	Proposed	BHARHI	46	96	358
7	PO_CH_PR_MH_11	0.53				5300	8215	4929	Proposed	BHUSIYA	49	44	90
8	PO_CH_PR_MH_12	0.12				1200	1860	1116	Proposed	BHUSIYA	49	44	90
9	PO_CH_PR_MH_13	0.26				2600	4030	2418	Proposed	BHUSIYA	49	44	90
10	PO_CH_PR_MH_14	0.36			Yes, Area: 2.33Ha.	3600	5580	3348	Proposed	BHUSIYA	49	44	90
11	PO_CH_PR_MH_15	0.30				3000	4650	2790	Proposed	BHARHI	46	96	358
12	PO_CH_PR_MH_15A	0.25				2500	3875	2325	Proposed	BHUSIYA	49	44	90
13	PO_CH_PR_MH_16	0.51				5100	7905	4743	Proposed	BHUSIYA	49	44	90
14	PO_CH_PR_MH_18A	0.38			Yes, Area: 1.11Ha.	3800	5890	3534	Proposed	HUMAJANG	48	1	27
15	PO_CH_PR_MH_19_20	0.73				7300	11315	6789	Proposed	HUMAJANG	48	1	27
16	PO_CH_PR_MH_25	0.57			Yes, Area: 2.05Ha.	5700	8835	5301	Proposed	LIPTA	67	10	281
17	PO_CH_PR_MH_26_27	0.30				3000	4650	2790	Proposed	LIPTA	67	10	282
18	PO_CH_PR_MH_29	0.22				2200	3410	2046	Proposed	LIPTA	67	10	282
19	PO_CH_PR_MH_33	0.96				9600	14880	8928	Proposed	BANSI	66		50
20	PO_CH_PR_MH_34	0.19			NO	1900	2945	1767	Proposed	NANAIKALA	89	60	66
21	PO_CH_PR_MH_36	0.19			NO	1900	2945	1767	Proposed	NANAIKALA	89	60	66
22	PO_CH_PR_MH_41	1.47			Yes, Area: 2.68Ha.	14700	22785	13671	Proposed	GHORIGHAT	BIHAR		
23	PO_CH_PR_MH_43	1.21				12100	18755	11253	Proposed	GHORIGHAT	BIHAR		
24	PO_CH_PR_MH_45	15.74			NO	157400	243970	146382	Proposed	BAJRAHI	45		171, 1
25	PO_CH_PR_MH_49	10.93			NO	109300	169415	101649	Proposed	RAJPUR	72	61	486, 474
26	PO_CH_PR_MH_51	7.75			Yes, Area: 8.87Ha.	77500	120125	72075	Proposed	KAURA	75	162	651
27	PO_CH_PR_MH_51A	1.12				11200	17360	10416	Proposed	KAURA	75	162	651
28	PO_CH_PR_MH_54	4.60			NO	46000	71300	42780	Proposed	CHARKAKHURD	121		354
29	PO_CH_PR_MH_60	0.48			Yes, Area: 1.73Ha.	4800	7440	4464	Proposed	FAGUA	79	1	1
30	PO_CH_PR_MH_62	1.25				12500	19375	11625	Proposed	FAGUA	79	1	1
31	PO_CH_PR_MH_64	2.46			Yes, Area: 6.63Ha.	24600	38130	22878	Proposed	LIPTA	116		247
32	PO_CH_PR_MH_65	2.02				20200	31310	18786	Proposed	JIRABAR	132	1	157
33	PO_CH_PR_MH_66	2.15				21500	33325	19995	Proposed	JIRABAR	132	1	8
34	PO_CH_PR_MH_67	0.74			Yes, Area: 9.92Ha.	7400	11470	6882	Proposed	SENDURIYA	134	18	1
35	PO_CH_PR_MH_69	1.36				13600	21080	12648	Proposed	SENDURIYA	134	18	36
36	PO_CH_PR_MH_70	1.94				19400	30070	18042	Proposed	HESATU	135	3	102
37	PO_CH_PR_MH_71	1.14				11400	17670	10602	Proposed	HESATU	135	3	102
38	PO_CH_PR_MH_72	0.62				6200	9610	5766	Proposed	HESATU	135	3	102

ANCHAL AMEEN

CO. PRATAPPUR 11/05/2023

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कार्यालय अंचल अधिकारी सिमरिया।

पत्रांक 129 दिनांक 11/03/23

प्रेषक

अंचल अधिकारी,
सिमरिया।

सेवा में,

जिला खनन पदाधिकारी
चतरा।

विषयः— अंचल सिमरिया अन्तर्गत DSR Sand के संदर्भ में चिन्हित बालूघाटों का Kml File एवं Potential Sandbar की सूची उपलब्ध कराने के संबंध में।

प्रसंगः— भवदीय पत्रांक 234/खनन, दिनांक 10.03.2023

महाशय,

उपर्युक्त विषयक एवं प्रासंगिक पत्र के संदर्भ में कहना है कि अंचल सिमरिया अन्तर्गत DSR Sand के संदर्भ में चिन्हित बालूघाटों का भूमि प्रतिवेदन राजस्व उपनिरीक्षक एवं अंचल निरीक्षक से प्राप्त है जो निम्नवत है:—

क्रमांक	POTENTIAL SANDBAR	अंचल	मौजा	थाना सं0	खाता सं0	प्लॉट सं0	अभ्युक्ति
54	PO_CH_SR_MA_61B	सिमरिया	तपसा	171	82	1/661	
55	PO_CH_SR_MA_62	सिमरिया	तपसा	171	82	5/660	
56	PO_CH_SR_MA_63	सिमरिया	तपसा	171	82	600	

अतः प्रतिवेदन सादर समर्पित।

11/3/23

विश्वासभाजन
अंचल अधिकारी,
सिमरिया
11/3/23

State Level Environment Impact Assessment Authority * Jharkhand, Ranchi * Approved

Scanned with CamScanner

कार्यालय :– अंचल अधिकारी, टण्डवा (चतरा)

tandwa.co@gmail.com

पत्रांक 348 दिनांक 11/03/2023

प्रेषक,

अंचल अधिकारी,
टण्डवा

सेवा में,

जिला खनन पदाधिकारी,
चतरा।

विषय :– अंचल टण्डवा अन्तर्गत DSR Sand के संदर्भ में चिन्हित बालूघाटों का Kml File Potential Sandbar की सूची उपलब्ध कराने के संबंध में।

प्रसंग :– भवदीय पत्रांक–234/खनन, दिनांक– 10.03.2023 ।

महाशय,

उपर्युक्त विषयक एवं प्रसांगिक पत्र के संदर्भ में कहना है कि अंचल टण्डवा अन्तर्गत DSR Sand के संदर्भ में चिन्हित बालूघाटों का भूमि प्रतिवेदन राजस्व उप निरीक्षक एवं अंचल निरीक्षक से प्राप्त है जो निम्नवत है:–

Sl.NO	POTENTIAL SANDBAR	अंचल	मौजा	थाना नं0.	खाता	प्लॉट	अभ्युक्ति।
1	PO_CH_TD_DA_22	टण्डवा	कुटकी	95	44	716	
2	PO_CH_TD_DA_21		कुटकी	95	44	727	
3	PO_CH_TD_DA_24		बेंती	97	98	1476	
4	PO_CH_TD_DA_17		बेंती	97	98	716	
5	PO_CH_TD_DA_20		कुटकी	95	44	716	
6	PO_CH_TD_DA_19		कुटकी	95	44	716	
7	PO_CH_TD_BI_52		घोडा	76	01	25	
8	PO_CH_TD_BI_51		लरंगा	73	29	01	
9	PO_CH_TD_BI_50		लरगा	76	29	188	
10	PO_CH_TD_BI_47		दुन्दुआ	57	81	887	
11	PO_CH_TD_BI_46		लरंगा	73	47	794	
12	PO_CH_TD_BI_45		लरंगा	73	29	406	
13	PO_CH_TD_BI_42		राहम	62	416	2980	
14	PO_CH_TD_BI_38		राहम	62	433	2900	
15	PO_CH_TD_BI_32		राहम	62	433	2900	
16	PO_CH_TD_BI_33		राहम	62	433	2900	
17	PO_CH_TD_BI_34		राहम	62	433	2900	
18	PO_CH_TD_BI_35		राहम	62	416	2980	
19	PO_CH_TD_BI_27		गाड़ीलौंग	59	161	01	
20	PO_CH_TD_BI_28		गाड़ीलौंग	59	161	01	
21	PO_CH_TD_BI_29		गाड़ीलौंग	59	161	01	

अतःप्रतिवेदन सादर समर्पित।

विश्वासभाजन,

अंचल अधिकारी,
टण्डवा
11.03.23

State Level Environment Impact Assessment Authority * Jharkhand, Ranchi *
Approved

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कार्यालय अंचल अधिकारी कान्हाचट्टी, चतरा।

पत्रांक 124 / दिनांक 11/03/2023

प्रेषक,

अंचल अधिकारी
कान्हाचट्टी।

सेवा में,

जिला खनन पदाधिकारी,
चतरा।

विषय – अंचल कान्हाचट्टी अन्तर्गत DSR Sand के संदर्भ में चिन्हित बालूघाटों का .Kml File एंव Potential Sandbar की सूची उपलब्ध कराने के संबंध में।

प्रसंग – भवदीय पत्रांक 234/खनन, चतरा, दिनांक 10.03.2023

महाशय्

उपर्युक्त विषय एंव प्रसंग के आलोक में कहना है कि अंचल कान्हाचट्टी अन्तर्गत DSR Sand के संदर्भ में चिन्हित बालूघाटों का .Kml File एंव Potential Sandbar की सूची संबंधित राजस्व उपनिरीक्षक/सरकारी अमीन/अंचल निरीक्षक द्वारा प्रस्तावित सभी बालूघाटों का मौजा, थाना नं0, प्लॉट नं0, संबंधित प्रतिवेदन उपलब्ध कराया गया है। जिसे इस पत्र के साथ संलग्न कर भेजा जा रहा है।

विश्वासभाजन

अनु0:– यथोक्त।

11/3/23
अंचल अधिकारी,
कान्हाचट्टी।

ज्ञापांक 124 / दिनांक 11/03/2023

प्रतिलिपि:– 1. अपर समाहर्ता, चतरा को सादर सूचनार्थ समर्पित।
2. उपायुक्त, चतरा को सादर सूचार्थ समर्पित।

11/3/23
अंचल अधिकारी,
कान्हाचट्टी।
11/03/2023

State Level Environment Impact Assessment Authority * Jharkhand, Ranchi * Approved

Email Id- bdokct@gmail.com

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CIRCLE OFFICE - KANHACHATTI

SlNo	POTENTIAL SANDBAR	AREA_Ha.	Distance in Km from PA/BR/WC	Distance from forest Area (in Km)	Mining Lease within 500 meters (if Yes Cluster Area)	Depth in meter	Bulk Density	Geological in CUM considering digging depth max As 1 meters	Geological in Tonnes/Annum	60 % of Geological Total excavation in Tonnes /Annum	Proposed	Thana No	Khata No.	Khasra No.	Potentials Details, Village PO, Block
1	PO_CH_KC_GH_09	2.42				1	1.55	24186.51	37489.0905	22493.4543	Proposed	32	22	316	भदुआ
2	PO_CH_KC_GH_10	0.55				1	1.55	5476.17	8488.0635	5092.8381	Proposed	30	22	1,4	दरीडाड
3	PO_CH_KC_GH_10A	0.16				1	1.55	1565.37	2426.3235	1455.7941	Proposed	30	22	1,4	दरीडाड
4	PO_CH_KC_GH_10B	0.49				1	1.55	4939.72	7656.566	4593.9396	Proposed	30	22	1,4	दरीडाड
5	PO_CH_KC_GH_11	0.58				1	1.55	5822.83	9025.3865	5415.2319	Proposed	30	22	1,4	दरीडाड
6	PO_CH_KC_GH_12	0.66				1	1.55	6613.93	10251.5915	6150.9549	Proposed	30	22	1,4	दरीडाड
7	PO_CH_KC_GH_13	0.38				1	1.55	3828.76	5934.578	3560.7468	Proposed	30	22	45,1	दरीडाड
8	PO_CH_KC_GH_14A	0.26				1	1.55	2568.25	3980.7875	2388.4725	Proposed	30	22	50	दरीडाड
9	PO_CH_KC_GH_14B	0.17				1	1.55	1669.24	2587.322	1552.3932	Proposed	30	22	50	दरीडाड
10	PO_CH_KC_GH_14C	0.37				1	1.55	3731.46	5783.763	3470.2578	Proposed	30	22	50	दरीडाड
11	PO_CH_KC_GH_14D	0.16				1	1.55	1608.19	2492.6945	1495.6167	Proposed	30	22	50	दरीडाड
12	PO_CH_KC_GH_15	0.51				1	1.55	5085.59	7882.6645	4729.5987	Proposed	30	22	50	दरीडाड
13	PO_CH_KC_GH_15A	0.31				1	1.55	3142.77	4871.2935	2922.7761	Proposed	30	22	50	दरीडाड
14	PO_CH_KC_GH_16	0.34			Yes-9.80	1	1.55	3379.74	5238.597	3143.1582	Proposed	30	22	50	दरीडाड
15	PO_CH_KC_GH_17	0.76				1	1.55	7600.7	11781.685	7068.651	Proposed	30	22	50	दरीडाड
16	PO_CH_KC_GH_18	0.61				1	1.55	6113.05	9475.2275	5685.1365	Proposed	30	22	50	दरीडाड
17	PO_CH_KC_GH_19	0.68				1	1.55	6841.46	10604.263	6362.5578	Proposed	44	58	1	विंधाटी
18	PO_CH_KC_GH_20A	0.40				1	1.55	3964.82	6145.471	3687.2826	Proposed	44	58	1	विंधाटी
19	PO_CH_KC_GH_20B	0.47				1	1.55	4735.19	7339.5445	4403.7267	Proposed	44	58	1	विंधाटी
20	PO_CH_KC_GH_20C	0.17				1	1.55	1722.99	2670.6345	1602.3807	Proposed	44	58	1	विंधाटी
21	PO_CH_KC_GH_21A	0.29				1	1.55	2929.95	4541.4225	2724.8535	Proposed	44	58	1	विंधाटी
22	PO_CH_KC_GH_22	0.35				1	1.55	3538.15	5484.1325	3290.4795	Proposed	44	58	1	विंधाटी
23	PO_CH_KC_GH_22A	0.43				1	1.55	4319.05	6694.5275	4016.7165	Proposed	44	58	1	विंधाटी
24	PO_CH_KC_GH_22B	0.68				1	1.55	6802.2	10543.41	6326.046	Proposed	44	58	1	विंधाटी
25	PO_CH_KC_GH_22E	1.63				1	1.55	16335.35	25319.7925	15191.8755	Proposed	45	41	1388	हरहर
42	PO_CH_KC_GH_39	0.20			0.44	1	1.55	2008.91	3113.8105	1868.2863	Proposed	40	2	31	कलीया
43	PO_CH_KC_GH_40	0.24				1	1.55	2401.77	3722.7435	2233.6461	Proposed	40	2	31	कलीया
44	PO_CH_KC_GH_40A	0.46				1	1.55	4600.21	7130.3255	4278.1953	Proposed	41	19	76,78	चिरौंद
45	PO_CH_KC_GH_40C	0.16.				1	1.55	1585.67	2457.7885	1474.6731	Proposed	50	105	1497	जमुकिसपुरा
46	PO_CH_KC_MA_01	1.24.			Yes, Area:11.85 Ha.	1	1.56	12400	19592	11755.2	Proposed	28	90	69	बंध

14/03/2023 राज कुमार, रा0उप0नि0
हल्का सं0.....
अंचल कान्हाचट्टी, चतरा

11.03.2023
अमर लाल, प्र0अं0नि0
अंचल कान्हाचट्टी

11/3/23

Approved
Pranchi * Impact Assessment Authority * State Level Environment * Jharkhand

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ANNEXURE-G

(Advertisement Copy/ Public Domain)



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झारखंड सरकार | GOVERNMENT OF JHARKHAND

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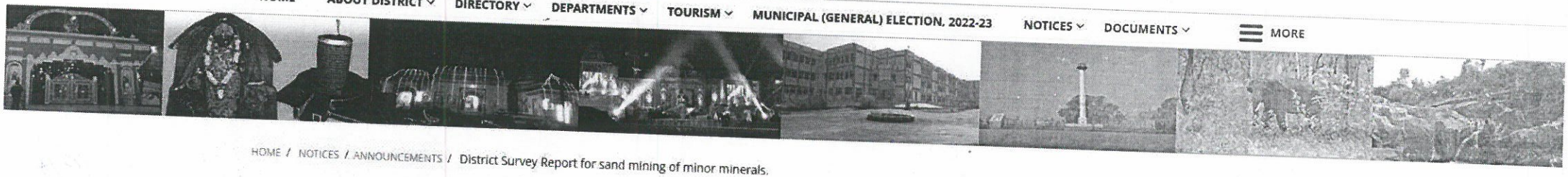

HOME / NOTICES / ANNOUNCEMENTS / District Survey Report for sand mining of minor minerals.

District Survey Report for sand mining of minor minerals.

District Survey Report for sand mining of minor minerals.

Title	Description	Start Date	End Date	File
District Survey Report for sand mining of minor minerals.		17/12/2022	06/01/2023	View (7 MB)

State Level Environment Impact Assessment Authority ★ Jharkhand
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22/12/22

[illegible] खलिहान में शुक्रवार को दोपहर अचानक आग लग गई। इससे पूरा खलिहान जलकर राख हो गया। इस दौरान खलिहान में रखा लगभग एक सौ बोझा धान, दोनाई की गई धान तथा खलिहान में रखा पुआल पूरी तरह जलकर राख हो गया।

[illegible] 70 हजार की क्षति का अनुमान है। हालांकि जहां खलिहान था, वहां आग बुझाने का कोई साधन भी नहीं था, जिसके कारण आग लोग बुझा नहीं पाए। पानी की व्यवस्था काफी दूर थी, जिसके कारण अंतिम क्षण में लोग पानी की व्यवस्था कर [illegible] लगभग क्षीण हो गई थी, लेकिन अंतिम क्षण में हुई बारिश के बाद कर्ज लेकर किसी तरह धान की खेती किया था। इस बार धान भी बहुत अच्छा हुआ था, लेकिन पता नहीं आग कैसे लगी और सब कुछ जलकर स्वाहा हो गया।

जिला खनन कार्यालय, चतरा।

प्रेस विज्ञप्ति

एतद् द्वारा सर्वसाधारण को चतरा जिला में अवस्थित बालूघाटों का संचालन हेतु तैयार Draft DSR (बालू खनिज) को जिले के वेबसाईट NIC Portal– htts://Chatra.nic.in पर 21 दिनों के लिए Public Viewing एवं Comments हेतु Upload किया गया है, जिसे निःशुल्क डाउनलोड कर देखा जा सकता है।

इस संदर्भ में यदि किसी व्यक्ति को कोई आपत्ति अथवा सुझाव देना हो, तो जिला खनन कार्यालय, चतरा में किसी भी कार्यालय कार्य दिवस में सम्पर्क स्थापित कर लिखित रूप में या कार्यालय ई–मेल dmo-chatra@jharkhandmail.gov.in पर आपत्ति अथवा सुझाव दिया जा सकता है।

जिला खनन पदाधिकारी,
चतरा।

PR 285662 Mines and Geology(22-23)D

हजारीबाग नगर निगम, हजारीबाग

अति अल्पकालीन निविदा आमंत्रण सूचना सं. 35/2022–23

1.कार्य का विवरण :–

Group No.	Name of work	Estimated Cost (INR)	Earnest Money (INR)	Cost of BOQ (INR)	Completion period for construction
1.	INSTALLATION OF LED ROPE LIGHT IN DIFFERENT POLE AROUND JHEEL AREA UNDER MUNICIPAL CORPORATION, HAZARIBAG.	9,92,700/-	20,000/-	5,000/-	02 month (60 days)

1. परिमाण विपत्र बिक्री का स्थान तिथि एवं समय : नगर निगम कार्यालय, हजारीबाग दिनांक 30.12.2022 को 11:00 बजे पूर्वाह्न से 2:00 बजे अपराह्न तक
2. निविदा प्राप्ति का स्थान तिथि एवं समय : नगर निगम कार्यालय, हजारीबाग दिनांक 02.01.2023 को 2:00 बजे अपराह्न तक
3. निविदा खोलने का स्थान तिथि एवं समय : नगर निगम कार्यालय, हजारीबाग दिनांक 02.01.2023 को 3:00 बजे अपराह्न से अंतिम निविदा खुलने तक
4. विज्ञापनदाता का पदनाम : कार्यपालक अभियंता, नगर निगम कार्यालय, हजारीबाग।

नोट :– निविदा से संबंधित शर्तें एवं अन्य जानकारी कार्यालय अवधि में नगर निगम कार्यालय में देखा जा सकता है।

Sd/–
कार्यपालक अभियंता
नगर निगम, हजारीबाग

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Jharkhand

PR 285688 Urban Development and Housing(22-23).D

कार्यपालक अभियंता का कार्यालय
ग्रामीण विकास विशेष प्रमंडल, सरायकेला

ई–निविदा आमंत्रण सूचना

ई–निविदा सूचना संख्या :– RDD/SD/SKELLA/21/2022-23

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

आम सूचना

एतद 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 है।

ह0 /–
निदेशक, भूतत्व झारखण्ड, राँची

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

State Level Environment Impact Assessment Authority
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District Mining Office, Chatra

Subject: Regarding Public consultation for District Survey Report of Chatra District.

District Mining Office, Chatra has placed the District Survey Report (DSR) in the public domain in NIC Chatra for obtaining comments of the general public on dated 17.12.2022.

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

District Mining Officer
Chatra

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Jharkhand, Ranchi

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ANNEXURE-H

(Annexure as prescribed in the EMGSM, 2020)



Annexure-I

Details of Sand/M-Sand Sources

a) Rivers:

River Name/M-Sand Plant	Total Stretch of River (in KM)	Type of River (Perennial or Non-Perennial)
Damodor River	14.96	Perennial
Garhi Nadi	24.77	Non-Perennial
Lilajan (Falgu) River	75.18	Perennial
Mohana River	26.05	Perennial
Morhar River	-	Non-Perennial
Baki River	-	Non-Perennial

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

Name of Reservoir/Dams	Maintain/Controlled by State Govt./PSUetc.	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/landownersneed 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

State Level Environment Impact Assessment Authority * Jharkhand, Ranchi * Approved

SL No	POTENTIAL SANDBAR	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:1.56, Depth :1 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing/ Proposed
1	PO_CH_TD_DA_A	Damodar 01 Vill- Ulatu, Block- Tandwa	1.42		NA	Yes, Area:2.42 Ha.	22152	13291.2	Sand	Proposed
2	PO_CH_TD_DA_01	Damodar 02 Vill- Ulatu, Block- Tandwa	0.46		NA		7176	4305.6	Sand	Proposed
3	PO_CH_TD_DA_1A	Damodar 03 Vill- Ulatu, Block- Tandwa	0.54		NA		8424	5054.4	Sand	Proposed
4	PO_CH_TD_DA_03	Damodar 04 Vill- Ulatu, Block- Tandwa	0.37		NA	Yes, Area:8.12Ha.	5772	3463.2	Sand	Proposed
5	PO_CH_TD_DA_04	Damodar 05 Vill- Ulatu, Block- Tandwa	0.79		NA		12324	7394.4	Sand	Proposed
6	PO_CH_TD_DA_4A	Damodar 06 Vill- Ulatu, Block- Tandwa	0.25		NA		3900	2340	Sand	Proposed
7	PO_CH_TD_DA_4B	Damodar 07 Vill- Ulatu, Block- Tandwa	0.35		NA		5460	3276	Sand	Proposed

8	PO_CH_TD_DA_05	Damodar 08 Vill- Ulatu, Block- Tandwa	2.36		NA		36816	22089.6	Sand	Proposed
9	PO_CH_TD_DA_06	Damodar 09 Vill- Ulatu, Block- Tandwa	0.63		NA		9828	5896.8	Sand	Proposed
10	PO_CH_TD_DA_6A	Damodar 10 Vill- Ulatu, Block- Tandwa	1.23		NA		19188	11512.8	Sand	Proposed
11	PO_CH_TD_DA_6B	Damodar 11 Vill- Ulatu, Block- Tandwa	0.47		NA		7332	4399.2	Sand	Proposed
12	PO_CH_TD_DA_6C	Damodar 12 Vill- Ulatu, Block- Tandwa	1.1		NA		17160	10296	Sand	Proposed
13	PO_CH_TD_DA_07	Damodar 13 Vill- Ulatu, Block- Tandwa	0.57		NA		8892	5335.2	Sand	Proposed
14	PO_CH_TD_DA_09	Damodar 14 Vill- Korilara, Block- Tandwa	0.88		NA	Yes, Area:6.54Ha.	13728	8236.8	Sand	Proposed
15	PO_CH_TD_DA_10	Damodar 15 Vill- Korilara, Block- Tandwa	2.74		NA		42744	25646.4	Sand	Proposed
16	PO_CH_TD_DA_11	Damodar 16 Vill- Korilara, Block- Tandwa	1.71		NA		26676	16005.6	Sand	Proposed

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17	PO_CH_TD_DA_12	Damodar 17 Vill- Korilara, Block- Tandwa	1.21		NA		18876	11325.6	Sand	Proposed
18	PO_CH_TD_DA_14	Damodar 18 Vill- Korilara, Block- Tandwa	3.74		NA	Yes, Area:36.08 Ha.	58344	35006.4	Sand	Proposed
19	PO_CH_TD_DA_15	Damodar 19 Vill- Dembua, Block- Tandwa	11.4		NA		177840	106704	Sand	Proposed
20	PO_CH_TD_DA_16	Damodar 20 Vill- Dembua, Block- Tandwa	3.34		NA		52104	31262.4	Sand	Proposed
21	PO_CH_TD_DA_17	Damodar 21 Vill- Henjda, Block- Tandwa	4.41		NA		68796	41277.6	Sand	Proposed
22	PO_CH_TD_DA_18	Damodar 22 Vill- Henjda, Block- Tandwa	3.5		NA		54600	32760	Sand	Proposed
23	PO_CH_TD_DA_19	Damodar 23 Vill- Kutki, Block- Tandwa	3.44		0.62		53664	32198.4	Sand	Proposed
24	PO_CH_TD_DA_20	Damodar 24 Vill- Kutki, Block- Tandwa	3.05		0		47580	28548	Sand	Proposed
25	PO_CH_TD_DA_21	Damodar 25 Vill- Kutki,	3.2		0.62		49920	29952	Sand	Proposed

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		Block-Tandwa								
26	PO_CH_TD_DA_22	Damodar 26 Vill- Kutki, Block-Tandwa	0.81		NA	NO	12636	7581.6	Sand	Proposed
27	PO_CH_TD_DA_24	Damodar 27 Vill- Benti, Block-Tandwa	0.6		NA	NO	9360	5616	Sand	Proposed

Sl.No	POTENTIAL SANDBAR	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:1.55, Depth :1 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing / Proposed
1	PO_CH_KC_GH_09	Garhi 01	2.42		0	Yes, Area:10.74Ha.	37510	22506	Sand	Proposed
2	PO_CH_KC_GH_10	Garhi 02	0.55		0		8525	5115	Sand	Proposed
3	PO_CH_KC_GH_10A	Garhi 03	0.16		0		2480	1488	Sand	Proposed
4	PO_CH_KC_GH_10B	Garhi 04	0.49		0		7595	4557	Sand	Proposed
5	PO_CH_KC_GH_11	Garhi 05	0.58		0		8990	5394	Sand	Proposed
6	PO_CH_KC_GH_12	Garhi 06	0.66		0		10230	6138	Sand	Proposed
7	PO_CH_KC_GH_13	Garhi 07	0.38		0		5890	3534	Sand	Proposed
8	PO_CH_KC_GH_14A	Garhi 08	0.26		0		4030	2418	Sand	Proposed
9	PO_CH_KC_GH_14B	Garhi 09	0.17		0		2635	1581	Sand	Proposed
10	PO_CH_KC_GH_14C	Garhi 10	0.37		0		5735	3441	Sand	Proposed
11	PO_CH_KC_GH_14D	Garhi 11	0.16		0		2480	1488	Sand	Propose

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12	PO_CH_KC_GH_15	Garhi 12	0.51		0		7905	4743	Sand	Proposed
13	PO_CH_KC_GH_15A	Garhi 13	0.31		0		4805	2883	Sand	Proposed
14	PO_CH_KC_GH_16	Garhi 14	0.34		0		5270	3162	Sand	Proposed
15	PO_CH_KC_GH_17	Garhi 15	0.76		0		11780	7068	Sand	Proposed
16	PO_CH_KC_GH_18	Garhi 16	0.61		0		9455	5673	Sand	Proposed
17	PO_CH_KC_GH_19	Garhi 17	0.68		0		10540	6324	Sand	Proposed
18	PO_CH_KC_GH_20A	Garhi 18	0.4		0		6200	3720	Sand	Proposed
19	PO_CH_KC_GH_20B	Garhi 19	0.47		0		7285	4371	Sand	Proposed
20	PO_CH_KC_GH_20C	Garhi 20	0.17		0		2635	1581	Sand	Proposed
21	PO_CH_KC_GH_21A	Garhi 21	0.29		0		4495	2697	Sand	Proposed
22	PO_CH_KC_GH_22	Garhi 22	0.35		0	Yes, Area:4.6Ha.	5425	3255	Sand	Proposed
23	PO_CH_KC_GH_22A	Garhi 23	0.43		Less than 0.05		6665	3999	Sand	Proposed
24	PO_CH_KC_GH_22B	Garhi 24	0.68		Less than 0.05		10540	6324	Sand	Proposed
25	PO_CH_KC_GH_22E	Garhi 25	1.63		0		25265	15159	Sand	Proposed
26	PO_CH_GD_GH_22G	Garhi 26	0.8		0		12400	7440	Sand	Proposed
27	PO_CH_GD_GH_22I	Garhi 27	0.71		0		11005	6603	Sand	Proposed
28	PO_CH_GD_GH_23	Garhi 28	0.82		0	Yes, Area:3.93 Ha.	12710	7626	Sand	Proposed
29	PO_CH_GD_GH_24	Garhi 29	1.18		0		18290	10974	Sand	Proposed
30	PO_CH_GD_GH_26	Garhi 30	0.59		0		9145	5487	Sand	Proposed

31	PO_CH_GD_GH_27	Garhi 31	0.44		0		6820	4092	Sand	Proposed
32	PO_CH_GD_GH_28	Garhi 32	0.9		0.4		13950	8370	Sand	Proposed
33	PO_CH_GD_GH_29	Garhi 33	0.58		0	NO	8990	5394	Sand	Proposed
34	PO_CH_GD_GH_30	Garhi 34	0.77		0	Yes, Area:2.73 Ha.	11935	7161	Sand	Proposed
35	PO_CH_GD_GH_31	Garhi 35	0.57		0		8835	5301	Sand	Proposed
36	PO_CH_GD_GH_32	Garhi 36	0.29		0		4495	2697	Sand	Proposed
37	PO_CH_GD_GH_33	Garhi 37	0.68		0		10540	6324	Sand	Proposed
38	PO_CH_GD_GH_34	Garhi 38	0.42		0		6510	3906	Sand	Proposed
39	PO_CH_GD_GH_36	Garhi 39	0.27		0	NO	4185	2511	Sand	Proposed
40	PO_CH_GD_GH_37	Garhi 40	0.37		0	NO	5735	3441	Sand	Proposed
41	PO_CH_GD_GH_38	Garhi 41	0.31		0	NO	4805	2883	Sand	Proposed
42	PO_CH_KC_GH_39	Garhi 42	0.2		0	Yes, Area:0.44 Ha.	3100	1860	Sand	Proposed
43	PO_CH_KC_GH_40	Garhi 43	0.24		0		3720	2232	Sand	Proposed
44	PO_CH_KC_GH_40A	Garhi 44	0.46		0	NO	7130	4278	Sand	Proposed
45	PO_CH_KC_GH_40C	Garhi 45	0.16		0	NO	2480	1488	Sand	Proposed

Sl.No	POTENTIAL SANDBAR	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 :1 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing/ Proposed

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1	PO_CH_HG _LJ_1A	Lilajan 01 Vill-Uraili Bahera, Block-Hunterganj	24.7		More than 0.25	NO	390260	234156	Sand	Proposed
2	PO_CH_HG _LJ_01	Lilajan 02 Vill-Suggi Pandarokalan, Block-Hunterganj	19.26		More than 0.25	NO	304308	182584.8	Sand	Proposed
3	PO_CH_HG _LJ_02	Lilajan 03 Vill-Garkedali,Block-Hunterganj	9.56		More than 0.25	Yes, Area:14.49 Ha.	151048	90628.8	Sand	Proposed
4	PO_CH_HG _LJ_03	Lilajan 04 Vill-Nawadih, Block-Hunterganj	4.93		More than 0.25		77894	46736.4	Sand	Proposed
5	PO_CH_HG _LJ_04	Lilajan 05 Vill-Kedalikalan, Patwa, Banki, Kobani,Block-Hunterganj	46.54		More than 0.25	NO	735332	441199.2	Sand	Proposed
6	PO_CH_HG _LJ_05	Lilajan 06 Vill-Sahi,Block-Hunterganj	0.37		More than 0.25	Yes, Area:30.76 Ha.	5846	3507.6	Sand	Proposed
7	PO_CH_HG _LJ_06	Lilajan 07 Vill-Sahi, Block-Hunterganj	1.02		More than 0.25		16116	9669.6	Sand	Proposed
8	PO_CH_HG _LJ_07	Lilajan 08 Vill-Sahi, Block-Hunterganj	0.53		More than 0.25		8374	5024.4	Sand	Proposed
9	PO_CH_HG _LJ_08	Lilajan 09 Vill-Sahi, Block-Hunterganj	0.28		More than 0.25		4424	2654.4	Sand	Proposed
10	PO_CH_HG _LJ_10	Lilajan 10 Vill-Sahi, Block-Hunterganj	1.51		More than 0.25		23858	14314.8	Sand	Proposed
11	PO_CH_HG _LJ_11	Lilajan 11 Vill-Murar, Block-Hunterganj	0.86		Less than 0.25		13588	8152.8	Sand	Proposed

12	PO_CH_HG_LJ_13	Lilajan 12 Vill-Sahi, Block-Hunterganj	6.66		More than 0.25		105228	63136.8	Sand	Proposed
13	PO_CH_HG_LJ_14	Lilajan 13 Vill-Sahi, Block-Hunterganj	10.74		More than 0.25		169692	101815.2	Sand	Proposed
14	PO_CH_HG_LJ_15	Lilajan 14 Vill-Sahi, Block-Hunterganj	1.9		More than 0.25		30020	18012	Sand	Proposed
15	PO_CH_HG_LJ_16	Lilajan 15 Vill-Kataiya, Block-Hunterganj	4.07		More than 0.25		64306	38583.6	Sand	Proposed
16	PO_CH_HG_LJ_17	Lilajan 16 Vill-Kataiya, Block-Hunterganj	2.82		More than 0.25		44556	26733.6	Sand	Proposed
17	PO_CH_HG_LJ_12	Lilajan 17 Vill-Tarwagra, Block-Hunterganj	1.43		Less than 0.1	NO	22594	13556.4	Sand	Proposed
18	PO_CH_HG_LJ_17A	Lilajan 18 Vill-Ghanghari, Block-Hunterganj	2.6		0	NO	41080	24648	Sand	Proposed
19	PO_CH_HG_LJ_19	Lilajan 19 Vill-Ghanghari, Block-Hunterganj	8.32		Less than 0.2	Yes, Area:38.48 Ha.	131456	78873.6	Sand	Proposed
20	PO_CH_HG_LJ_20	Lilajan 20 Vill-Lohsinghana Khurd, Block-Hunterganj	3.63		Less than 0.2		57354	34412.4	Sand	Proposed
21	PO_CH_HG_LJ_23	Lilajan 21 Vill-Madanpur, Block-Hunterganj	1.4		Less than 0.1		22120	13272	Sand	Proposed
22	PO_CH_HG_LJ_24	Lilajan 22 Vill-Madanpur, Block-Hunterganj	0.42		Less than 0.1		6636	3981.6	Sand	Proposed
23	PO_CH_HG_LJ_26	Lilajan 23 Vill-Madanpur, Block-Hunterganj	0.35		Less than 0.1		5530	3318	Sand	Proposed
24	PO_CH_HG_LJ_27	Lilajan 24 Vill-Rakshi, Block-Hunterganj	0.45		Less than 0.1		7110	4266	Sand	Proposed

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25	PO_CH_PR_LJ_29	Lilajan 25	0.39		NA		6162	3697.2	Sand	Proposed
26	PO_CH_HG_LJ_30	Lilajan 26 Vill-Lohsinghana Kalan, Block-Hunterganj	3.46		More than 0.25		54668	32800.8	Sand	Proposed
27	PO_CH_HG_LJ_31	Lilajan 27 Vill-Lohsinghana Kalan, Block-Hunterganj	14.22		Less than 0.1		224676	134805.6	Sand	Proposed
28	PO_CH_HG_LJ_32	Lilajan 28 Vill-Kewla Jorikalan, Block-Hunterganj	3.87		Less than 0.1		61146	36687.6	Sand	Proposed
29	PO_CH_HG_LJ_33	Lilajan 29 Vill-Jorikalan, Block-Hunterganj	1.97		0		31126	18675.6	Sand	Proposed
30	PO_CH_HG_LJ_36	Lilajan 30 Vill- Jorikalan, Block-Hunterganj	6.5		Less than 0.2	Yes, Area:42.87 Ha.	102700	61620	Sand	Proposed
31	PO_CH_HG_LJ_37	Lilajan 31 Vill- Jorikhurd Kursel, Block-Hunterganj	33.97		Less than 0.1		536726	322035.6	Sand	Proposed
32	PO_CH_CH_LJ_38	Lilajan 32	2.4		0		37920	22752	Sand	Proposed
33	PO_CH_CH_LJ_40	Lilajan 33	2.5		0	Yes, Area:27.36 Ha.	39500	23700	Sand	Proposed
34	PO_CH_CH_LJ_41	Lilajan 34	1.86		0		29388	17632.8	Sand	Proposed
35	PO_CH_CH_LJ_43	Lilajan 35	18.31		0		289298	173578.8	Sand	Proposed
36	PO_CH_CH_LJ_43A	Lilajan 36	4.69		0		74102	44461.2	Sand	Proposed
37	PO_CH_CH_LJ_44	Lilajan 37	4.69		0	NO	74102	44461.2	Sand	Proposed
38	PO_CH_CH_LJ_47	Lilajan 38	1.76		0 m & within in Lawala	NO	27808	16684.8	Sand	Proposed

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					ung WLS					
39	PO_CH_HG_LJ_52A	Lilajan 39 Vill- Jorikhurd , Block-Hunterganj	1.97		0	NO	31126	18675.6	Sand	Proposed
40	PO_CH_CH_LJ_56	Lilajan 40	7.61		NA	Yes, Area:14.53 Ha.	120238	72142.8	Sand	Proposed
41	PO_CH_CH_LJ_56A	Lilajan 41	1.02		NA		16116	9669.6	Sand	Proposed
42	PO_CH_CH_LJ_57_58	Lilajan 42	1.25		NA		19750	11850	Sand	Proposed
43	PO_CH_CH_LJ_59	Lilajan 43	4.65		NA		73470	44082	Sand	Proposed

Sl.No	POTENTIAL SANDBAR	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:1.56, Depth :1 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing/ Proposed
1	PO_CH_KC_MA_01	Mohna 01	1.24		Within Gautam Budh WL	Yes, Area:11.85 Ha.	19344	11606.4	Sand	Proposed
2	PO_CH_IK_MA_02	Mohna 02 Vill- Itkhori, Block-Itkhori	1.83		Within Gautam Budh WL		28548	17128.8	Sand	Proposed
3	PO_CH_IK_MA_03_04_05	Mohna 03 Vill- Itkhori, Block-Itkhori	4.57		Within Gautam Budh WL		71292	42775.2	Sand	Proposed
4	PO_CH_IK_MA_06	Mohna 04 Vill- Itkhori, Block-Itkhori	2.76		Within Gautam Budh WL		43056	25833.6	Sand	Proposed
5	PO_CH_IK_MA_07	Mohna 05 Vill- Itkhori, Block-	1.45		Within Gautam		22620	13572	Sand	Proposed

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		Itkhori			Budh WL					
6	PO_CH_IK_MA_08	Mohna 06 Vill- Itkhori, Block-Itkhori	1.07		Within Gautam Budh WL	Yes, Area:6.90 Ha.	16692	10015.2	Sand	Proposed
7	PO_CH_IK_MA_09	Mohna 07 Vill- Itkhori, Block-Itkhori	2.84		Within Gautam Budh WL		44304	26582.4	Sand	Proposed
8	PO_CH_IK_MA_10	Mohna 08 Vill- Itkhori, Block-Itkhori	4.06		Distance not mention in South Chatra Forest Division Report	No	63336	38001.6	Sand	Proposed
9	PO_CH_IK_MA_13	Mohna 09 Vill- Katuwa, Block-Itkhori	0.25		0	Yes, Area:2.88 Ha.	3900	2340	Sand	Proposed
10	PO_CH_IK_MA_14_15	Mohna 10 Vill- Prithwipur, Block-Itkhori	2.63		Not in Lawalaung range		41028	24616.8	Sand	Proposed
11	PO_CH_IK_MA_19	Mohna 11 Vill- Prithwipur, Block-Itkhori	0.22		Not in Lawalaung range	Yes, Area:1.12 Ha.	3432	2059.2	Sand	Proposed
12	PO_CH_IK_MA_19A	Mohna 12 Vill- Prithwipur, Block-Itkhori	0.90		Not in Lawalaung range		14040	8424	Sand	Proposed
13	PO_CH_IK_MA_20_21	Mohna 13 Vill- Tonatand, Block-Itkhori	1.15		0	Yes, Area:32.10 Ha.	17940	10764	Sand	Proposed
14	PO_CH_IK_MA_21A	Mohna 14 Vill- Tonatand, Block-Itkhori	0.65		0		10140	6084	Sand	Proposed
15	PO_CH_IK_MA_22	Mohna 15 Vill- Tonatand, Block-Itkhori	6.30		0		98280	58968	Sand	Proposed

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16	PO_CH_IK_MA_22A	Mohna 16 Vill- Tonatand, Block-Itkhori	0.95		0	14820	8892	Sand	Proposed
17	PO_CH_IK_MA_24	Mohna 17 Vill- Tonatand, Block-Itkhori	2.02		0	31512	18907.2	Sand	Proposed
18	PO_CH_IK_MA_24A	Mohna 18 Vill- Tonatand, Block-Itkhori	0.53		0	8268	4960.8	Sand	Proposed
19	PO_CH_IK_MA_24B	Mohna 19 Vill- Nagwan, Block-Itkhori	0.25		0	3900	2340	Sand	Proposed
20	PO_CH_IK_MA_24C	Mohna 20 Vill- Nagwan, Block-Itkhori	1.94		0	30264	18158.4	Sand	Proposed
21	PO_CH_IK_MA_25	Mohna 21 Vill- Nagwan, Block-Itkhori	0.28		0	4368	2620.8	Sand	Proposed
22	PO_CH_IK_MA_26_27	Mohna 22 Vill- Nagwan, Block-Itkhori	1.75		0	27300	16380	Sand	Proposed
23	PO_CH_IK_MA_27A	Mohna 23 Vill- Nagwan, Block-Itkhori	0.54		0	8424	5054.4	Sand	Proposed
24	PO_CH_IK_MA_27B	Mohna 24 Vill- Bhaduli, Block-Itkhori	0.79		Not in Lawalaung range	12324	7394.4	Sand	Proposed
25	PO_CH_IK_MA_28	Mohna 25 Vill- Bhaduli, Block-Itkhori	0.99		Not in Lawalaung range	15444	9266.4	Sand	Proposed
26	PO_CH_IK_MA_29	Mohna 26 Vill- Bhaduli, Block-Itkhori	4.49		Not in Lawalaung range	70044	42026.4	Sand	Proposed
27	PO_CH_IK_MA_30	Mohna 27 Vill- Bhaduli, Block-Itkhori	1.54		Not in Lawalaung range	24024	14414.4	Sand	Proposed
28	PO_CH_GD_MA_31	Mohna 28	1.19		Not in Gidhour Anchal as per	18564	11138.4	Sand	Proposed

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					Gidhour CO Report					
29	PO_CH_GD_MA_32	Mohna 29	0.83		Not in Gidhour Anchal as per Gidhour CO Report		12948	7768.8	Sand	Proposed
30	PO_CH_GD_MA_33	Mohna 30	1.94		Not in Gidhour Anchal as per Gidhour CO Report		30264	18158.4	Sand	Proposed
31	PO_CH_GD_MA_34	Mohna 31	0.42		Not in Gidhour Anchal as per Gidhour CO Report		6552	3931.2	Sand	Proposed
32	PO_CH_GD_MA_35	Mohna 32	0.51		Not in Gidhour Anchal as per Gidhour CO Report		7956	4773.6	Sand	Proposed
33	PO_CH_GD_MA_36	Mohna 33	1.92		0		29952	17971.2	Sand	Proposed
34	PO_CH_GD_MA_37	Mohna 34	0.46		0		7176	4305.6	Sand	Proposed
35	PO_CH_GD_MA_38	Mohna 35	0.66		0		10296	6177.6	Sand	Proposed
37	PO_CH_GD_MA_43	Mohna 36	3.93		0	Yes, Area:5.91 Ha.	61308	36784.8	Sand	Proposed
38	PO_CH_GD_MA_4	Mohna 37	1.98		0		30888	18532.8	Sand	Proposed

	4									
39	PO_CH_PG_MA_46	Mohna 38 Vill- Khaira, Block-Pathalgarha	1.64		Khata No and Khesra no is not matched with CO Report	Yes, Area:3.25 Ha.	25584	15350.4	Sand	Proposed
40	PO_CH_PG_MA_47	Mohna 39 Vill- Khaira, Block-Pathalgarha	0.85		Khata No and Khesra no is not matched with CO Report		13260	7956	Sand	Proposed
41	PO_CH_PG_MA_48	Mohna 40 Vill- Khaira, Block-Pathalgarha	0.76		Khata No and Khesra no is not matched with CO Report		11856	7113.6	Sand	Proposed
42	PO_CH_PG_MA_50	Mohna 41 Vill- Nongaon, Block-Pathalgarha	1.45		Thana no is not matched with CO report	Yes, Area:6.11 Ha.	22620	13572	Sand	Proposed
43	PO_CH_PG_MA_51	Mohna 42 Vill- Nongaon, Block-Pathalgarha	4.22		Thana no is not matched with CO report		65832	39499.2	Sand	Proposed
44	PO_CH_PG_MA_53	Mohna 43 Vill- Singhani, Block-Pathalgarha	0.44		0		6864	4118.4	Sand	Proposed
45	PO_CH_PG_MA_54	Mohna 44 Vill- Singhani, Block-Pathalgarha	0.43		0	NO	6708	4024.8	Sand	Proposed

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46	PO_CH_PG_MA_55	Mohna 45 Vill- Tetariya, Block-Pathalgarha	2.47		0	NO	38532	23119.2	Sand	Proposed
47	PO_CH_PG_MA_56	Mohna 46 Vill- Dumbi, Block-Pathalgarha	0.36		0	Yes, Area:0.67 Ha.	5616	3369.6	Sand	Proposed
48	PO_CH_PG_MA_57	Mohna 47 Vill- Dumbi, Block-Pathalgarha	0.31		0		4836	2901.6	Sand	Proposed
49	PO_CH_PG_MA_58	Mohna 48 Vill- Belhar, Block-Pathalgarha	0.18		Khata no is not matched with CO Report, Pathalgarha	Yes, Area:0.65 Ha.	2808	1684.8	Sand	Proposed
50	PO_CH_PG_MA_59	Mohna 49 Vill- Belhar, Block-Pathalgarha	0.47		Khata no is not matched with CO Report, Pathalgarha		7332	4399.2	Sand	Proposed
51	PO_CH_PG_MA_60	Mohna 50 Vill- Barwadih, Block-Pathalgarha	0.47		0	Yes, Area:3.67 Ha.	7332	4399.2	Sand	Proposed
52	PO_CH_PG_MA_61	Mohna 51 Vill- Barwadih, Block-Pathalgarha	0.31		0		4836	2901.6	Sand	Proposed
53	PO_CH_PG_MA_61A	Mohna 52 Vill- Singhani, Block-Pathalgarha	0.26		0		4056	2433.6	Sand	Proposed
54	PO_CH_SR_MA_61B	Mohna 53	1.14		0		17784	10670.4	Sand	Proposed
55	PO_CH_SR_MA_62	Mohna 54	0.39		0		6084	3650.4	Sand	Proposed
56	PO_CH_SR_MA_63	Mohna 55	1.10		This Plot no. is not in rive		17160	10296	Sand	Proposed

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57	PO_CH_PG_MA_64	Mohna 56 Vill- Tetariya, Block-Pathalgarha	1.16		0	NO	18096	10857.6	Sand	Proposed
58	PO_CH_PG_MA_65	Mohna 57 Vill- Khaira, Block-Pathalgarha	0.62		0	Yes, Area:2.06 Ha.	9672	5803.2	Sand	Proposed
59	PO_CH_PG_MA_66	Mohna 58 Vill- Khaira, Block-Pathalgarha	0.31		0		4836	2901.6	Sand	Proposed
60	PO_CH_PG_MA_67	Mohna 59 Vill- Khaira, Block-Pathalgarha	0.68		0		10608	6364.8	Sand	Proposed
61	PO_CH_PG_MA_68	Mohna 60 Vill- Khaira, Block-Pathalgarha	0.45		0		7020	4212	Sand	Proposed
62	PO_CH_PG_MA_69	Mohna 61 Vill- Shail, Block-Pathalgarha	2.35		0	Yes, Area:4.50 Ha.	36660	21996	Sand	Proposed
63	PO_CH_PG_MA_70	Mohna 62 Vill- Shail, Block-Pathalgarha	0.45		0		7020	4212	Sand	Proposed
64	PO_CH_PG_MA_73	Mohna 63 Vill- Shail, Block-Pathalgarha	0.40		0		6240	3744	Sand	Proposed
65	PO_CH_PG_MA_74	Mohna 64 Vill- Shail, Block-Pathalgarha	0.79		0		12324	7394.4	Sand	Proposed
66	PO_CH_PG_MA_76	Mohna 65 Vill- Meramgara, Block-Pathalgarha	0.51		0		7956	4773.6	Sand	Proposed
67	PO_CH_PG_MA_79	Mohna 66 Vill- Meramgara, Block-Pathalgarha	0.57		0	NO	8892	5335.2	Sand	Proposed

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Sl.No	POTENTIAL SANDBAR	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)	Geological in Tonnes (Bulk Density:1.55)	60 % of Geological Total excavation in Tonnes /Annum	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing/ Proposed
1	PO_CH_PR_MH_01_02	Morhar 01 Vill- Kasibar, Block- Pratappur	7.52		Less than 0.05	Yes, Area: 10.43 Ha.	116560	69936	Sand	Proposed
2	PO_CH_PR_MH_03	Morhar 02 Vill- Kasibar, Block- Pratappur	2.91		.Less than 0.1		45105	27063	Sand	Proposed
3	PO_CH_PR_MH_05	Morhar 03 Vill- Kasibar, Block- Pratappur	4.03		Less than 0.01	NO	62465	37479	Sand	Proposed
4	PO_CH_PR_MH_06	Morhar 04	0.76			NO	11780	7068	Sand	Proposed
5	PO_CH_PR_MH_07	Morhar 05 Vill- Bharhi, Block- Pratappur	0.46		More than 0.25	Yes, Area: 0.99 Ha.	7130	4278	Sand	Proposed
6	PO_CH_PR_MH_08	Morhar 06 Vill- Bharhi, Block- Pratappur	0.53		More than 0.25		8215	4929	Sand	Proposed
7	PO_CH_PR_MH_11	Morhar 07 Vill- Bhusiya, Block- Pratappur	0.53		Less than 0.02	Yes, Area: 2.33Ha.	8215	4929	Sand	Proposed
8	PO_CH_PR_MH_12	Morhar 08 Vill- Bhusiya, Block- Pratappur	0.12		0		1860	1116	Sand	Proposed
9	PO_CH_PR_MH_13	Morhar 09 Vill- Bhusiya, Block- Pratappur	0.26		0		4030	2418	Sand	Proposed
10	PO_CH_PR_MH_14	Morhar 10 Vill- Bhusiya, Block- Pratappur	0.36		0		5580	3348	Sand	Proposed
11	PO_CH_PR_MH_15	Morhar 11	0.30		0		4650	2790	Sand	Proposed

12	PO_CH_PR_MH_15A	Morhar 12 Vill- Bhusiya, Block- Pratappur	0.25		0		3875	2325	Sand	Proposed
13	PO_CH_PR_MH_16	Morhar 13 Vill- Bhusiya, Block- Pratappur	0.51		0		7905	4743	Sand	Proposed
14	PO_CH_PR_MH_18A	Morhar 14 Vill- Humajang, Block- Pratappur	0.38		0	Yes, Area: 1.11Ha.	5890	3534	Sand	Proposed
15	PO_CH_PR_MH_19_20	Morhar 15 Vill- Humajang, Block- Pratappur	0.73		0		11315	6789	Sand	Proposed
16	PO_CH_PR_MH_25	Morhar 16 Vill- Lipta, Block- Pratappur	0.57		Less than 0.05	Yes, Area: 2.05Ha.	8835	5301	Sand	Proposed
17	PO_CH_PR_MH_26_27	Morhar 17 Vill- Lipta, Block- Pratappur	0.30		0		4650	2790	Sand	Proposed
18	PO_CH_PR_MH_29	Morhar 18 Vill- Lipta, Block- Pratappur	0.22		0		3410	2046	Sand	Proposed
19	PO_CH_PR_MH_33	Morhar 19 Vill- Bansi, Block- Pratappur	0.96		0		14880	8928	Sand	Proposed
20	PO_CH_PR_MH_34	Morhar 20 Vill- Nanaikala, Block- Pratappur	0.19		0	NO	2945	1767	Sand	Proposed
21	PO_CH_PR_MH_36	Morhar 21 Vill- Nanaikala, Block- Pratappur	0.19		0	NO	2945	1767	Sand	Proposed
22	PO_CH_PR_MH_41	Morhar 22 Vill- Ghorighat, Block- Pratappur	1.47		0	Yes, Area: 2.68Ha.	22785	13671	Sand	Proposed
23	PO_CH_PR_MH_43	Morhar 23 Vill- Ghorighat, Block- Pratappur	1.21		0		18755	11253	Sand	Proposed
24	PO_CH_PR_MH_45	Morhar 24 Vill- Bajrahi, Block- Pratappur	15.74		0	NO	243970	146382	Sand	Proposed

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25	PO_CH_PR_MH_49	Morhar 25 Vill- Rajpur, Block- Pratappur	10.93		0	NO	169415	101649	Sand	Proposed
26	PO_CH_PR_MH_51	Morhar 26 Vill- Kaura, Block- Pratappur	7.75		0	Yes, Area: 8.87Ha.	120125	72075	Sand	Proposed
27	PO_CH_PR_MH_51A	Morhar 27 Vill- Kaura, Block- Pratappur	1.12		0		17360	10416	Sand	Proposed
28	PO_CH_PR_MH_54	Morhar 28 Vill- Charkakhurd, Block- Pratappur	4.60		Less than 0.2	NO	71300	42780	Sand	Proposed
29	PO_CH_PR_MH_60	Morhar 29 Vill- Fagua, Block- Pratappur	0.48		0	Yes, Area: 1.73Ha.	7440	4464	Sand	Proposed
30	PO_CH_PR_MH_62	Morhar 30 Vill- Fagua, Block- Pratappur	1.25		0		19375	11625	Sand	Proposed
31	PO_CH_PR_MH_64	Morhar 31 Vill- Lipta, Block- Pratappur	2.46		Less than 0.05	Yes, Area: 6.63Ha.	38130	22878	Sand	Proposed
32	PO_CH_PR_MH_65	Morhar 32 Vill- Jirabar, Block- Pratappur	2.02		Less than 0.1		31310	18786	Sand	Proposed
33	PO_CH_PR_MH_66	Morhar 33 Vill- Jirabar, Block- Pratappur	2.15		0		33325	19995	Sand	Proposed
34	PO_CH_PR_MH_67	Morhar 34 Vill- Senduriya, Block- Pratappur	0.74		0	Yes, Area: 9.92Ha.	11470	6882	Sand	Proposed
35	PO_CH_PR_MH_69	Morhar 35 Vill- Senduriya, Block- Pratappur	1.36		Less than 0.02		21080	12648	Sand	Proposed
36	PO_CH_PR_MH_70	Morhar 36 Vill- Hesatu, Block- Pratappur	1.94		0		30070	18042	Sand	Proposed
37	PO_CH_PR_MH_71	Morhar 37 Vill- Hesatu, Block- Pratappur	1.14		0		17670	10602	Sand	Proposed

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38	PO_CH_PR_MH_72	Morhar 38 Vill- Hesatu, Block-Pratappur	0.62		0		9610	5766	Sand	Proposed
39	PO_CH_KD_MH_73	Morhar 39	4.12		0		63860	38316	Sand	Proposed
40	PO_CH_KD_MH_74A	Morhar 40	0.09		0	NO	1395	837	Sand	Proposed
41	PO_CH_KD_MH_74B	Morhar 41	0.24		0	Yes, Area: 0.38Ha.	3720	2232	Sand	Proposed
42	PO_CH_KD_MH_74C	Morhar 42	0.14		0		2170	1302	Sand	Proposed
43	PO_CH_KD_MH_74D	Morhar 43	0.17		0	Yes, Area: 0.34Ha.	2635	1581	Sand	Proposed
44	PO_CH_KD_MH_74E	Morhar 44	0.17		0		2635	1581	Sand	Proposed

Sl.No	POTENTIAL SANDBAR	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:1.62, Depth :1 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing/ Proposed
1	PO_CH_TD_BI_A	Baki 01 Vill- Tesar Chepa, Block-Tandwa	0.22		-	Yes, Area:2.04 Ha.	3564	2138.4	Sand	Proposed
2	PO_CH_TD_BI_B	Baki 02 Vill- Tesar Chepa, Block-Tandwa	0.37		-		5994	3596.4	Sand	Proposed
3	PO_CH_TD_BI_C	Baki 03 Vill- Baid Bigha, Block-Tandwa	0.59		-		9558	5734.8	Sand	Proposed
4	PO_CH_TD_BI_D	Baki 04 Vill- Baid Bigha, Block-Tandwa	0.16		-		2592	1555.2	Sand	Proposed

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5	PO_CH_TD_BI_01	Baki 05 Vill- Baid Bigha, Block- Tandwa	0.39		-		6318	3790.8	Sand	Proposed
6	PO_CH_TD_BI_02	Baki 06 Vill- Phulwariya, Block- Tandwa	0.14		-		2268	1360.8	Sand	Proposed
7	PO_CH_TD_BI_03	Baki 07 Vill- Phulwariya, Block- Tandwa	0.17		-		2754	1652.4	Sand	Proposed
8	PO_CH_TD_BI_04	Baki 08 Vill- Tektha, Block- Tandwa	0.4		-	Yes, Area:1.62 Ha.	6480	3888	Sand	Proposed
9	PO_CH_TD_BI_05	Baki 09 Vill- Misrol, Block- Tandwa	0.11		-		1782	1069.2	Sand	Proposed
10	PO_CH_TD_BI_07	Baki 10 Vill- Kabra, Block- Tandwa	0.1		-		1620	972	Sand	Proposed
11	PO_CH_TD_BI_09	Baki 11 Vill- Teliyadih, Block- Tandwa	0.2		-		3240	1944	Sand	Proposed
12	PO_CH_TD_BI_10	Baki 12 Vill- Khadhaiya, Block- Tandwa	0.31		-		5022	3013.2	Sand	Proposed
13	PO_CH_TD_BI_11	Baki 13 Vill- Khadhaiya, Block- Tandwa	0.15		-		2430	1458	Sand	Proposed
14	PO_CH_TD_BI_12	Baki 14 Vill- Khadhaiya, Block- Tandwa	0.35		-		5670	3402	Sand	Proposed
15	PO_CH_TD_BI_16	Baki 15 Vill- Brinda, Block- Tandwa	0.2		-	Yes, Area:1.78 Ha.	3240	1944	Sand	Proposed

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16	PO_CH_TD_BI_17	Baki 16 Vill- Sisai, Block- Tandwa	0.61		-		9882	5929.2	Sand	Proposed
17	PO_CH_TD_BI_18	Baki 17 Vill- Sisai, Block- Tandwa	0.34		-		5508	3304.8	Sand	Proposed
18	PO_CH_TD_BI_19	Baki 18 Vill- Sisai, Block- Tandwa	0.63		-		10206	6123.6	Sand	Proposed
19	PO_CH_TD_BI_24	Baki 19 Vill- Katahi Misrol, Block- Tandwa	2.71		-	Yes, Area:5.34 Ha.	43902	26341.2	Sand	Proposed
20	PO_CH_TD_BI_25	Baki 20 Vill- Katahi Misrol, Block- Tandwa	2.11		-		34182	20509.2	Sand	Proposed
21	PO_CH_TD_BI_26	Baki 21 Vill- Katahi Misrol, Block- Tandwa	0.52		-		8424	5054.4	Sand	Proposed
22	PO_CH_TD_BI_27	Baki 22 Vill- Garilaung, Block- Tandwa	0.57		-	Yes, Area:1.58 Ha.	9234	5540.4	Sand	Proposed
23	PO_CH_TD_BI_28	Baki 23 Vill- Garilaung, Block- Tandwa	0.62		-		10044	6026.4	Sand	Proposed
24	PO_CH_TD_BI_29	Baki 24 Vill- Garilaung, Block- Tandwa	0.39		-		6318	3790.8	Sand	Proposed
25	PO_CH_TD_BI_32	Baki 25 Vill- Raham, Block- Tandwa	0.15		-	Yes, Area:0.99 Ha.	2430	1458	Sand	Proposed
26	PO_CH_TD_BI_33	Baki 26 Vill- Raham, Block- Tandwa	0.34		-		5508	3304.8	Sand	Proposed
27	PO_CH_TD_BI_34	Baki 27 Vill- Raham, Block- Tandwa	0.28		-		4536	2721.6	Sand	Proposed

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28	PO_CH_TD_BI_35	Baki 28 Vill- Raham, Block- Tandwa	0.22		-		3564	2138.4	Sand	Proposed
29	PO_CH_TD_BI_38	Baki 29 Vill- Raham, Block- Tandwa	0.11		-	Yes, Area:1.29 Ha.	1782	1069.2	Sand	Proposed
30	PO_CH_TD_BI_40	Baki 30 Vill- Raham, Block- Tandwa	0.47		-		7614	4568.4	Sand	Proposed
31	PO_CH_TD_BI_41	Baki 31 Vill- Raham, Block- Tandwa	0.28		0 m		4536	2721.6	Sand	Proposed
32	PO_CH_TD_BI_42	Baki 32 Vill- Raham, Block- Tandwa	0.43		0 m		6966	4179.6	Sand	Proposed
33	PO_CH_TD_BI_45	Baki 33 Vill- Laranga, Block- Tandwa	0.38		0 m	Yes, Area:21.83 Ha.	6156	3693.6	Sand	Proposed
34	PO_CH_TD_BI_46	Baki 34 Vill- Laranga, Block- Tandwa	0.49				7938	4762.8	Sand	Proposed
35	PO_CH_TD_BI_47	Baki 35 Vill- Raham, Block- Tandwa	0.53		0 m		8586	5151.6	Sand	Proposed
36	PO_CH_TD_BI_49	Baki 36 Vill- Dundua, Block- Tandwa	0.9		0 m		14580	8748	Sand	Proposed
37	PO_CH_TD_BI_50	Baki 37 Vill- Laranga, Block- Tandwa	2.13		0 m		34506	20703.6	Sand	Proposed
38	PO_CH_TD_BI_51	Baki 38 Vill- Laranga, Block- Tandwa	4.02		0 m		65124	39074.4	Sand	Proposed
39	PO_CH_TD_BI_52	Baki 39 Vill- Laranga, Block- Tandwa	13.38		0 m		216756	130053.6	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-Siltation Location: (Lakes/Ponds/Dams etc.) (Existing &proposed)

Name ofReservoir /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
Damodar	1	Damodar 01, 02 & 03	Riverbed	Ulatu	2.42	37752	22,651.2
	2	Damodar 04-13	Riverbed	Ulatu	8.12	126672	76,003.2
	3	Damodar 14-17	Riverbed	Korilara	6.54	102024	61,214.4
	4	Damodar 18-25	Riverbed	Korilara, Dembua, Henjda & Kutki	36.08	562848	3,37,708.8
Garhi	5	Garhi 01- 21	Riverbed	-	10.74	166470	99,882
	6	Garhi 22-27	Riverbed	-	4.6	71300	42,780
	7	Garhi 28-32	Riverbed	-	3.93	60915	36,549
	8	Garhi 34-38	Riverbed	-	2.73	42315	25,389
	9	Garhi 42-43	Riverbed	-	0.44	6820	4,092
Lilajan	10	Lilajan 03, 04	Riverbed	Garkedali, Nawadih	14.49	228942	1,37,365.2
	11	Lilajan 06-16	Riverbed	Sahi, Murar, Kataiya	30.76	486008	291604.8
	12	Lilajan 19-29	Riverbed	Ghanghari, Lohsinghana Khurd, Madanpur, Rakshi, Lohsinghana Kalan, Kewla Jorikalan, Jorikalan	38.48	608984	3,65,390.4
	13	Lilajan 30-32	Riverbed	Jorikalan, Jorikhurd Kursel	42.87	677346	4,06,407.6
	14	Lilajan 33-36	Riverbed		27.36	432288	2,59,372.8
	15	Lilajan 40-43	Riverbed		14.53	229574	1,37,744.4
	16	Mohna 01-05	Riverbed	Itkhori	11.85	184860	110916

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Mohna	17	Mohna 06-07	Riverbed	Itkhori	6.90	60996	36597.6
	18	Mohna 09-10	Riverbed	Katuwa, Prithwipur	2.88	44928	26956.8
	19	Mohna 11-12	Riverbed	Prithwipur	1.12	17472	10483.2
	20	Mohna 13-35	Riverbed	Tonatand, Nagwan, Bhaduli	32.10	500760	300456
	21	Mohna 36-37	Riverbed	-	5.91	92196	55317.6
	22	Mohna 38-40	Riverbed	-	3.25	50700	30420
	23	Mohna 41-43	Riverbed	-	6.11	95316	57189.6
	24	Mohna 46-47	Riverbed	-	0.67	10452	6271.2
	25	Mohna 48-49	Riverbed	-	0.65	10140	6084
	26	Mohna 50-55	Riverbed	Barwadih, Singhani	3.67	57252	34351.2
	27	Mohna 57-60	Riverbed	-	2.06	32136	19281.6
	28	Mohna 61-65	Riverbed	Shail, Meramgara	4.50	70200	42120
Morhar	29	Morhar 01-02	Riverbed	Kasibar	10.43	161665	96999
	30	Morhar 05-06	Riverbed	Bharhi	0.99	15345	9207
	31	Morhar 07-13	Riverbed	Bhusiya	2.33	36115	21669
	32	Morhar 14-15	Riverbed	Humajang	1.11	17205	10323
	33	Morhar 16-19	Riverbed	Lipta, Bansi	2.05	31775	19065
	34	Morhar 22-23	Riverbed	Ghorighat	2.68	41540	24924
	35	Morhar 26-27	Riverbed	Kaura	8.87	137485	82491
	36	Morhar 29-30	Riverbed	Fagua	1.73	26815	16089
	37	Morhar 31-33	Riverbed	Lipta, Jirabar	6.63	102765	61659
	38	Morhar 34-39	Riverbed	Senduriya, Hesatu	9.92	153760	92256
	39	Morhar 41-42	Riverbed	-	0.38	5890	3534
	40	Morhar 43-44	Riverbed	-	0.34	5270	3162
Baki	41	Baki 01-07	Riverbed	Tesar Chepa, Baid Bigha, Phulwariya	2.04	33048	19828.8
	42	Baki 08-14	Riverbed	Tektha, Misrol,, Kabra, Teliyadih, Khadhaiya	1.62	26244	15746.4
	43	Baki 15-18	Riverbed	Brinda, Sisai	1.78	28836	17301.6

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	44	Baki 19-21	Riverbed	Katahi Misrol	5.34	86508	51904.8
	45	Baki 22-24	Riverbed	Garilaung	1.58	25596	15357.6
	46	Baki 25-28	Riverbed	Raham	0.99	16038	9622.8
	47	Baki 29-32	Riverbed	Raham	1.29	20898	12538.8
	48	Baki 33-39	Riverbed	Laranga, Raham, Dundua	21.83	353646	212187.6

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)
Damodar	NA	NA	NA	NA	NA	NA	NA	NA
Garhi	NA	NA	NA	NA	NA	NA	NA	NA
Lilajan	NA	NA	NA	NA	NA	NA	NA	NA
Mohna	NA	NA	NA	NA	NA	NA	NA	NA
Morhar	NA	NA	NA	NA	NA	NA	NA	NA
Baki	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 tippers /day of lease	Number of tippers /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
Damodar 01 Vill- Ulatu, Block- Tandwa	Road going towords Siram	6	NA	1.33	Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 02 Vill- Ulatu, Block- Tandwa	Road going towords Siram	2	NA	1.40	Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 03 Vill- Ulatu, Block- Tandwa	Road going towords Siram	2	NA	1.40	Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 04 Vill- Ulatu, Block- Tandwa	Road going towords Siram	1	NA	-	Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 05 Vill- Ulatu, Block- Tandwa	Road going towords Siram	3	NA	1.36	Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 06 Vill- Ulatu, Block- Tandwa	Road going towords Siram	1	NA	1.46	Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 07 Vill- Ulatu, Block- Tandwa	Road going towords Siram	1	NA	0.79	Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 08 Vill- Ulatu, Block- Tandwa	Road going towords Siram	9	NA	0.58	Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 09 Vill- Ulatu, Block- Tandwa	Road going towords Siram	2	NA	0.73	Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 10 Vill- Ulatu, Block- Tandwa	Road going towords Siram	5	NA	0.37	Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 11 Vill- Ulatu, Block- Tandwa	Road going towords Siram	2	NA	0.56	Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 12 Vill- Ulatu, Block- Tandwa	Road going towords Siram	4	NA	0.59	Unpaved	Unpaved	Lease Owner	Route Map attached

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Damodar 13 Vill- Ulatu, Block- Tandwa	Road going towords Siram	2	NA	0.59	Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 14 Vill- Korilara, Block- Tandwa	Road going towords Saraiya	3	NA	0.93	Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 15 Vill- Korilara, Block- Tandwa	Road going towords Saraiya	11	NA	0.67	Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 16 Vill- Korilara, Block- Tandwa	Road going towords Saraiya	7	NA	0.90	Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 17 Vill- Korilara, Block- Tandwa	Road going towords Saraiya	5	NA	-	Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 18 Vill- Korilara, Block- Tandwa	Road going towords Korilari	15	NA	0.43	Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 19 Vill- Dembua, Block- Tandwa	Road going towords Nawadih	44	NA	0.90	Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 20 Vill- Dembua, Block- Tandwa	Road going towords Kutki	13	NA	0.93	Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 21 Vill- Henjda, Block- Tandwa	Road going towords Kutki	17	NA	0.30	Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 22 Vill- Henjda, Block- Tandwa	Road going towords Benti	14	NA	0.23	Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 23 Vill- Kutki, Block- Tandwa	Road going towords Benti	13	NA	0.11	Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 24 Vill- Kutki, Block- Tandwa	Road going towords Nawadih	12	NA	0.06	Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 25 Vill- Kutki, Block- Tandwa	Road going towords Mohan Nagar	12	NA	0.34	Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 26 Vill- Kutki, Block- Tandwa	Road going towords Kutki	3	NA	0.26	Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 27 Vill- Benti, Block- Tandwa	Road going towords SH-07	2	NA	0.82	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi River								
Garhi 01	Road going towords Doka	9	NA	0.10	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 02	Road going towords Doka	2	NA	1.06	Unpaved	Unpaved	Lease Owner	Route Map attached

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Garhi 03	Road going towords Doka	1	NA	0.96	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 04	Road going towords Doka	2	NA	0.86	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 05	Road going towords Doka	2	NA	0.84	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 06	Road going towords Ghurkunda	3	NA	0.77	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 07		1	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 08		1	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 09		1	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 10	Road going towords Daridaga	1	NA	0.12	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 11	Road going towords Bhurkunda	1	NA	0.38	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 12	Road going towords Bhurkunda	2	NA	0.34	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 13	Road going towords Bhurkunda	1	NA	0.54	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 14	Road going towords Bhurkunda	1	NA	0.18	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 15	Road going towords Madgara	3	NA	0.38	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 16	Road going towords Madgara	2	NA	0.6	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 17	Road going towords Madgara	3	NA	0.54	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 18	Road going towords Madgara	2	NA	0.30	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 19	Road going towords Madgara	2	NA	0.42	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 20	Road going towords	1	NA	0.45	Unpaved	Unpaved	Lease Owner	Route Map

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	Madgara							attached
Garhi 21	Road going towords Madgara	1	NA	0.54	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 22	Road going towords Pitij	1	NA	0.28	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 23	Road going towords Pitij	2	NA	0.18	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 24	Road going towords Pitij	3	NA	0.10	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 25	Road going towords Pitij	6	NA	0.10	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 26	Road going towords Pitij	3	NA	0.12	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 27	Road going towords Kanha khurd	3	NA	0.46	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 28	Road going towords Pitij	3	NA	0.29	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 29	Road going towords Pitij	5	NA	0.04	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 30	Road going towords Pitij	2	NA	0.05	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 31	Road going towords Majhgaon	2	NA	0.04	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 32	Road going towords Majhgaon	3	NA	0.11	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 33	Road going towords Chouparan – Chatra Rd	2	NA	0.08	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 34	Road going towords Majhgaon	3	NA	0.03	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 35	Road going towords Majhgaon	2	NA	0.40	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 36	Road going towords Majhgaon	1	NA	0.20	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 37	Road going towords	3	NA	0.04	Unpaved	Unpaved	Lease Owner	Route Map

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	Sindouri Kalan							attached
Garhi 38	Road going towords Sindouri Kalan	2	NA	0.11	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 39	Road going towords Katka Msandi- Kullu Rd.	1	NA	0.37	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 40	Road going towords Salgar	1	NA	0.24	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 41	Road going towords Katka Msandi- Kullu Rd.	1	NA	0.52	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 42	Road going towords Madgara	1	NA	0.48	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 43	Road going towords Madgara	1	NA	0.44	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 44	Road going towords Harhad	2	NA	0.40	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 45	Road going towords Pakri	1	NA	0.05	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan River								
Lilajan 01 Vill-Uraili Bahera, Block-Hunterganj	Road going towords lansar	98	NA	0.860	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 02 Vill-Suggi Pandarokalan, Block-Hunterganj	Road going towords sugasot	76	NA	0.160	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 03 Vill-Garkedali,Block-Hunterganj	Road going towords lahsar	38	NA	0.080	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 04 Vill-Nawadih, Block-Hunterganj	Road going towords lansar	19	NA	0.170	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 05 Vill-Kedalikalan, Patwa, Banki, Kobani,Block-Hunterganj	Road going towords chakalpur	184	NA	0.570	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 06 Vill-Sahi,Block-Hunterganj	Road going towords bala	1	NA	0.370	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 07 Vill-Sahi, Block-Hunterganj	Road going towords raharbar	4	NA	0.150	Unpaved	Unpaved	Lease Owner	Route Map attached

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Lilajan 08 Vill-Sahi, Block-Hunterganj	Road going towords raharbar	2	NA	0.170	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 09 Vill-Sahi, Block-Hunterganj	Road going towords raharbar	1	NA	0.460	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 10 Vill-Sahi, Block-Hunterganj	Road going towords raharbar	6	NA	0.190	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 11 Vill-Murar, Block-Hunterganj	Road going towords raharbar	3	NA	0.170	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 12 Vill-Sahi, Block-Hunterganj	Road going towords ketaribar	26	NA	0.610	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 13 Vill-Sahi, Block-Hunterganj	Road going towords dumri	42	NA	1.80	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 14 Vill-Sahi, Block-Hunterganj	Road going towords dumri	8	NA	0.31	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 15 Vill-Kataiya, Block-Hunterganj	Road going towords dumri	16	NA	1.28	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 16 Vill-Kataiya, Block-Hunterganj	Road going towords dumri	11	NA	0.71	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 17 Vill-Tarwagra, Block-Hunterganj	Road going towords ketaribagh	6	NA	0.120	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 18 Vill-Ghanghari, Block-Hunterganj	Road going towords ghanghari	10	NA	0.160	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 19 Vill-Ghanghari, Block-Hunterganj	Road going towords bonra	33	NA	0.170	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 20 Vill-Lohsinghana Khurd, Block-Hunterganj	Road going towords bonra	14	NA	0.970	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 21 Vill-Madanpur, Block-Hunterganj	Road going towords raksi	6	NA	0.420	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 22 Vill-Madanpur, Block-Hunterganj	Road going towords raksi	2	NA	1.50	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 23 Vill-Madanpur, Block-Hunterganj	Road going towords raksi	1	NA	0.560	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 24 Vill-Rakshi, Block-Hunterganj	Road going towords raksi	2	NA	0.450	Unpaved	Unpaved	Lease Owner	Route Map attached

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Lilajan 25	Road going towords raksi	2	NA	1.180	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 26 Vill-Lohsinghana Kalan, Block-Hunterganj	Road going towords bonra	14	NA	0.340	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 27 Vill-Lohsinghana Kalan, Block-Hunterganj	Road going towords jorikalan	56	NA	0.650	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 28 Vill-Kewla Jorikalan, Block-Hunterganj	Road going towords jorikalan	15	NA	1.080	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 29 Vill-Jorikalan, Block-Hunterganj	Road going towords jorikalan	8	NA	0.500	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 30 Vill- Jorikalan, Block-Hunterganj	Road going towords pakha	26	NA	1.50	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 31 Vill- Jorikhurd Kursel, Block-Hunterganj	Road going towords pakha	134	NA	0.220	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 32	Road going towords pakha	9	NA	1.66	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 33	Road going towords Bhaudhariya	10	NA	0.410	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 34	Road going towords Bhaudhariya	7	NA	1.550	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 35	Road going towords Bhaudhariya	72	NA	0.720	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 36	Road going towords Bhaudhariya	19	NA	0.790	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 37	Road going towords Bhaudhariya	19	NA	0.760	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 38	Road going towords Korhans	7	NA	0.300	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 39 Vill- Jorikhurd , Block-Hunterganj	Road going towords Raharbar	8	NA	0.100	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 40	Road going towords Jorakhurd	30	NA	0.820	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 41	Road going towords	4	NA	0.910	Unpaved	Unpaved	Lease Owner	Route Map

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	Jorakhurd							attached
Lilajan 42	Road going towords Jorakhurd	5	NA	0.620	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 43	Road going towords Jorakhurd	18	NA	0.590	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna River								
Mohna 01	Road going towords Tulbul	5	NA	0.41	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 02 Vill- Itkhori, Block-Itkhori	Road going towords Tulbul	7	NA	1.47	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 03 Vill- Itkhori, Block-Itkhori	Road going towords Tulbul	18	NA	1.59	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 04 Vill- Itkhori, Block-Itkhori	Road going towords Tulbul	11	NA	1.66	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 05 Vill- Itkhori, Block-Itkhori	Road going towords Tulbul	6	NA	1.38	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 06 Vill- Itkhori, Block-Itkhori	Road going towords Jaber	4	NA	0.64	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 07 Vill- Itkhori, Block-Itkhori	Road going towords Jaber	11	NA	0.71	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 08 Vill- Itkhori, Block-Itkhori	Road going towords Chauparan chatra	16	NA	0.08	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 09 Vill- Katuwa, Block-Itkhori	Road going towords Goriya tanar	1	NA	0.09	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 10 Vill- Prithwipur, Block-Itkhori	Road going towords Goriya tanar	10	NA	0.14	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 11 Vill- Prithwipur, Block-Itkhori	Road going towords Katkamasandi-Bhadrakali	1	NA	0.07	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 12 Vill- Prithwipur, Block-Itkhori	Road going towords Katkamasandi-Bhadrakali	4	NA	0.13	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 13 Vill- Tonatand, Block-Itkhori	Road going towords Katkamasandi-Bhadrakali	4	NA	0.11	Unpaved	Unpaved	Lease Owner	Route Map attached

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Mohna 14 Vill- Tonatand, Block-Itkhori	Road going towords Katkamasandi-Bhadrakali	3	NA	0.11	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 15 Vill- Tonatand, Block-Itkhori	Road going towords Katkamasandi-Bhadrakali	25	NA	0.15	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 16 Vill- Tonatand, Block-Itkhori	Road going towords Katkamasandi-Bhadrakali	4	NA	0.10	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 17 Vill- Tonatand, Block-Itkhori	Road going towords Katkamasandi-Bhadrakali	8	NA	0.13	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 18 Vill- Tonatand, Block-Itkhori	Road going towords Katkamasandi-Bhadrakali	2	NA	0.70	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 19 Vill- Nagwan, Block-Itkhori	Road going towords Katkamasandi-Bhadrakali	1	NA	0.73	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 20 Vill- Nagwan, Block-Itkhori	Road going towords Katkamasandi-Bhadrakali	8	NA	0.52	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 21 Vill- Nagwan, Block-Itkhori	Road going towords Katkamasandi-Bhadrakali	1	NA	0.39	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 22 Vill- Nagwan, Block-Itkhori	Road going towords Katkamasandi-Bhadrakali	7	NA	0.03	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 23 Vill- Nagwan, Block-Itkhori	Road going towords Katkamasandi-Bhadrakali	2	NA	0.20	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 24 Vill- Bhaduli, Block-Itkhori	Road going towords Katkamasandi-Bhadrakali	3	NA	0.14	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 25 Vill- Bhaduli, Block-Itkhori	Road going towords Katkamasandi-Bhadrakali	4	NA	0.36	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 26 Vill- Bhaduli, Block-Itkhori	Road going towords Katkamasandi-Bhadrakali	18	NA	0.18	Unpaved	Unpaved	Lease Owner	Route Map attached

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Mohna 27 Vill- Bhaduli, Block- Itkhori	Road going towords Katkamasandi-Bhadrakali	6	NA	0.21	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 28	Road going towords Rajbar	5	NA	0.27	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 29	Road going towords Rajbar	3	NA	0.18	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 30	Road going towords Rajbar	8	NA	0.11	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 31	Road going towords Rajbar	2	NA	0.09	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 32	Road going towords Rajbar	2	NA	0.27	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 33	Road going towords Rajbar	7	NA	0.12	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 34	Road going towords Rajbar	2	NA	0.73	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 35	Road going towords Rajbar	3	NA	0.78	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 36	Road going towords NH522	15	NA	0.13	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 37	Road going towords NH522	8	NA	0.30	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 38 Vill- Khaira, Block- Pathalgarha	Road going towords NH522	6	NA	0.22	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 39 Vill- Khaira, Block- Pathalgarha	Road going towords NH522	3	NA	0.51	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 40 Vill- Khaira, Block- Pathalgarha	Road going towords NH522	3	NA	0.06	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 41 Vill- Nongaon, Block-Pathalgarha	Road going towords Gopiur	6	NA	0.18	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 42 Vill- Nongaon, Block-Pathalgarha	Road going towords Gopipur	16	NA	0.07	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 43 Vill- Singhani, Block- Pathalgarha	Road going towords Gopipur	2	NA	1.20	Unpaved	Unpaved	Lease Owner	Route Map attached

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Mohna 44 Vill- Singhani, Block-Pathalgarha	Road going towords Gopipur	2	NA	1.50	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 45 Vill- Tetariya, Block-Pathalgarha	Road going towords Koranbe	10	NA	0.10	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 46 Vill- Dumbi, Block-Pathalgarha	Road going towords Pathalgara	1	NA	0.04	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 47 Vill- Dumbi, Block-Pathalgarha	Road going towords Hurmur	1	NA	0.14	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 48 Vill- Belhar, Block-Pathalgarha	Road going towords Pathalgara	1	NA	0.11	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 49 Vill- Belhar, Block-Pathalgarha	Road going towords Pathalgara	2	NA	0.16	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 50 Vill- Barwadih, Block-Pathalgarha	Road going towords Tapsa	2	NA	0.40	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 51 Vill- Barwadih, Block-Pathalgarha	Road going towords Singhani	1	NA	0.28	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 52 Vill- Singhani, Block-Pathalgarha	Road going towords Singhani	1	NA	0.05	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 53 Vill- Tapsa, Block-Simariya	Road going towords Singhani	4	NA	0.05	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 54 Vill- Tapsa, Block-Simariya	Road going towords Tapsa	2	NA	0.17	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 55 Vill- Tapsa, Block-Simariya	Road going towords Tapsa	4	NA	0.61	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 56 Vill- Tetariya, Block-Pathalgarha	Road going towords Obridih	5	NA	1.05	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 57 Vill- Khaira, Block-Pathalgarha	Road going towords Khaira	2	NA	1.36	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 58 Vill- Khaira, Block-Pathalgarha	Road going towords Chitua	1	NA	0.02	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 59 Vill- Khaira, Block-Pathalgarha	Road going towords Chitua	3	NA	0.03	Unpaved	Unpaved	Lease Owner	Route Map attached

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Mohna 60 Vill- Khaira, Block-Pathalgarha	Road going towords Bahera	2	NA	0.12	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 61 Vill- Shail, Block-Pathalgarha	Road going towords Khaira	9	NA	0.10	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 62 Vill- Shail, Block-Pathalgarha	Road going towords Khaira	2	NA	0.38	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 63 Vill- Shail, Block-Pathalgarha	Road going towords Khaira	2	NA	0.32	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 64 Vill- Shail, Block-Pathalgarha	Road going towords Meral	3	NA	0.56	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 65 Vill- Meramgara, Block-Pathalgarha	Road going towords Meral	2	NA	0.18	Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 66 Vill- Meramgara, Block-Pathalgarha	Road going towords Korambe	2	NA	0.07	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar River								
Morhar 01 Vill- Kasibar, Block-Pratappur	Road going towords Imamganj	29	NA	0.20	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 02 Vill- Kasibar, Block-Pratappur	Road going towords Imamganj	11	NA	0.66	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 03 Vill- Kasibar, Block-Pratappur	Road going towords Imamganj	16	NA	0.13	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 04	Road going towords Imamganj	3	NA	-	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 05 Vill- Bharhi, Block-Pratappur	Road going towords Baha	2	NA	0.34	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 06 Vill- Bharhi, Block-Pratappur	Road going towords Baha	2	NA	0.19	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 07 Vill- Bhusiya, Block-Pratappur	Road going towords Bishunpur	2	NA	0.06	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 08 Vill- Bhusiya, Block-Pratappur	Road going towords Bishunpur	1	NA	0.31	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 09 Vill- Bhusiya, Block-Pratappur	Road going towords Bishunpur	1	NA	0.16	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 10 Vill- Bhusiya, Block-	Road going towords	1	NA	0.19	Unpaved	Unpaved	Lease Owner	Route Map

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Pratappur	Bishunpur							attached
Morhar 11	Road going towords Bishunpur	1	NA	0.27	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 12 Vill- Bhusiya, Block- Pratappur	Road going towords Bishunpur	1	NA	0.25	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 13 Vill- Bhusiya, Block- Pratappur	Road going towords Bishunpur	2	NA	0.150	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 14 Vill- Humajang, Block- Pratappur	Road going towords Narotampur	1	NA	0.32	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 15 Vill- Humajang, Block- Pratappur	Road going towords Narotampur	3	NA	0.07	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 16 Vill- Lipta, Block- Pratappur	Road going towords Lipta	2	NA	0.13	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 17 Vill- Lipta, Block- Pratappur	Road going towords Bilaspur	1	NA	0.60	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 18 Vill- Lipta, Block- Pratappur	Road going towords Lipta	1	NA	0.19	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 19 Vill- Bansi, Block- Pratappur	Road going towords Bansi	4	NA	0.18	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 20 Vill- Nanaikala, Block- Pratappur	Road going towords Bhaunraj	1	NA	0.60	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 21 Vill- Nanaikala, Block- Pratappur	Road going towords Bhaunraj	1	NA	0.31	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 22 Vill- Ghorighat, Block- Pratappur		6	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 23 Vill- Ghorighat, Block- Pratappur		5	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 24 Vill- Bajrahi, Block- Pratappur	Road going towords Imamganj	61	NA	0.88	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 25 Vill- Rajpur, Block- Pratappur	Road going towords Imamganj	42	NA	0.11	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 26 Vill- Kaura, Block- Pratappur	Road going towords Imamganj	30	NA	0.18	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 27 Vill- Kaura, Block- Pratappur	Road going towords Imamganj	4	NA	0.64	Unpaved	Unpaved	Lease Owner	Route Map attached

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Morhar 28 Vill- Charkakhurd, Block- Pratappur	Road going towords Imamganj	18	NA	0.07	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 29 Vill- Fagua, Block- Pratappur	Road going towords Herhanj	2	NA	0.15	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 30 Vill- Fagua, Block- Pratappur	Road going towords Herhanj	5	NA	0.12	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 31 Vill- Lipta, Block- Pratappur	Road going towords Kathautia	10	NA	0.71	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 32 Vill- Jirabar, Block- Pratappur	Road going towords Kathautia	8	NA	0.13	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 33 Vill- Jirabar, Block- Pratappur	Road going towords Kathautia	8	NA	0.12	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 34 Vill- Senduriya, Block- Pratappur	Road going towords Sangrampur Klan	3	NA	0.19	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 35 Vill- Senduriya, Block- Pratappur	Road going towords Sangrampur Klan	5	NA	0.74	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 36 Vill- Hesatu, Block- Pratappur	Road going towords Hestu	8	NA	0.14	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 37 Vill- Hesatu, Block- Pratappur	Road going towords Hestu	4	NA	0.56	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 38 Vill- Hesatu, Block- Pratappur	Road going towords Senduria	2	NA	0.10	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 39	Road going towords Senduria	16	NA	0.24	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 40	Road going towords Hestu	1	NA	0.13	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 41	Road going towords	1	NA	0.55	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 42	Romeo Bittu	1	NA	0.55	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 43	Road going towords Romeo Bittu	1	NA	0.170	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 44	Road going towords Romeo Bittu	1	NA	0.770	Unpaved	Unpaved	Lease Owner	Route Map attached

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Baki River								
Baki 01 Vill- Tesar Chepa, Block- Tandwa	Road going towords badumpur	1	NA	1.05	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 02 Vill- Tesar Chepa, Block- Tandwa	Road going towords simari tanwa road	1	NA	1.15	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 03 Vill- Baid Bigha, Block- Tandwa	Road going towords tektha	2	NA	0.73	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 04 Vill- Baid Bigha, Block- Tandwa	Road going towords tektha	1	NA	0.93	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 05 Vill- Baid Bigha, Block- Tandwa	Road going towords Phulwaria	2	NA	0.28	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 06 Vill- Phulwariya, Block- Tandwa	Road going towords Phulwaria	1	NA	0.09	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 07 Vill- Phulwariya, Block- Tandwa	Road going towords simari tanwa	1	NA	0.08	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 08 Vill- Tektha, Block- Tandwa	Road going towords simari tanwa	2	NA	0.12	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 09 Vill- Misrol, Block- Tandwa	Road going towords simari tanwa	1	NA	0.13	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 10 Vill- Kabra, Block- Tandwa	Road going towords simari tanwa road	1	NA	0.06	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 11 Vill- Teliyadih, Block- Tandwa	Road going towords simari tanwa road	1	NA	0.19	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 12 Vill- Khadhaiya, Block- Tandwa	Road going towords simari tanwa road	1	NA	0.34	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 13 Vill- Khadhaiya, Block- Tandwa	Road going towords simari tanwa road	1	NA	0.38	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 14 Vill- Khadhaiya, Block- Tandwa	Road going towords simari tanwa road	1	NA	0.16	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 15 Vill- Brinda, Block- Tandwa	Road going towords simari tanwa road	1	NA	0.65	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 16 Vill- Sisai, Block- Tandwa	Road going towords simari tanwa road	2	NA	0.66	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 17 Vill- Sisai, Block- Tandwa	Road going towords sirsai	1	NA	0.12	Unpaved	Unpaved	Lease Owner	Route Map attached

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Baki 18 Vill- Sisai, Block- Tandwa	Road going towords sirsai	3	NA	0.11	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 19 Vill- Katahi Misrol, Block- Tandwa	Road going towords pachnara	11	NA	0.09	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 20 Vill- Katahi Misrol, Block- Tandwa	Road going towords sirsai	9	NA	0.37	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 21 Vill- Katahi Misrol, Block- Tandwa	Road going towords pachnara	2	NA	0.21	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 22 Vill- Garilaung, Block- Tandwa	Road going towords garilong	2	NA	0.06	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 23 Vill- Garilaung, Block- Tandwa	Road going towords simari tanwa road	3	NA	0.37	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 24 Vill- Garilaung, Block- Tandwa	Road going towords simari tanwa road	2	NA	0.44	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 25 Vill- Raham, Block- Tandwa	Road going towords gari laung	1	NA	0.64	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 26 Vill- Raham, Block- Tandwa	Road going towords garilong	1	NA	0.72	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 27 Vill- Raham, Block- Tandwa	Road going towords garilong	1	NA	0.55	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 28 Vill- Raham, Block- Tandwa	Road going towords SH 7	1	NA	0.36	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 29 Vill- Raham, Block- Tandwa	Road going towords simari laranda	1	NA	0.04	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 30 Vill- Raham, Block- Tandwa	Road going towords simari tanwa road	2	NA	0.25	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 31 Vill- Raham, Block- Tandwa	Road going towords simari tanwa road	1	NA	0.30	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 32 Vill- Raham, Block- Tandwa	Road going towords simari tanwa road	2	NA	0.03	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 33 Vill- Laranga, Block- Tandwa	Road going towords SH 7	2	NA	0.22	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 34 Vill- Laranga, Block- Tandwa	Road going towords SH 7	2	NA	0.09	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 35 Vill- Raham, Block-	Road going towords simari	2	NA	0.09	Unpaved	Unpaved	Lease Owner	Route Map

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Tandwa	tanwa road							attached
Baki 36 Vill- Dundua, Block- Tandwa	Road going towords simari tanwa road	4	NA	0.19	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 37 Vill- Laranga, Block- Tandwa	Road going towords simari tanwa road	9	NA	0.15	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 38 Vill- Laranga, Block- Tandwa	Road going towords simari tanwa road	16	NA	0.11	Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 39 Vill- Laranga, Block- Tandwa	Road going towords bahera	54	NA	0.07	Unpaved	Unpaved	Lease Owner	Route Map attached

Cluster:

Cluster No	Transportation Route No	Number of tippers /day of cluster	Number of tippers /day of all the clusters on route	Length of Route in KM	Type of Road (Black Topped/ unpaved)	Recommendation for road(Black Topped/ unpaved)	The road will be Constructed by Govt/Lease Owner	Route Map & Location
Damodar 01, 02 & 03		10	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 04-13		32	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 14-17		26	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 18-25		141	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 01- 21		42	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 22-27		18	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 28-32		15	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 34-38		11	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi 42-43		2	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 03, 04		57	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 06-16		122	NA		Unpaved	Unpaved	Lease Owner	Route Map attached

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Lilajan 19-29		152	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 30-32		169	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 33-36		108	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 40-43		57	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 01-05		46	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 06-07		15	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 09-10		11	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 11-12		5	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 13-35		125	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 36-37		23	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 38-40		12	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 41-43		24	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 46-47		2	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 48-49		3	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 50-55		14	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 57-60		8	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Mohna 61-65		18	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 01-02		40	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 05-06		4	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 07-13		7	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 14-15		4	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 16-19		8	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 22-23		11	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 26-27		34	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 29-30		7	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 31-33		26	NA		Unpaved	Unpaved	Lease Owner	Route Map attached

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Morhar 34-39		38	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 41-42		2	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar 43-44		2	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 01-07		8	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 08-14		8	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 15-18		7	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 19-21		22	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 22-24		7	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 25-28		4	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 29-32		6	NA		Unpaved	Unpaved	Lease Owner	Route Map attached
Baki 33-39		88	NA		Unpaved	Unpaved	Lease Owner	Route Map attached

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Annexure-V

Final List of Potential Mining Leases (existing & proposed)

Rivers

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Sl.No	POTENTIAL SANDBAR	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:1.56, Depth :1 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing / Proposed
1	PO_CH_TD_DA_19	Damodar 23 Vill- Kutki, Block- Tandwa	3.44		More than 0.25 km	Yes Area 6.64 ha	53664	32198.4	Sand	Proposed
2	PO_CH_TD_DA_21	Damodar 25 Vill- Kutki, Block- Tandwa	3.2		More than 0.25 km		49920	29952	Sand	Proposed

Sl.No	POTENTIAL SANDBAR	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:1.55, Depth :1 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing/ Proposed
1	PO_CH_GD_GH_28	Garhi 32	0.9		0.40 km		13950	8370	Sand	Proposed

Sl.No	POTENTIAL SANDBAR	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 :1 m)	Total excavation in Tonnes (Considering 60% as per EMGSM, 2020	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing/ Proposed
1	PO_CH_HG_LJ_1A	Lilajan 01 Vill-Uraili Bahera, Block-Hunterganj	24.7		More than 0.25 km	NO	390260	234156	Sand	Proposed
2	PO_CH_HG_LJ_01	Lilajan 02 Vill-Suggi Pandarokalan, Block-Hunterganj	5.72		More than 0.25 km	Yes Area: 1.46+ 4.26=5.72	90376	54225.6	Sand	Proposed
3	PO_CH_HG_LJ_02	Lilajan 03 Vill-Garkedali,Block-Hunterganj	9.56		More than 0.25 km	Yes, Area: 14.49 Ha.	151048	90628.8	Sand	Proposed
4	PO_CH_HG_LJ_03	Lilajan 04 Vill-Nawadih, Block-Hunterganj	4.93		More than 0.25 km		77894	46736.4	Sand	Proposed
5	PO_CH_HG_LJ_04	Lilajan 05 Vill-Kedalikalan, Patwa, Banki, Kobani,Block-Hunterganj	46.54		More than 0.25 km	NO	735332	441199.2	Sand	Proposed
6	PO_CH_HG_LJ_05	Lilajan 06 Vill-Sahi,Block-Hunterganj	0.37		More than 0.25 km	Yes, Area: 23.01 Ha.	5846	3507.6	Sand	Proposed
7	PO_CH_HG_LJ_06	Lilajan 07 Vill-Sahi, Block-Hunterganj	1.02		More than 0.25 km		16116	9669.6	Sand	Proposed
8	PO_CH_HG_LJ_07	Lilajan 08 Vill-Sahi, Block-Hunterganj	0.53		More than 0.25		8374	5024.4	Sand	Proposed

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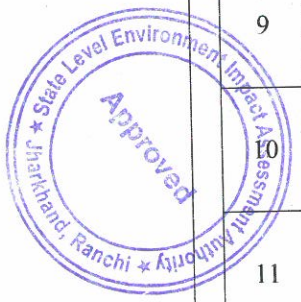

					km					
9	PO_CH_HG_LJ_08	Lilajan 09 Vill-Sahi, Block-Hunterganj	0.28		More than 0.25 km		4424	2654.4	Sand	Proposed
10	PO_CH_HG_LJ_10	Lilajan 10 Vill-Sahi, Block-Hunterganj	1.51		More than 0.25 km		23858	14314.8	Sand	Proposed
11	PO_CH_HG_LJ_13	Lilajan 12 Vill-Sahi, Block-Hunterganj	6.66		More than 0.25 km		105228	63136.8	Sand	Proposed
12	PO_CH_HG_LJ_14	Lilajan 13 Vill-Sahi, Block-Hunterganj	10.74		More than 0.25 km		169692	101815.2	Sand	Proposed
13	PO_CH_HG_LJ_15	Lilajan 14 Vill-Sahi, Block-Hunterganj	1.9		More than 0.25 km		30020	18012	Sand	Proposed
14	PO_CH_HG_LJ_30	Lilajan 26 Vill-Lohsinghana Kalan, Block-Hunterganj	3.46		More than 0.25 km	No	54668	32800.8	Sand	Proposed

Sl.No	POTENTIAL SANDBAR	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)	Geological in Tonnes (Bulk Density:1.55)	60 % of Geological Total excavation in Tonnes /Annum	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing/ Proposed

1	PO_CH_PR_MH_08	Morhar 06 Vill- Bharhi, Block- Pratappur	0.53		More than 0.25 km		8215	4929	Sand	Proposed

Patta Lands/Khatedari Land: (existing & proposed)

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

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

Name ofReservoir /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

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M-Sand Plants :(existing & proposed)

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

Annexure-VI

Final Cluster & Contiguous Cluster details

Clusters:

River Name	Cluster No.	Lease No	Location (Riverbed Patta Land)	Village	Area (in Ha.)	Total Excavation (Ton)	Total Mineral Excavation (Ton) (Considering 60% as per EMGSM, 2020
Damodar	1	Damodar 23, & 25	Riverbed	Kutki	6.64	103584	62150.4
Lilajan	2	Lilajan 02	Riverbed	Sugi, Pandarokalan	5.72	90376	54225.6
	3	Lilajan 03, 04	Riverbed	Garkedali, Nawadih	14.49	228942	1,37,365.2
	4	Lilajan 06-14	Riverbed	Sahi	23.01	363558	218134.8

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)
Damodar	NA	NA	NA	NA	NA	NA	NA	NA
Garhi	NA	NA	NA	NA	NA	NA	NA	NA
Lilajan	NA	NA	NA	NA	NA	NA	NA	NA
Morhar	NA	NA	NA	NA	NA	NA	NA	NA

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Annexure-VII

Final Transportation Routes for individual leases and leases in Cluster

Lease No	Transportation Route No	Number of tippers /day of lease	Number of tippers /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
Damodar 23 Vill- Kutki, Block-Tandwa	Road going towords Benti	13	NA	0.11	Unpaved	Unpaved	Lease Owner	Route Map attached
Damodar 25 Vill- Kutki, Block-Tandwa	Road going towords Mohan Nagar	12	NA	0.34	Unpaved	Unpaved	Lease Owner	Route Map attached
Garhi River								
Garhi 32	Road going towords Majhgaon	3	NA	0.11	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan River								
Lilajan 01 Vill-Uraili Bahera, Block-Hunterganj	Road going towords lansar	98	NA	0.860	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 02 Vill-Suggi Pandarokalan, Block-Hunterganj	Road going towords sugasot	22	NA	0.160	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 03 Vill-Garkedali,Block-Hunterganj	Road going towords lahsar	38	NA	0.080	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 04 Vill-Nawadih, Block-Hunterganj	Road going towords lansar	19	NA	0.170	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 05 Vill-Kedalikalan, Patwa, Banki, Kobani,Block-Hunterganj	Road going towords chakalpur	184	NA	0.570	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 06 Vill-Sahi,Block-Hunterganj	Road going towords bala	1	NA	0.370	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 07 Vill-Sahi, Block-Hunterganj	Road going towords raharbar	4	NA	0.150	Unpaved	Unpaved	Lease Owner	Route Map attached

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Lilajan 08 Vill-Sahi, Block-Hunterganj	Road going towords raharbar	2	NA	0.170	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 09 Vill-Sahi, Block-Hunterganj	Road going towords raharbar	1	NA	0.460	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 10 Vill-Sahi, Block-Hunterganj	Road going towords raharbar	6	NA	0.190	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 12 Vill-Sahi, Block-Hunterganj	Road going towords ketaribar	26	NA	0.610	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 13 Vill-Sahi, Block-Hunterganj	Road going towords dumri	42	NA	1.80	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 14 Vill-Sahi, Block-Hunterganj	Road going towords dumri	8	NA	0.31	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 26 Vill-Lohsinghana Kalan, Block-Hunterganj	Road going towords bonra	14	NA	0.340	Unpaved	Unpaved	Lease Owner	Route Map attached
Morhar River								
Morhar 06 Vill- Bharhi, Block-Pratappur	Road going towords Baha	2	NA	0.19	Unpaved	Unpaved	Lease Owner	Route Map attached

Cluster No	Transportation Route No	Number of tippers /day of cluster	Number of tippers /day of all the clusters on route	Length of Route in KM	Type of Road (Black Topped/ unpaved)	Recommendation for road(Black Topped/ unpaved)	The road will be Constructed by Govt/Lea Se Owner	Route Map & Location
Damodar 23 & 25	Road going towords Benti & Mohan Nagar	25	NA	0.45	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 02	Road going towords sugasot	22	NA	0.160	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 03, 04	Road going towords lahsar	57	NA	0.25	Unpaved	Unpaved	Lease Owner	Route Map attached
Lilajan 06-14	Road going towords Bala, Raharbar & Dumri	90	NA	4.06	Unpaved	Unpaved	Lease Owner	Route Map attached

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ANNEXURE-I

(Route Map)





N
W E
S

HAUL ROAD MAP OF THE PROJECT SITE

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Impact Assessment Authority * State Level Environment

Legend

- Project Site
- Houl Road
- Metalled Road

Project: PO_CH_PR_MH_01_02
PO_CH_PR_MH_03
Morhar River
Dist-Chatra

Source: Google Earth Image

Graphical Scale:

0 500 1Km



N
W E
S

HAUL ROAD MAP OF THE PROJECT SITE

Legend

- Project Site
- Houl Road
- Metalled Road

Approved
State Level Environment Impact Assessment Authority * Jharkhand

Project: PO_CH_PR_MH_05
Morhar River
Dist-Chatra

Source: Google Earth Image

Graphical Scale:

0 250 500M



N
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HAUL ROAD MAP OF THE PROJECT SITE

Legend

- Project Site
- Houl Road
- Metalled Road

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State Level Environment Impact Assessment Authority * Jharkhand, Ranchi

Project: PO_CH_PR_MH_06
Morhar River
Dist-Chatra

Source: Google Earth Image

Graphical Scale:

0 50 100 200 300 300M



N

W E

S

HAUL ROAD MAP OF THE PROJECT SITE

Legend

- Project Site
- Houl Road
- Metalled Road

Approved
State Level Environment Impact Assessment Authority * Jhar

Project: PO_CH_PR_MH_07
PO_CH_PR_MH_08
Morhar River
Dist-Chatra

Source: Google Earth Image

Graphical Scale:

0 250 500M



N
W E
S

HAUL ROAD MAP OF THE PROJECT SITE

Legend

- Project Site
- Houl Road
- Metalled Road

Approved
Impact Assessment Authority * State Level Environment * Jharkhand, Ranchi

Project: PO_CH_PR_MH_18A
PO_CH_PR_MH_19_20
Morhar River
Dist-Chatra

Source: Google Earth Image

Graphical Scale:

0 100 200 300 400M



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HAUL ROAD MAP
OF THE PROJECT SITE

Legend

Project Site

Houl Road

Metalled Road

Impact Assessment Authority * State Level Environment * Jharkhand
Approved

Project:PO_CH_PR_MH_25
PO_CH_PR_MH_26_27
Morhar River
Dist-Chatra

Source: Google Earth Image

Graphical Scale:

0 100 200 300 400M



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HAUL ROAD MAP
OF THE PROJECT SITE

Legend

Project Site

Houl Road

Metalled Road

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Project:PO_CH_PR_MH_29
Mohar River
Dist-Chatra

Source: Google Earth Image

Graphical Scale:

0 100 200 300 400M



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HAUL ROAD MAP OF THE PROJECT SITE

Legend

- Project Site
- Houl Road
- Metalled Road

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Project:PO_CH_PR_MH_33
Mohar River
Dist-Chatra

Source: Google Earth Image

Graphical Scale:

0 100 200 300M



N

W E

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HAUL ROAD MAP OF THE PROJECT SITE

Legend

- Project Site
- Houl Road
- Metalled Road

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State Level Environment Impact Assessment Authority * Jharkhand

Project:PO_CH_PR_MH_34
Morhar River
Dist-Chatra

Source: Google Earth Image

Graphical Scale:

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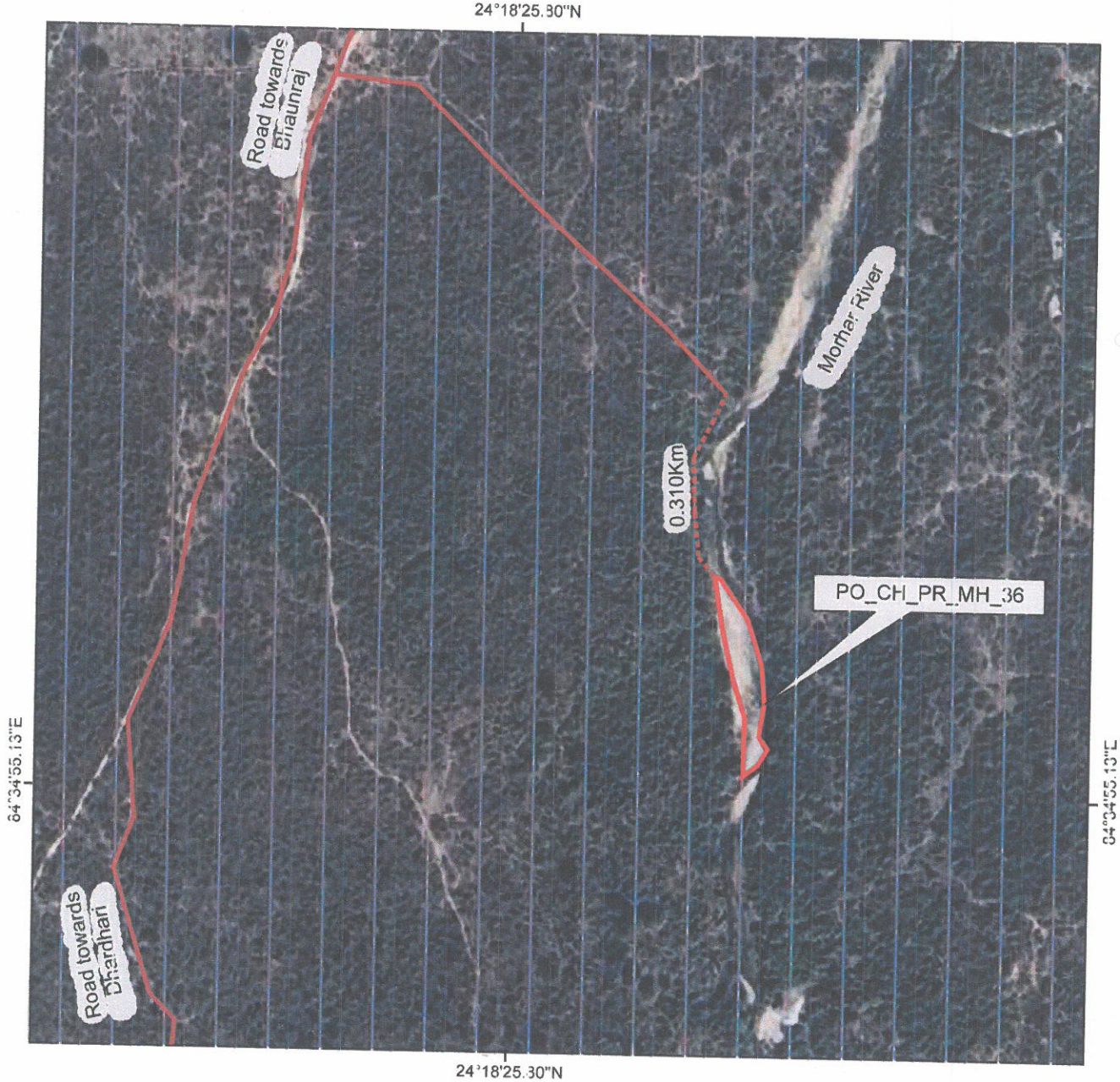

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HAUL ROAD MAP OF THE PROJECT SITE

Legend

Project Site

Houl Road

Metalled Road

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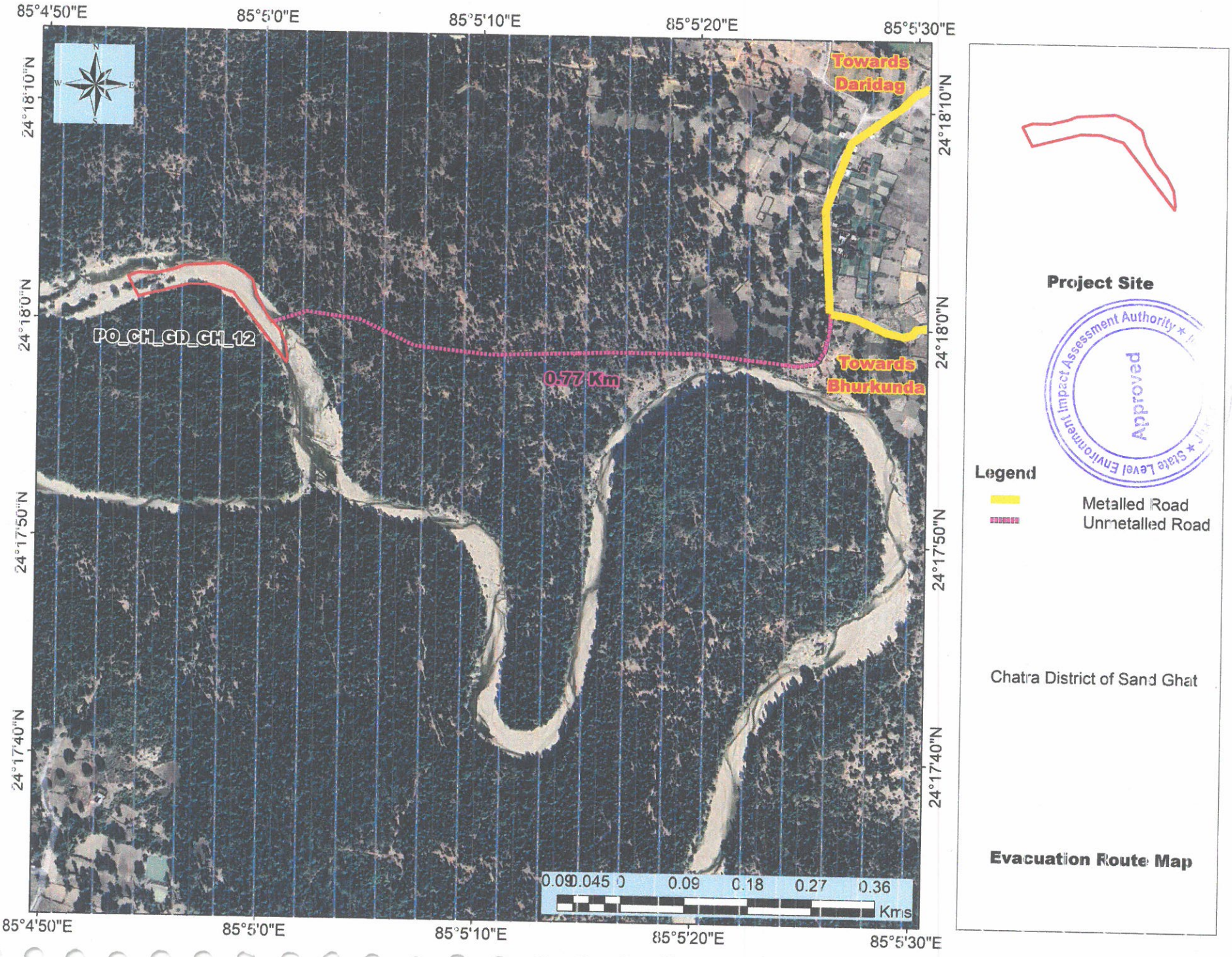
Project:PO_CH_PR_MH_36
Mornar River
Dist-Chatra

Source: Google Earth Image

Graphical Scale:

0 100 200M



Project Site

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State Level Environment Impact Assessment Authority

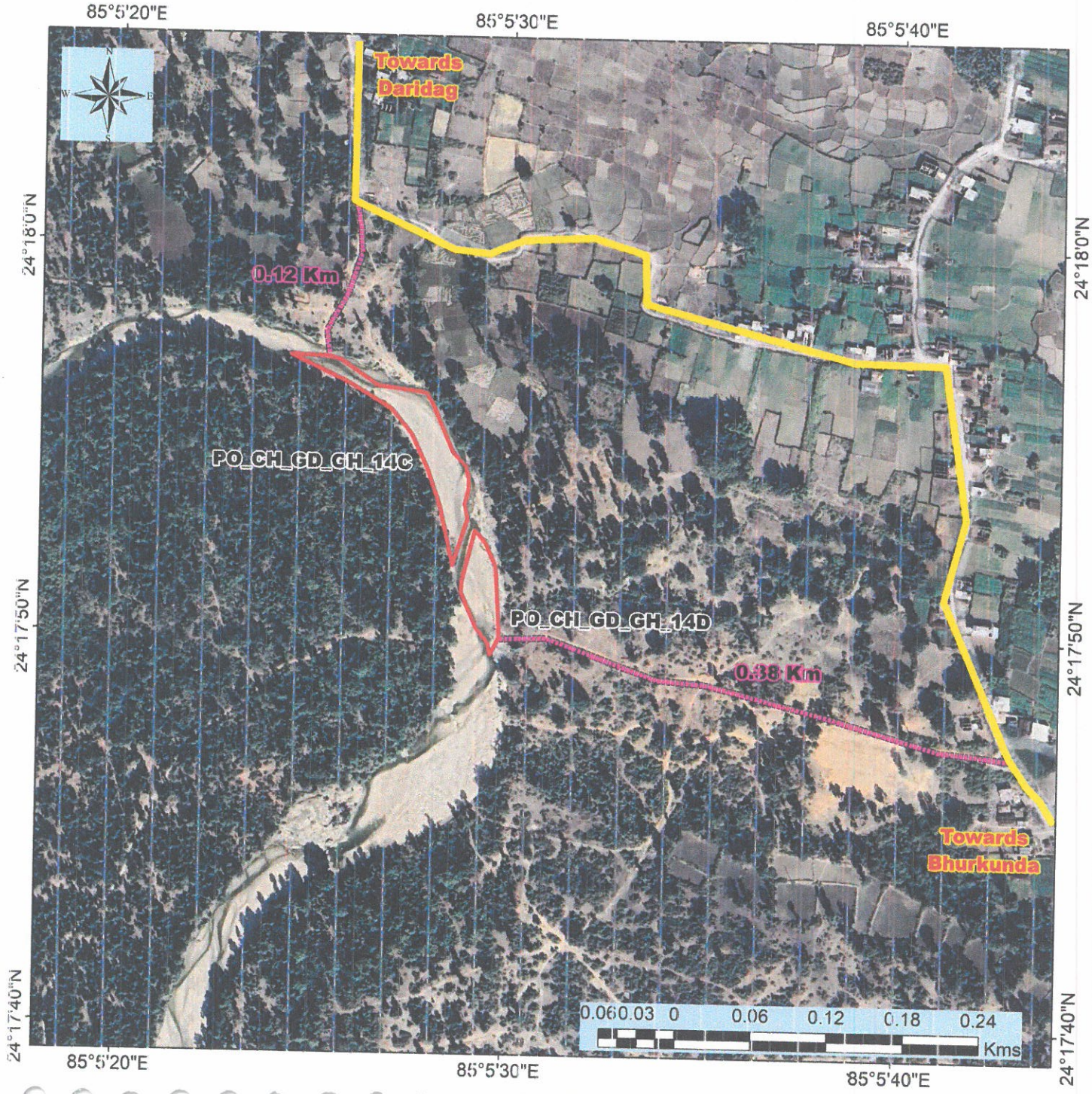
Legend

Metalled Road

Unmetalled Road

Chatra District of Sand Ghat

Evacuation Route Map





Project Site

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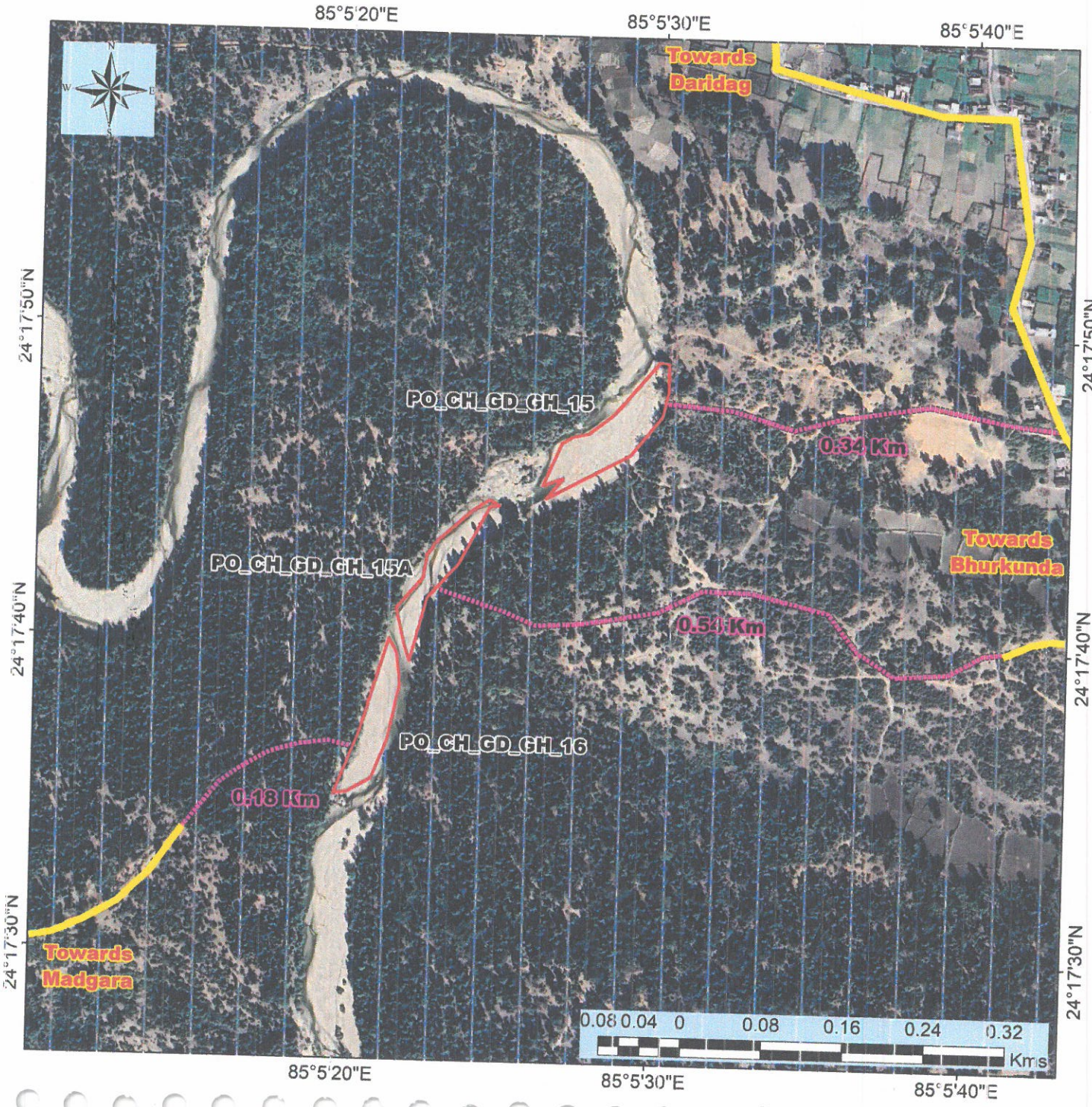
State Level Environment Impact Assessment Authority

Legend

Metalled Road
Unmetalled Road

Chatra District of Sand Ghat

Evacuation Route Map



Project Site

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State Level Environment Impact Assessment Authority

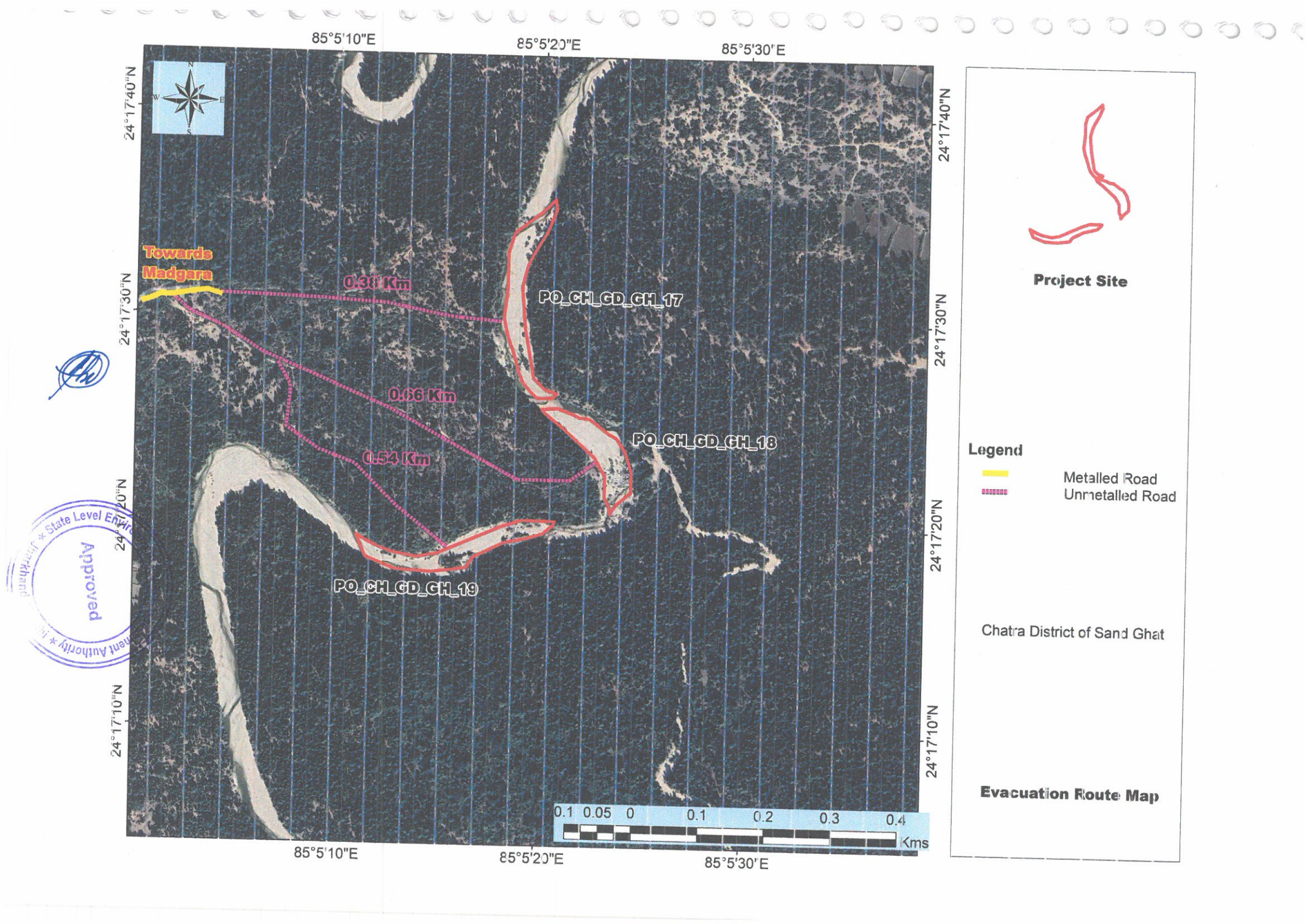
Legend

Metalled Road

Unmetalled Road

Chatra District of Sand Ghat

Evacuation Route Map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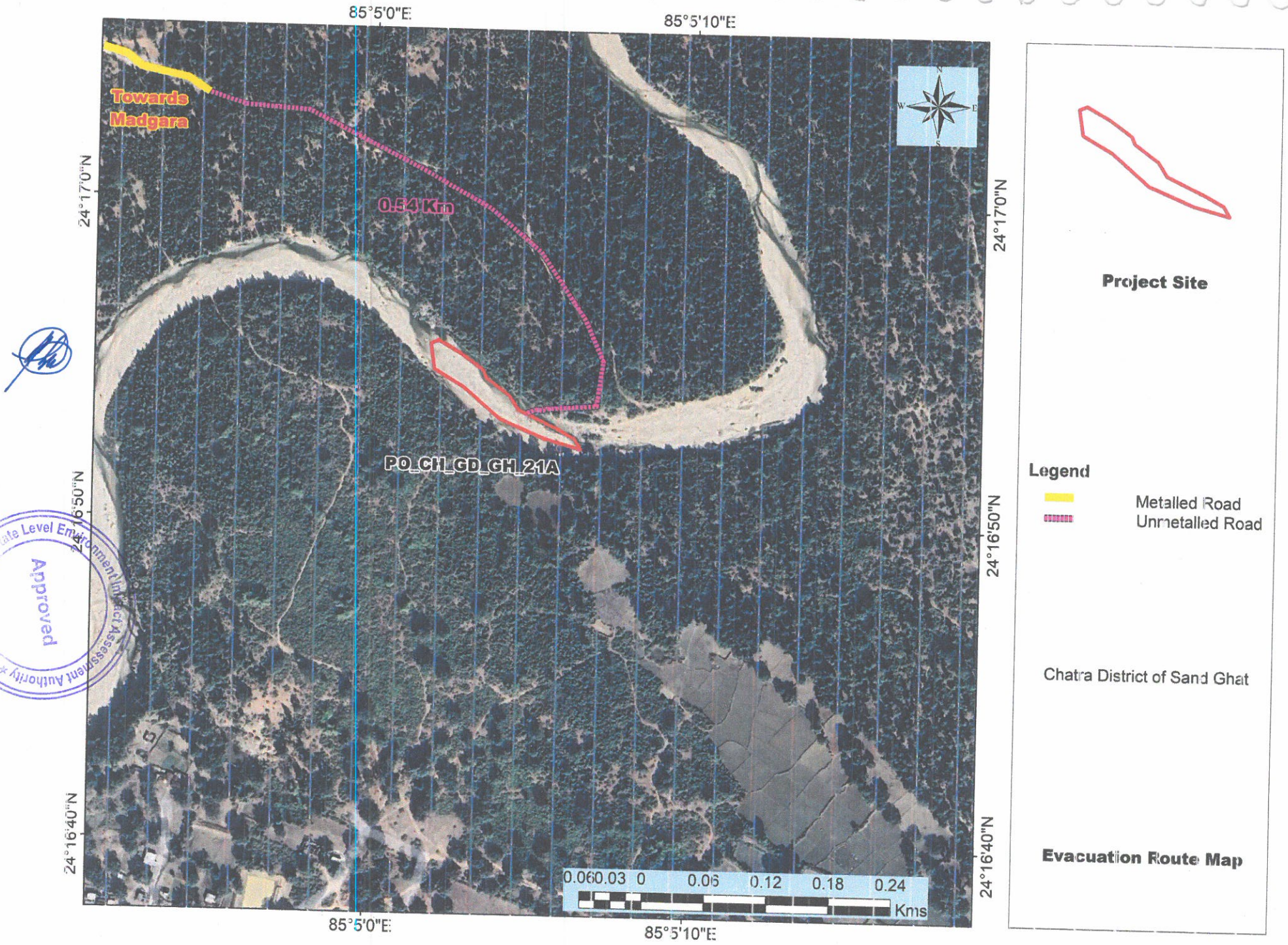
85°5'20"E
85°5'30"E
24°17'40"N
24°17'30"N
24°17'20"N
24°17'10"N
Towards Madgara
0.38 Km
0.66 Km
0.54 Km
PO_CH_GD_GH_17
PO_CH_GD_GH_18
PO_CH_GD_GH_19
0.1 0.05 0 0.1 0.2 0.3 0.4
Kms
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map
Approved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24°17'0"N
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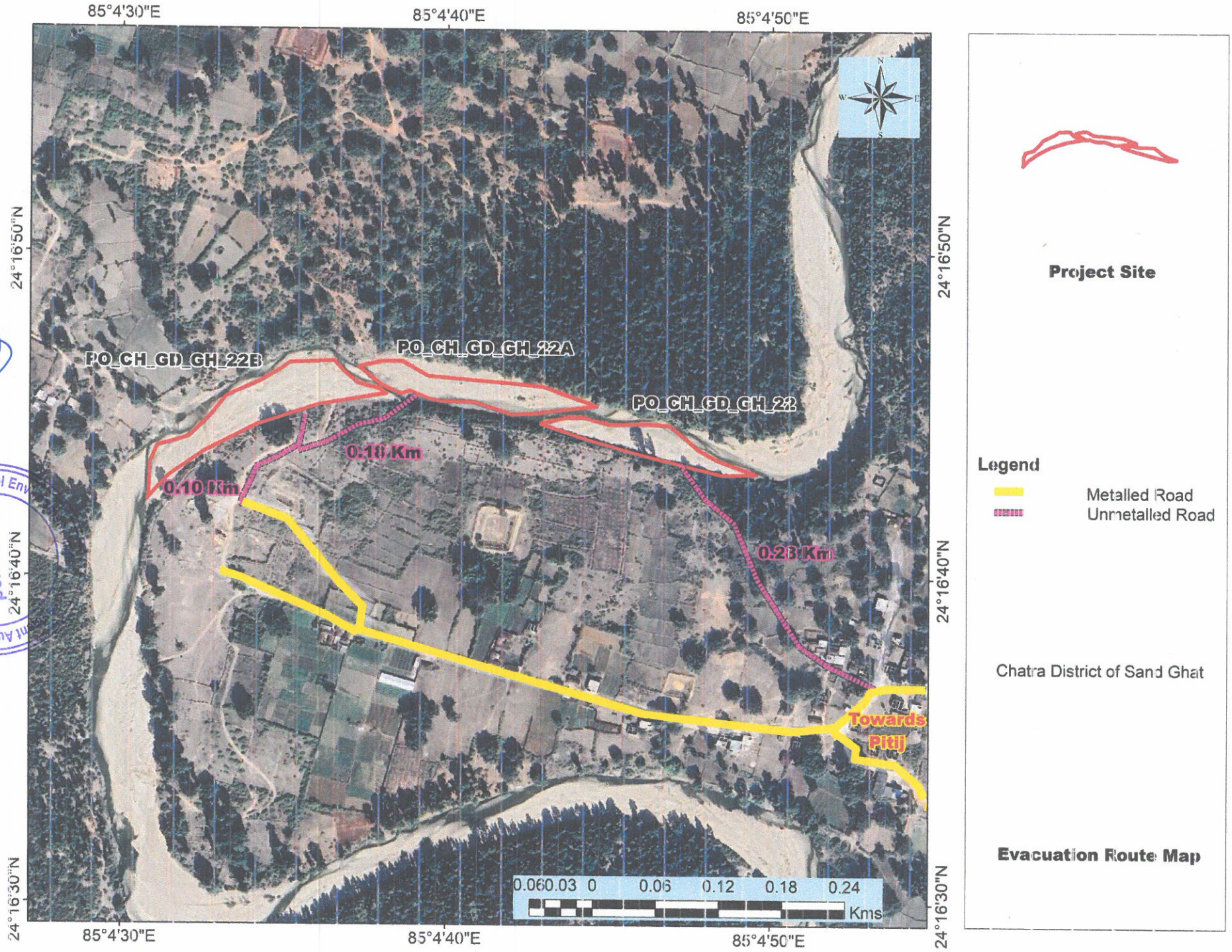
24°16'40"N
Towards
Madgara
0.54 Km
PO_CH_GD_GH_21A
0.060.03 0 0.06 0.12 0.18 0.24
Kms
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map
Approved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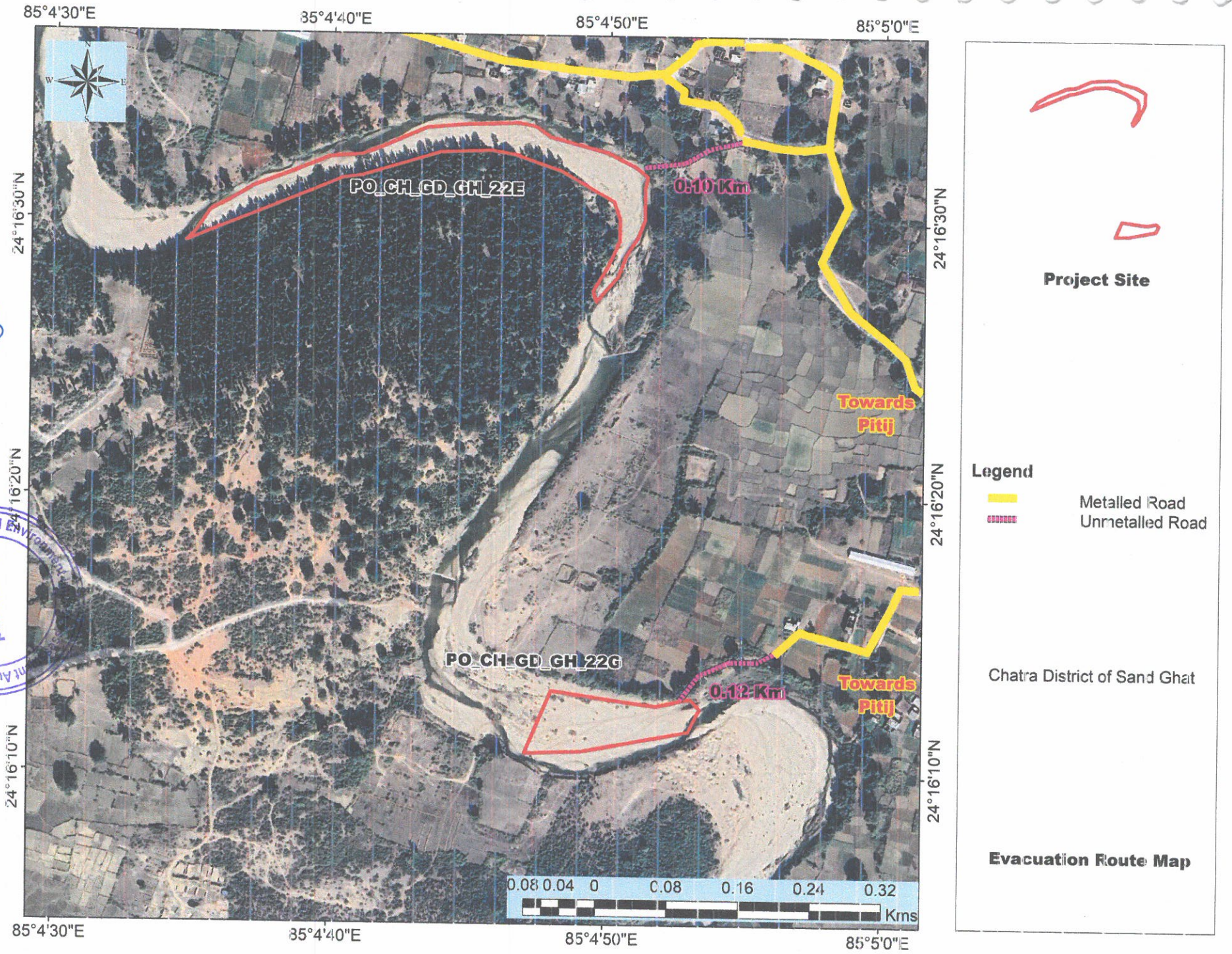
24°16'50"N
24°16'40"N
24°16'30"N
PO_CH_GD_GH_22B
PO_CH_GD_GH_22A
PO_CH_GD_GH_22
0.18 Km
0.10 Km
0.28 Km
Towards Pitij
0.060.03 0 0.06 0.12 0.18 0.24
Kms
N
S
E
W
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map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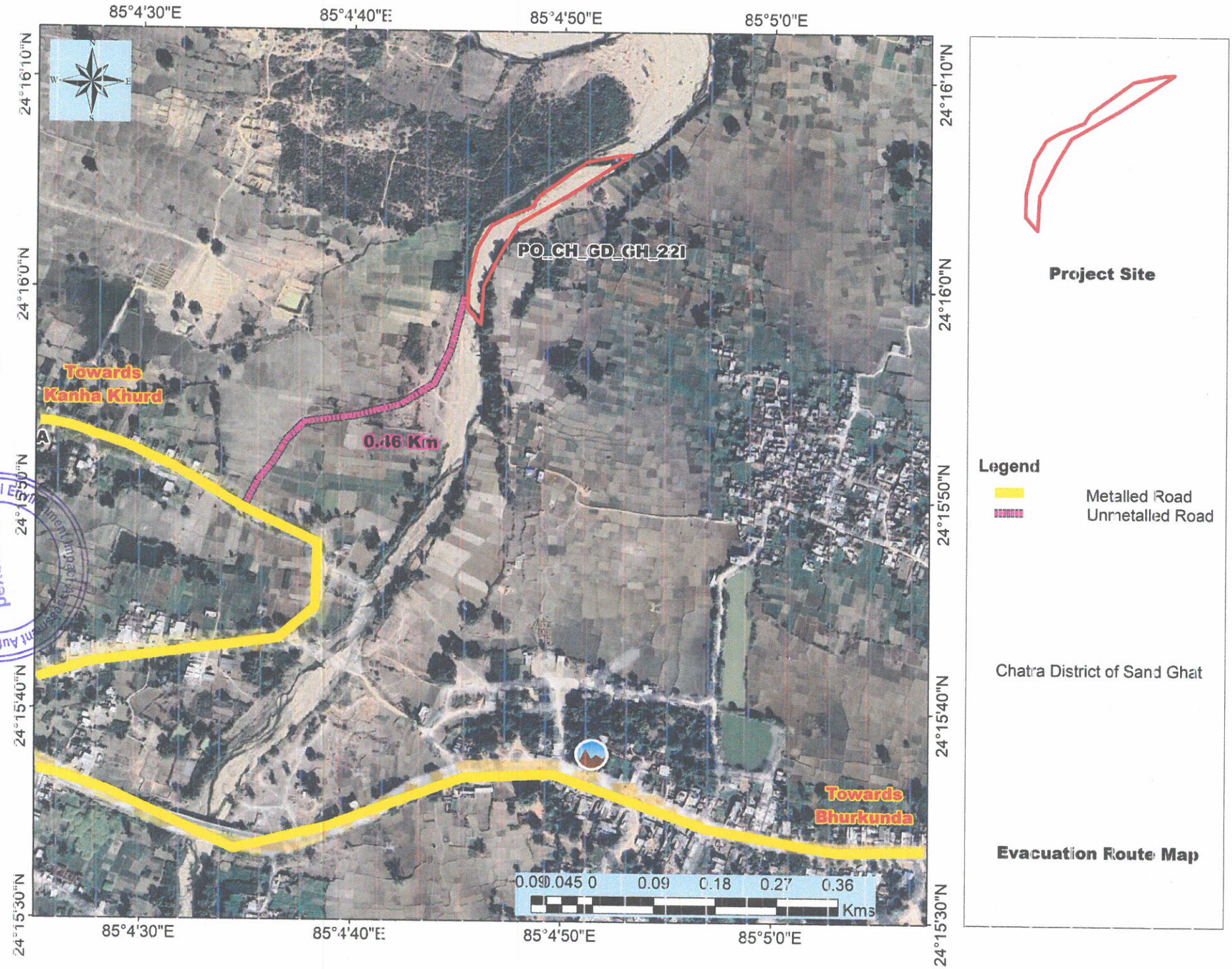
24°16'20"N
24°16'10"N
PO_CH_GD_GH_22E
0.10 Km
Towards Pitij
PO_CH_GD_GH_22G
0.12 Km
Towards Pitij
0.08 0.04 0 0.08 0.16 0.24 0.32
Kms
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map
Approved
State Level Environment Impact Authority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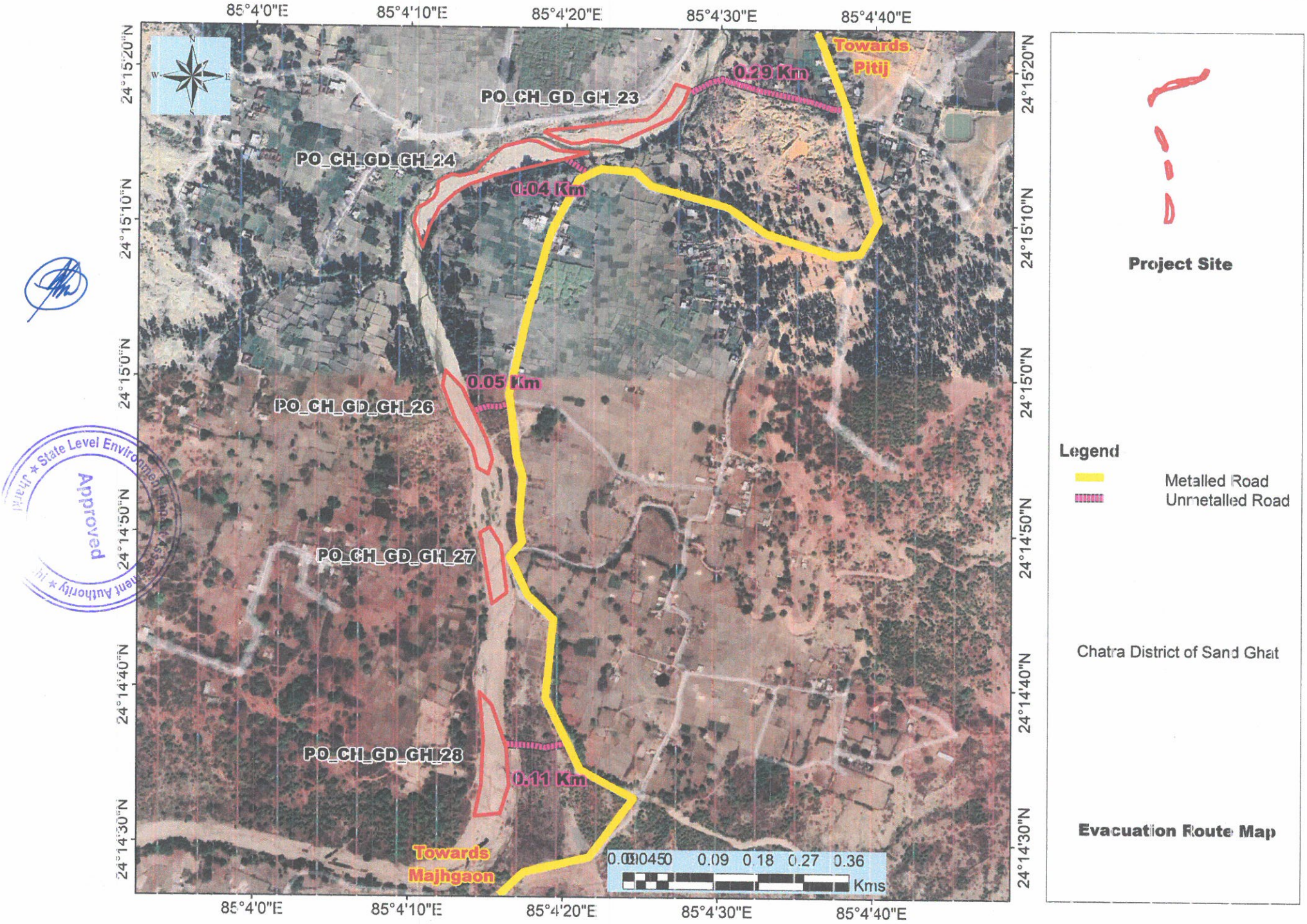
24°15'40"N
24°15'30"N
PO_CH_GD_GH_22I
0.46 Km
Towards
Kanha Khurd
Towards
Bhurkunda
0.09 0.045 0 0.09 0.18 0.27 0.36
Kms
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map

Approved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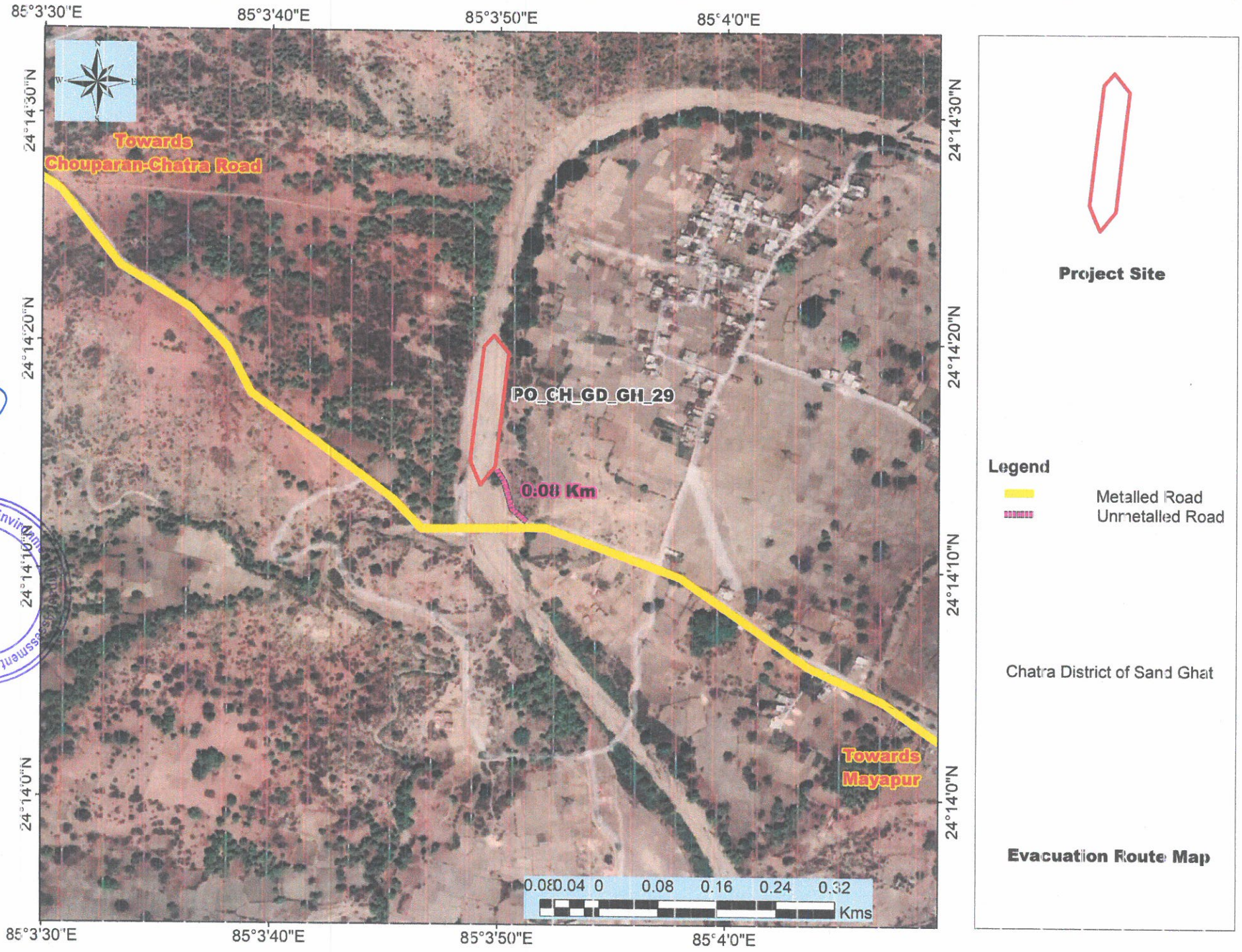
24°14'50"N
24°14'40"N
24°14'30"N
Towards Pitij
0.29 Km
PO_CH_GD_GH_23
PO_CH_GD_GH_24
0.04 Km
0.05 Km
PO_CH_GD_GH_26
PO_CH_GD_GH_27
PO_CH_GD_GH_28
0.11 Km
Towards Majhgaon
0.00 0.045 0.09 0.18 0.27 0.36
Kms
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map
Approved
State Level Environment Impact Assessment Authority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24°14'20"N
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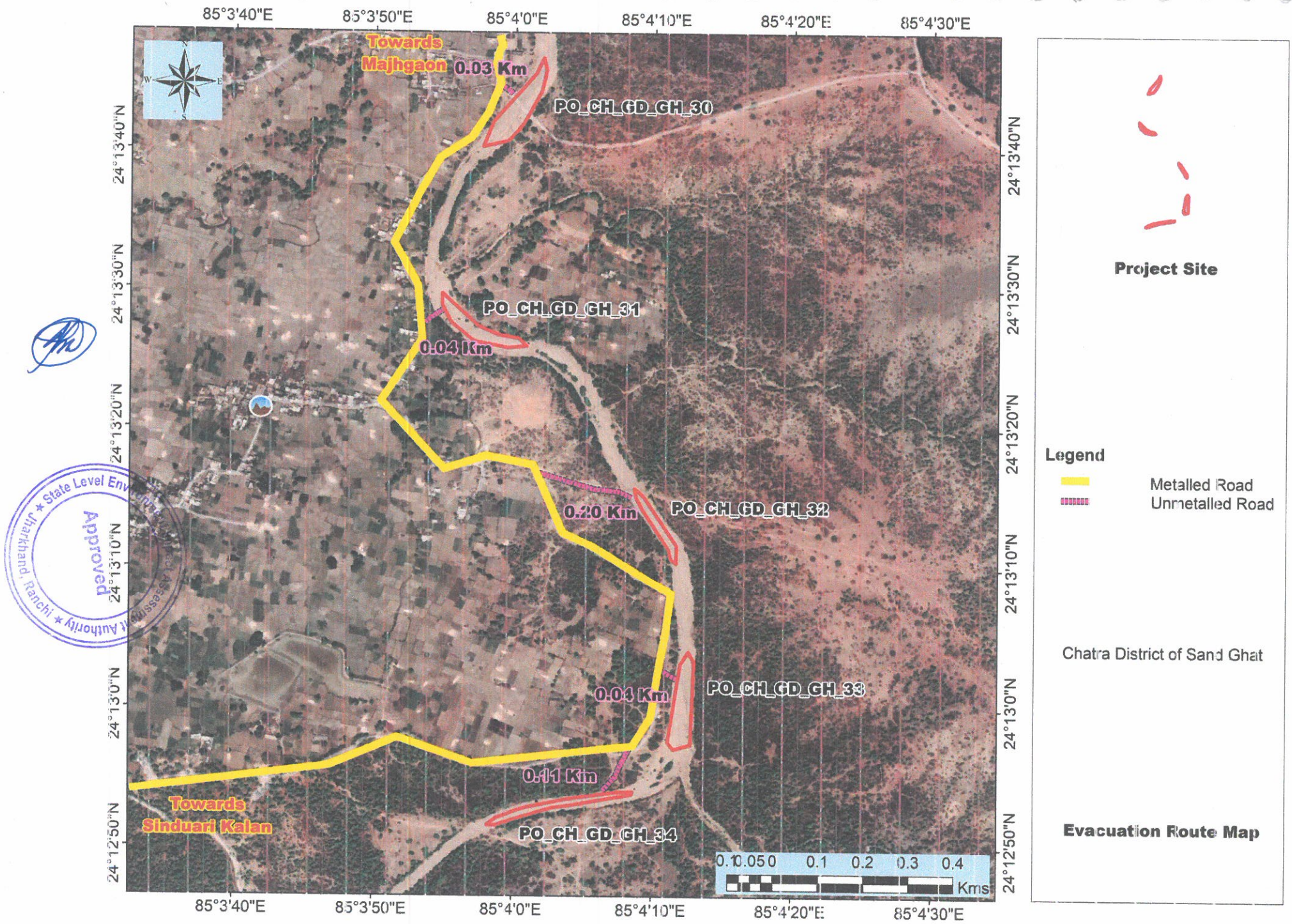
24°14'0"N
Towards
Chouparan-Chatra Road
PO_CH_GD_GH_29
0.08 Km
Towards
Mayapur
0.08 0.04 0 0.08 0.16 0.24 0.32
Kms
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map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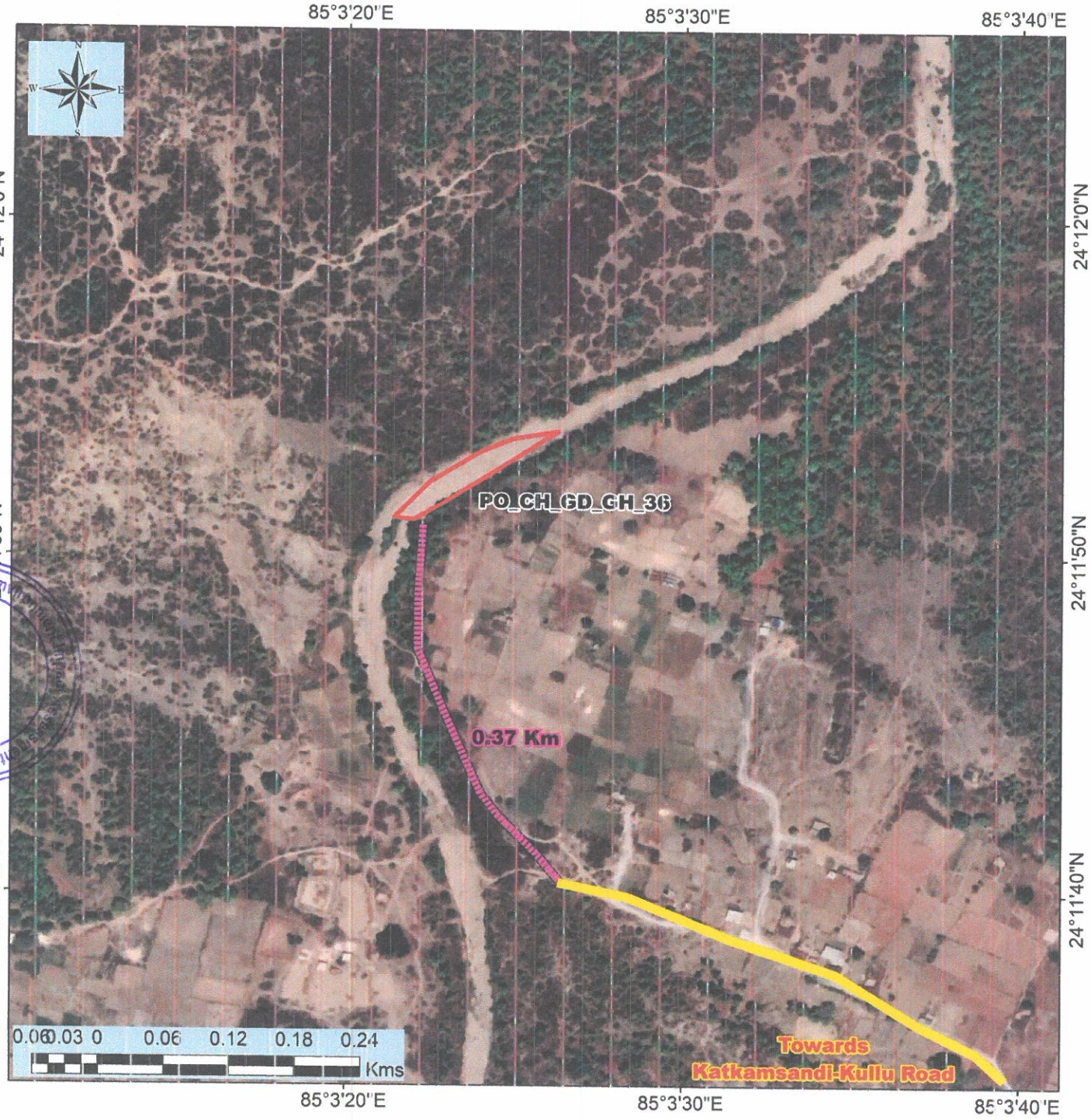
24°13'30"N
24°13'20"N
24°13'10"N
24°13'0"N
24°12'50"N
Towards Majhgaon
0.03 Km
PO_CH_GD_GH_30
PO_CH_GD_GH_31
0.04 Km
0.20 Km
PO_CH_GD_GH_32
0.04 Km
PO_CH_GD_GH_33
0.11 Km
Towards Sinduari Kalan
PO_CH_GD_GH_34
0.1 0.05 0 0.1 0.2 0.3 0.4
Kms
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map



Approved

Project Site

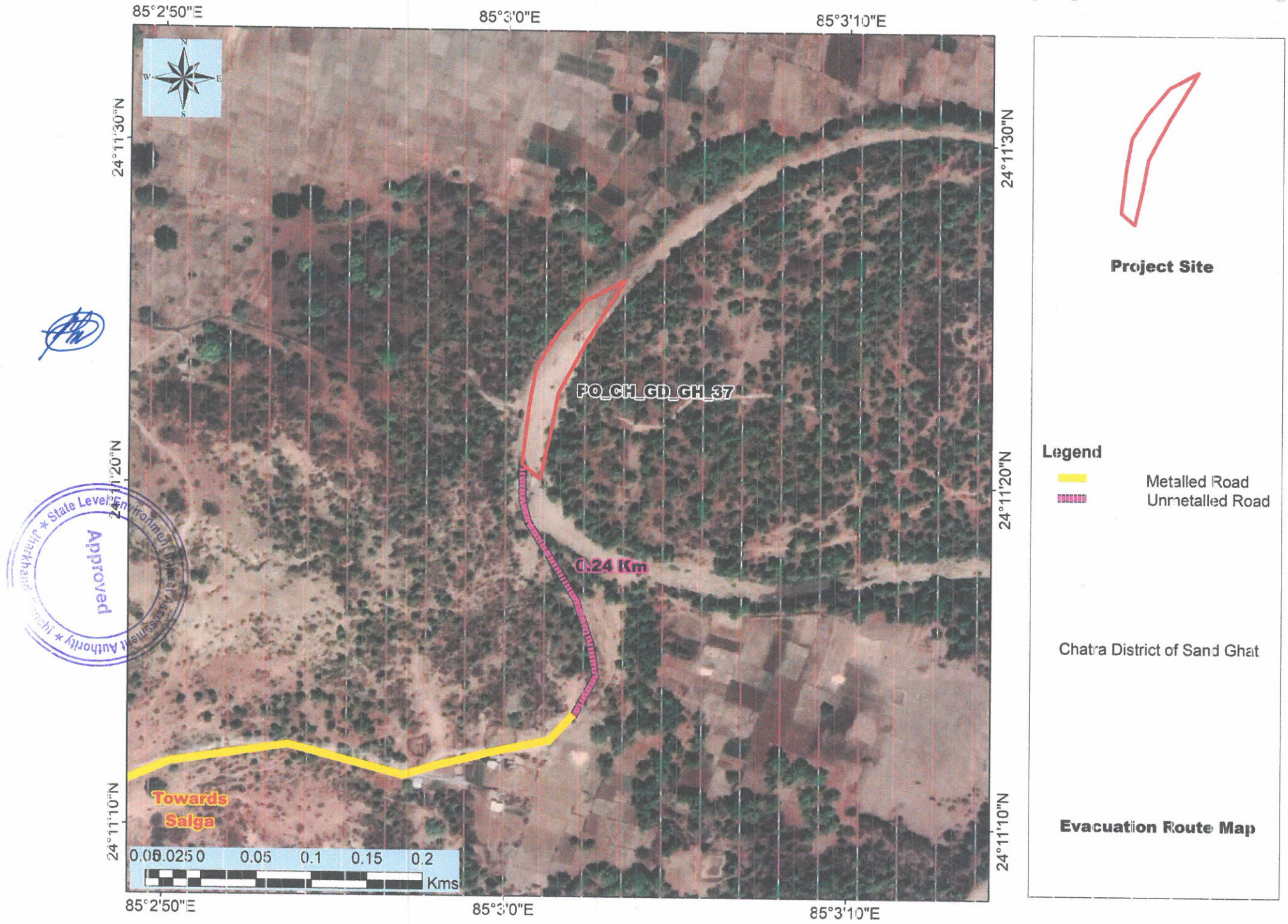
Legend

Metalled Road

Unmetalled Road

Chatra District of Sand Ghat

Evacuation Route Map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85°3'0"E
85°3'10"E
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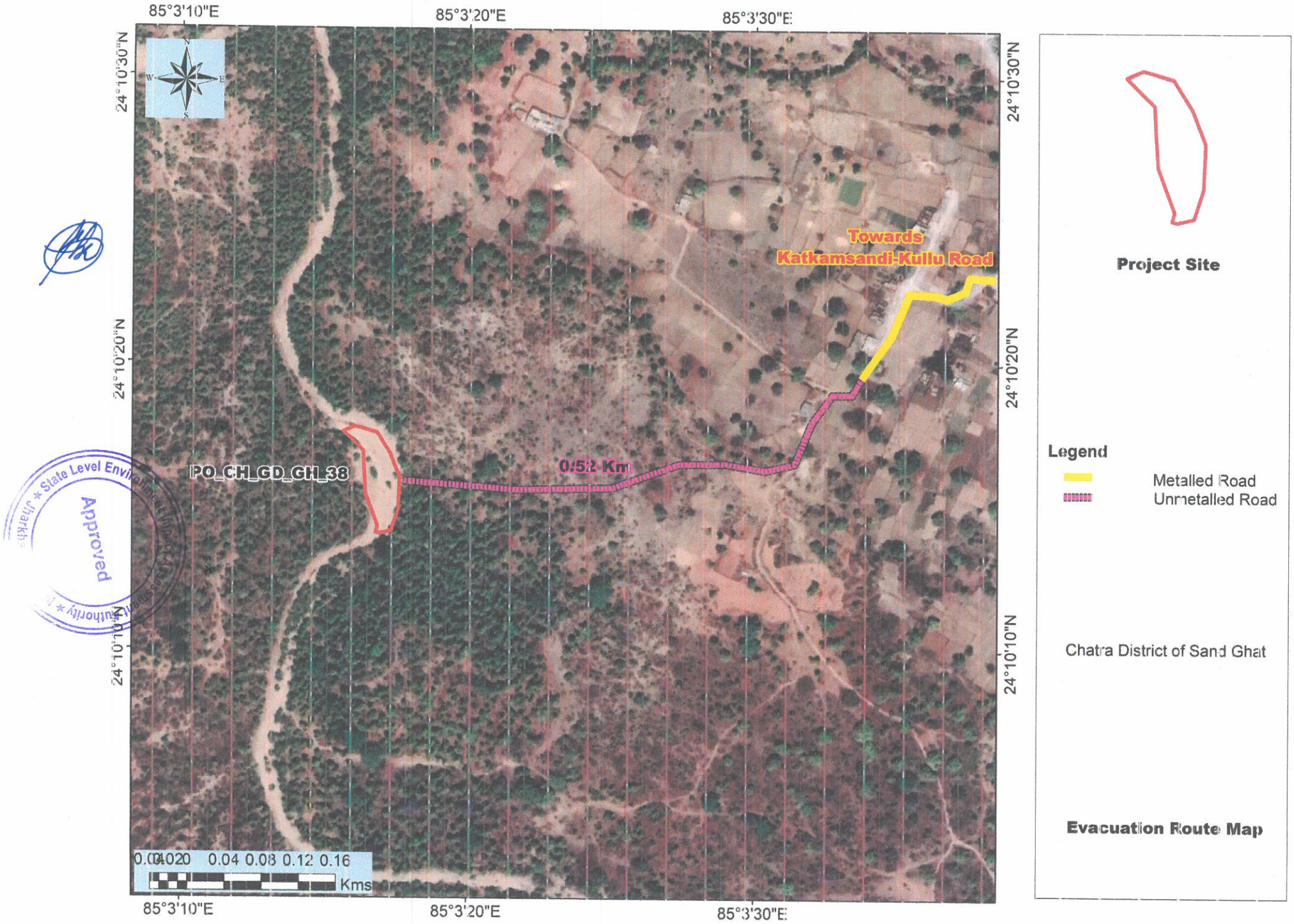
24°11'20"N
24°11'10"N
N
W
E
S
PO_CH_GD_GH_37
0.24 Km
Towards
Salga
0.05 0.025 0 0.05 0.1 0.15 0.2
Kms
Approved
State Level Environment Impact Assessment Authority
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map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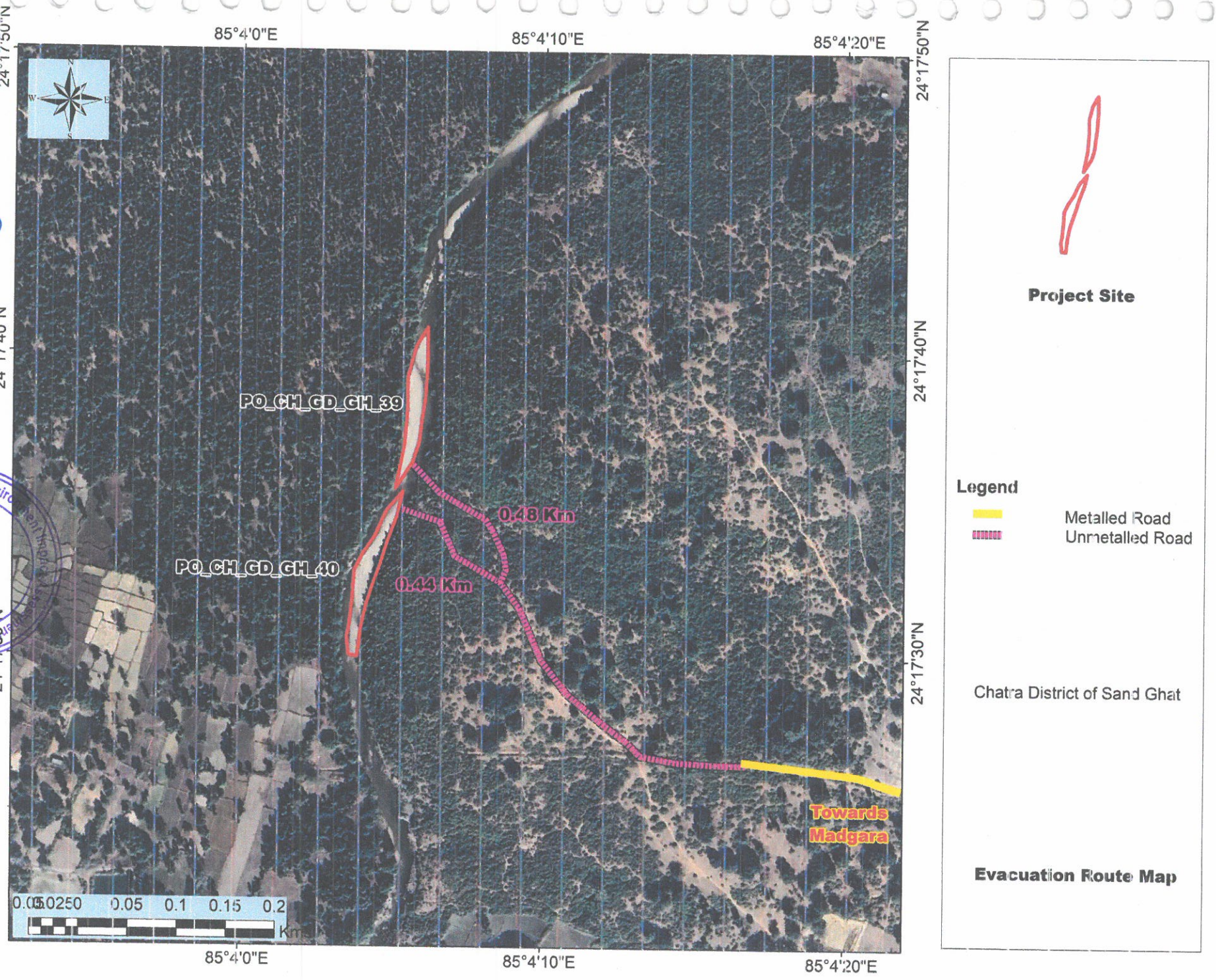
24°10'30"N
24°10'20"N
24°10'10"N
Towards
Katkamsandi-Kullu Road
PO_CH_GD_GH_38
0.52 Km
0.00 0.02 0.04 0.08 0.12 0.16
Kms
Approved
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map



Project Site

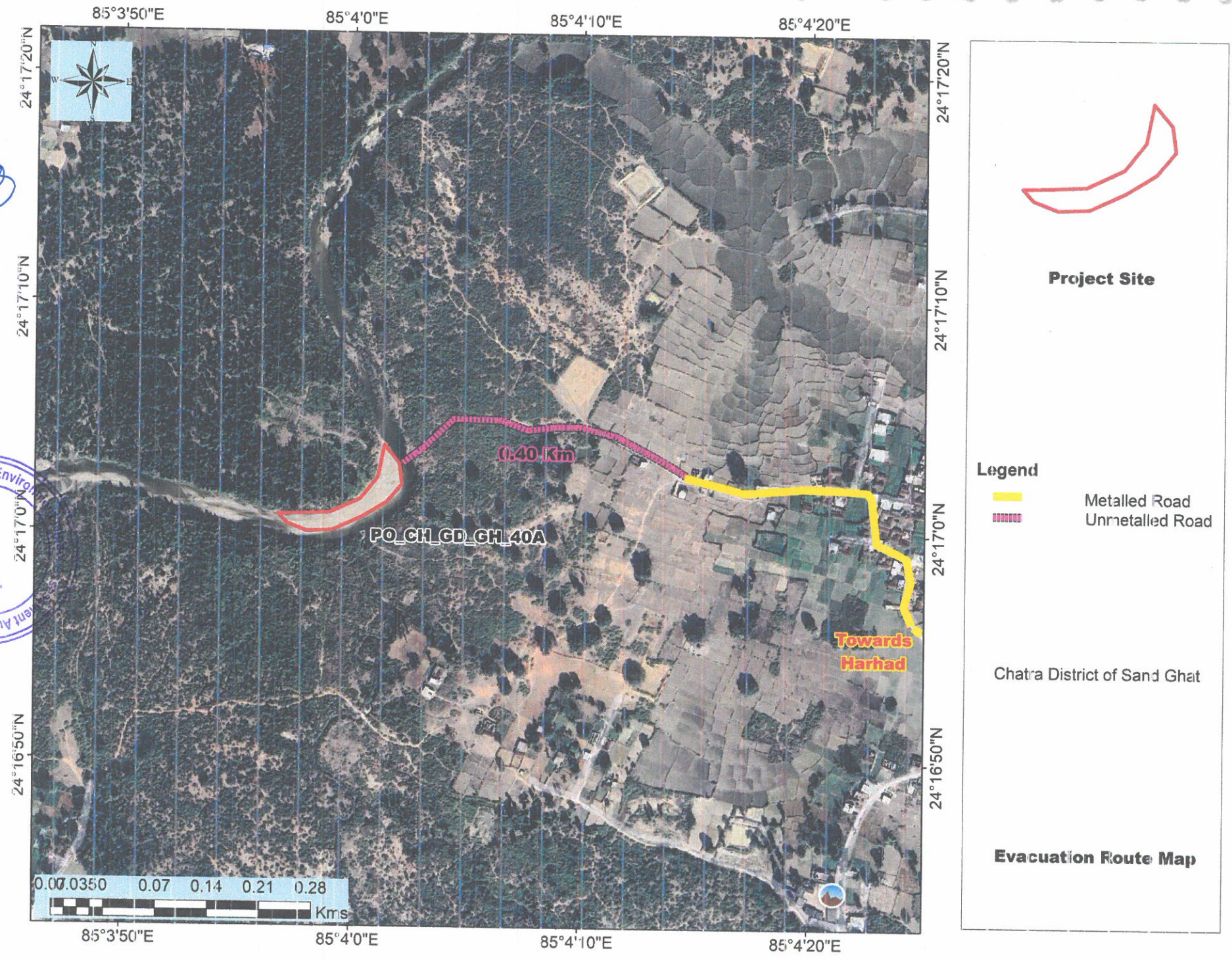
Legend

Metalled Road

Unmetalled Road

Chatra District of Sand Ghat

Evacuation Route Map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85°4'0"E
85°4'10"E
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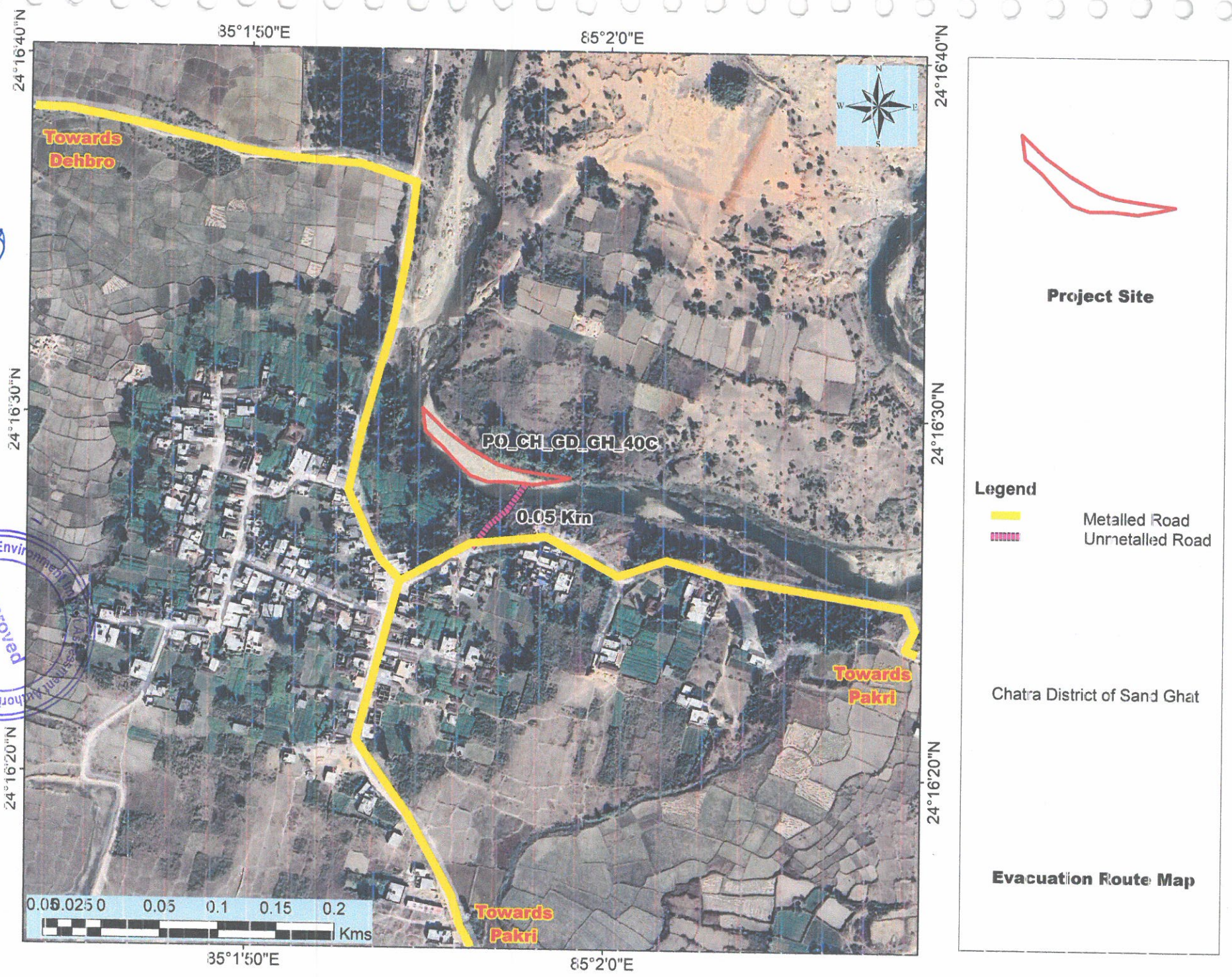
24°17'20"N
24°17'10"N
24°17'0"N
24°16'50"N
0.40 Km
PO_CH_GD_GH_40A
Towards Harhad
0.00 0.0350 0.07 0.14 0.21 0.28
Kms
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map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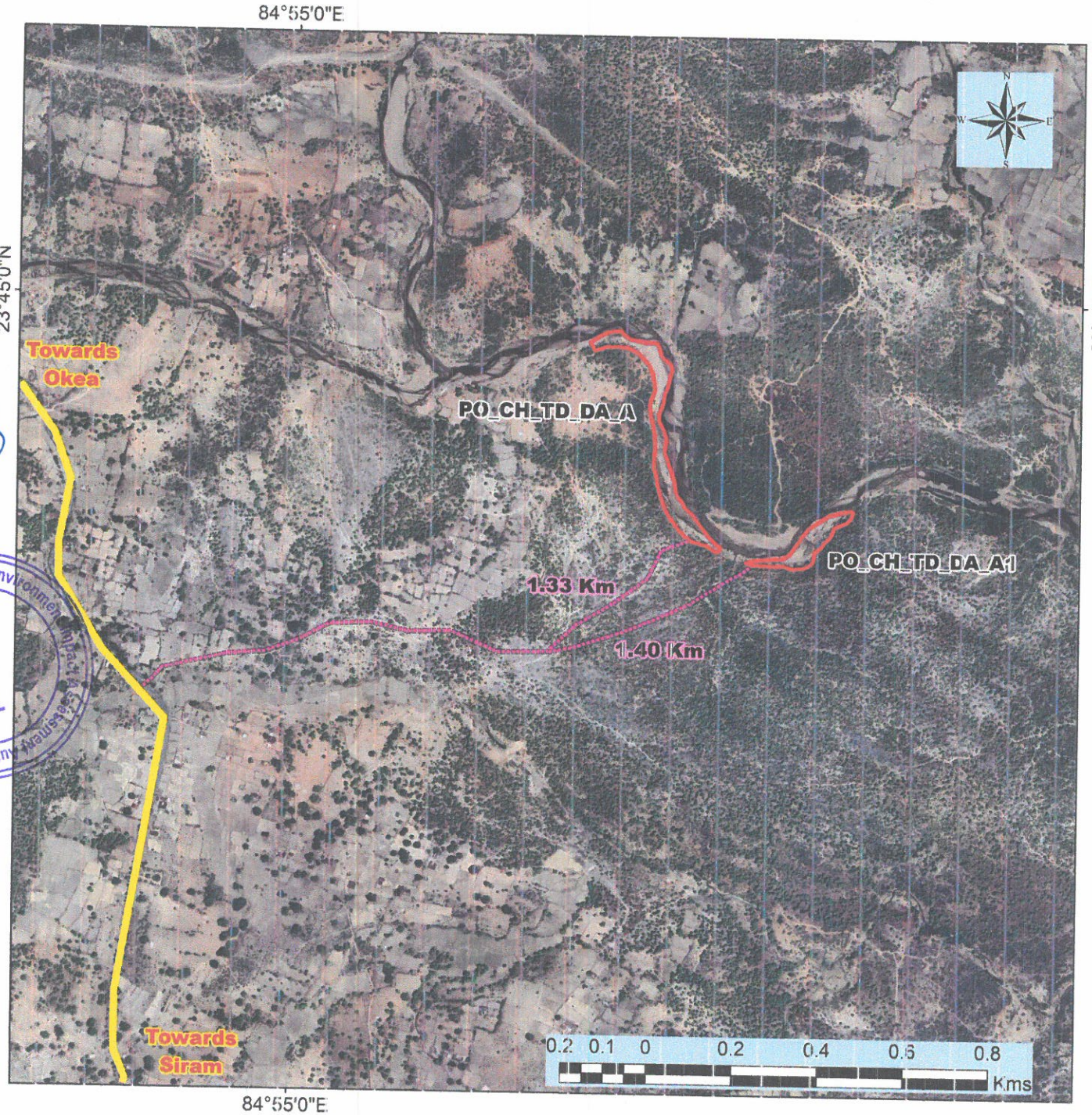
85°2'0"E
24°16'40"N
24°16'30"N
24°16'20"N
Towards Dehbro
PO_CH_GD_GH_40C
0.05 Krn
Towards Pakri
Towards Pakri
0.05 0.025 0 0.05 0.1 0.15 0.2
Kms
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map



Project Site

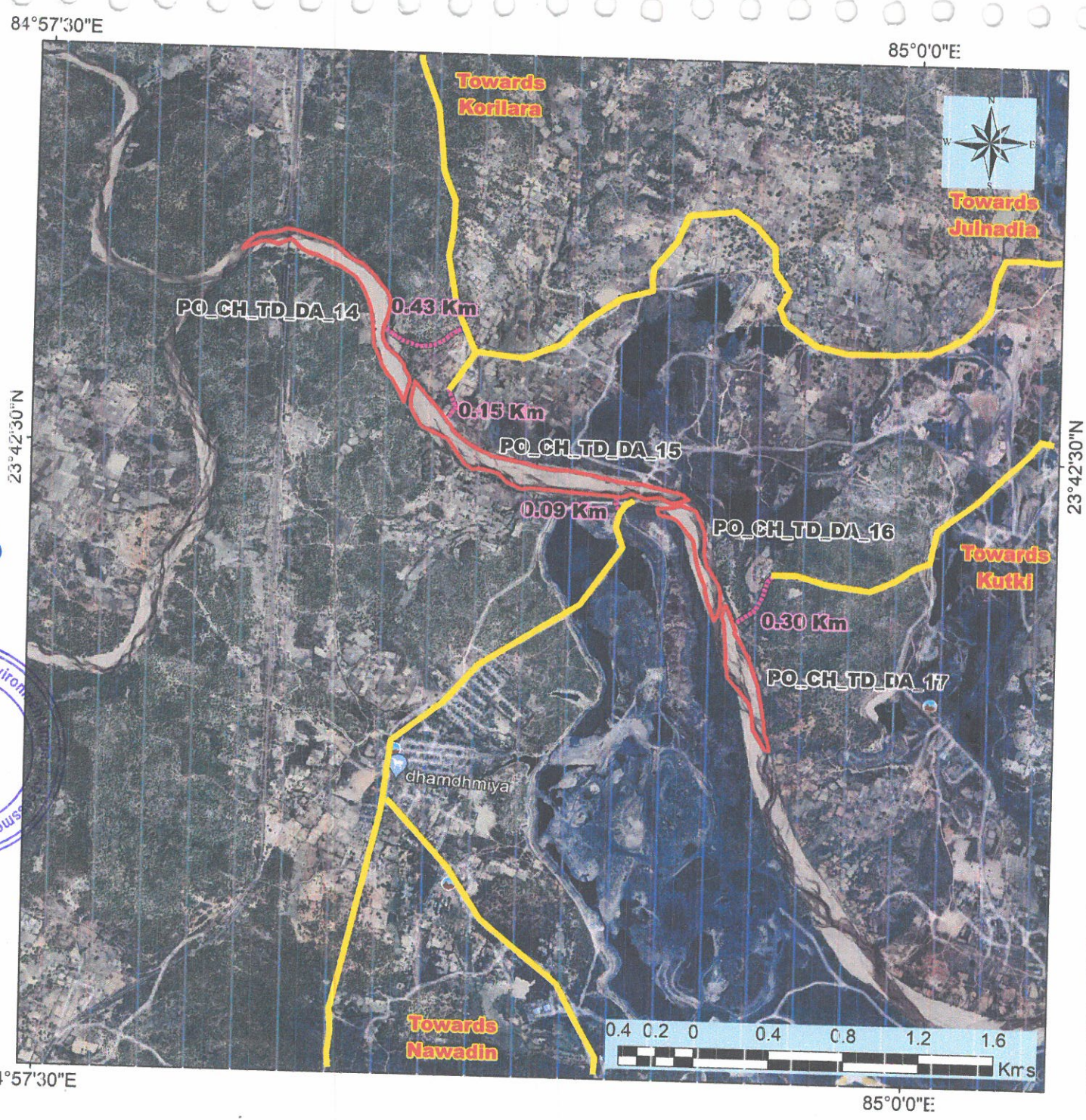
Legend

Metalled Road

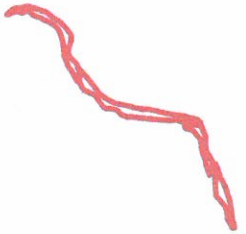
Unmetalled Road

Chatra District of Sand Ghat

Evacuation Route Map



State Level Environment Assessment Authority * Jharkhand, Ranchi *
Approved



Project Site

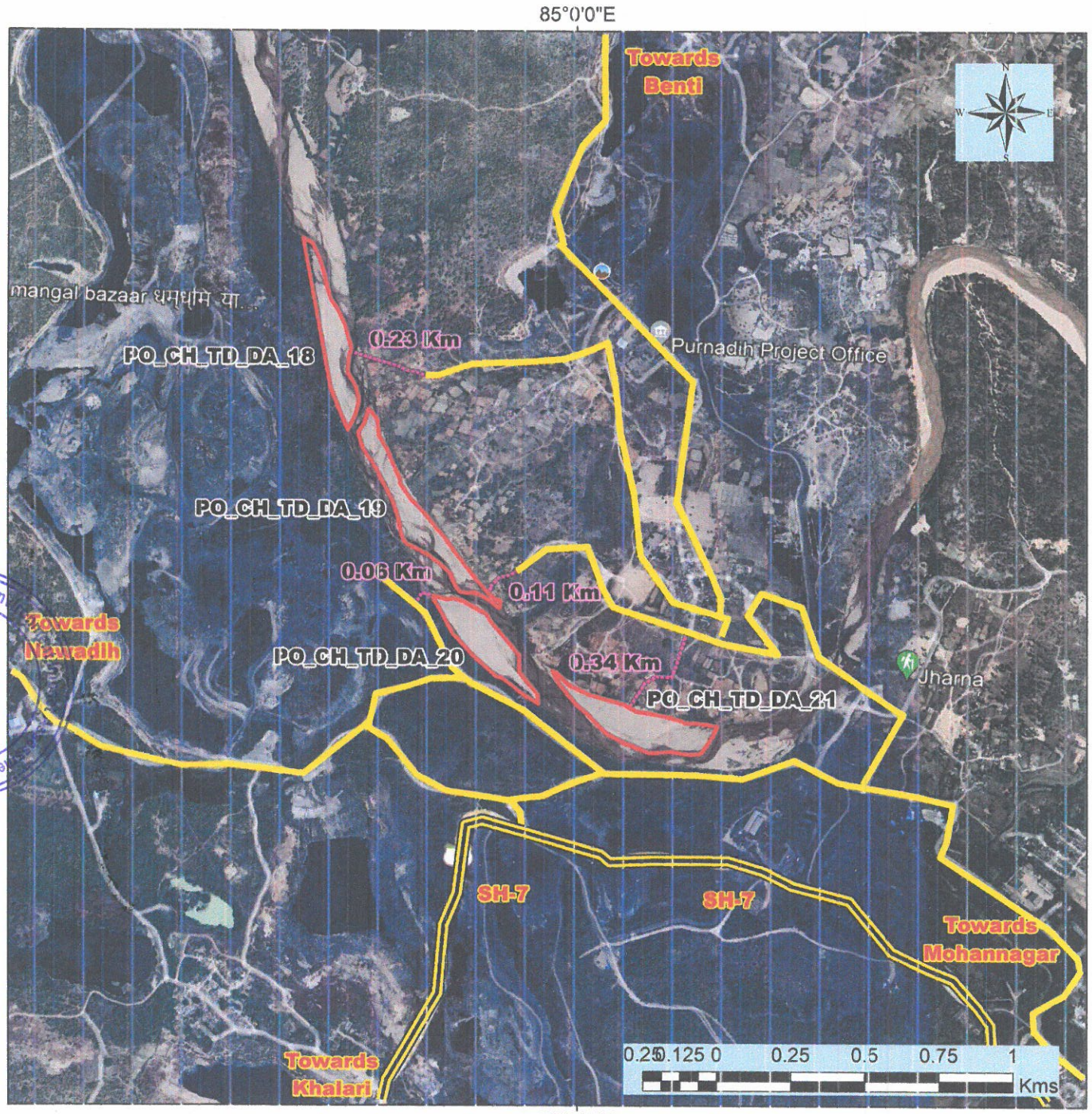
Legend

Metalled Road

Unmetalled Road

Chatra District of Sand Ghat

Evacuation Route Map



Project Site

Legend

SH-7

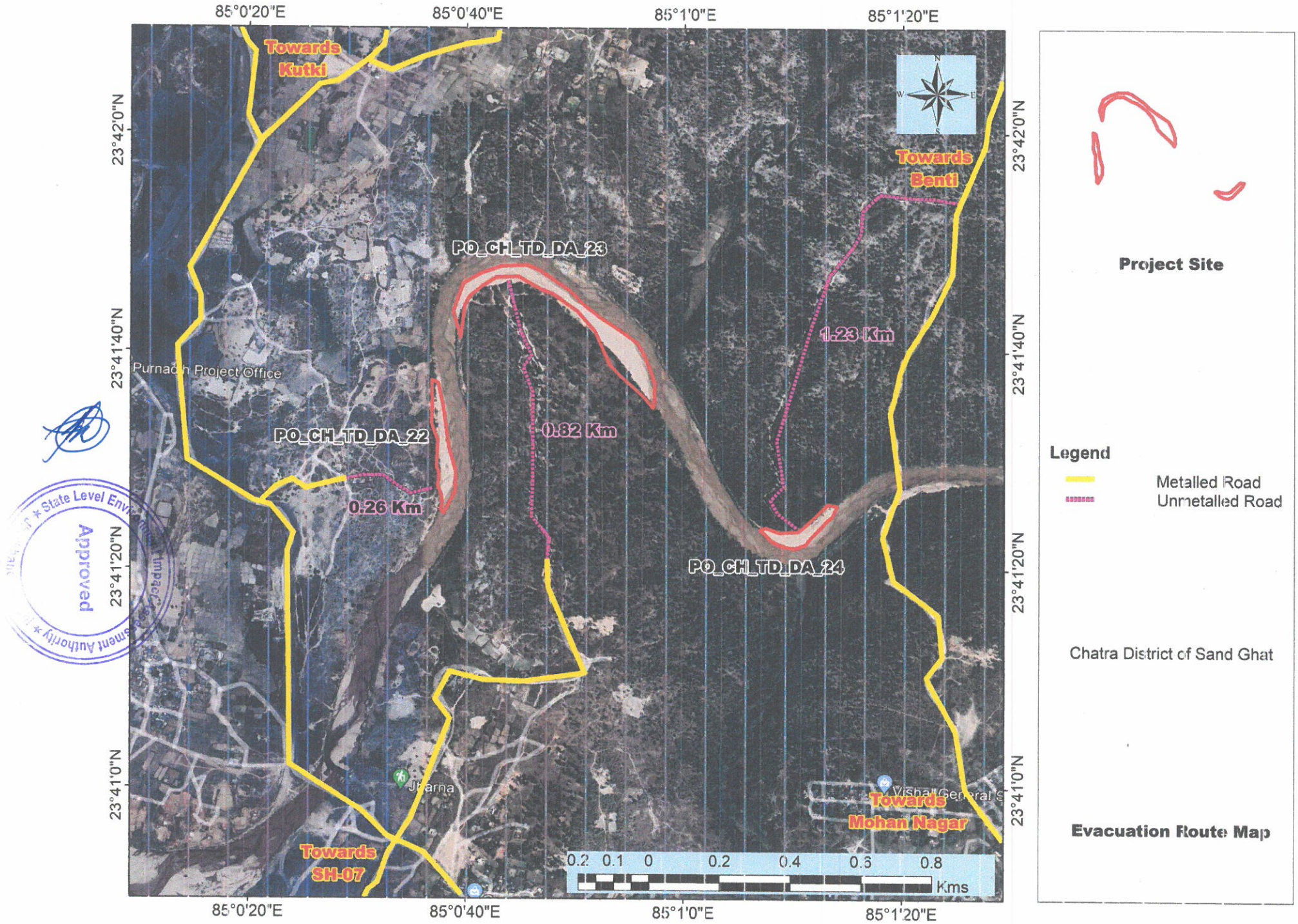
Metalled Road

Unmetalled Road

Chatra District of Sand Ghat

Evacuation Route Map

Approved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85°1'0"E
85°1'20"E
23°42'0"N
23°41'40"N
23°41'20"N
23°41'0"N
Towards Kutki
Towards Benti
PO_CH_TD_DA_23
PO_CH_TD_DA_22
PO_CH_TD_DA_24
1.23 Km
0.82 Km
0.26 Km
Purnadih Project Office
Towards SH-07
Towards Mohan Nagar
0.2 0.1 0 0.2 0.4 0.6 0.8
Kms
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map





Project Site

Legend

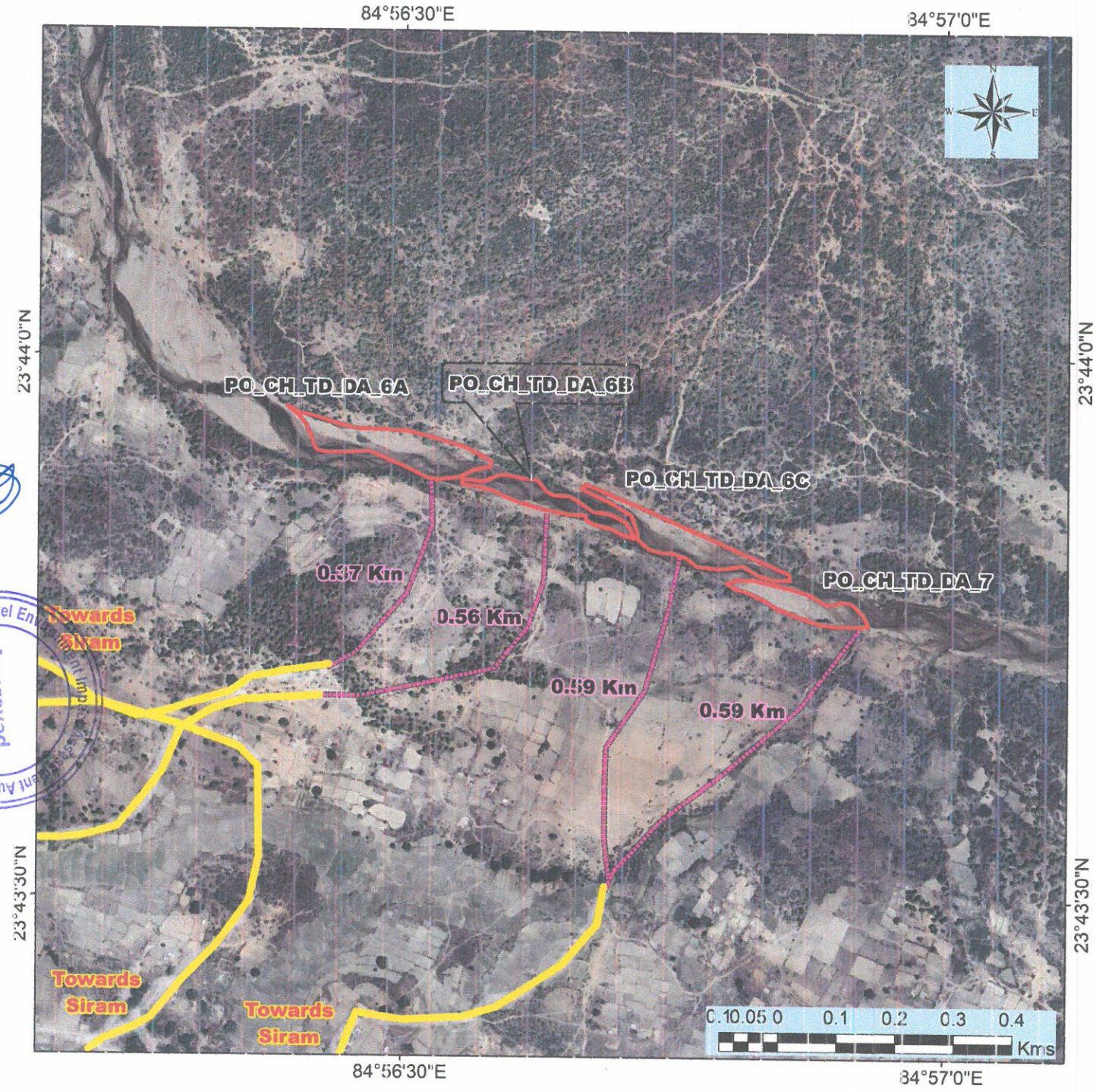
Metalled Road

Unmetalled Road

Chatra District of Sand Ghat

Evacuation Route Map

State Level Environment Impact Assessment Authority
Approved



Project Site

Legend

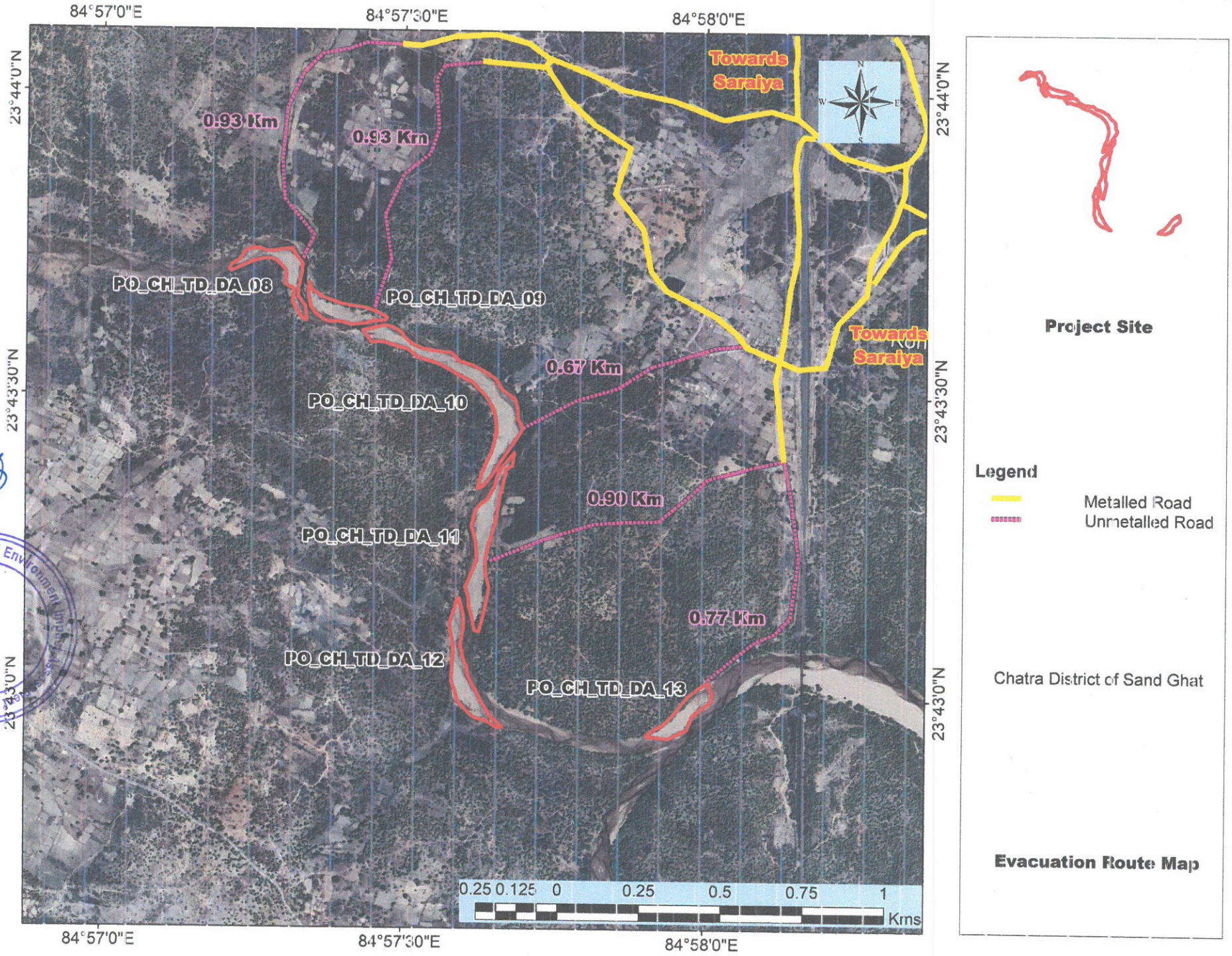
Metalled Road

Unmetalled Road

Chatra District of Sand Ghat

Evacuation Route Map

Approved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84°58'0"E
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23°43'0"N
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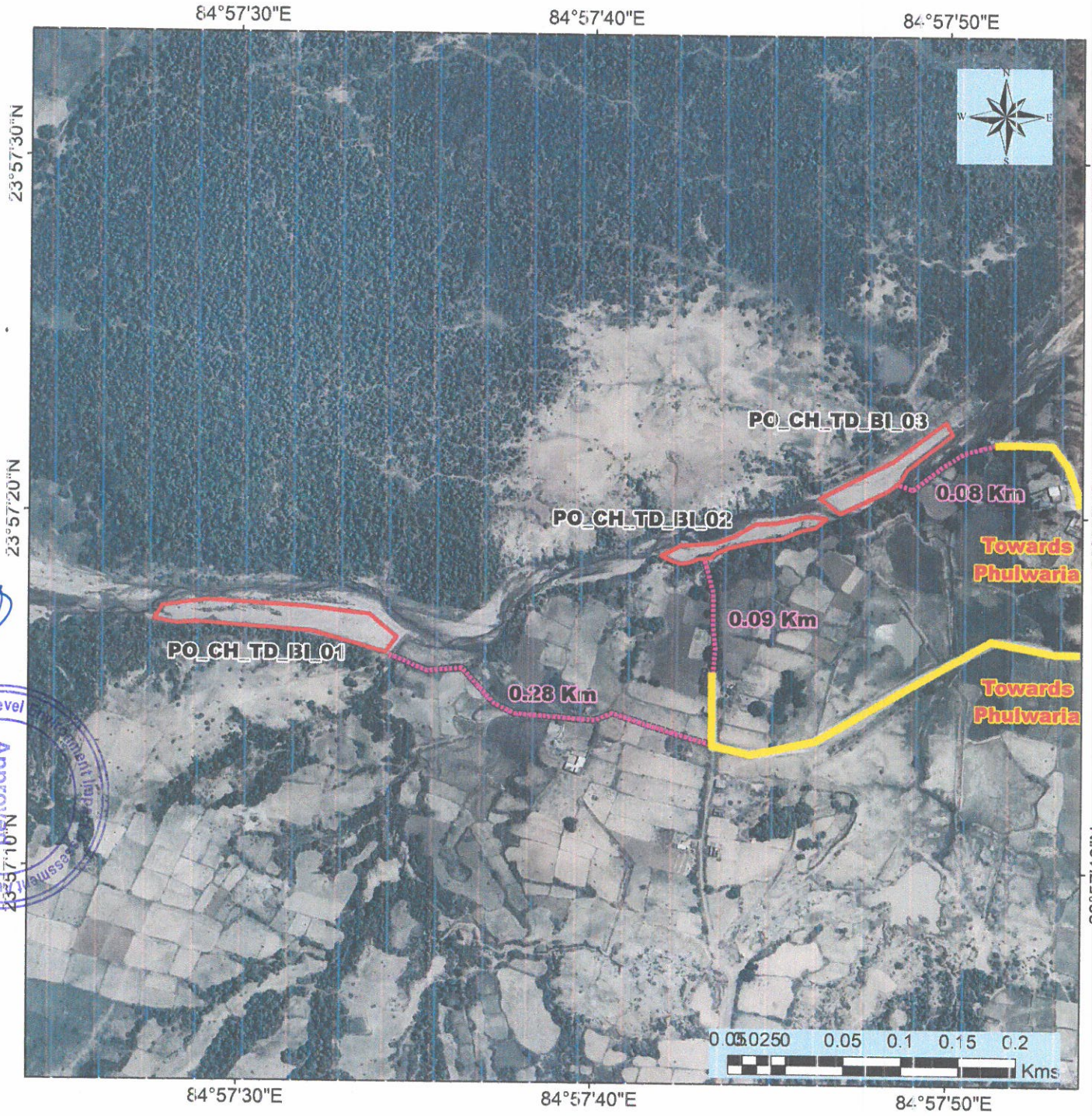
0.93 Km
0.93 Krn
PO_CH_TD_DA_08
PO_CH_TD_DA_09
0.67 Km
PO_CH_TD_DA_10
0.90 Km
PO_CH_TD_DA_11
0.77 Km
PO_CH_TD_DA_12
PO_CH_TD_DA_13
Towards Saraiya
N
W
E
S
0.25 0.125 0 0.25 0.5 0.75 1
Kms
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi



Project Site

Legend

Metalled Road

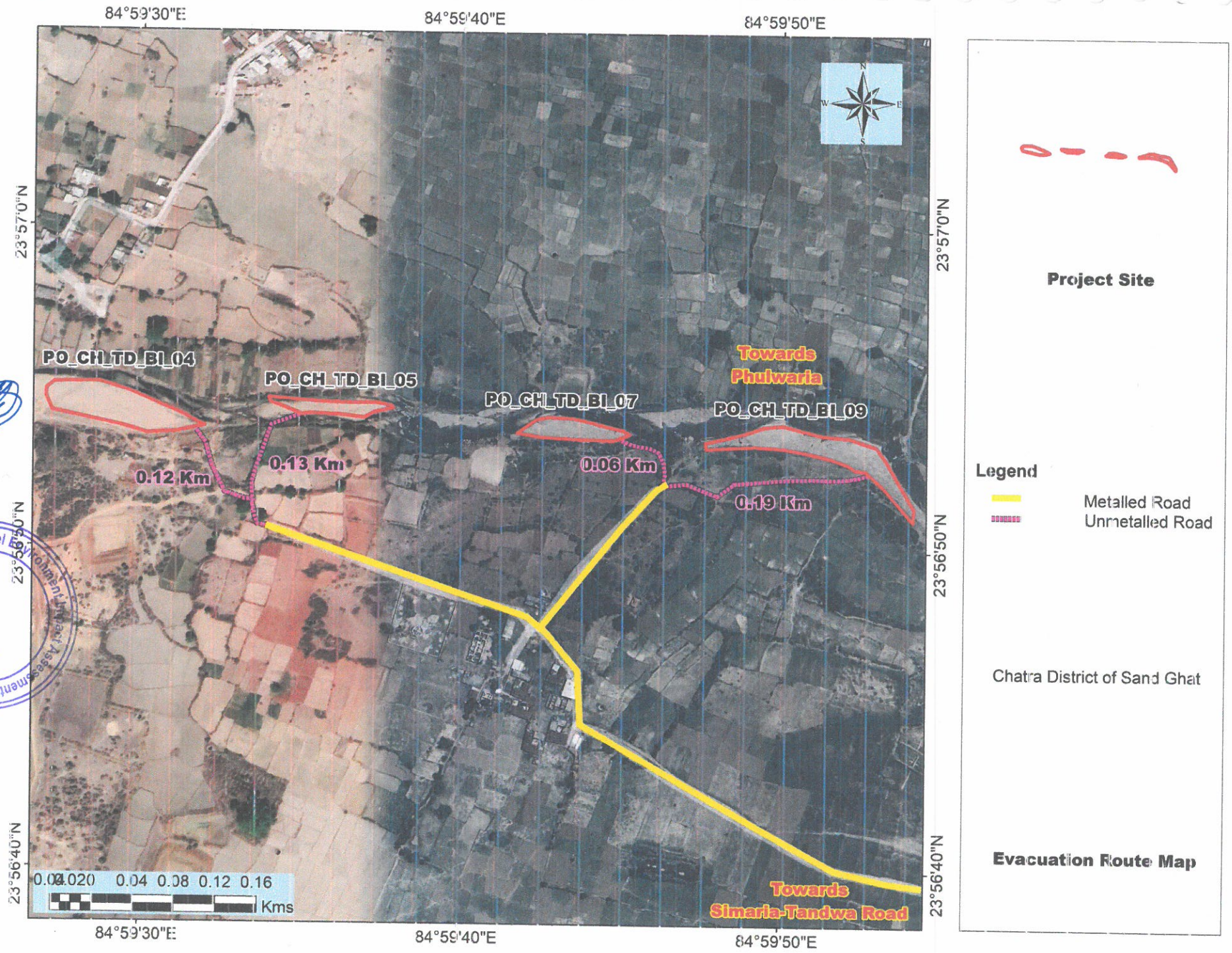
Unmetalled Road

Chatra District of Sand Ghat

Evacuation Route Map

Approved

State Level Environment Impact Assessment Authority * Jharkhand, Ranchi *



Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi



Project Site

Legend

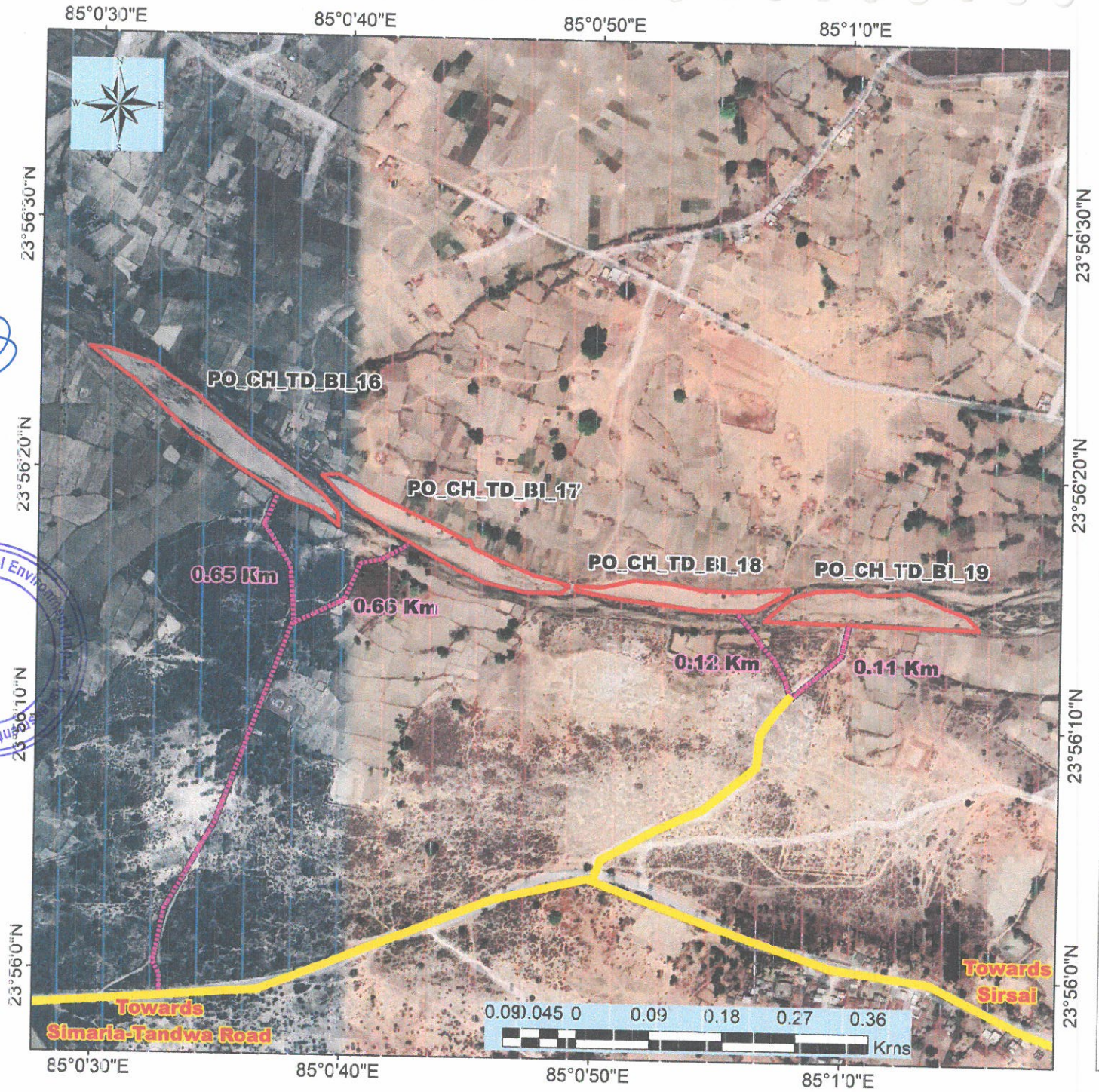
Metalled Road

Unmetalled Road

Chatra District of Sand Ghat

Evacuation Route Map

Approved



Approved

Project Site

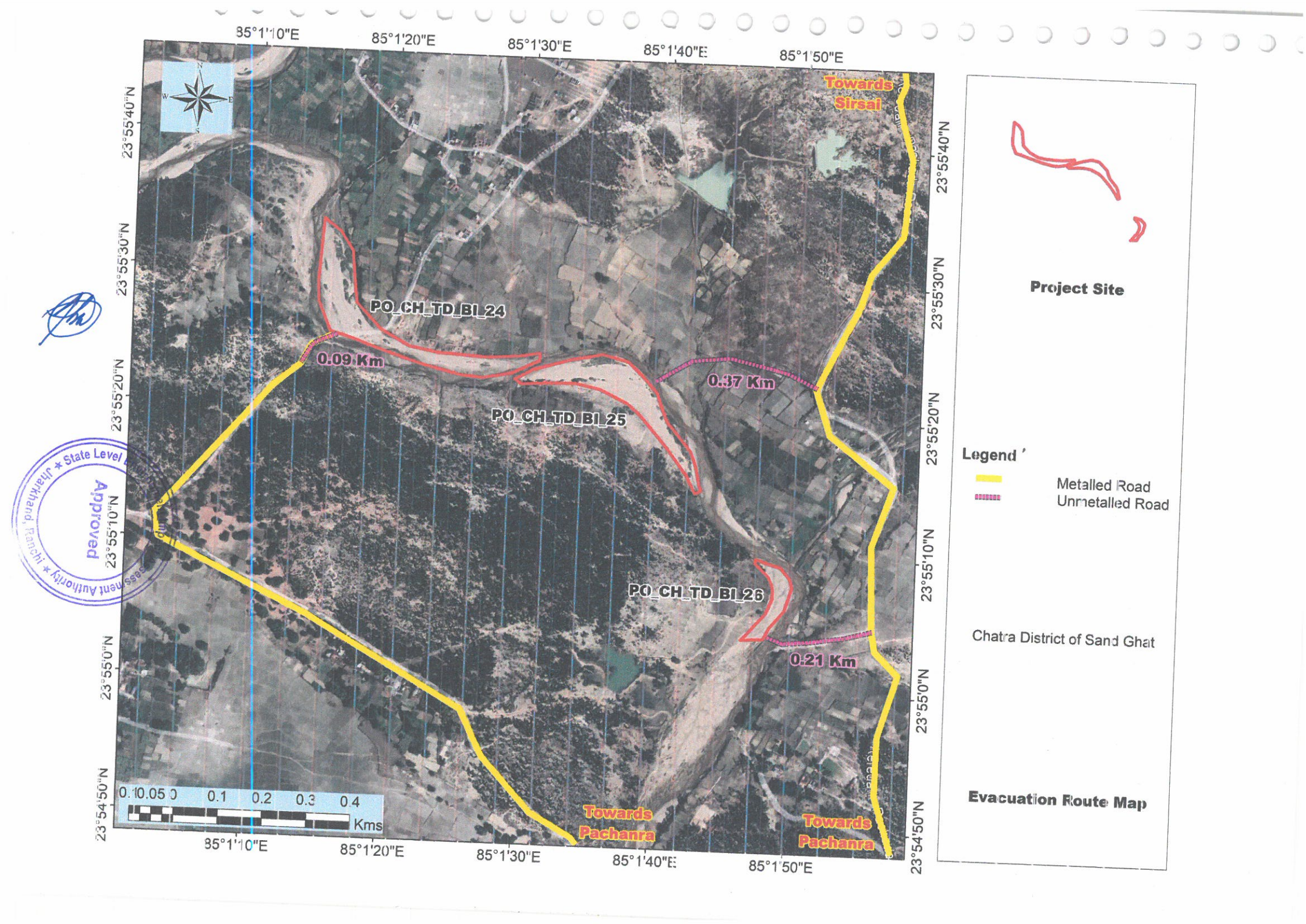
Legend

Metalled Road

Unmetalled Road

Chatra District of Sand Ghat

Evacuation Route Map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23°55'40"N
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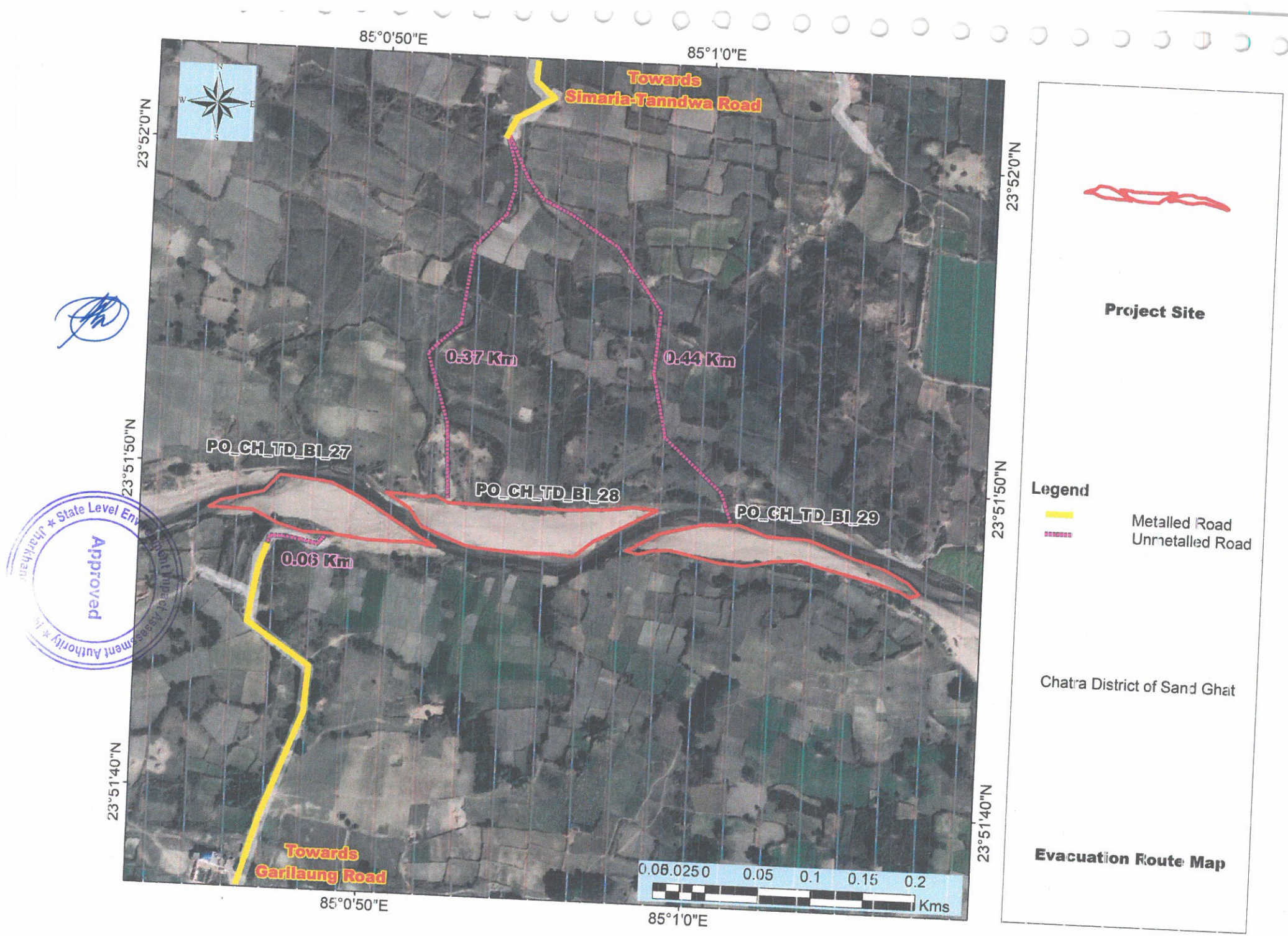
23°55'20"N
23°55'10"N
23°55'0"N
23°54'50"N
Towards Sirsai
PO_CH_TD_BI_24
0.09 Km
0.37 Km
PO_CH_TD_BI_25
PO_CH_TD_BI_26
0.21 Km
Towards Pachanra
Towards Pachanra
0.1 0.0 0.1 0.2 0.3 0.4
Kms
Project Site
Legend '
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map
Approved
State Level
Jharkhand, Ranchi
Assessment Authority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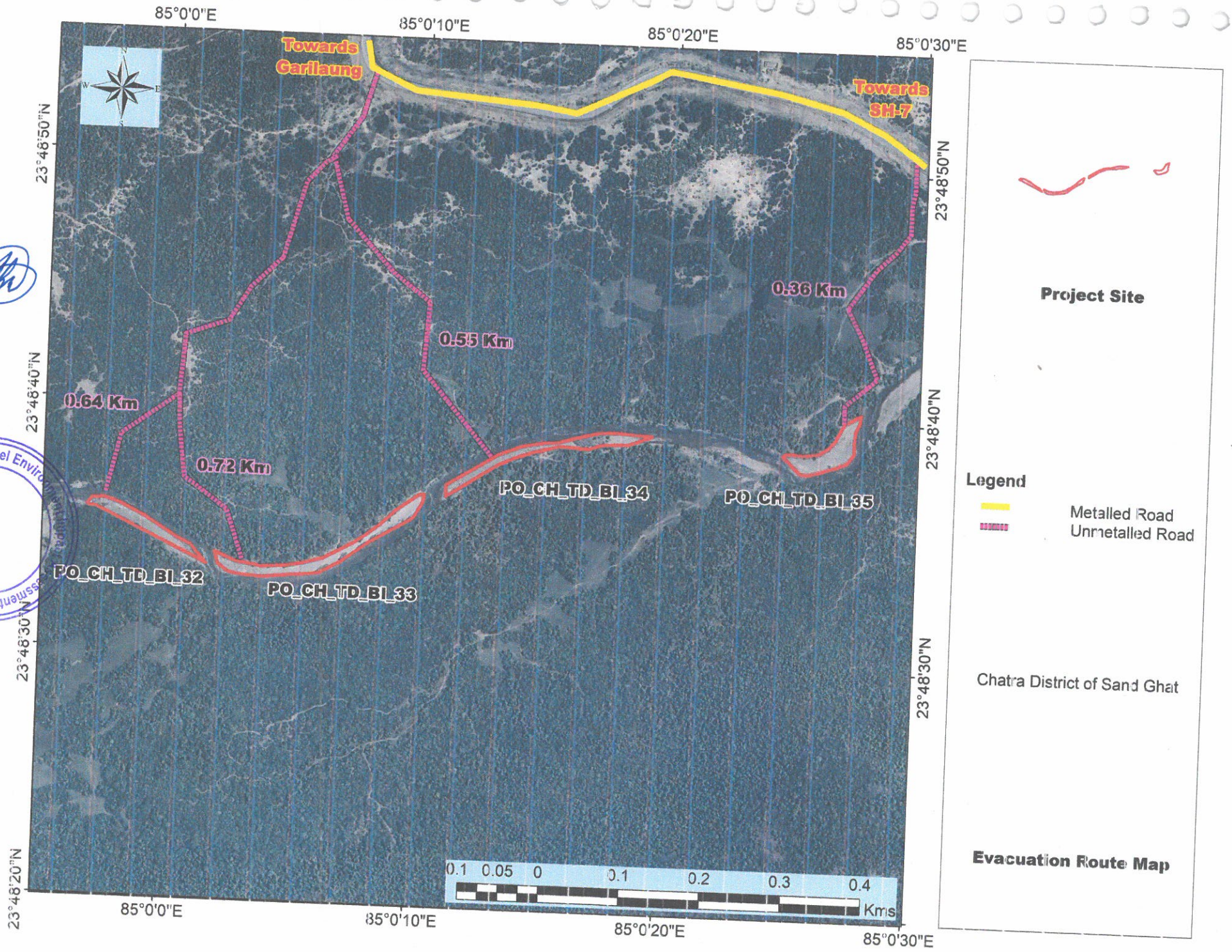
Towards
Simaria-Tanndwa Road
0.37 Km
0.44 Km
PO_CH_TD_BI_27
PO_CH_TD_BI_28
PO_CH_TD_BI_29
0.06 Km
Towards
Garilaung Road
0.00 0.025 0 0.05 0.1 0.15 0.2
Kms
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map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23°48'40"N
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23°48'20"N
Towards Garilaung
Towards SH-7
0.36 Km
0.55 Km
0.64 Km
0.72 Km
PO_CH_TD_BI_34
PO_CH_TD_BI_35
PO_CH_TD_BI_32
PO_CH_TD_BI_33
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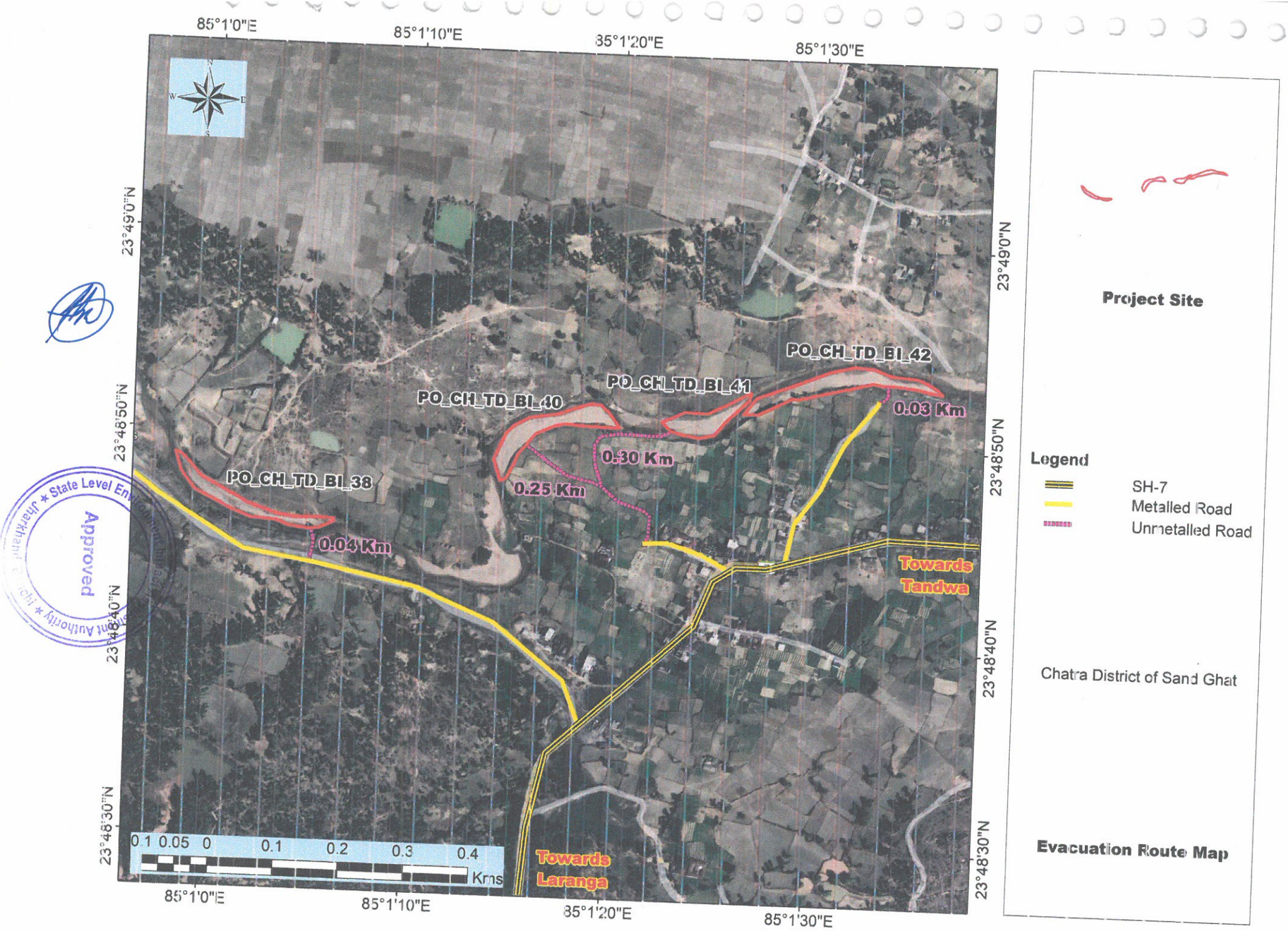
Kms
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map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23°49'0"N
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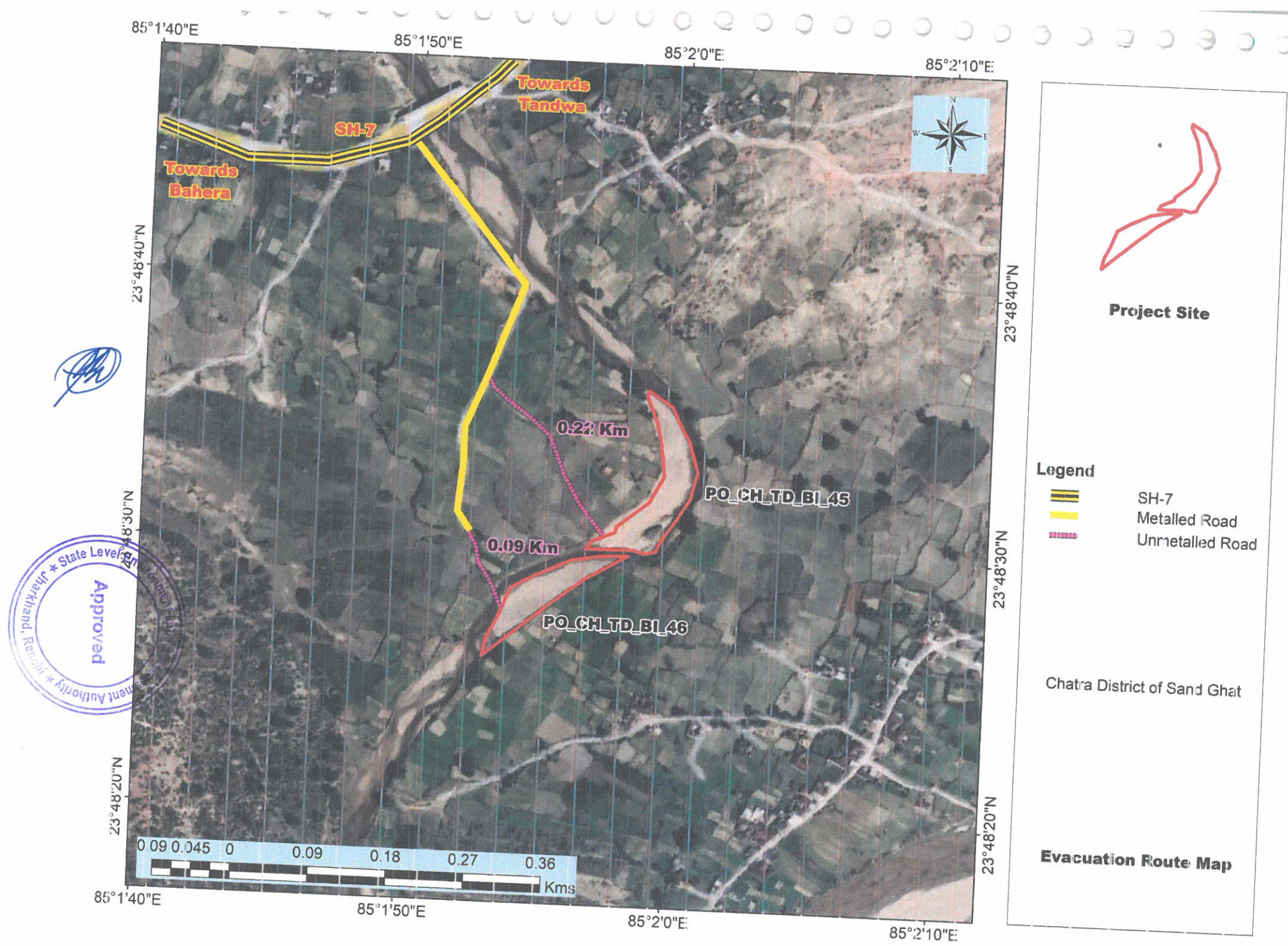
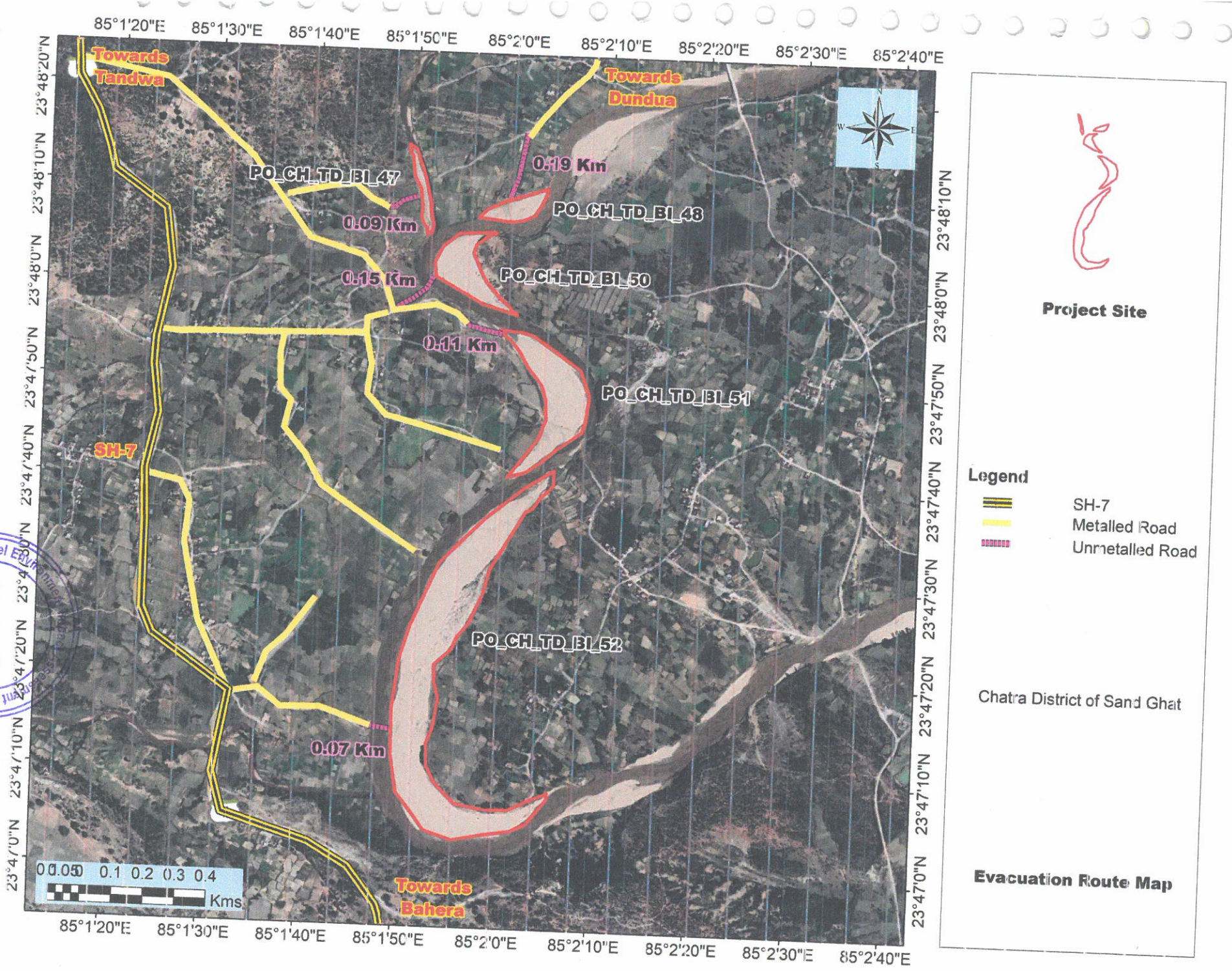
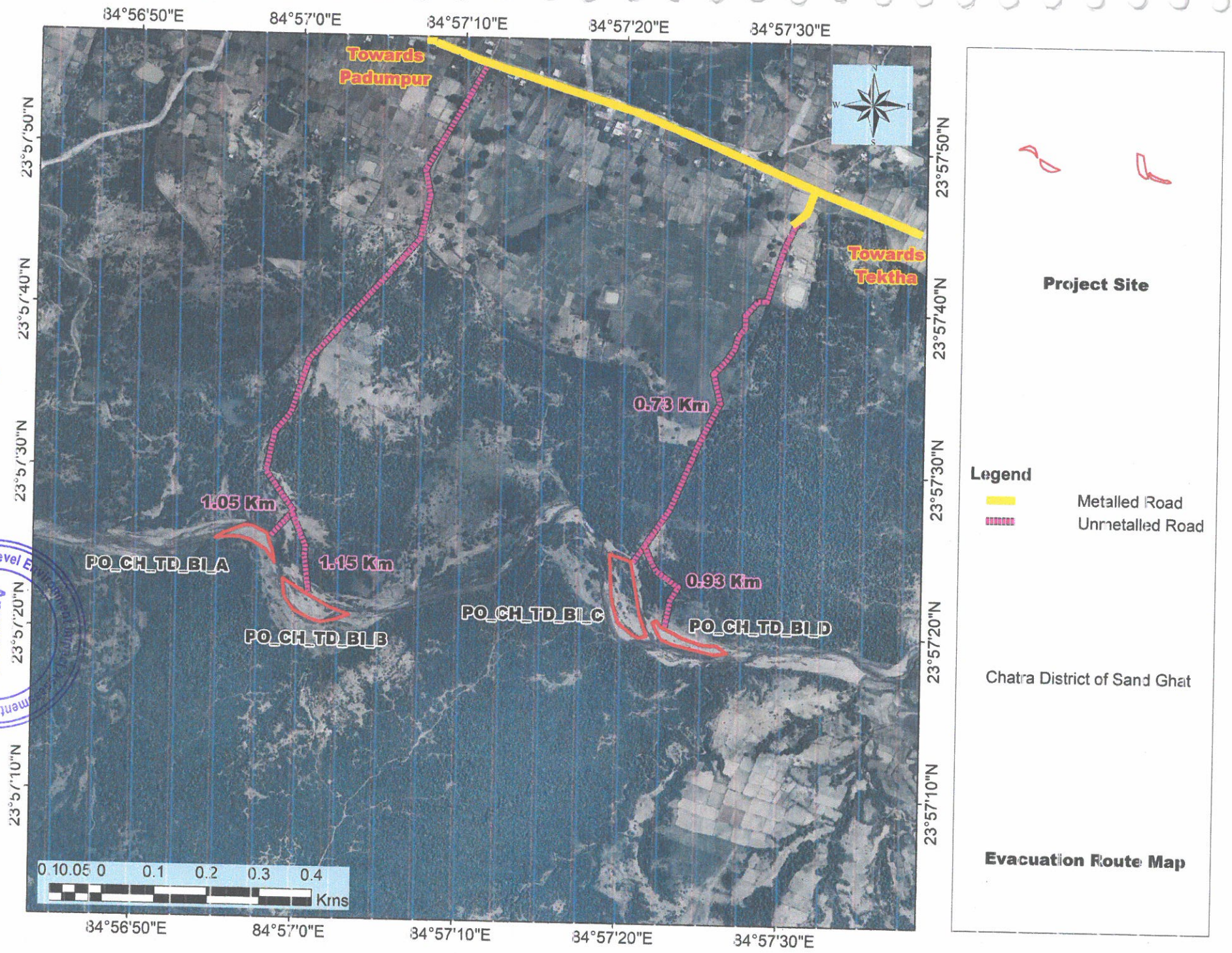
23°48'30"N
PO_CH_TD_BI_42
PO_CH_TD_BI_41
PO_CH_TD_BI_40
PO_CH_TD_BI_38
0.03 Km
0.30 Km
0.25 Km
0.04 Km
Towards Tandwa
Towards Laranga
0.1 0.05 0 0.1 0.2 0.3 0.4
Kms
Project Site
Legend
SH-7
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map
Approved



Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi



Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi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23°57'50"N
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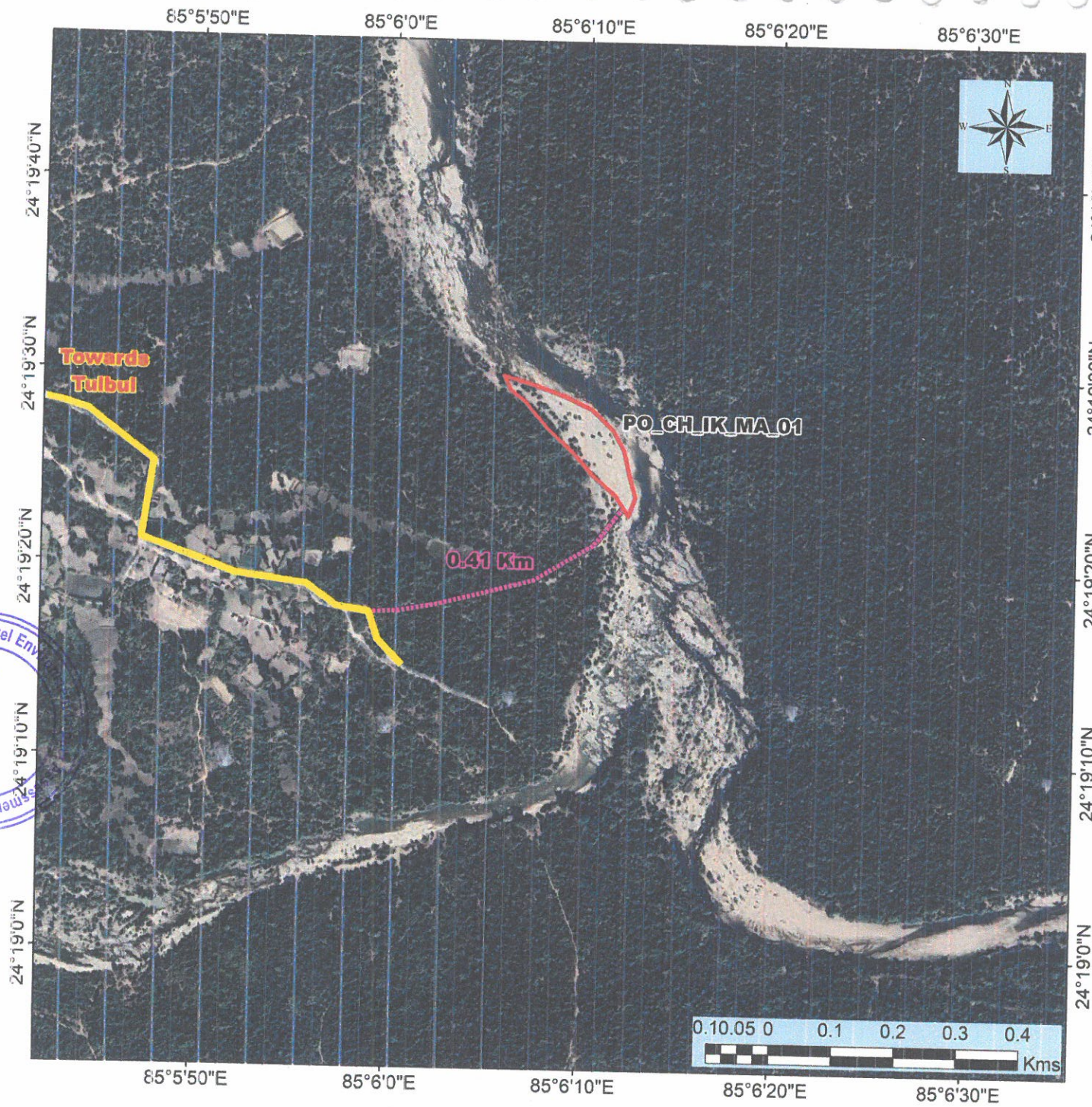
23°57'30"N
23°57'20"N
23°57'10"N
Towards Padumpur
Towards Tektha
0.73 Km
1.05 Km
1.15 Km
0.93 Km
PO_CH_TD_BI_A
PO_CH_TD_BI_B
PO_CH_TD_BI_C
PO_CH_TD_BI_D
0 0.05 0 0.1 0.2 0.3 0.4
Kms
N
S
E
W
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map
Approved
State Level



Project Site

Legend

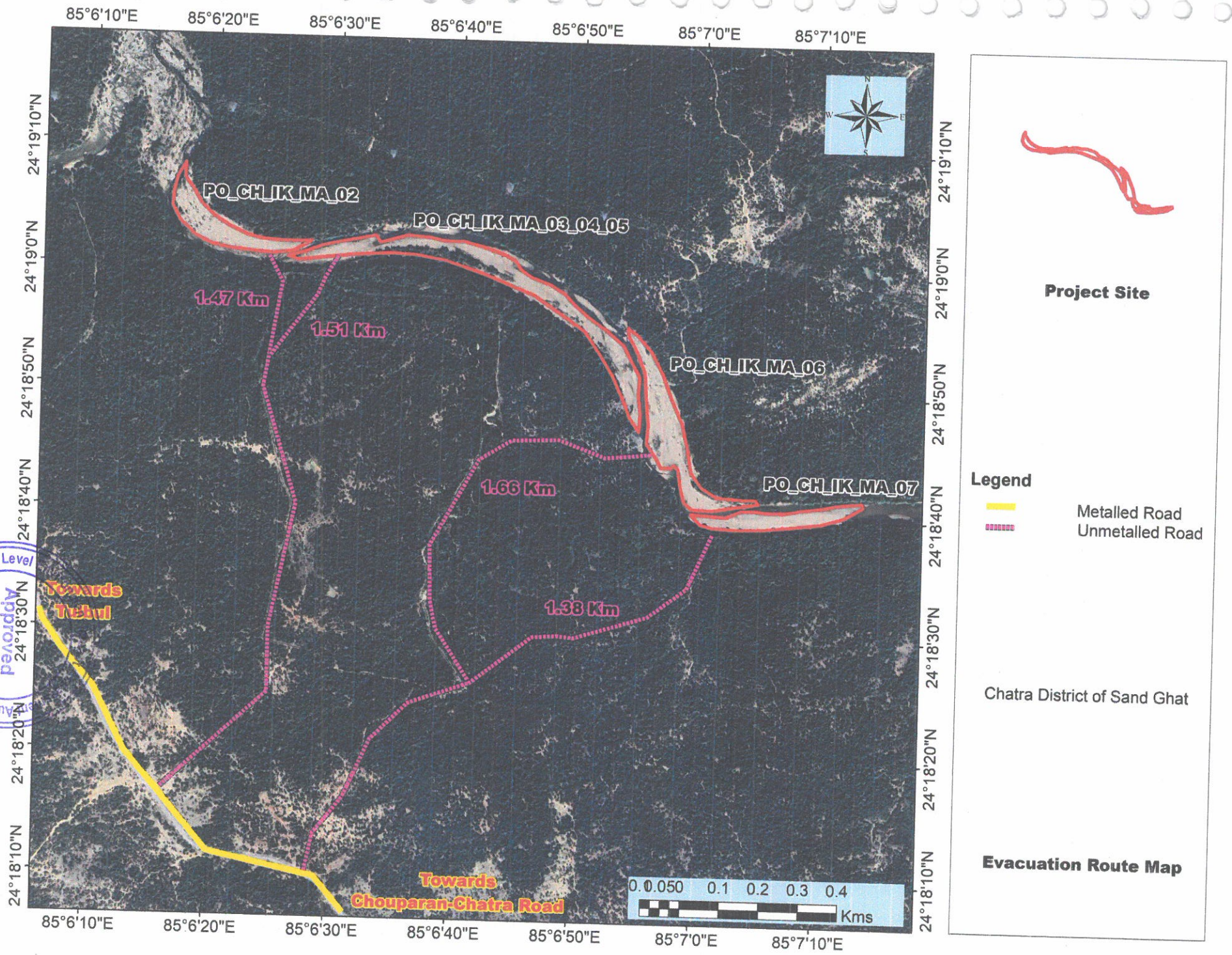
Metalled Road

Unmetalled Road

Chatra District of Sand Ghat

Evacuation Route Map

State Level Env... Assessment Authority ... Approved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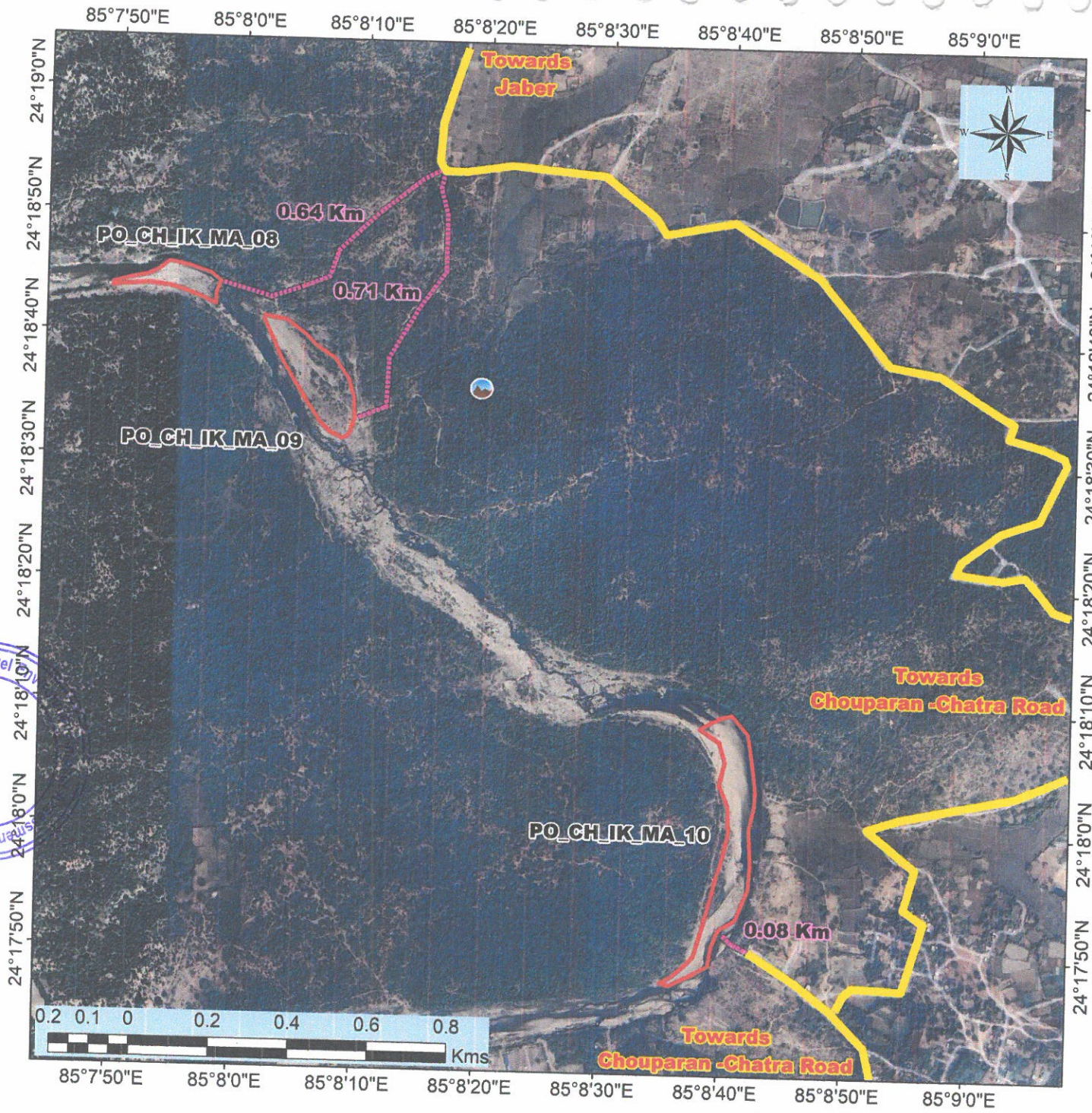
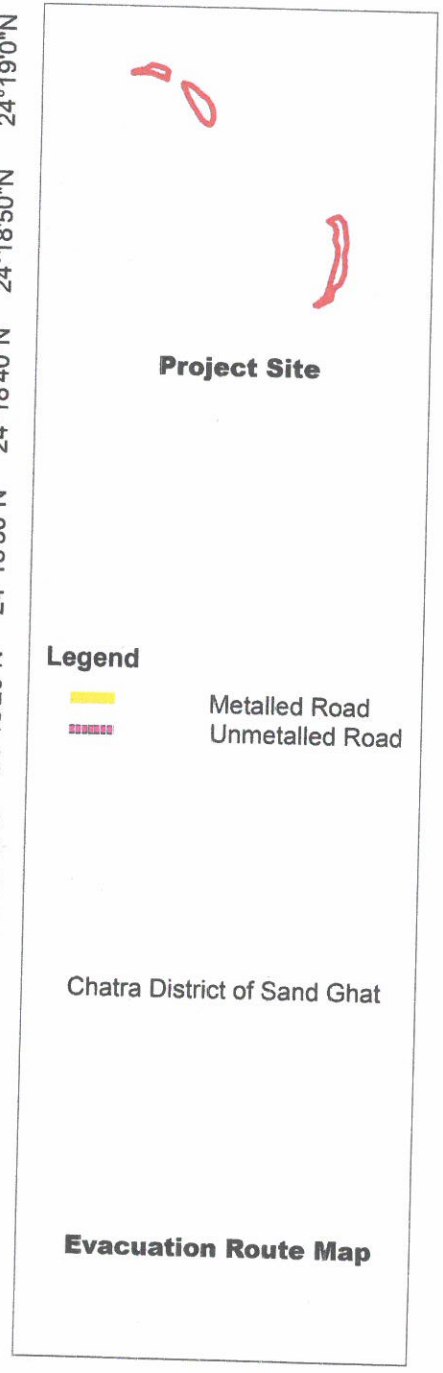
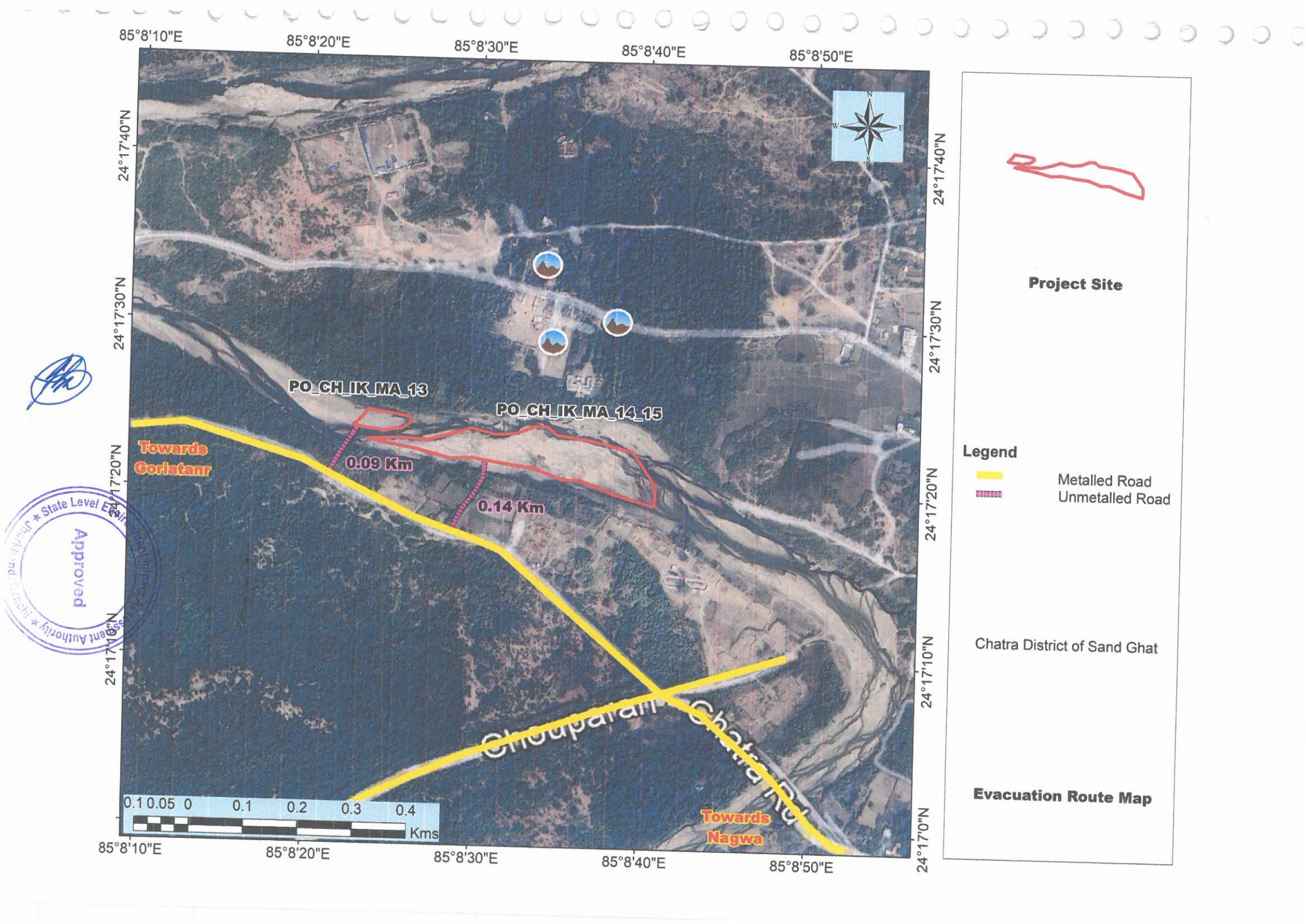
24°19'10"N
24°19'0"N
24°18'50"N
24°18'40"N
24°18'30"N
24°18'20"N
24°18'10"N
PO_CH_IK_MA_02
PO_CH_IK_MA_03_04_05
PO_CH_IK_MA_06
PO_CH_IK_MA_07
1.47 Km
1.51 Km
1.66 Km
1.38 Km
Towards Tebul
Towards Chouparan-Chatra Road
0.0 0.050 0.1 0.2 0.3 0.4
Kms
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map
Approved
State Level
Jharkhand, Ranchi
Authority





Approved
State Level
Jharkhand, Ranchi
Authority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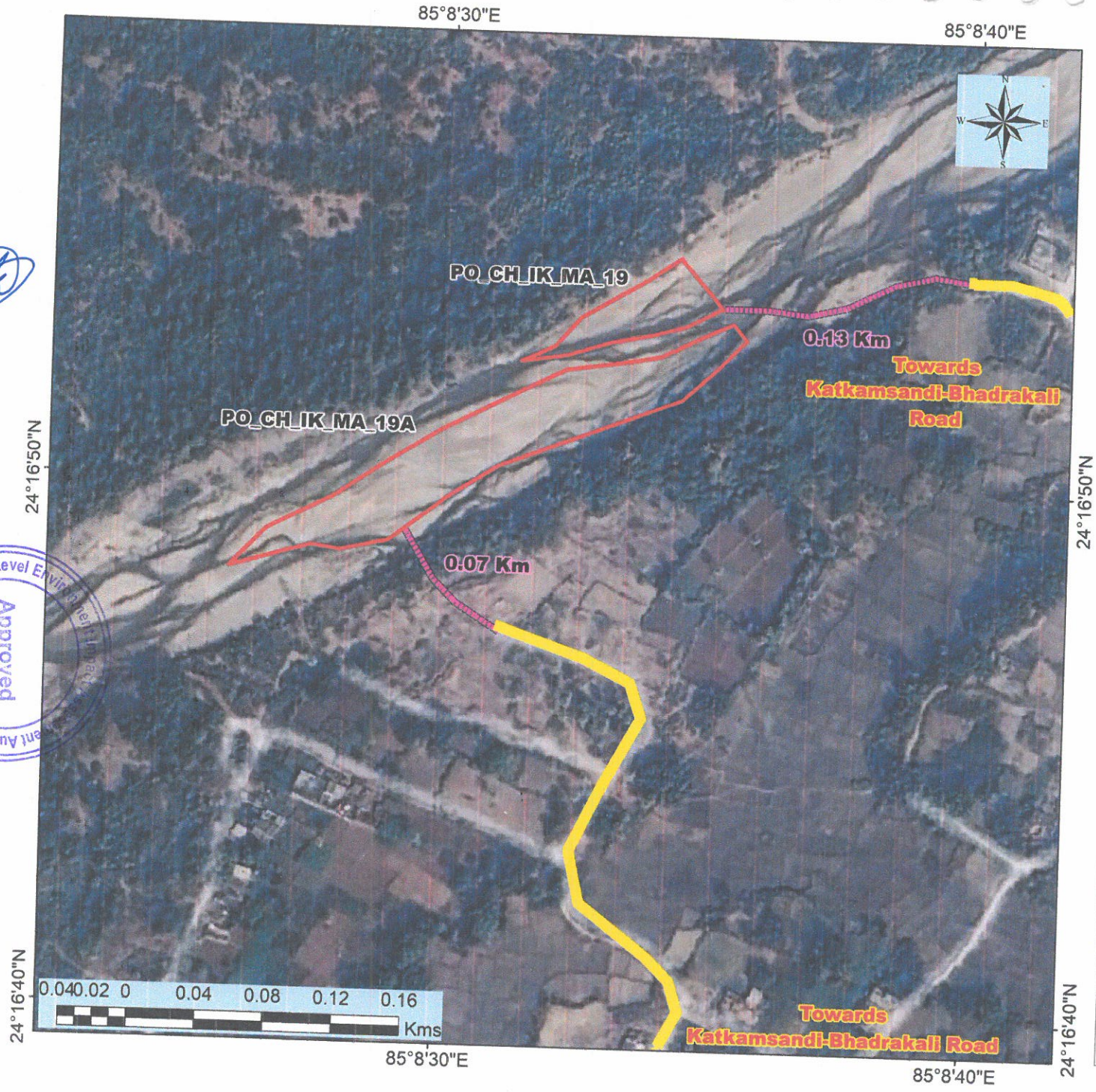
24°17'20"N
24°17'10"N
24°17'0"N
PO_CH_IK_MA_13
PO_CH_IK_MA_14_15
Towards Goriatanr
0.09 Km
0.14 Km
Towards Nagwa
0.1 0.05 0 0.1 0.2 0.3 0.4
Kms
Approved
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map



Approved

State Level Environment Impact Assessment Authority * Jharkhand, Ranchi *

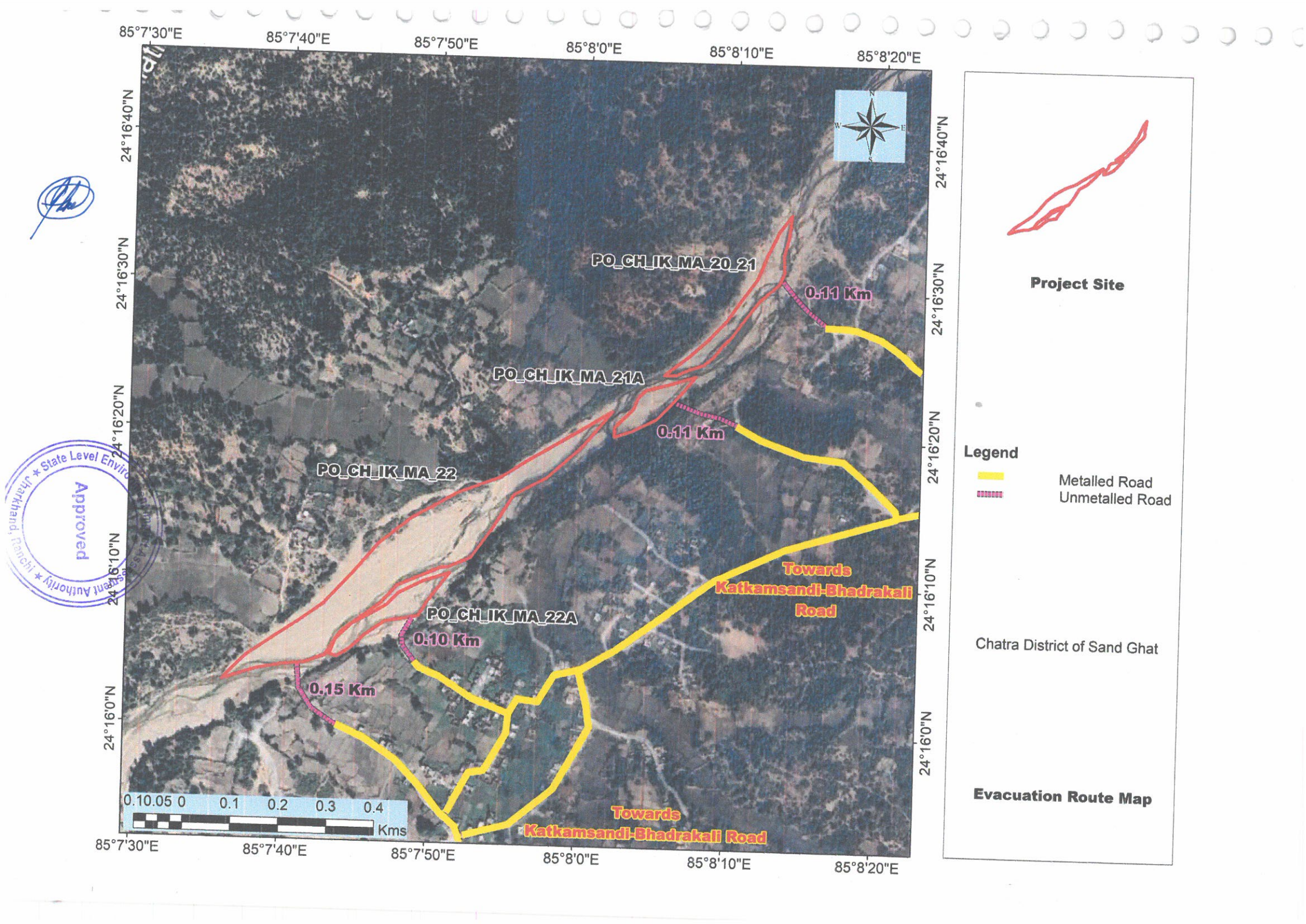
Project Site

Legend

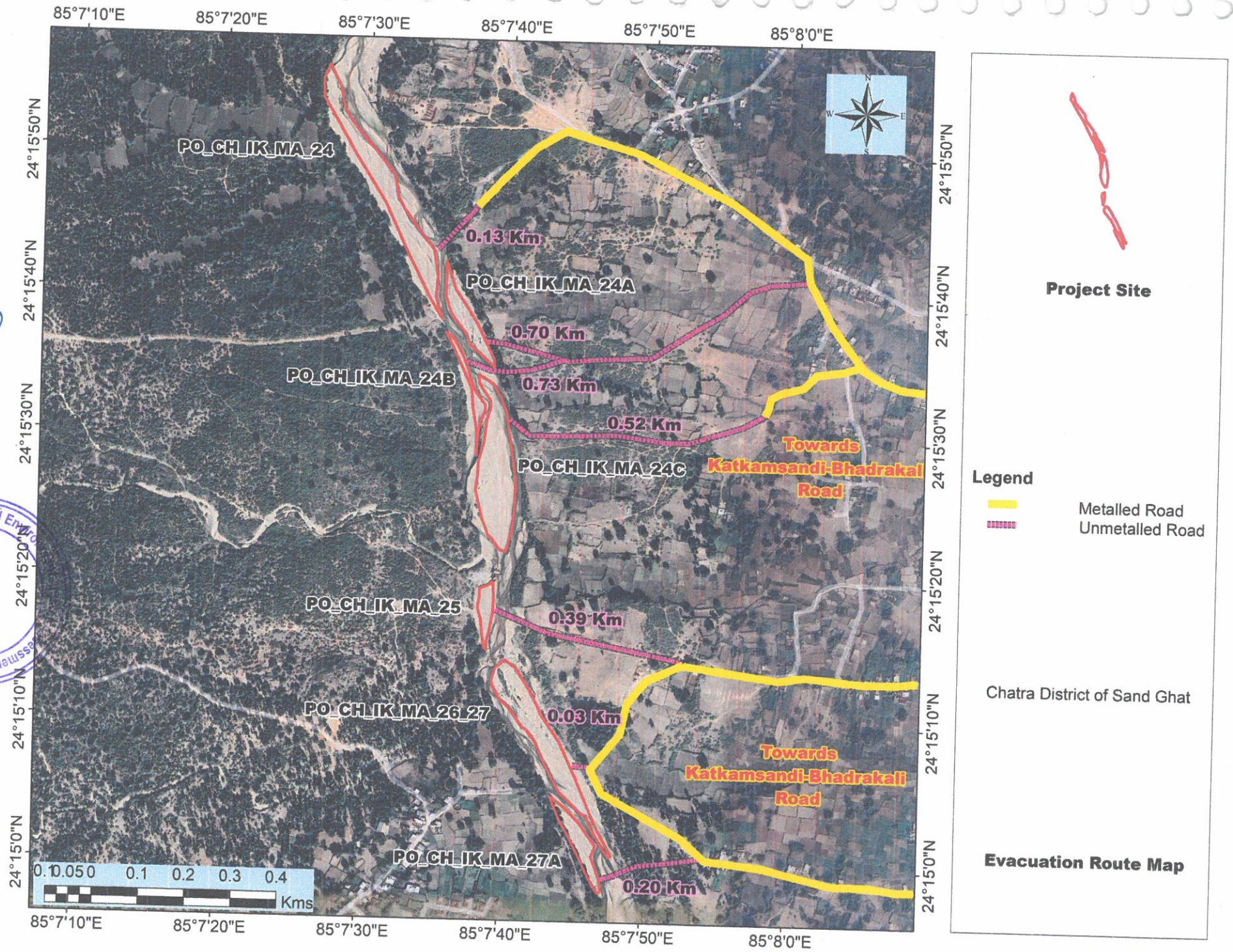
Metalled Road
Unmetalled Road

Chatra District of Sand Ghat

Evacuation Route Map



Approved
State Level Environment Authority Jharkhand, Ranchi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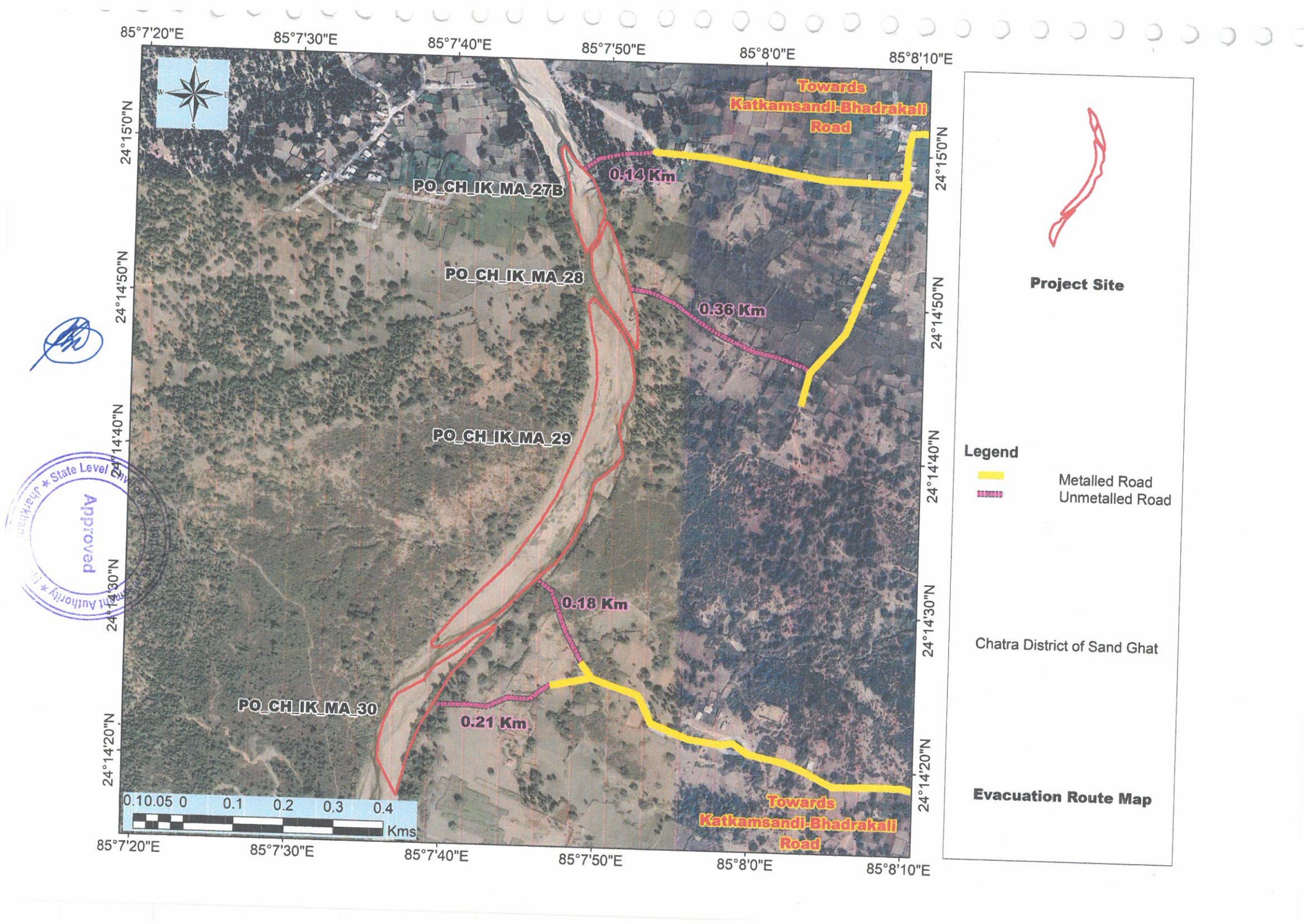
24°15'30"N
24°15'20"N
24°15'10"N
24°15'0"N
PO_CH_IK_MA_24
0.13 Km
PO_CH_IK_MA_24A
0.70 Km
PO_CH_IK_MA_24B
0.73 Km
0.52 Km
PO_CH_IK_MA_24C
Towards Katkamsandi-Bhadrakali Road
PO_CH_IK_MA_25
0.39 Km
PO_CH_IK_MA_26_27
0.03 Km
Towards Katkamsandi-Bhadrakali Road
PO_CH_IK_MA_27A
0.20 Km
0.1 0.05 0 0.1 0.2 0.3 0.4
Kms
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map

Approved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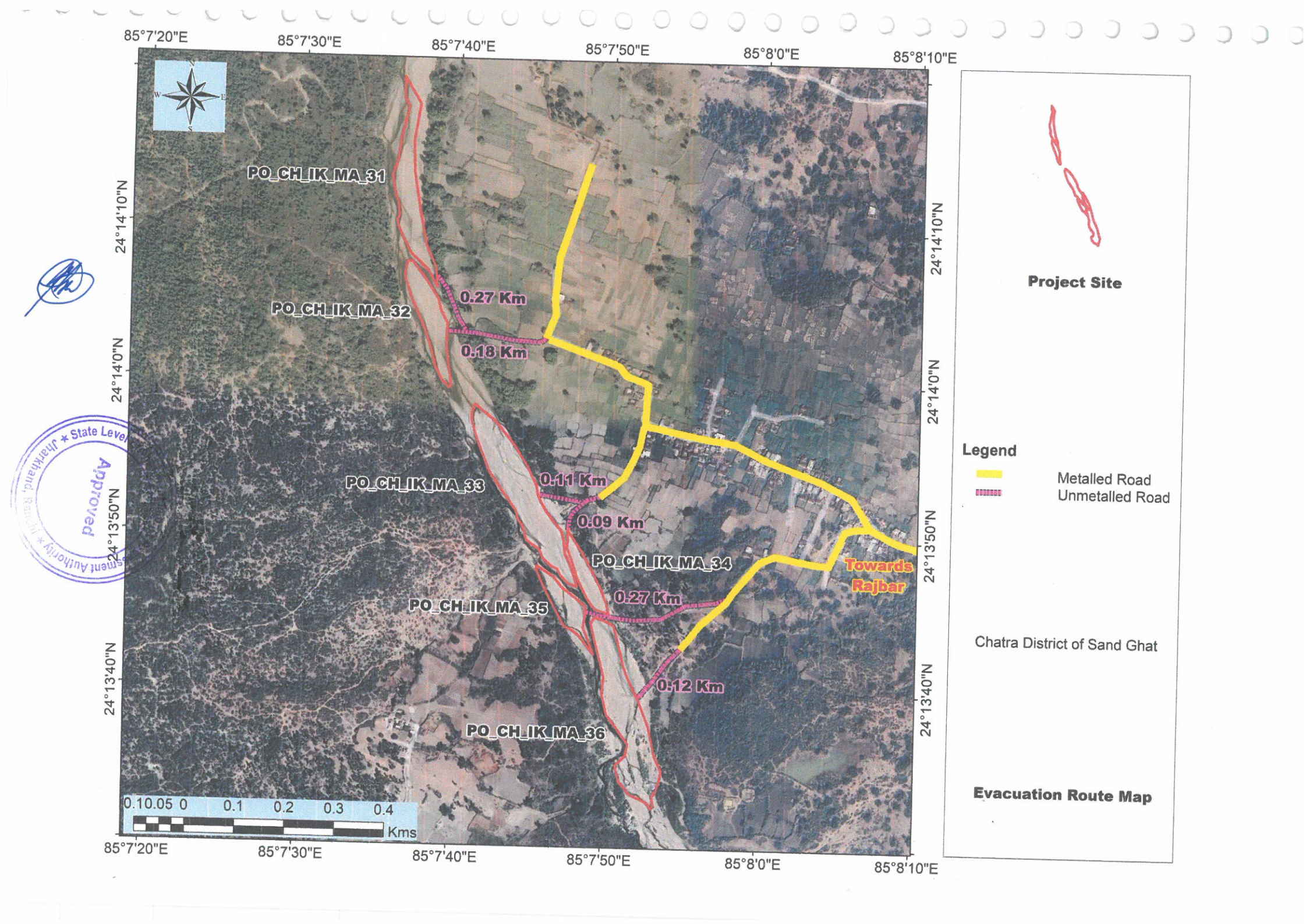
85°8'10"E
24°15'0"N
24°14'50"N
24°14'40"N
24°14'30"N
24°14'20"N
Towards Katkamsandi-Bhadrakali Road
PO_CH_IK_MA_27B
0.14 Km
PO_CH_IK_MA_28
0.36 Km
PO_CH_IK_MA_29
0.18 Km
PO_CH_IK_MA_30
0.21 Km
Towards Katkamsandi-Bhadrakali Road
0.10.05 0 0.1 0.2 0.3 0.4
Kms
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map
Approved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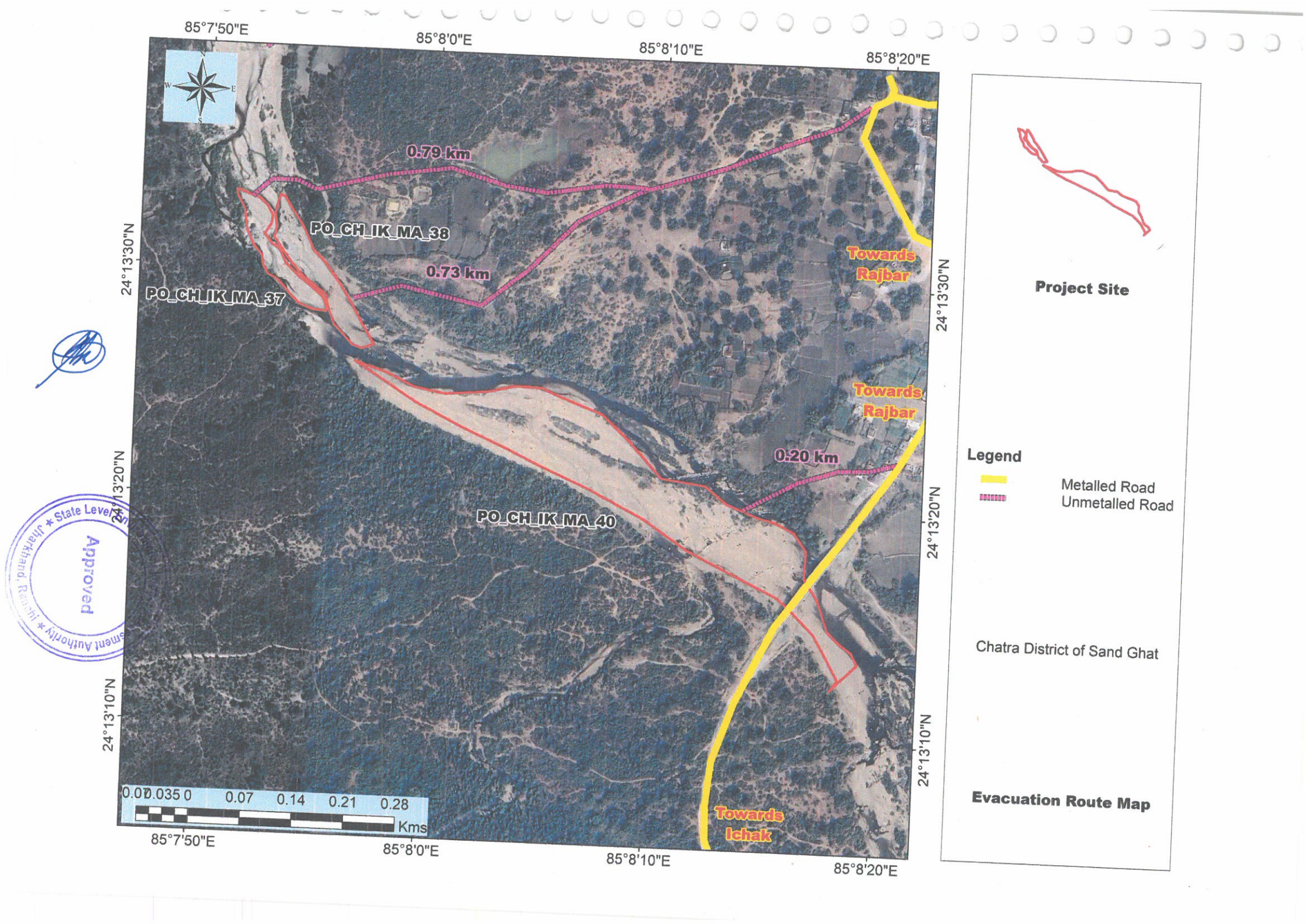
24°13'40"N
PO_CH_IK_MA_31
PO_CH_IK_MA_32
PO_CH_IK_MA_33
PO_CH_IK_MA_34
PO_CH_IK_MA_35
PO_CH_IK_MA_36
0.27 Km
0.18 Km
0.11 Km
0.09 Km
0.27 Km
0.12 Km
Towards Rajbar
0.10.05 0 0.1 0.2 0.3 0.4
Kms
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map
Approved
State Level
Jharkhand
Authority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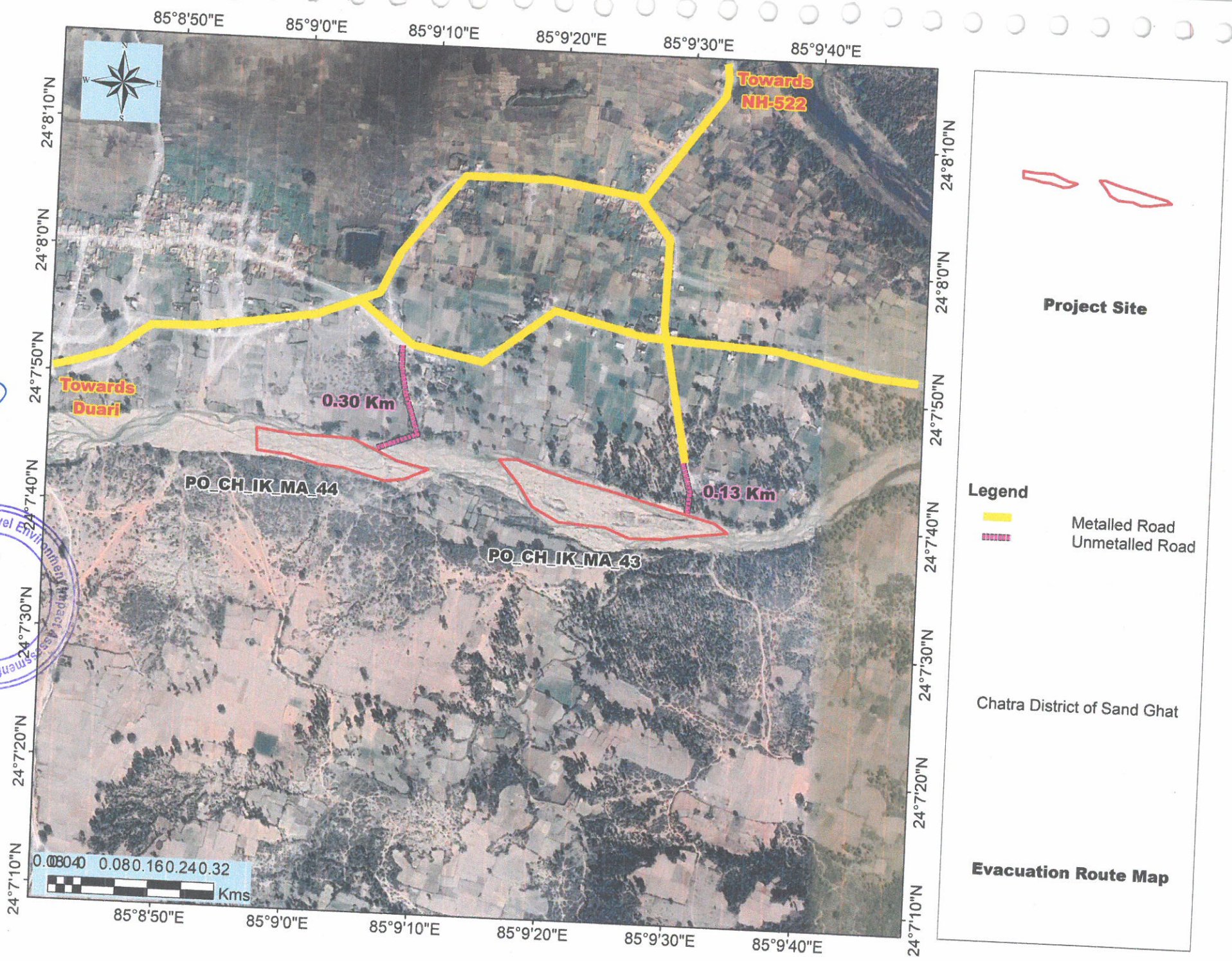
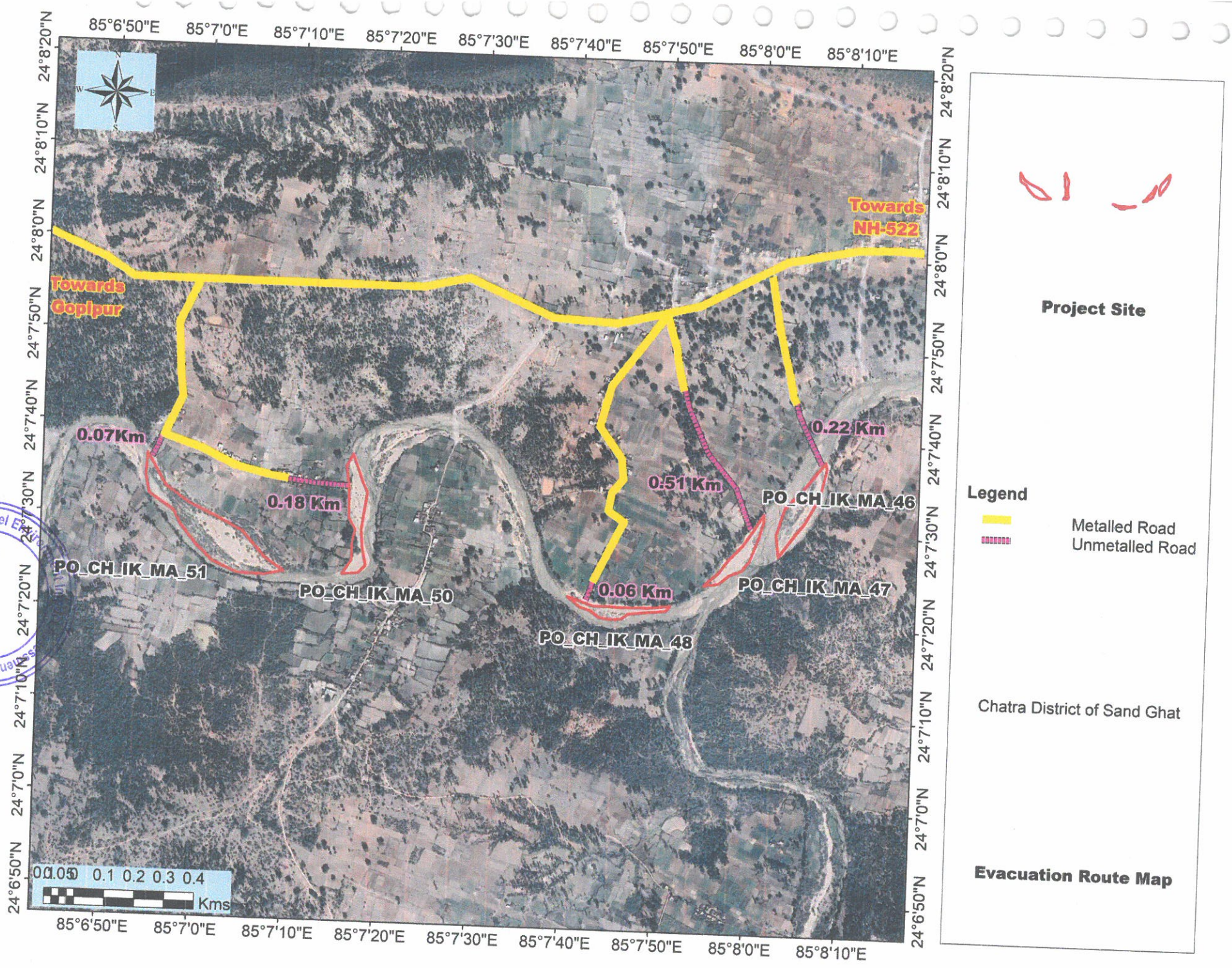
24°13'30"N
24°13'20"N
24°13'10"N
0.79 km
PO_CH_IK_MA_38
0.73 km
PO_CH_IK_MA_37
Towards Rajbar
Towards Rajbar
0.20 km
PO_CH_IK_MA_40
Towards Ichak
0.07 0.035 0 0.07 0.14 0.21 0.28
Kms
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map
Approved
State Level
Jharkhand, Ranchi
Authority



Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi



Project Site

Legend

Metalled Road

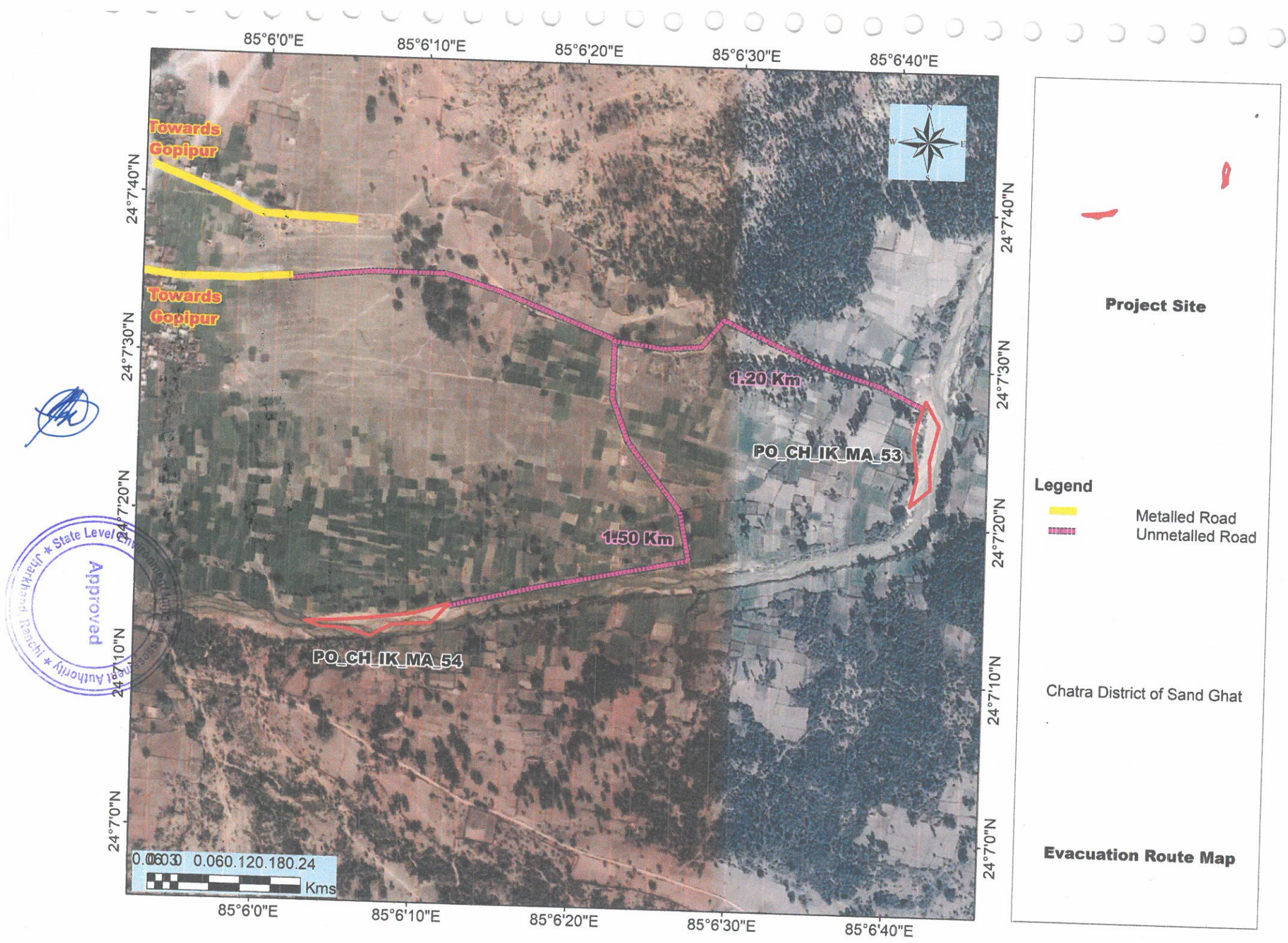
Unmetalled Road

Chatra District of Sand Ghat

Evacuation Route Map

Approved

State Level Environment Authority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85°6'20"E
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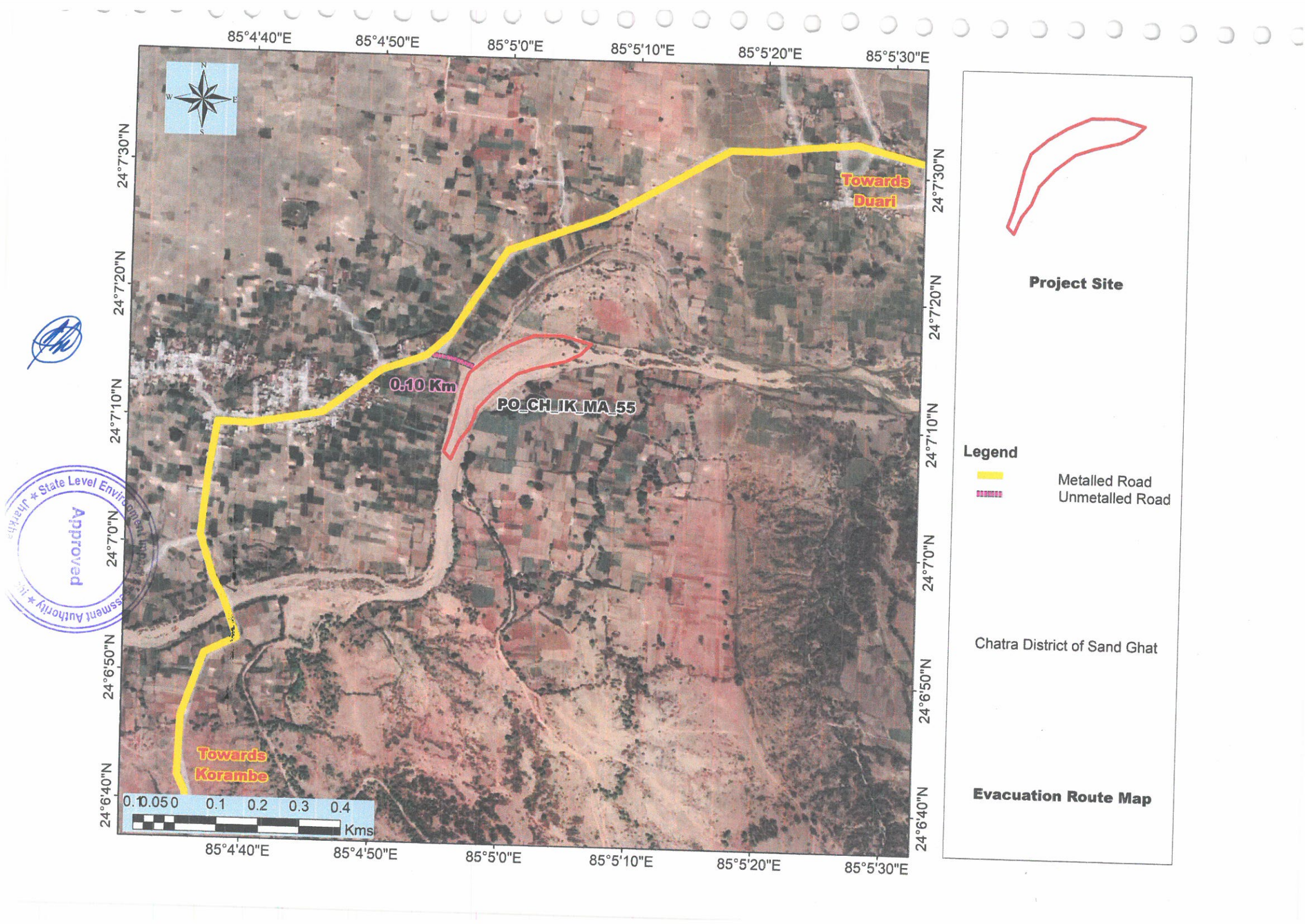
85°6'40"E
24°7'40"N
24°7'30"N
24°7'20"N
24°7'10"N
24°7'0"N
Towards Gopipur
Towards Gopipur
1.20 Km
1.50 Km
PO_CH_IK_MA_53
PO_CH_IK_MA_54
0.00 0.03 0.06 0.12 0.18 0.24
Kms
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map

Approved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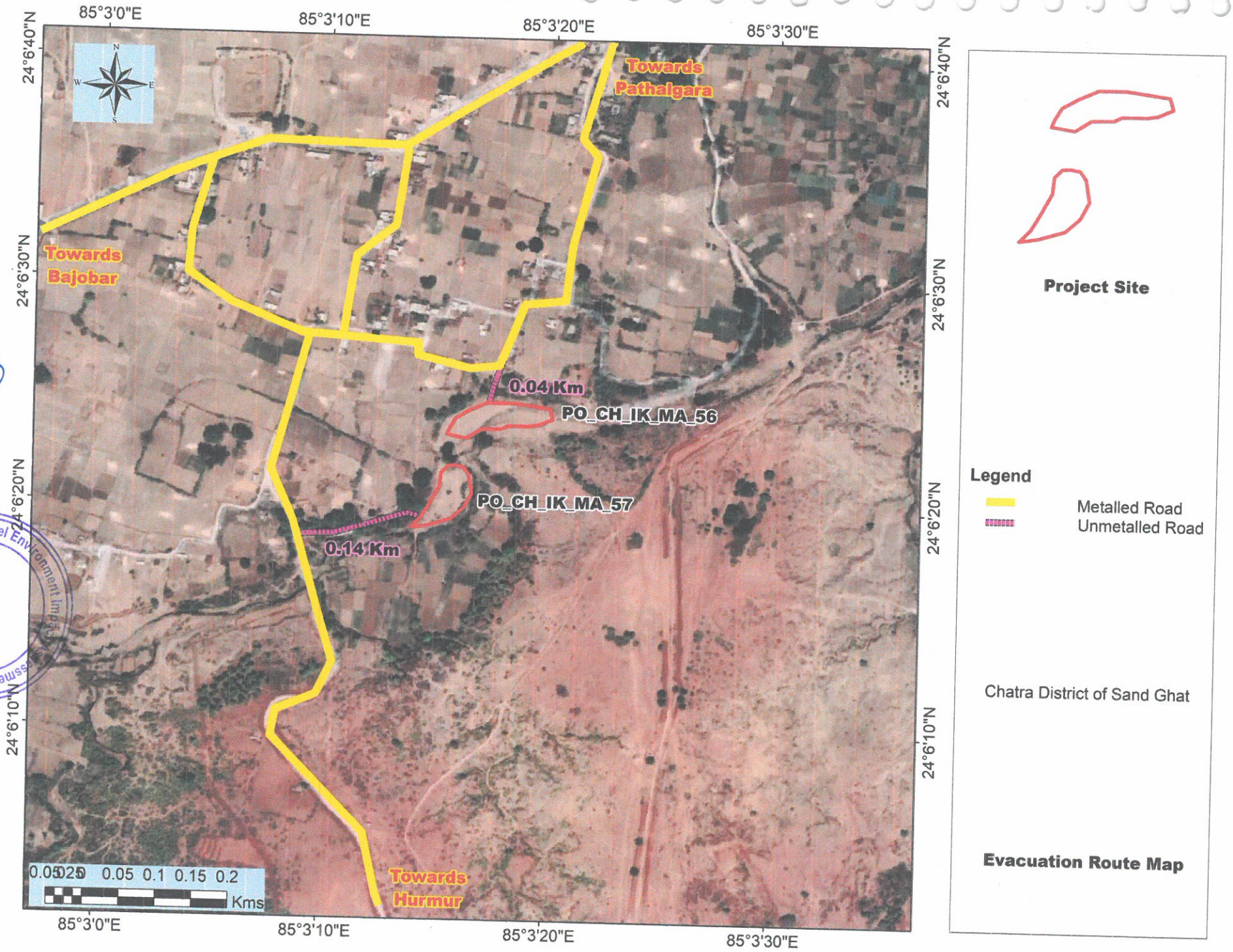
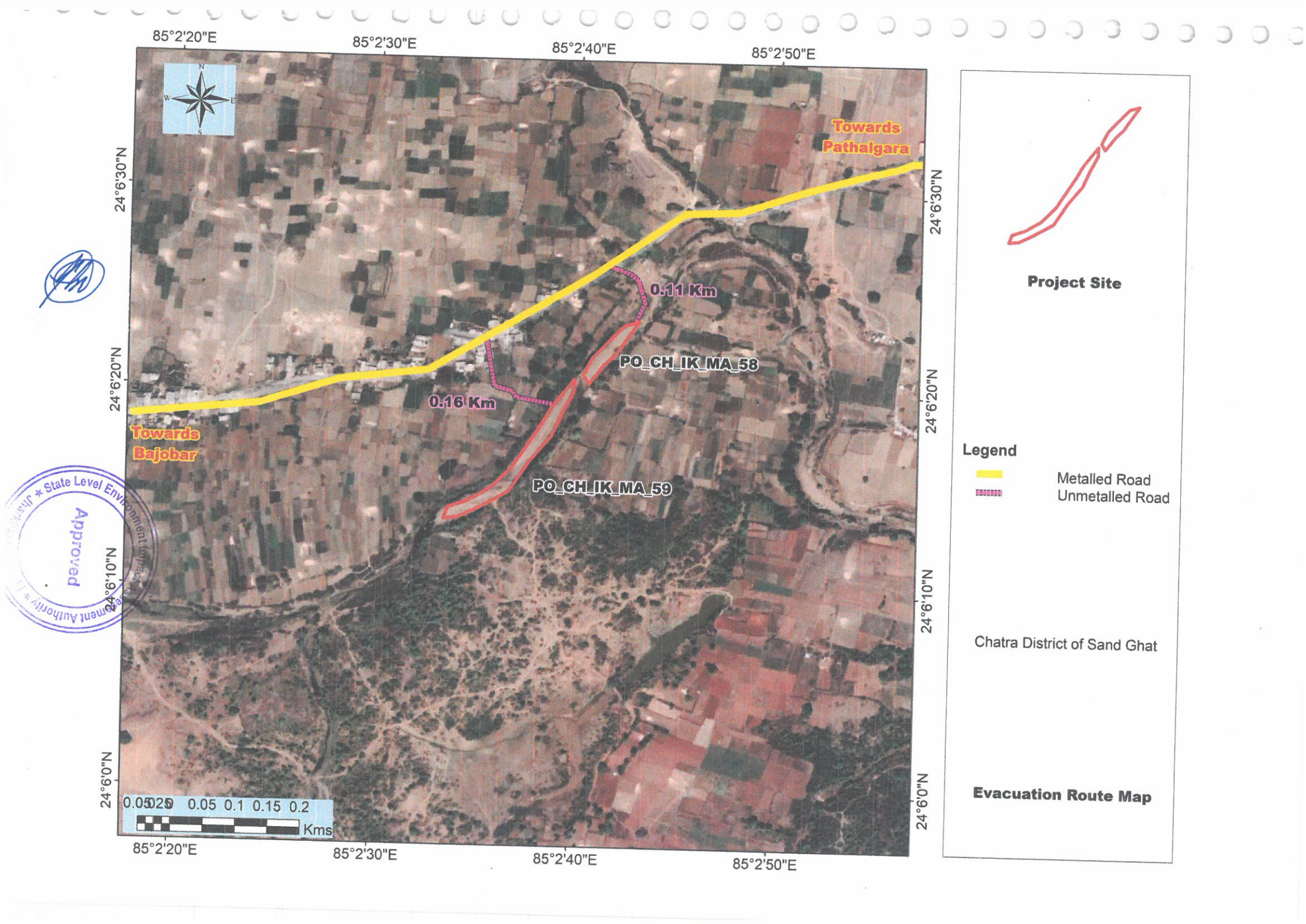
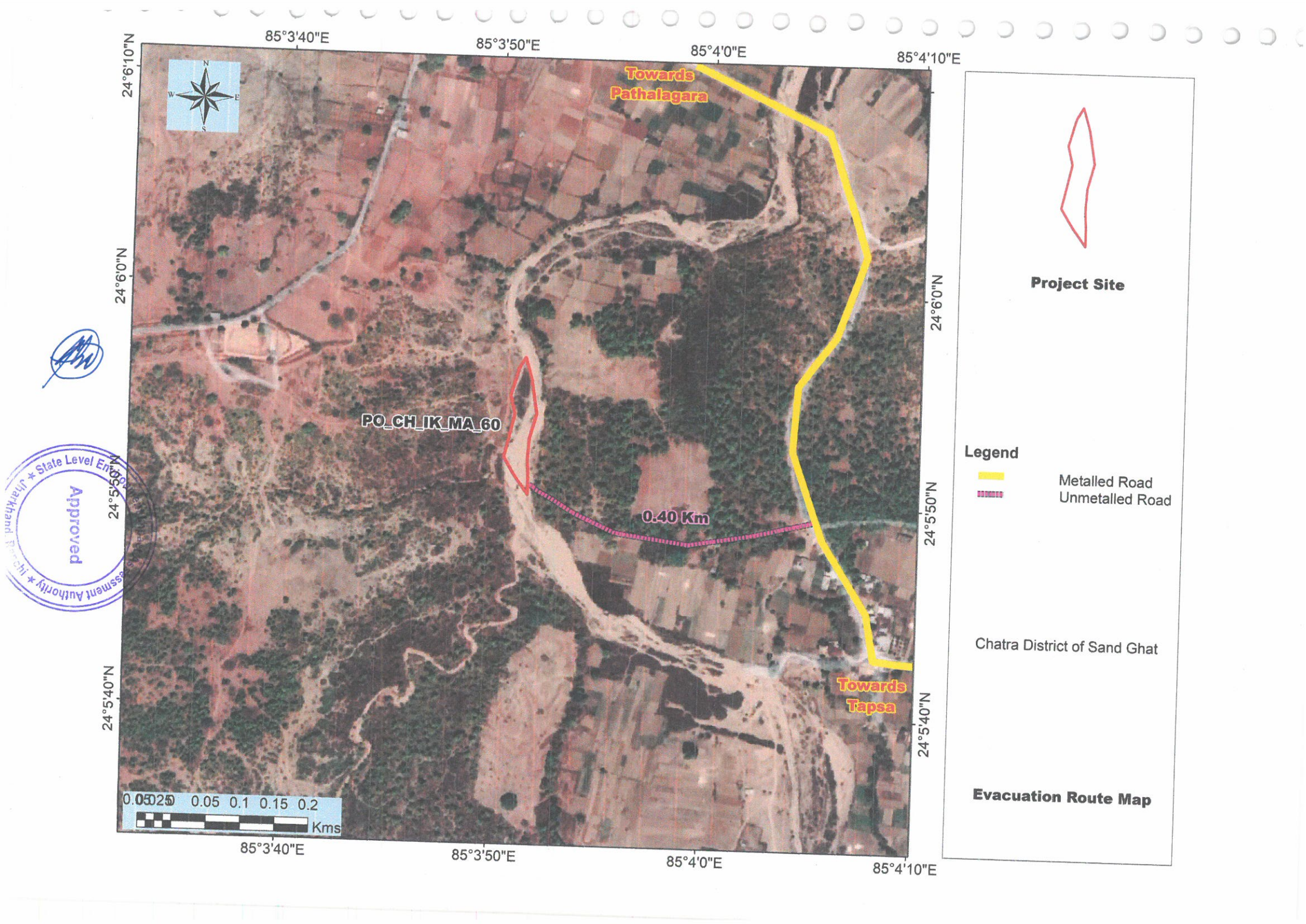
24°7'20"N
24°7'10"N
24°7'0"N
24°6'50"N
24°6'40"N
N
S
E
W
Towards Duari
0.10 Km
PO_CH_IK_MA_55
Towards Korambe
0.1 0.05 0 0.1 0.2 0.3 0.4
Kms
Approved
State Level Environment Impact Assessment Authority
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map



Approved
State Level Environment Impact Assessment Authority



State Level Environment Impact Assessment Authority * Jharkhand *
Approved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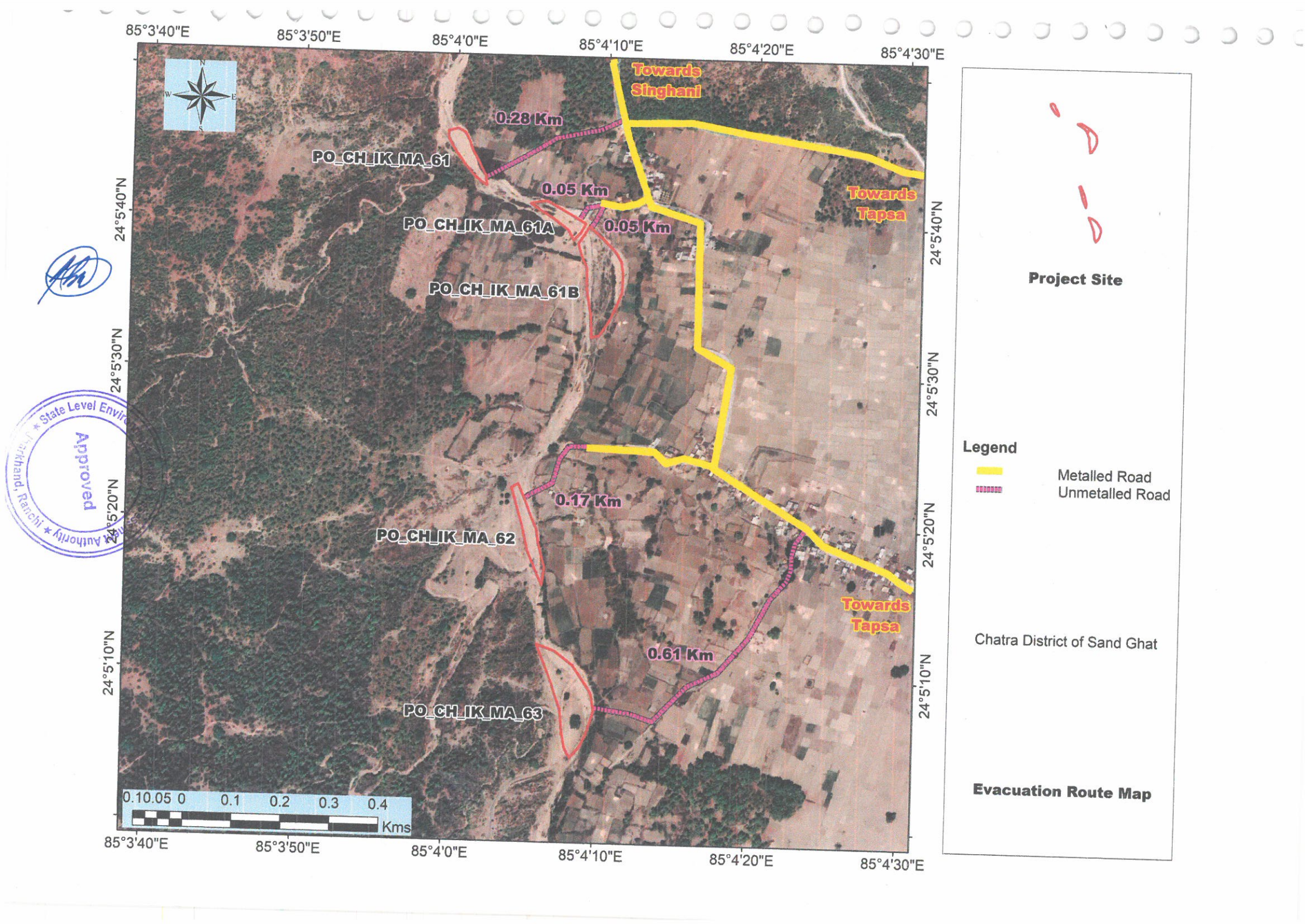
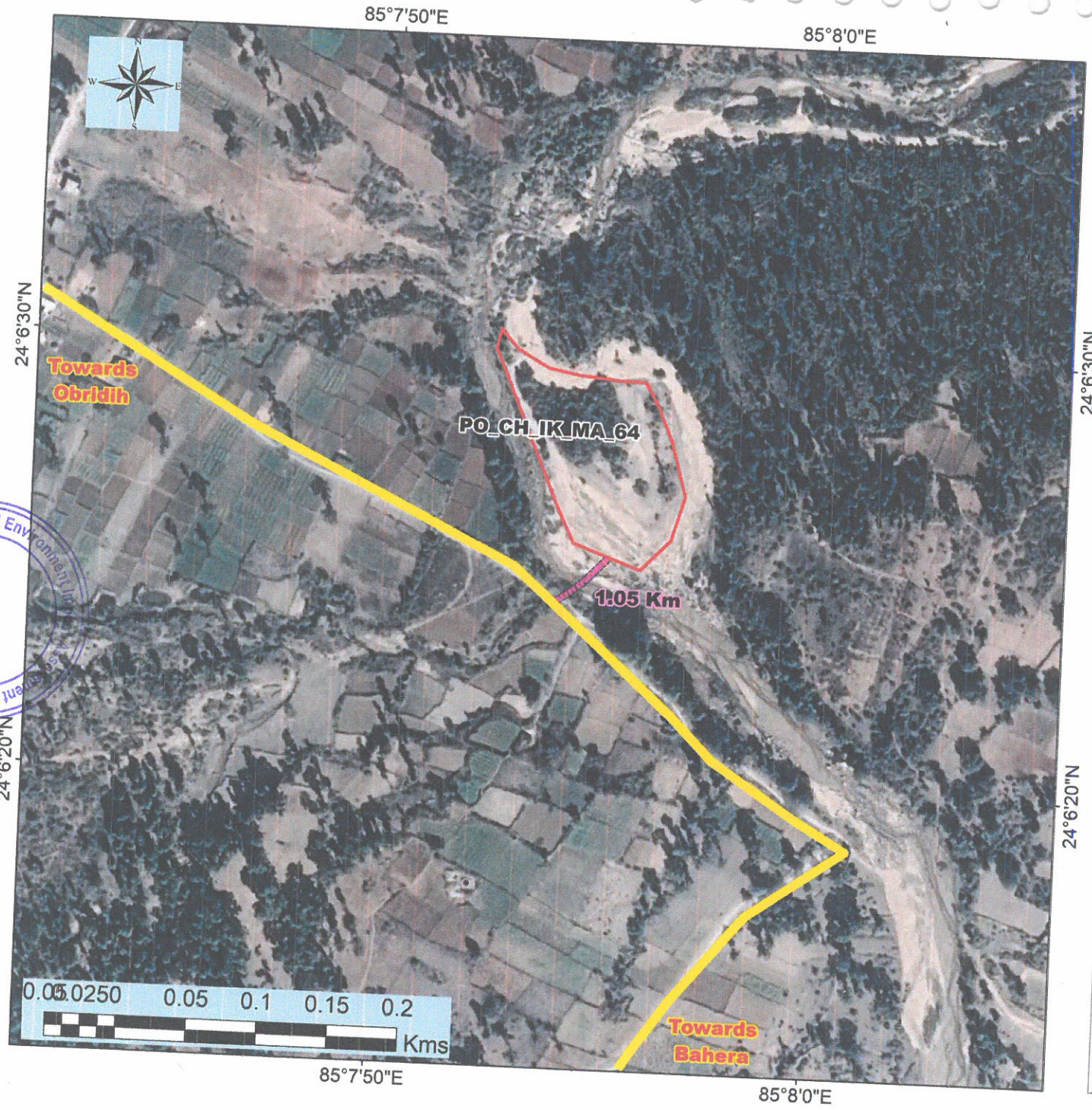
24°6'10"N
24°6'0"N
24°5'50"N
24°5'40"N
N
S
W
E
Towards
Pathalagara
PO_CH_IK_MA_60
0.40 Km
Towards
Tapsa
0.05 0.1 0.15 0.2
Kms
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map
Approved
State Level Environment Impact Assessment Authority



State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★
Approved



Project Site

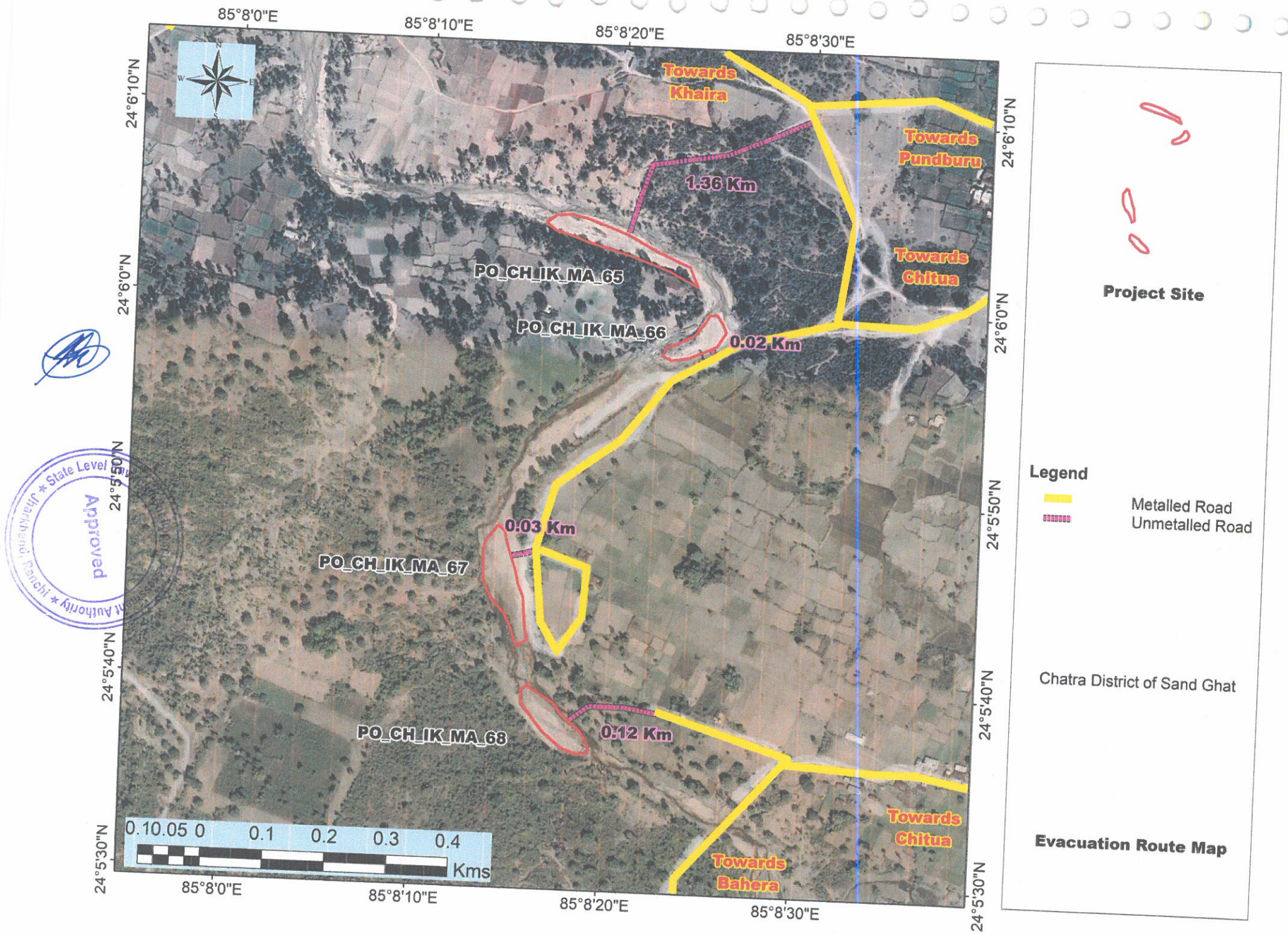
Legend

Metalled Road
Unmetalled Road

Chatra District of Sand Ghat

Evacuation Route Map

Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi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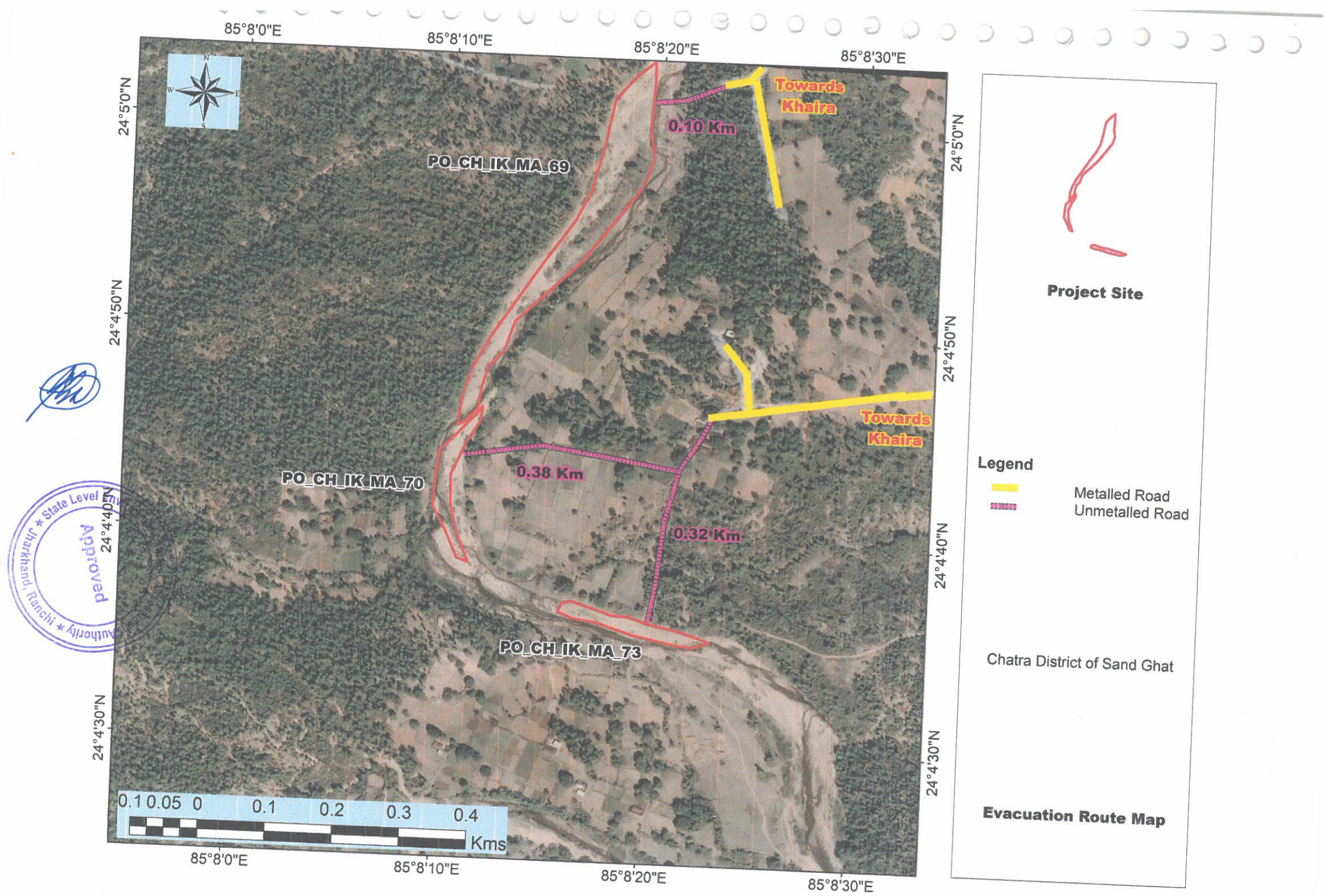
24°6'0"N
24°5'50"N
24°5'40"N
24°5'30"N
Towards Khaira
Towards Pundburu
Towards Chitua
1.36 Km
PO_CH_IK_MA_65
PO_CH_IK_MA_66
0.02 Km
0.03 Km
PO_CH_IK_MA_67
PO_CH_IK_MA_68
0.12 Km
Towards Chitua
Towards Bahera
0.10.05 0 0.1 0.2 0.3 0.4
Kms
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map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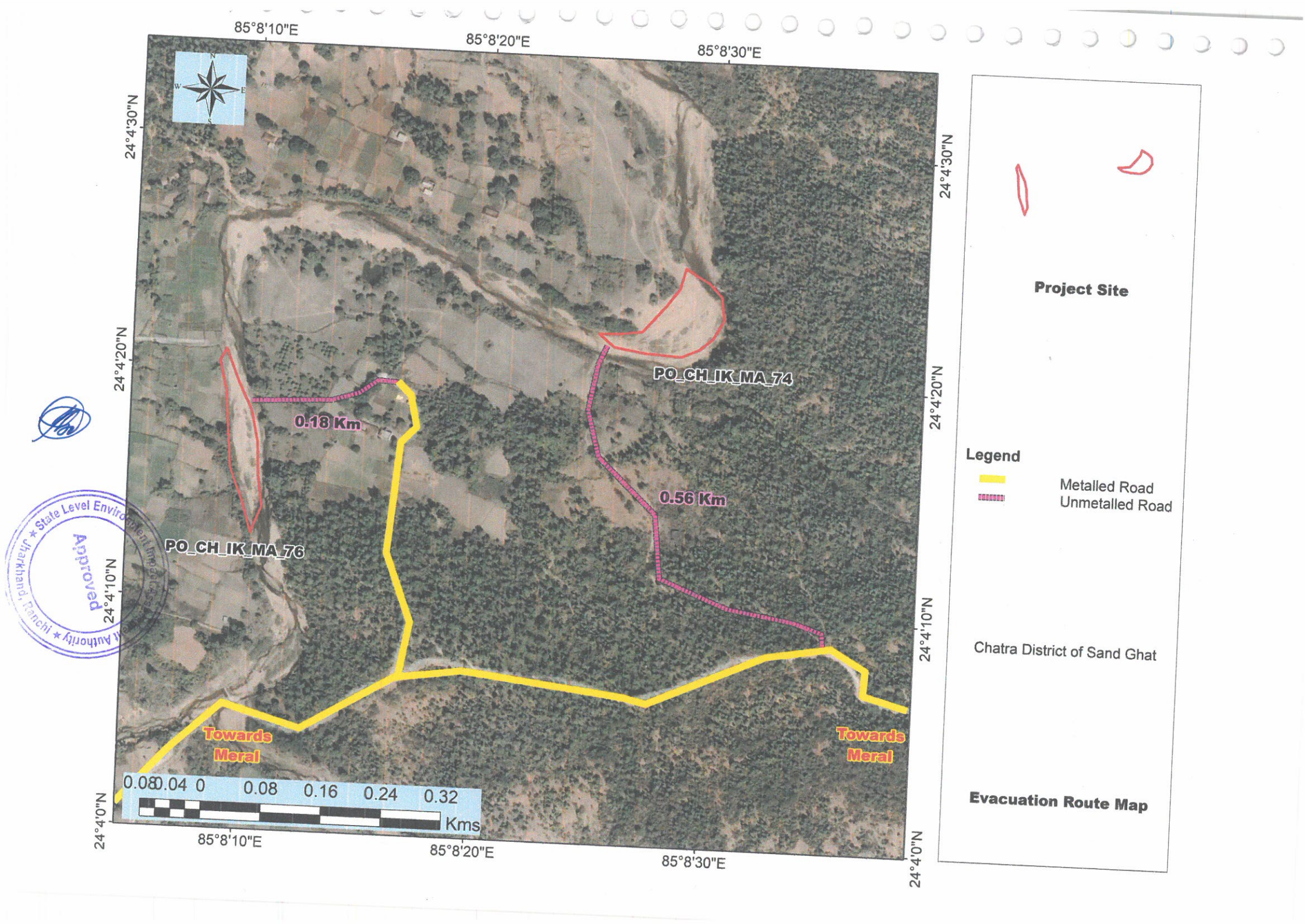
24°4'30"N
N
S
E
W
PO_CH_IK_MA_69
PO_CH_IK_MA_70
PO_CH_IK_MA_73
0.10 Km
0.38 Km
0.32 Km
Towards Khaira
Towards Khaira
0.1 0.05 0 0.1 0.2 0.3 0.4
Kms
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map
Approved
Authority ★ Jharkhand, Ranchi ★ State Level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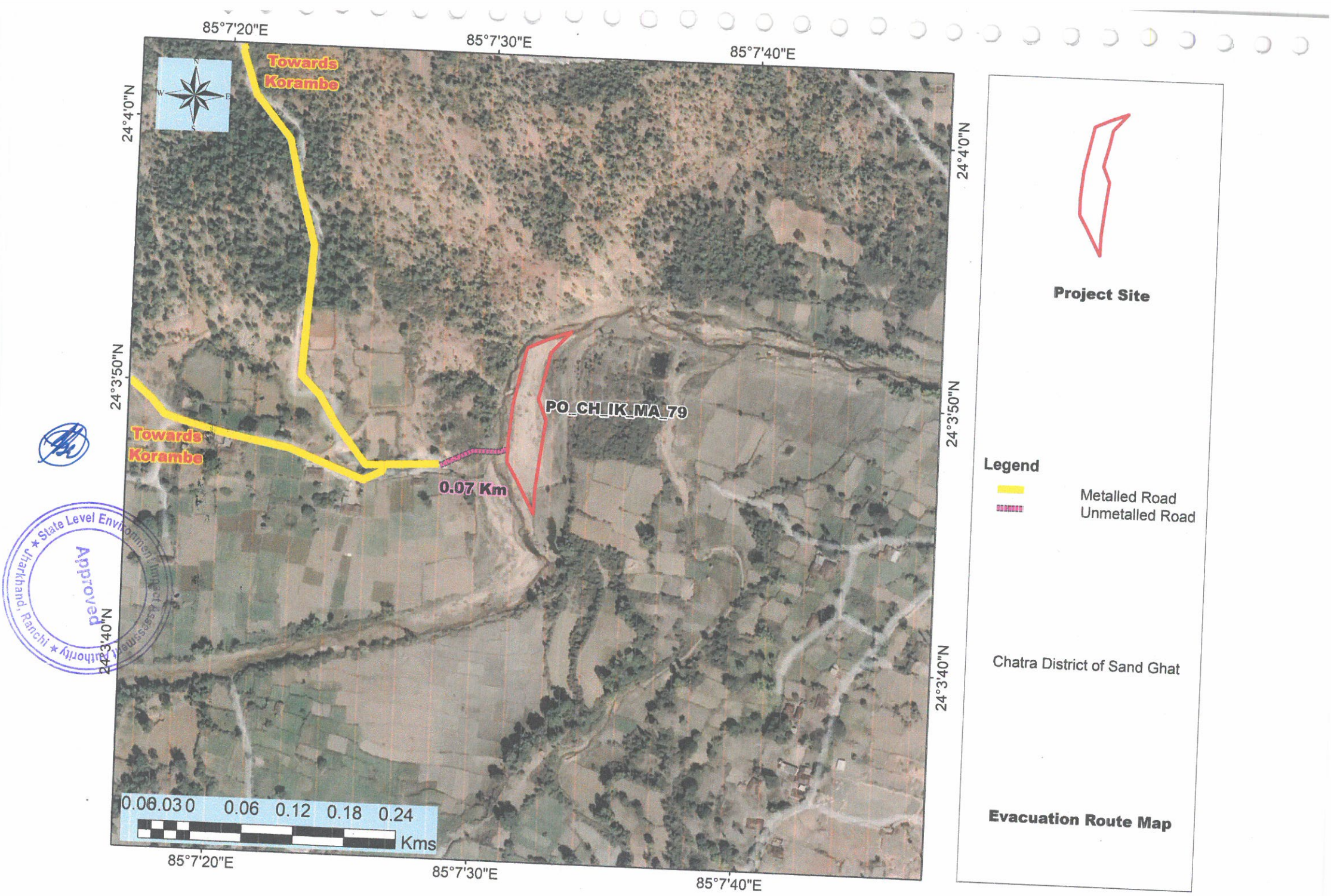
PO_CH_IK_MA_74
0.18 Km
0.56 Km
PO_CH_IK_MA_76
Towards Meral
Towards Meral
0.08 0.04 0 0.08 0.16 0.24 0.32
Kms
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi


85°7'20"E
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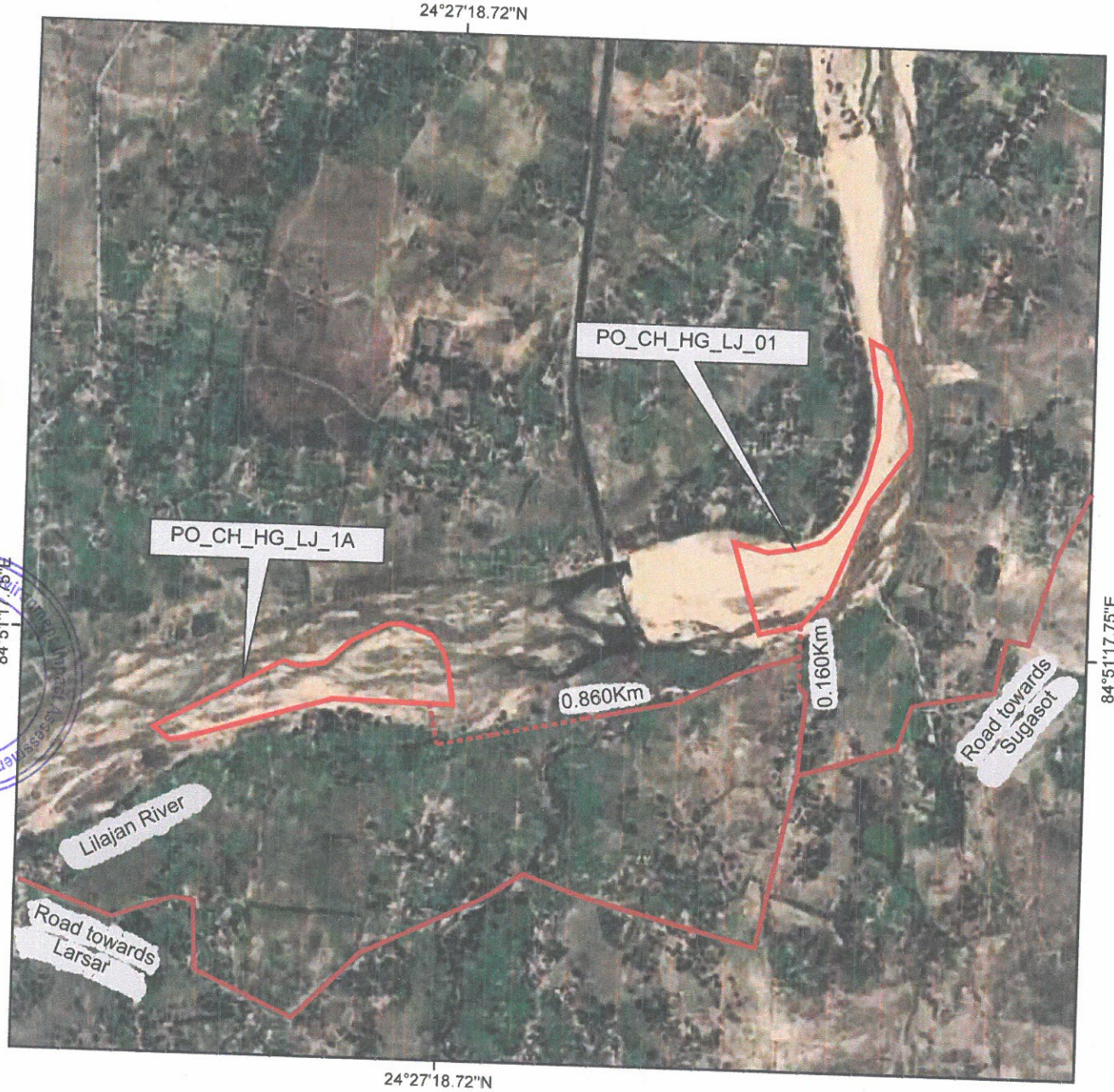
85°7'40"E
24°4'0"N
24°3'50"N
24°3'40"N
Towards Korambe
Towards Korambe
PO_CH_IK_MA_79
0.07 Km
0.06 0.03 0 0.06 0.12 0.18 0.24
Kms
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
Project Site
Legend
Metalled Road
Unmetalled Road
Chatra District of Sand Ghat
Evacuation Route Map



State Level Environment Impact Assessment Authority ★ Jharkhand ★ Ranchi ★
Approved

N
W E
S

HAUL ROAD MAP OF THE PROJECT SITE

Legend

- Project Site
- Houl Road
- Metalled Road

Project:PO_CH_HG_LJ_01
PO_CH_HG_LJ_1A
Lilajan River
Dist-Chatra

Source: Google Earth Image

Graphical Scale:

0 500 1Km



N
W E
S

HAUL ROAD MAP
OF THE PROJECT SITE

Legend

Project Site

Houl Road

Metalled Road

Project:PO_CH_HG_LJ_02
PO_CH_HG_LJ_03
Lilajan River
Dist-Chatra

Source: Google Earth Image

Graphical Scale:

0 500 1Km

Approved



Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi

N
W E
S

HAUL ROAD MAP
OF THE PROJECT SITE

Legend

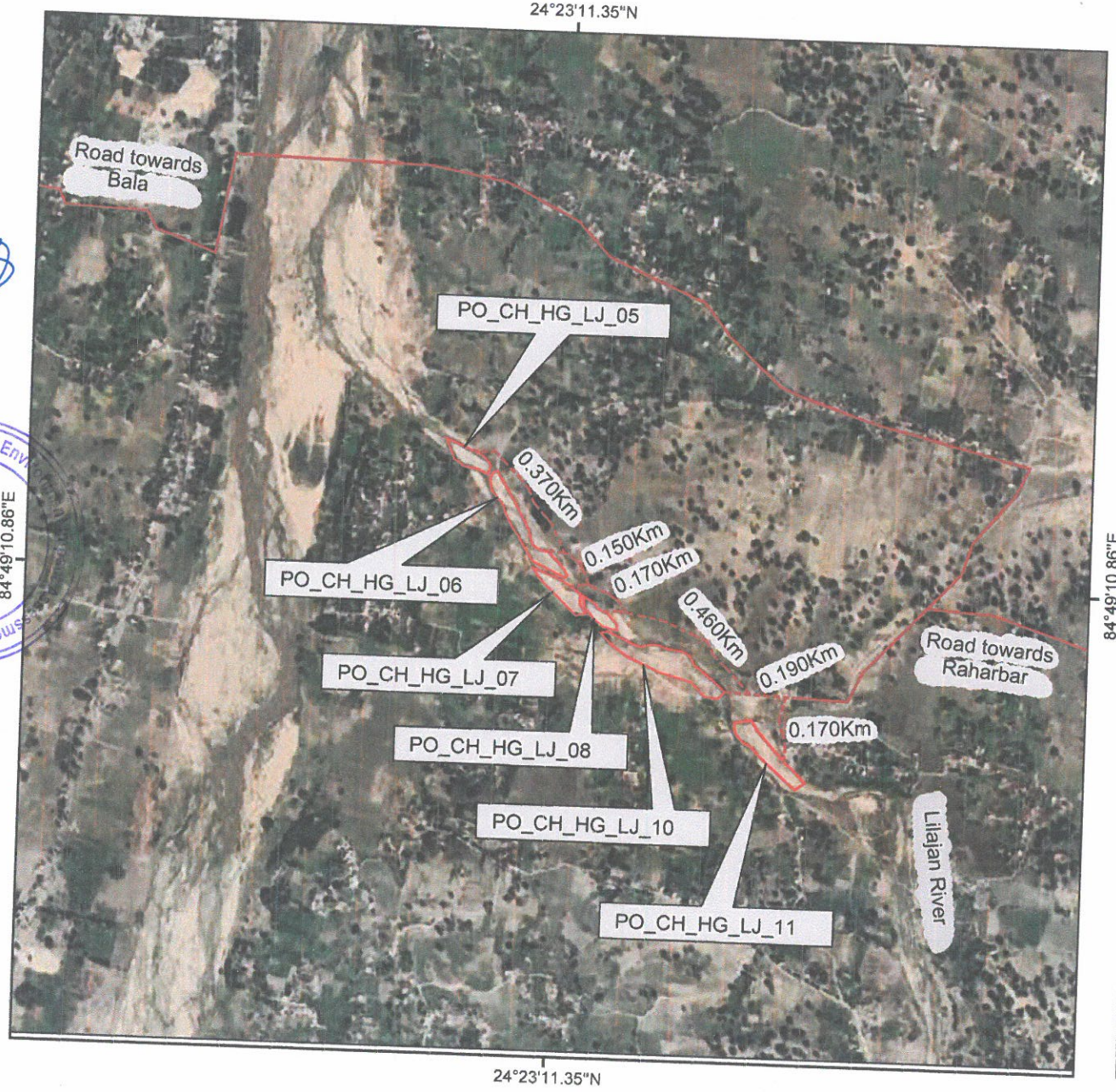
- Project Site
- Houl Road
- Metalled Road

Project:PO_CH_HG_LJ_04
Lilajan River
Dist-Chatra

Source: Google Earth Image

Graphical Scale:

0 500 1Km



N
W E
S

HAUL ROAD MAP OF THE PROJECT SITE

Legend

- Project Site
- Houl Road
- Metalled Road

Project:PO_CH_HG_LJ_05
PO_CH_HG_LJ_06
PO_CH_HG_LJ_07
PO_CH_HG_LJ_08
PO_CH_HG_LJ_10
PO_CH_HG_LJ_11
Lilajan River
Dist-Chatra

Source: Google Earth Image

Graphical Scale:

0 500 1Km

Approved
State Level Environment Authority ★ Jharkhand, Ranchi ★



State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★
Approved

N
W E
S

HAUL ROAD MAP
OF THE PROJECT SITE

Legend

Project Site

Houl Road

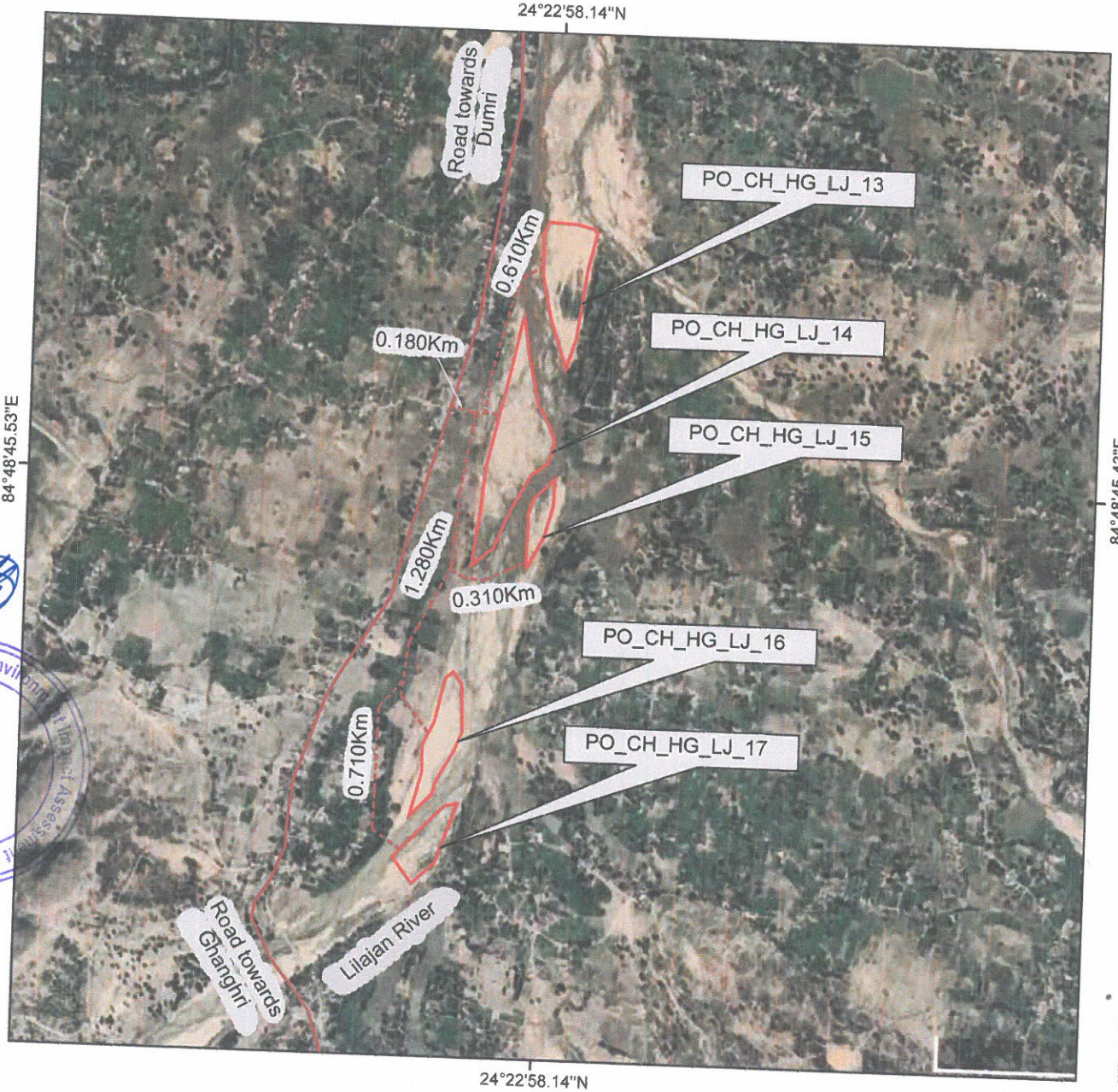
Metalled Road

Project:PO_CH_HG_LJ_12
Lilajan River
Dist-Chatra

Source: Google Earth Image

Graphical Scale:

0 250 500M



HAUL ROAD MAP
OF THE PROJECT SITE

Legend

- Project Site
- Houl Road
- Metalled Road

Project:PO_CH_HG_LJ_13
PO_CH_HG_LJ_14
PO_CH_HG_LJ_15
PO_CH_HG_LJ_16
PO_CH_HG_LJ_17
Lilajan River
Dist-Chatra

Source: Google Earth Image

Graphical Scale:

0 500 1Km

Approved
State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★



N
W E
S

HAUL ROAD MAP
OF THE PROJECT SITE

Legend

Project Site

Houl Road

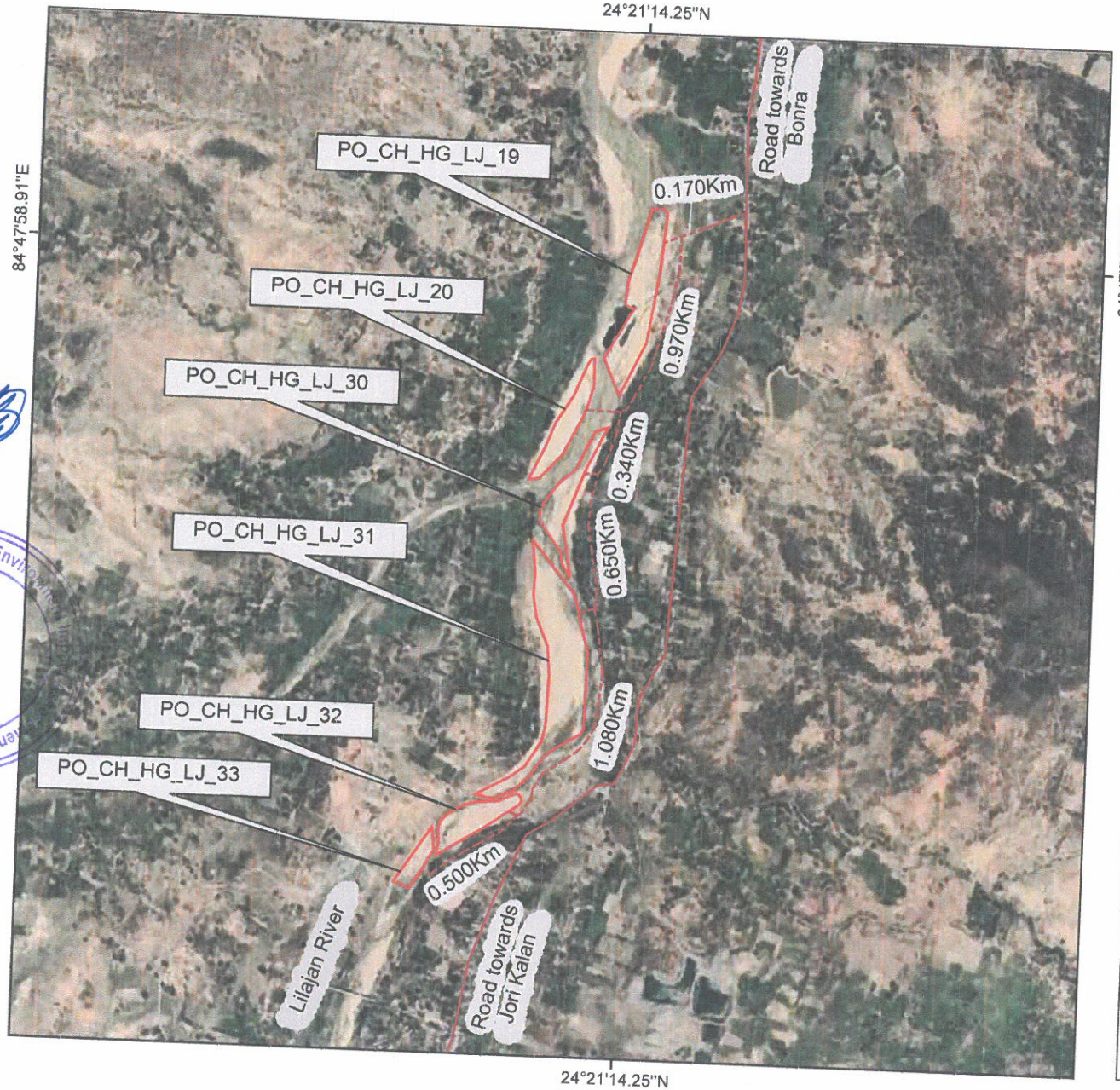
Metalled Road

Project:PO_CH_HG_LJ_17A
Lilajan River
Dist-Chatra

Source: Google Earth Image

Graphical Scale:

0 250 500M



N
W E
S

HAUL ROAD MAP
OF THE PROJECT SITE

Legend

Project Site

Houl Road

Metalled Road

Project:PO_CH_HG_LJ_19
PO_CH_HG_LJ_20
PO_CH_HG_LJ_30
PO_CH_HG_LJ_31
PO_CH_HG_LJ_32
PO_CH_HG_LJ_33
Lilajan River
Dist-Chatra

Source: Google Earth Image

Graphical Scale:

0 500 1Km

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HAUL ROAD MAP
OF THE PROJECT SITE

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Legend

- Project Site
- Houl Road
- Metalled Road

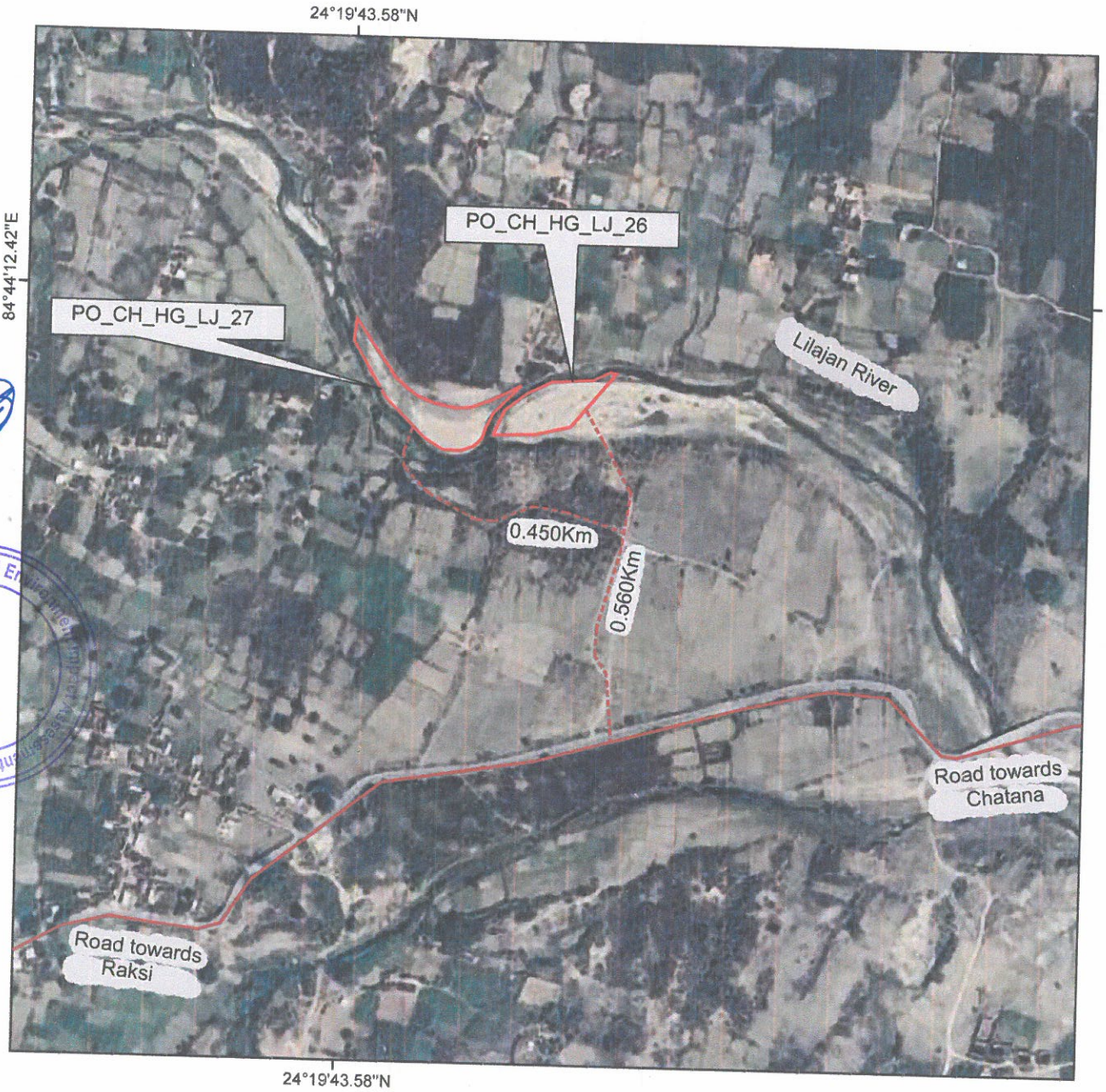
Project:PO_CH_HG_LJ_23
PO_CH_HG_LJ_24
Lilajan River
Dist-Chatra

Source: Google Earth Image

Graphical Scale:

0 250 500M

Approved



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HAUL ROAD MAP OF THE PROJECT SITE

Legend

- Project Site
- Houl Road
- Metalled Road

Project:PO_CH_HG_LJ_26
PO_CH_HG_LJ_27
Lilajan River
Dist-Chatra

Source: Google Earth Image

Graphical Scale:

0 100 200 300M



HAUL ROAD MAP
OF THE PROJECT SITE

Legend

- Project Site
- Houl Road
- Metalled Road

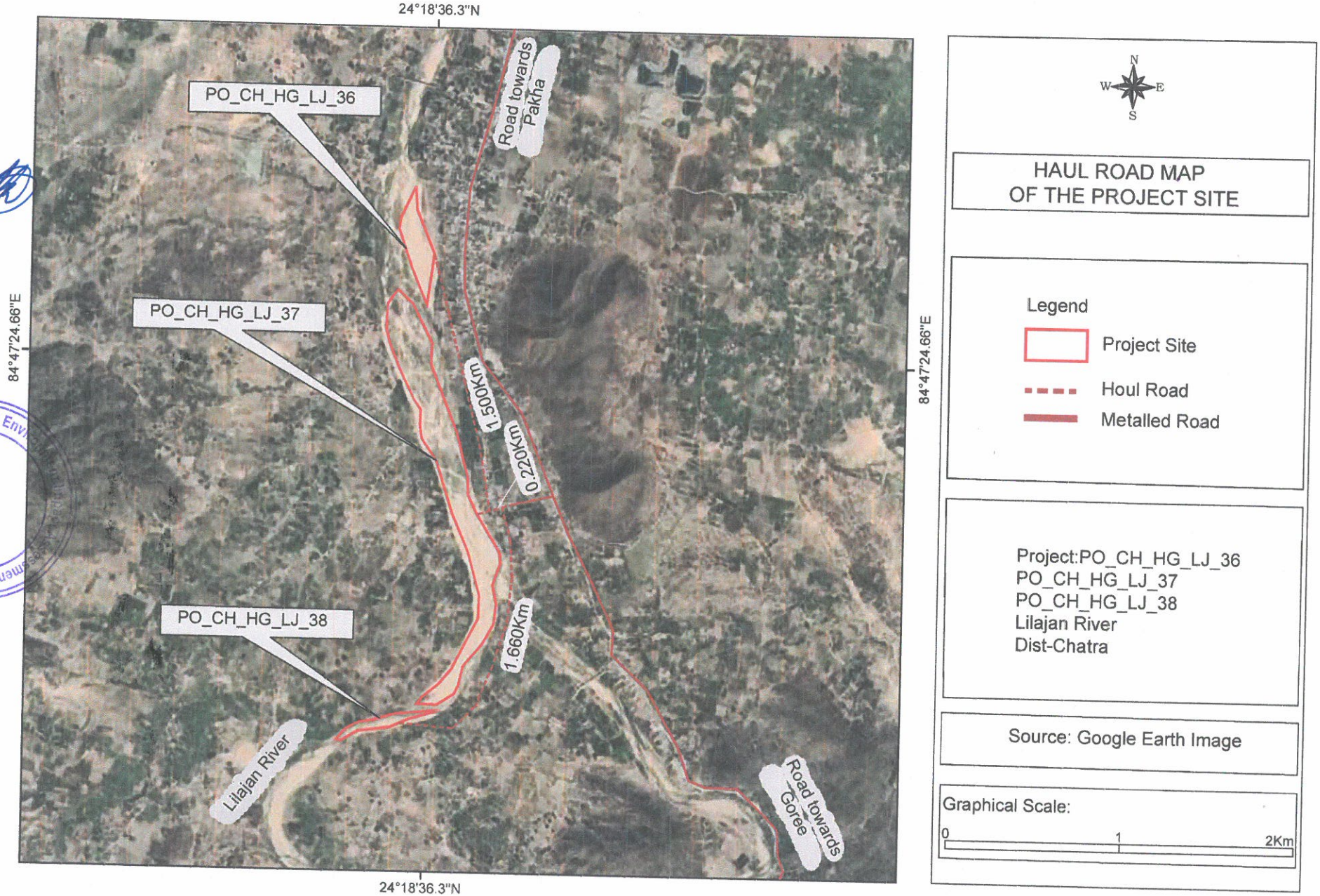
Project:PO_CH_HG_LJ_29
Lilajan River
Dist-Chatra

Source: Google Earth Image

Graphical Scale:

0 100 200M

Approved



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HAUL ROAD MAP OF THE PROJECT SITE

Legend

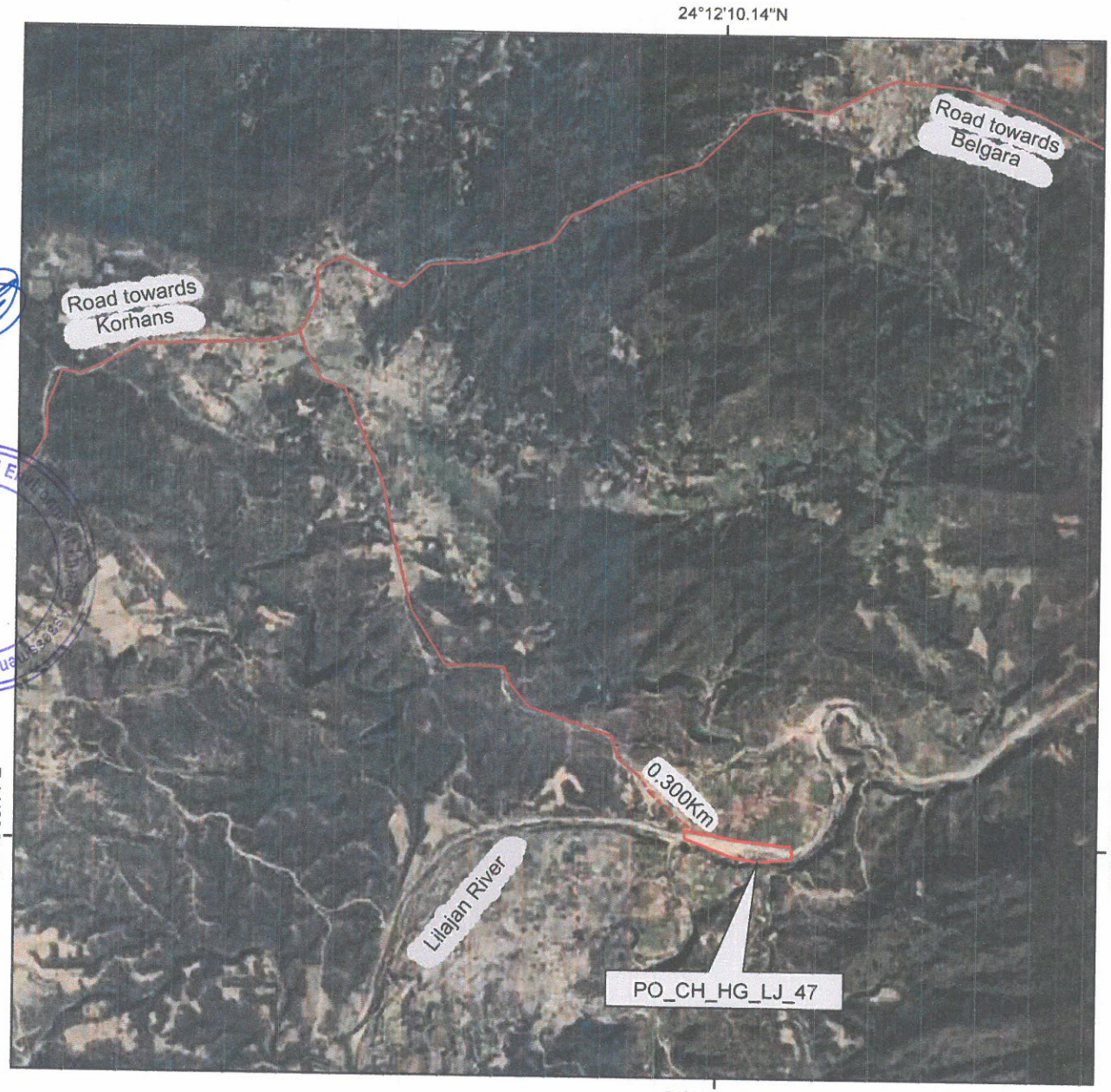
- Project Site
- Houl Road
- Metalled Road

Project:PO_CH_HG_LJ_40
PO_CH_HG_LJ_41
PO_CH_HG_LJ_43
PO_CH_HG_LJ_43A
PO_CH_HG_LJ_44
Lilajan River
Dist-Chatra

Source: Google Earth Image

Graphical Scale:

0 0 2Km



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HAUL ROAD MAP OF THE PROJECT SITE

Legend

- Project Site
- Houl Road
- Metalled Road

Project:PO_CH_HG_LJ_47
Lilajan River
Dist-Chatra

Source: Google Earth Image

Graphical Scale:

0 500 1Km

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HAUL ROAD MAP
OF THE PROJECT SITE

Legend

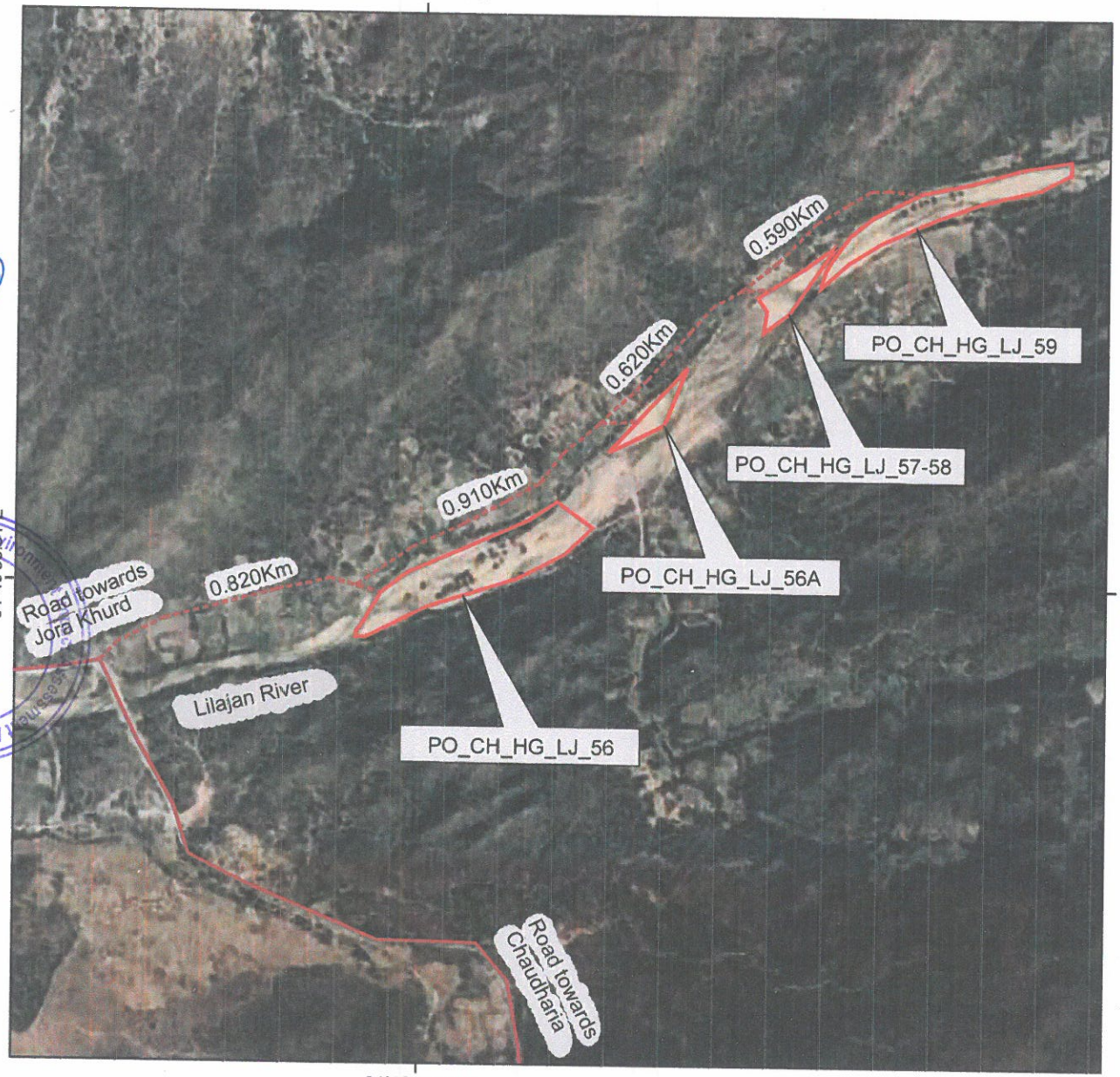
- Project Site
- Houl Road
- Metalled Road

Project:PO_CH_HG_LJ_52A
Lilajan River
Dist-Chatra

Source: Google Earth Image

Graphical Scale:

0 100 200 300 400M



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HAUL ROAD MAP OF THE PROJECT SITE

Legend

- Project Site
- Houl Road
- Metalled Road

Project:PO_CH_HG_LJ_56
PO_CH_HG_LJ_56A
PO_CH_HG_LJ_57-58
PO_CH_HG_LJ_59
Lilajan River
Dist-Chatra

Source: Google Earth Image

Graphical Scale:

0 500 1Km

ANNEXURE-J

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



कार्यालय, जिला मत्स्य पदाधिकारी–सह–मुख्य कार्यपालक पदाधिकारी, चतरा।

पत्रांक 131 /

प्रेषक : जिला मत्स्य पदाधिकारी–सह–
मुख्य कार्यपालक पदाधिकारी
चतरा।

सेवा में,

- जिला खनन पदाधिकारी,
  चतरा।
- सहायक निदेशक, भुतत्व
  जिला भूतात्विक कार्यालय,
  हजारीबाग।

मत्स्य / चतरा, दिनांक 06.02.2023 /

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

प्रसंग : आपका पत्रांक : 97 खनन / चतरा, दिनांक : 01.02.2023 एवं जि०भू०का०–24, हजारीबाग, दिनांक – 02.02.2023

महाशय,

उपरोक्त प्रसंगाधिन विषयक संबंध मे सूचित करना है कि चतरा जिले में जलीय जीव / मछलियाँ पाई जाती है, जो निम्न है। जैसे चेलवा, पोठिया, नेटा, गरैय, मांगुर, कवई, पत्थलचट्टा, डोरी, चिंगरी, केकड़ा, मृगल, रेहूँ, कतला, बोआरी, एवं टेंगरा आदि।

विश्वासभाजन

01.02.23

जिला मत्स्य पदाधिकारी–सह–
मुख्य कार्यपालक पदाधिकारी
चतरा।

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ANNEXURE-K

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



District Mining Office, Chatra

Pre monsoon Chatra				
S L No	Sand Bar_Code	RL (m) Approx.	Area in sq.m. Approx.	Sand Volume in M. Cum Approx.
Estimation of Sand Resources in Pre-monsoon period of Marhar River				
1	PRE_CH_PR_MH_01	190	52620.64896	0.053
2	PRE_CH_PR_MH_02	191	17735.45919	0.018
3	PRE_CH_PR_MH_03	192	17768.69863	0.018
4	PRE_CH_PR_MH_04	194	11889.32237	0.012
5	PRE_CH_PR_MH_05	194	73043.01386	0.073
6	PRE_CH_PR_MH_06	197	11579.29996	0.012
7	PRE_CH_PR_MH_07	199	5167.476697	0.005
8	PRE_CH_PR_MH_08	199	5531.076966	0.006
9	PRE_CH_PR_MH_09	201	11365.86624	0.011
10	PRE_CH_PR_MH_10	203	7689.32527	0.008
11	PRE_CH_PR_MH_11	205	5985.717268	0.006
12	PRE_CH_PR_MH_12	206	1318.798109	0.001
13	PRE_CH_PR_MH_13	206	2744.764115	0.003
14	PRE_CH_PR_MH_14	207	6542.94388	0.007
15	PRE_CH_PR_MH_15	207	3820.697185	0.004
16	PRE_CH_PR_MH_16	206	6676.392777	0.007
17	PRE_CH_PR_MH_17	208	2076.91567	0.002
18	PRE_CH_PR_MH_18	209	15036.81235	0.015
19	PRE_CH_PR_MH_19	214	4516.302627	0.005
20	PRE_CH_PR_MH_20	215	2694.703095	0.003
21	PRE_CH_PR_MH_21	216	4987.206071	0.005
22	PRE_CH_PR_MH_22	217	7312.737688	0.007
23	PRE_CH_PR_MH_23	217	1291.738555	0.001
24	PRE_CH_PR_MH_24	218	1306.609367	0.001
25	PRE_CH_PR_MH_25	219	8173.740313	0.008
26	PRE_CH_PR_MH_26	221	1853.906343	0.002
27	PRE_CH_PR_MH_27	222	1126.44629	0.001
28	PRE_CH_PR_MH_28	222	1234.976808	0.001
29	PRE_CH_PR_MH_29	223	2564.934211	0.003
30	PRE_CH_PR_MH_30	223	1638.590504	0.002
31	PRE_CH_PR_MH_31	225	2949.156108	0.003

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32	PRE_CH_PR_MH_32	224	3427.13119	0.003
33	PRE_CH_PR_MH_33	226	10589.87201	0.011
34	PRE_CH_PR_MH_34	229	1815.350139	0.002
35	PRE_CH_PR_MH_35	230	1244.378068	0.001
36	PRE_CH_PR_MH_36	231	1727.403595	0.002
37	PRE_CH_PR_MH_37	233	261.906253	0
38	PRE_CH_PR_MH_38	206	11646.41435	0.012
39	PRE_CH_PR_MH_39	207	21513.41643	0.022
40	PRE_CH_PR_MH_40	207	24551.10812	0.025
41	PRE_CH_PR_MH_41	207	17241.64671	0.017
42	PRE_CH_PR_MH_42	208	5783.21315	0.006
43	PRE_CH_PR_MH_43	208	17013.16077	0.017
44	PRE_CH_PR_MH_44	209	5241.705222	0.005
45	PRE_CH_PR_MH_45	211	192811.7783	0.193
46	PRE_CH_PR_MH_46	214	43261.83988	0.043
47	PRE_CH_PR_MH_47	216	11230.65741	0.011
48	PRE_CH_PR_MH_48	216	170179.1919	0.17
49	PRE_CH_PR_MH_49	219	184592.6435	0.185
50	PRE_CH_PR_MH_50	222	48642.70466	0.049
51	PRE_CH_PR_MH_51	225	84004.28935	0.084
52	PRE_CH_PR_MH_52	234	14538.52631	0.015
53	PRE_CH_PR_MH_53	232	86874.02205	0.087
54	PRE_CH_PR_MH_54	236	83835.02848	0.084
55	PRE_CH_PR_MH_55	237	131699.2702	0.132
56	PRE_CH_PR_MH_56	239	18781.87163	0.019
57	PRE_CH_PR_MH_57	240	10535.70612	0.011
58	PRE_CH_PR_MH_58	242	3303.564107	0.003
59	PRE_CH_PR_MH_59	241	3881.356494	0.004
60	PRE_CH_PR_MH_60	242	10691.75536	0.011
61	PRE_CH_PR_MH_61	245	10526.58487	0.011
62	PRE_CH_PR_MH_62	246	35217.88833	0.035
63	PRE_CH_PR_MH_63	246	9678.745262	0.01
64	PRE_CH_PR_MH_64	247	46144.38694	0.046
65	PRE_CH_PR_MH_65	249	21096.10048	0.021
66	PRE_CH_PR_MH_66	250	22486.81254	0.022
67	PRE_CH_PR_MH_67	251	9407.867878	0.009
68	PRE_CH_PR_MH_68	254	16038.44036	0.016
69	PRE_CH_PR_MH_69	255	25954.7542	0.026
70	PRE_CH_PR_MH_70	259	13930.14834	0.014
71	PRE_CH_PR_MH_71	259	9098.538746	0.009
72	PRE_CH_PR_MH_72	259	6584.657356	0.007
73	PRE_CH_KD_MH_73	261	35676.03763	0.036



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74	PRE_CH_KD_MH_74	264	7159.27791	0.007
75	PRE_CH_PR_MH_74	242	62010.40747	0.062
			1852175.837	1.852
Estimation of Sand Resources in Pre monsoon period of Lilajan River				
1	PRE_CH_HG_LJ_01	161	395657.4161	0.396
2	PRE_CH_HG_LJ_02	170	95795.74684	0.096
3	PRE_CH_HG_LJ_03	172	175761.8268	0.176
4	PRE_CH_HG_LJ_04	174	591306.6357	0.591
5	PRE_CH_HG_LJ_05	181	3844.325799	0.004
6	PRE_CH_HG_LJ_06	182	10267.33576	0.01
7	PRE_CH_HG_LJ_07	182	5900.68748	0.006
8	PRE_CH_HG_LJ_08	183	3170.080621	0.003
9	PRE_CH_HG_LJ_09	183	1517.843193	0.002
10	PRE_CH_HG_LJ_10	184	14744.26934	0.015
11	PRE_CH_HG_LJ_11	184	12685.70168	0.013
12	PRE_CH_HG_LJ_12	189	14292.67008	0.014
13	PRE_CH_HG_LJ_13	180	65894.18081	0.066
14	PRE_CH_HG_LJ_14	181	100843.5272	0.101
15	PRE_CH_HG_LJ_15	182	33944.9481	0.034
16	PRE_CH_HG_LJ_16	183	59705.22374	0.06
17	PRE_CH_HG_LJ_17	183	164141.4067	0.164
18	PRE_CH_HG_LJ_18	187	37915.6908	0.038
19	PRE_CH_HG_LJ_19	189	94515.64402	0.095
20	PRE_CH_HG_LJ_20	189	55738.37177	0.056
21	PRE_CH_HG_LJ_21	199	13845.75687	0.014
22	PRE_CH_HG_LJ_22	200	30607.00799	0.031
23	PRE_CH_HG_LJ_23	203	14266.74876	0.014
24	PRE_CH_HG_LJ_24	202	11454.70219	0.011
25	PRE_CH_HG_LJ_25	205	6072.110229	0.006
26	PRE_CH_HG_LJ_26	209	12477.6223	0.012
27	PRE_CH_HG_LJ_27	210	5006.661063	0.005
28	PRE_CH_HG_LJ_28	211	2232.988773	0.002
29	PRE_CH_PR_LJ_29	221	5060.553927	0.005
30	PRE_CH_HG_LJ_30	188	59620.83655	0.06
31	PRE_CH_HG_LJ_31	190	177508.4813	0.178
32	PRE_CH_HG_LJ_32	191	47269.83911	0.047
33	PRE_CH_HG_LJ_33	192	38552.8896	0.039
34	PRE_CH_HG_LJ_34	194	43525.89677	0.044
35	PRE_CH_HG_LJ_35	196	7836.697068	0.008
36	PRE_CH_HG_LJ_36	195	158694.6557	0.159

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37	PRE_CH_HG_LJ_37	196	424356.5979	0.424
38	PRE_CH_CH_LJ_38	199	22446.26649	0.022
39	PRE_CH_CH_LJ_39	199	69242.28979	0.069
40	PRE_CH_CH_LJ_40	201	30628.53573	0.031
41	PRE_CH_CH_LJ_41	206	22556.19182	0.023
42	PRE_CH_CH_LJ_42	209	37117.66324	0.037
43	PRE_CH_CH_LJ_43	211	283949.0121	0.284
44	PRE_CH_CH_LJ_44	212	66497.27743	0.066
45	PRE_CH_CH_LJ_45	217	28191.17623	0.028
46	PRE_CH_CH_LJ_46	282	7360.235786	0.007
47	PRE_CH_CH_LJ_47	286	13447.16947	0.013
48	PRE_CH_HG_LJ_48	196	4013.955009	0.004
49	PRE_CH_HG_LJ_49	199	4504.598444	0.005
50	PRE_CH_HG_LJ_50	201	11320.53373	0.011
51	PRE_CH_HG_LJ_51	202	2390.213509	0.002
52	PRE_CH_HG_LJ_52	200	7786.913233	0.008
53	PRE_CH_HG_LJ_53	201	45827.87968	0.046
54	PRE_CH_HG_LJ_54	203	47054.3656	0.047
55	PRE_CH_CH_LJ_55	205	9614.659981	0.01
56	PRE_CH_CH_LJ_56	207	63359.70535	0.063
57	PRE_CH_CH_LJ_57	210	7645.612906	0.008
58	PRE_CH_CH_LJ_58	209	5060.995399	0.005
59	PRE_CH_CH_LJ_59	211	49895.4703	0.05
60	PRE_CH_CH_LJ_60	212	6349.683088	0.006
61	PRE_CH_CH_LJ_61	211	2496.223271	0.002
62	PRE_CH_CH_LJ_62	212	4003.87637	0.004
			3848794.08	**3.849**
Estimation of Sand Resources in Pre monsoon period of Mohana River				
1	PRE_CH_KC_MA_01	373	12114.12774	0.012
2	PRE_CH_IK_MA_02	374	20399.99199	0.02
3	PRE_CH_IK_MA_03	375	21870.3675	0.022
4	PRE_CH_IK_MA_04	375	19664.82353	0.02
5	PRE_CH_IK_MA_05	375	7607.199115	0.008
6	PRE_CH_IK_MA_06	376	33356.12757	0.033
7	PRE_CH_IK_MA_07	376	16402.79508	0.016
8	PRE_CH_IK_MA_08	379	18371.10047	0.018
9	PRE_CH_IK_MA_09	379	26915.46688	0.027
10	PRE_CH_IK_MA_10	389	59254.52109	0.059
11	PRE_CH_IK_MA_11	388	32519.53375	0.033
12	PRE_CH_IK_MA_12	389	11719.50518	0.012
13	PRE_CH_IK_MA_13	389	12877.01221	0.013

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14	PRE_CH_IK_MA_14	390	12432.77237	0.012
15	PRE_CH_IK_MA_15	391	13300.7157	0.013
16	PRE_CH_IK_MA_16	392	15794.20095	0.016
17	PRE_CH_IK_MA_17	393	7283.767133	0.007
18	PRE_CH_IK_MA_18	393	9737.423758	0.01
19	PRE_CH_IK_MA_19	392	14742.72373	0.015
20	PRE_CH_IK_MA_20	396	12016.89471	0.012
21	PRE_CH_IK_MA_21	395	25283.94577	0.025
22	PRE_CH_IK_MA_22	396	71835.21239	0.072
23	PRE_CH_IK_MA_23	397	17301.64068	0.017
24	PRE_CH_IK_MA_24	398	81630.82609	0.082
25	PRE_CH_IK_MA_25	400	4116.808752	0.004
26	PRE_CH_IK_MA_26	401	17332.79615	0.017
27	PRE_CH_IK_MA_27	400	16639.60436	0.017
28	PRE_CH_IK_MA_28	401	9573.461069	0.01
29	PRE_CH_IK_MA_29	402	52765.36791	0.053
30	PRE_CH_IK_MA_30	403	18254.40858	0.018
31	PRE_CH_GD_MA_31	403	12901.83961	0.013
32	PRE_CH_GD_MA_32	404	7571.108811	0.008
33	PRE_CH_GD_MA_33	405	18877.54026	0.019
34	PRE_CH_GD_MA_34	406	4659.637386	0.005
35	PRE_CH_GD_MA_35	405	4805.961668	0.005
36	PRE_CH_GD_MA_36	403	21752.41559	0.022
37	PRE_CH_GD_MA_37	406	4559.210622	0.005
38	PRE_CH_GD_MA_38	406	3031.681469	0.003
39	PRE_CH_IK_MA_39	406	7408.365921	0.007
40	PRE_CH_IK_MA_40	408	60221.35169	0.06
41	PRE_CH_GD_MA_41	433	46956.97527	0.047
42	PRE_CH_GD_MA_42	435	17654.02038	0.018
43	PRE_CH_GD_MA_43	447	34060.51826	0.034
44	PRE_CH_GD_MA_44	448	45056.28742	0.045
45	PRE_CH_GD_MA_45	449	7294.1674	0.007
46	PRE_CH_PG_MA_46	452	22860.13895	0.023
47	PRE_CH_PG_MA_47	453	13522.49555	0.014
48	PRE_CH_PG_MA_48	455	10663.57814	0.011
49	PRE_CH_PG_MA_49	457	16708.15485	0.017
50	PRE_CH_PG_MA_50	459	17087.86289	0.017
51	PRE_CH_PG_MA_51	460	50168.48079	0.05
52	PRE_CH_PG_MA_52	460	9673.870171	0.01
53	PRE_CH_PG_MA_53	462	5123.46491	0.005
54	PRE_CH_PG_MA_54	463	4903.058905	0.005

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55	PRE_CH_PG_MA_55	468	23029.30905	0.023
56	PRE_CH_PG_MA_56	477	2113.222299	0.002
57	PRE_CH_PG_MA_57	477	2814.513485	0.003
58	PRE_CH_PG_MA_58	483	1609.485184	0.002
59	PRE_CH_PG_MA_59	482	4549.70938	0.005
60	PRE_CH_PG_MA_60	482	4096.46841	0.004
61	PRE_CH_PG_MA_61	481	2664.219088	0.003
62	PRE_CH_SR_MA_62	488	3670.802208	0.004
63	PRE_CH_SR_MA_63	489	9231.1893	0.009
64	PRE_CH_PG_MA_64	463	13891.56235	0.014
65	PRE_CH_PG_MA_65	467	8216.036304	0.008
66	PRE_CH_PG_MA_66	468	2902.737455	0.003
67	PRE_CH_PG_MA_67	470	5330.18417	0.005
68	PRE_CH_PG_MA_68	471	4036.998382	0.004
69	PRE_CH_PG_MA_69	480	25330.01987	0.025
70	PRE_CH_PG_MA_70	482	5957.410051	0.006
71	PRE_CH_PG_MA_71	483	2114.628877	0.002
72	PRE_CH_PG_MA_72	482	816.103013	0.001
73	PRE_CH_PG_MA_73	484	4232.211815	0.004
74	PRE_CH_PG_MA_74	485	7791.928703	0.008
75	PRE_CH_PG_MA_75	487	9137.947132	0.009
76	PRE_CH_PG_MA_76	488	4896.419986	0.005
77	PRE_CH_PG_MA_77	490	1951.185495	0.002
78	PRE_CH_PG_MA_78	492	2655.316496	0.003
79	PRE_CH_PG_MA_79	495	5527.98473	0.006
80	PRE_CH_PG_MA_80	496	4425.686254	0.004
			1303630.61	**1.3**

Estimation of Sand Resources in Pre monsoon period of Garhi River

1	PRE_CH_KC_GH_01	380	12311.65242	0.012
2	PRE_CH_KC_GH_02	380	8207.594538	0.008
3	PRE_CH_KC_GH_03	379	6115.18039	0.006
4	PRE_CH_KC_GH_04	381	4741.813461	0.005
5	PRE_CH_KC_GH_05	380	2676.557952	0.003
6	PRE_CH_KC_GH_06	381	3843.682017	0.004
7	PRE_CH_KC_GH_07	381	2749.127173	0.003
8	PRE_CH_KC_GH_08	381	5327.442781	0.005
9	PRE_CH_KC_GH_09	383	34971.79956	0.035
10	PRE_CH_KC_GH_10	384	7188.005062	0.007
11	PRE_CH_KC_GH_11	382	19829.33976	0.02
12	PRE_CH_KC_GH_12	386	18804.43996	0.019
13	PRE_CH_KC_GH_13	388	4310.756322	0.004

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14	PRE_CH_KC_GH_14	390	5613.033345	0.006
15	PRE_CH_KC_GH_15	390	4888.515734	0.005
16	PRE_CH_KC_GH_16	391	3126.83069	0.003
17	PRE_CH_KC_GH_17	392	7461.250707	0.007
18	PRE_CH_KC_GH_18	392	6455.861967	0.006
19	PRE_CH_KC_GH_19	393	8149.382796	0.008
20	PRE_CH_KC_GH_20	394	13681.28976	0.014
21	PRE_CH_KC_GH_21	396	8630.590398	0.009
22	PRE_CH_KC_GH_22	398	3370.654115	0.003
23	PRE_CH_GD_GH_23	405	8773.200046	0.009
24	PRE_CH_GD_GH_24	409	11521.03997	0.012
25	PRE_CH_GD_GH_25	407	2927.927504	0.003
26	PRE_CH_GD_GH_26	403	4753.04121	0.005
27	PRE_CH_GD_GH_27	408	3477.459995	0.003
28	PRE_CH_GD_GH_28	409	7942.338105	0.008
29	PRE_CH_GD_GH_29	413	5217.988333	0.005
30	PRE_CH_GD_GH_30	414	6717.626827	0.007
31	PRE_CH_GD_GH_31	413	5006.987459	0.005
32	PRE_CH_GD_GH_32	417	2591.140882	0.003
33	PRE_CH_GD_GH_33	418	6704.173472	0.007
34	PRE_CH_GD_GH_34	418	4811.877866	0.005
35	PRE_CH_GD_GH_35	428	8545.334845	0.009
36	PRE_CH_GD_GH_36	428	2443.972293	0.002
37	PRE_CH_GD_GH_37	430	2798.659616	0.003
38	PRE_CH_GD_GH_38	438	2805.135625	0.003
39	PRE_CH_KC_GH_39	389	1931.972311	0.002
40	PRE_CH_KC_GH_40	390	1929.547451	0.002
			283354.22	**0.28**

Estimation of Sand Resources in Pre monsoon period of Barki River

1	PRE_CH_TD_BI_01	495	3378.445081	0.003
2	PRE_CH_TD_BI_02	493	1378.390454	0.001
3	PRE_CH_TD_BI_03	492	1526.17578	0.002
4	PRE_CH_TD_BI_04	477	6350.555649	0.006
5	PRE_CH_TD_BI_05	475	1401.623702	0.001
6	PRE_CH_TD_BI_06	474	1569.007378	0.002
7	PRE_CH_TD_BI_07	475	1393.922828	0.001
8	PRE_CH_TD_BI_08	474	1604.782684	0.002
9	PRE_CH_TD_BI_09	473	3724.688512	0.004
10	PRE_CH_TD_BI_10	473	2800.662308	0.003
11	PRE_CH_TD_BI_11	473	3134.120293	0.003
12	PRE_CH_TD_BI_12	473	3282.812855	0.003

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13	PRE_CH_TD_BI_13	471	5189.08716	0.005
14	PRE_CH_TD_BI_14	472	2603.220468	0.003
15	PRE_CH_TD_BI_15	474	2569.964217	0.003
16	PRE_CH_TD_BI_16	470	9239.78604	0.009
17	PRE_CH_TD_BI_17	469	7006.177	0.007
18	PRE_CH_TD_BI_18	467	4886.540873	0.005
19	PRE_CH_TD_BI_19	466	7241.643742	0.007
20	PRE_CH_TD_BI_20	466	32314.2552	0.032
21	PRE_CH_TD_BI_21	465	15772.6956	0.016
22	PRE_CH_TD_BI_22	465	28203.06366	0.028
23	PRE_CH_TD_BI_23	464	10662.81125	0.011
24	PRE_CH_TD_BI_24	463	28737.52465	0.029
25	PRE_CH_TD_BI_25	462	25124.64361	0.025
26	PRE_CH_TD_BI_26	461	6567.720777	0.007
27	PRE_CH_TD_BI_27	442	6589.899242	0.007
28	PRE_CH_TD_BI_28	441	6835.486764	0.007
29	PRE_CH_TD_BI_29	440	4619.949633	0.005
30	PRE_CH_TD_BI_30	439	13964.17427	0.014
31	PRE_CH_TD_BI_31	439	9246.648956	0.009
32	PRE_CH_TD_BI_32	429	1703.838695	0.002
33	PRE_CH_TD_BI_33	428	3154.843193	0.003
34	PRE_CH_TD_BI_34	429	2891.930101	0.003
35	PRE_CH_TD_BI_35	427	2402.212407	0.002
36	PRE_CH_TD_BI_36	428	2740.968882	0.003
37	PRE_CH_TD_BI_37	426	3071.255	0.003
38	PRE_CH_TD_BI_38	424	3054.063536	0.003
39	PRE_CH_TD_BI_39	423	4988.518485	0.005
40	PRE_CH_TD_BI_40	422	4817.533647	0.005
41	PRE_CH_TD_BI_41	422	2809.928026	0.003
42	PRE_CH_TD_BI_42	422	4112.74575	0.004
43	PRE_CH_TD_BI_43	423	2206.135124	0.002
44	PRE_CH_TD_BI_44	421	1259.477559	0.001
45	PRE_CH_TD_BI_45	420	6164.669006	0.006
46	PRE_CH_TD_BI_46	421	3908.725665	0.004
47	PRE_CH_TD_BI_47	418	6160.57172	0.006
48	PRE_CH_TD_BI_48	421	15539.18144	0.016
49	PRE_CH_TD_BI_49	416	8937.776361	0.009
50	PRE_CH_TD_BI_50	417	23476.47935	0.023
51	PRE_CH_TD_BI_51	416	45438.66282	0.045
52	PRE_CH_TD_BI_52	416	147797.1471	0.148
53	PRE_CH_TD_BI_53	412	17736.01907	0.018
			573293.16	**0.57**

Estimation of Sand Resources in Pre monsoon period of Damodar River



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ANNEXURE-L

(Undertaking 9.3)



1	PRE_CH_TD_DA_01	442	4627.596165	0.005
2	PRE_CH_TD_DA_02	441	6619.927895	0.007
3	PRE_CH_TD_DA_03	439	2660.598153	0.003
4	PRE_CH_TD_DA_04	438	8779.939864	0.009
5	PRE_CH_TD_DA_05	437	23978.17165	0.024
6	PRE_CH_TD_DA_06	438	4937.94594	0.005
7	PRE_CH_TD_DA_07	434	4902.110158	0.005
8	PRE_CH_TD_DA_08	433	4298.585414	0.004
9	PRE_CH_TD_DA_09	434	5904.067556	0.006
10	PRE_CH_TD_DA_10	432	23668.39625	0.024
11	PRE_CH_TD_DA_11	428	15036.95424	0.015
12	PRE_CH_TD_DA_12	427	10350.62022	0.01
13	PRE_CH_TD_DA_13	427	8464.613729	0.008
14	PRE_CH_TD_DA_14	425	79250.96974	0.079
15	PRE_CH_TD_DA_15	423	102096.0536	0.102
16	PRE_CH_TD_DA_16	419	33284.05597	0.033
17	PRE_CH_TD_DA_17	419	37936.07774	0.038
18	PRE_CH_TD_DA_18	419	25744.57591	0.026
19	PRE_CH_TD_DA_19	418	20539.80091	0.021
20	PRE_CH_TD_DA_20	415	30336.03808	0.03
21	PRE_CH_TD_DA_21	413	36819.46502	0.037
22	PRE_CH_TD_DA_22	412	7544.290679	0.008
23	PRE_CH_TD_DA_23	411	25103.73081	0.025
24	PRE_CH_TD_DA_24	410	7192.753533	0.007
			530077.34	**0.53**

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ANNEXURE-L

(Undertaking 9.3)



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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, (1) Hunterganj-(letter No. 1048 dt 30.12.22 & 217 dt 11.03.23) (2) Pratappur-(letter No. 154 dt 11.03.23) (3) Kunda-(E-mail dt 11.03.23 & lt no. 167 dt 11.03.23) (4) Lawalaung-(letter No. 67 dt 11.03.23) (5) Chatra-(letter No. 239 dt 11.03.23) (6) Itkhori-(E-mail dt 13.03.23) (7) Gidhaur-(letter No. 86 dt 11.03.23) (8) Pathalgadda-(letter No. 91 dt 11.03.23), (9) Simaria-(letter No. 128 dt 11.03.23), (10) Tandwa-(letter No. 348 dt 11.03.23 & dt 14.03.23) (11) Kanhachatti- (letter No. 124 dt 11.03.23) and (12) Mayurhund-(letter No. 119 dt 11.03.23) (attached as annexure f), it is verified that all identified sandghats are situated in Chatra District.

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Chatra

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Plate A

(Plate showing sandbars in pre-monsoon)

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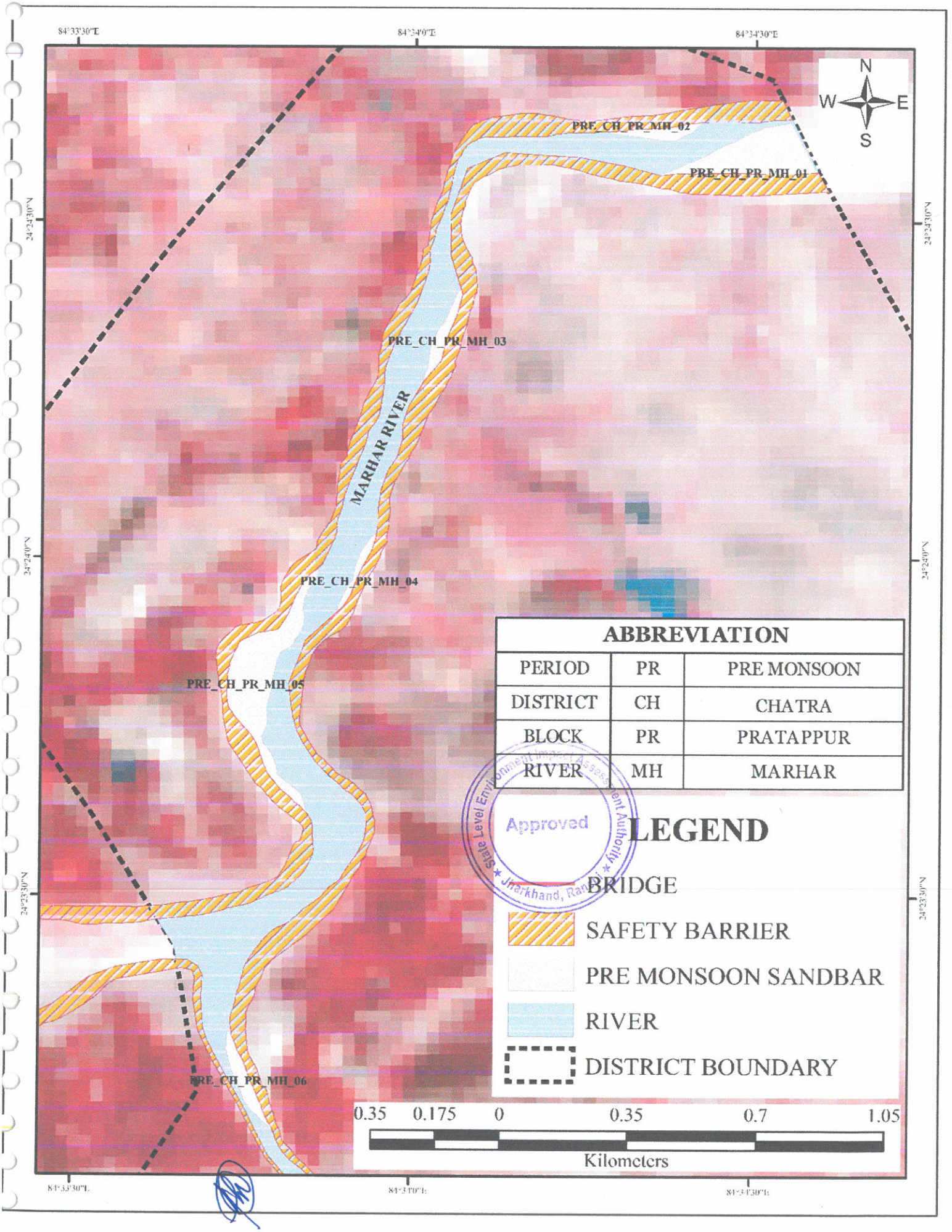
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PRE_CH_PR_MH_02
PRE_CH_PR_MH_01
PRE_CH_PR_MH_03
MARHAR RIVER
PRE_CH_PR_MH_04
PRE_CH_PR_MH_05
PRE_CH_PR_MH_06
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK PR PRATAPPUR
RIVER MH MARHAR
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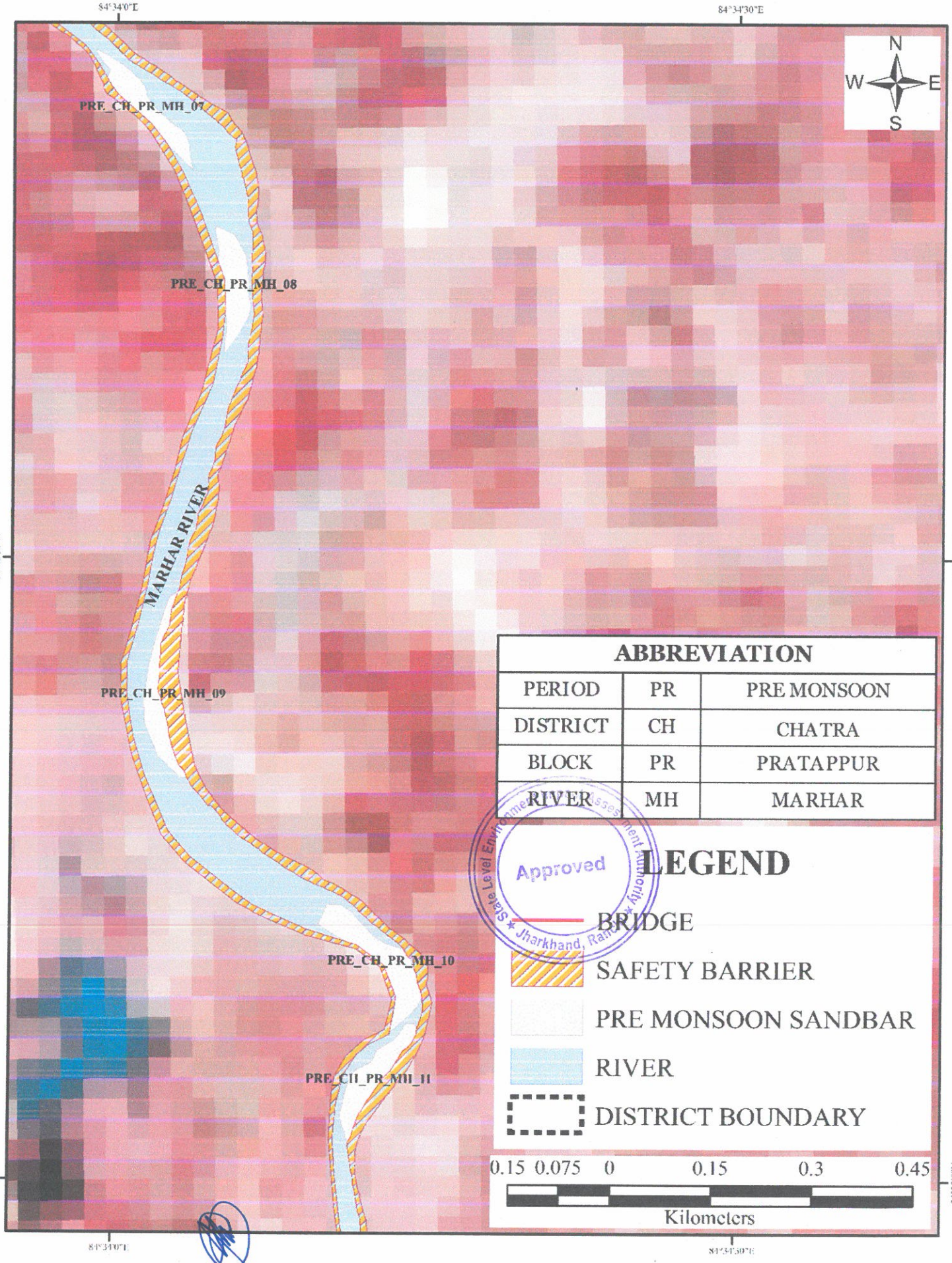
Jharkhand, Ranchi
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
0.35 0.175 0 0.35 0.7 1.05
Kilometers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PRE_CH_PR_MH_07
PRE_CH_PR_MH_08
MARHAR RIVER
PRE_CH_PR_MH_09
PRE_CH_PR_MH_10
PRE_CH_PR_MH_11
24°22'30"N
24°22'0"N
ABBREVIATION
PERIOD | PR | PRE MONSOON
DISTRICT | CH | CHATRA
BLOCK | PR | PRATAPPUR
RIVER | MH | MARHAR
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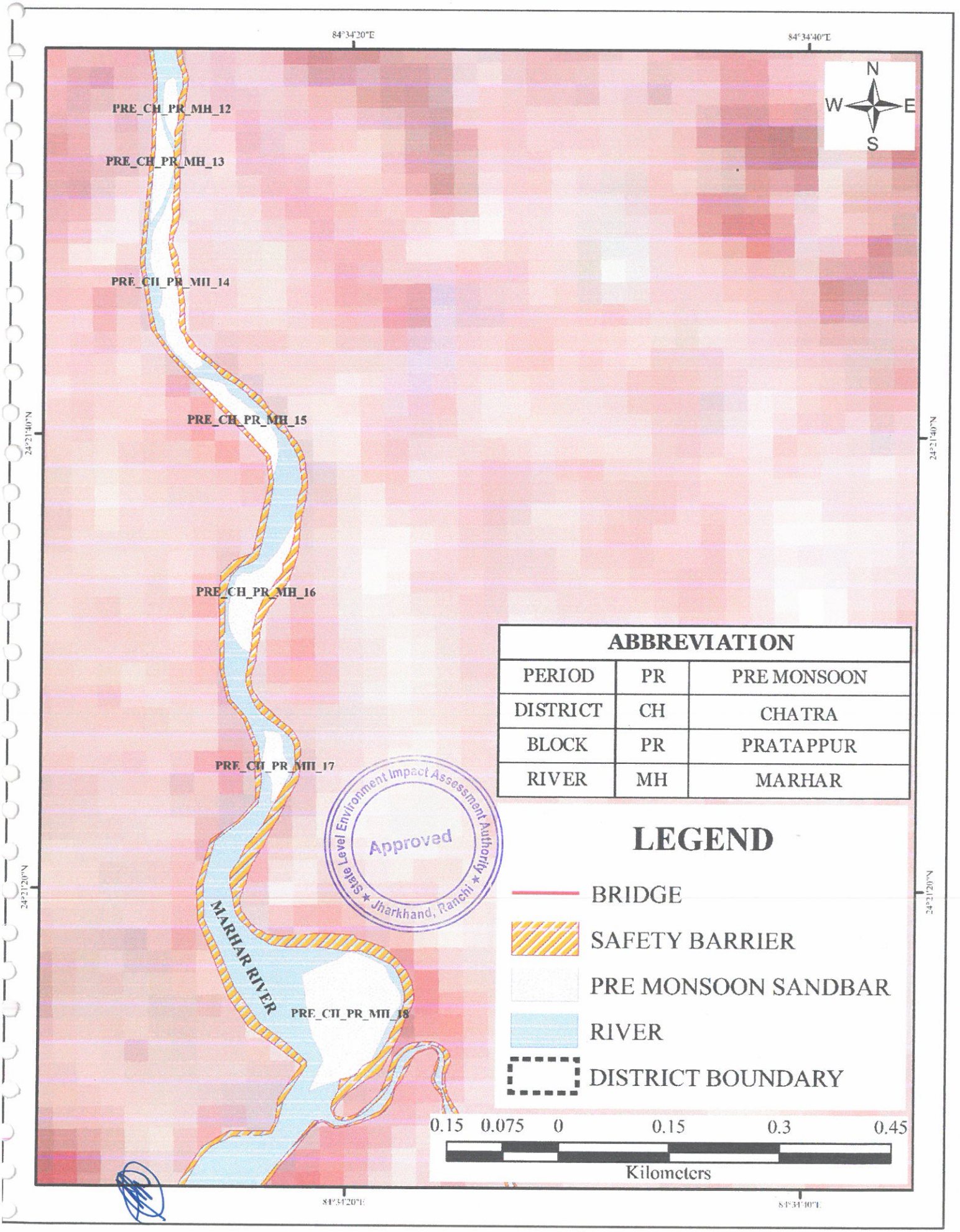
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
0.15 0.075 0 0.15 0.3 0.45
Kilometers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PRE_CH_PR_MH_16
PRE_CH_PR_MH_17
PRE_CH_PR_MH_18
MARHAR RIVER
24°21'40"N
24°21'20"N
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK PR PRATAPPUR
RIVER MH MARHAR
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
0.15 0.075 0 0.15 0.3 0.45
Kilometers
State Level Environment Impact Assessment Authority
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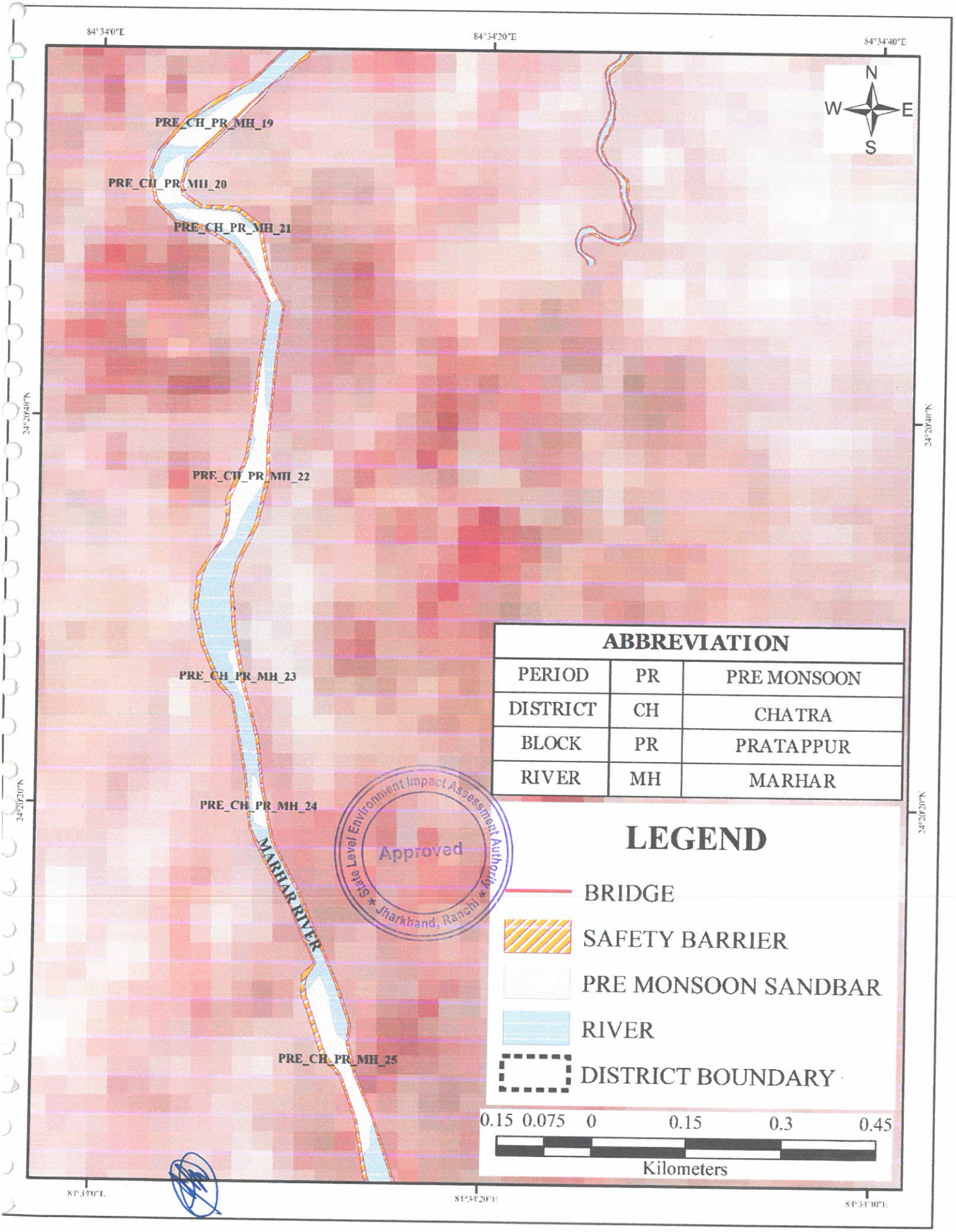
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PRE_CH_PR_MH_22
PRE_CH_PR_MH_23
PRE_CH_PR_MH_24
PRE_CH_PR_MH_25
MARHAR RIVER
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK PR PRATAPPUR
RIVER MH MARHAR
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
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Kilometers
State Level Environment Impact Assessment Authority
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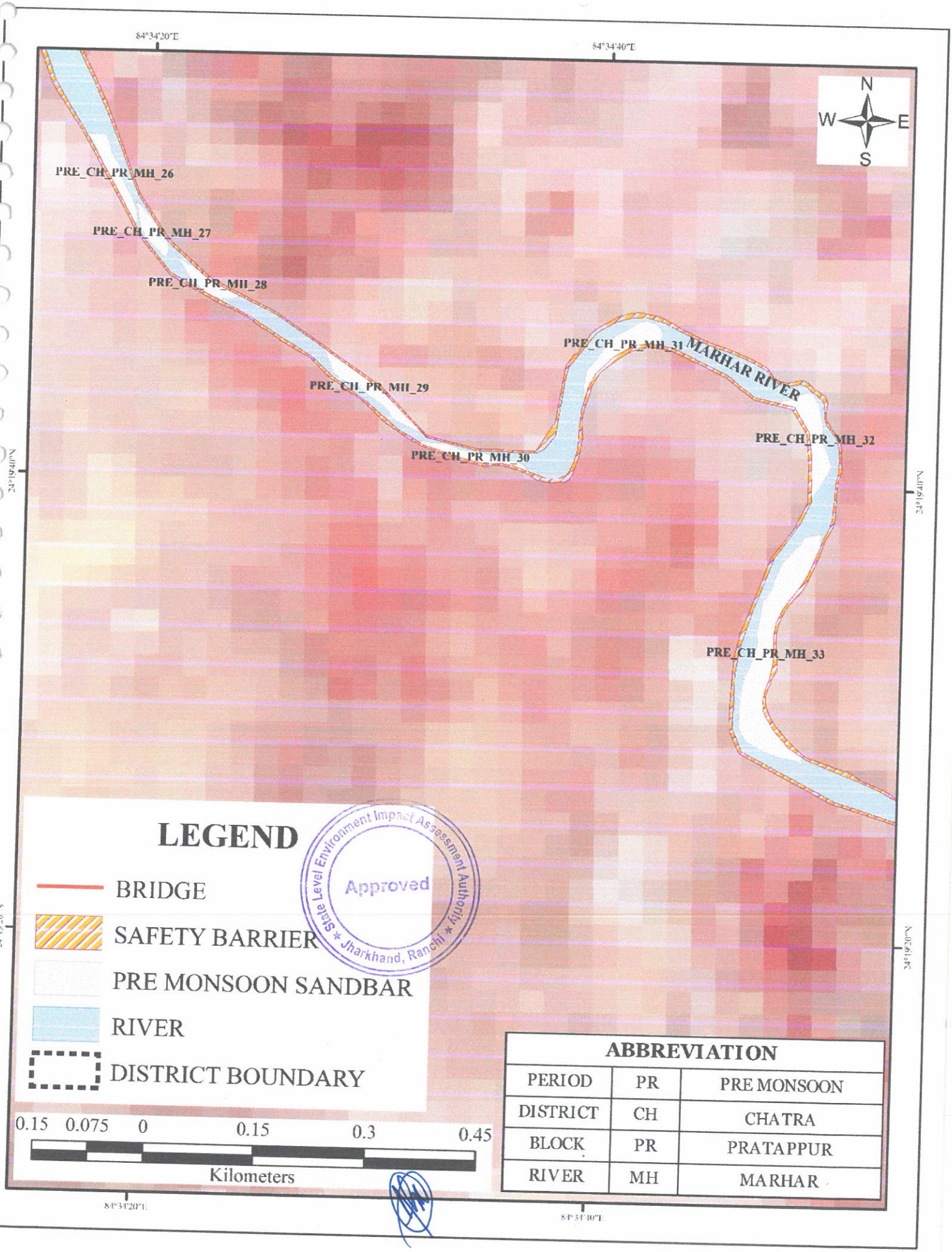
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PRE_CH_PR_MH_31
MARHAR RIVER
PRE_CH_PR_MH_32
PRE_CH_PR_MH_33
24°19'40"N
24°19'20"N
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
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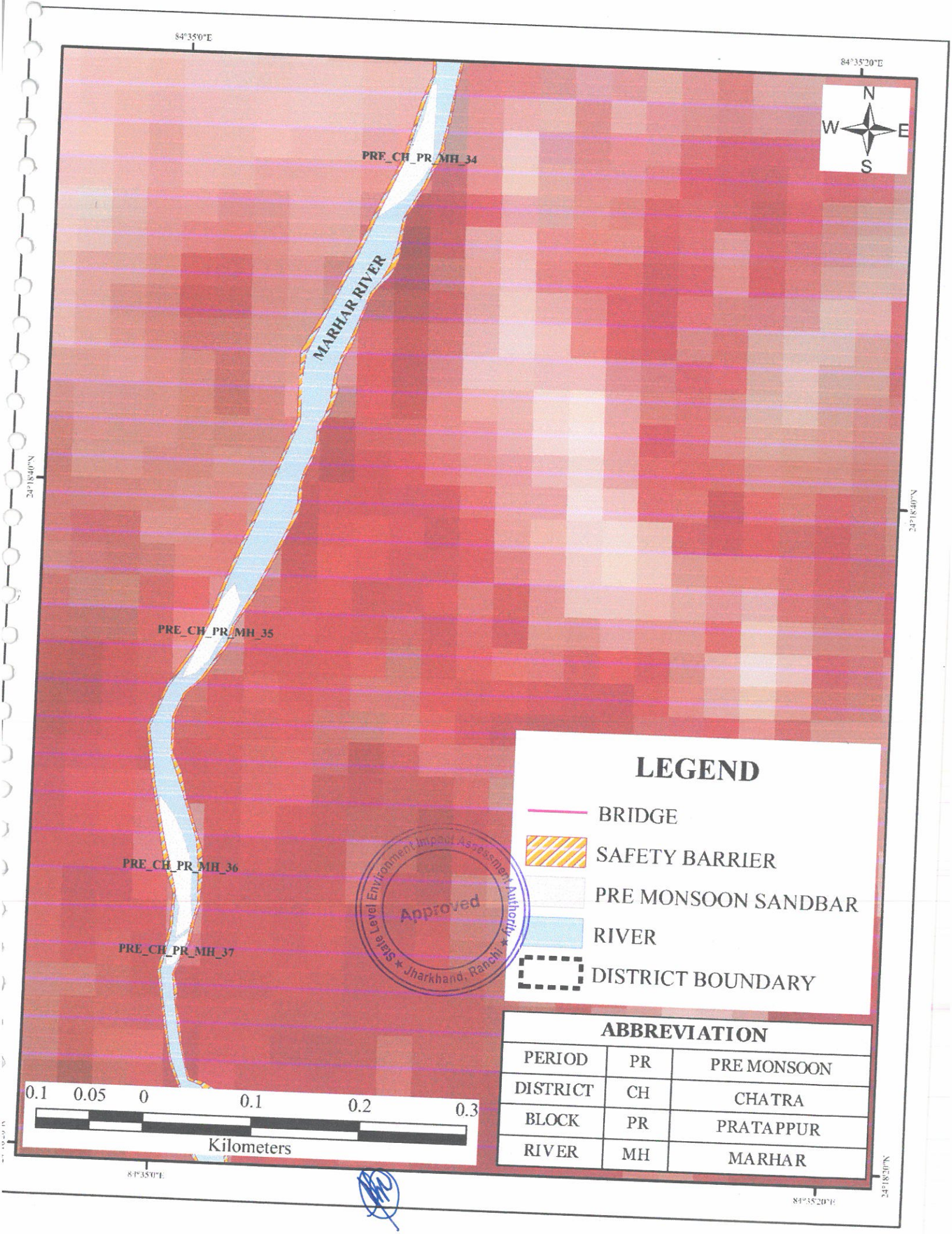
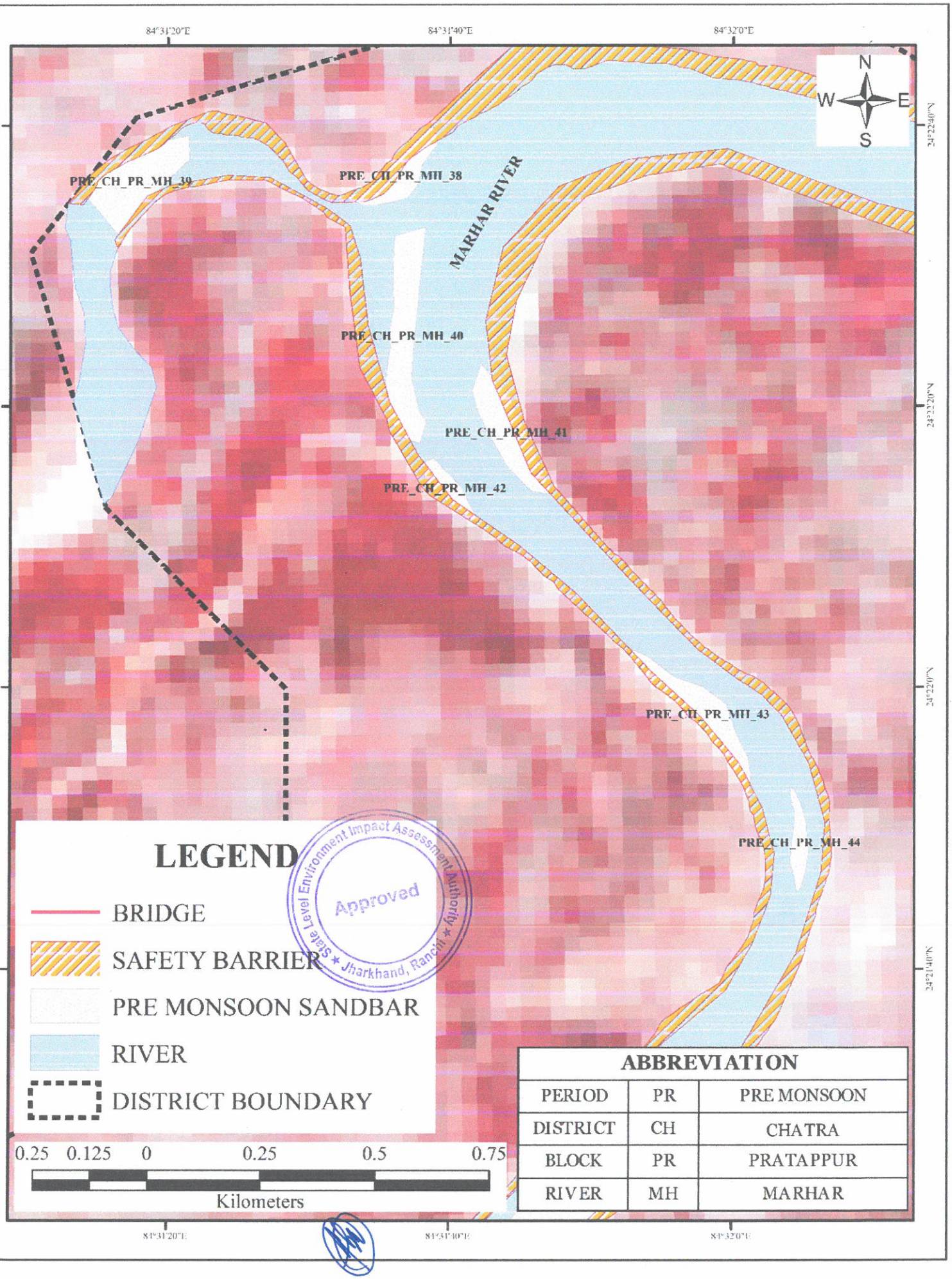
0.15 0.075 0 0.15 0.3 0.45
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK PR PRATAPPUR
RIVER MH MARHAR



ABBREVIATION		
PERIOD	PR	PRE MONSOON
DISTRICT	CH	CHATRA
BLOCK	PR	PRATAPPUR
RIVER	MH	MARHAR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PRE_CH_PR_MH_39
PRE_CH_PR_MH_38
MARHAR RIVER
PRE_CH_PR_MH_40
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LEGEND
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PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
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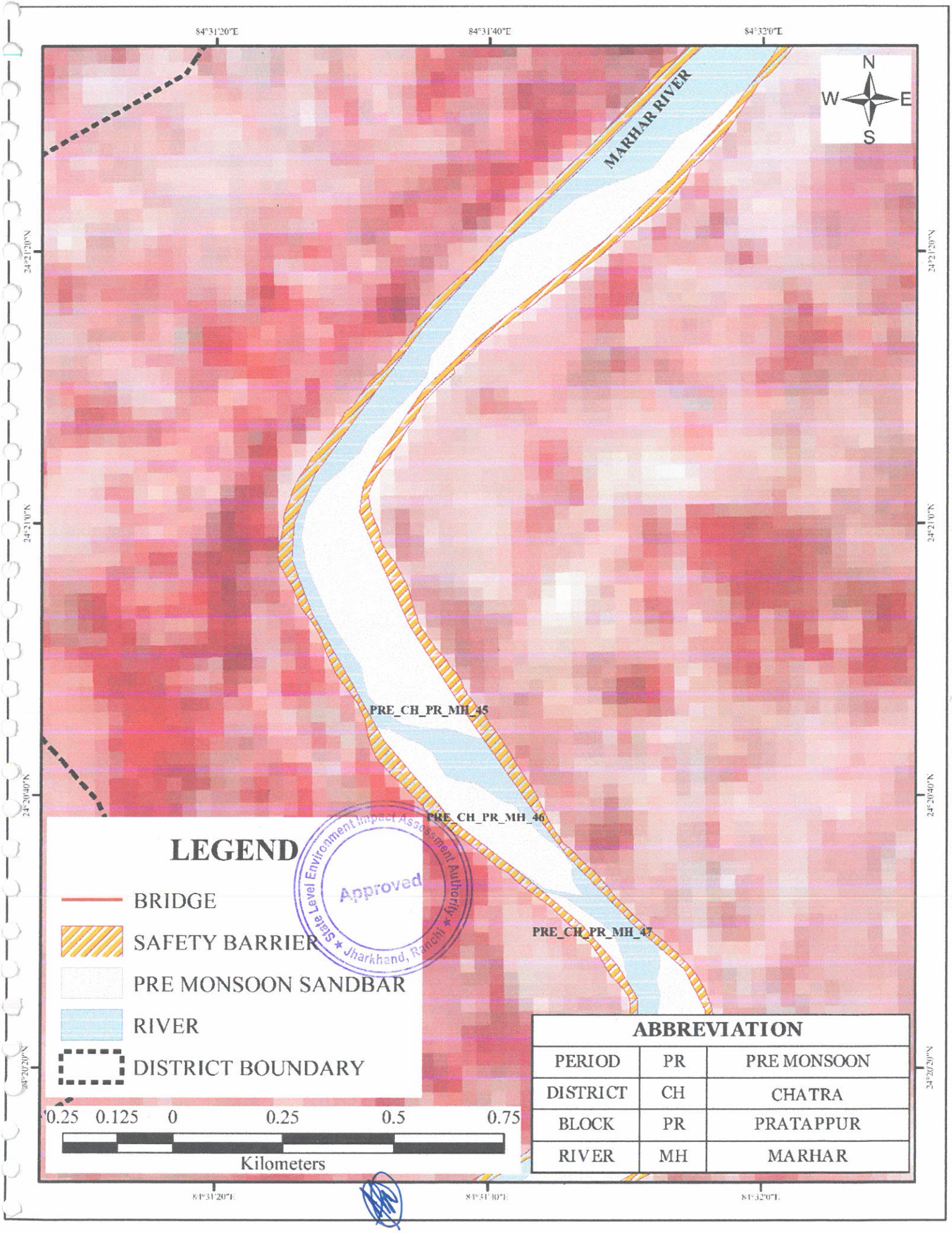
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK PR PRATAPPUR
RIVER MH MARHAR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MARHAR RIVER
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LEGEND
BRIDGE
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PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
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Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
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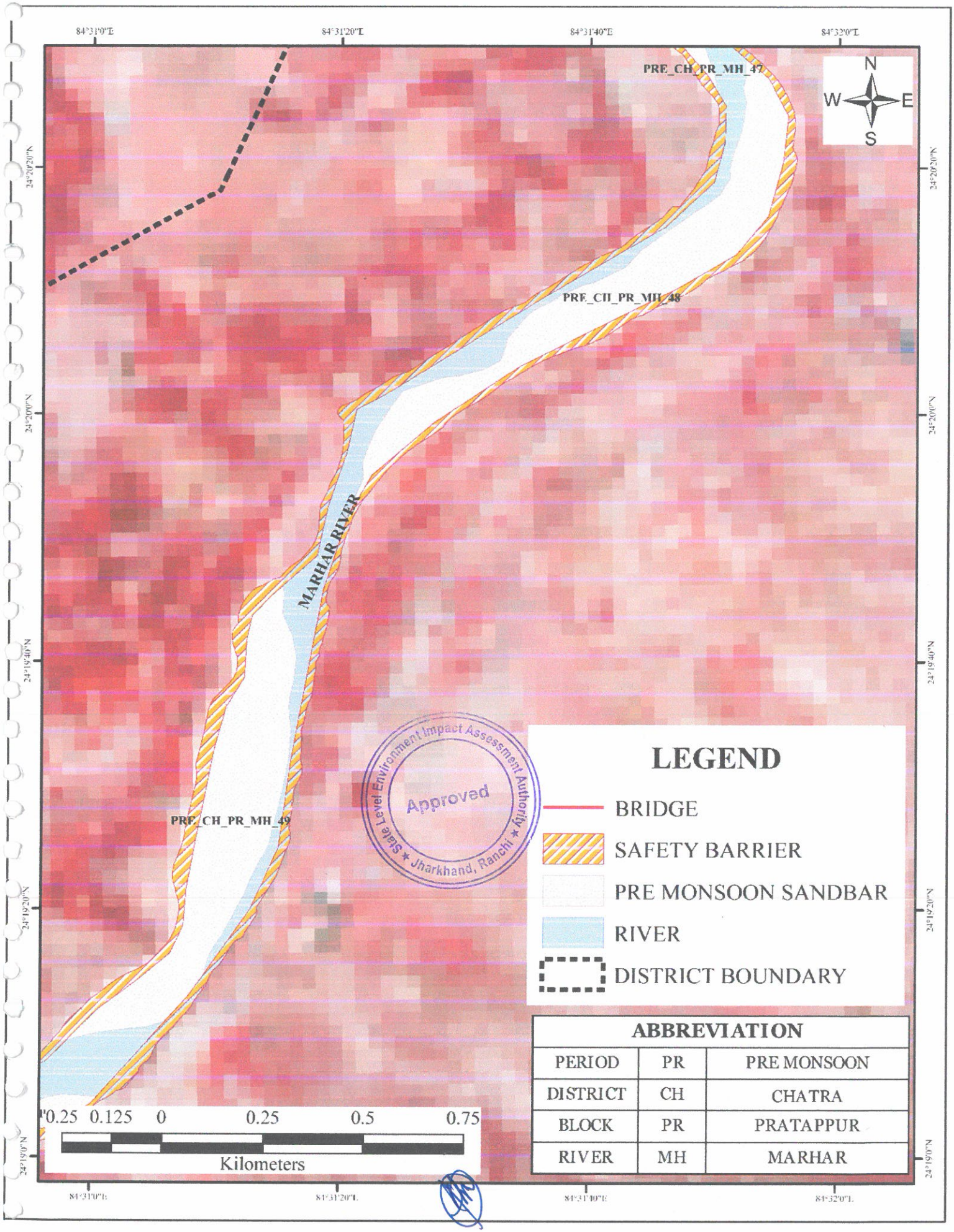
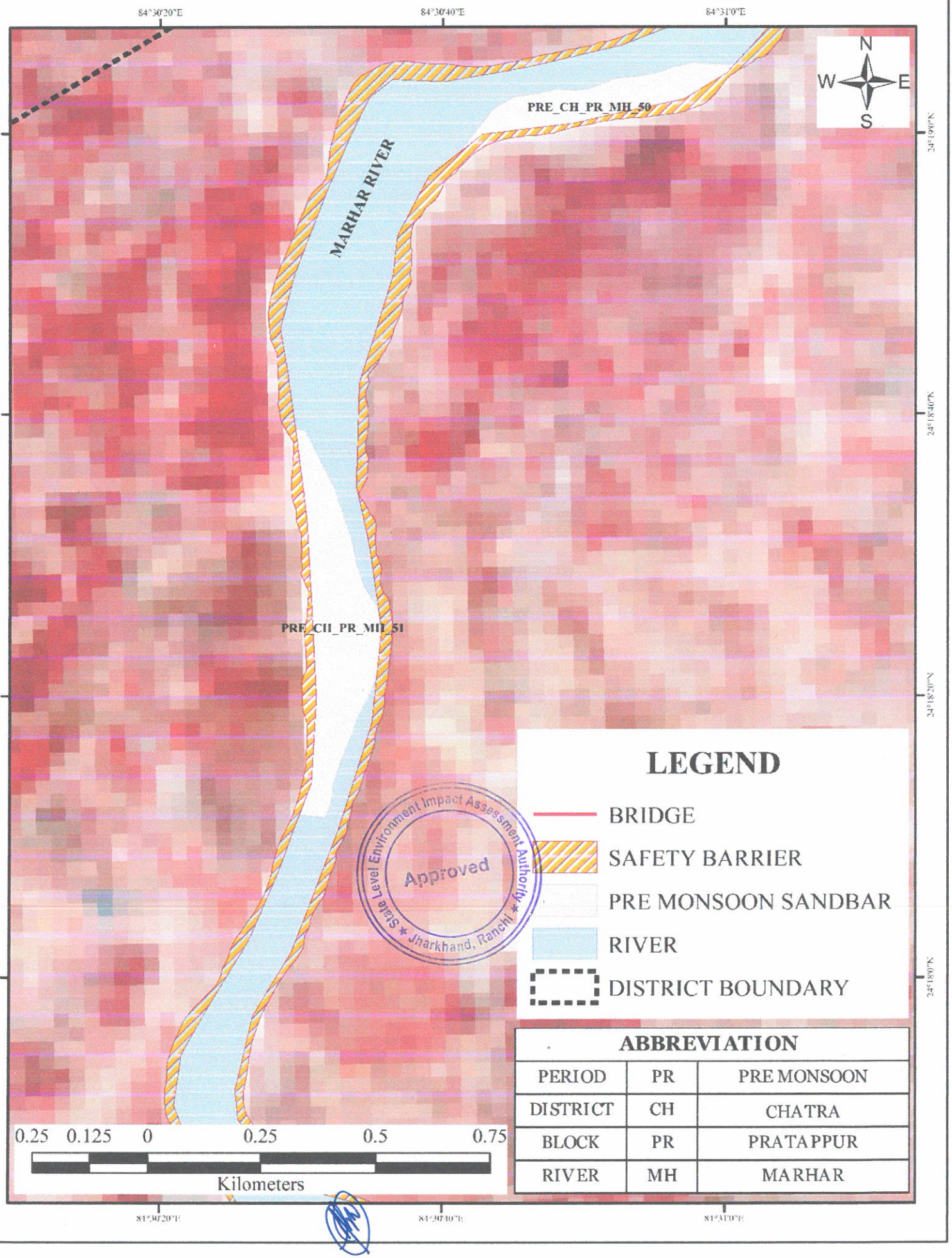
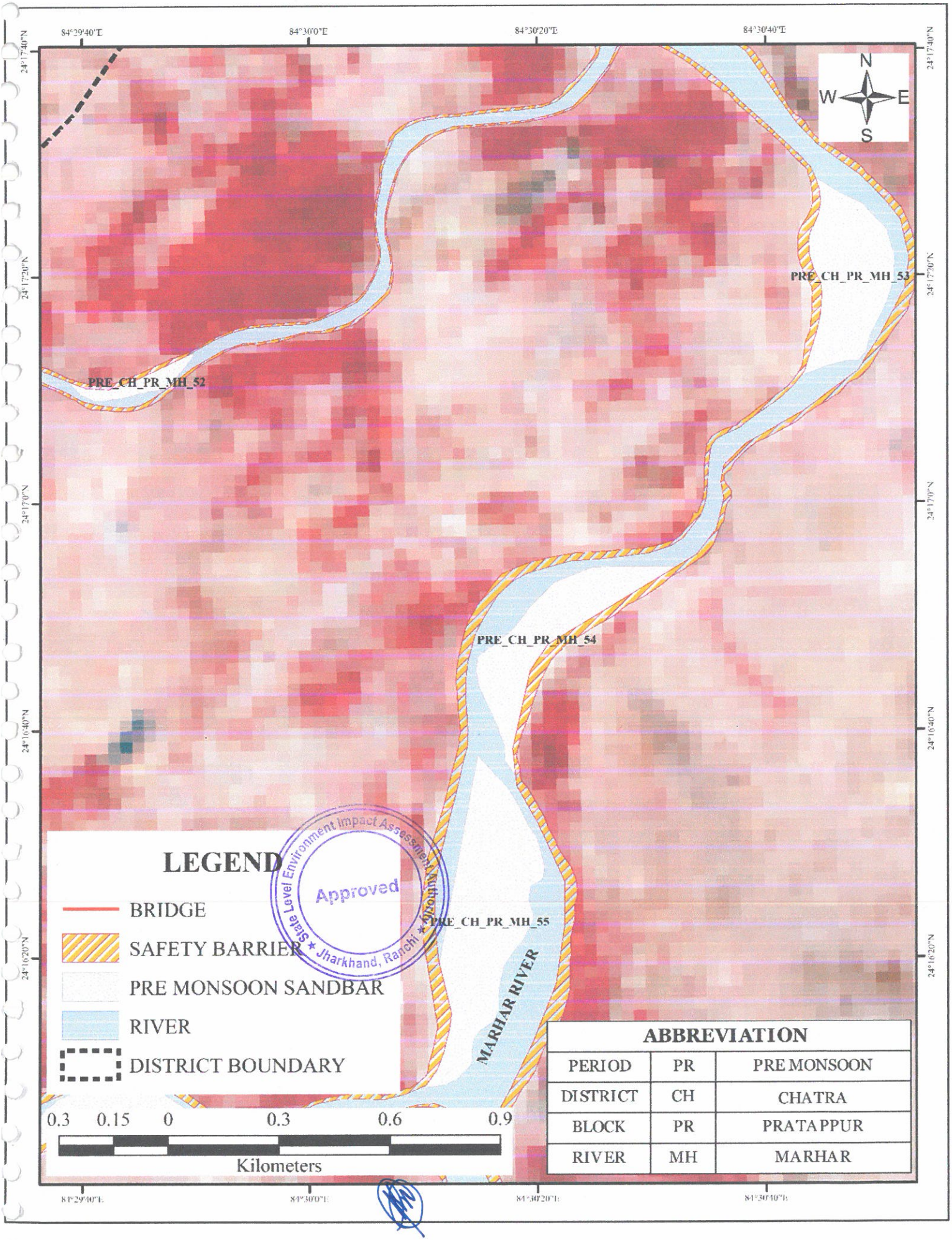
RIVER MH MARHAR



ABBREVIATION		
PERIOD	PR	PRE MONSOON
DISTRICT	CH	CHATRA
BLOCK	PR	PRATAPPUR
RIVER	MH	MARHAR



ABBREVIATION		
PERIOD	PR	PRE MONSOON
DISTRICT	CH	CHATRA
BLOCK	PR	PRATAPPUR
RIVER	MH	MARHAR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MARHAR RIVER
LEGEND
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PRE MONSOON SANDBAR
RIVER
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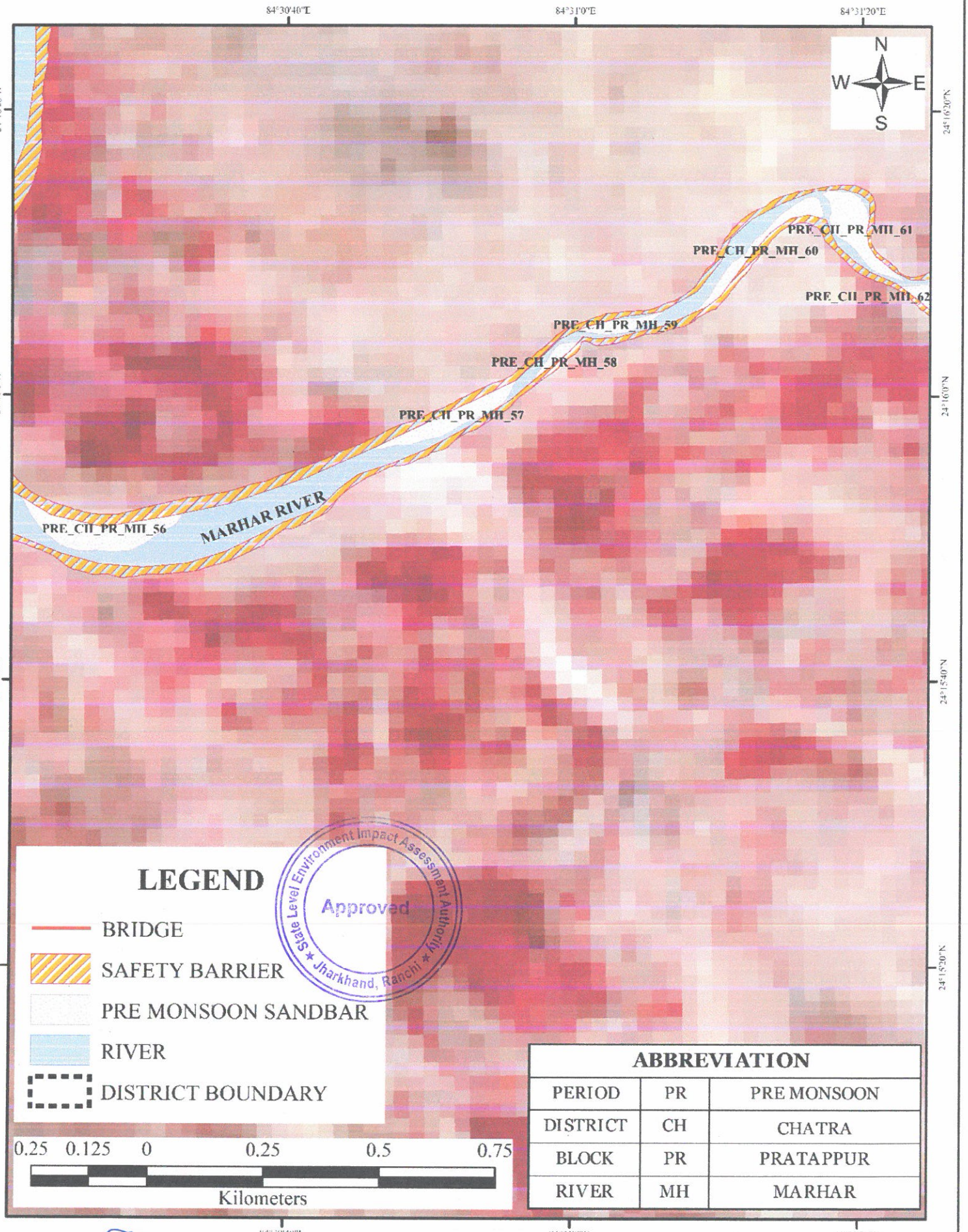
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK PR PRATAPPUR
RIVER MH MARHAR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MARHAR RIVER
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PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
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Jharkhand, Ranchi
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Kilometers
ABBREVIATION
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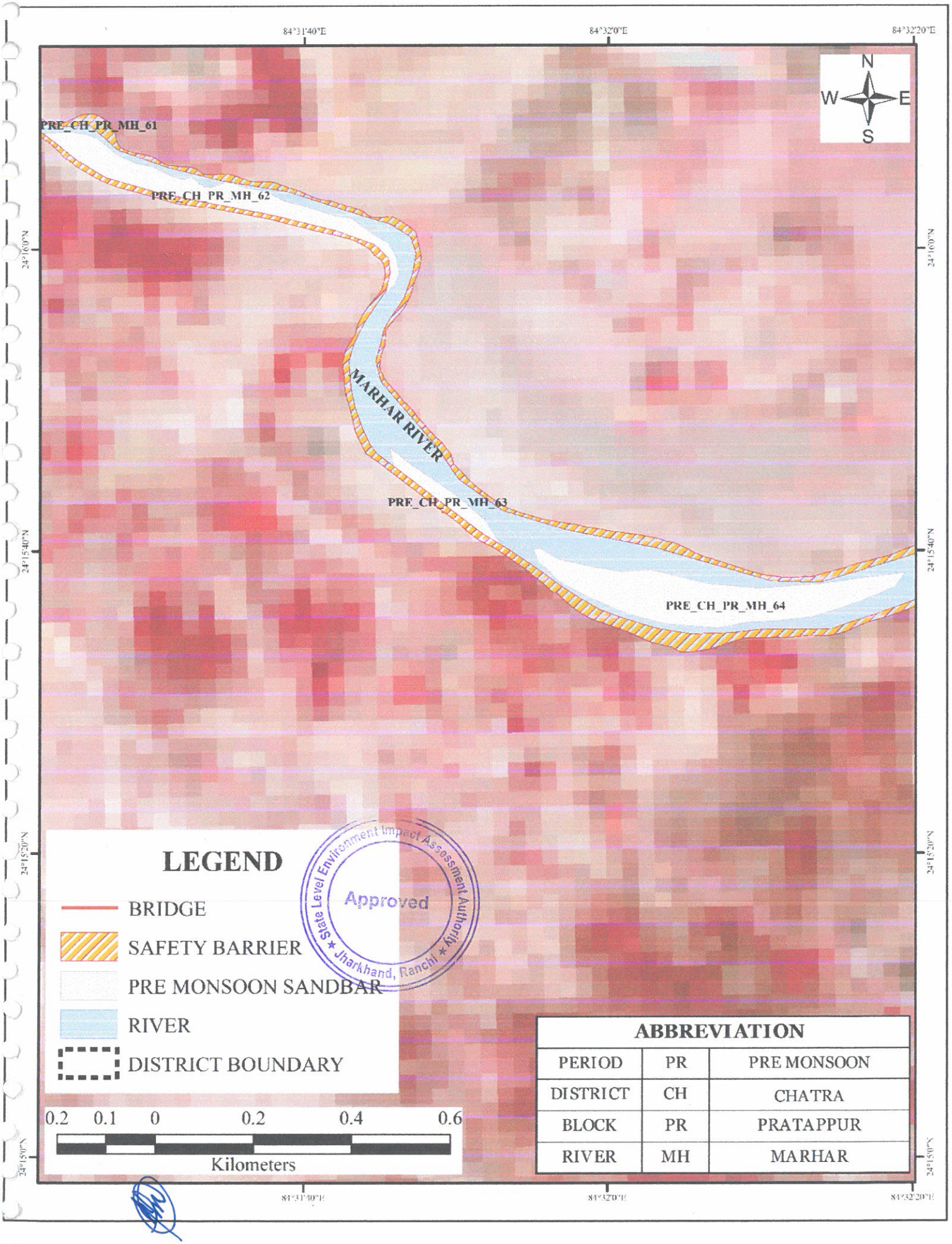
BLOCK PR PRATAPPUR
RIVER MH MARHAR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PRE_CH_PR_MH_61
PRE_CH_PR_MH_62
MARHAR RIVER
PRE_CH_PR_MH_63
PRE_CH_PR_MH_64
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
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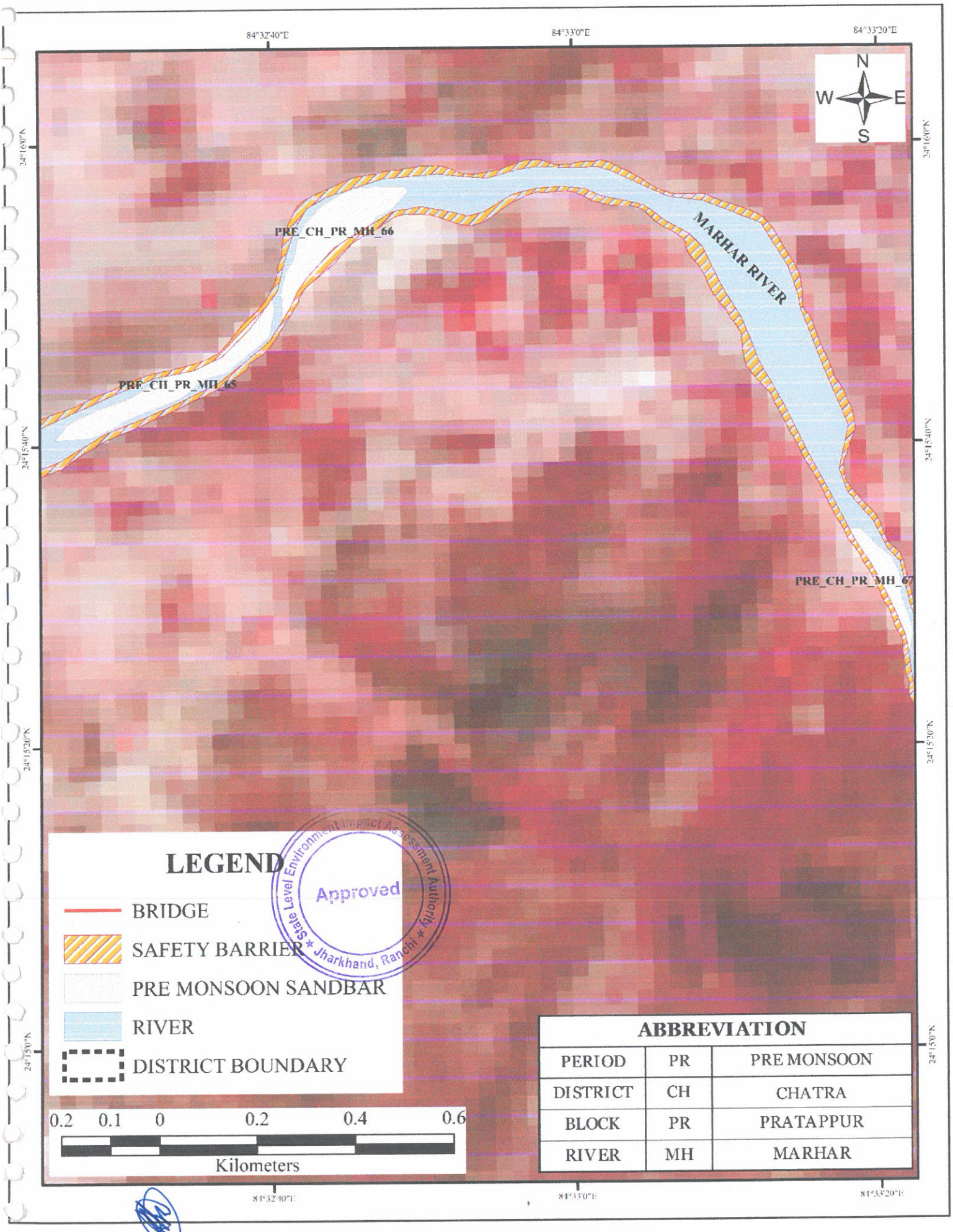
0.2 0.1 0 0.2 0.4 0.6
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK PR PRATAPPUR
RIVER MH MARHAR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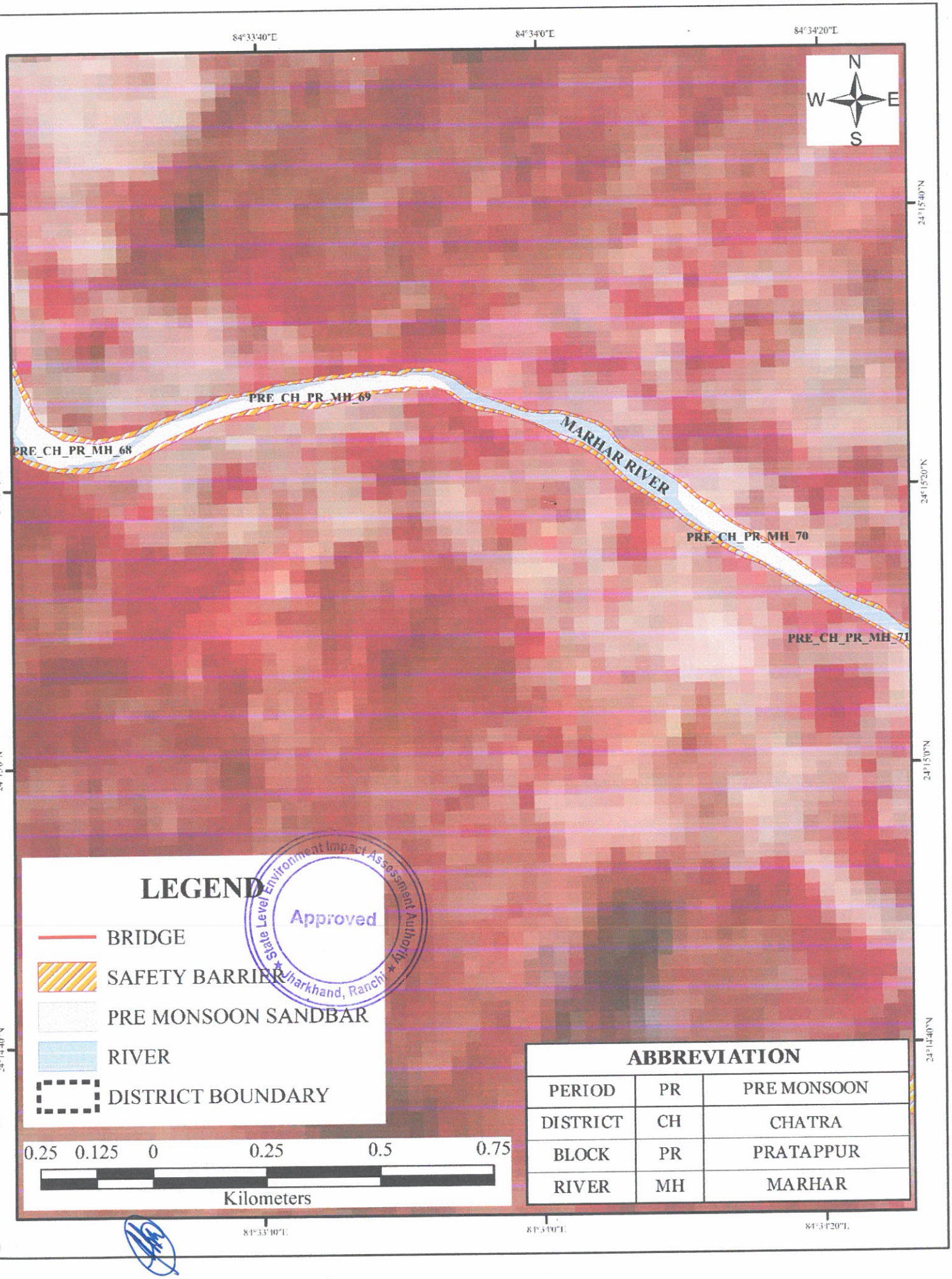
W
E
S
PRE_CH_PR_MH_66
PRE_CH_PR_MH_65
MARHAR RIVER
PRE_CH_PR_MH_67
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
0.2 0.1 0 0.2 0.4 0.6
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK PR PRATAPPUR
RIVER MH MARHAR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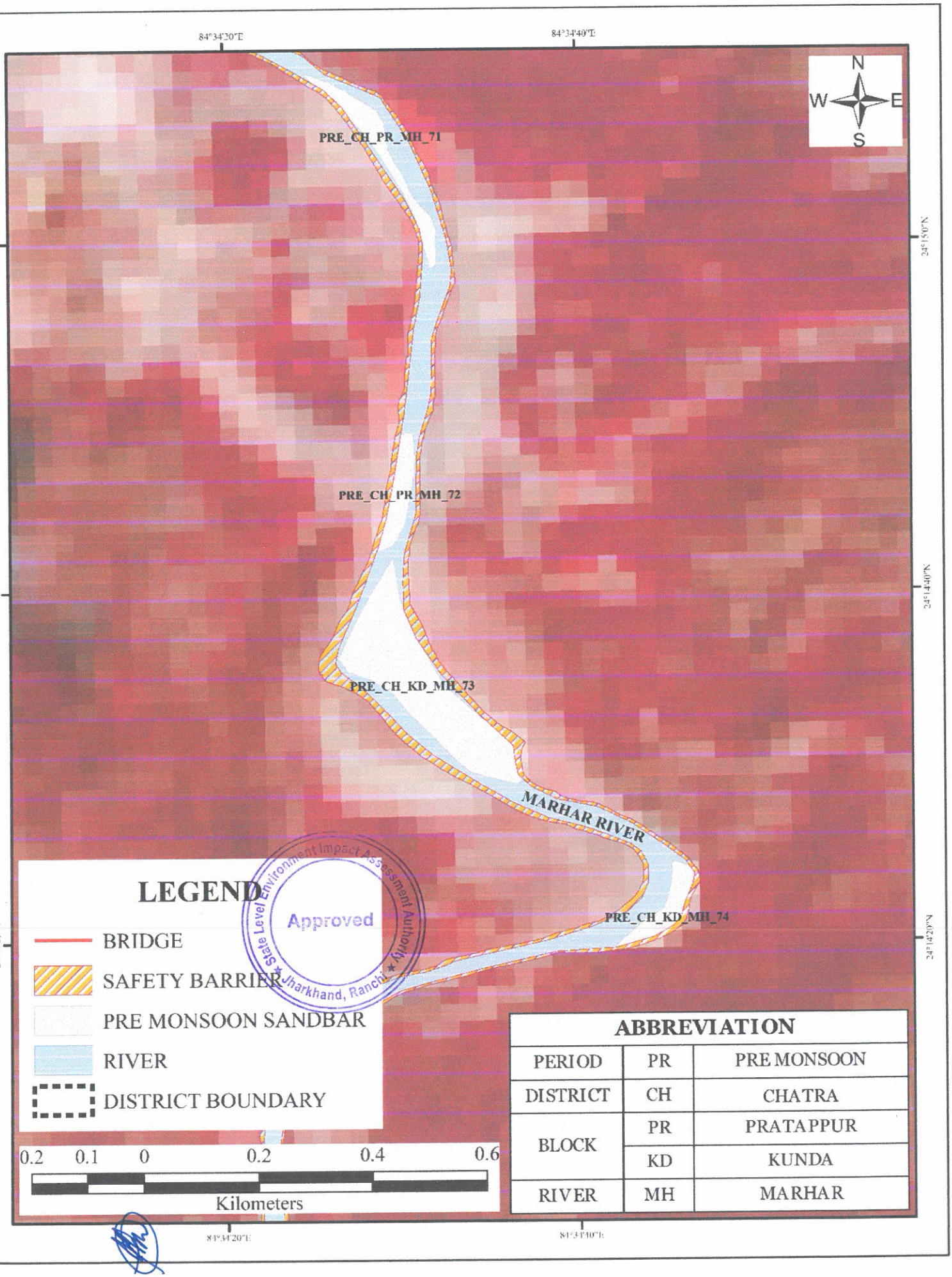
W
E
S
PRE_CH_PR_MH_69
PRE_CH_PR_MH_68
MARHAR RIVER
PRE_CH_PR_MH_70
PRE_CH_PR_MH_71
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
0.25 0.125 0 0.25 0.5 0.75
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK PR PRATAPPUR
RIVER MH MARHAR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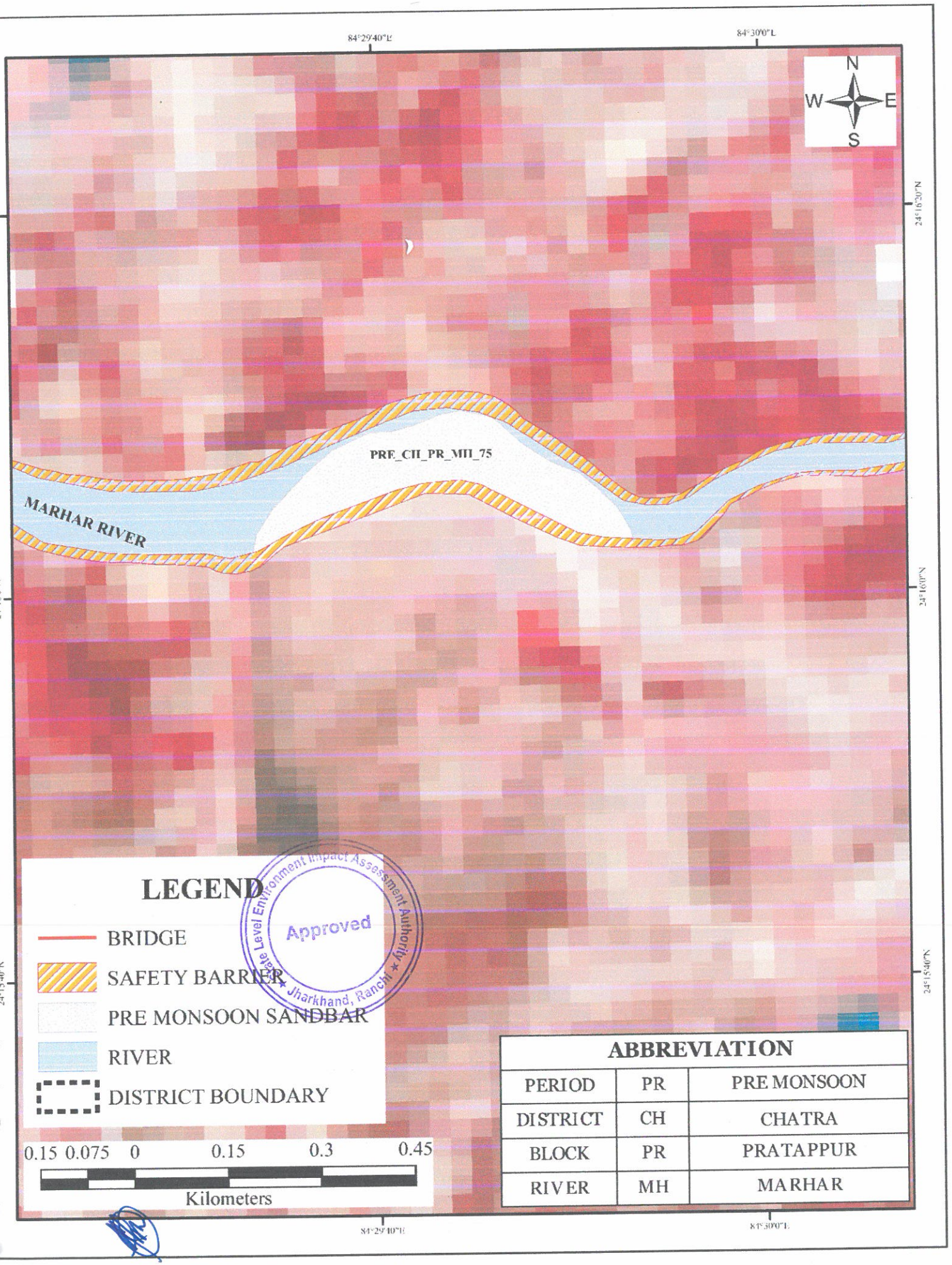
PRE_CH_PR_MH_72
PRE_CH_KD_MH_73
PRE_CH_KD_MH_74
MARHAR RIVER
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
0.2 0.1 0 0.2 0.4 0.6
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK PR PRATAPPUR
BLOCK KD KUNDA
RIVER MH MARHAR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PRE_CH_PR_MH_75
MARHAR RIVER
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
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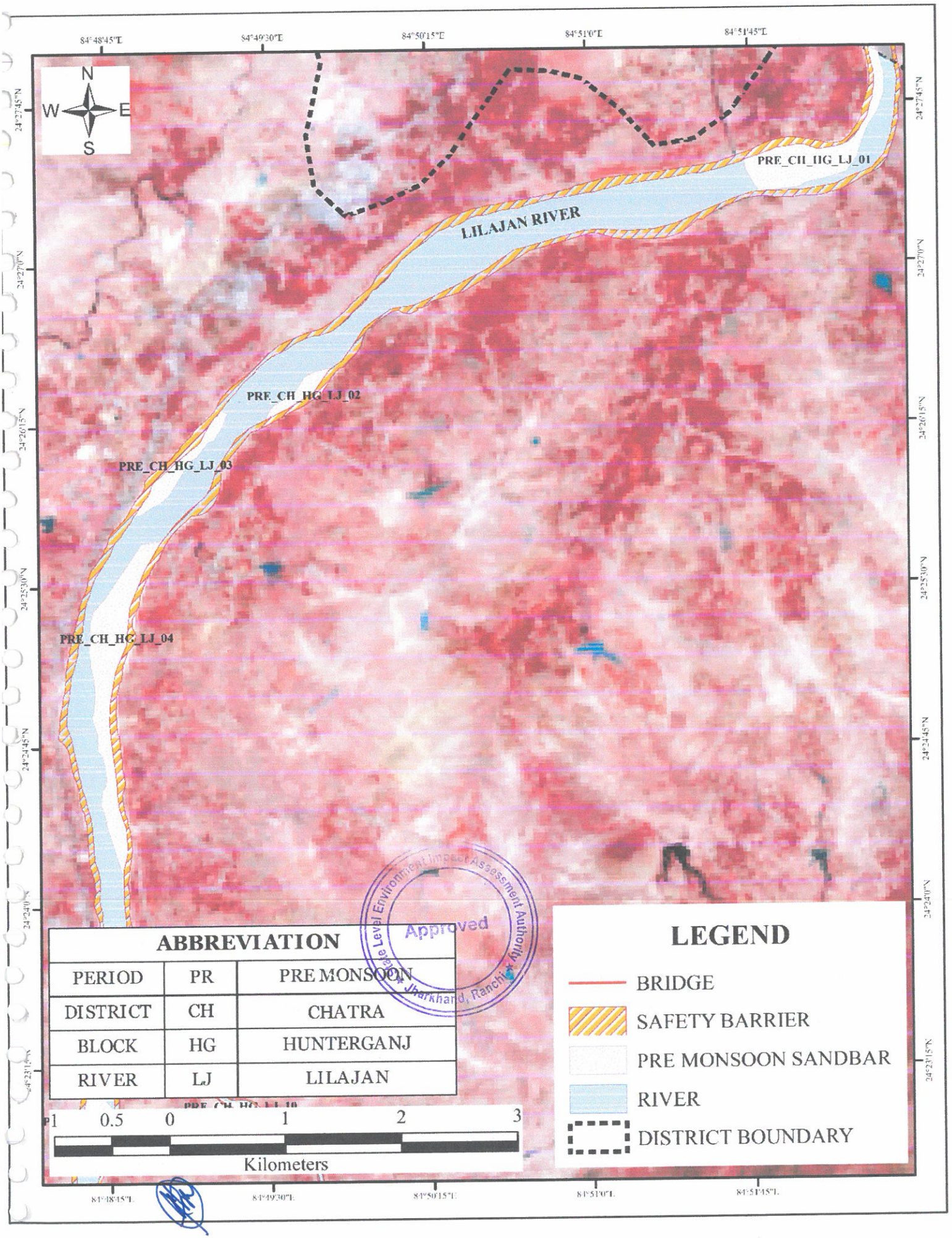
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK PR PRATAPPUR
RIVER MH MARHAR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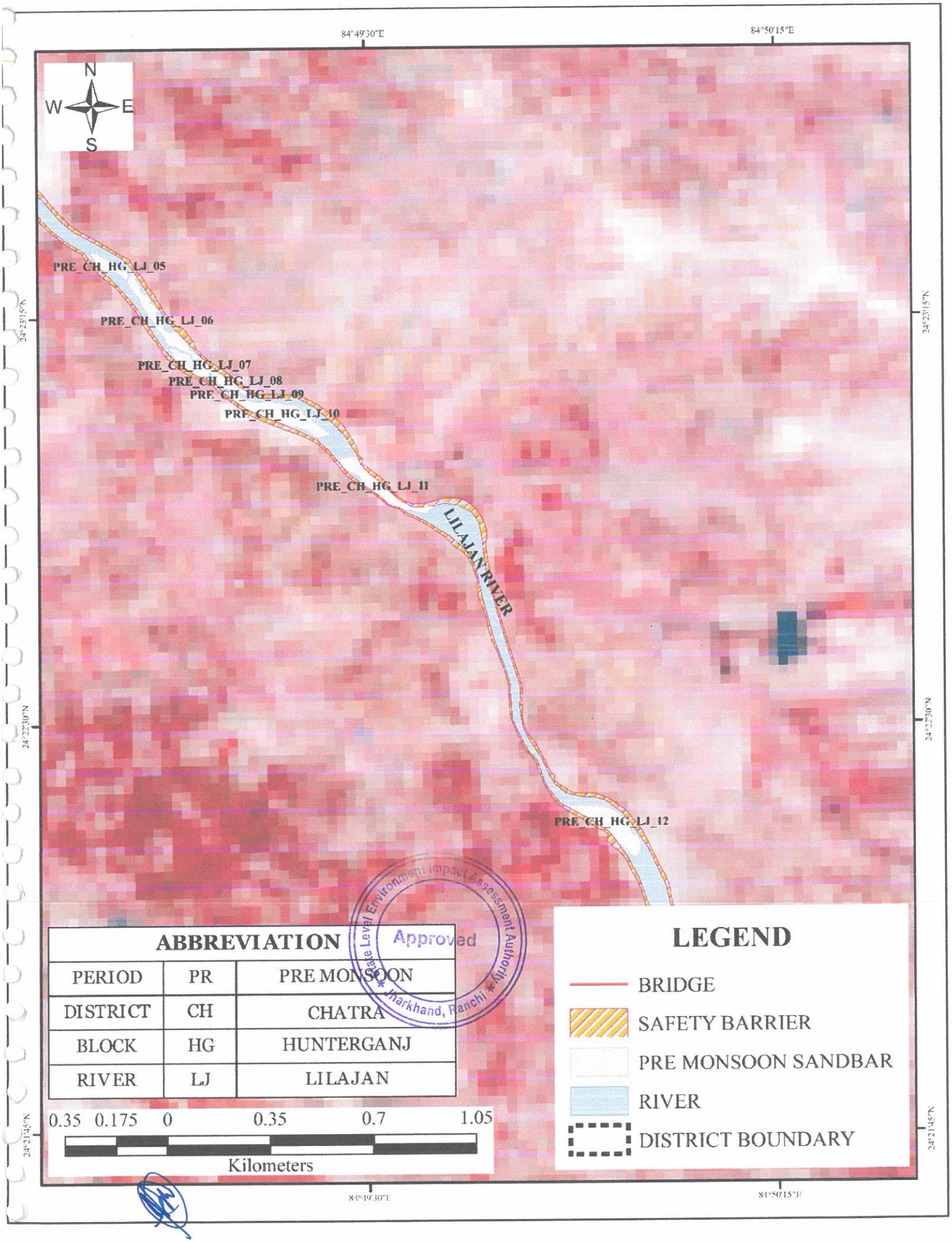
24°23'15"N
N
W
E
S
PRE_CH_HG_LJ_01
LILAJAN RIVER
PRE_CH_HG_LJ_02
PRE_CH_HG_LJ_03
PRE_CH_HG_LJ_04
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
ABBREVIATION
PERIOD | PR | PRE MONSOON
DISTRICT | CH | CHATRA
BLOCK | HG | HUNTERGANJ
RIVER | LJ | LILAJAN
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
1 0.5 0 1 2 3
Kilometers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W
E
S
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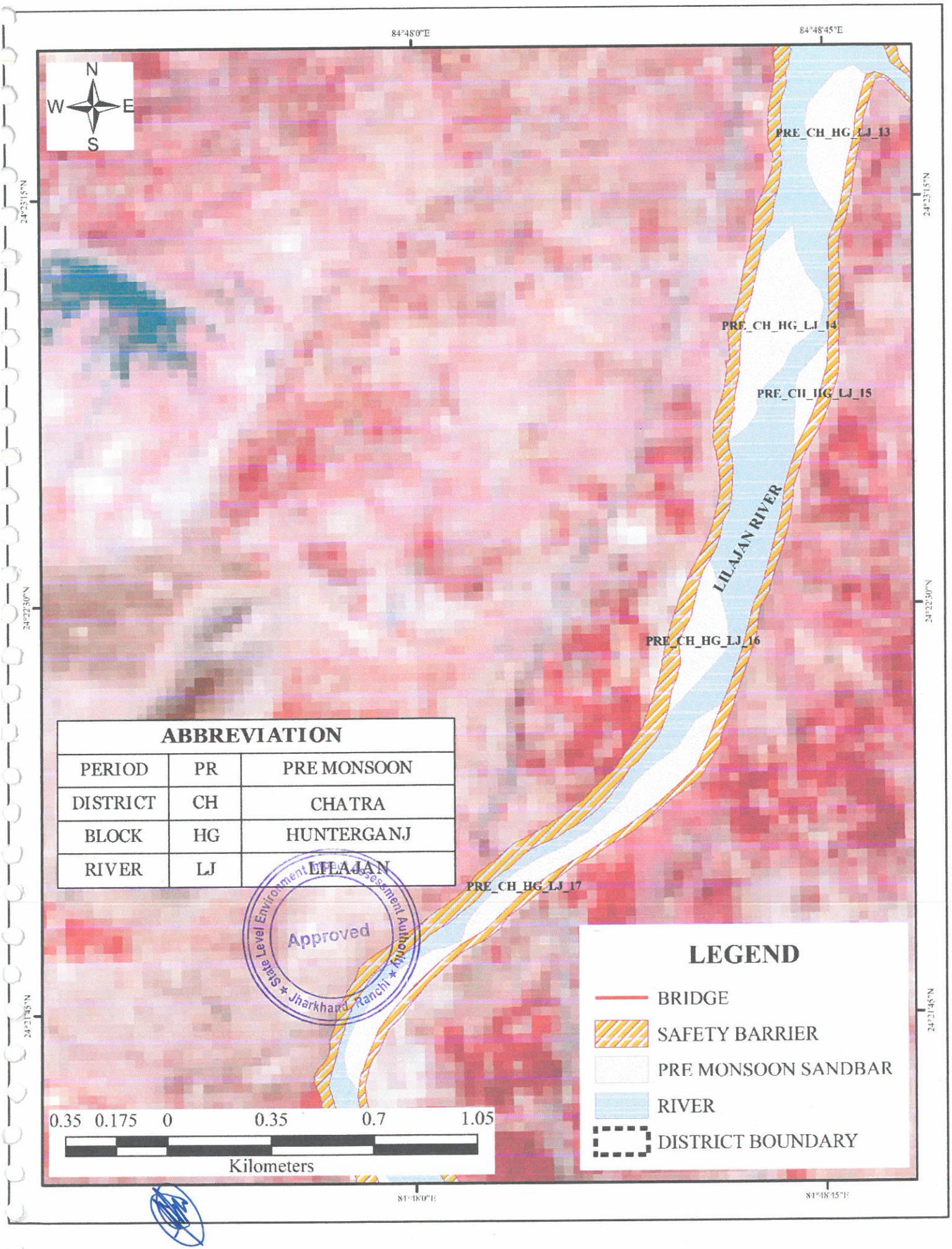
PRE_CH_HG_LJ_06
PRE_CH_HG_LJ_07
PRE_CH_HG_LJ_08
PRE_CH_HG_LJ_09
PRE_CH_HG_LJ_10
PRE_CH_HG_LJ_11
LILAJAN RIVER
PRE_CH_HG_LJ_12
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK HG HUNTERGANJ
RIVER LJ LILAJAN
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
0.35 0.175 0 0.35 0.7 1.05
Kilometers
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY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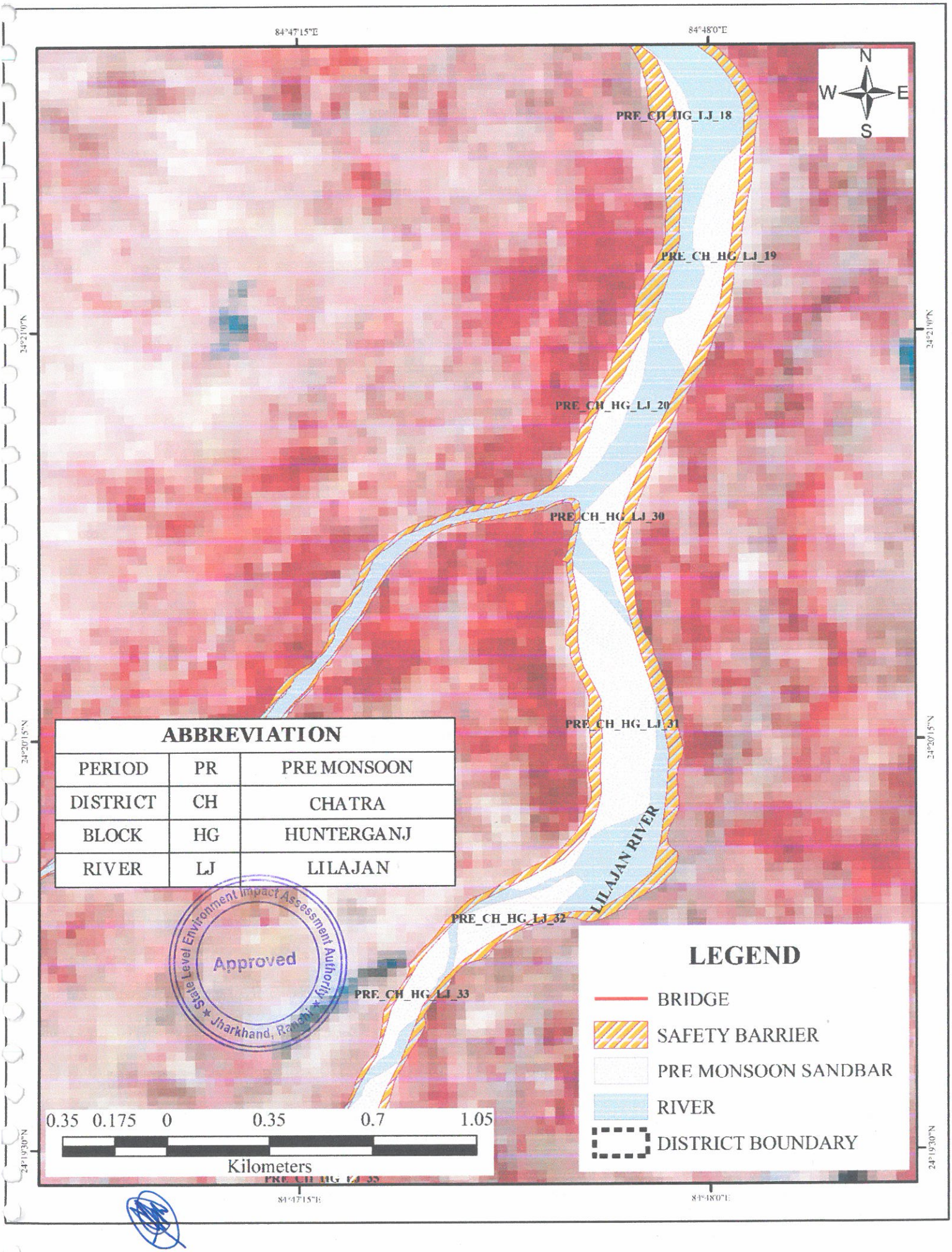
PRE_CH_HG_LJ_14
PRE_CH_HG_LJ_15
LILAJAN RIVER
PRE_CH_HG_LJ_16
PRE_CH_HG_LJ_17
ABBREVIATION
PERIOD | PR | PRE MONSOON
DISTRICT | CH | CHATRA
BLOCK | HG | HUNTERGANJ
RIVER | LJ | LILAJAN
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
0.35 0.175 0 0.35 0.7 1.05
Kilometers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E
S
PRE_CH_HG_LJ_18
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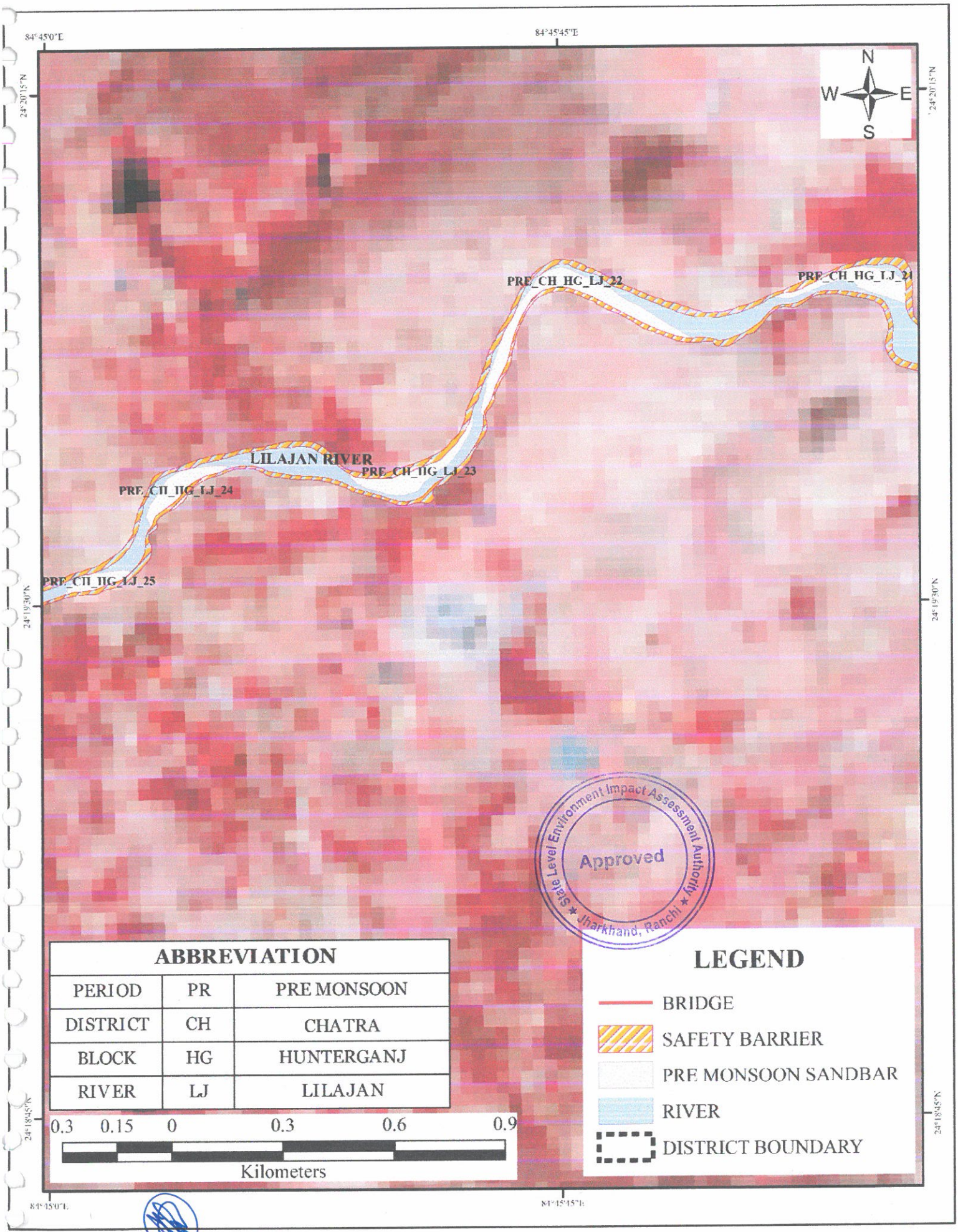
PRE_CH_HG_LJ_30
PRE_CH_HG_LJ_31
PRE_CH_HG_LJ_32
PRE_CH_HG_LJ_33
LILAJAN RIVER
24°21'0"N
24°20'15"N
24°19'30"N
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK HG HUNTERGANJ
RIVER LJ LILAJAN
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
0.35 0.175 0 0.35 0.7 1.05
Kilometers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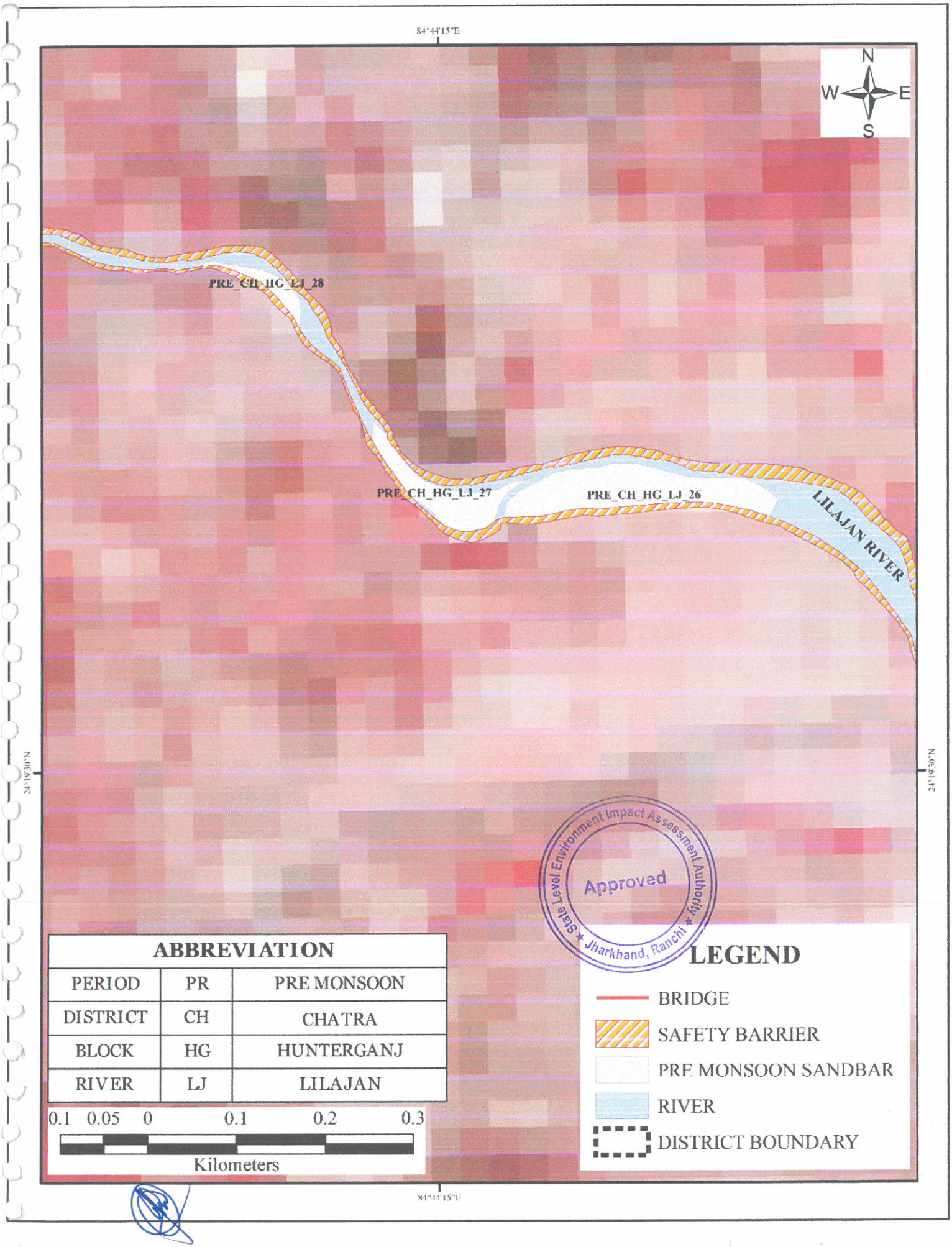
PRE_CH_HG_LJ_22
PRE_CH_HG_LJ_21
LILAJAN RIVER
PRE_CH_HG_LJ_23
PRE_CH_HG_LJ_24
PRE_CH_HG_LJ_25
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK HG HUNTERGANJ
RIVER LJ LILAJAN
0.3 0.15 0 0.3 0.6 0.9
Kilometers
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY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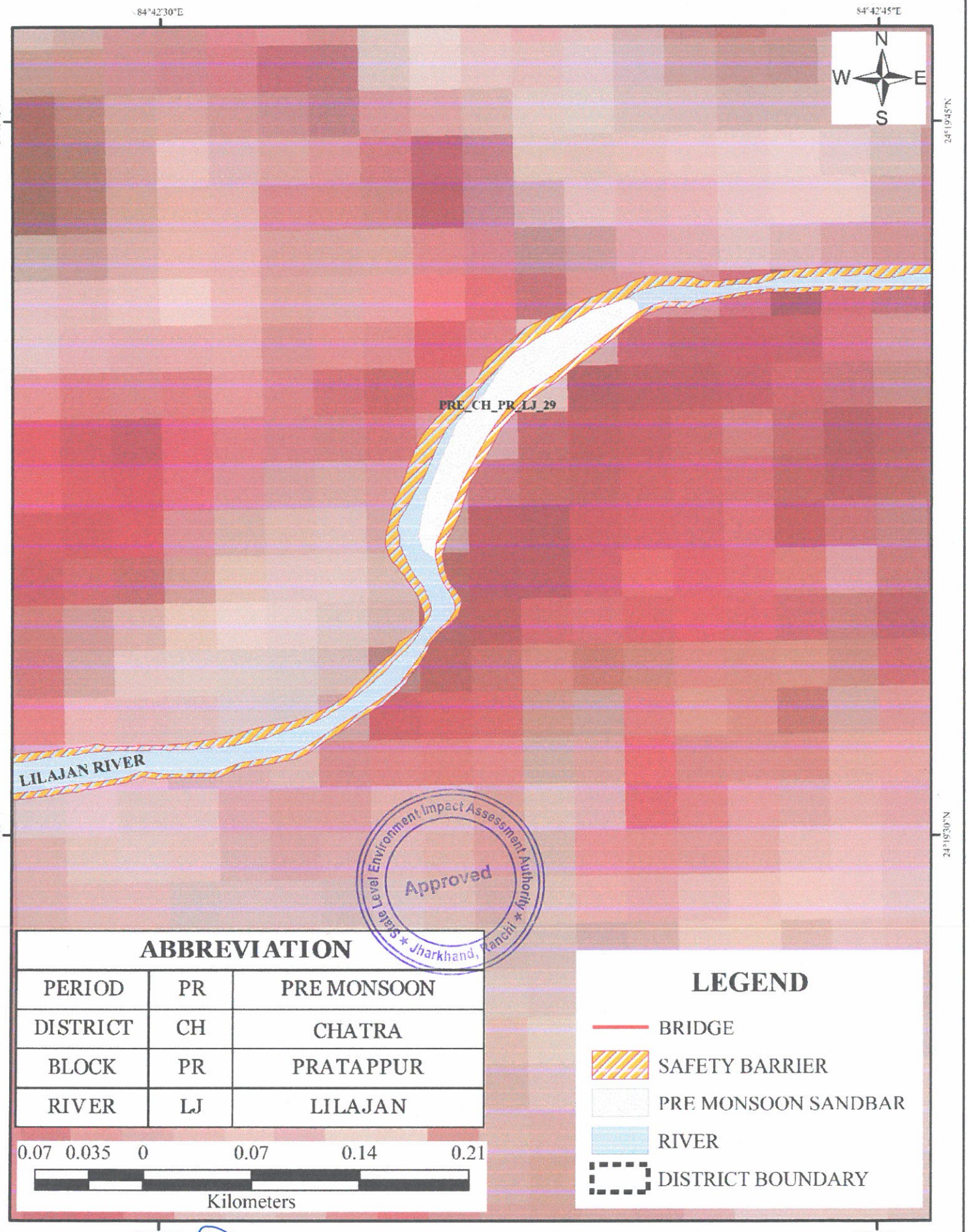
W
E
S
PRE_CH_HG_LJ_28
PRE_CH_HG_LJ_27
PRE_CH_HG_LJ_26
LILAJAN RIVER
24°19'30"N
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
ABBREVIATION
PERIOD | PR | PRE MONSOON
DISTRICT | CH | CHATRA
BLOCK | HG | HUNTERGANJ
RIVER | LJ | LILAJAN
0.1 0.05 0 0.1 0.2 0.3
Kilometers
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
84°44'15"E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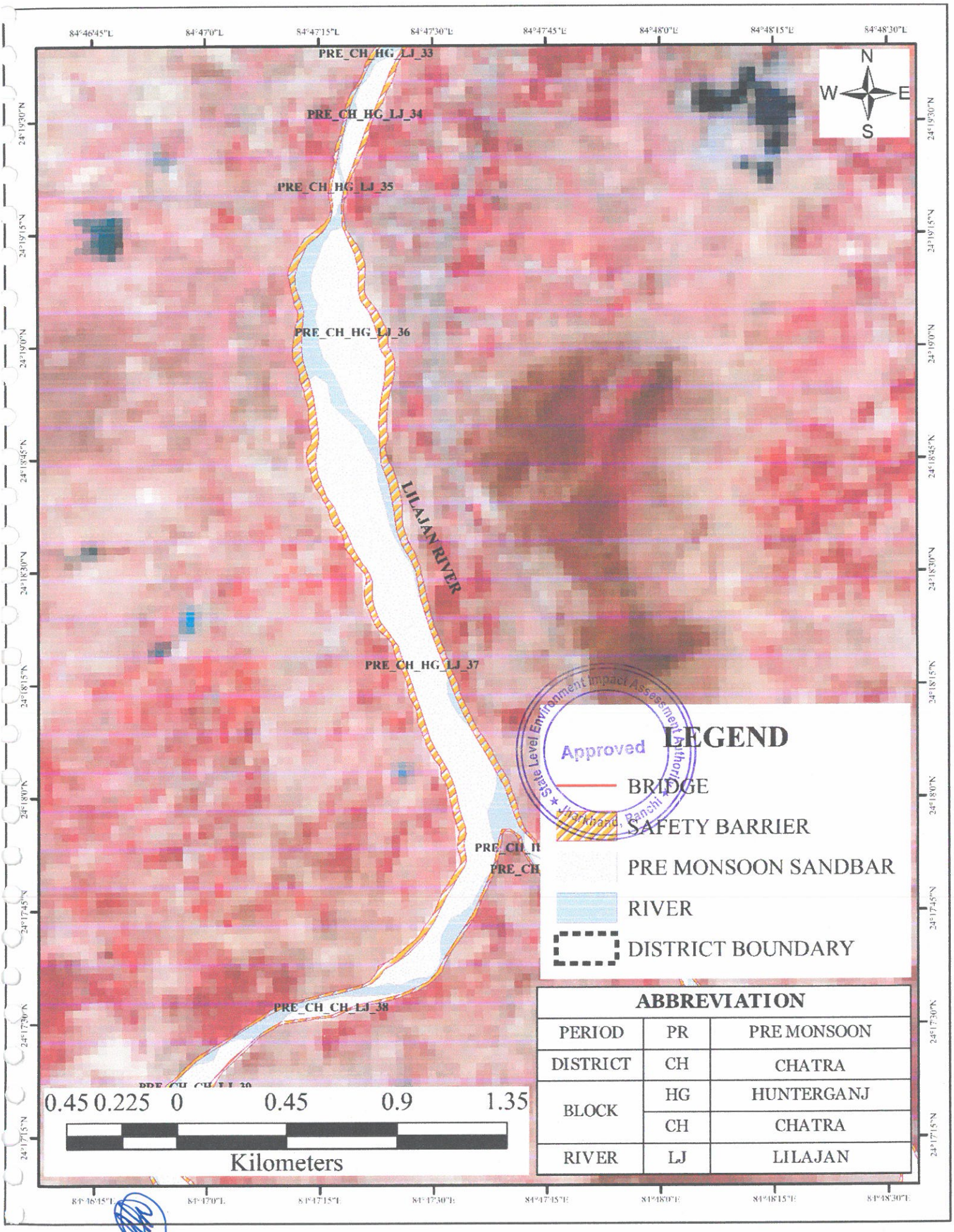
W
E
S
PRE_CH_PR_LJ_29
LILAJAN RIVER
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK PR PRATAPPUR
RIVER LJ LILAJAN
0.07 0.035 0 0.07 0.14 0.21
Kilometers
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY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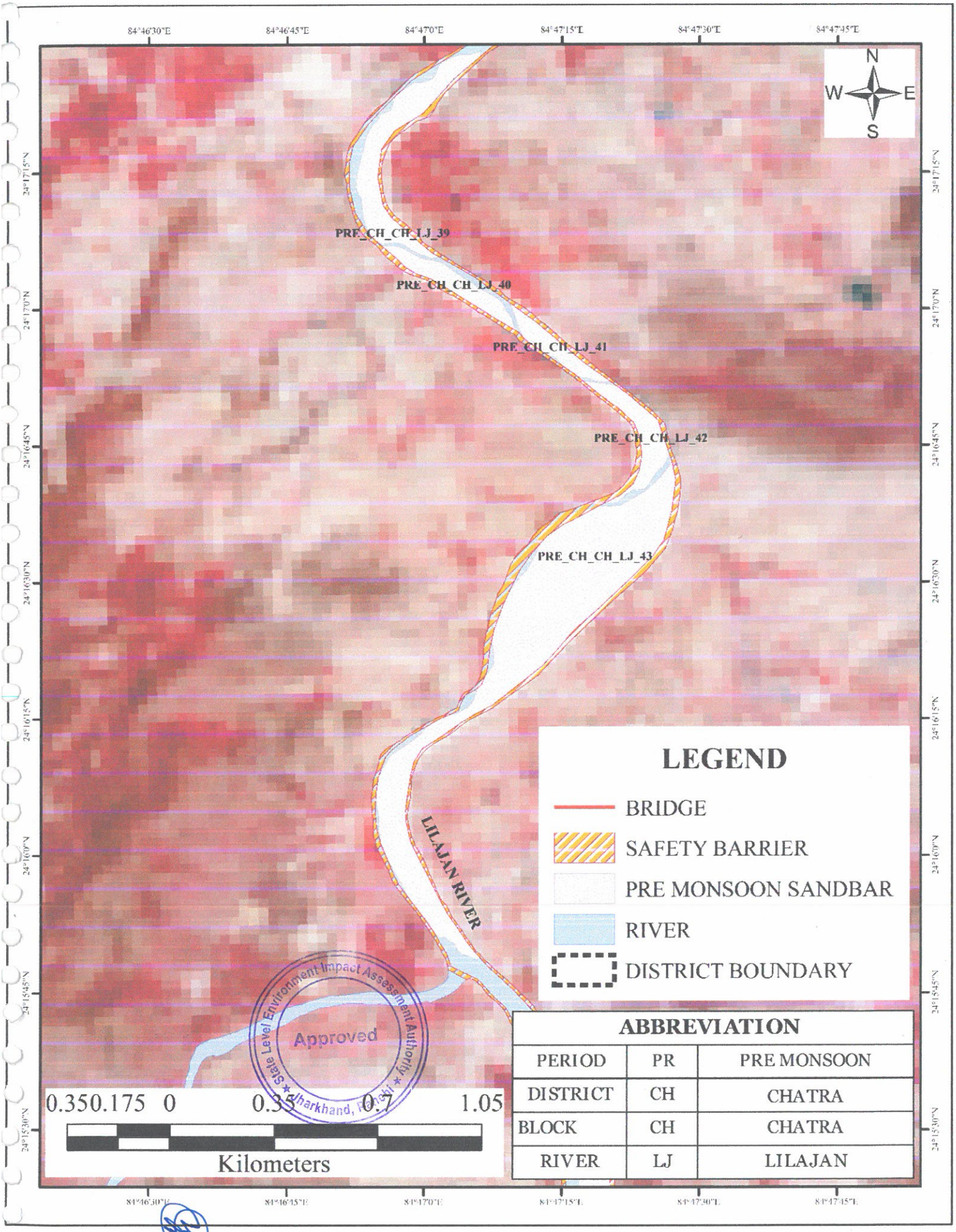
W
E
S
PRE_CH_HG_LJ_33
PRE_CH_HG_LJ_34
PRE_CH_HG_LJ_35
PRE_CH_HG_LJ_36
LILAJAN RIVER
PRE_CH_HG_LJ_37
PRE_CH_CH_LJ_38
0.45 0.225 0 0.45 0.9 1.35
Kilometers
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK HG HUNTERGANJ
BLOCK CH CHATRA
RIVER LJ LILAJAN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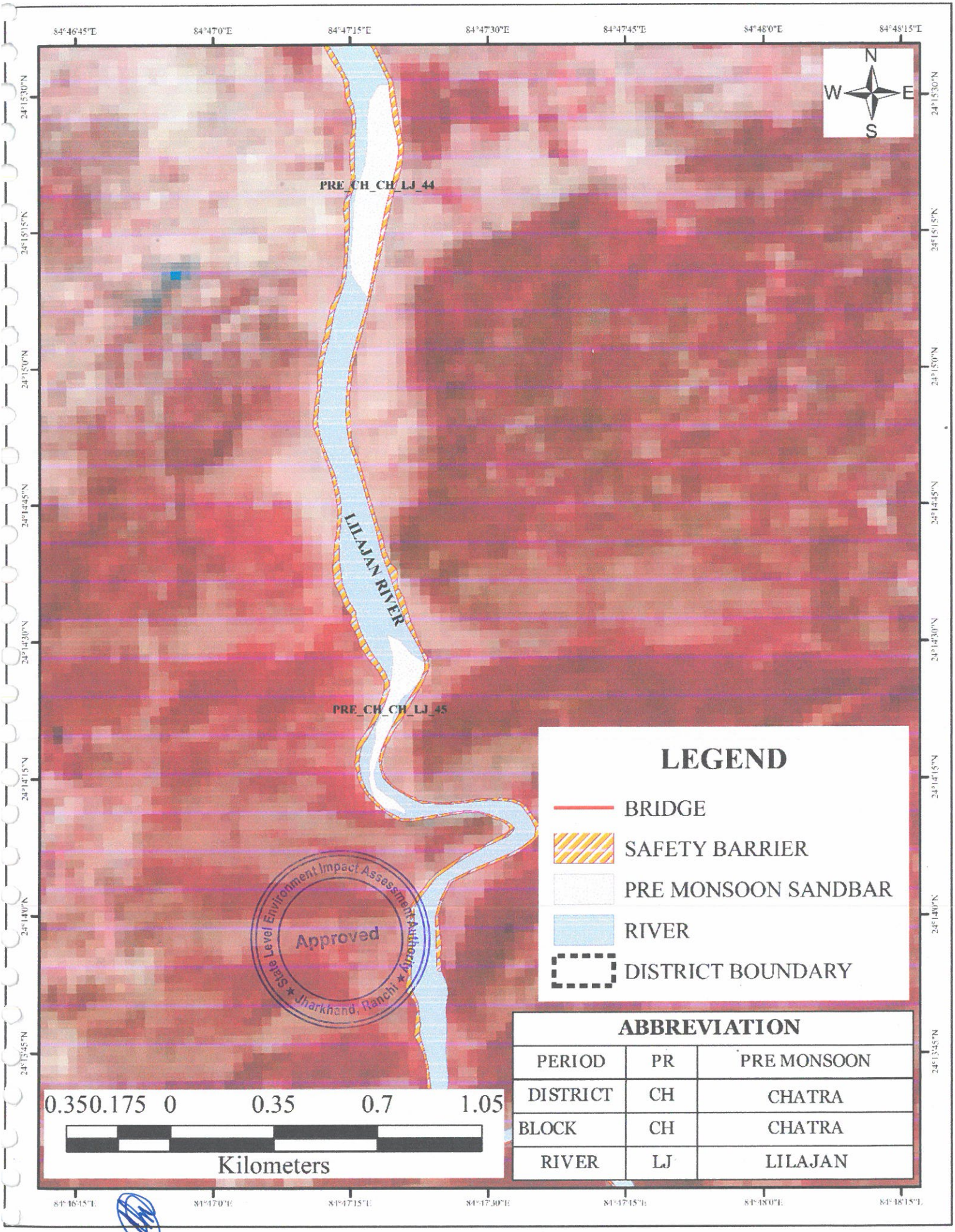
24°15'30"N
N
W
E
S
PRE_CH_CH_LJ_39
PRE_CH_CH_LJ_40
PRE_CH_CH_LJ_41
PRE_CH_CH_LJ_42
PRE_CH_CH_LJ_43
LILAJAN RIVER
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK CH CHATRA
RIVER LJ LILAJAN
0.350.175 0 0.35 0.7 1.05
Kilometers
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi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S
PRE_CH_CH_LJ_44
LILAJAN RIVER
PRE_CH_CH_LJ_45
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
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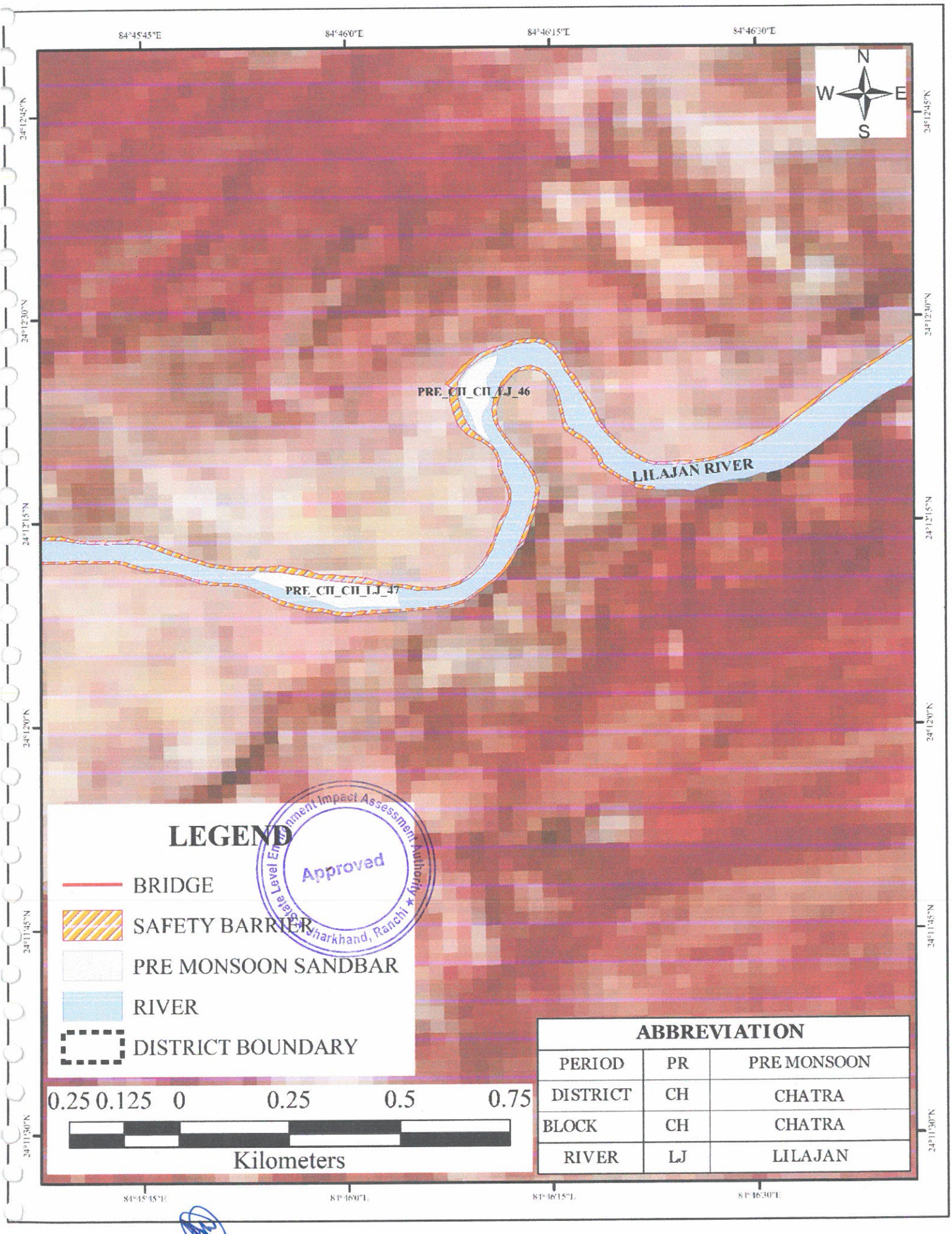
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK CH CHATRA
RIVER LJ LILAJAN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W
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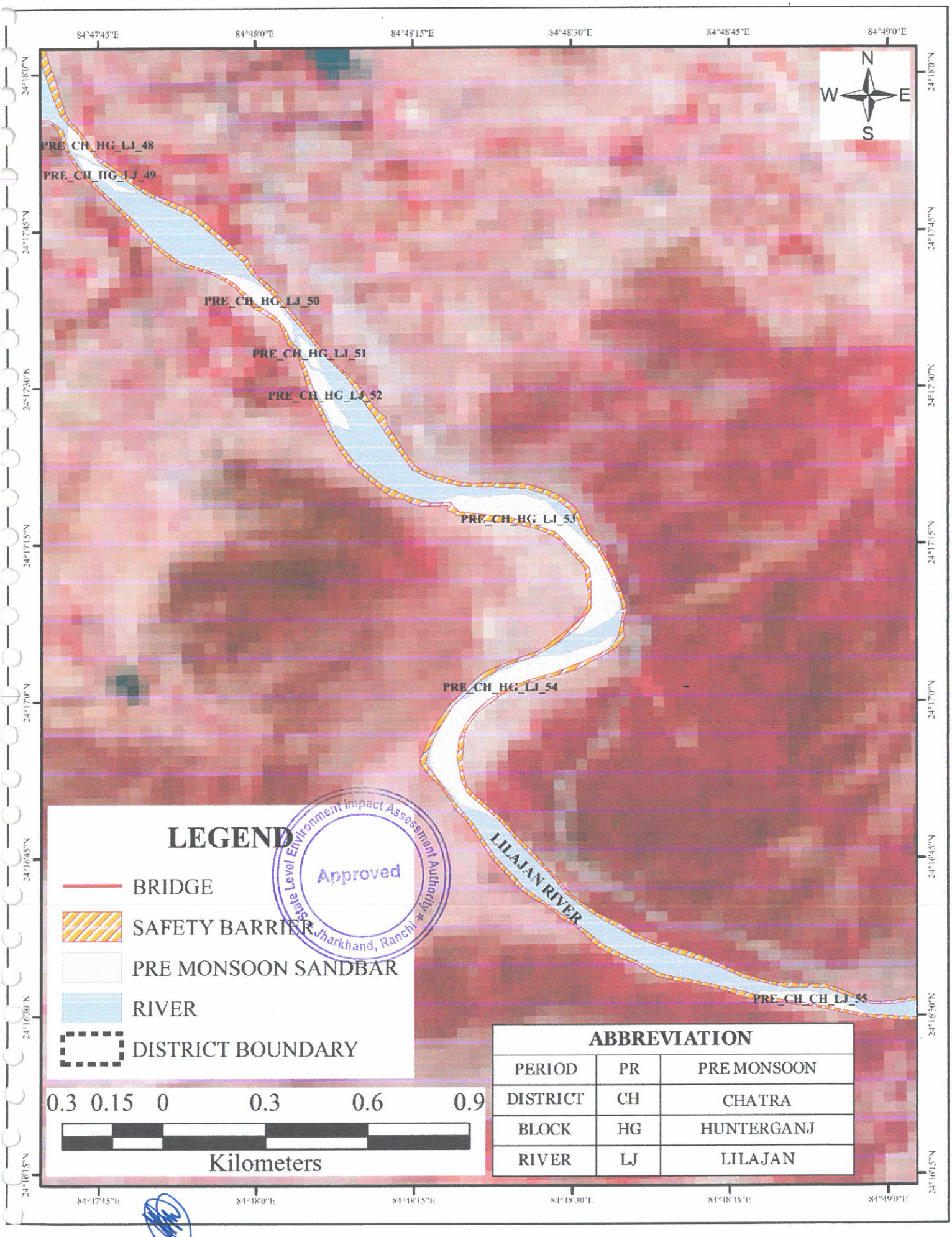
S
PRE_CH_CH_LJ_46
LILAJAN RIVER
PRE_CH_CH_LJ_47
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
0.25 0.125 0 0.25 0.5 0.75
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK CH CHATRA
RIVER LJ LILAJAN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PRE_CH_HG_LJ_52
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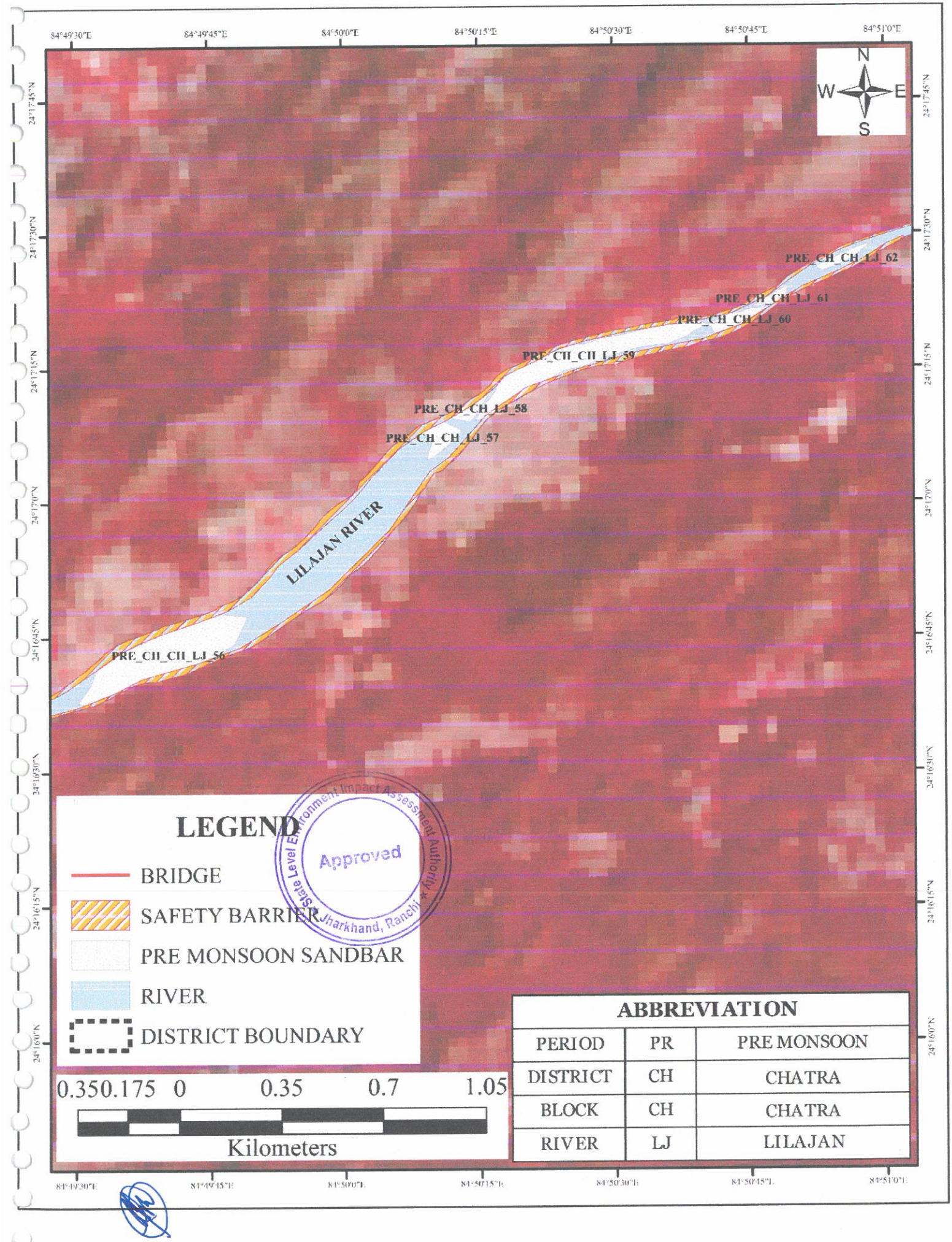
PRE_CH_HG_LJ_54
PRE_CH_CH_LJ_55
LILAJAN RIVER
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
0.3 0.15 0 0.3 0.6 0.9
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK HG HUNTERGANJ
RIVER LJ LILAJAN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W
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PRE_CH_CH_LJ_62
PRE_CH_CH_LJ_61
PRE_CH_CH_LJ_60
PRE_CH_CH_LJ_59
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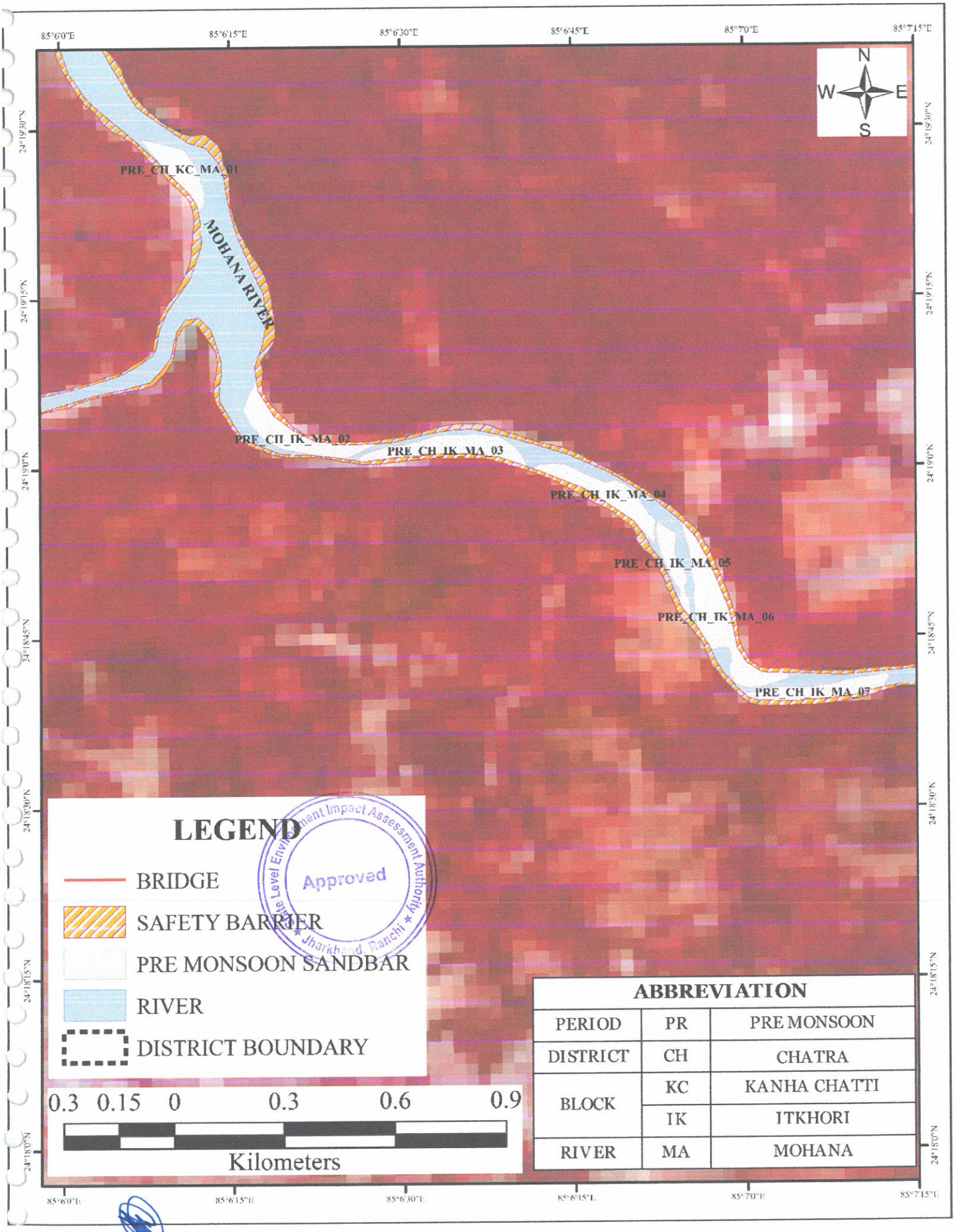
PRE_CH_CH_LJ_57
LILAJAN RIVER
PRE_CH_CH_LJ_56
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
0.350.175 0 0.35 0.7 1.05
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK CH CHATRA
RIVER LJ LILAJAN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W
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PRE_CH_KC_MA_01
MOHANA RIVER
PRE_CH_IK_MA_02
PRE_CH_IK_MA_03
PRE_CH_IK_MA_04
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PRE_CH_IK_MA_06
PRE_CH_IK_MA_07
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
0.3 0.15 0 0.3 0.6 0.9
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
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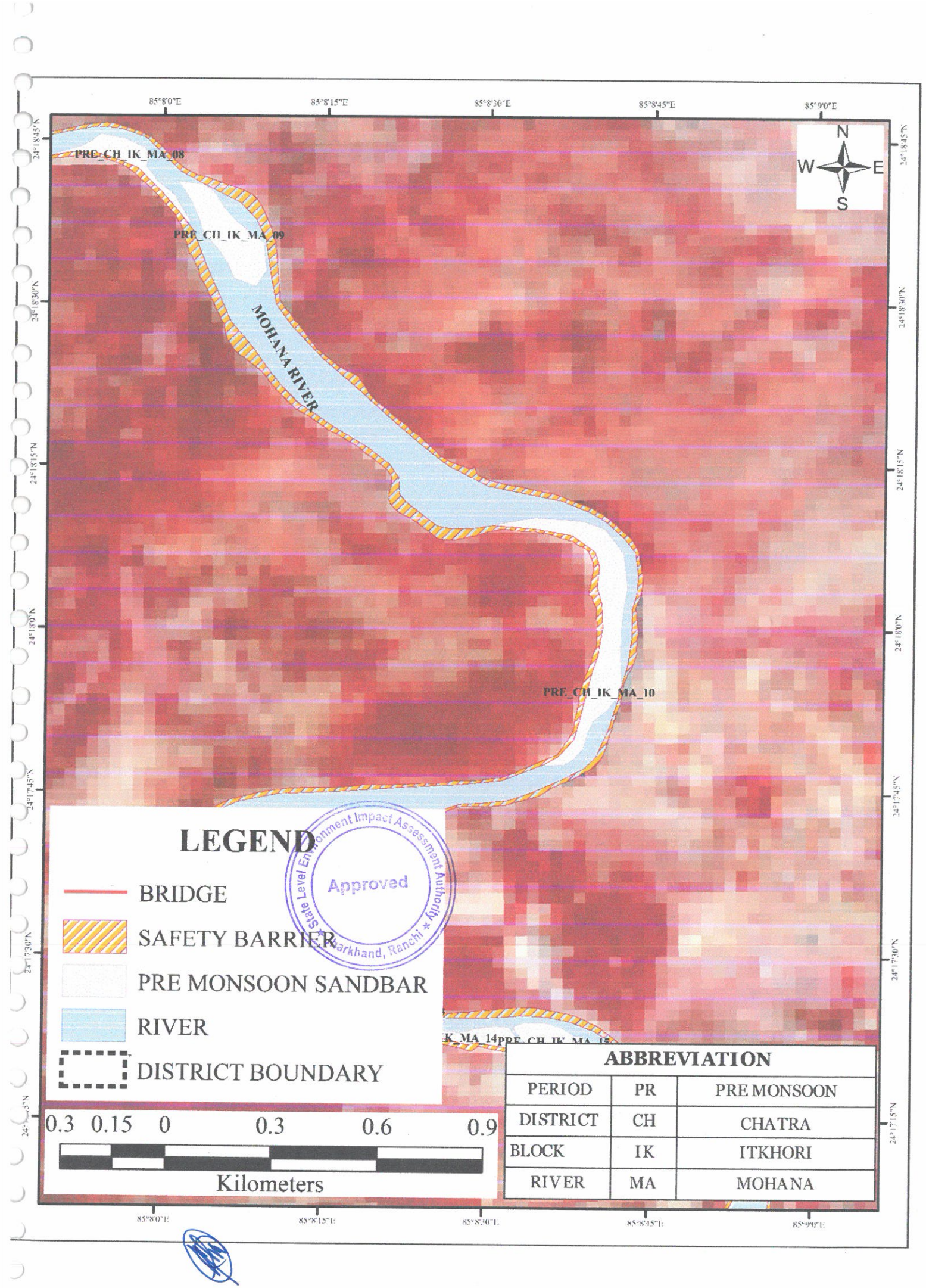
BLOCK KC KANHA CHATTI
BLOCK IK ITKHORI
RIVER MA MOHANA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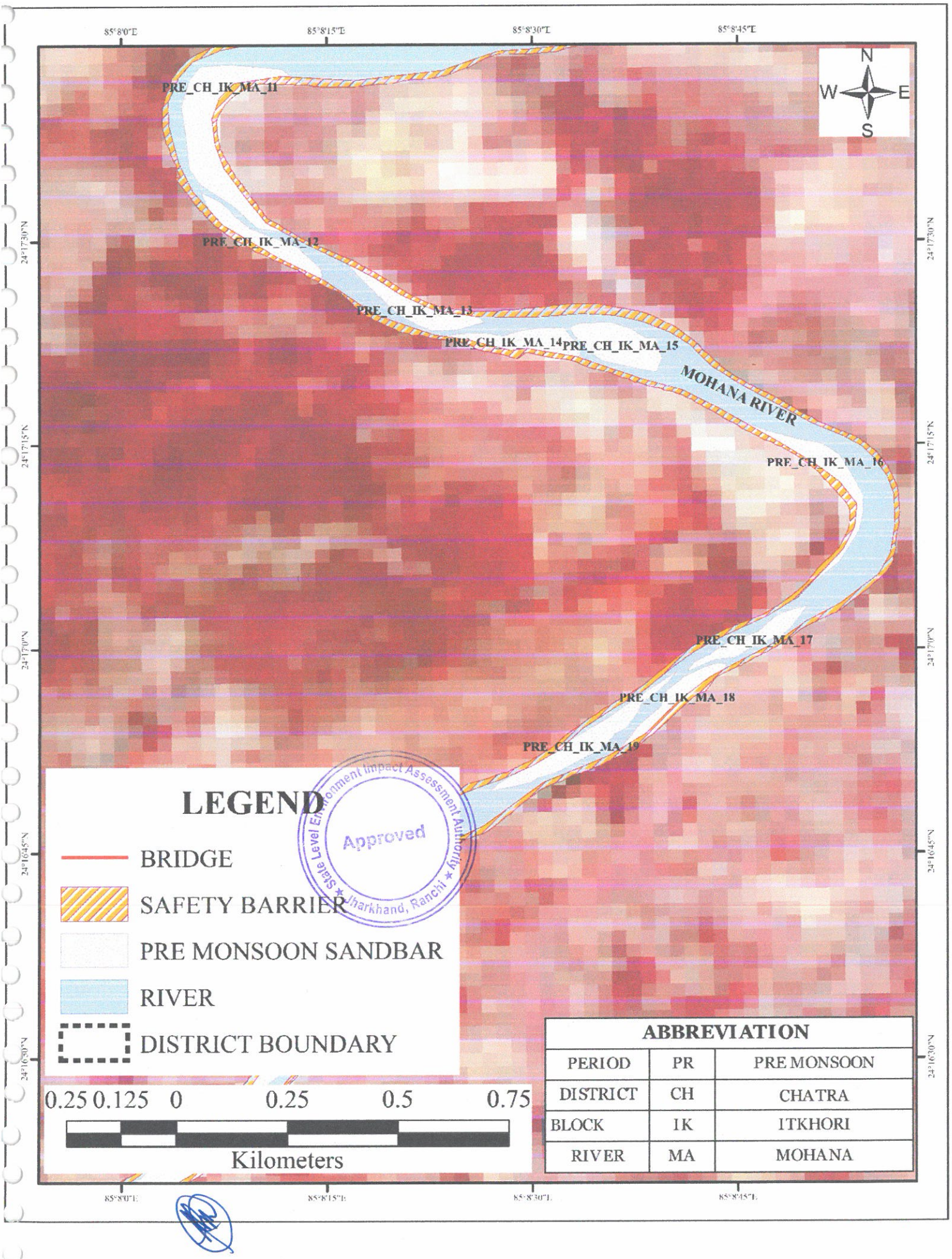
PRE_CH_IK_MA_08
PRE_CH_IK_MA_09
MOHANA RIVER
PRE_CH_IK_MA_10
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
0.3 0.15 0 0.3 0.6 0.9
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK IK ITKHORI
RIVER MA MOHANA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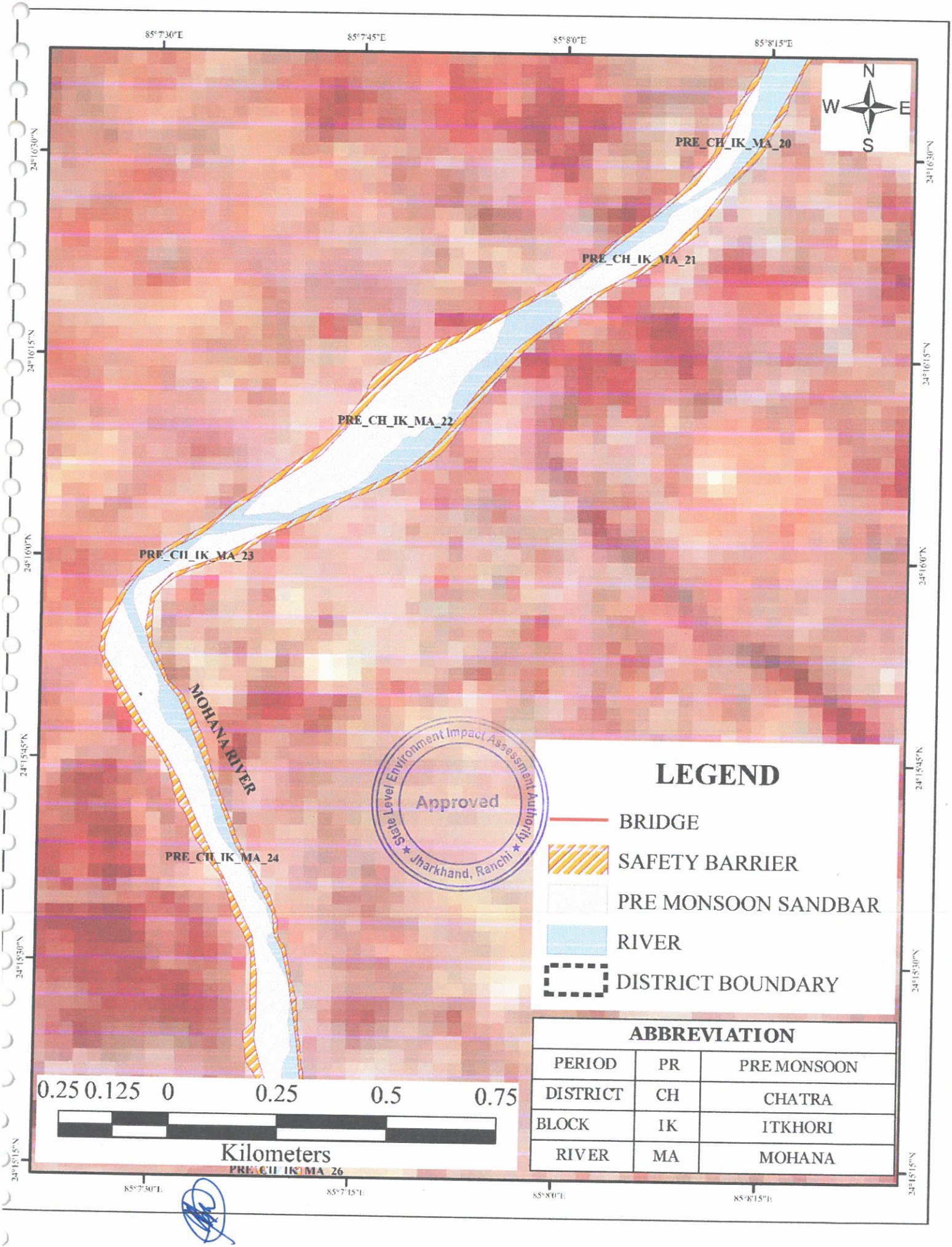
N
W
E
S
PRE_CH_IK_MA_11
PRE_CH_IK_MA_12
PRE_CH_IK_MA_13
PRE_CH_IK_MA_14
PRE_CH_IK_MA_15
MOHANA RIVER
PRE_CH_IK_MA_16
PRE_CH_IK_MA_17
PRE_CH_IK_MA_18
PRE_CH_IK_MA_19
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
0.25 0.125 0 0.25 0.5 0.75
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK IK ITKHORI
RIVER MA MOHANA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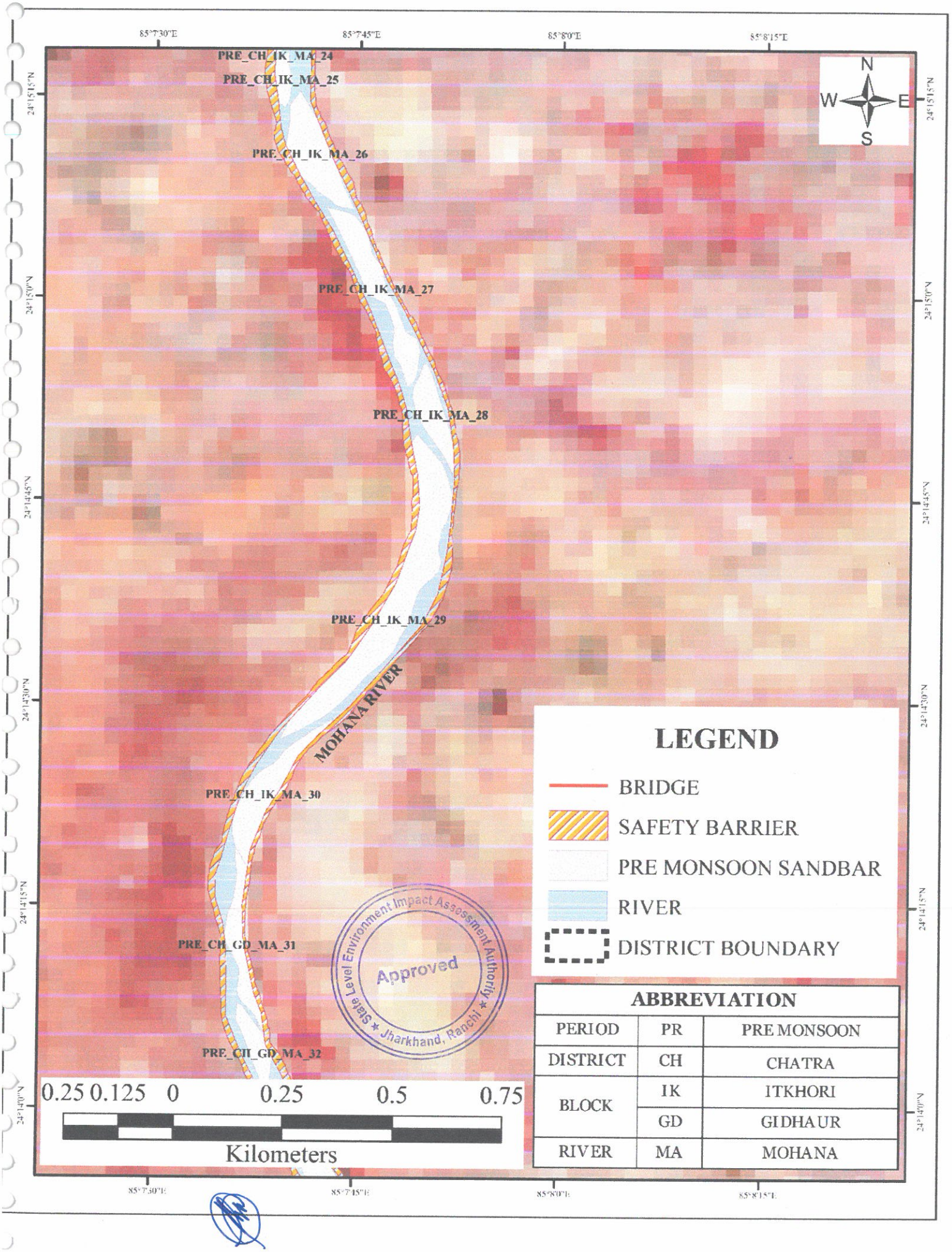
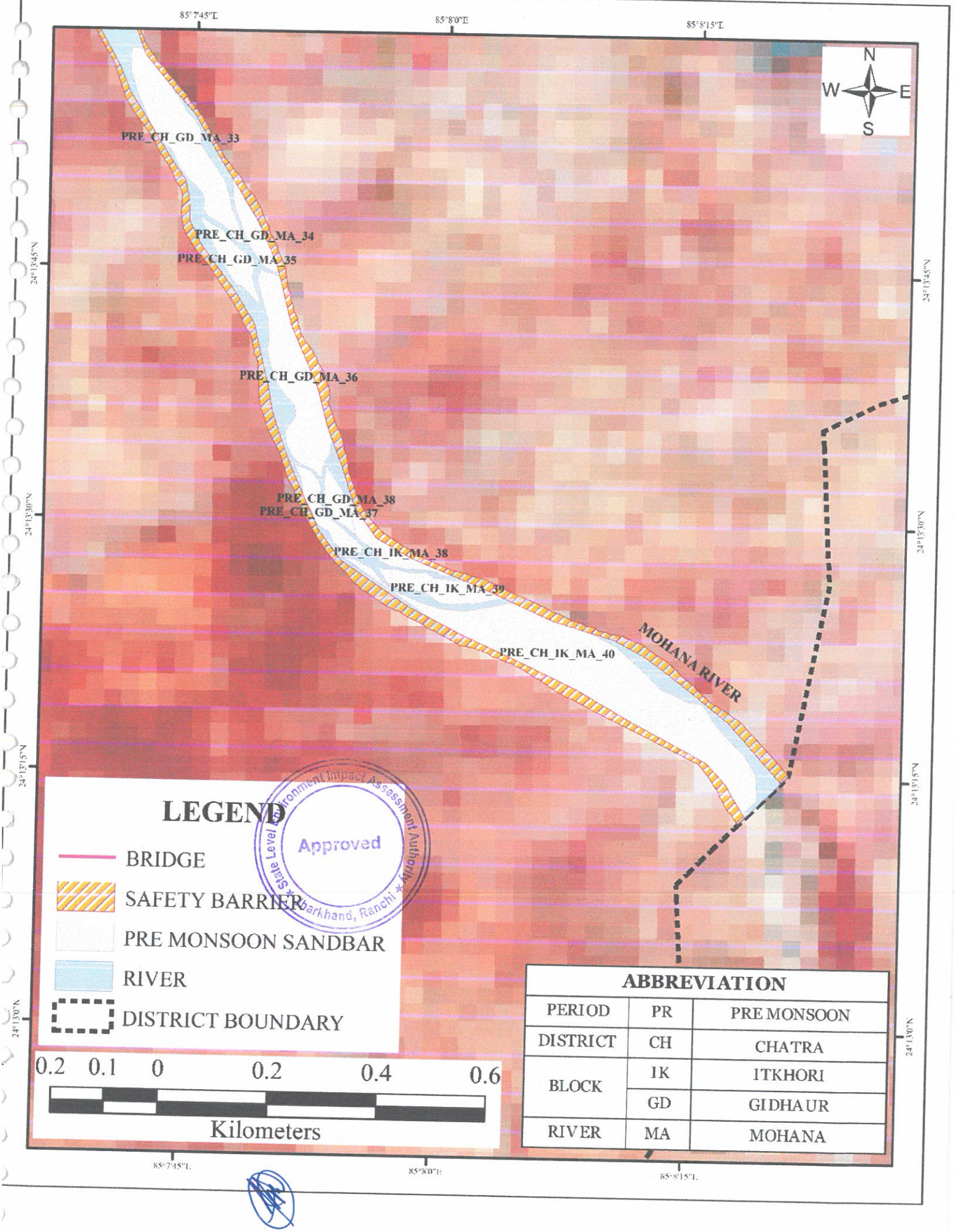
24°15'30"N
24°15'15"N
N
W
E
S
PRE_CH_IK_MA_20
PRE_CH_IK_MA_21
PRE_CH_IK_MA_22
PRE_CH_IK_MA_23
MOHANA RIVER
PRE_CH_IK_MA_24
PRE_CH_IK_MA_26
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
0.25 0.125 0 0.25 0.5 0.75
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK IK ITKHORI
RIVER MA MOHANA



ABBREVIATION		
PERIOD	PR	PRE MONSOON
DISTRICT	CH	CHATRA
BLOCK	IK	ITKHORI
	GD	GIDHAUR
RIVER	MA	MOHANA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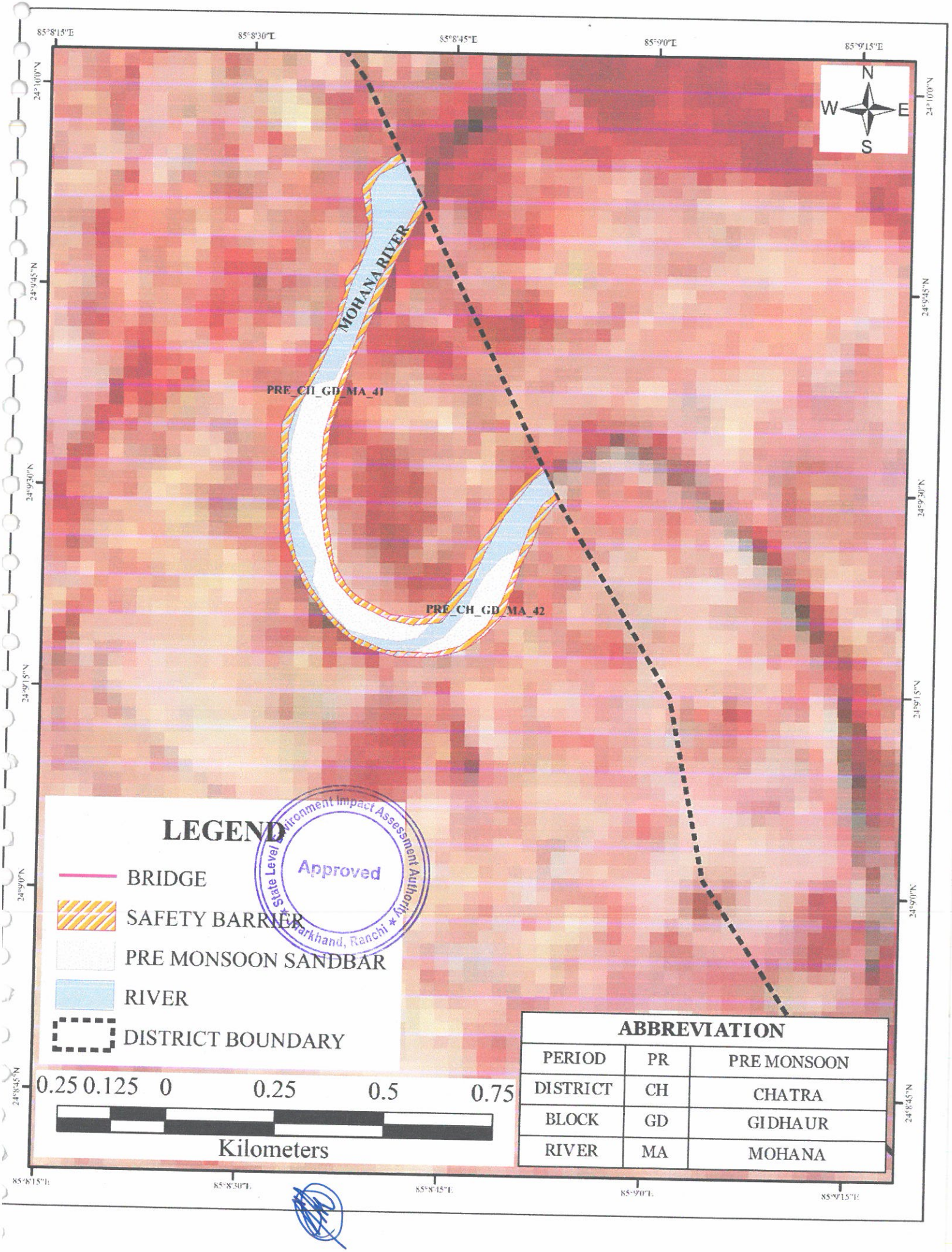
N
W
E
S
PRE_CH_GD_MA_33
PRE_CH_GD_MA_34
PRE_CH_GD_MA_35
PRE_CH_GD_MA_36
PRE_CH_GD_MA_38
PRE_CH_GD_MA_37
PRE_CH_IK_MA_38
PRE_CH_IK_MA_39
PRE_CH_IK_MA_40
MOHANA RIVER
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
0.2 0.1 0 0.2 0.4 0.6
Kilometers
ABBREVIATION
PERIOD | PR | PRE MONSOON
DISTRICT | CH | CHATRA
BLOCK | IK | ITKHORI
BLOCK | GD | GIDHAUR
RIVER | MA | MOHANA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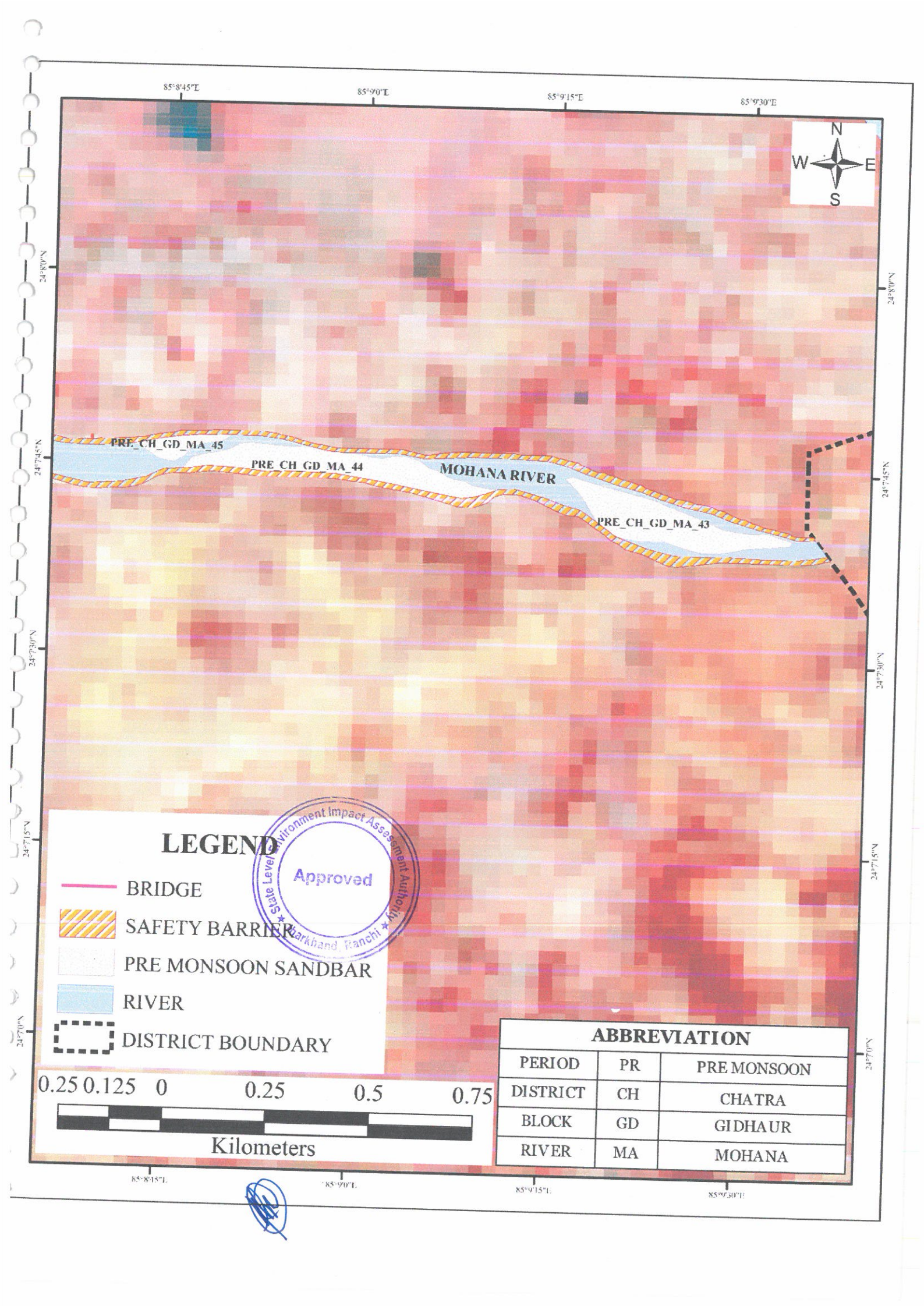
24°9'15"N
24°9'0"N
24°8'45"N
N
W
E
S
MOHANA RIVER
PRE_CH_GD_MA_41
PRE_CH_GD_MA_42
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
0.25 0.125 0 0.25 0.5 0.75
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK GD GIDHAUR
RIVER MA MOHANA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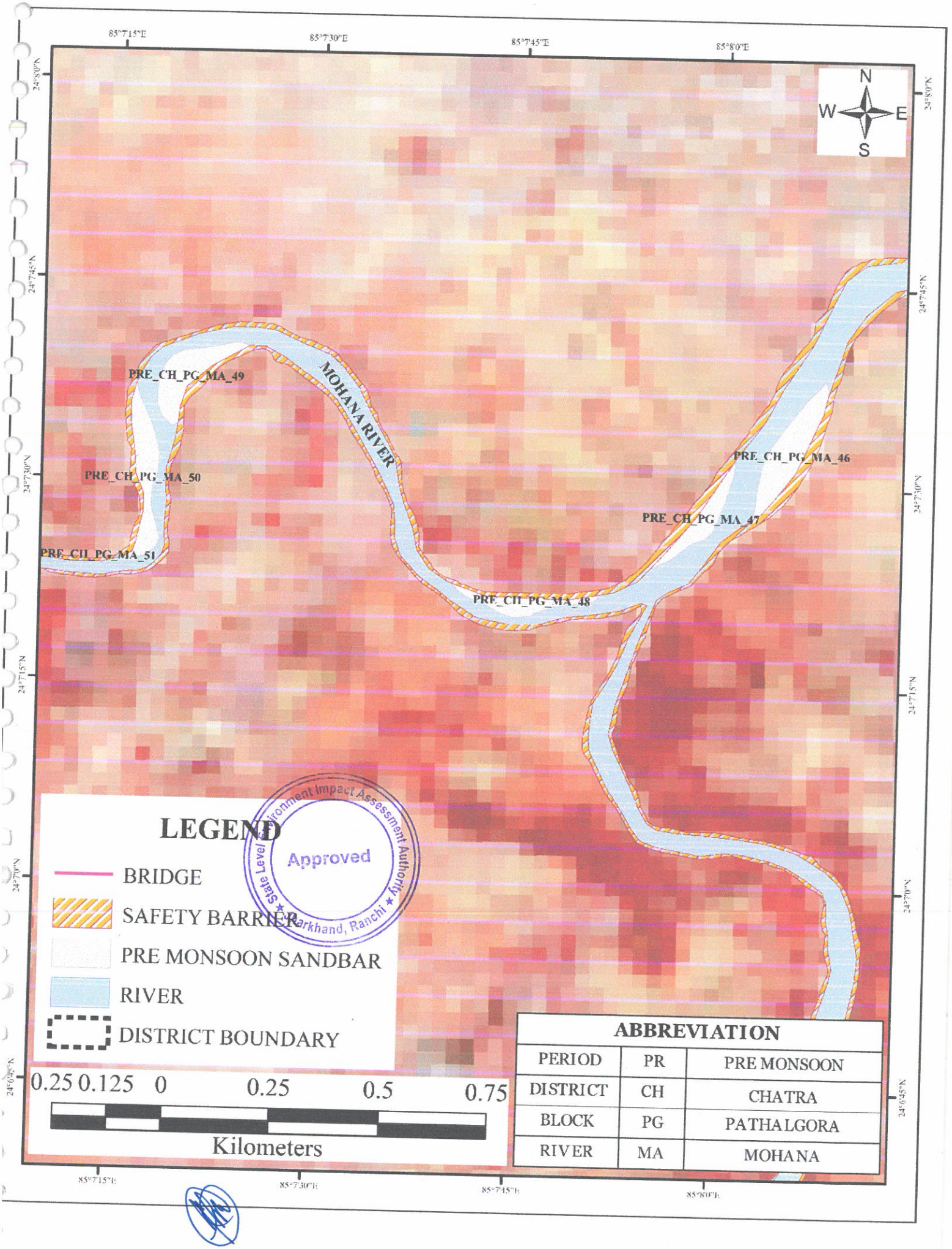
24°7'0"N
N
W
E
S
PRE_CH_GD_MA_45
PRE_CH_GD_MA_44
MOHANA RIVER
PRE_CH_GD_MA_43
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
0.25 0.125 0 0.25 0.5 0.75
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK GD GIDHAUR
RIVER MA MOHANA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24°8'0"N
24°7'45"N
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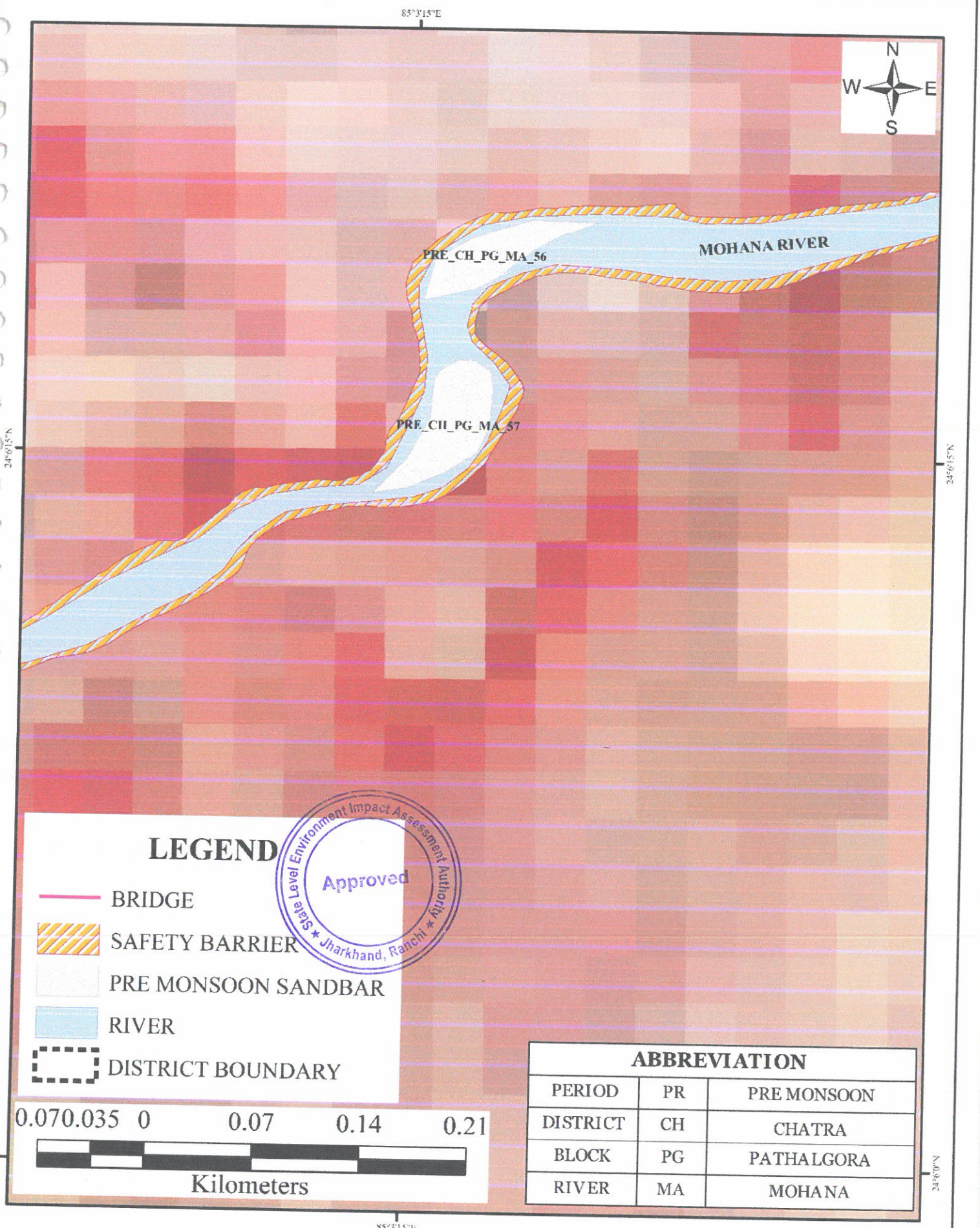
24°7'0"N
24°6'45"N
N
W
E
S
PRE_CH_PG_MA_49
MOHANA RIVER
PRE_CH_PG_MA_50
PRE_CH_PG_MA_51
PRE_CH_PG_MA_46
PRE_CH_PG_MA_47
PRE_CH_PG_MA_48
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
0.25 0.125 0 0.25 0.5 0.75
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK PG PATHALGORA
RIVER MA MOHANA


85°3'15"E
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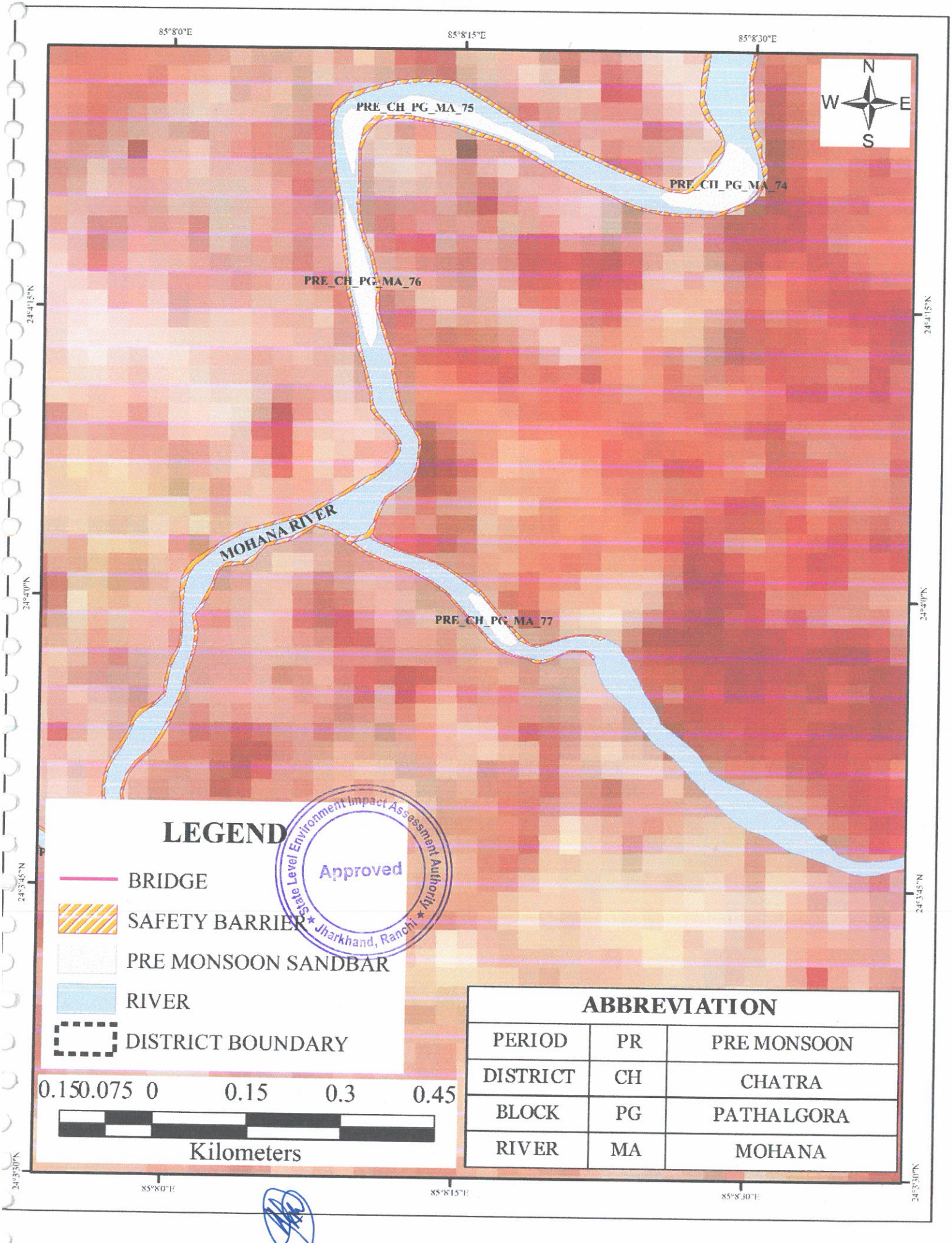
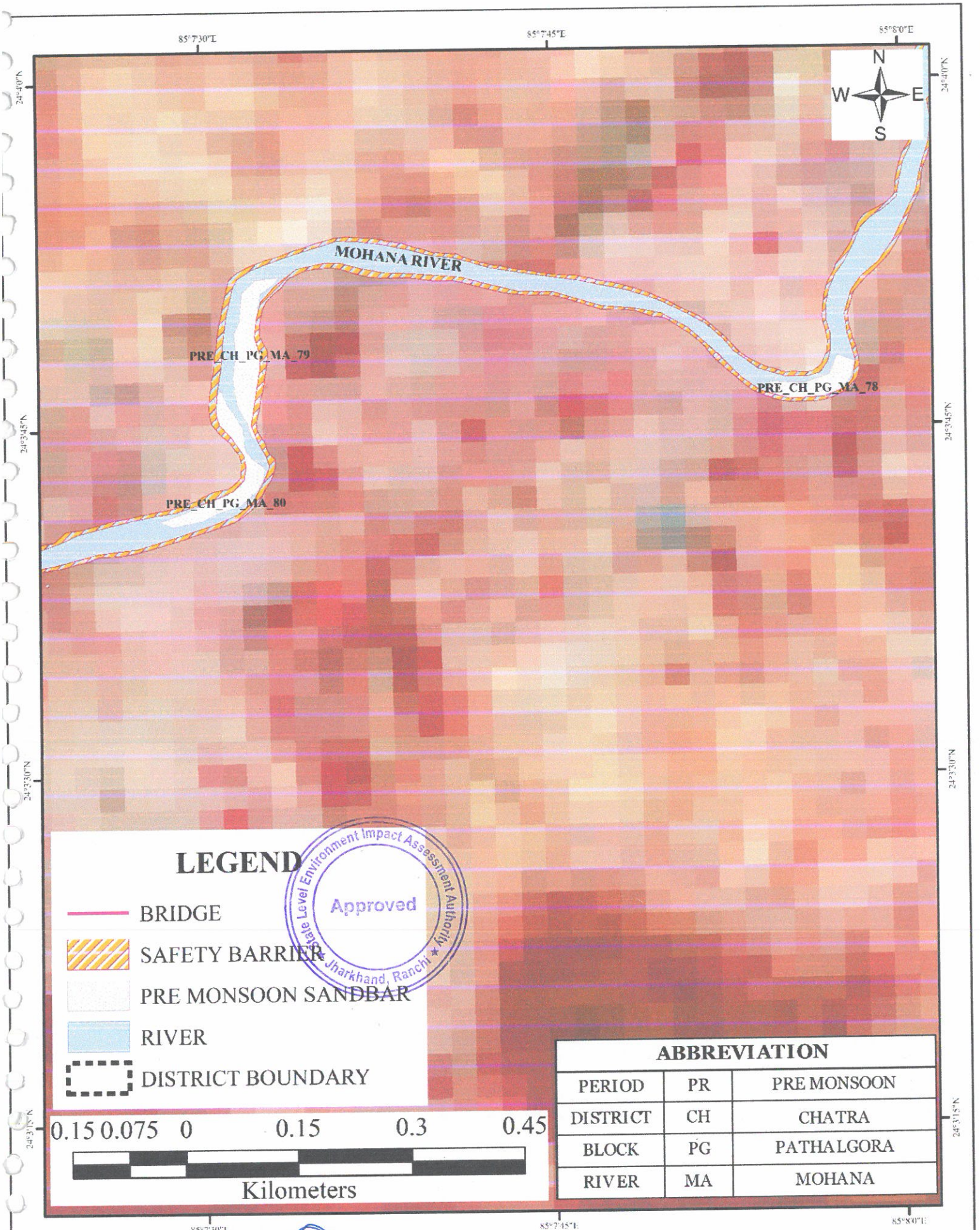
W
E
S
PRE_CH_PG_MA_56
MOHANA RIVER
PRE_CH_PG_MA_57
24°6'15"N
24°6'0"N
85°3'15"E
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
0.070.035 0 0.07 0.14 0.21
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK PG PATHALGORA
RIVER MA MOHANA



ABBREVIATION		
PERIOD	PR	PRE MONSOON
DISTRICT	CH	CHATRA
BLOCK	PG	PATHALGORA
RIVER	MA	MOHANA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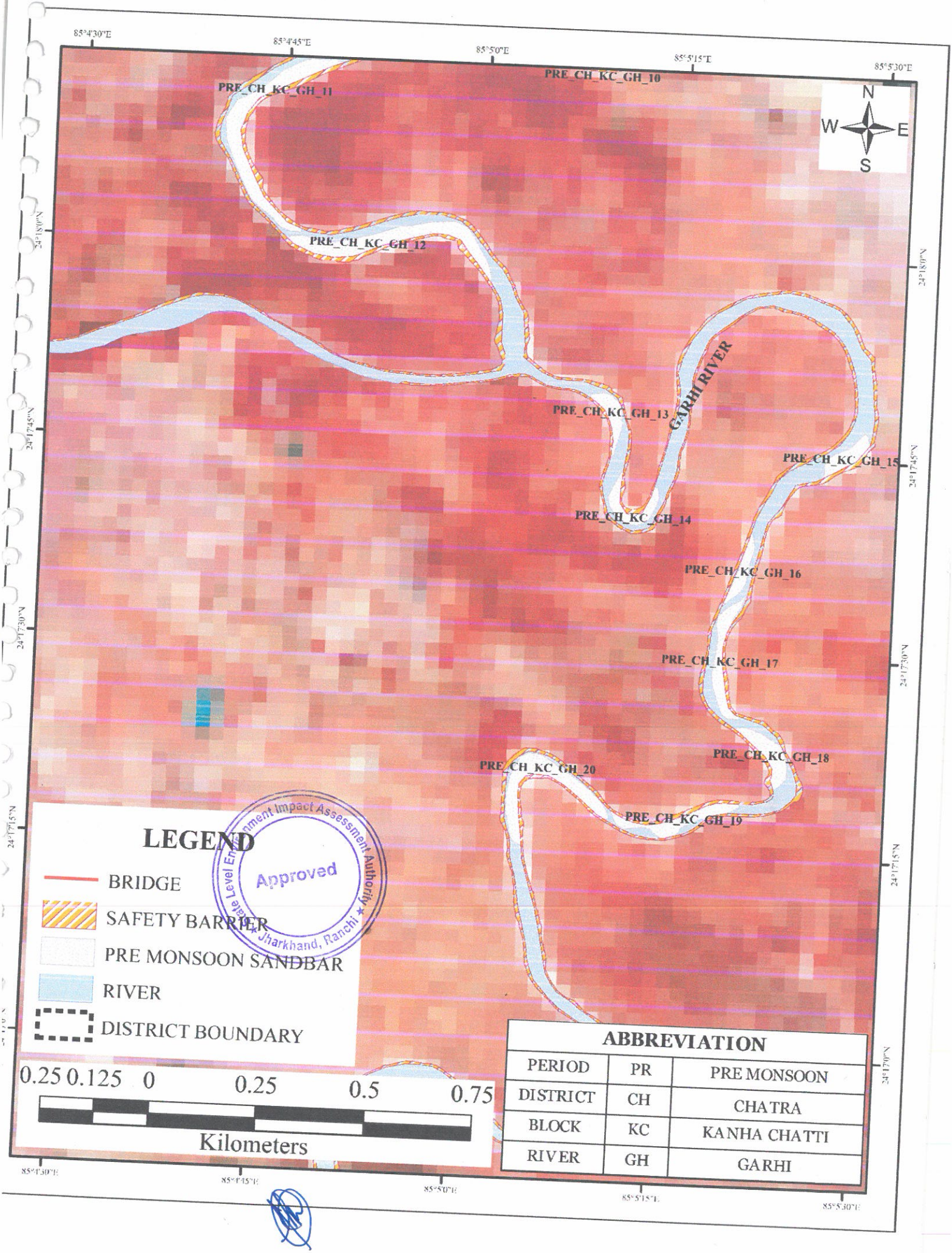
85°7'45"E
85°8'0"E
24°4'0"N
24°3'45"N
24°3'30"N
24°3'15"N
N
W
E
S
MOHANA RIVER
PRE_CH_PG_MA_79
PRE_CH_PG_MA_78
PRE_CH_PG_MA_80
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
0.15 0.075 0 0.15 0.3 0.45
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK PG PATHALGORA
RIVER MA MOHANA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85°5'30"E
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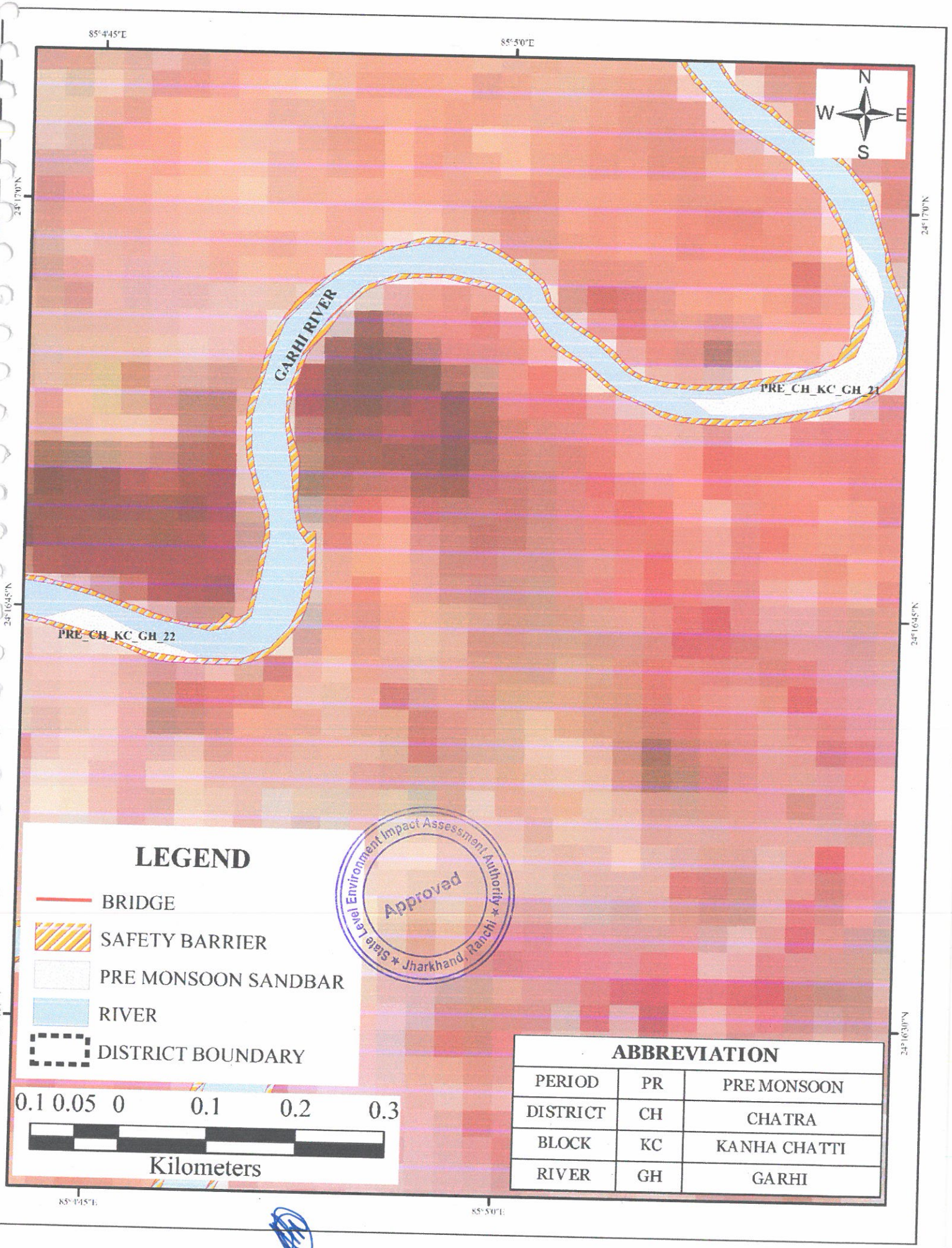
24°17'15"N
24°17'0"N
PRE_CH_KC_GH_11
PRE_CH_KC_GH_10
PRE_CH_KC_GH_12
PRE_CH_KC_GH_13
GARHI RIVER
PRE_CH_KC_GH_15
PRE_CH_KC_GH_14
PRE_CH_KC_GH_16
PRE_CH_KC_GH_17
PRE_CH_KC_GH_18
PRE_CH_KC_GH_20
PRE_CH_KC_GH_19
N
W
E
S
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
0.25 0.125 0 0.25 0.5 0.75
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK KC KANHA CHATTI
RIVER GH GARHI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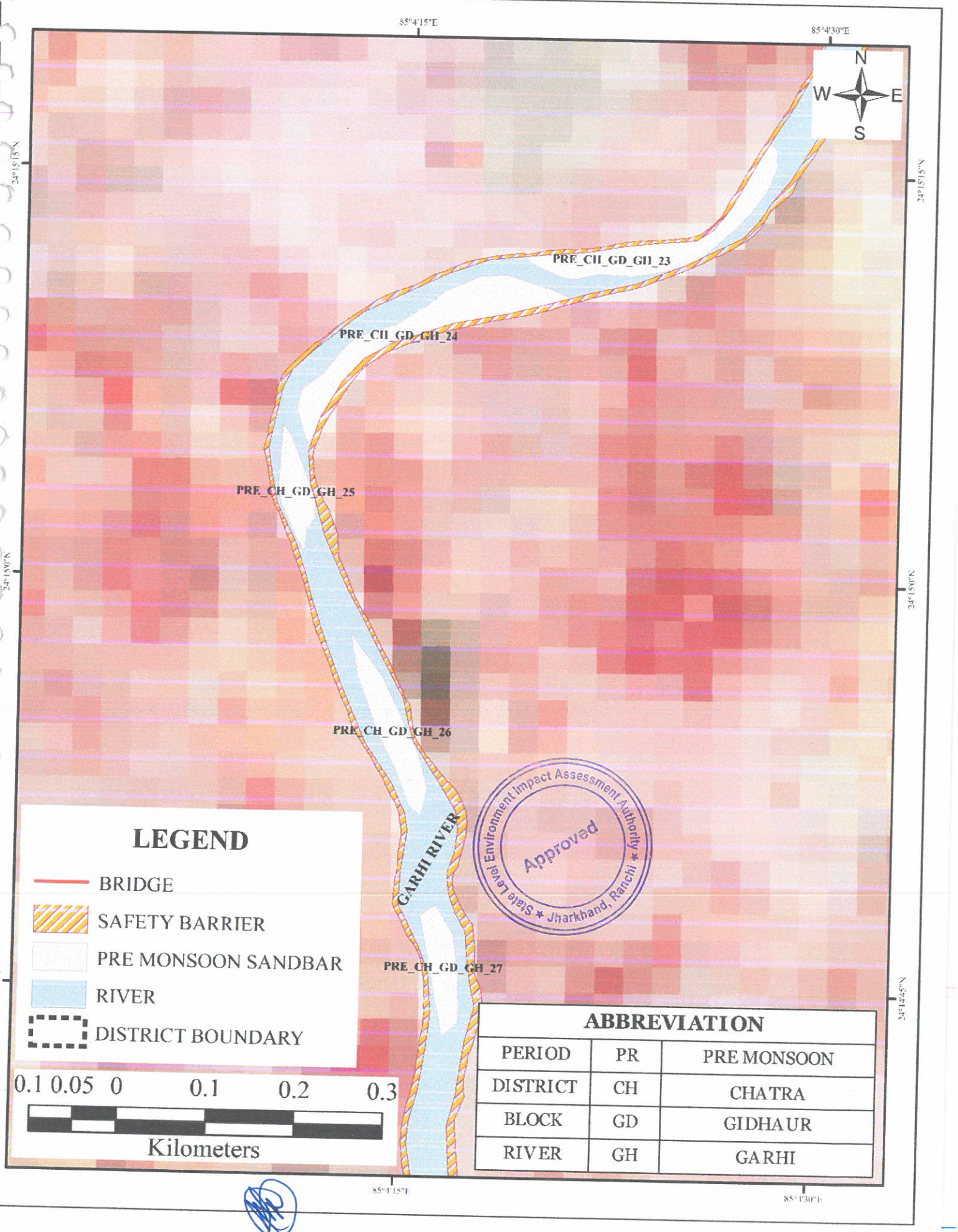
24°17'0"N
24°16'45"N
24°16'30"N
N
W
E
S
GARHI RIVER
PRE_CH_KC_GH_21
PRE_CH_KC_GH_22
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority * Jharkhand, Ranchi *
Approved
0.1 0.05 0 0.1 0.2 0.3
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK KC KANHA CHATTI
RIVER GH GARHI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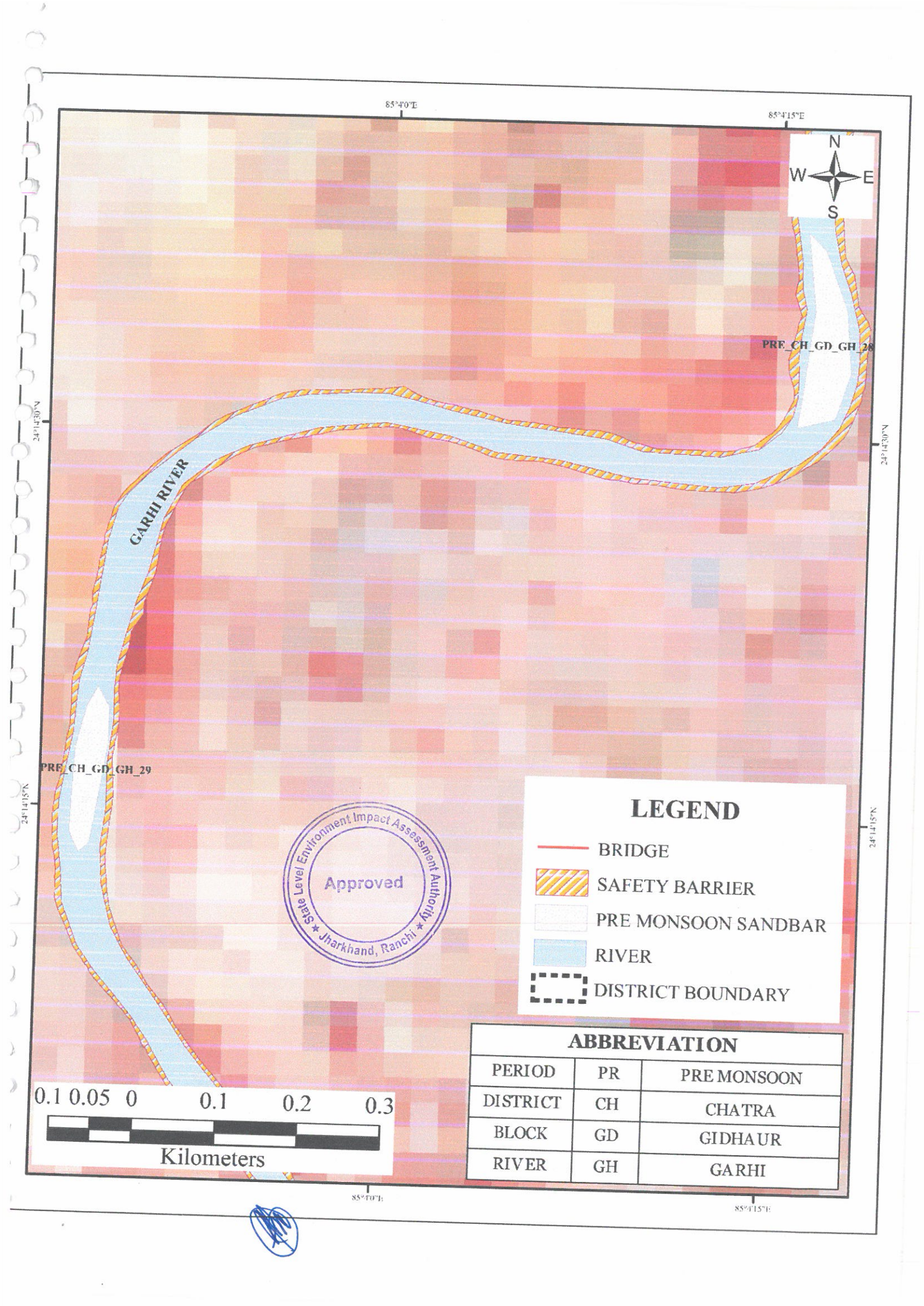
24°14'45"N
N
W
E
S
PRE_CH_GD_GH_23
PRE_CH_GD_GH_24
PRE_CH_GD_GH_25
PRE_CH_GD_GH_26
PRE_CH_GD_GH_27
GARHI RIVER
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
0.1 0.05 0 0.1 0.2 0.3
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK GD GIDHAUR
RIVER GH GARHI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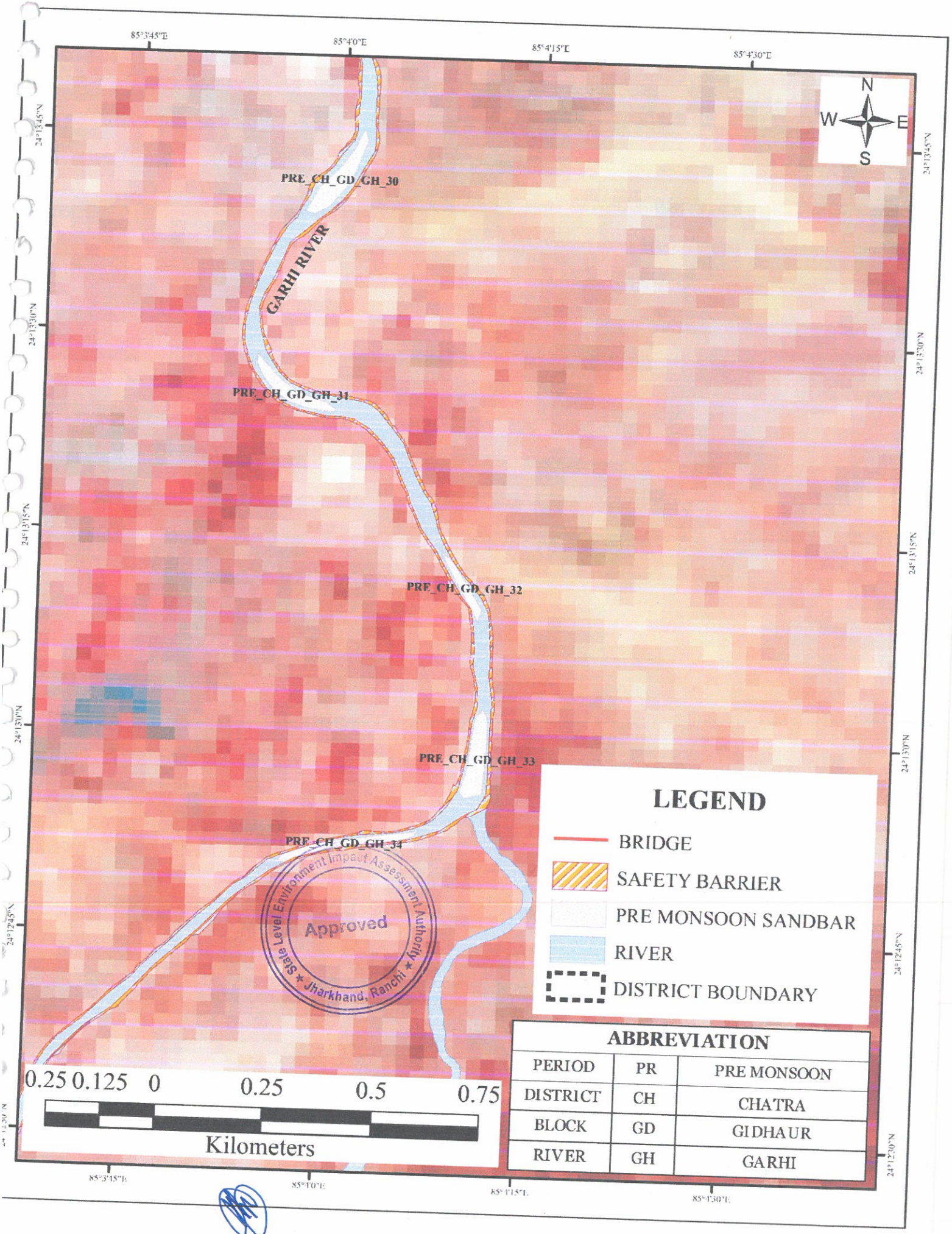
24°14'15"N
N
W
E
S
PRE_CH_GD_GH_28
GARHI RIVER
PRE_CH_GD_GH_29
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK GD GIDHAUR
RIVER GH GARHI
0.1 0.05 0 0.1 0.2 0.3
Kilometers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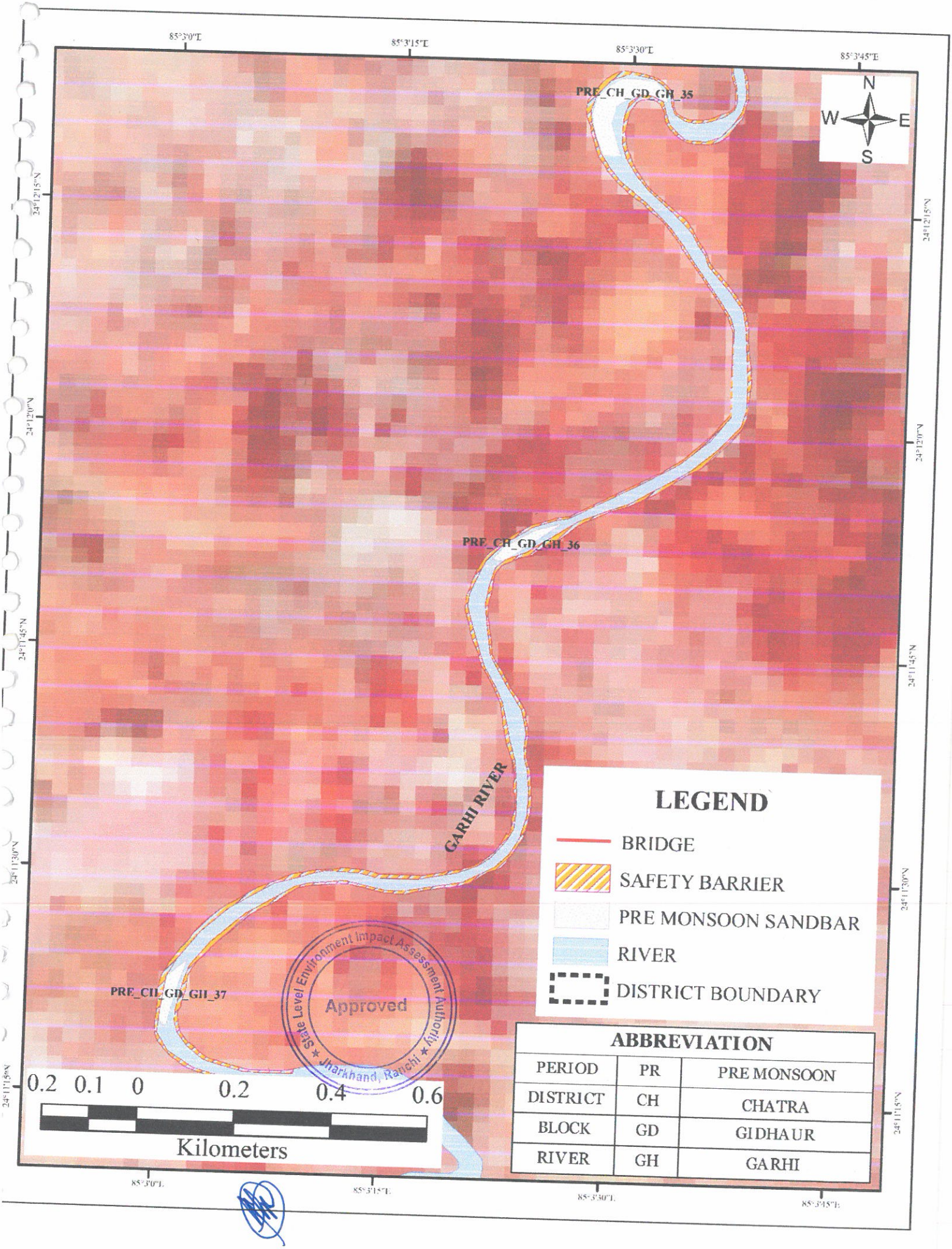
24°13'30"N
24°13'15"N
24°13'0"N
24°12'45"N
24°12'30"N
N
W
E
S
PRE_CH_GD_GH_30
GARHI RIVER
PRE_CH_GD_GH_31
PRE_CH_GD_GH_32
PRE_CH_GD_GH_33
PRE_CH_GD_GH_34
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK GD GIDHAUR
RIVER GH GARHI
0.25 0.125 0 0.25 0.5 0.75
Kilometers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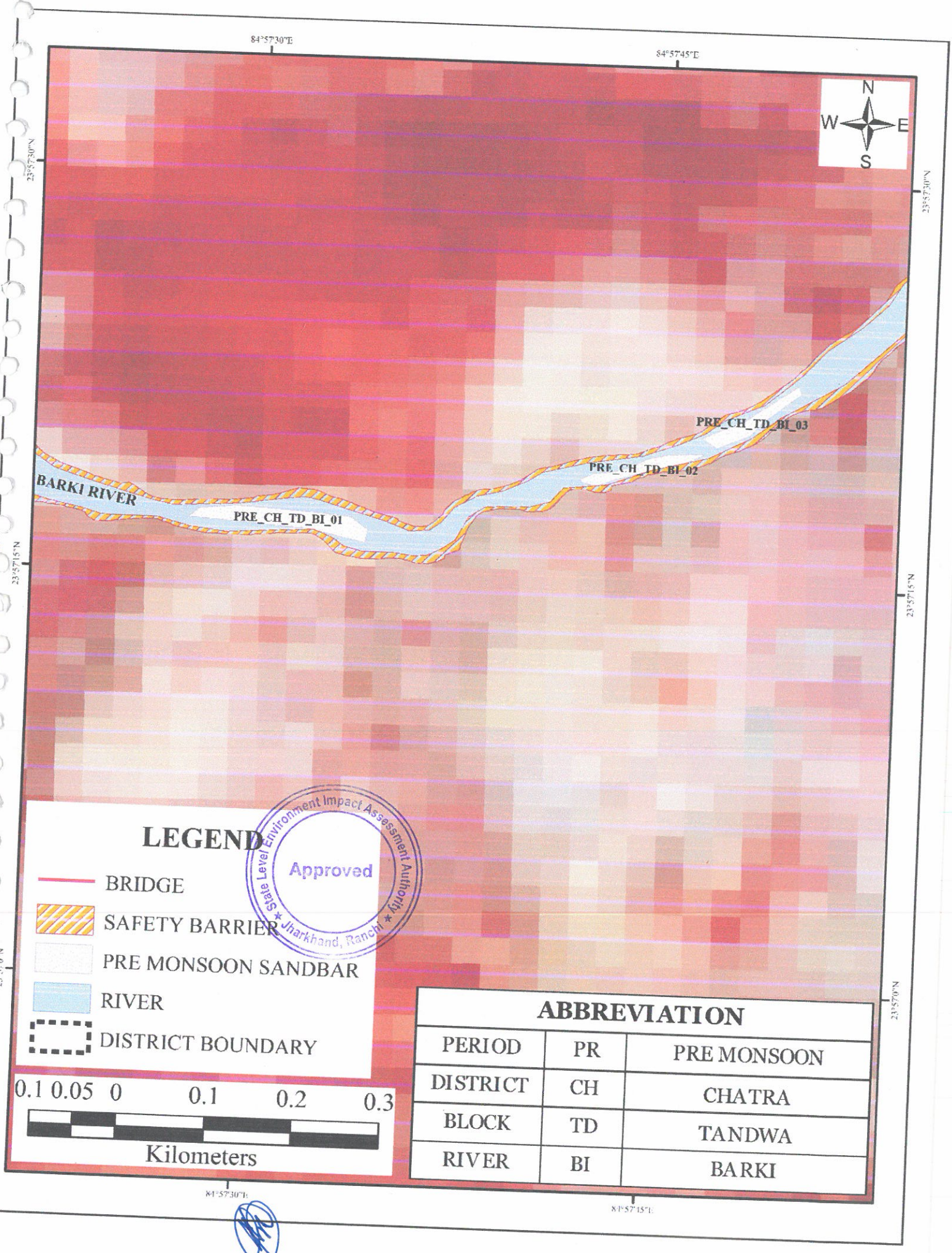
24°11'30"N
24°11'15"N
N
W
E
S
PRE_CH_GD_GH_35
PRE_CH_GD_GH_36
PRE_CH_GD_GH_37
GARHI RIVER
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK GD GIDHAUR
RIVER GH GARHI
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
0.2 0.1 0 0.2 0.4 0.6
Kilometers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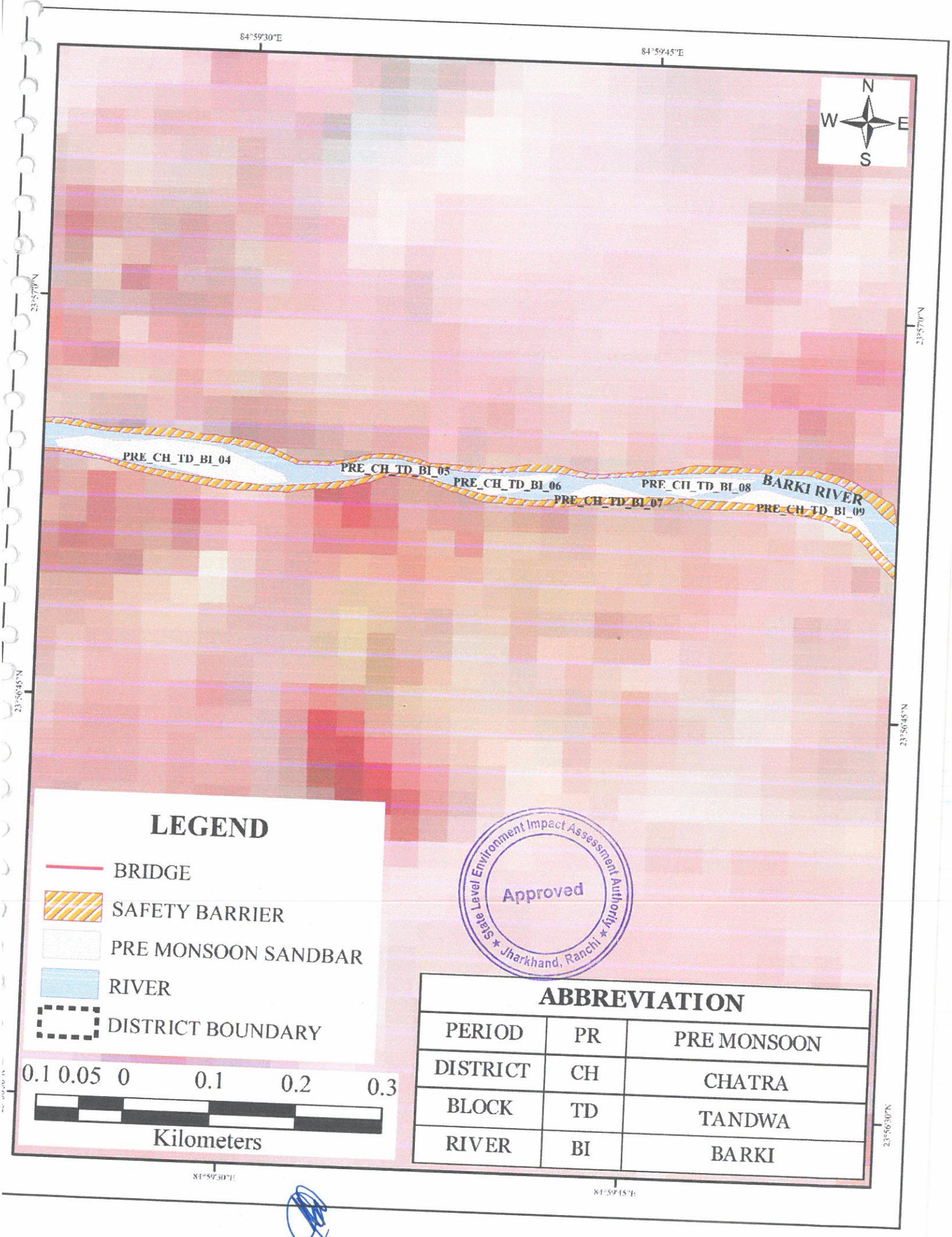
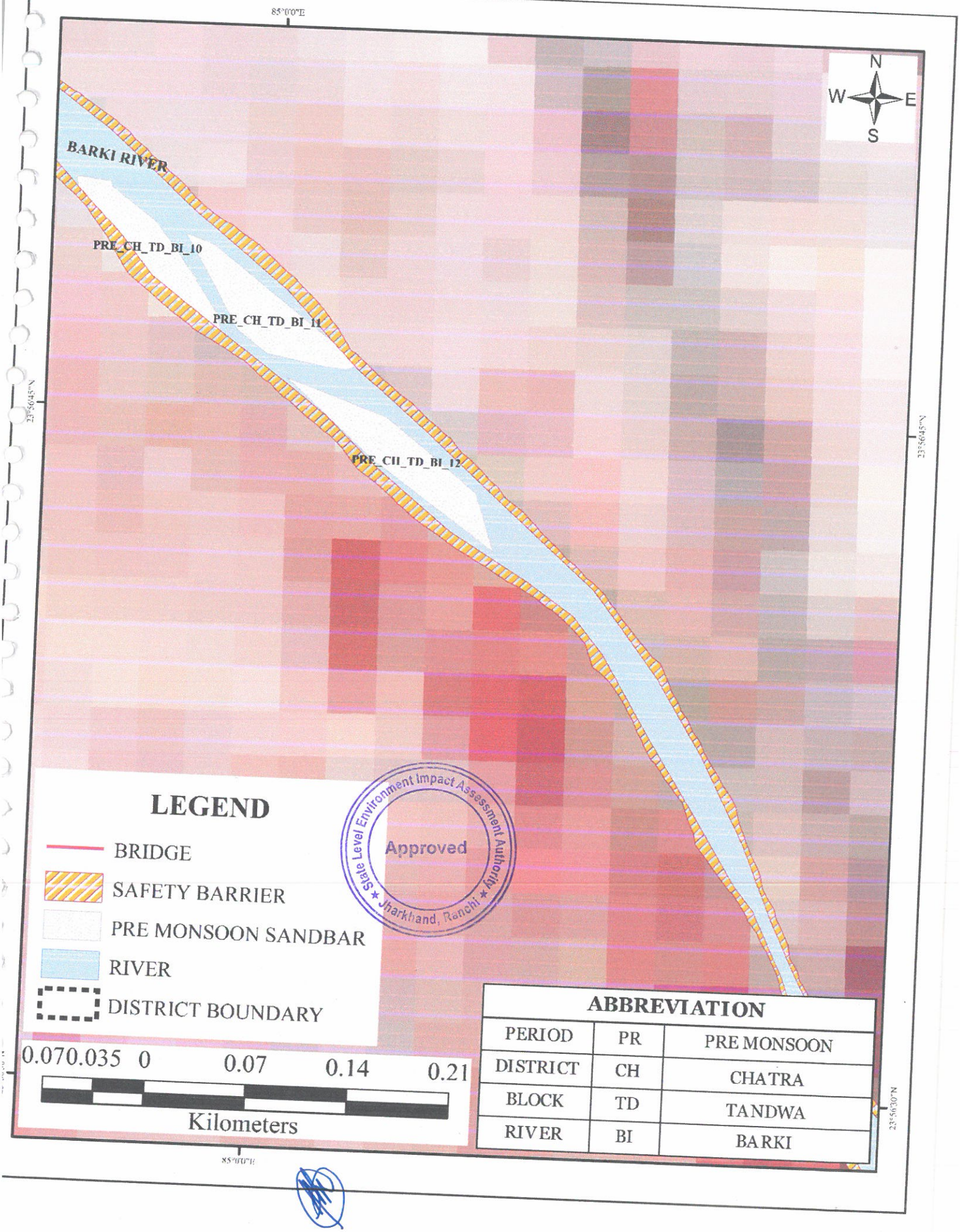
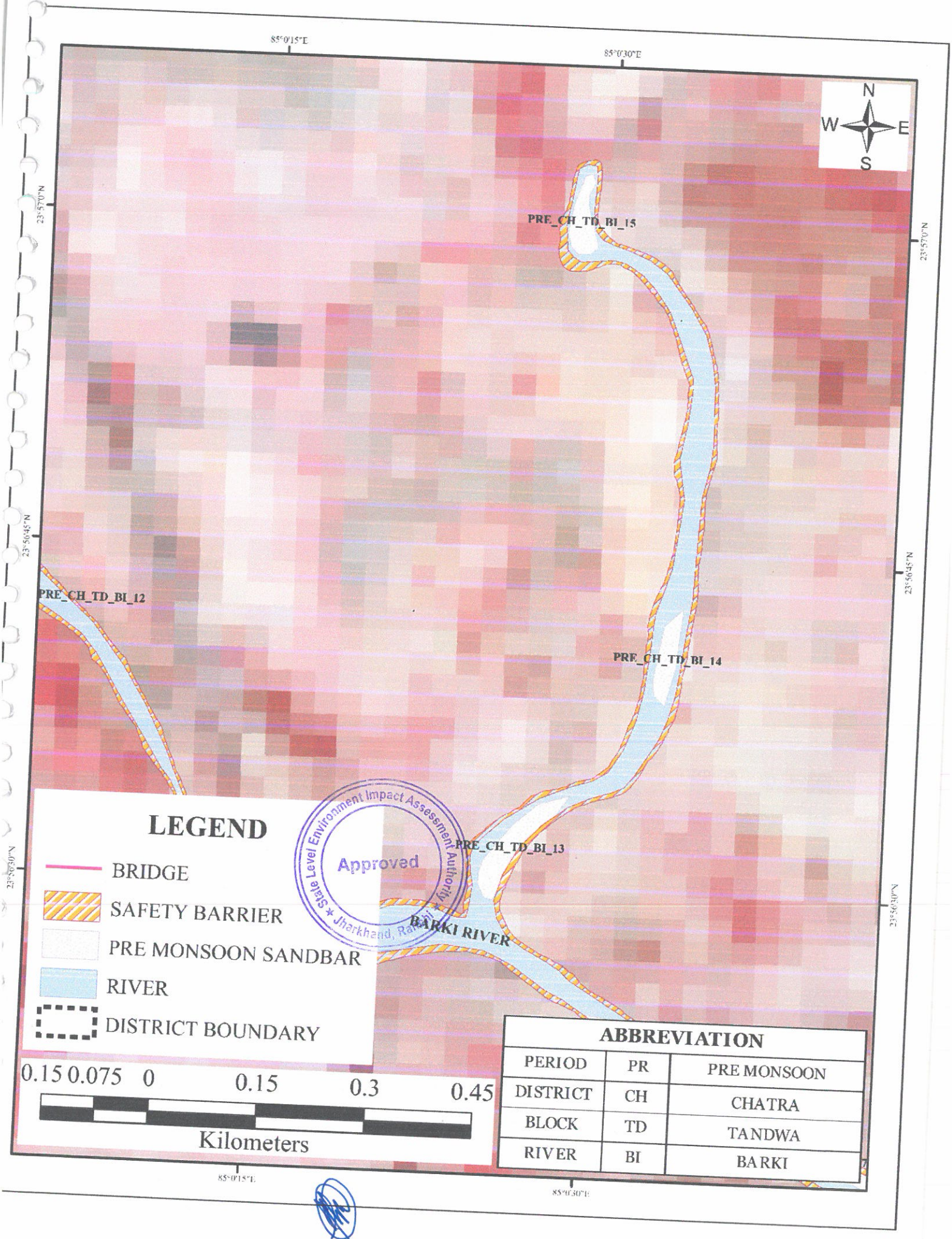
23°57'15"N
23°57'0"N
N
W
E
S
BARKI RIVER
PRE_CH_TD_BI_01
PRE_CH_TD_BI_02
PRE_CH_TD_BI_03
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
0.1 0.05 0 0.1 0.2 0.3
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK TD TANDWA
RIVER BI BARKI



ABBREVIATION		
PERIOD	PR	PRE MONSOON
DISTRICT	CH	CHATRA
BLOCK	TD	TANDWA
RIVER	BI	BARKI


85°0'0"E
N
W
E
S
BARKI RIVER
PRE_CH_TD_BI_10
PRE_CH_TD_BI_11
PRE_CH_TD_BI_12
23°56'45"N
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
0.070.035 0 0.07 0.14 0.21
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK TD TANDWA
RIVER BI BARKI
23°56'30"N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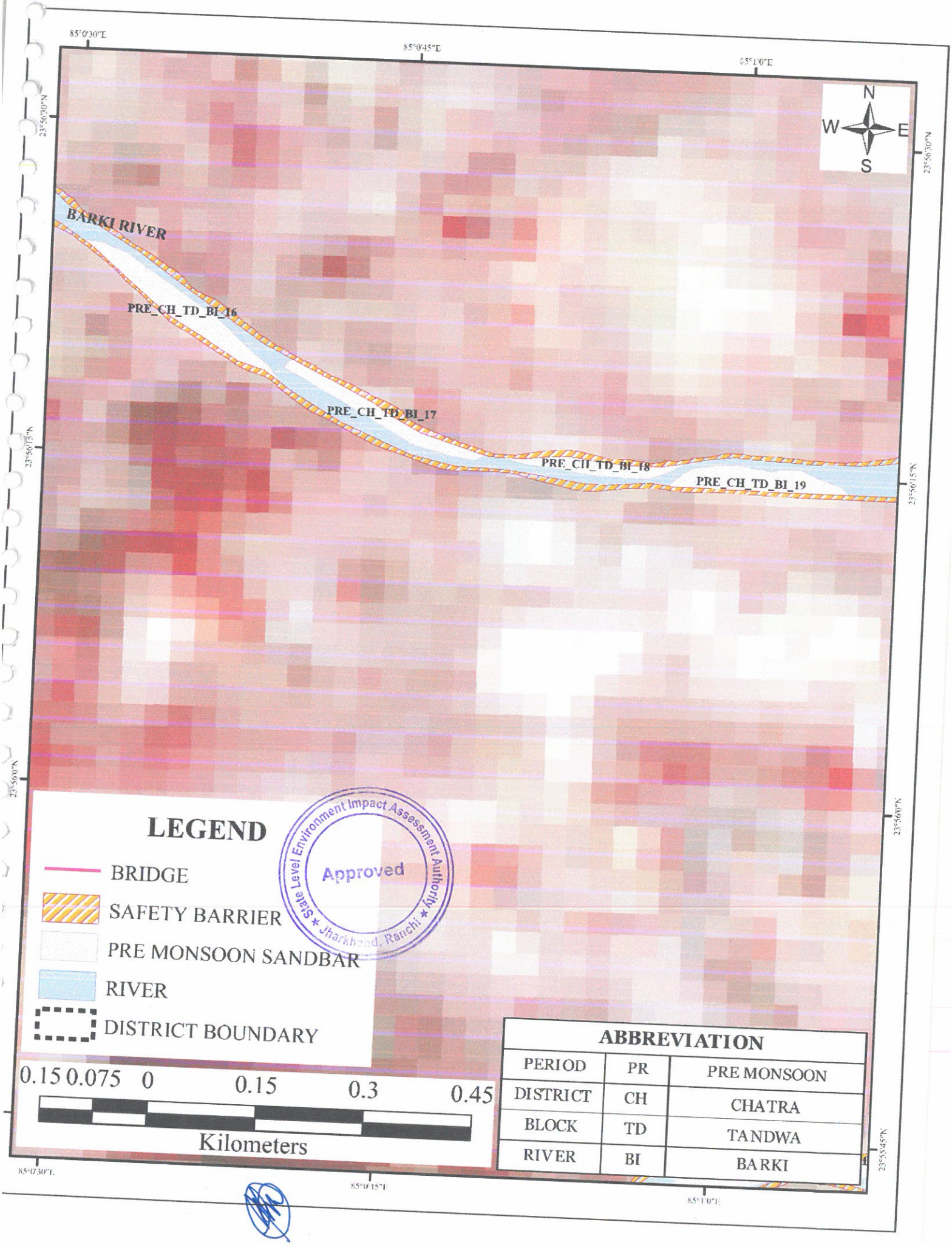
85°0'30"E
23°57'0"N
23°56'45"N
23°56'30"N
N
W
E
S
PRE_CH_TD_BI_15
PRE_CH_TD_BI_12
PRE_CH_TD_BI_14
PRE_CH_TD_BI_13
BARKI RIVER
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
0.15 0.075 0 0.15 0.3 0.45
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK TD TANDWA
RIVER BI BARKI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W
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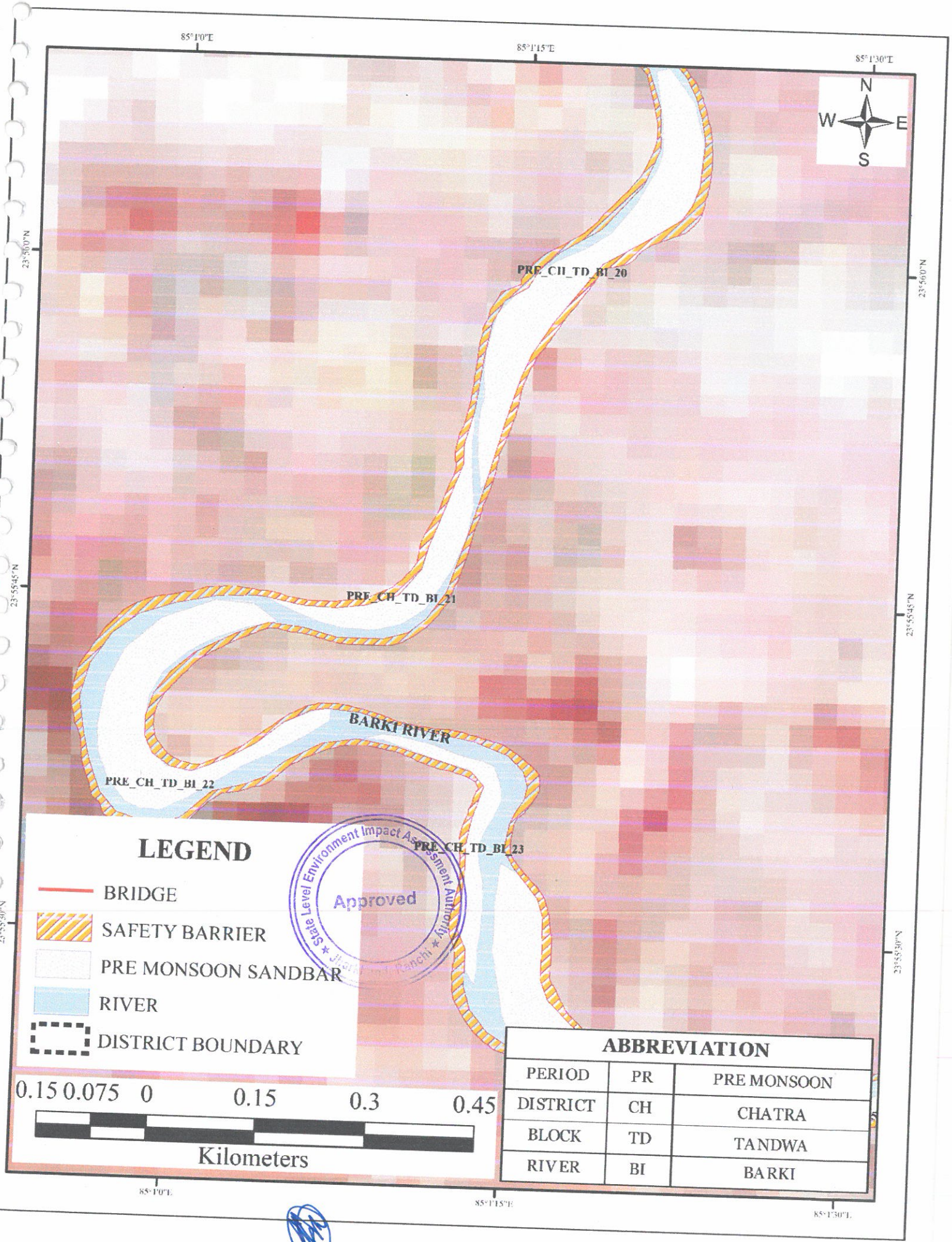
S
BARKI RIVER
PRE_CH_TD_BI_16
PRE_CH_TD_BI_17
PRE_CH_TD_BI_18
PRE_CH_TD_BI_19
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
0.15 0.075 0 0.15 0.3 0.45
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK TD TANDWA
RIVER BI BARKI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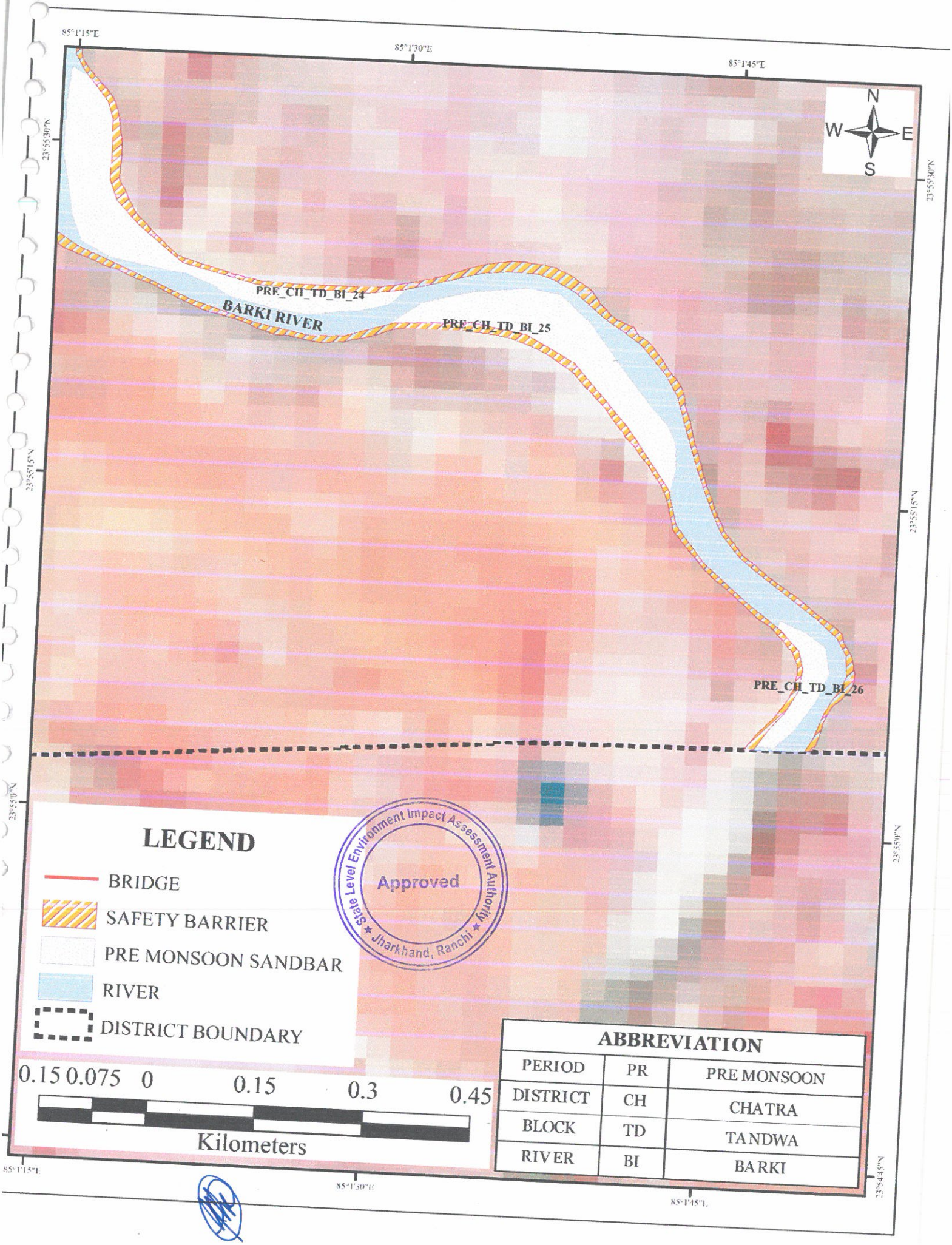
23°55'30"N
N
W
E
S
PRE_CH_TD_BI_20
PRE_CH_TD_BI_21
BARKI RIVER
PRE_CH_TD_BI_22
PRE_CH_TD_BI_23
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
0.15 0.075 0 0.15 0.3 0.45
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK TD TANDWA
RIVER BI BARKI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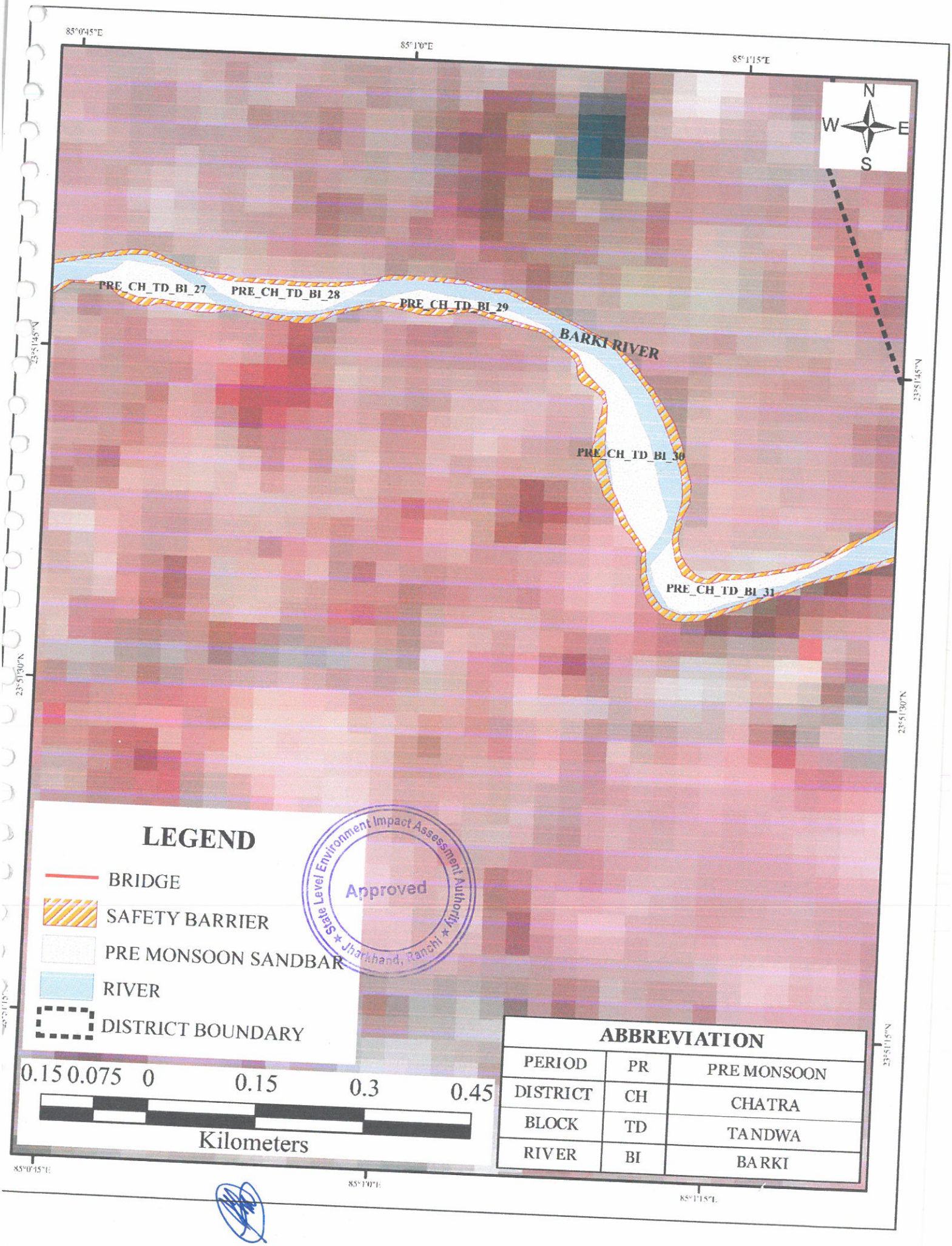
85°1'30"E
85°1'45"E
23°55'30"N
23°55'15"N
23°55'0"N
23°54'45"N
N
W
E
S
PRE_CH_TD_BI_24
BARKI RIVER
PRE_CH_TD_BI_25
PRE_CH_TD_BI_26
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
0.15 0.075 0 0.15 0.3 0.45
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK TD TANDWA
RIVER BI BARKI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W
E
S
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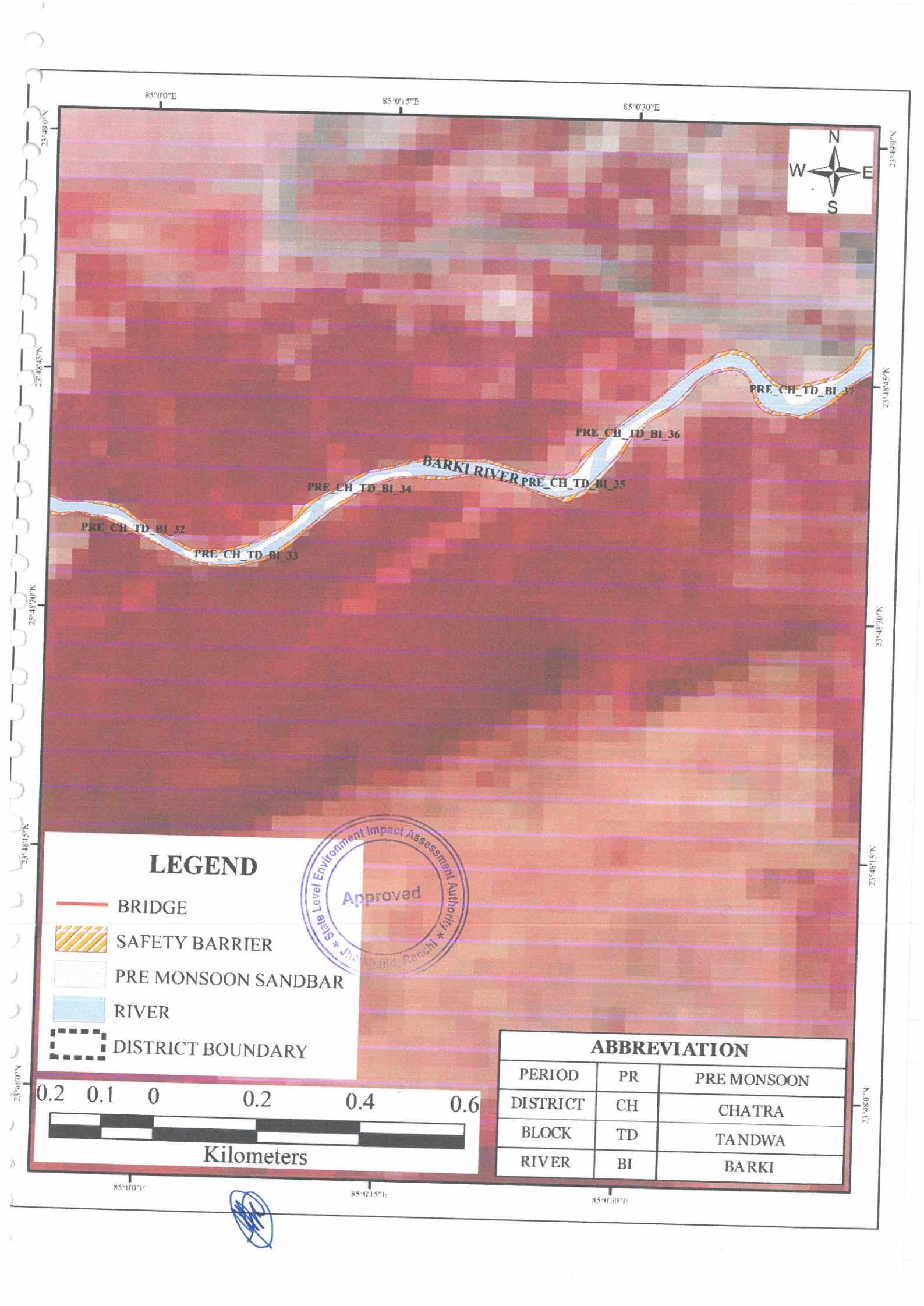
PRE_CH_TD_BI_28
PRE_CH_TD_BI_29
BARKI RIVER
PRE_CH_TD_BI_30
PRE_CH_TD_BI_31
23°51'45"N
23°51'30"N
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
0.15 0.075 0 0.15 0.3 0.45
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK TD TANDWA
RIVER BI BARKI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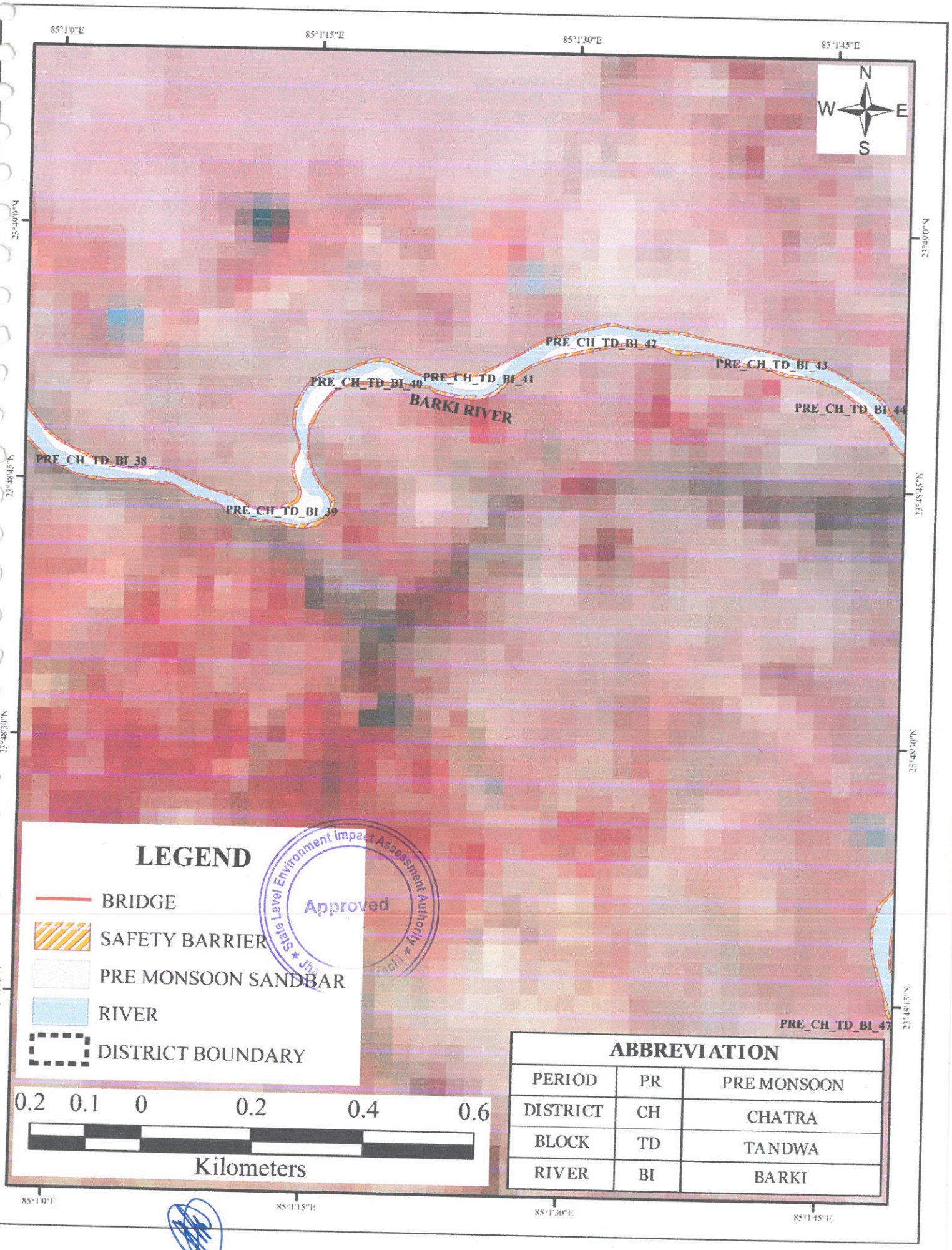
W
E
S
PRE_CH_TD_BI_37
PRE_CH_TD_BI_36
BARKI RIVER
PRE_CH_TD_BI_35
PRE_CH_TD_BI_34
PRE_CH_TD_BI_32
PRE_CH_TD_BI_33
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
0.2 0.1 0 0.2 0.4 0.6
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK TD TANDWA
RIVER BI BARKI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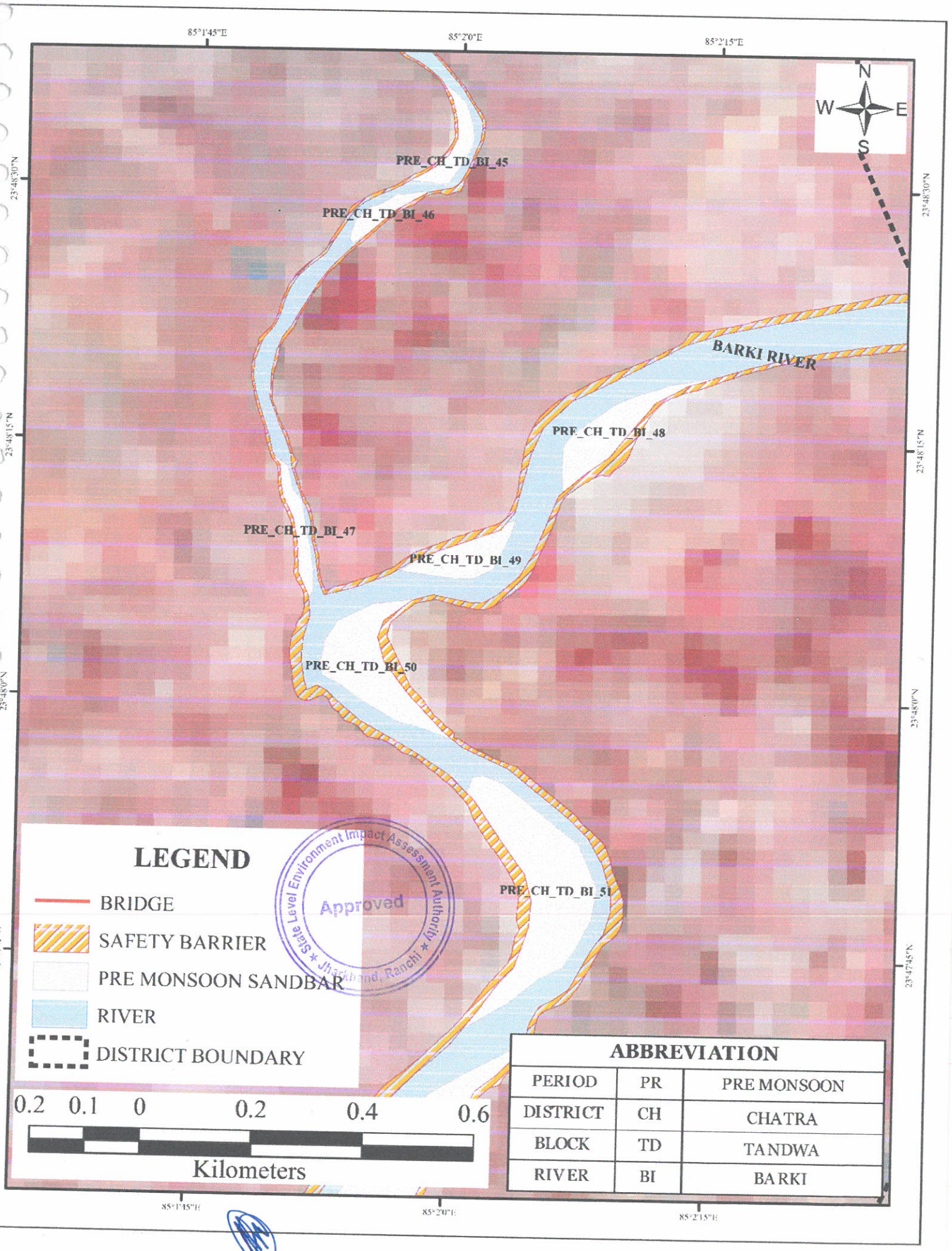
23°48'30"N
23°48'15"N
PRE_CH_TD_BI_38
PRE_CH_TD_BI_39
PRE_CH_TD_BI_40
PRE_CH_TD_BI_41
PRE_CH_TD_BI_42
PRE_CH_TD_BI_43
PRE_CH_TD_BI_44
PRE_CH_TD_BI_47
BARKI RIVER
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
0.2 0.1 0 0.2 0.4 0.6
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK TD TANDWA
RIVER BI BARKI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S
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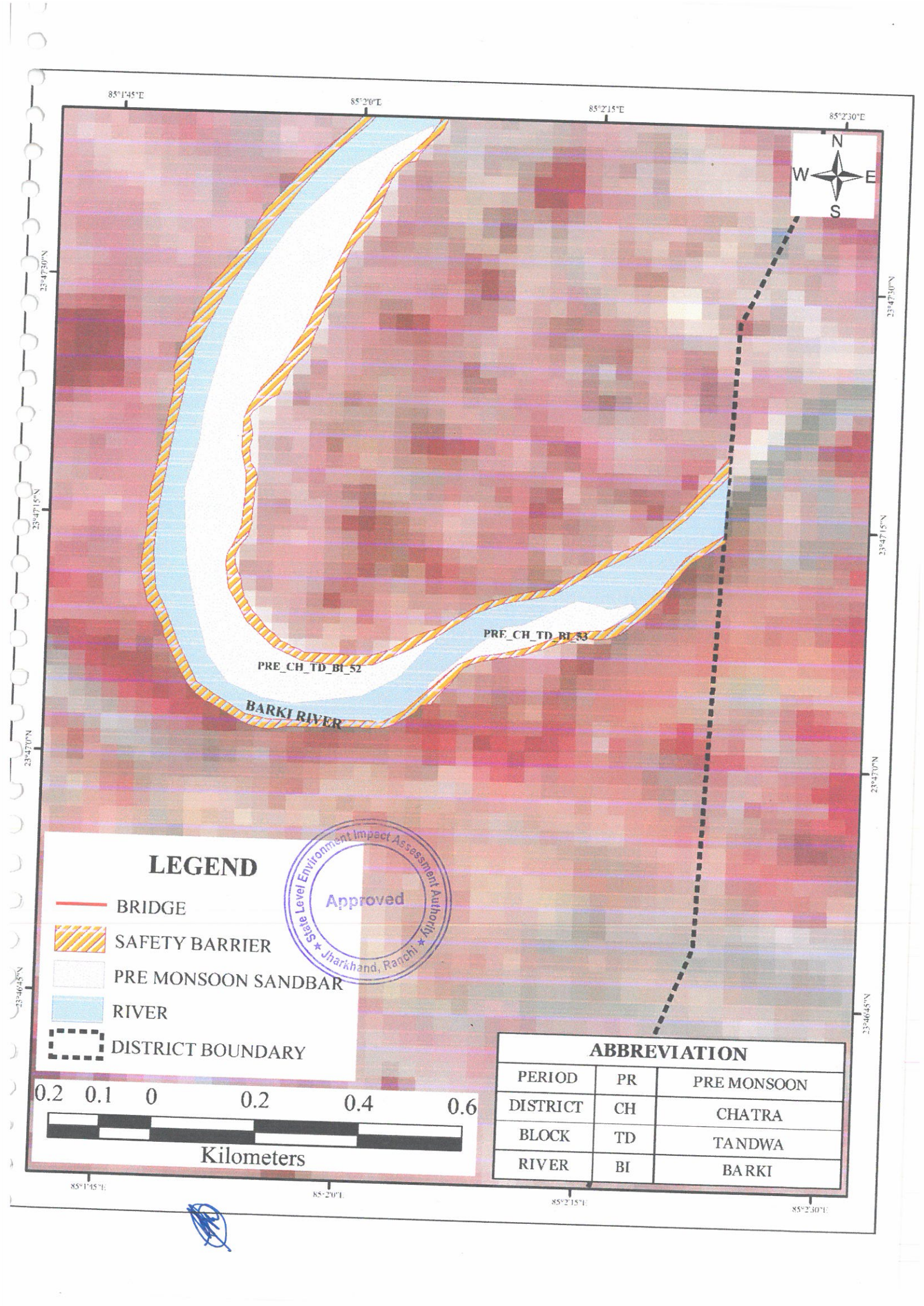
PRE_CH_TD_BI_46
BARKI RIVER
PRE_CH_TD_BI_48
PRE_CH_TD_BI_47
PRE_CH_TD_BI_49
PRE_CH_TD_BI_50
PRE_CH_TD_BI_51
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
0.2 0.1 0 0.2 0.4 0.6
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK TD TANDWA
RIVER BI BARKI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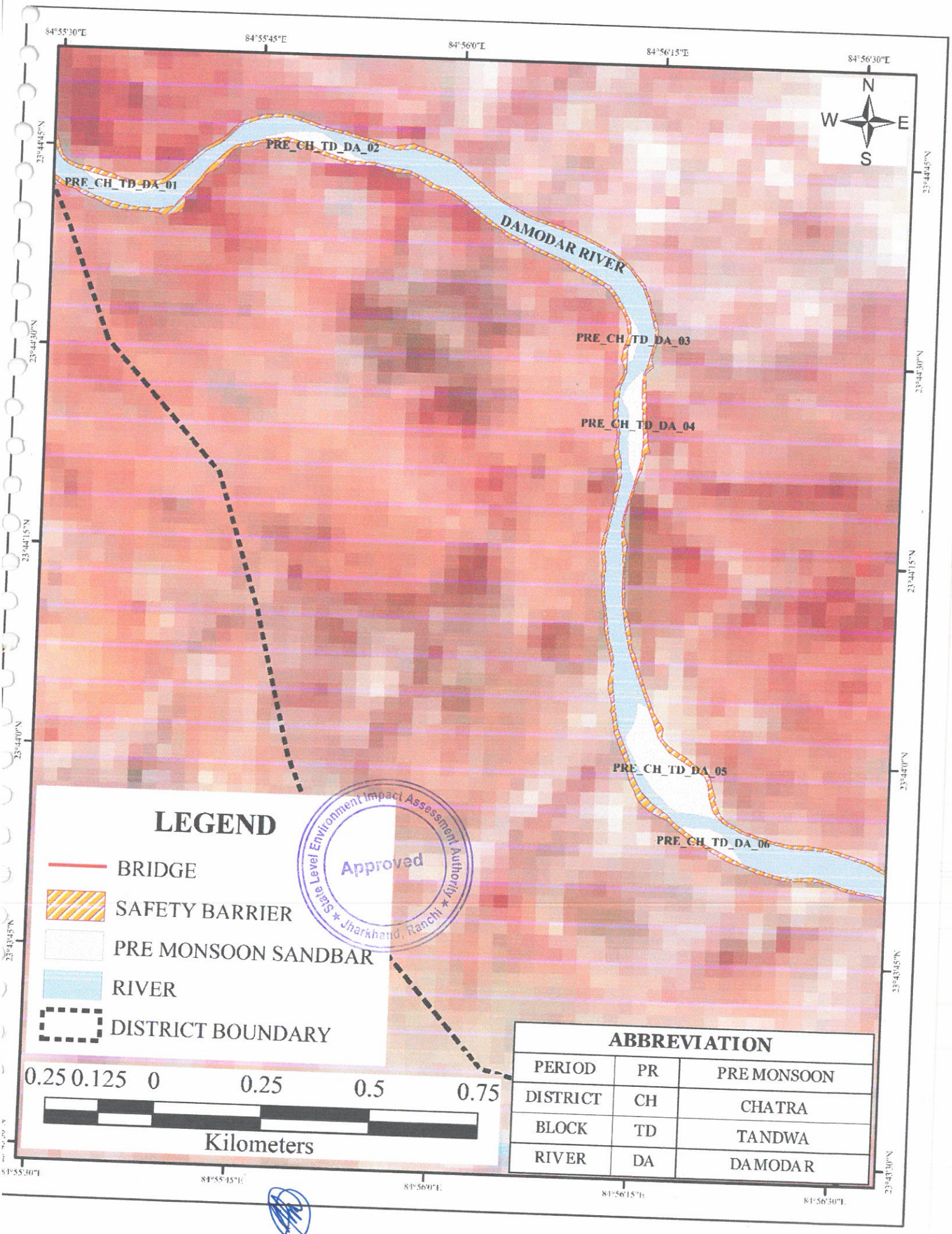
23°46'45"N
N
W
E
S
PRE_CH_TD_BI_53
PRE_CH_TD_BI_52
BARKI RIVER
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
0.2 0.1 0 0.2 0.4 0.6
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK TD TANDWA
RIVER BI BARKI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23°44'0"N
23°43'45"N
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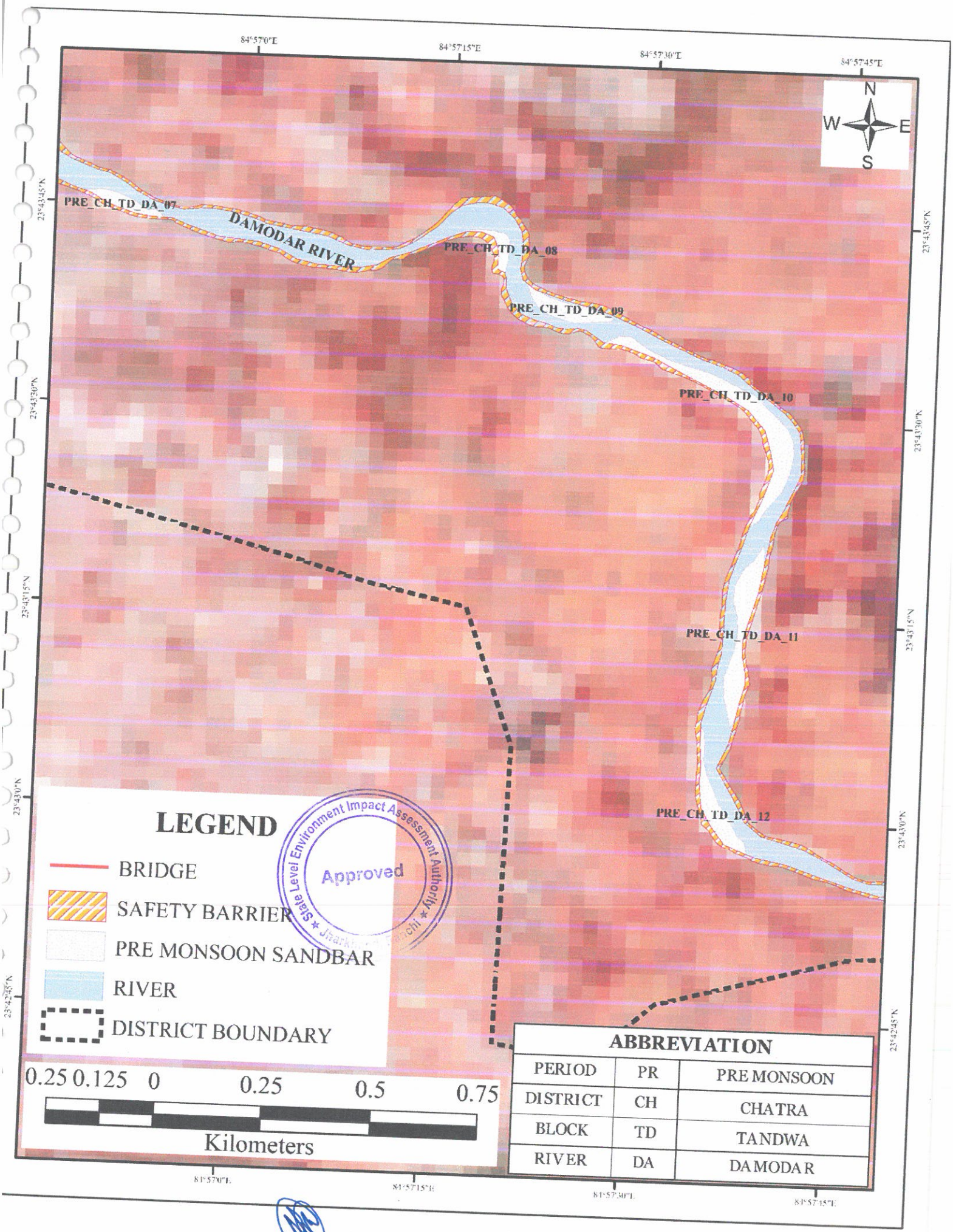
W
E
S
PRE_CH_TD_DA_01
PRE_CH_TD_DA_02
DAMODAR RIVER
PRE_CH_TD_DA_03
PRE_CH_TD_DA_04
PRE_CH_TD_DA_05
PRE_CH_TD_DA_06
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
0.25 0.125 0 0.25 0.5 0.75
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK TD TANDWA
RIVER DA DAMODAR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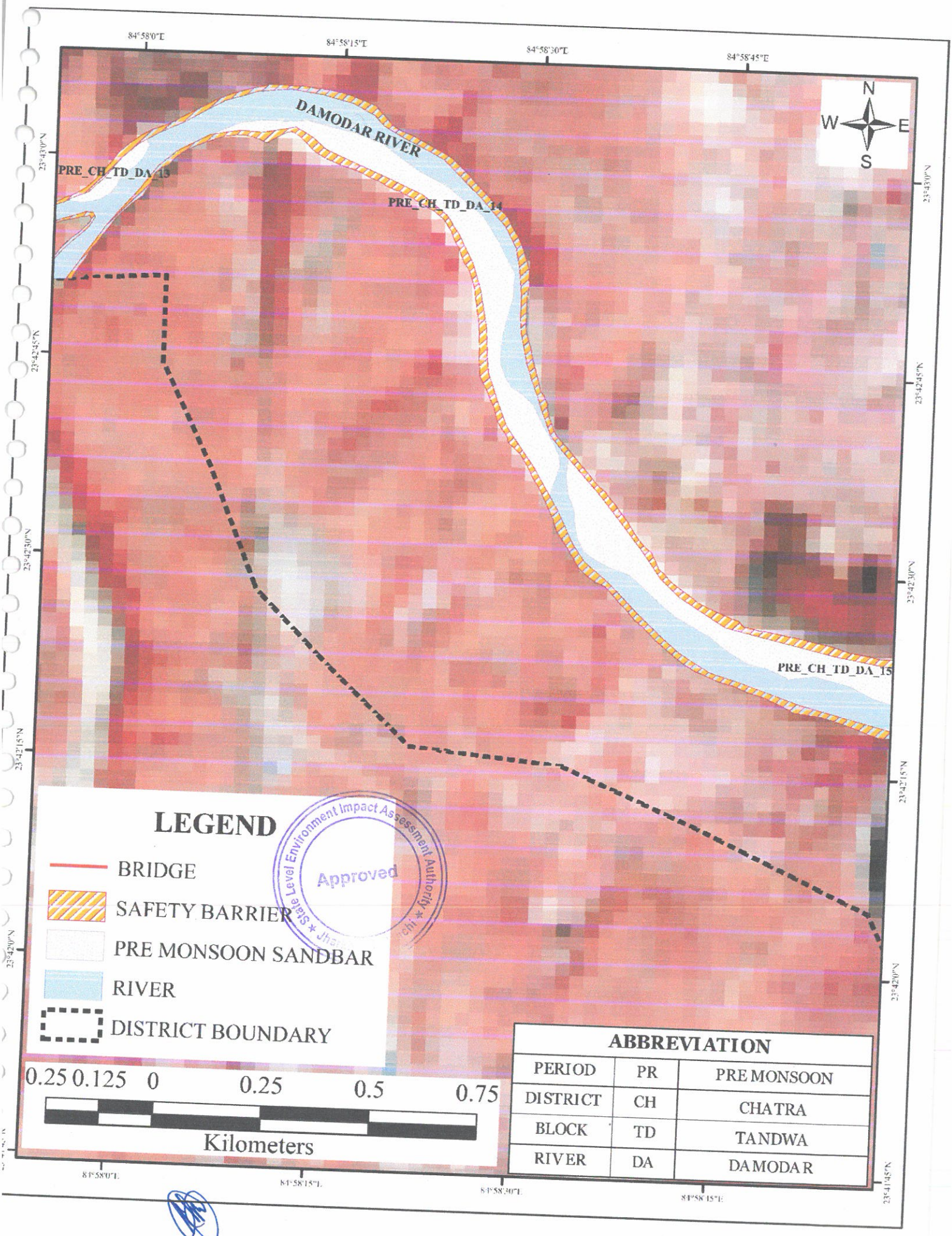
23°42'45"N
N
W
E
S
PRE_CH_TD_DA_07
DAMODAR RIVER
PRE_CH_TD_DA_08
PRE_CH_TD_DA_09
PRE_CH_TD_DA_10
PRE_CH_TD_DA_11
PRE_CH_TD_DA_12
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved
0.25 0.125 0 0.25 0.5 0.75
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK TD TANDWA
RIVER DA DAMODAR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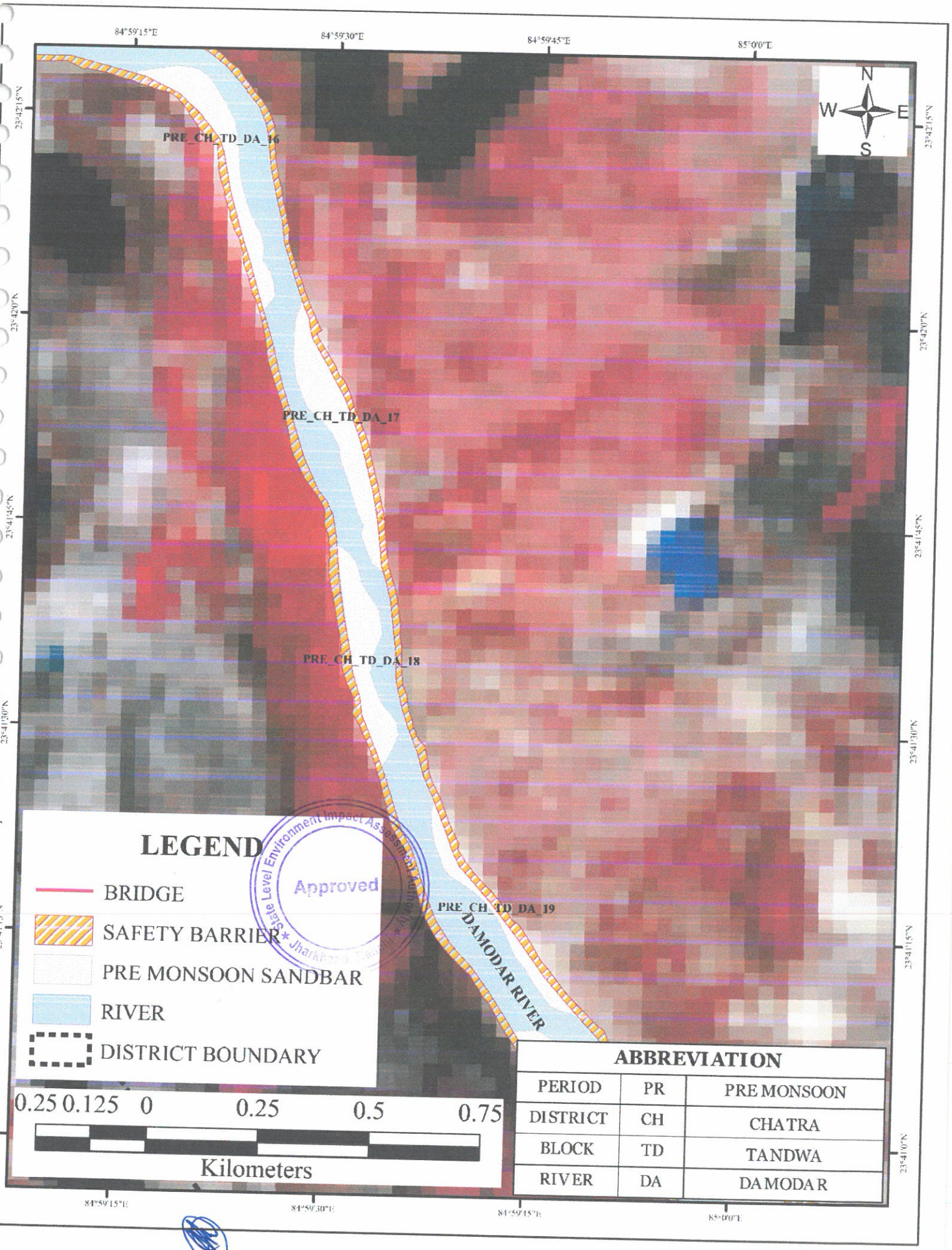
23°42'0"N
N
W
E
S
DAMODAR RIVER
PRE_CH_TD_DA_13
PRE_CH_TD_DA_14
PRE_CH_TD_DA_15
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
0.25 0.125 0 0.25 0.5 0.75
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK TD TANDWA
RIVER DA DAMODAR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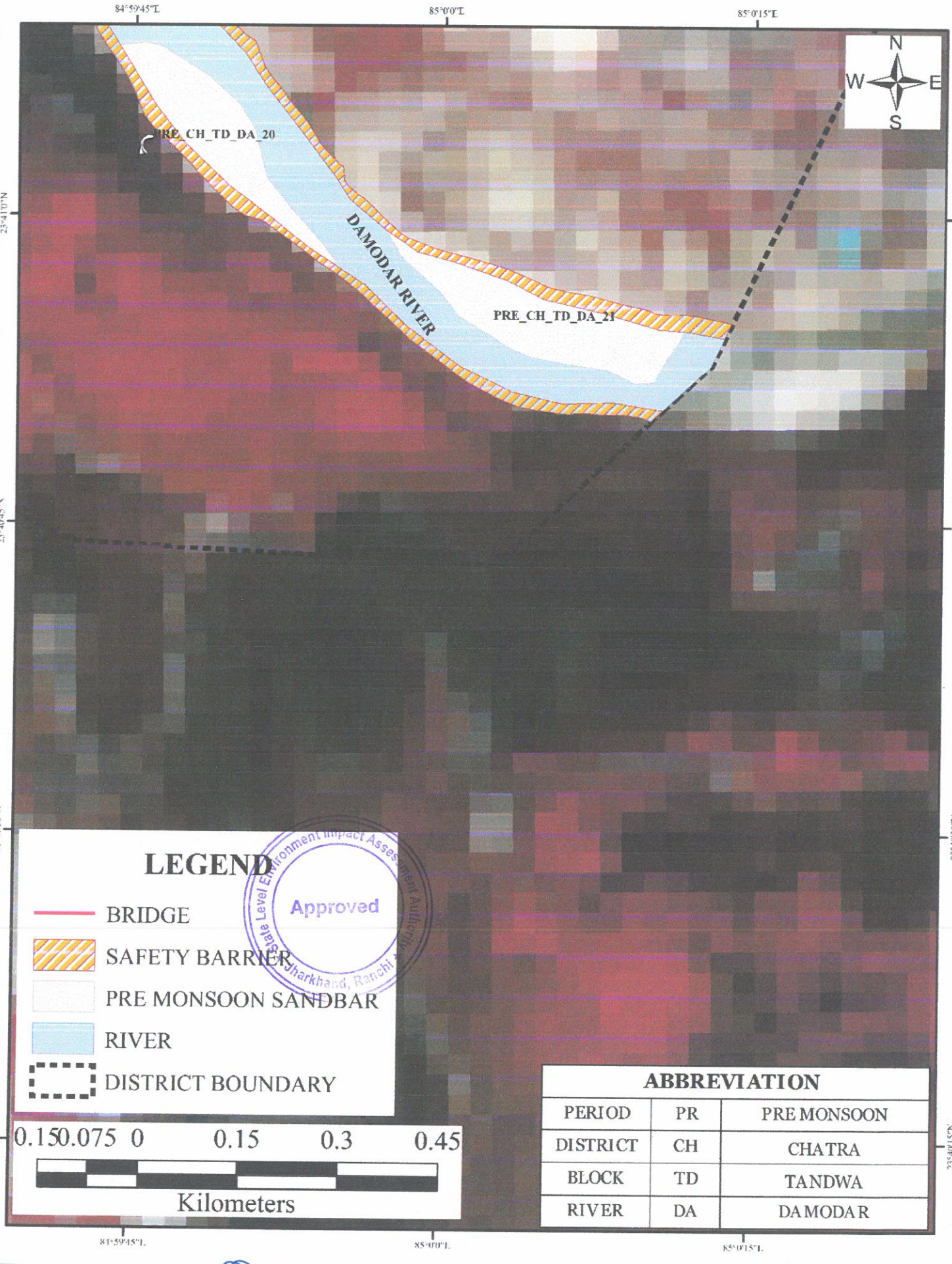
23°41'0"N
N
W
E
S
PRE_CH_TD_DA_16
PRE_CH_TD_DA_17
PRE_CH_TD_DA_18
PRE_CH_TD_DA_19
DAMODAR RIVER
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved
Jharkhand
0.25 0.125 0 0.25 0.5 0.75
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK TD TANDWA
RIVER DA DAMODAR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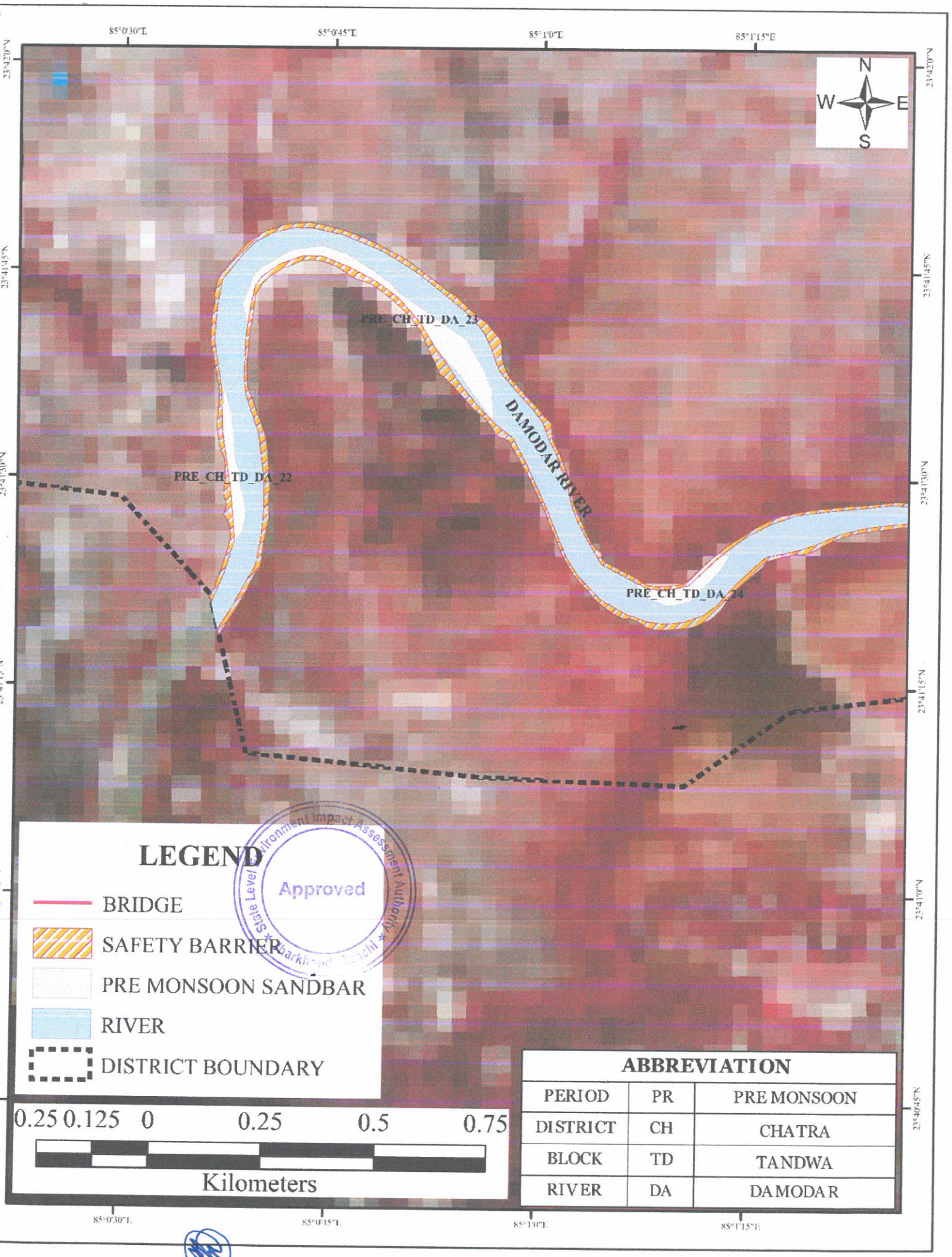
N
W
E
S
PRE_CH_TD_DA_20
DAMODAR RIVER
PRE_CH_TD_DA_21
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
0.150.075 0 0.15 0.3 0.45
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK TD TANDWA
RIVER DA DAMODAR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23°41'0"N
23°40'45"N
N
W
E
S
PRE_CH_TD_DA_23
DAMODAR RIVER
PRE_CH_TD_DA_22
PRE_CH_TD_DA_24
LEGEND
BRIDGE
SAFETY BARRIER
PRE MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
0.25 0.125 0 0.25 0.5 0.75
Kilometers
ABBREVIATION
PERIOD PR PRE MONSOON
DISTRICT CH CHATRA
BLOCK TD TANDWA
RIVER DA DAMODAR

Plate B

(Plate showing potential Zone in post-monsoon)

State Level Environment Impact Assessment Authority
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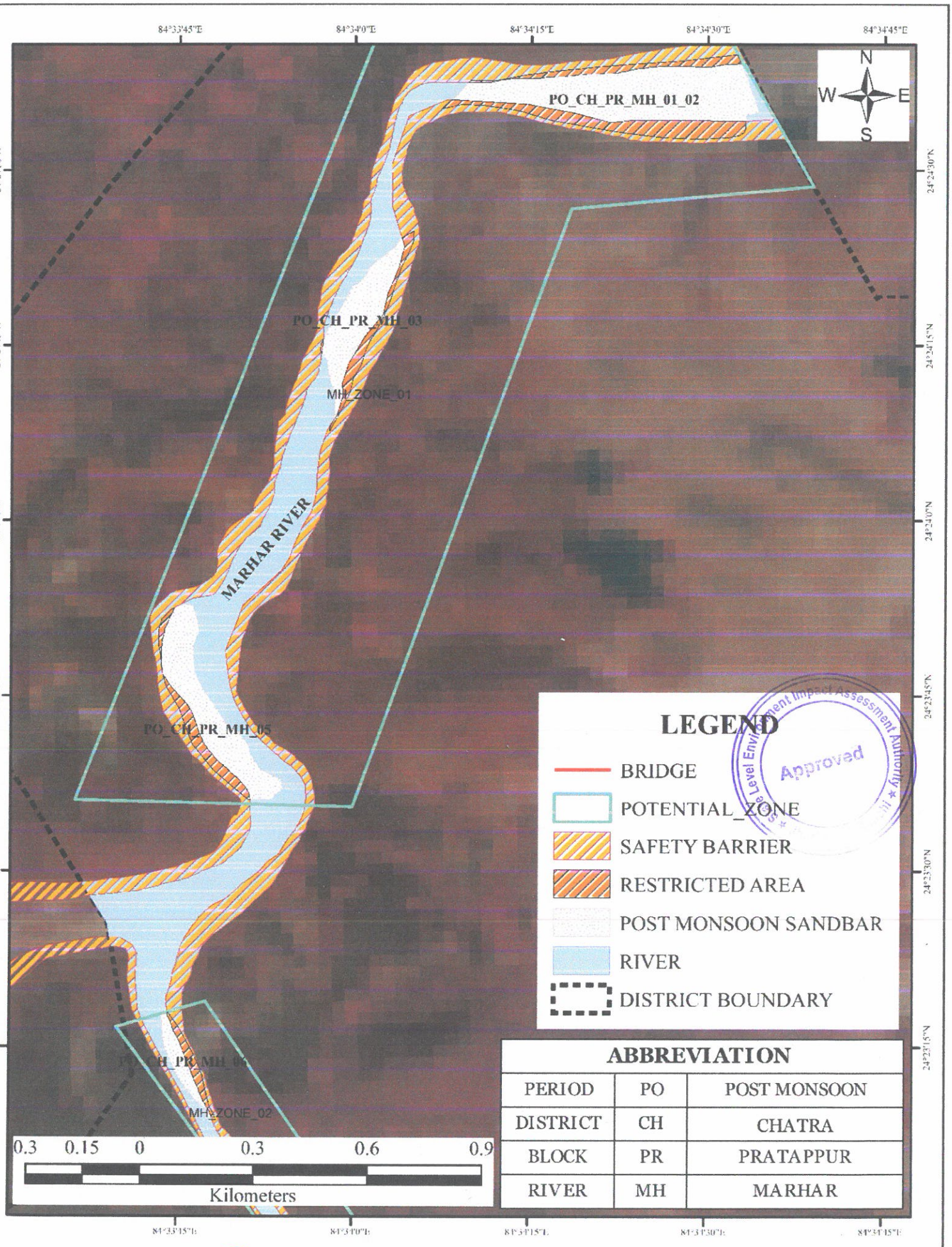
Jharkhand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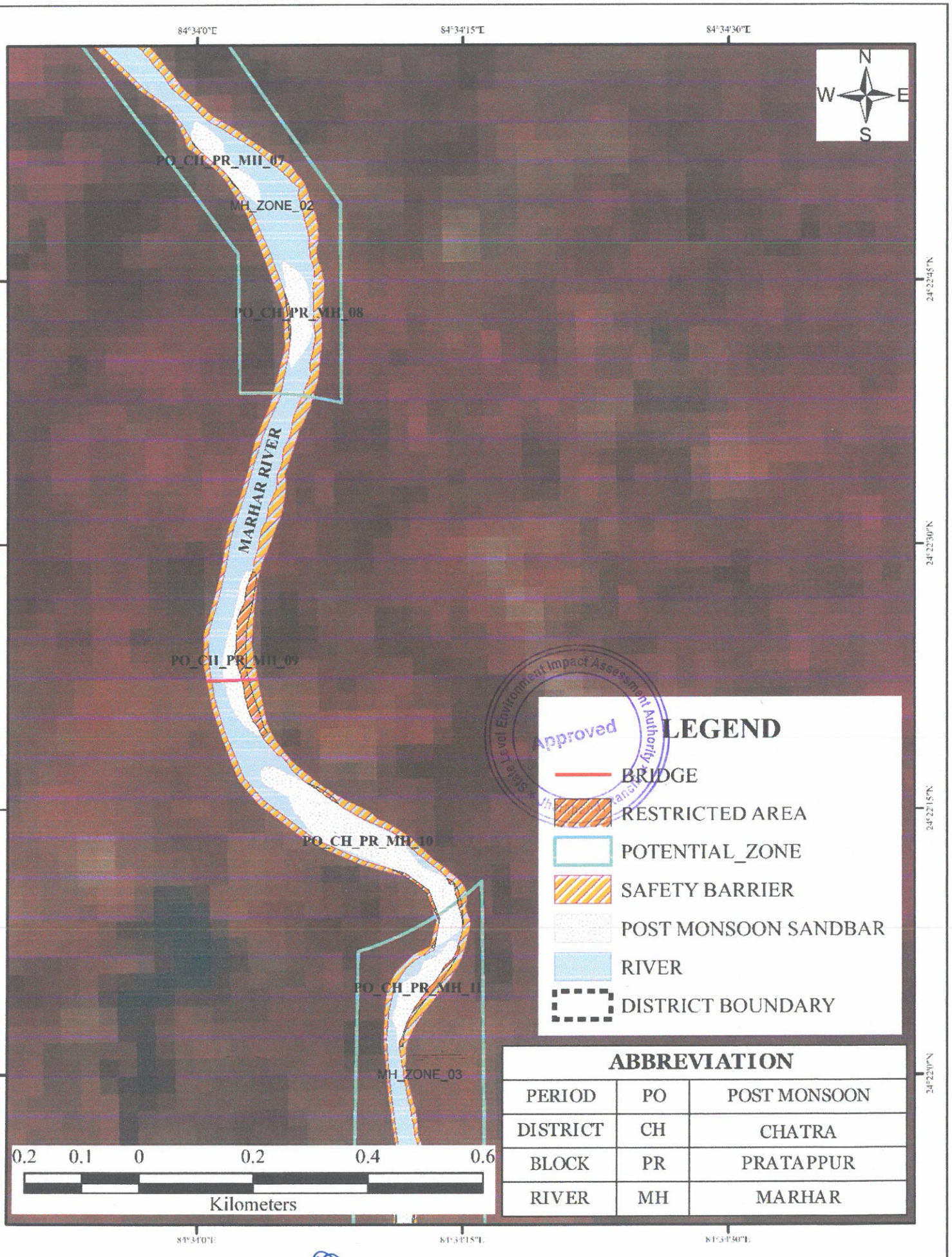
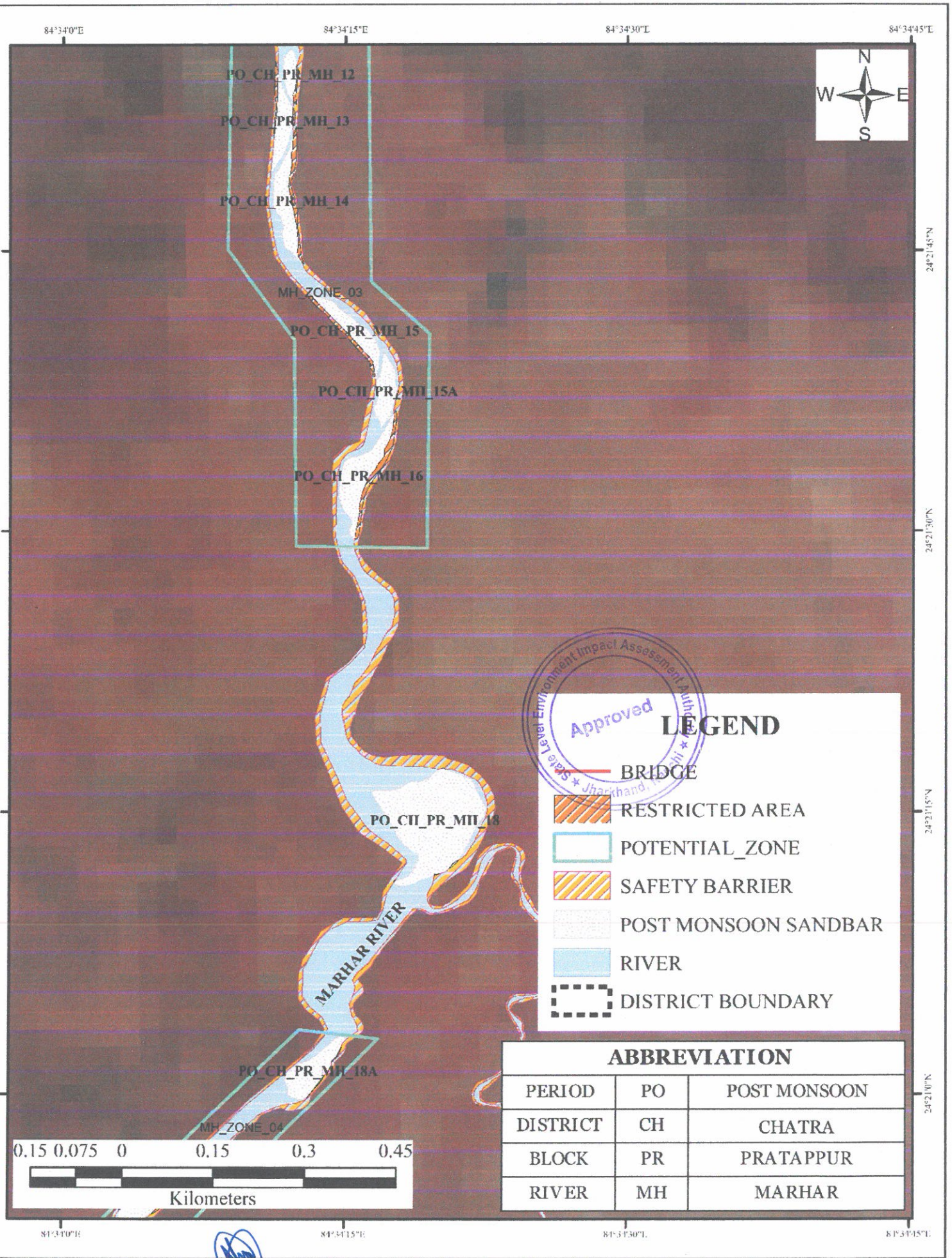
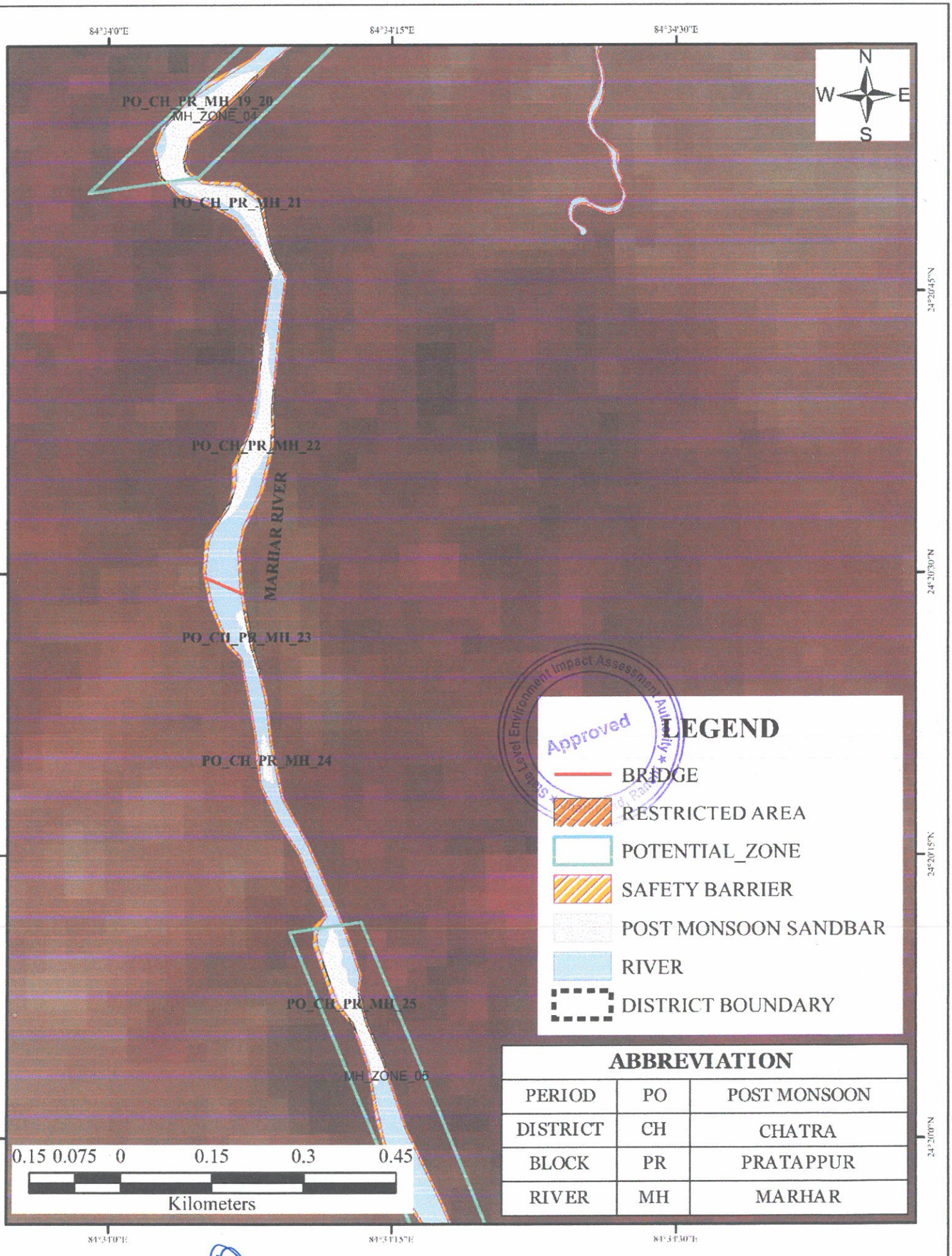
24°23'30"N
24°23'15"N
N
W
E
S
PO_CH_PR_MH_01_02
PO_CH_PR_MH_03
MH_ZONE_01
MARHAR RIVER
PO_CH_PR_MH_05
MH_ZONE_02
0.3 0.15 0 0.3 0.6 0.9
Kilometers
LEGEND
BRIDGE
POTENTIAL_ZONE
SAFETY BARRIER
RESTRICTED AREA
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK PR PRATAPPUR
RIVER MH MARHAR



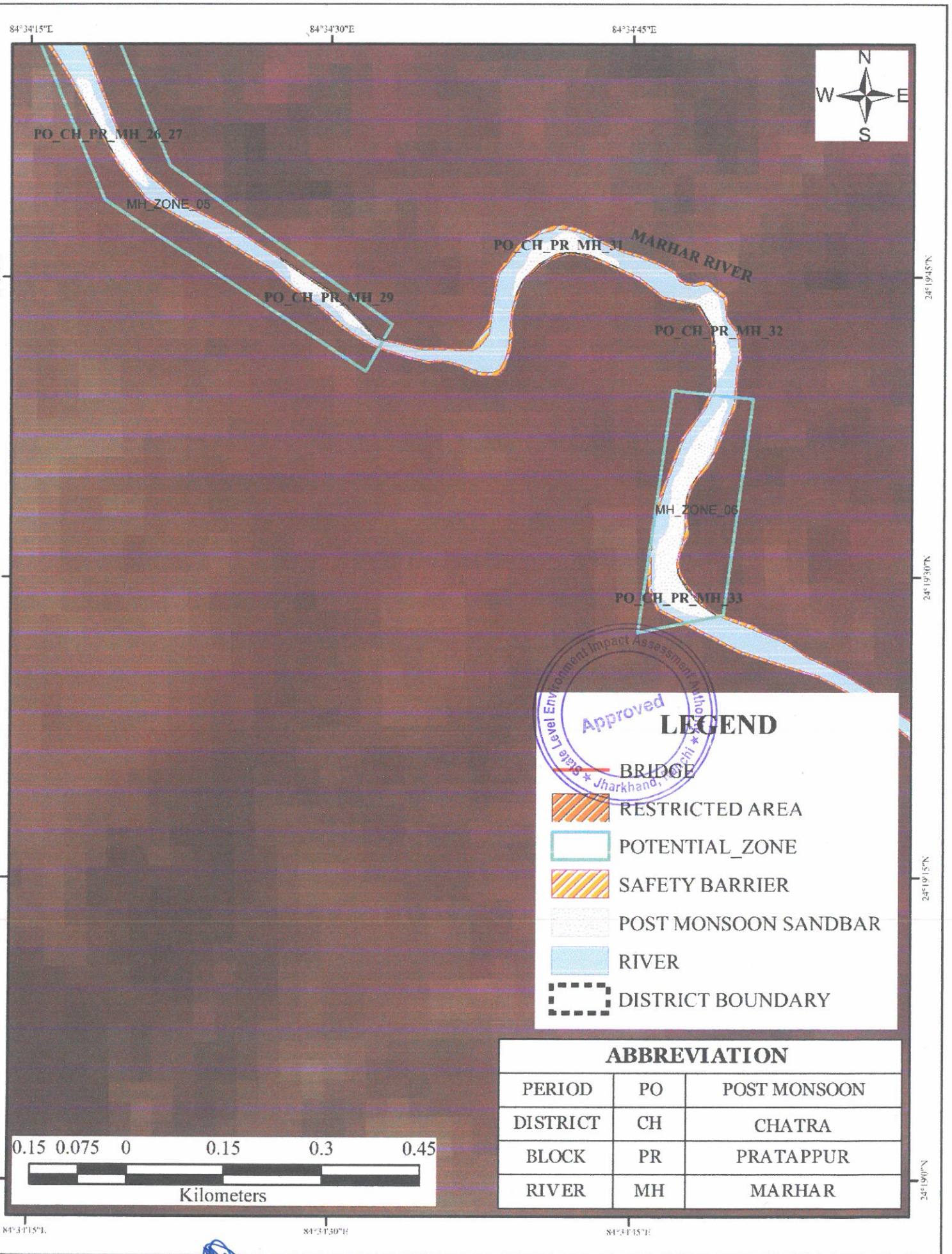
ABBREVIATION		
PERIOD	PO	POST MONSOON
DISTRICT	CH	CHATRA
BLOCK	PR	PRATAPPUR
RIVER	MH	MARHAR



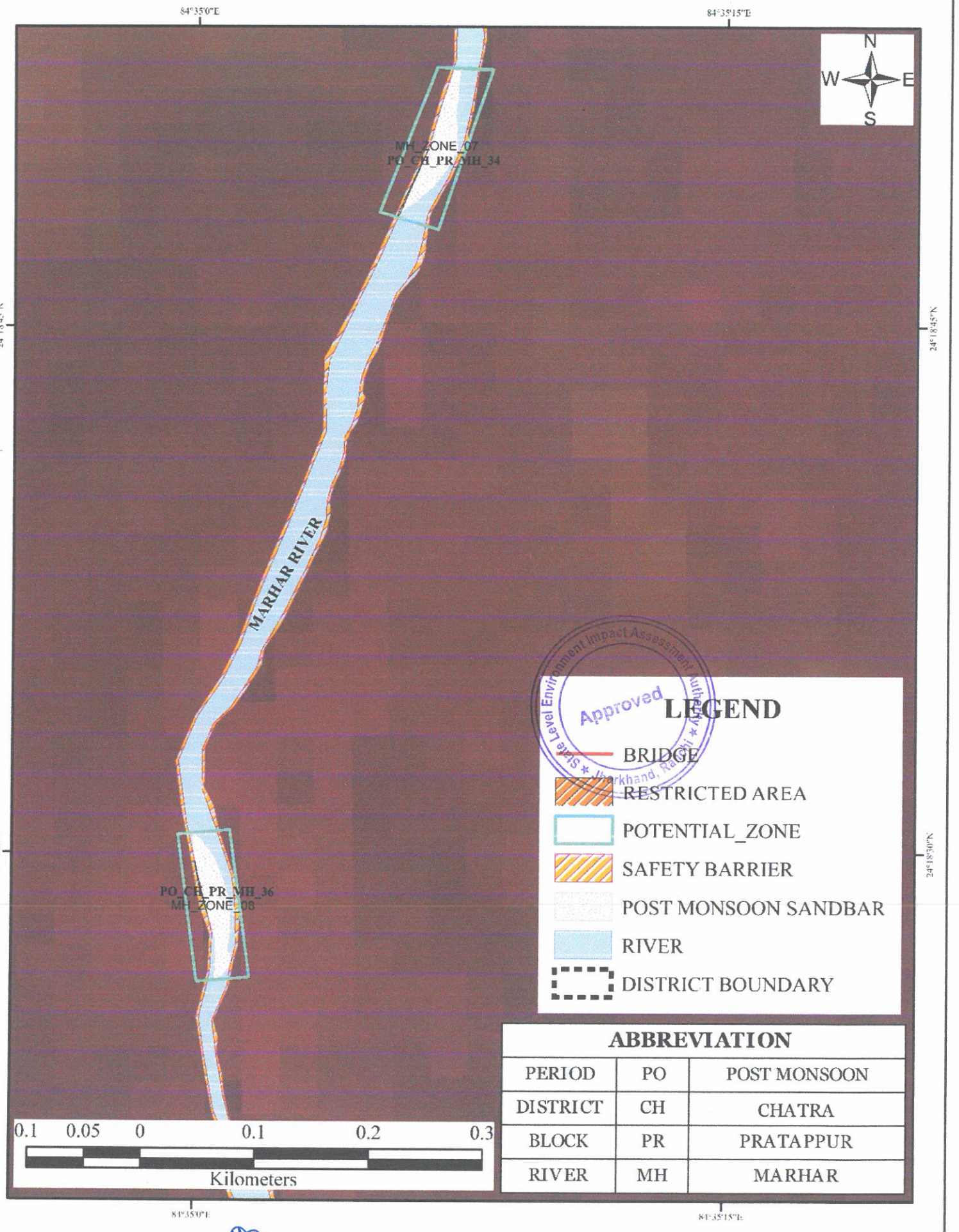
ABBREVIATION		
PERIOD	PO	POST MONSOON
DISTRICT	CH	CHATRA
BLOCK	PR	PRATAPPUR
RIVER	MH	MARHAR



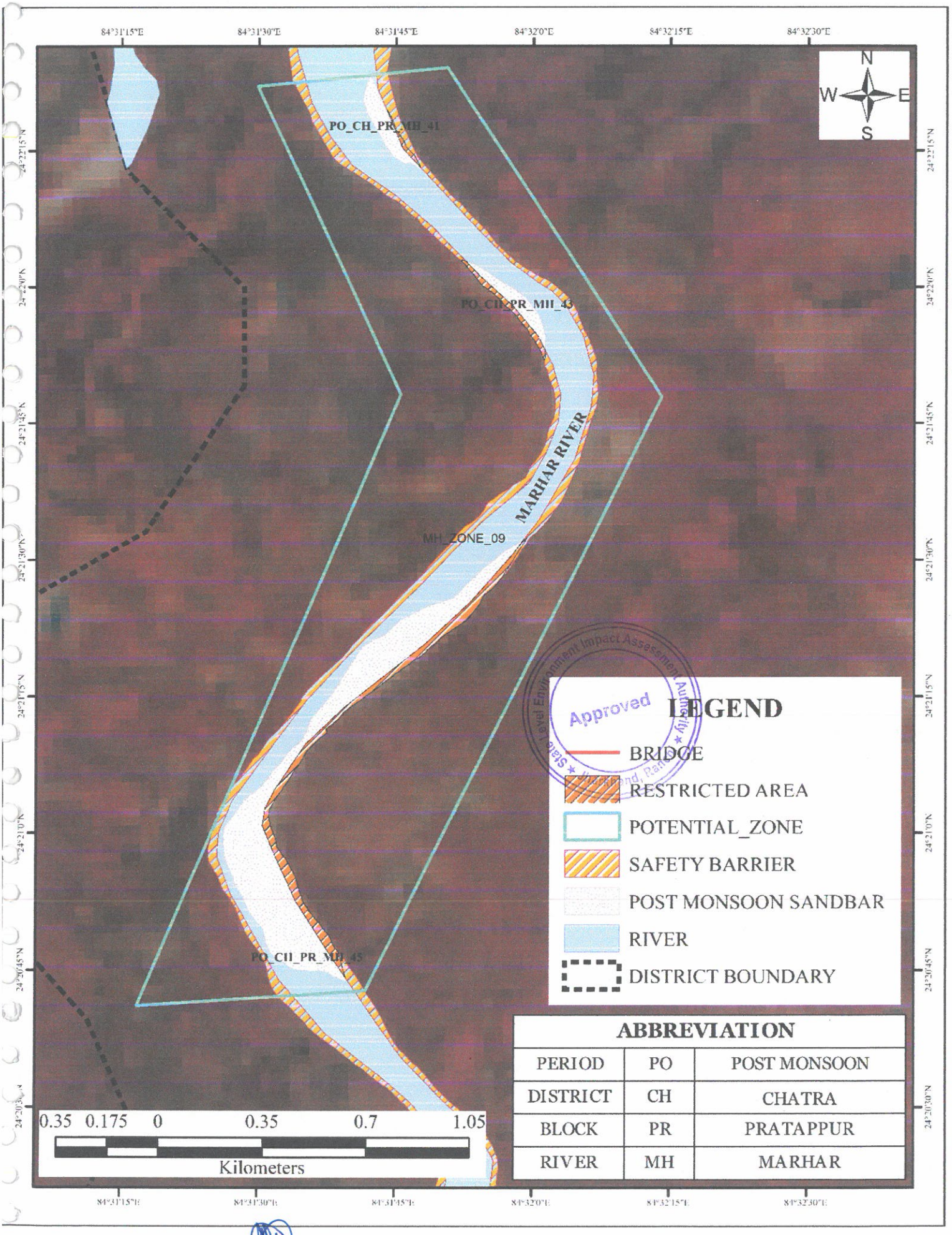
ABBREVIATION		
PERIOD	PO	POST MONSOON
DISTRICT	CH	CHATRA
BLOCK	PR	PRATAPPUR
RIVER	MH	MARHAR



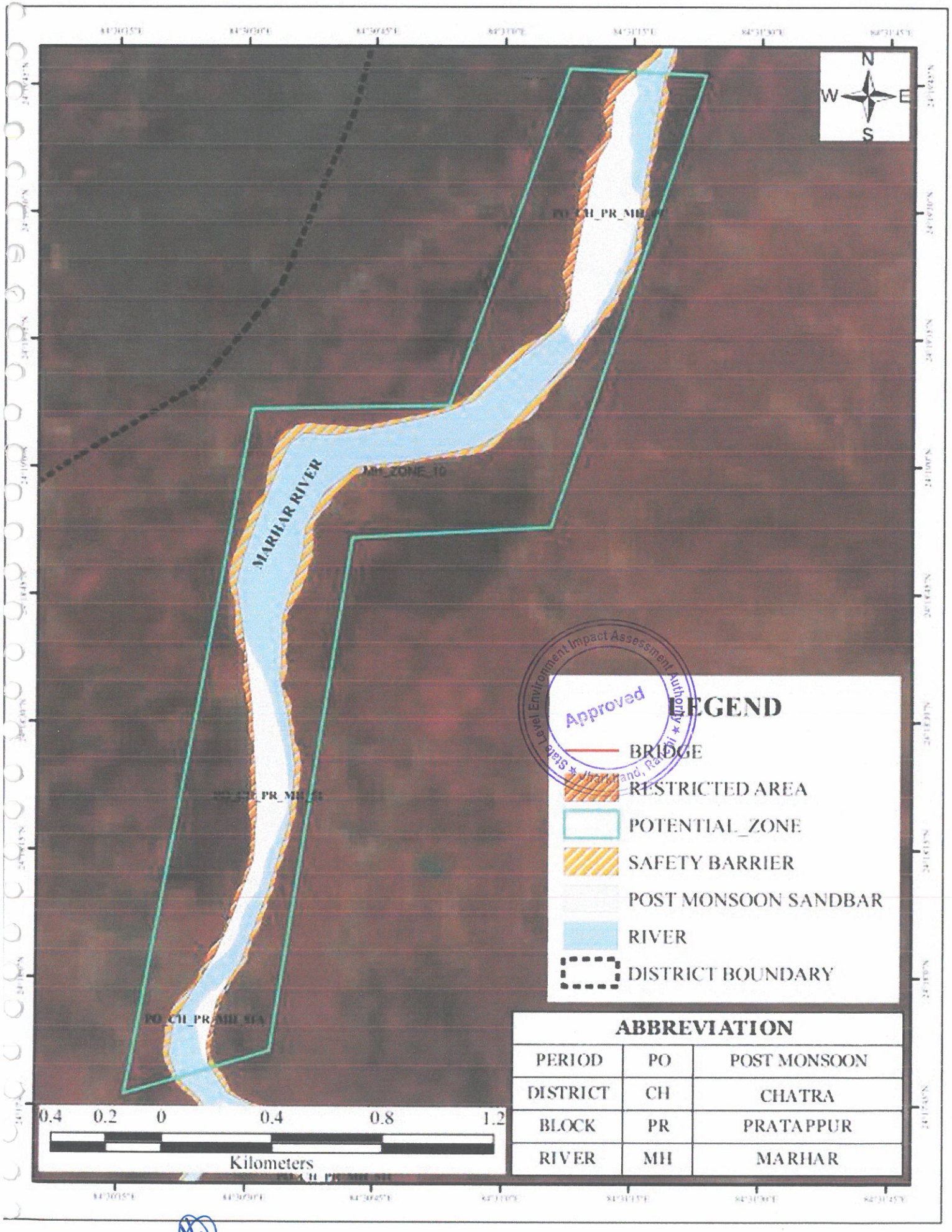
ABBREVIATION		
PERIOD	PO	POST MONSOON
DISTRICT	CH	CHATRA
BLOCK	PR	PRATAPPUR
RIVER	MH	MARHAR



ABBREVIATION		
PERIOD	PO	POST MONSOON
DISTRICT	CH	CHATRA
BLOCK	PR	PRATAPPUR
RIVER	MH	MARHAR



ABBREVIATION		
PERIOD	PO	POST MONSOON
DISTRICT	CH	CHATRA
BLOCK	PR	PRATAPPUR
RIVER	MH	MARHAR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MARHAR RIVER
MH_ZONE_10
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
LEGEND
BRIDGE
RESTRICTED AREA
POTENTIAL_ZONE
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK PR PRATAPPUR
RIVER MH MARHAR
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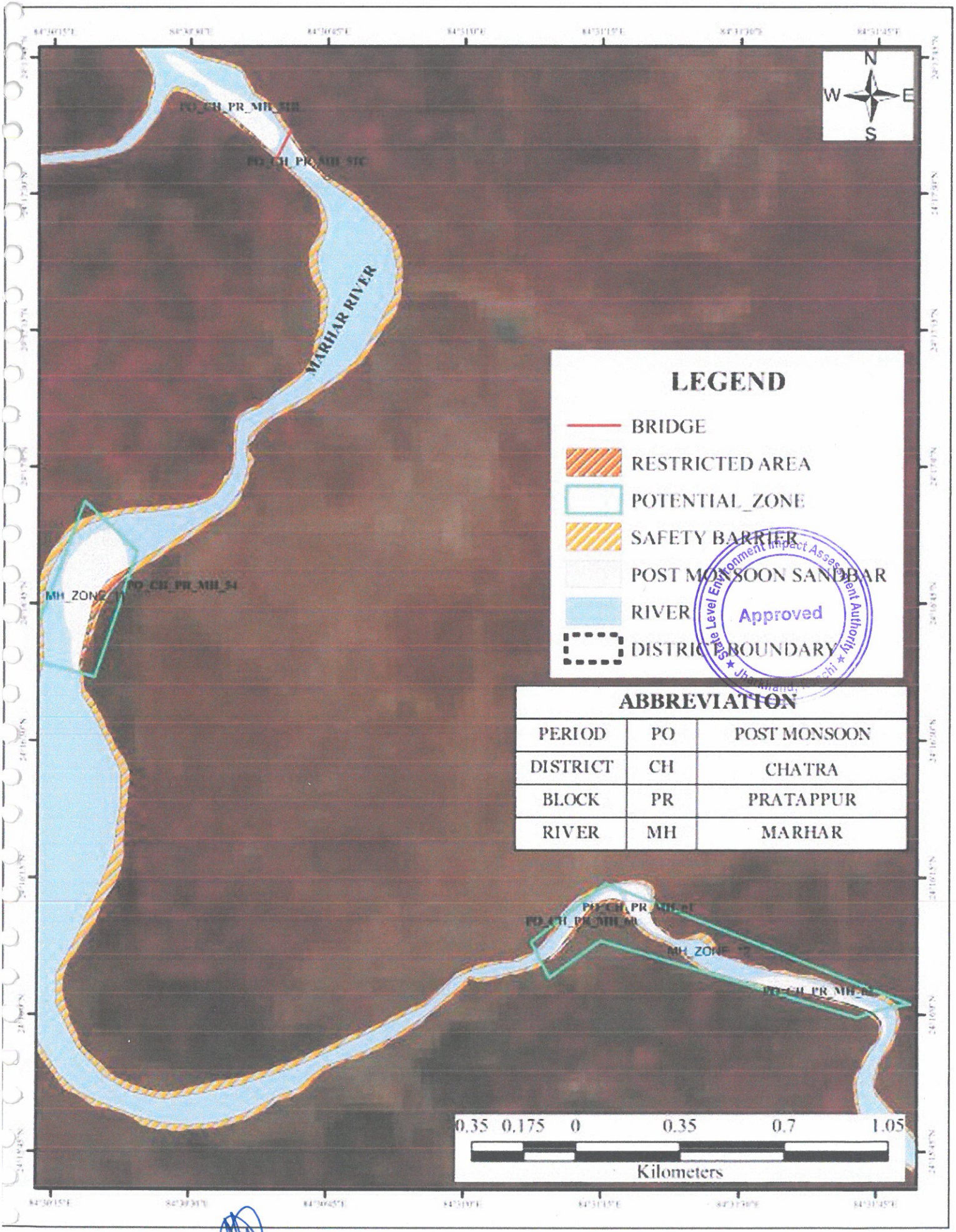
Kilometers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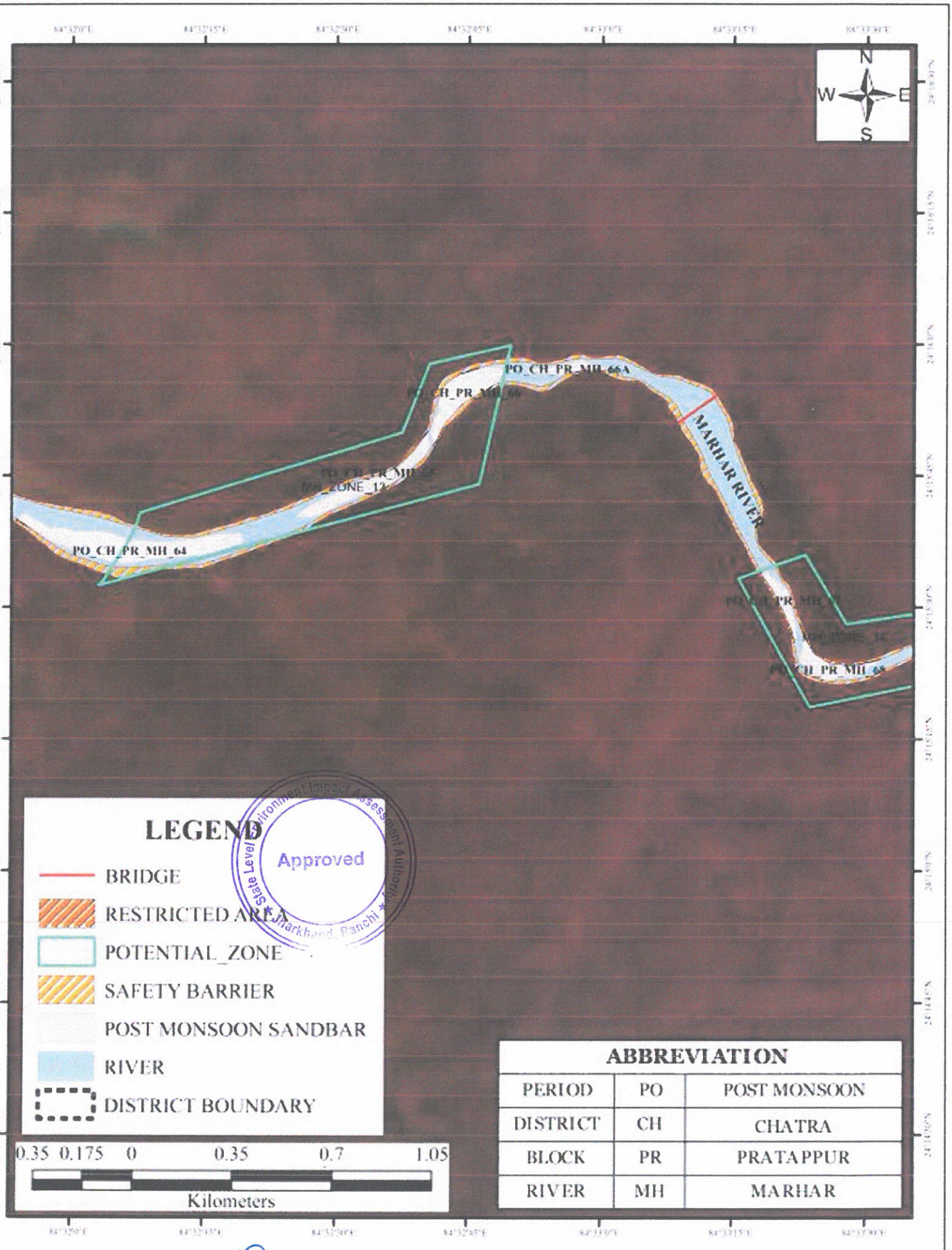
MARHAR RIVER
MH_ZONE_1
MH_ZONE_2
LEGEND
BRIDGE
RESTRICTED AREA
POTENTIAL_ZONE
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
ABBREVIATION
PERIOD | PO | POST MONSOON
DISTRICT | CH | CHATRA
BLOCK | PR | PRATAPPUR
RIVER | MH | MARHAR
0.35 0.175 0 0.35 0.7 1.05
Kilometers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MARHAR RIVER
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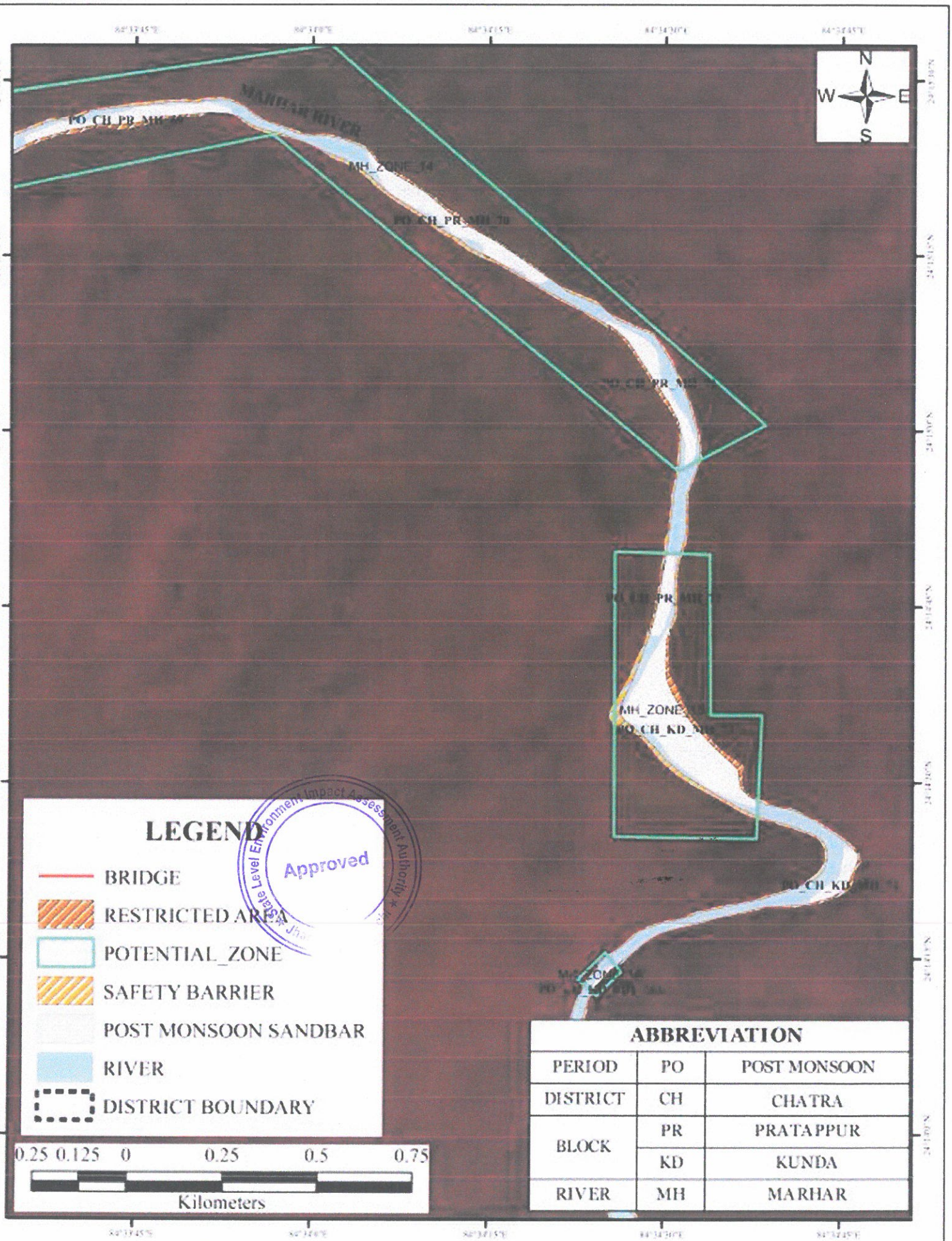
LEGEND
BRIDGE
RESTRICTED AREA
POTENTIAL_ZONE
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
0.35 0.175 0 0.35 0.7 1.05
Kilometers
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK PR PRATAPPUR
RIVER MH MARHAR

Approved



ABBREVIATION		
PERIOD	PO	POST MONSOON
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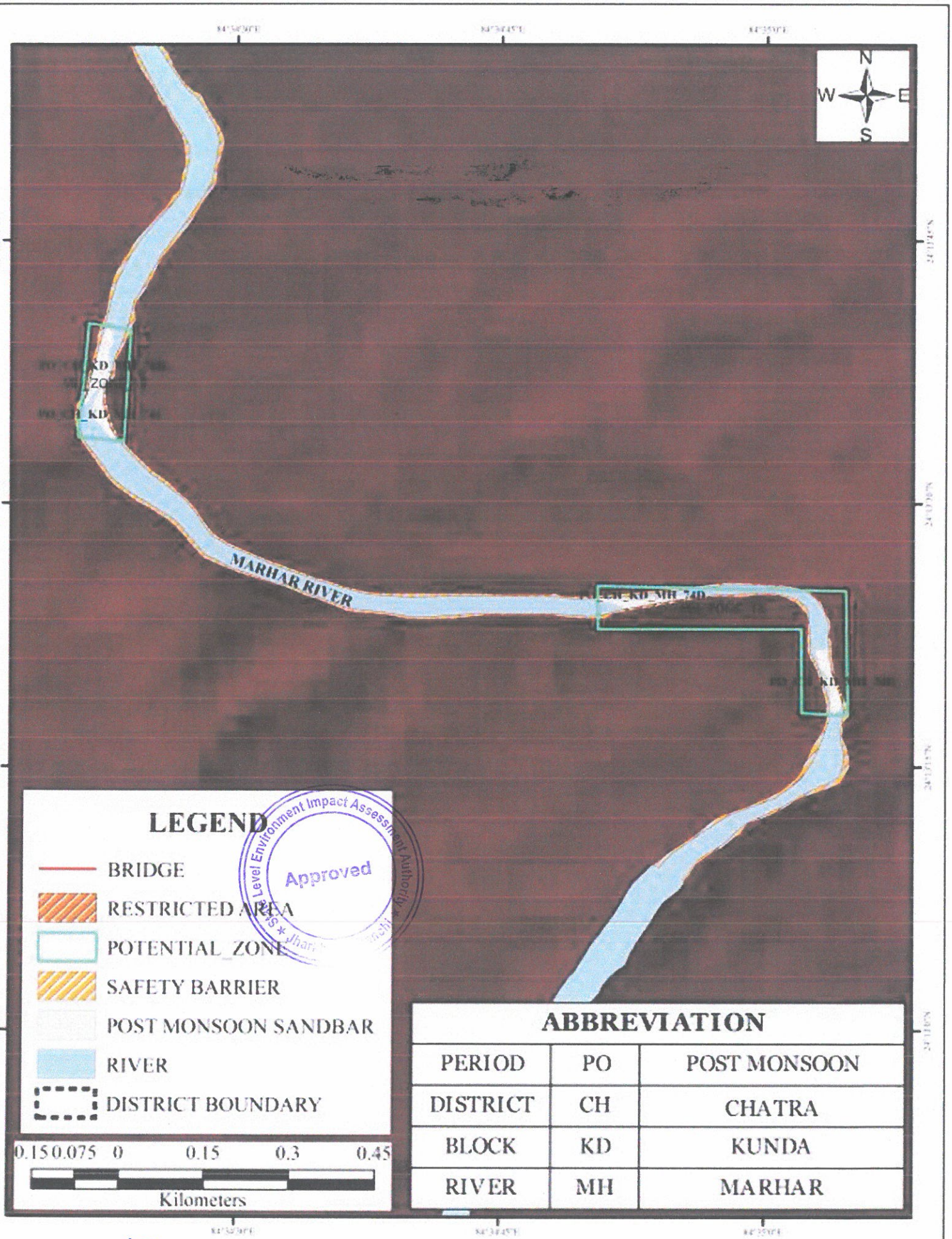
BLOCK	PR	PRATAPPUR
	KD	KUNDA
RIVER	MH	MARHAR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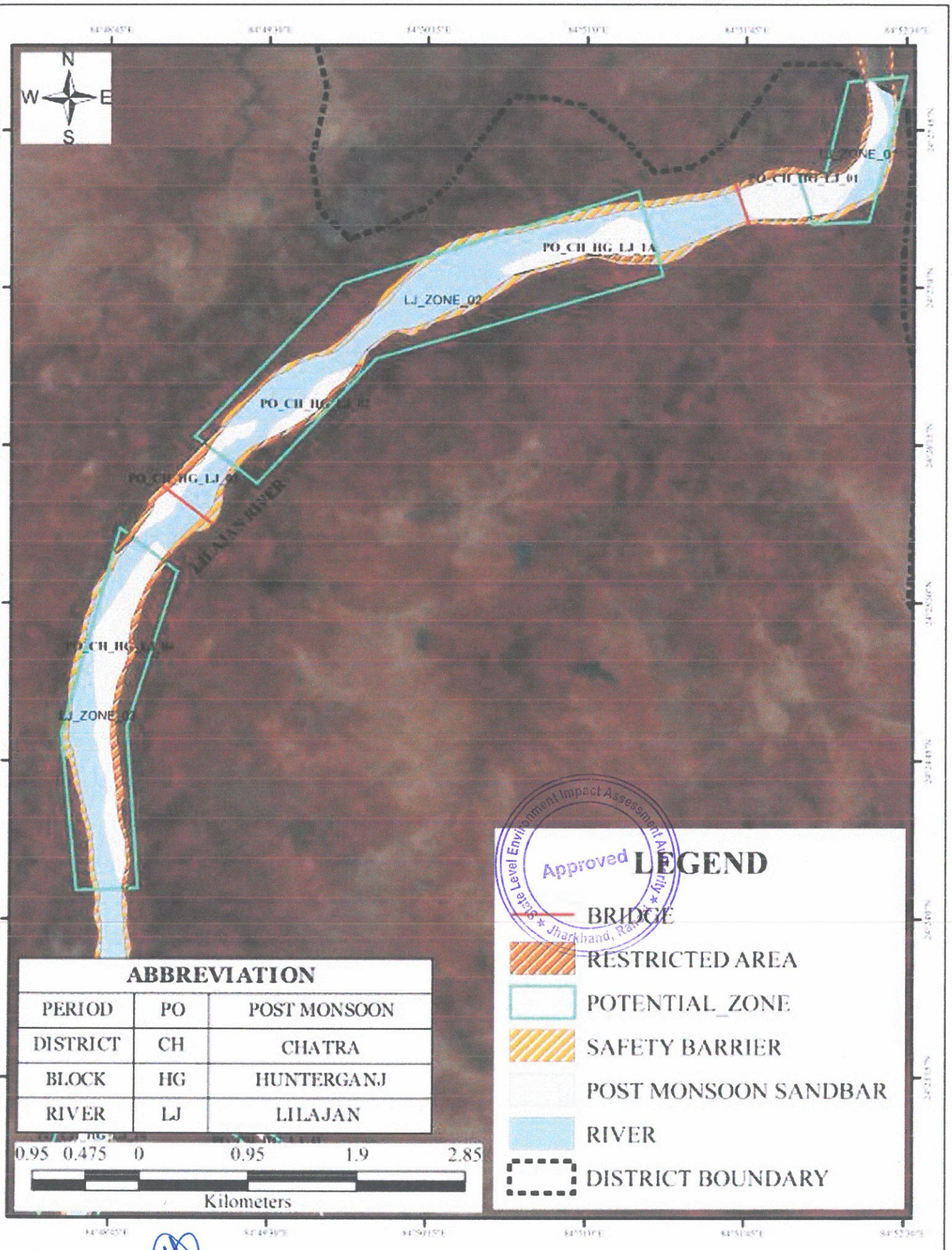
S
MARHAR RIVER
LEGEND
BRIDGE
RESTRICTED AREA
POTENTIAL_ZONE
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
0.15 0.075 0 0.15 0.3 0.45
Kilometers
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK KD KUNDA
RIVER MH MARHAR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LJ_ZONE_02
LILAJAN RIVER
LJ_ZONE_01
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
LEGEND
BRIDGE
RESTRICTED AREA
POTENTIAL_ZONE
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
ABBREVIATION
PERIOD | PO | POST MONSOON
DISTRICT | CH | CHATRA
BLOCK | HG | HUNTERGANJ
RIVER | LJ | LILAJAN
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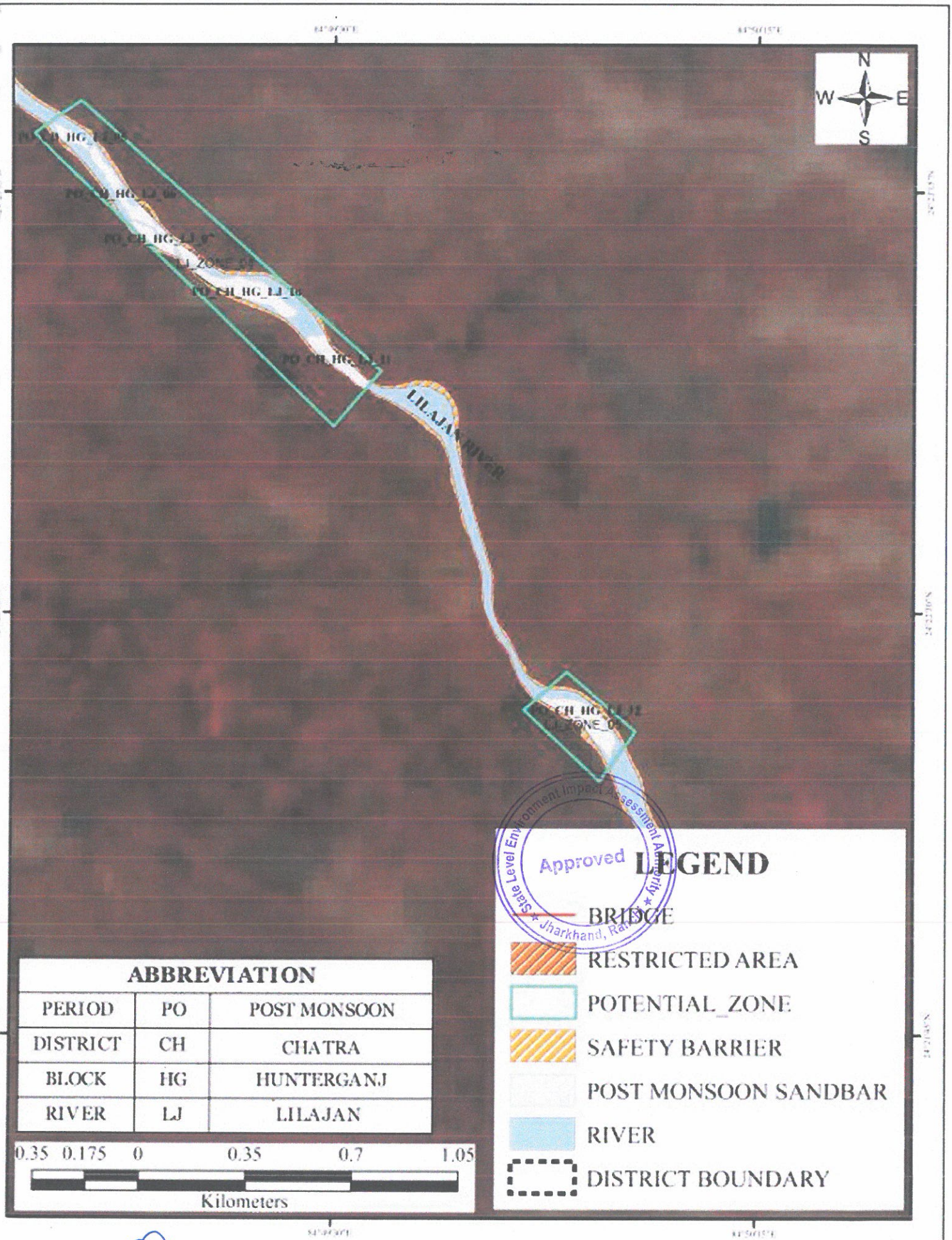
Kilometers


N
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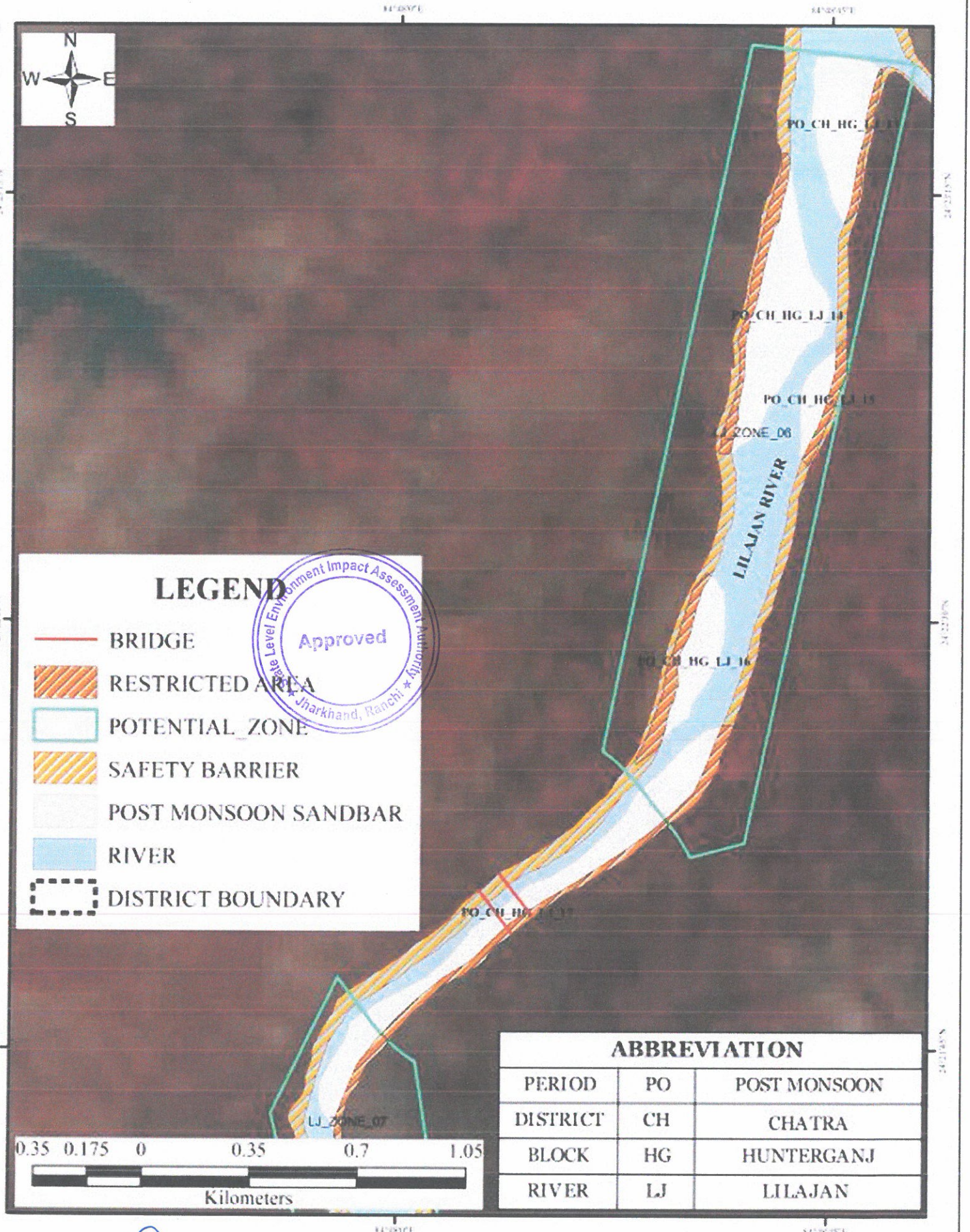
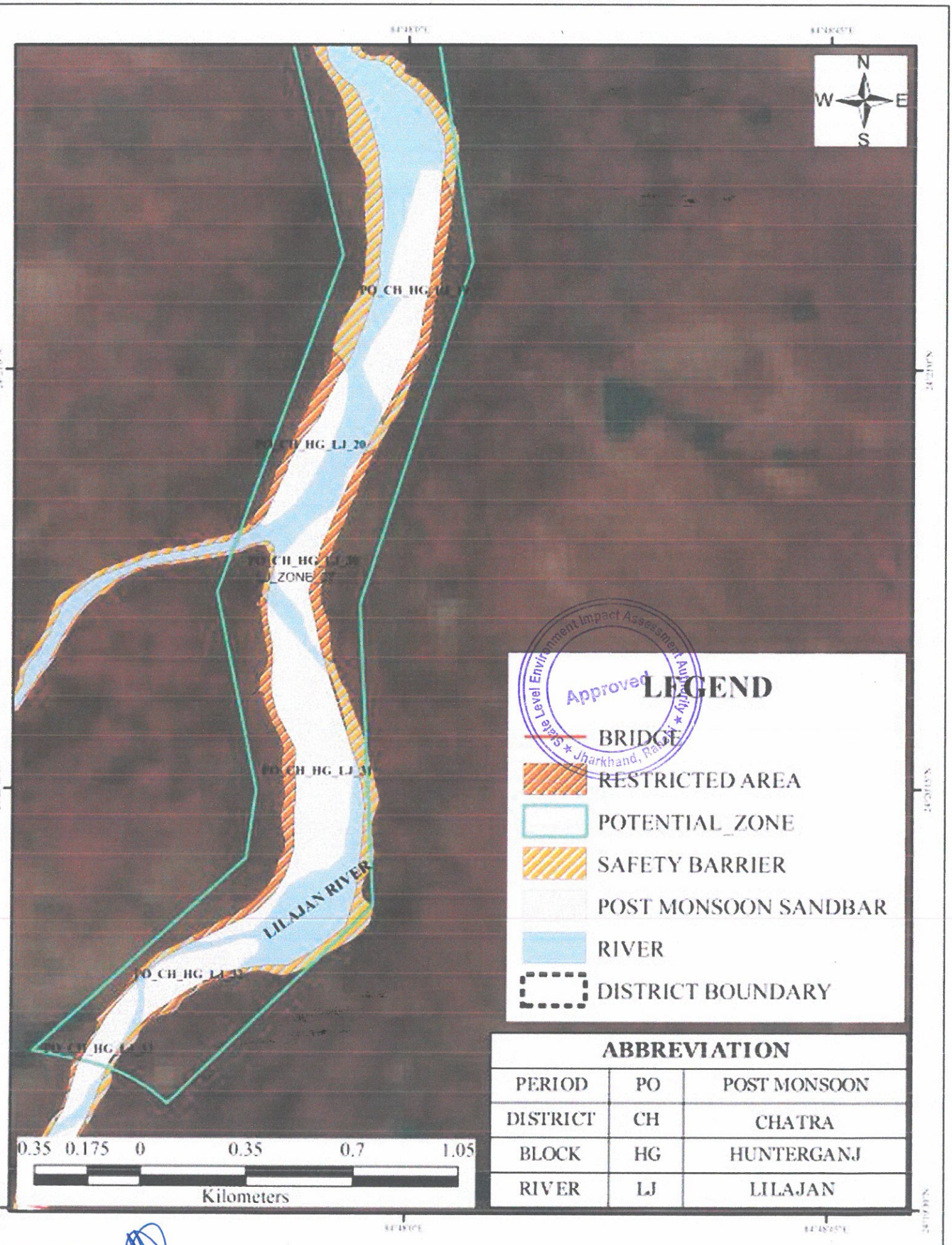
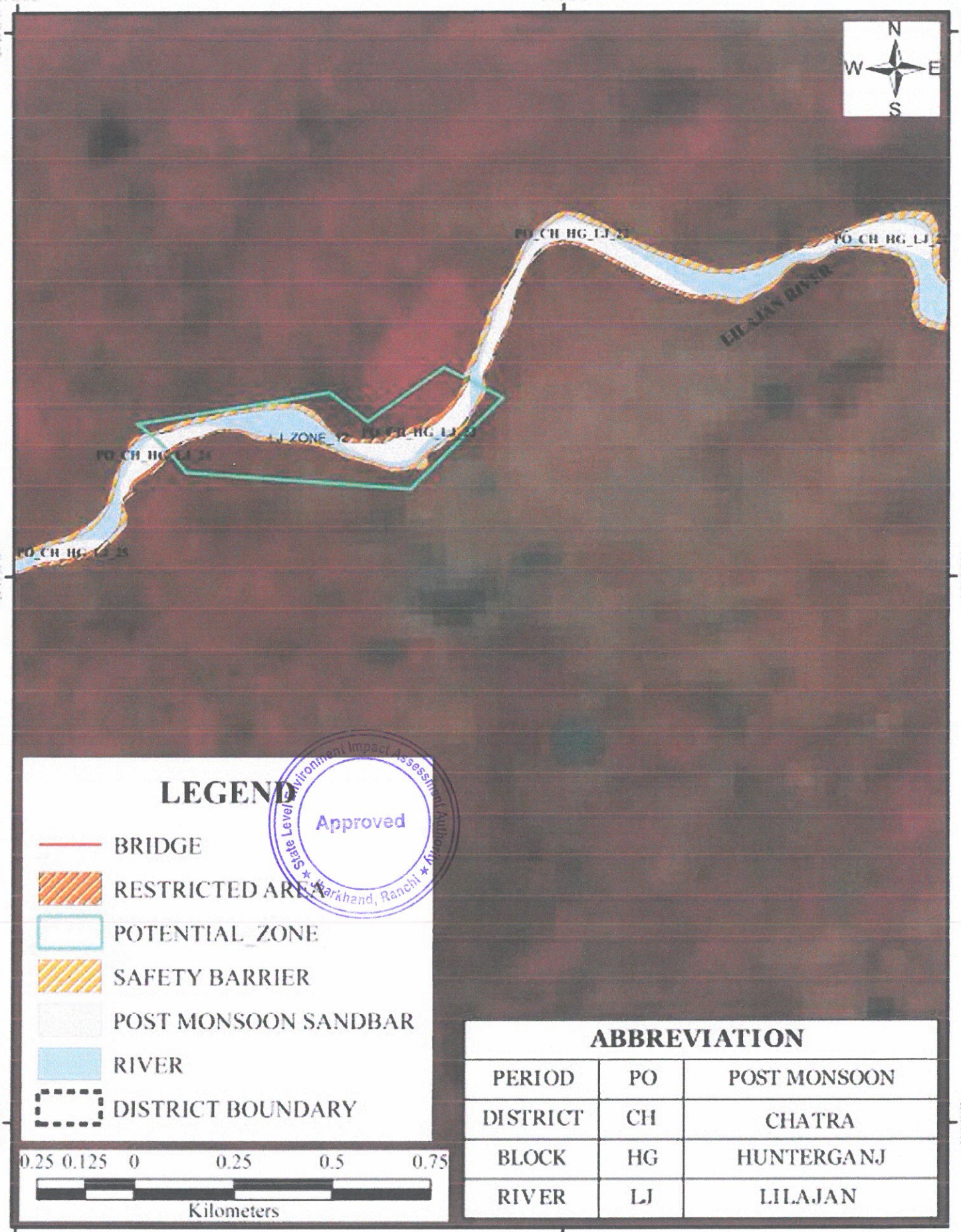
LILAJAN RIVER
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
LEGEND
BRIDGE
RESTRICTED AREA
POTENTIAL_ZONE
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
ABBREVIATION
PERIOD | PO | POST MONSOON
DISTRICT | CH | CHATRA
BLOCK | HG | HUNTERGANJ
RIVER | LJ | LILAJAN
0.35 0.175 0 0.35 0.7 1.05
Kilometers

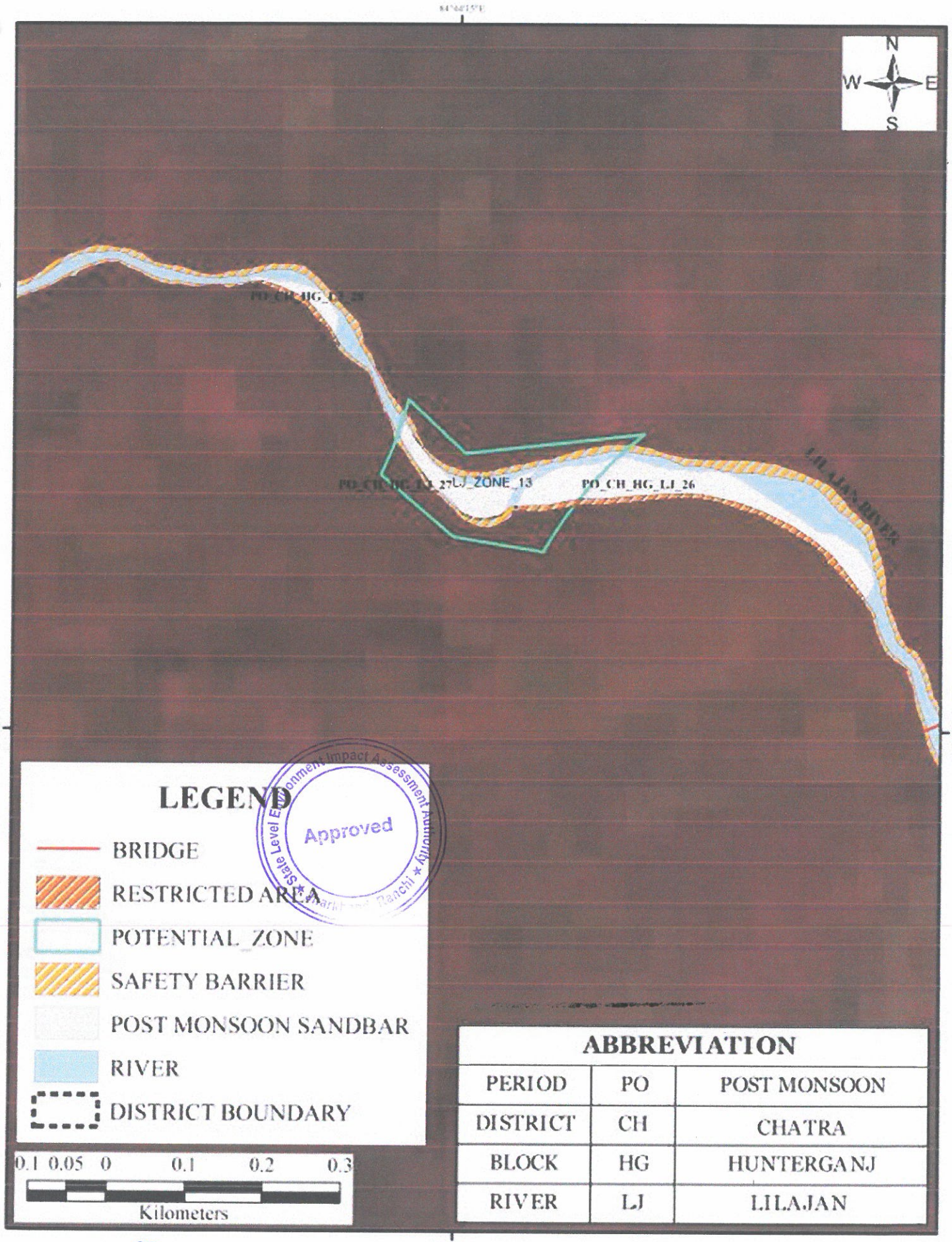

N
W
E
S
PO_CH_HG_LJ_14
PO_CH_HG_LJ_15
ZONE_06
LILAJAN RIVER
PO_CH_HG_LJ_16
PO_CH_HG_LJ_17
LJ_ZONE_07
LEGEND
BRIDGE
RESTRICTED AREA
POTENTIAL_ZONE
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
0.35 0.175 0 0.35 0.7 1.05
Kilometers
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK HG HUNTERGANJ
RIVER LJ LILAJAN



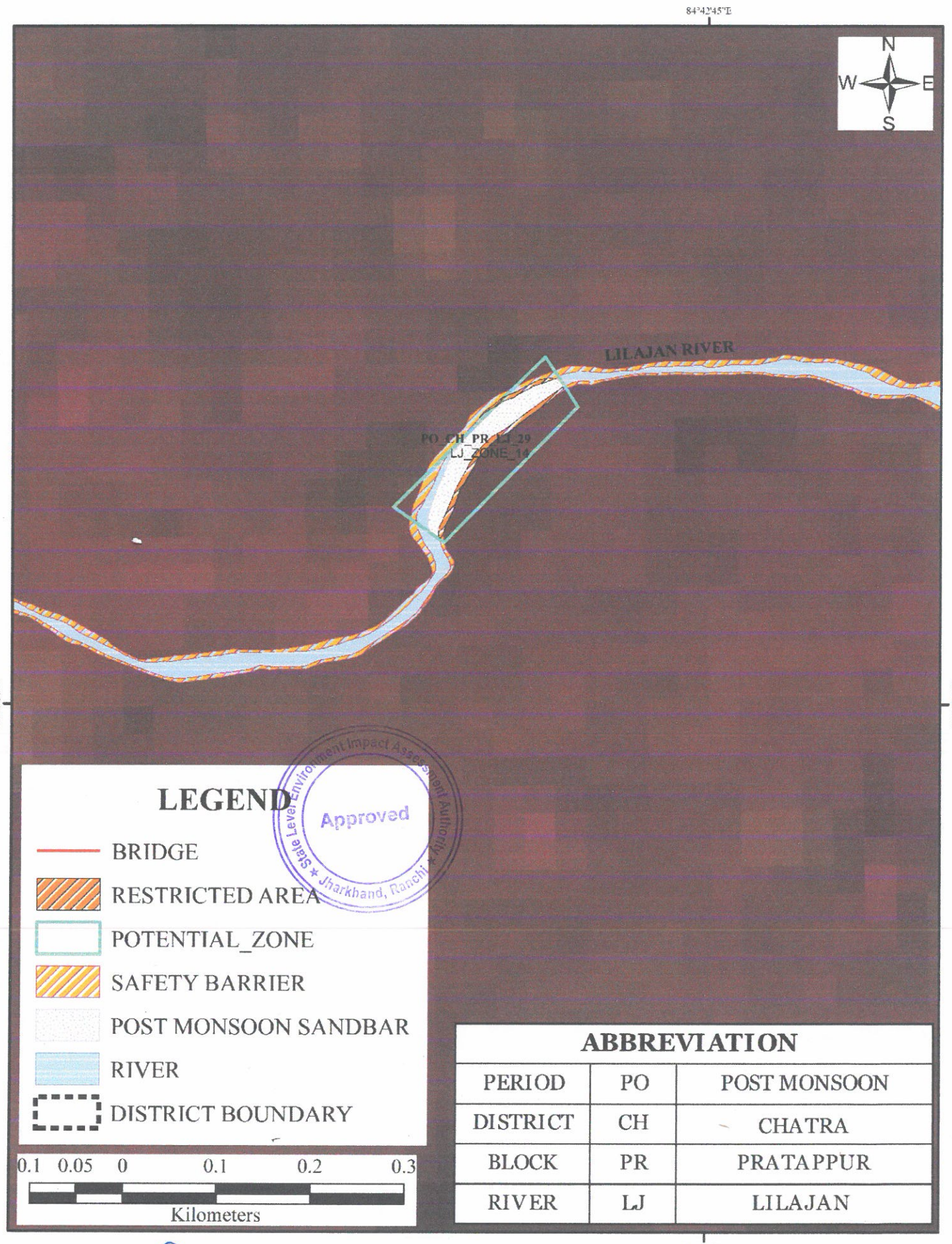
ABBREVIATION		
PERIOD	PO	POST MONSOON
DISTRICT	CH	CHATRA
BLOCK	HG	HUNTERGANJ
RIVER	LJ	LILAJAN

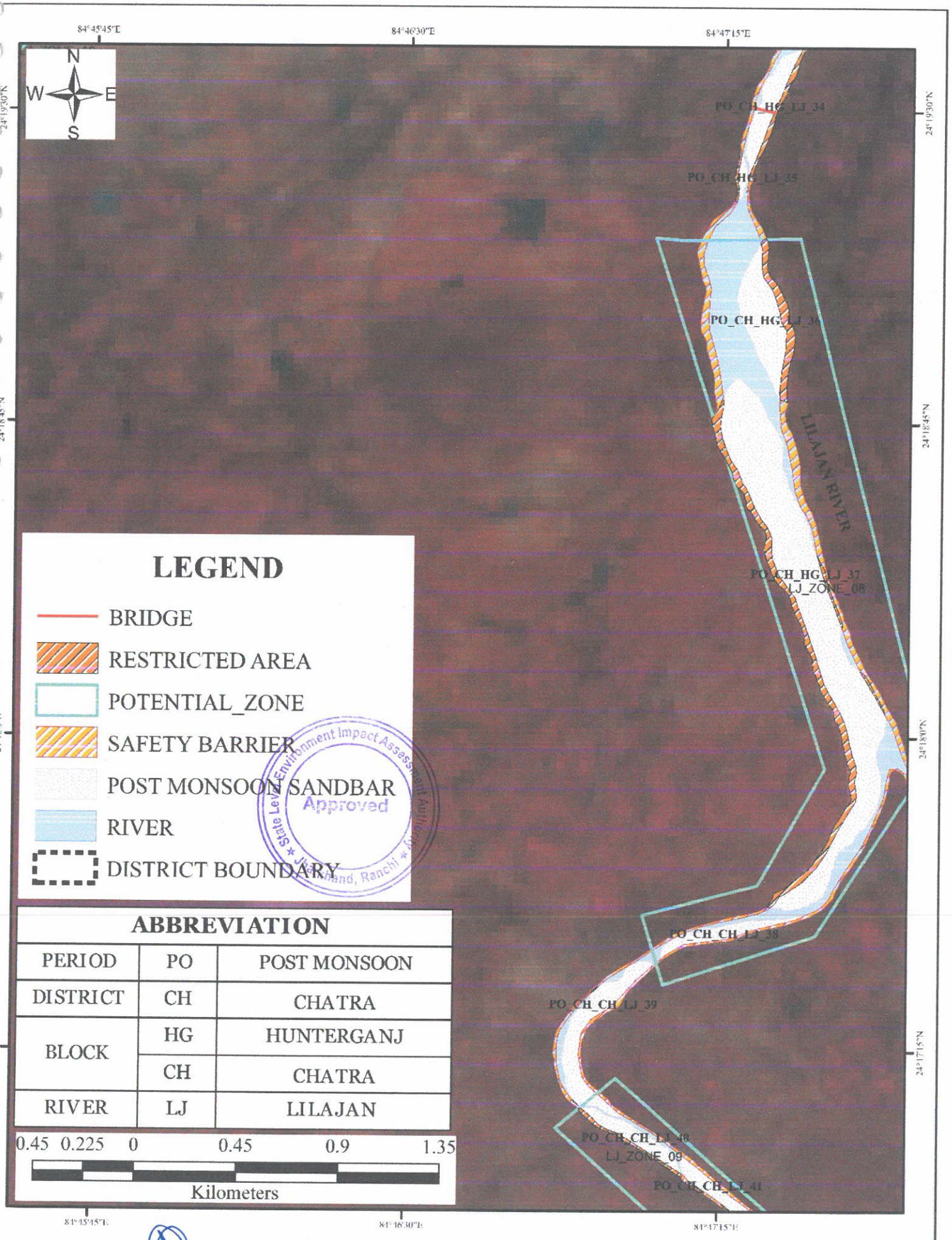


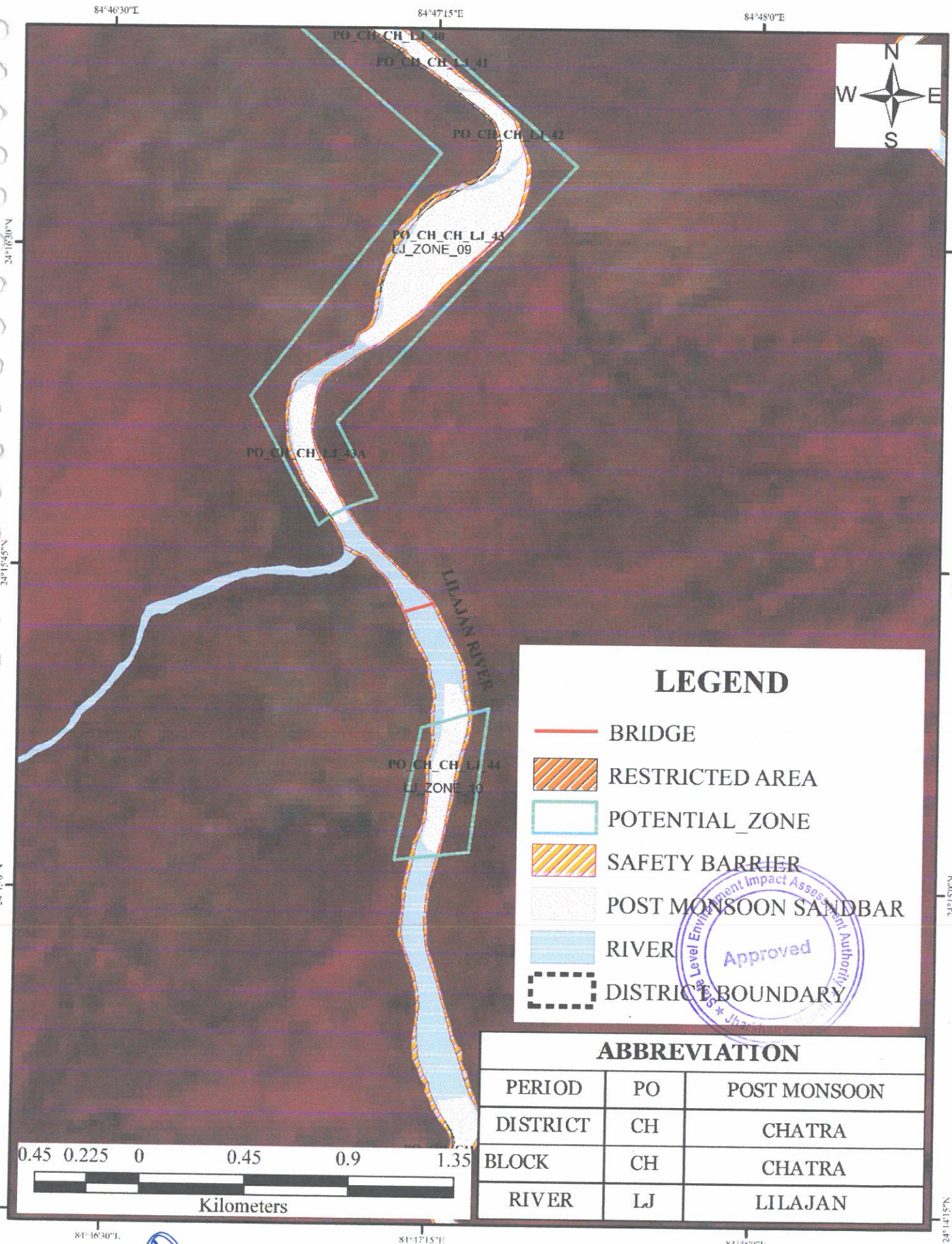
ABBREVIATION		
PERIOD	PO	POST MONSOON
DISTRICT	CH	CHATRA
BLOCK	HG	HUNTERGANJ
RIVER	LJ	LILAJAN



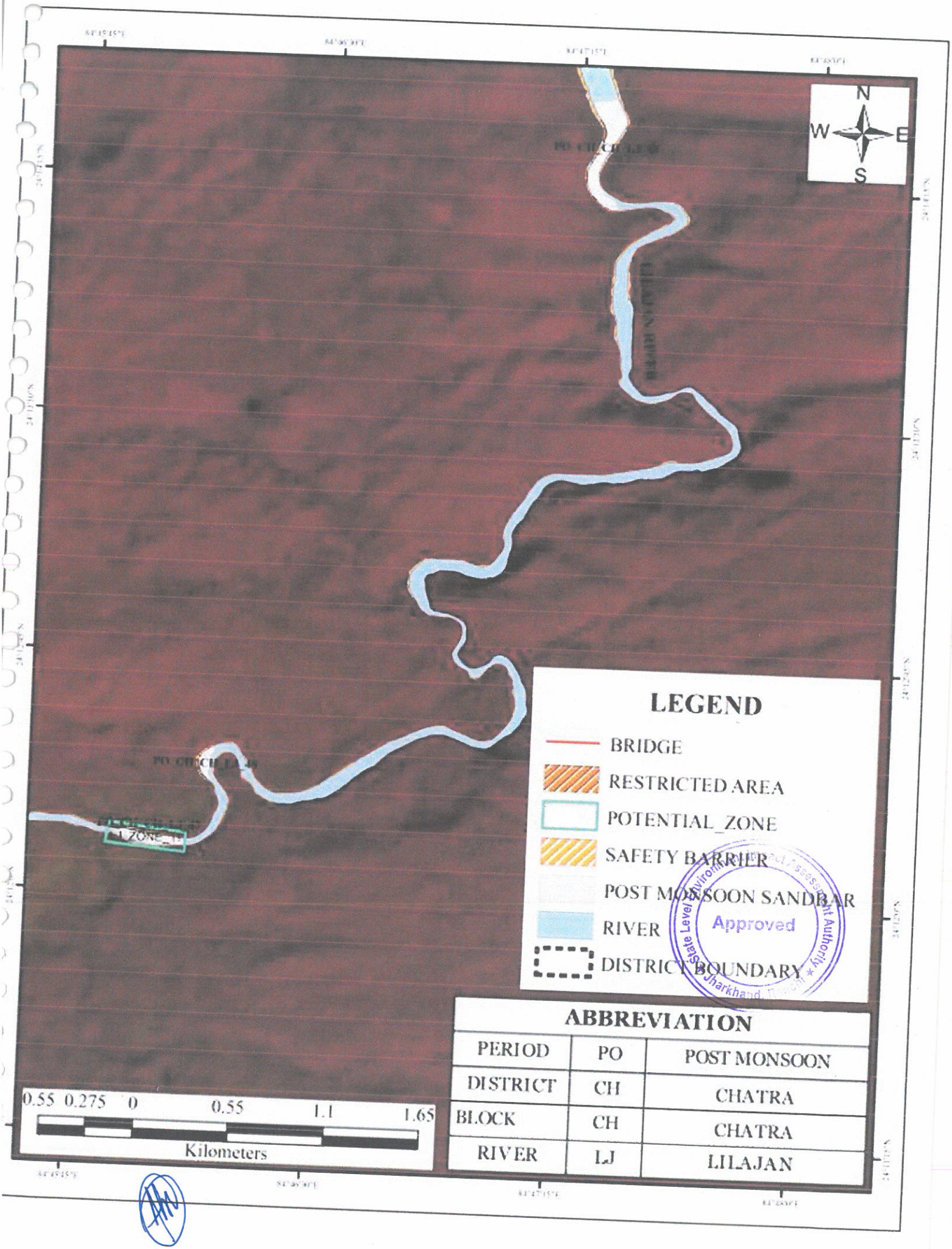
ABBREVIATION		
PERIOD	PO	POST MONSOON
DISTRICT	CH	CHATRA
BLOCK	HG	HUNTERGANJ
RIVER	LJ	LILAJAN

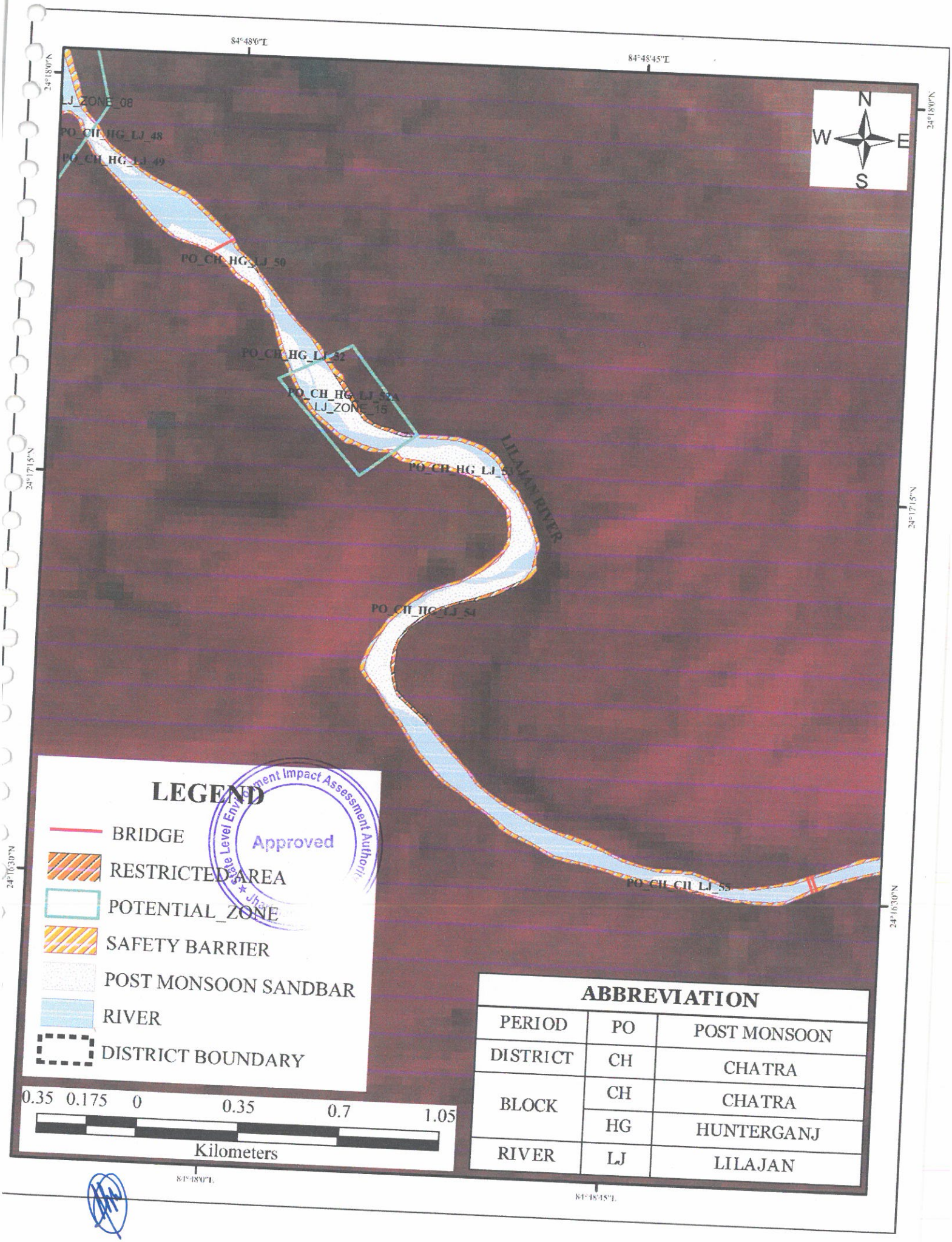

84°42'45"E
N
W
E
S
LILAJAN RIVER
PO_CH_PR_LJ_29
LJ_ZONE_14
24°19'30"N
LEGEND
BRIDGE
RESTRICTED AREA
POTENTIAL_ZONE
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
0.1 0.05 0 0.1 0.2 0.3
Kilometers
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK PR PRATAPPUR
RIVER LJ LILAJAN

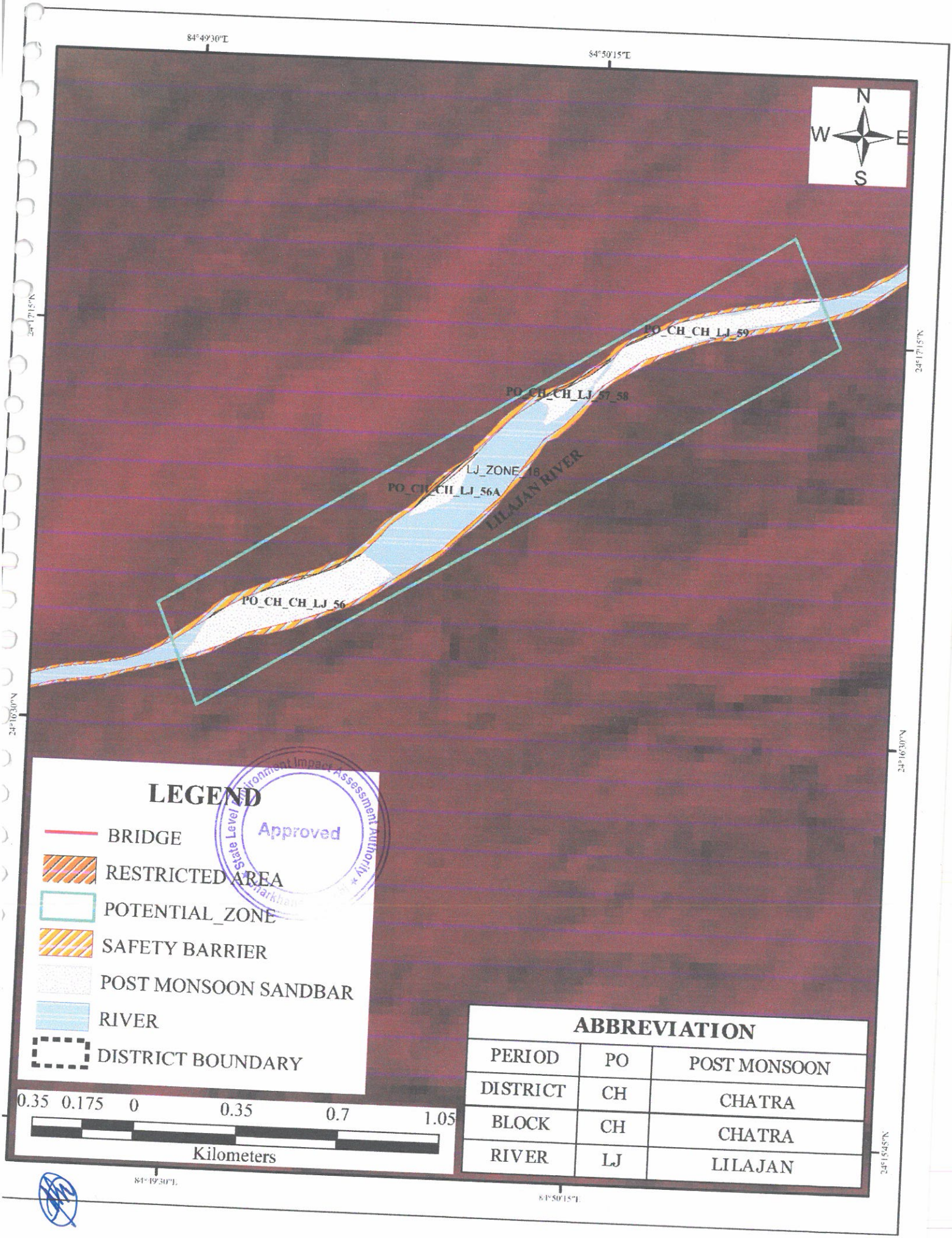

84°45'45"E
84°46'30"E
84°47'15"E
24°19'30"N
24°18'45"N
24°18'0"N
24°17'15"N
N
W
E
S
PO_CH_HG_LJ_34
PO_CH_HG_LJ_35
PO_CH_HG_LJ_36
LILAJAN RIVER
PO_CH_HG_LJ_37
LJ_ZONE_08
PO_CH_CH_LJ_38
PO_CH_CH_LJ_39
PO_CH_CH_LJ_40
LJ_ZONE_09
PO_CH_CH_LJ_41
LEGEND
BRIDGE
RESTRICTED AREA
POTENTIAL_ZONE
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK HG HUNTERGANJ
BLOCK CH CHATRA
RIVER LJ LILAJAN
0.45 0.225 0 0.45 0.9 1.35
Kilometers



ABBREVIATION		
PERIOD	PO	POST MONSOON
DISTRICT	CH	CHATRA
BLOCK	CH	CHATRA
RIVER	LJ	LILAJAN


N
W
E
S
LEGEND
BRIDGE
RESTRICTED AREA
POTENTIAL_ZONE
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
0.55 0.275 0 0.55 1.1 1.65
Kilometers
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK CH CHATRA
RIVER LJ LILAJAN


84°48'0"E
84°48'45"E
24°18'0"N
24°17'15"N
24°16'30"N
LJ_ZONE_08
PO_CH_HG_LJ_48
PO_CH_HG_LJ_49
PO_CH_HG_LJ_50
PO_CH_HG_LJ_52
PO_CH_HG_LJ_53
LJ_ZONE_15
LILAJAN RIVER
PO_CH_HG_LJ_54
PO_CH_CH_LJ_55
N
W
E
S
LEGEND
BRIDGE
RESTRICTED AREA
POTENTIAL_ZONE
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
0.35 0.175 0 0.35 0.7 1.05
Kilometers
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK CH CHATRA
HG HUNTERGANJ
RIVER LJ LILAJAN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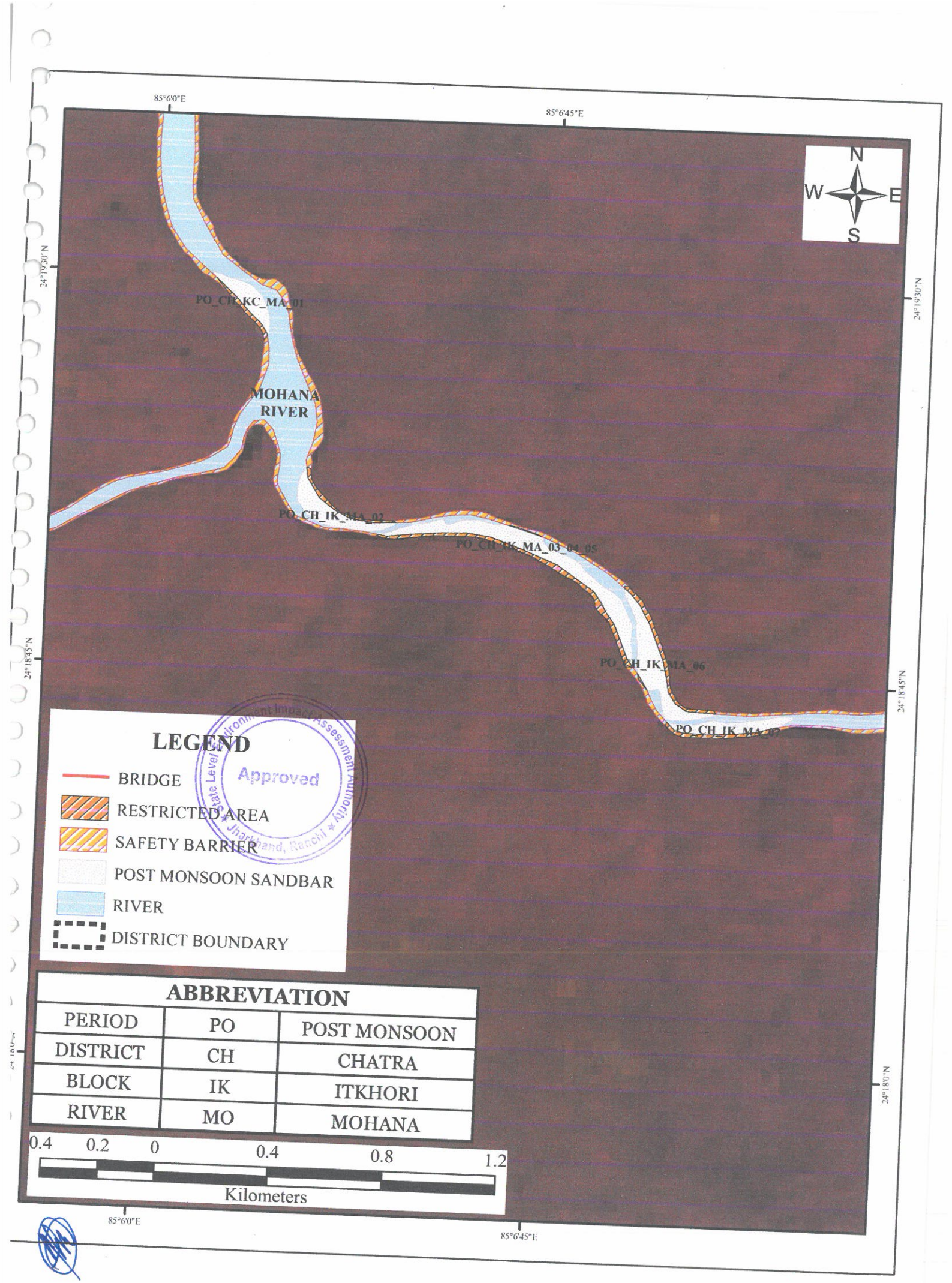
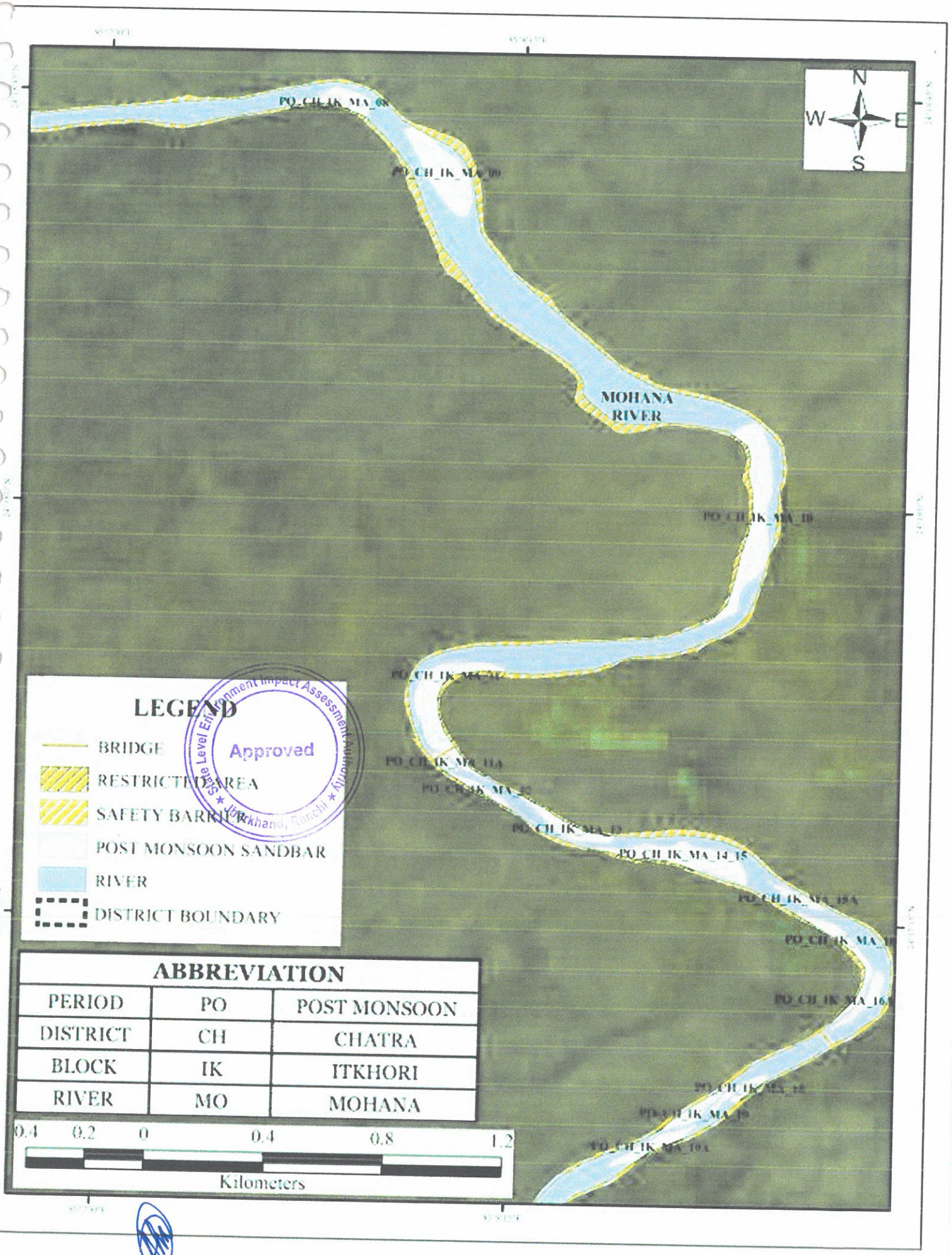
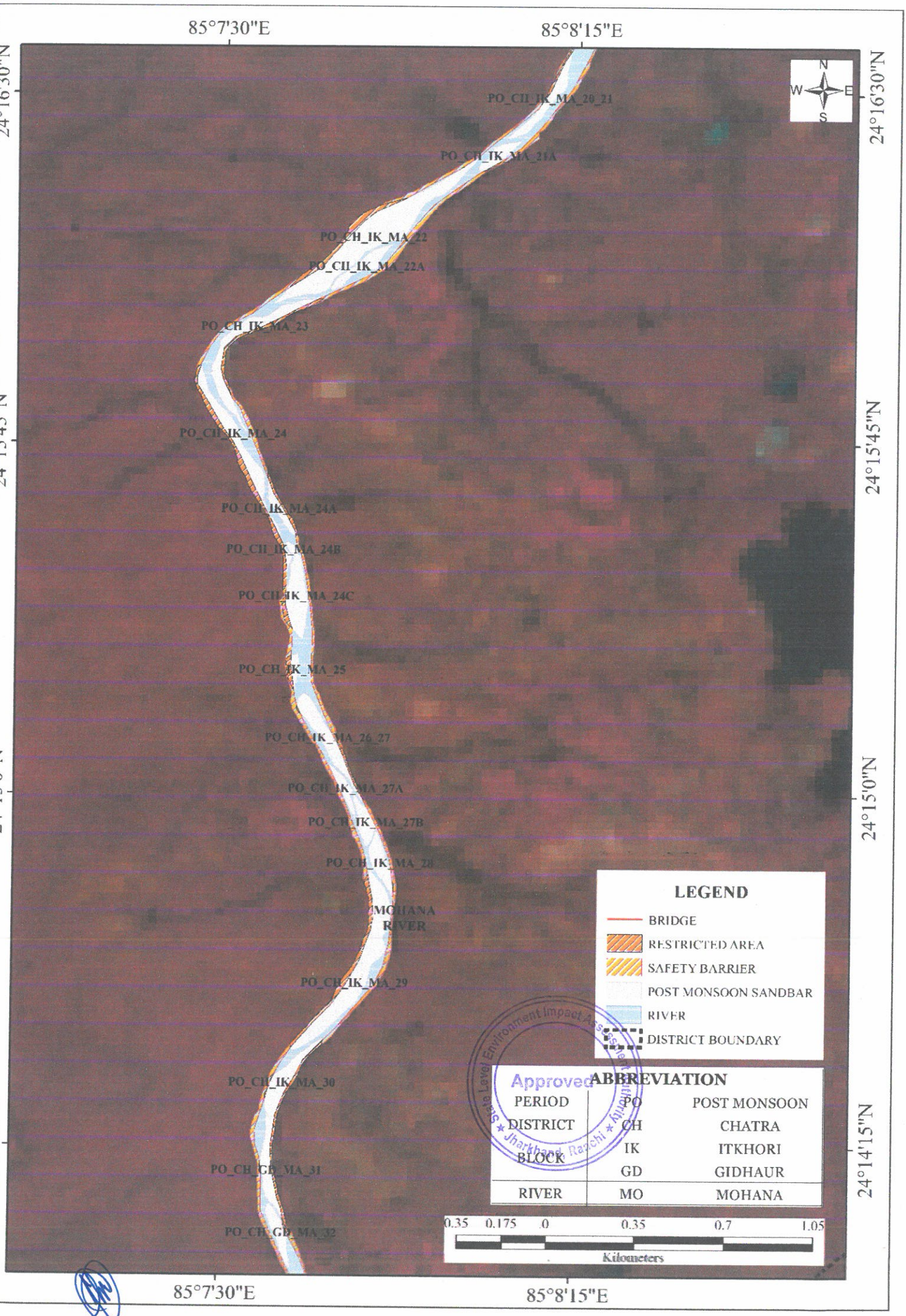
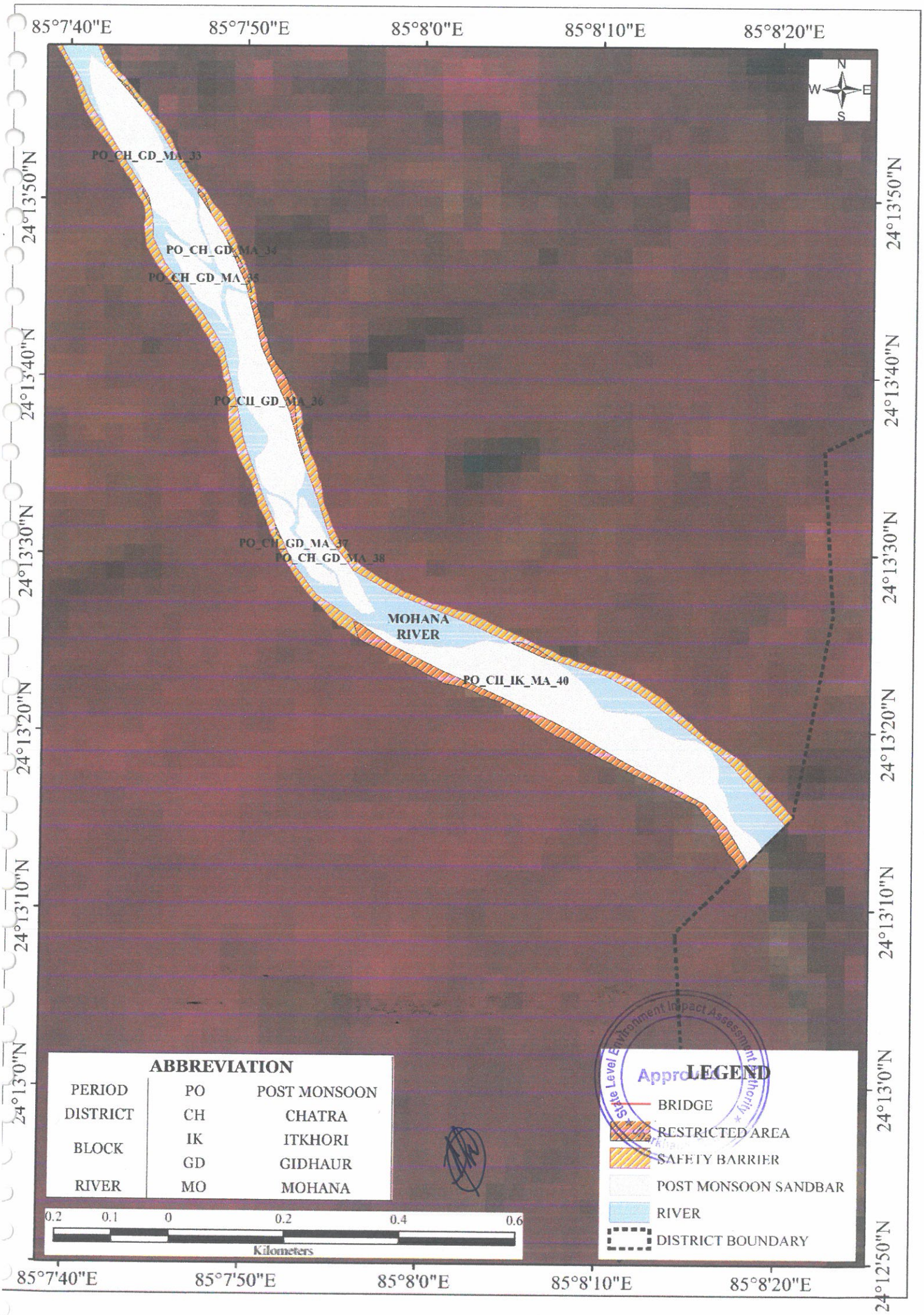
84°50'15"E
24°17'15"N
24°16'30"N
N
W
E
S
PO_CH_CH_LJ_59
PO_CH_CH_LJ_57_58
LJ_ZONE_16
PO_CH_CH_LJ_56A
LILAJAN RIVER
PO_CH_CH_LJ_56
LEGEND
BRIDGE
RESTRICTED AREA
POTENTIAL_ZONE
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
Jharkhand
0.35 0.175 0 0.35 0.7 1.05
Kilometers
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK CH CHATRA
RIVER LJ LILAJAN


85°6'0"E
85°6'45"E
24°19'30"N
24°18'45"N
24°18'0"N
N
W
E
S
PO_CH_KC_MA_01
MOHANA RIVER
PO_CH_IK_MA_02
PO_CH_IK_MA_03_04_05
PO_CH_IK_MA_06
PO_CH_IK_MA_07
LEGEND
BRIDGE
RESTRICTED AREA
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK IK ITKHORI
RIVER MO MOHANA
0.4 0.2 0 0.4 0.8 1.2
Kilometers


N
W
E
S
PO_CH_IK_MA_08
PO_CH_IK_MA_09
MOHANA
RIVER
PO_CH_IK_MA_10
PO_CH_IK_MA_11A
PO_CH_IK_MA_12
PO_CH_IK_MA_13
PO_CH_IK_MA_14_15
PO_CH_IK_MA_15A
PO_CH_IK_MA_16
PO_CH_IK_MA_16A
PO_CH_IK_MA_17
PO_CH_IK_MA_18
PO_CH_IK_MA_19
PO_CH_IK_MA_19A
LEGEND
BRIDGE
RESTRICTED AREA
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK IK ITKHORI
RIVER MO MOHANA
0.4 0.2 0 0.4 0.8 1.2
Kilometers


85°7'30"E
85°8'15"E
24°16'30"N
24°15'45"N
24°15'0"N
24°14'15"N
N
W
E
S
PO_CH_IK_MA_20_21
PO_CH_IK_MA_21A
PO_CH_IK_MA_22
PO_CH_IK_MA_22A
PO_CH_IK_MA_23
PO_CH_IK_MA_24
PO_CH_IK_MA_24A
PO_CH_IK_MA_24B
PO_CH_IK_MA_24C
PO_CH_IK_MA_25
PO_CH_IK_MA_26_27
PO_CH_IK_MA_27A
PO_CH_IK_MA_27B
PO_CH_IK_MA_28
MOHANA RIVER
PO_CH_IK_MA_29
PO_CH_IK_MA_30
PO_CH_GD_MA_31
PO_CH_GD_MA_32
LEGEND
BRIDGE
RESTRICTED AREA
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
IK ITKHORI
BLOCK GD GIDHAUR
RIVER MO MOHANA
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
0.35 0.175 0 0.35 0.7 1.05
Kilometers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85°7'50"E
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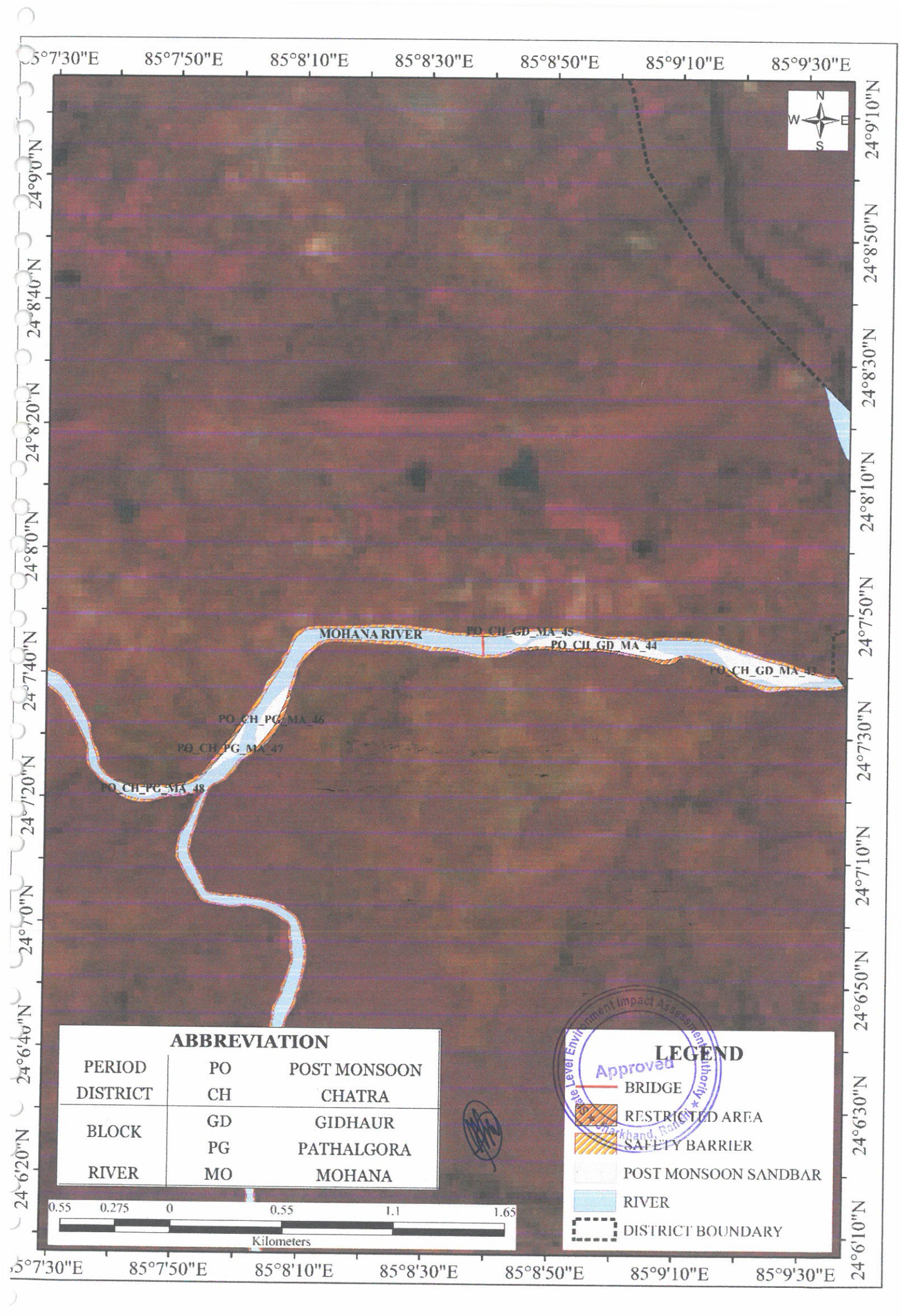
85°8'10"E
85°8'20"E
24°13'50"N
24°13'40"N
24°13'30"N
24°13'20"N
24°13'10"N
24°13'0"N
24°12'50"N
N
W
E
S
PO_CH_GD_MA_33
PO_CH_GD_MA_34
PO_CH_GD_MA_35
PO_CH_GD_MA_36
PO_CH_GD_MA_37
PO_CH_GD_MA_38
MOHANA RIVER
PO_CH_IK_MA_40
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK IK ITKHORI
GD GIDHAUR
RIVER MO MOHANA
0.2 0.1 0 0.2 0.4 0.6
Kilometers
LEGEND
BRIDGE
RESTRICTED AREA
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority


85°8'10"E
85°8'20"E
85°8'30"E
85°8'40"E
85°8'50"E
85°9'0"E
24°10'10"N
24°10'0"N
24°9'50"N
24°9'40"N
24°9'30"N
24°9'20"N
24°9'10"N
24°9'0"N
24°8'50"N
N
W
E
S
MOHANA RIVER
PO_CH_GD_MA_41
PO_CH_GD_MA_42
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK GD GIDHAUR
RIVER MO MOHANA
0.25 0.125 0 0.25 0.5 0.75
Kilometers
LEGEND
BRIDGE
RESTRICTED AREA
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority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24°8'40"N
24°8'30"N
24°8'20"N
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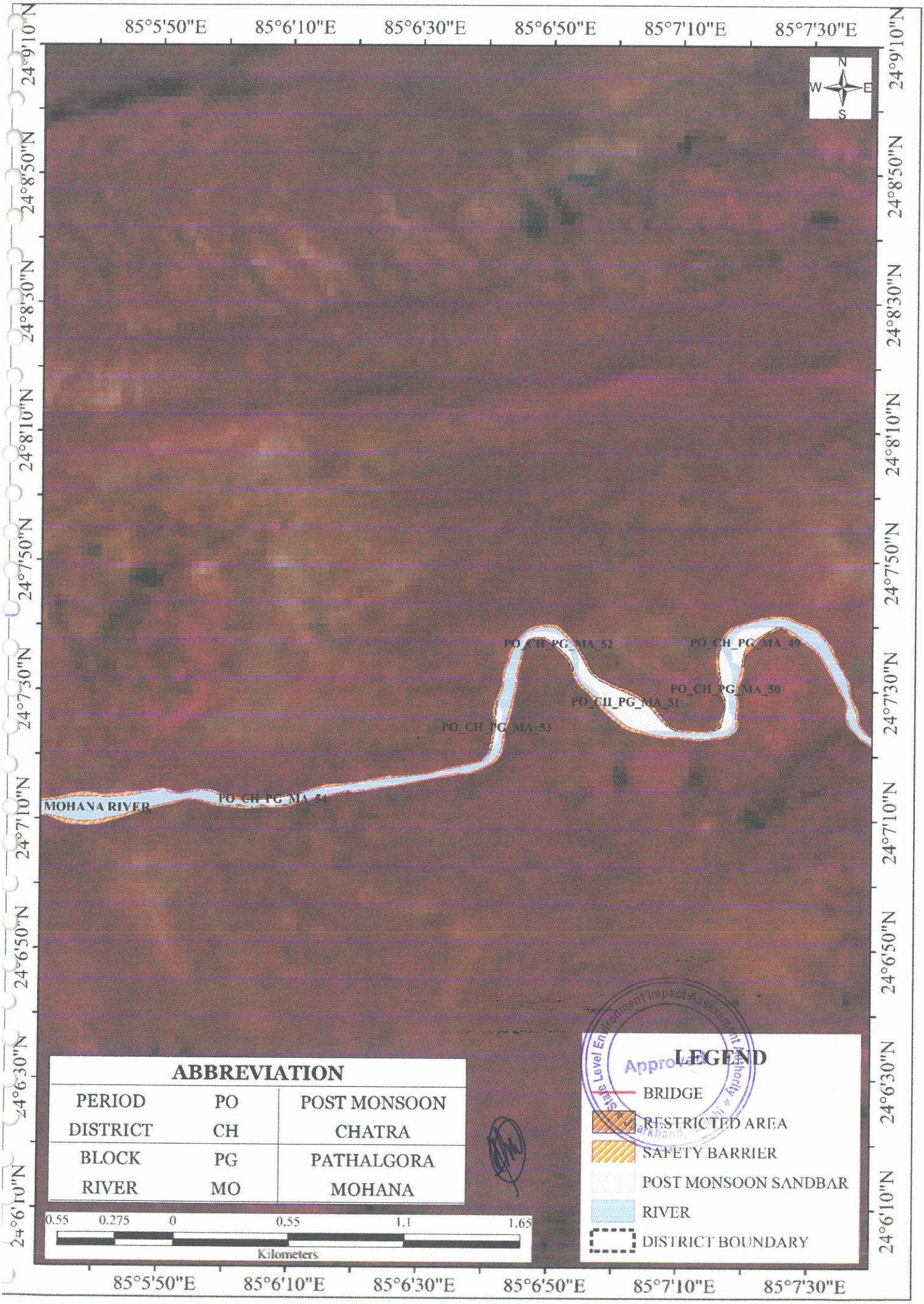
24°7'0"N
24°6'50"N
24°6'40"N
24°6'30"N
24°6'20"N
24°6'10"N
N
W
E
S
MOHANA RIVER
PO_CH_GD_MA_45
PO_CH_GD_MA_44
PO_CH_GD_MA_43
PO_CH_PG_MA_46
PO_CH_PG_MA_47
PO_CH_PG_MA_48
ABBREVIATION
PERIOD
PO
POST MONSOON
DISTRICT
CH
CHATRA
BLOCK
GD
GIDHAUR
PG
PATHALGORA
RIVER
MO
MOHANA
0.55
0.275
0
0.55
1.1
1.65
Kilometers
LEGEND
BRIDGE
RESTRICTED AREA
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi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85°7'10"E
85°7'30"E
24°9'10"N
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24°8'30"N
24°8'10"N
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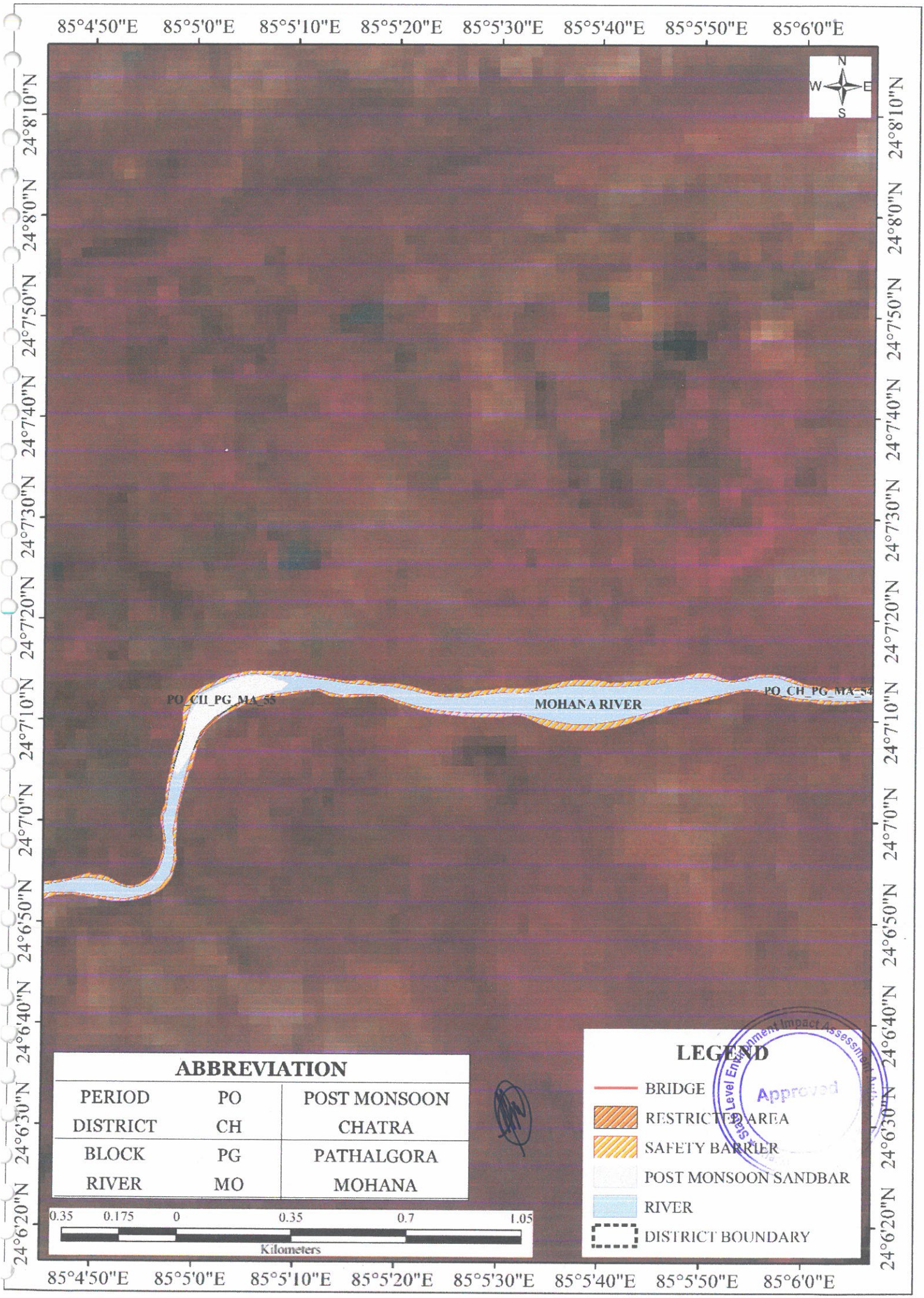
24°6'10"N
N
W
E
S
PO_CH_PG_MA_52
PO_CH_PG_MA_49
PO_CH_PG_MA_50
PO_CH_PG_MA_51
PO_CH_PG_MA_53
PO_CH_PG_MA_54
MOHANA RIVER
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK PG PATHALGORA
RIVER MO MOHANA
0.55 0.275 0 0.55 1.1 1.65
Kilometers
LEGEND
BRIDGE
RESTRICTED AREA
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY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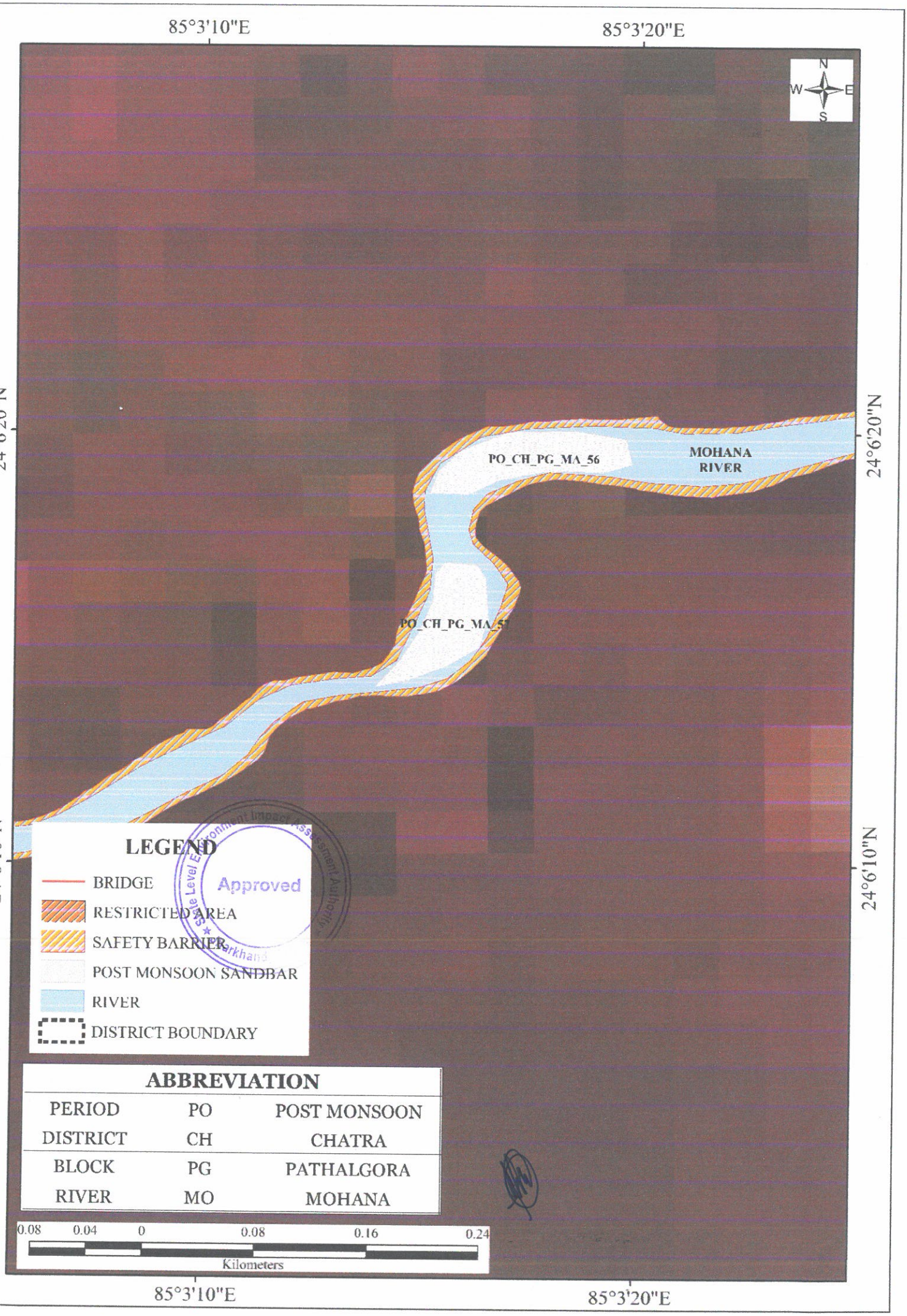
24°7'20"N
24°7'10"N
24°7'0"N
24°6'50"N
24°6'40"N
24°6'30"N
24°6'20"N
N
W
E
S
PO_CH_PG_MA_55
MOHANA RIVER
PO_CH_PG_MA_54
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK PG PATHALGORA
RIVER MO MOHANA
0.35 0.175 0 0.35 0.7 1.05
Kilometers
LEGEND
BRIDGE
RESTRICTED AREA
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved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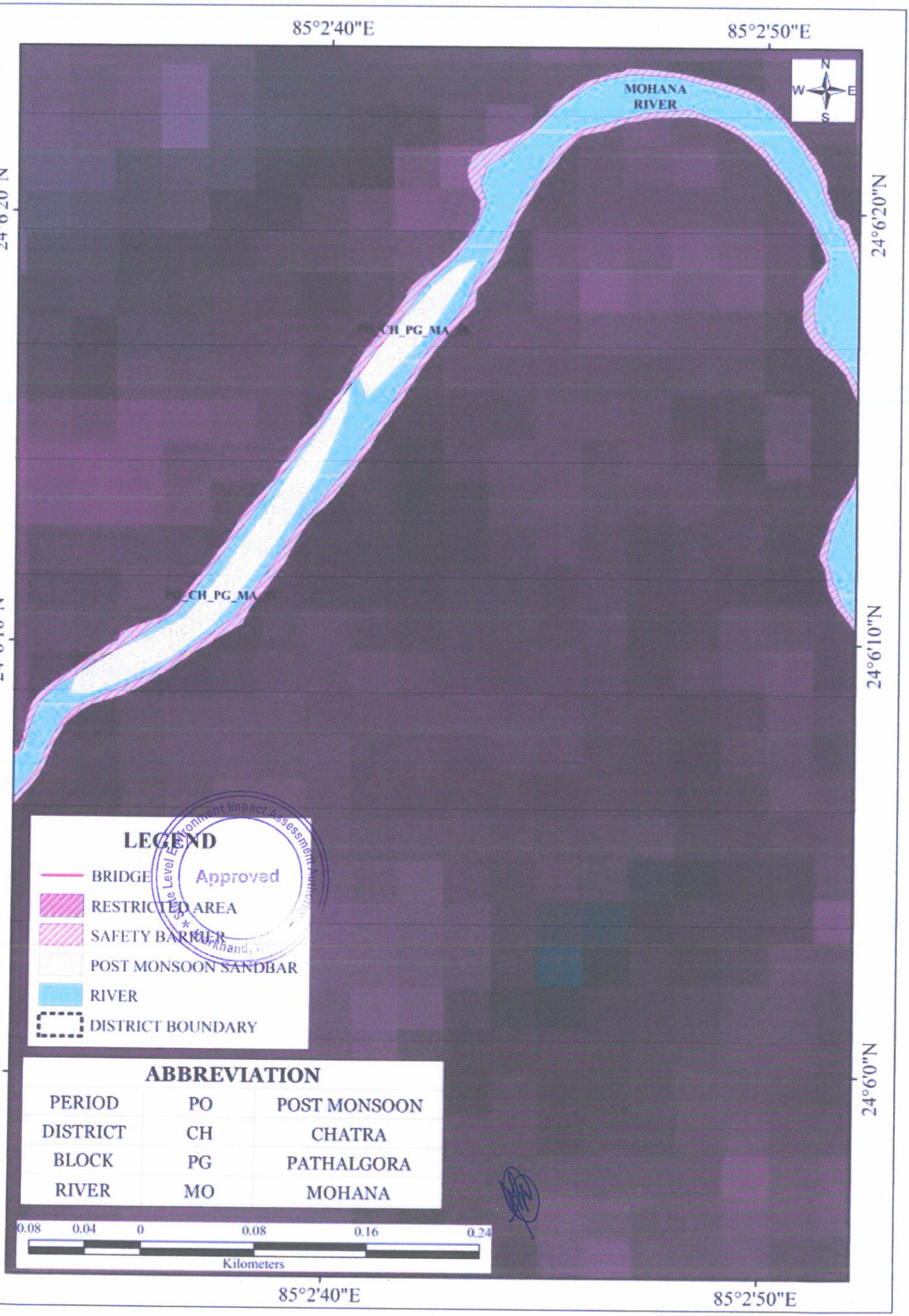
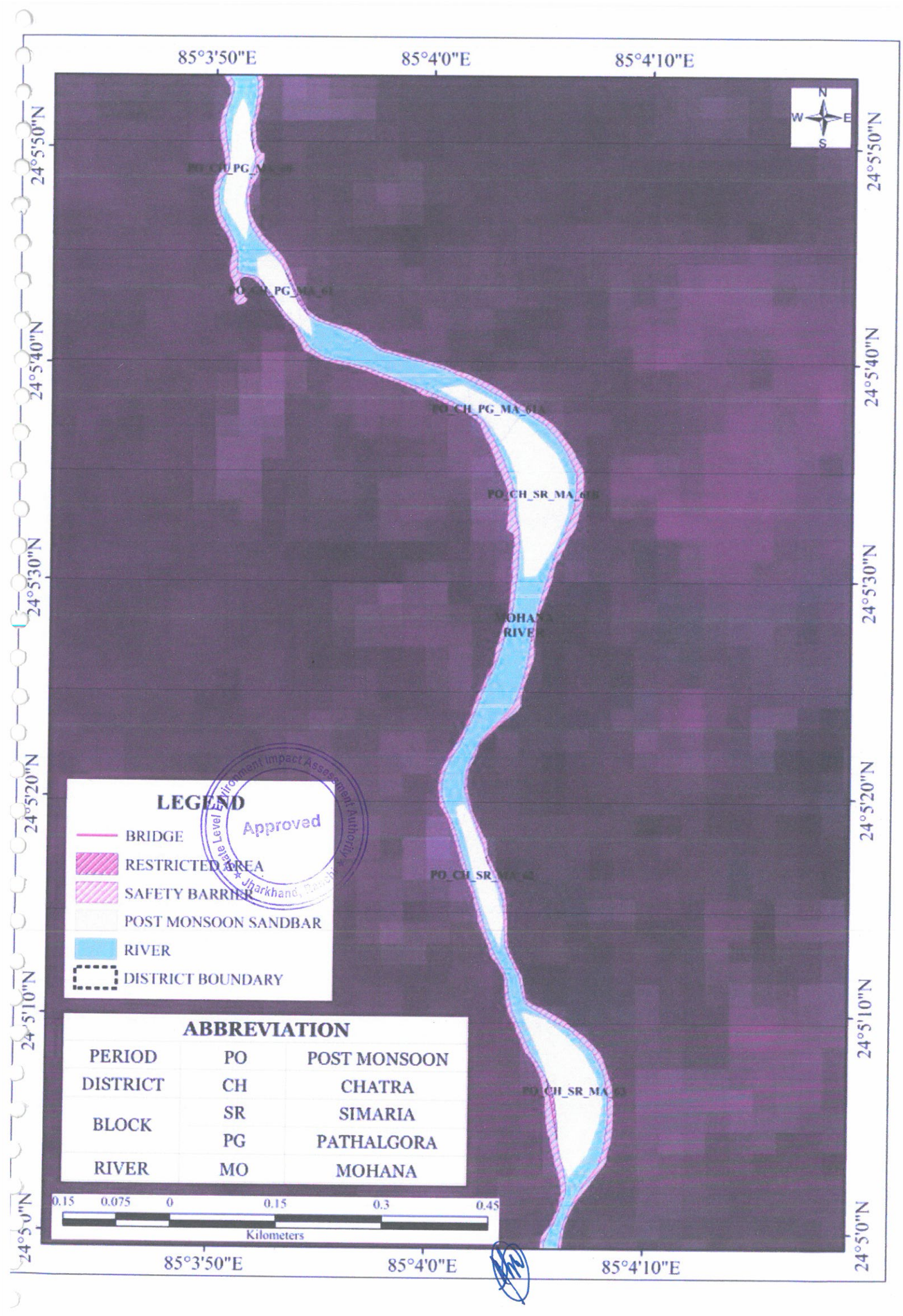
85°3'20"E
24°6'20"N
24°6'10"N
N
W
E
S
PO_CH_PG_MA_56
MOHANA RIVER
PO_CH_PG_MA_57
LEGEND
BRIDGE
RESTRICTED AREA
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
Jharkhand
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK PG PATHALGORA
RIVER MO MOHANA
0.08 0.04 0 0.08 0.16 0.24
Kilometers


85°2'40"E
85°2'50"E
24°6'20"N
24°6'10"N
24°6'0"N
MOHANA RIVER
N
W
E
S
LEGEND
BRIDGE
RESTRICTED AREA
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK PG PATHALGORA
RIVER MO MOHANA
0.08 0.04 0 0.08 0.16 0.24
Kilometers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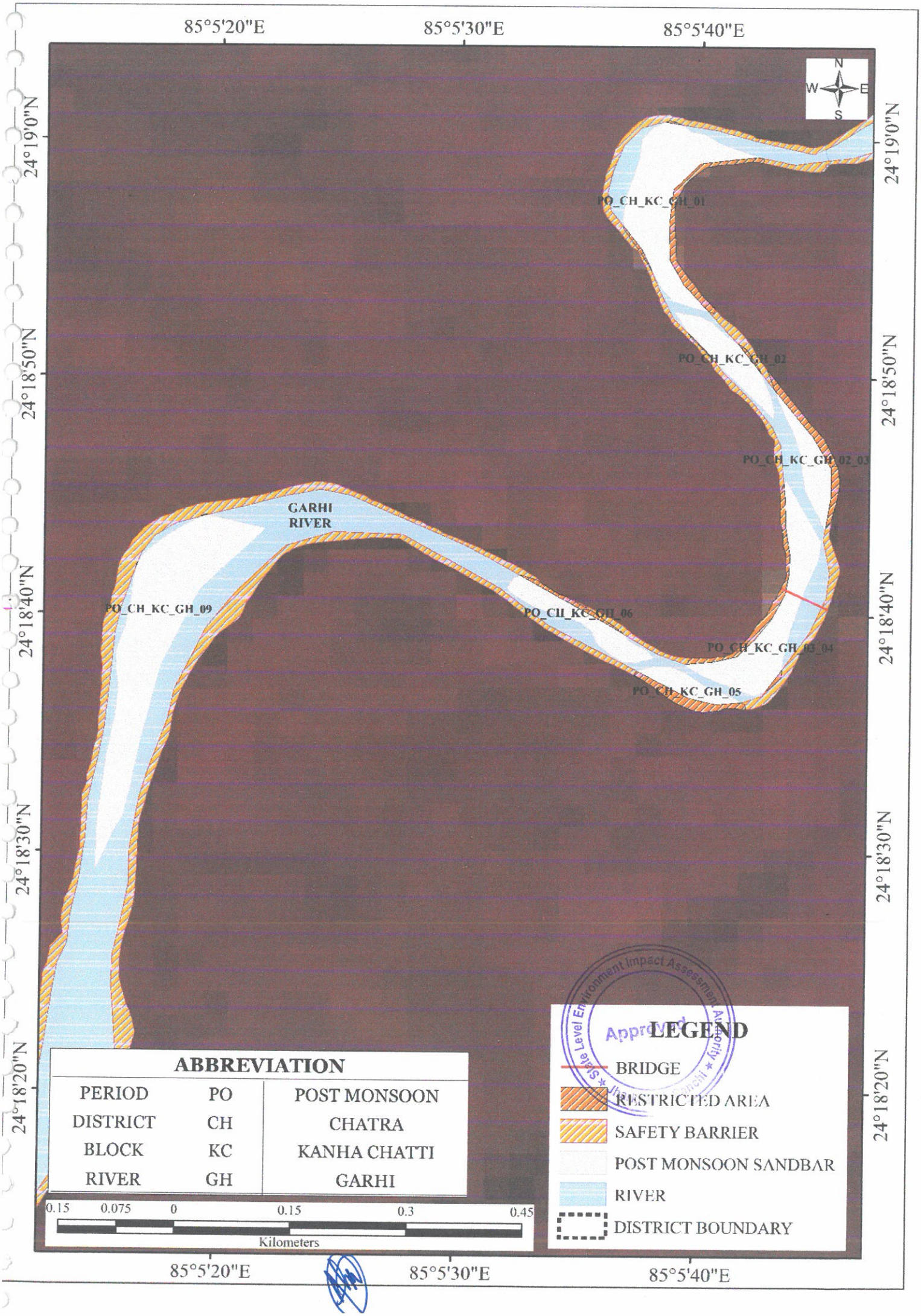
85°4'10"E
24°5'50"N
24°5'40"N
24°5'30"N
24°5'20"N
24°5'10"N
24°5'0"N
N
W
E
S
PO_CH_PG_MA_61A
PO_CH_SR_MA_61B
MOHANA RIVER
PO_CH_SR_MA_62
PO_CH_SR_MA_63
LEGEND
BRIDGE
RESTRICTED AREA
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK SR SIMARIA
PG PATHALGORA
RIVER MO MOHANA
0.15 0.075 0 0.15 0.3 0.45
Kilometers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85°5'40"E
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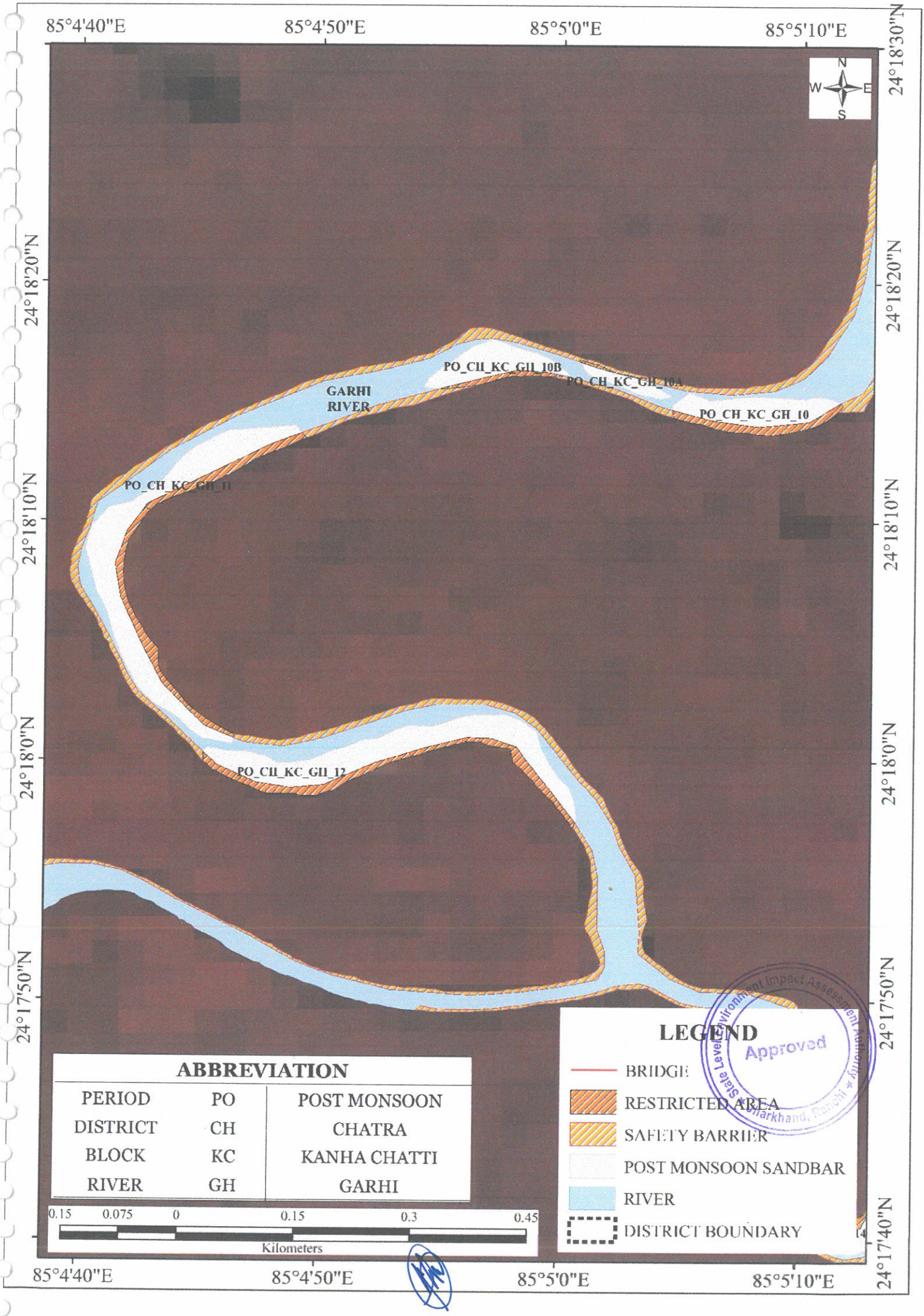
24°18'50"N
24°18'40"N
24°18'30"N
24°18'20"N
N
W
E
S
PO_CH_KC_GH_01
PO_CH_KC_GH_02
PO_CH_KC_GH_02_03
GARHI
RIVER
PO_CH_KC_GH_09
PO_CH_KC_GH_06
PO_CH_KC_GH_03_04
PO_CH_KC_GH_05
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK KC KANHA CHATTI
RIVER GH GARHI
0.15 0.075 0 0.15 0.3 0.45
Kilometers
LEGEND
BRIDGE
RESTRICTED AREA
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
State Level Environment Impact Assessment Authority
Approved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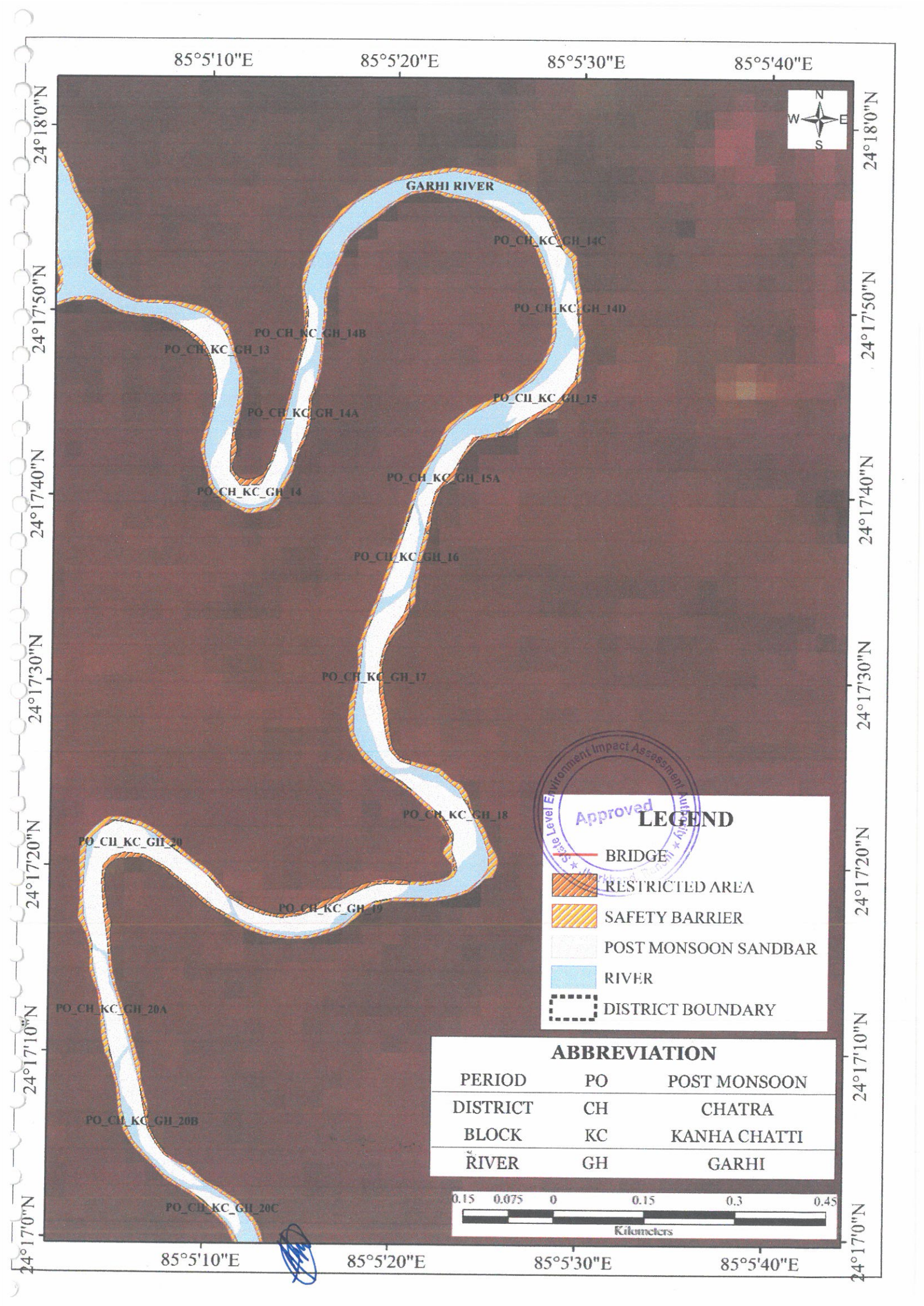
24°17'50"N
24°17'40"N
N
W
E
S
GARHI
RIVER
PO_CH_KC_GH_10B
PO_CH_KC_GH_10A
PO_CH_KC_GH_10
PO_CH_KC_GH_11
PO_CH_KC_GH_12
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK KC KANHA CHATTI
RIVER GH GARHI
0.15 0.075 0 0.15 0.3 0.45
Kilometers
LEGEND
BRIDGE
RESTRICTED AREA
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi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24°17'0"N
N
W
E
S
GARHI RIVER
PO_CH_KC_GH_14C
PO_CH_KC_GH_14D
PO_CH_KC_GH_14B
PO_CH_KC_GH_13
PO_CH_KC_GH_15
PO_CH_KC_GH_14A
PO_CH_KC_GH_15A
PO_CH_KC_GH_14
PO_CH_KC_GH_16
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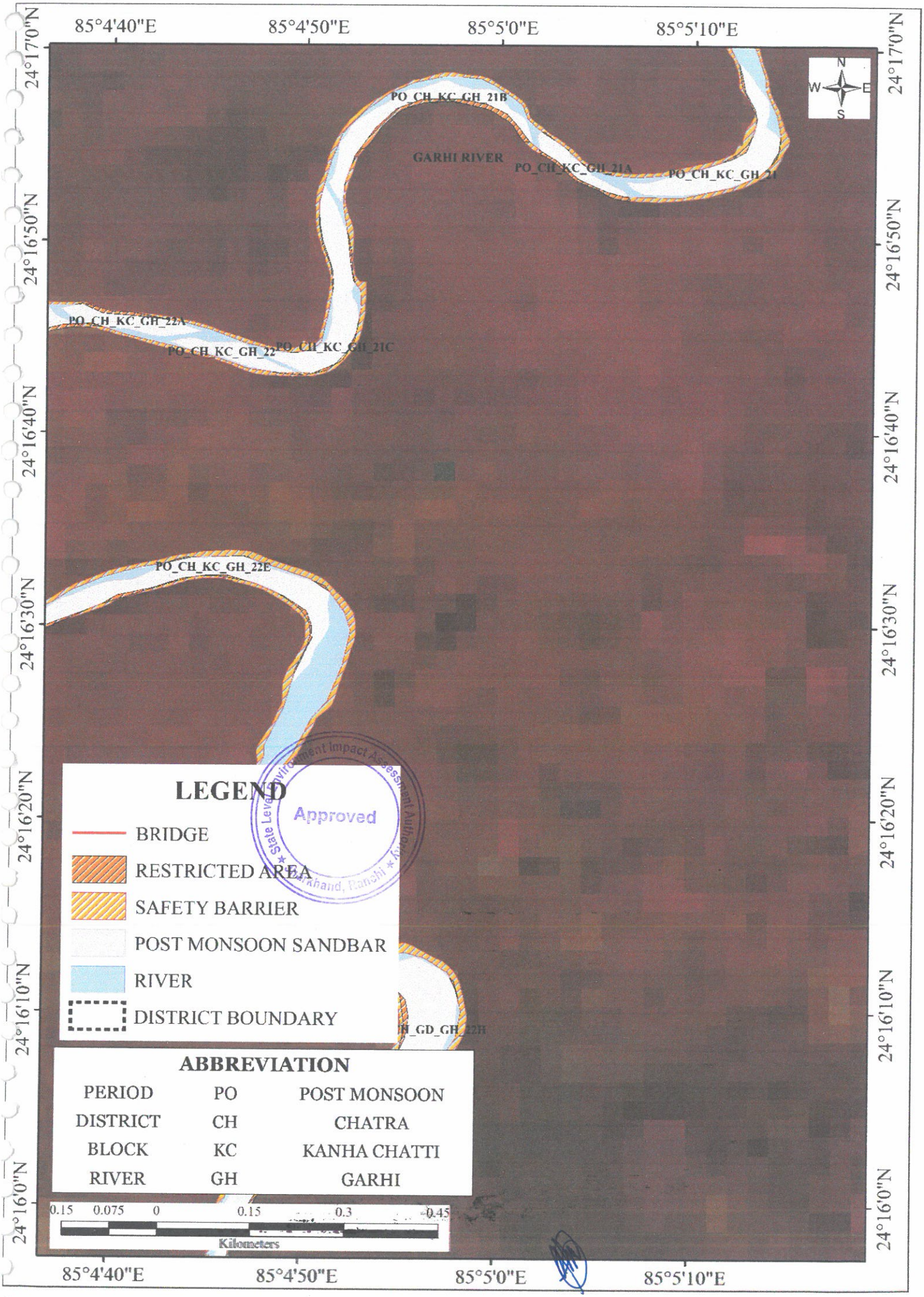
PO_CH_KC_GH_19
PO_CH_KC_GH_20A
PO_CH_KC_GH_20B
PO_CH_KC_GH_20C
State Level Environment Impact Assessment Authority
Approved
LEGEND
BRIDGE
RESTRICTED AREA
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK KC KANHA CHATTI
RIVER GH GARHI
0.15 0.075 0 0.15 0.3 0.45
Kilometers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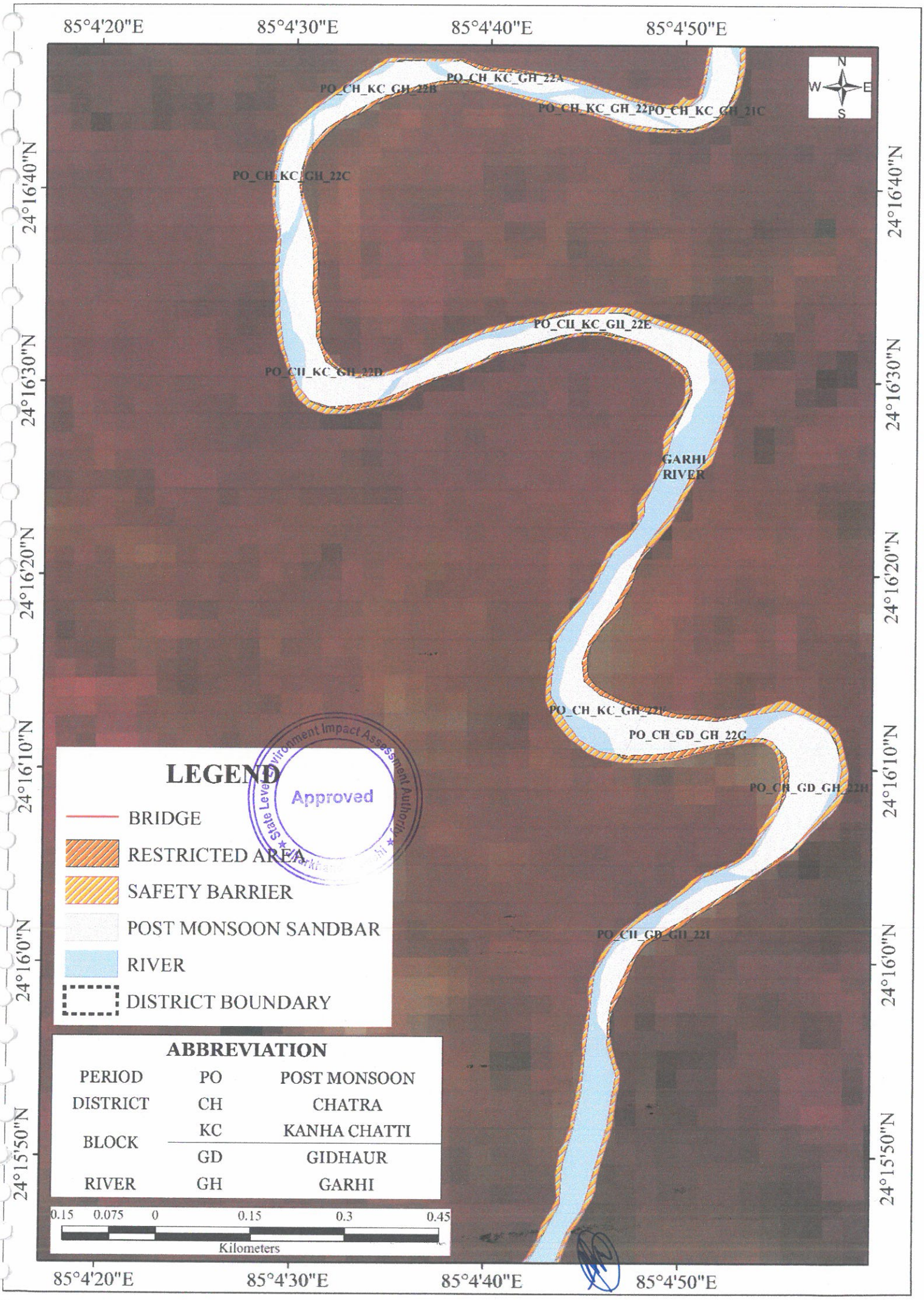
24°16'20"N
24°16'10"N
24°16'0"N
N
W
E
S
PO_CH_KC_GH_21B
GARHI RIVER
PO_CH_KC_GH_21A
PO_CH_KC_GH_21
PO_CH_KC_GH_22A
PO_CH_KC_GH_22
PO_CH_KC_GH_21C
PO_CH_KC_GH_22E
LEGEND
BRIDGE
RESTRICTED AREA
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK KC KANHA CHATTI
RIVER GH GARHI
0.15 0.075 0 0.15 0.3 0.45
Kilometers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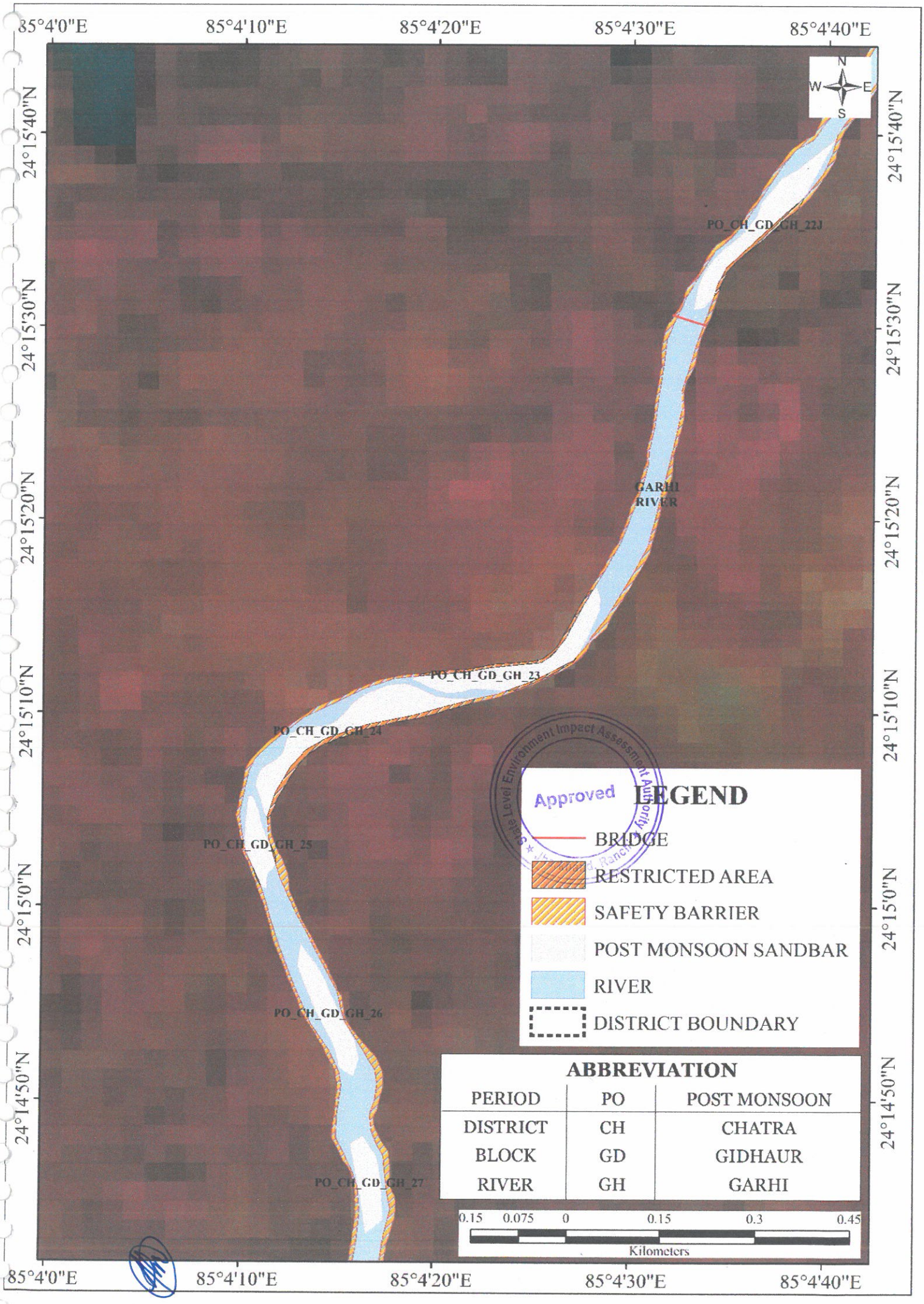
24°16'0"N
24°15'50"N
N
W
E
S
PO_CH_KC_GH_22B
PO_CH_KC_GH_22A
PO_CH_KC_GH_22
PO_CH_KC_GH_21C
PO_CH_KC_GH_22C
PO_CH_KC_GH_22E
PO_CH_KC_GH_22D
GARHI RIVER
PO_CH_KC_GH_22F
PO_CH_GD_GH_22G
PO_CH_GD_GH_22H
PO_CH_GD_GH_22I
LEGEND
BRIDGE
RESTRICTED AREA
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK KC KANHA CHATTI
GD GIDHAUR
RIVER GH GARHI
0.15 0.075 0 0.15 0.3 0.45
Kilometers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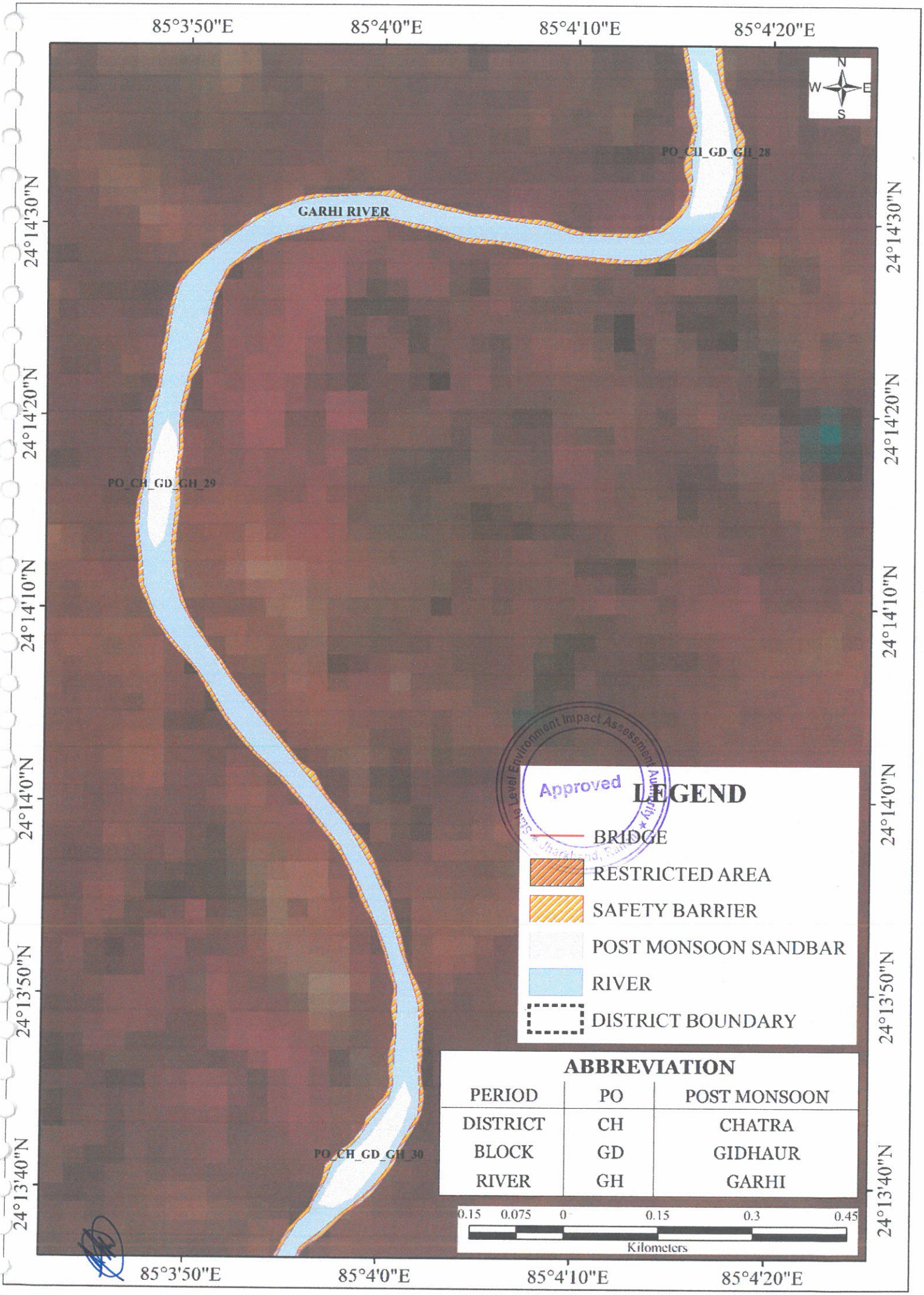
24°15'20"N
24°15'10"N
24°15'0"N
24°14'50"N
N
W
E
S
PO_CH_GD_GH_22J
GARHI RIVER
PO_CH_GD_GH_23
PO_CH_GD_GH_24
PO_CH_GD_GH_25
PO_CH_GD_GH_26
PO_CH_GD_GH_27
Approved
State Level Environment Impact Assessment Authority
LEGEND
BRIDGE
RESTRICTED AREA
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
ABBREVIATION
PERIOD | PO | POST MONSOON
DISTRICT | CH | CHATRA
BLOCK | GD | GIDHAUR
RIVER | GH | GARHI
0.15 0.075 0 0.15 0.3 0.45
Kilometers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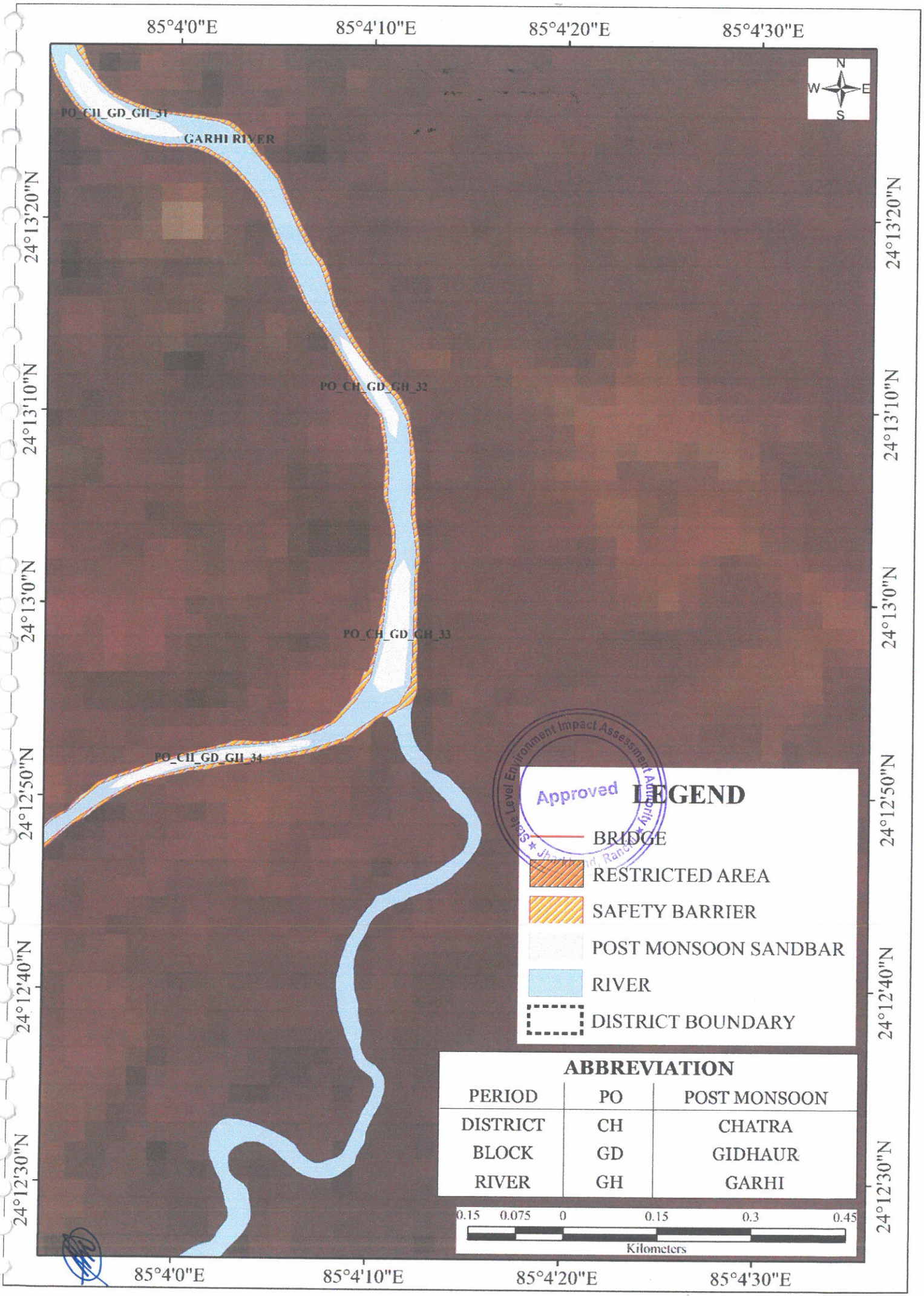
24°13'50"N
24°13'40"N
N
W
E
S
GARHI RIVER
PO_CH_GD_GH_28
PO_CH_GD_GH_29
PO_CH_GD_GH_30
Approved
State Level Environment Impact Assessment Authority
LEGEND
BRIDGE
RESTRICTED AREA
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
ABBREVIATION
PERIOD | PO | POST MONSOON
DISTRICT | CH | CHATRA
BLOCK | GD | GIDHAUR
RIVER | GH | GARHI
0.15 0.075 0 0.15 0.3 0.45
Kilometers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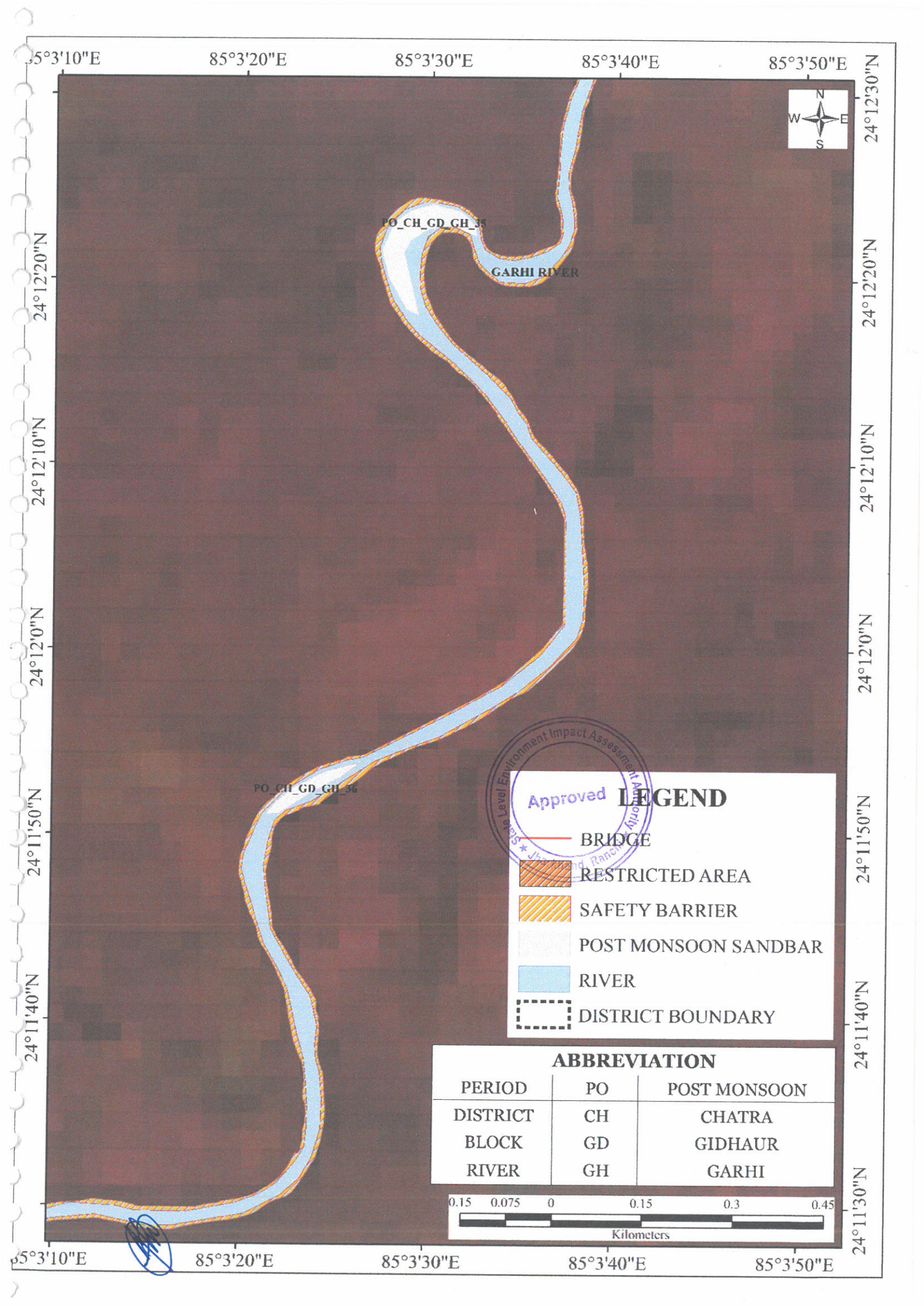
24°12'40"N
24°12'30"N
N
W
E
S
PO_CH_GD_GH_31
GARHI RIVER
PO_CH_GD_GH_32
PO_CH_GD_GH_33
PO_CH_GD_GH_34
Approved
State Level Environment Impact Assessment Authority
LEGEND
BRIDGE
RESTRICTED AREA
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
ABBREVIATION
PERIOD | PO | POST MONSOON
DISTRICT | CH | CHATRA
BLOCK | GD | GIDHAUR
RIVER | GH | GARHI
0.15 0.075 0 0.15 0.3 0.45
Kilometers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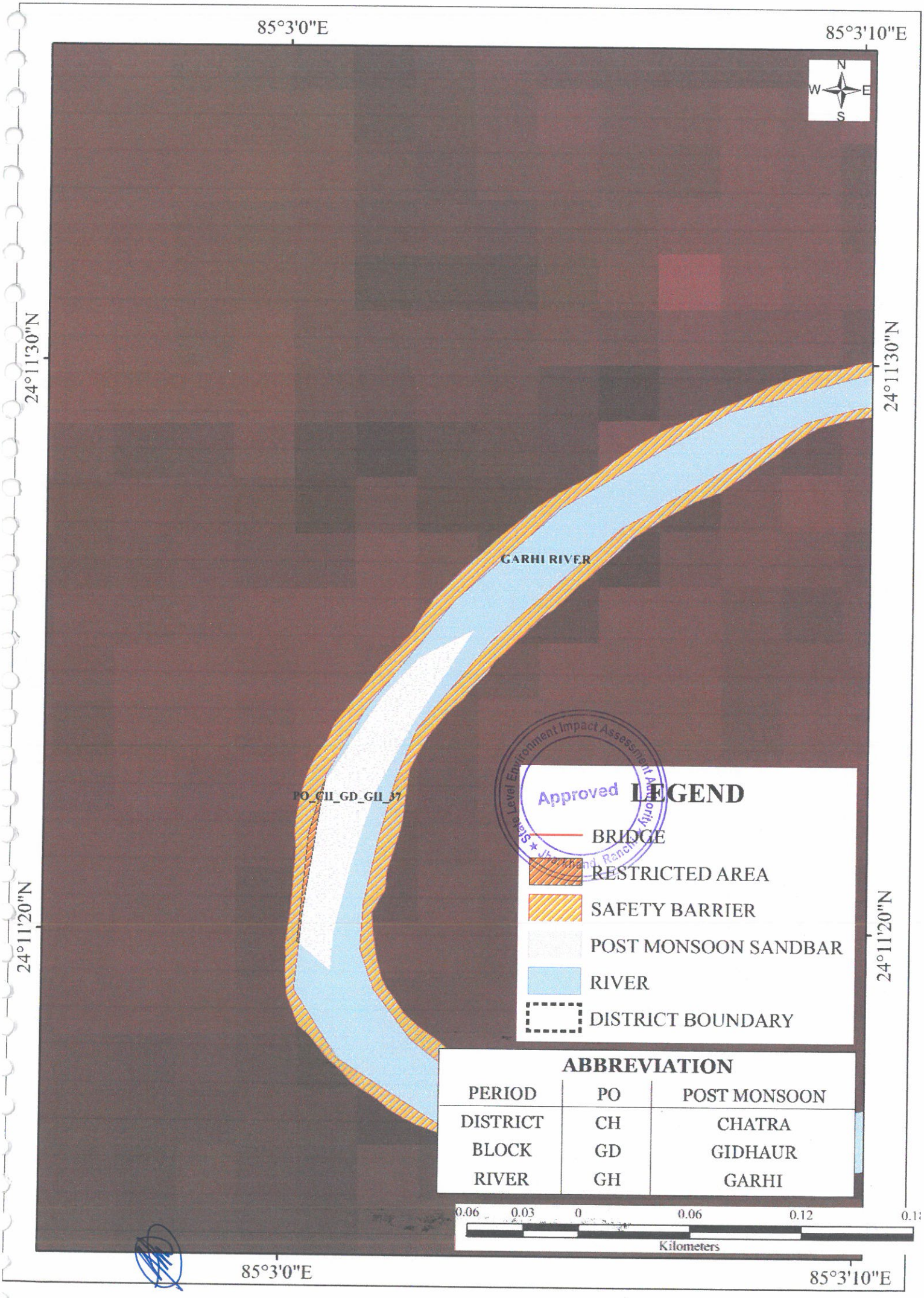
24°12'10"N
24°12'0"N
24°11'50"N
24°11'40"N
24°11'30"N
N
W
E
S
PO_CH_GD_GH_35
GARHI RIVER
PO_CH_GD_GH_36
Approved
State Level Environment Impact Assessment Authority
Jharkhand Ranchi
LEGEND
BRIDGE
RESTRICTED AREA
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
ABBREVIATION
PERIOD | PO | POST MONSOON
DISTRICT | CH | CHATRA
BLOCK | GD | GIDHAUR
RIVER | GH | GARHI
0.15 0.075 0 0.15 0.3 0.45
Kilometers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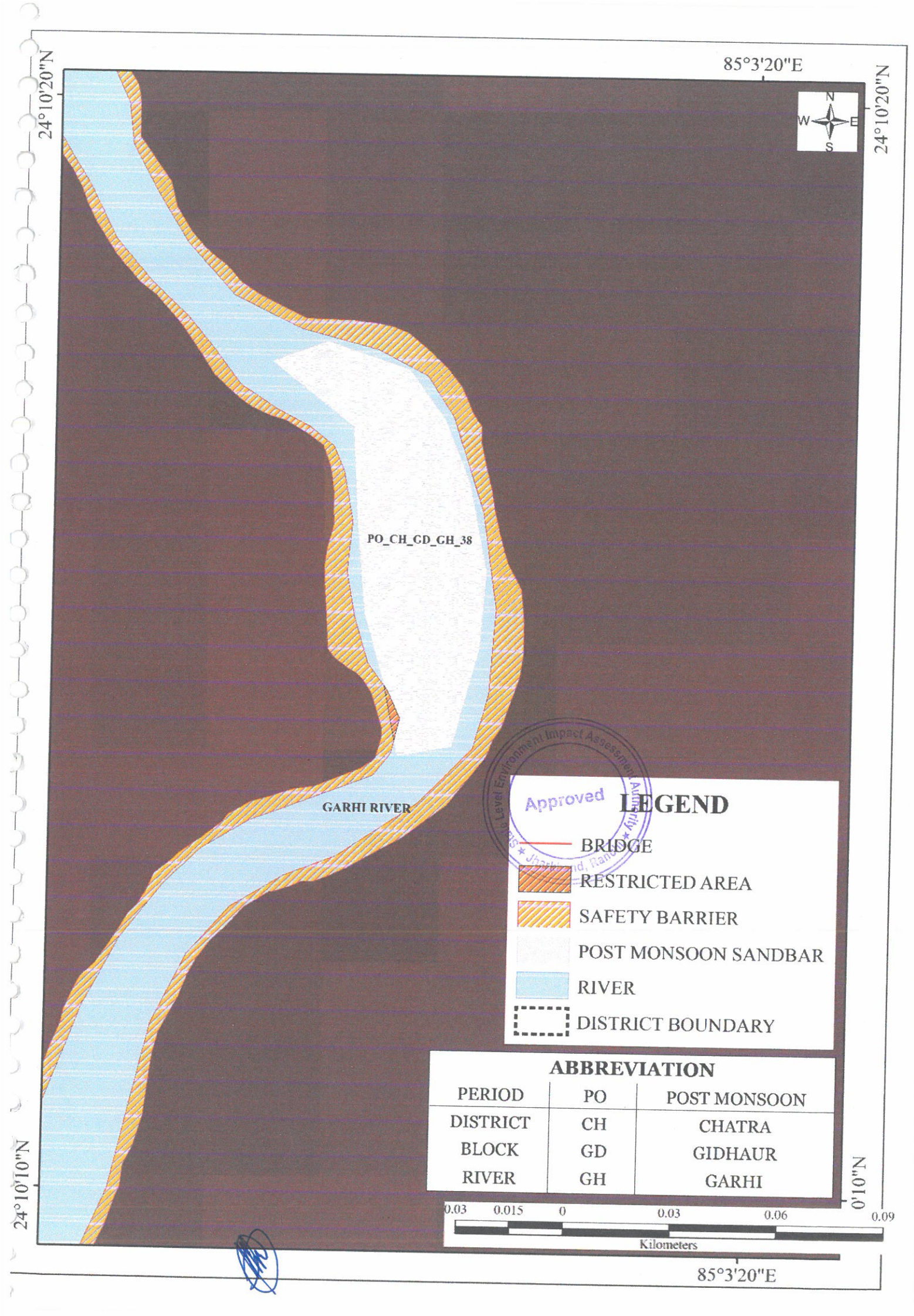
85°3'10"E
24°11'30"N
24°11'20"N
N
W
E
S
GARHI RIVER
PO_CII_GD_GII_37
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
LEGEND
BRIDGE
RESTRICTED AREA
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
ABBREVIATION
PERIOD | PO | POST MONSOON
DISTRICT | CH | CHATRA
BLOCK | GD | GIDHAUR
RIVER | GH | GARHI
0.06 0.03 0 0.06 0.12
Kilometers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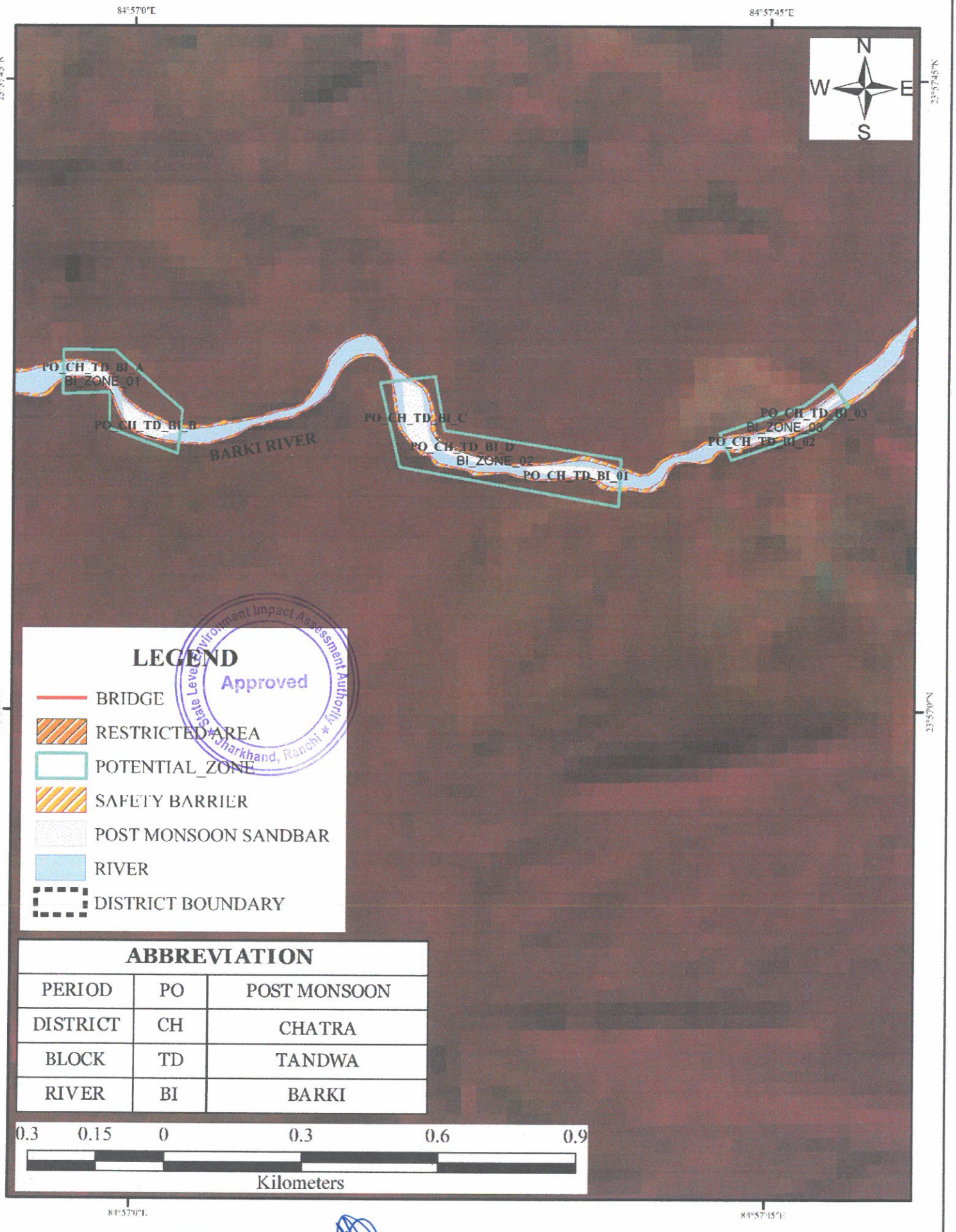
N
W
E
S
PO_CH_GD_GH_38
GARHI RIVER
Approved
LEGEND
BRIDGE
RESTRICTED AREA
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
ABBREVIATION
PERIOD | PO | POST MONSOON
DISTRICT | CH | CHATRA
BLOCK | GD | GIDHAUR
RIVER | GH | GARHI
0.03 0.015 0 0.03 0.06 0.09
Kilometers
24°10'10"N
85°3'20"E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N
W
E
S
PO_CH_TD_BI_A
BI_ZONE_01
PO_CH_TD_BI_B
BARKI RIVER
PO_CH_TD_BI_C
PO_CH_TD_BI_D
BI_ZONE_02
PO_CH_TD_BI_01
PO_CH_TD_BI_03
BI_ZONE_03
PO_CH_TD_BI_02
LEGEND
BRIDGE
RESTRICTED AREA
POTENTIAL_ZONE
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK TD TANDWA
RIVER BI BARKI
0.3 0.15 0 0.3 0.6 0.9
Kilometers
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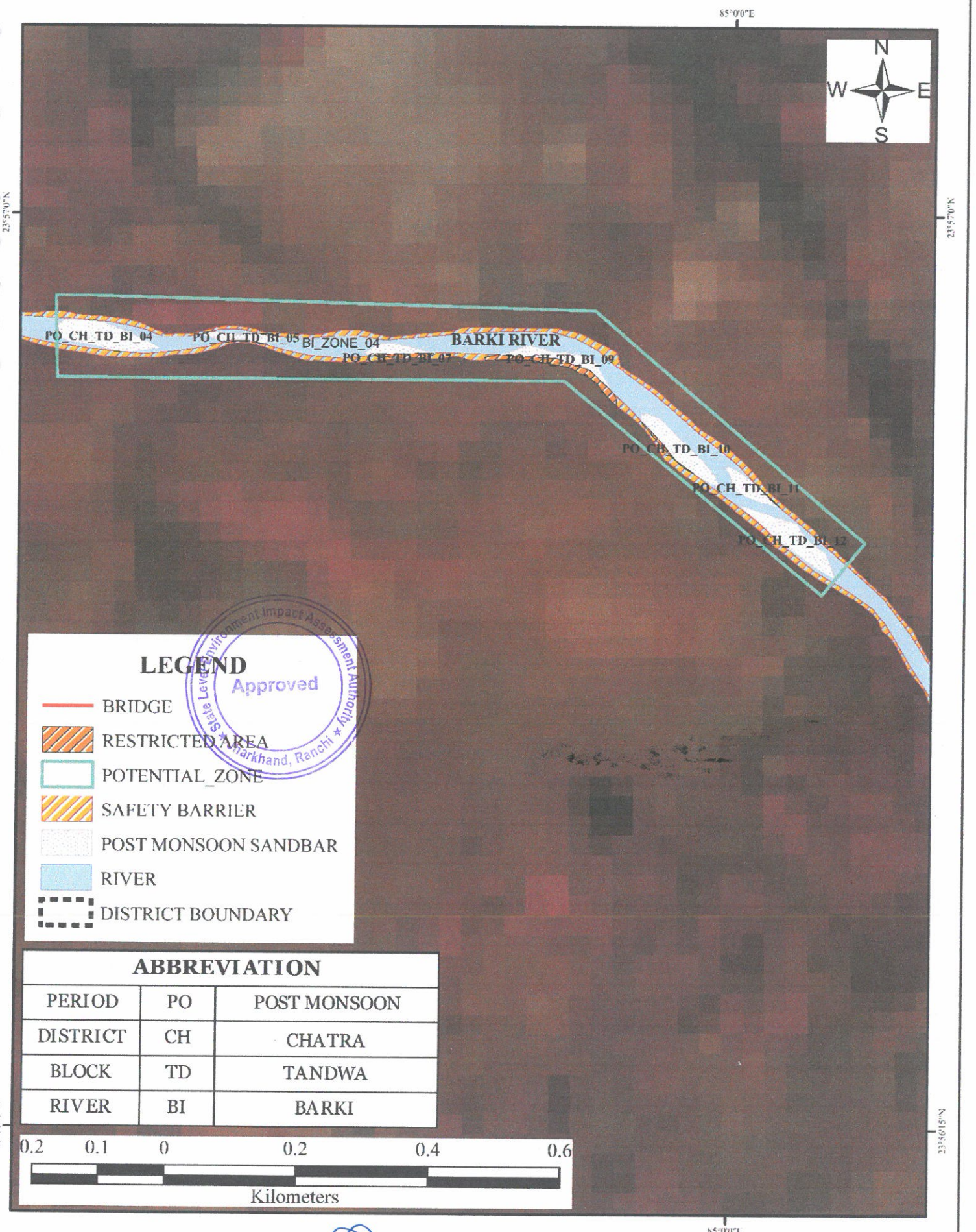
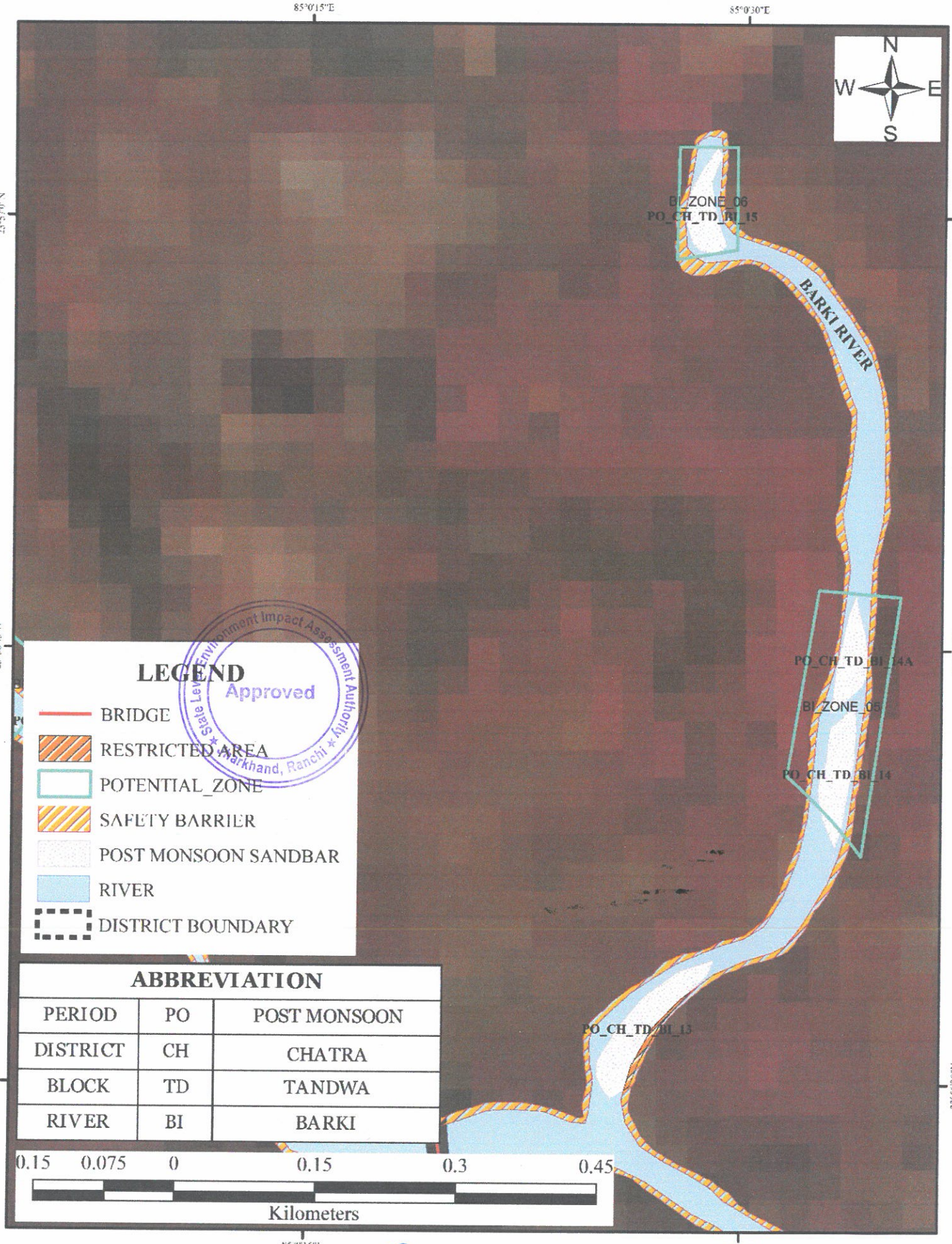
84°57'15"E



Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi

ABBREVIATION		
PERIOD	PO	POST MONSOON
DISTRICT	CH	CHATRA
BLOCK	TD	TANDWA
RIVER	BI	BARKI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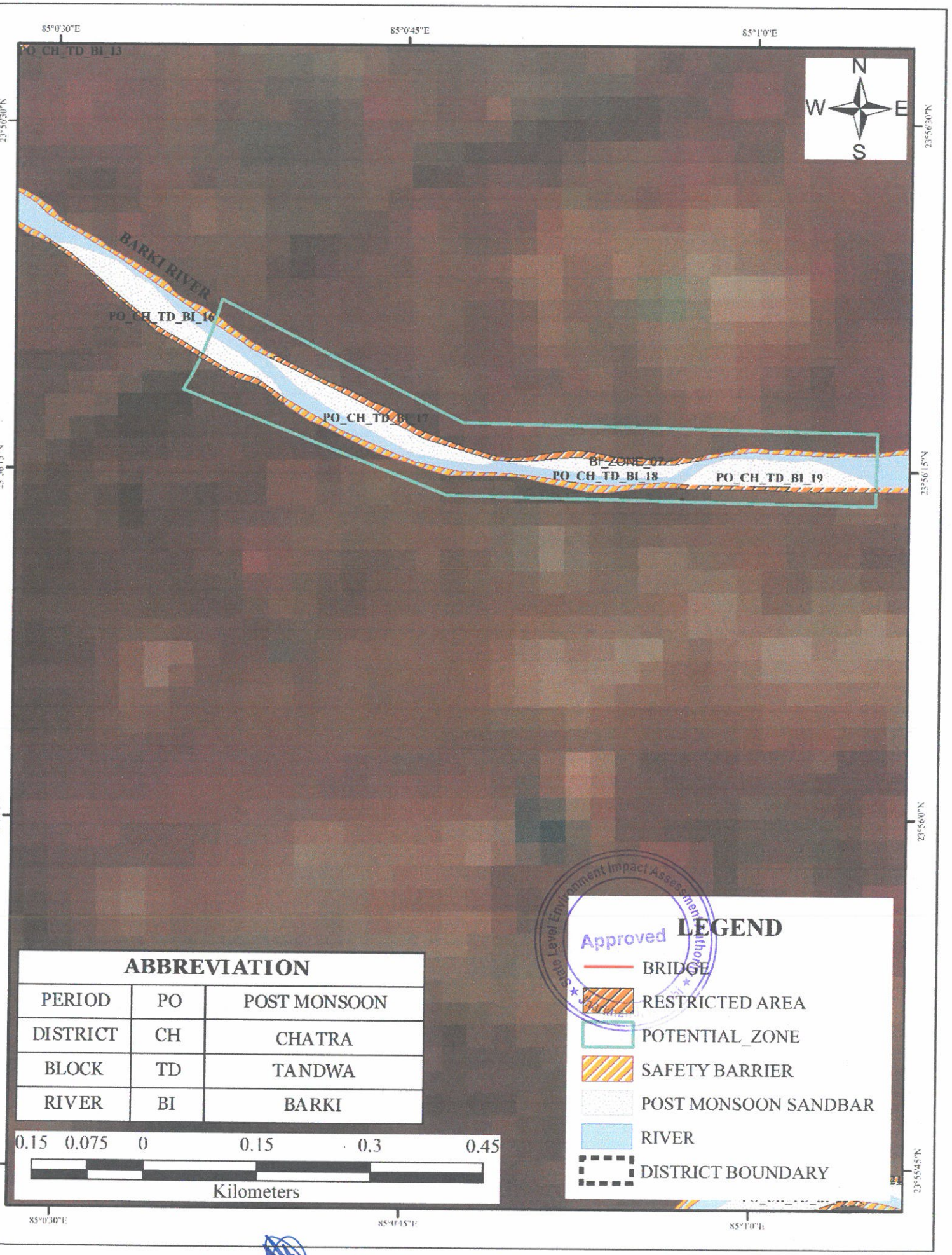
W
E
S
BI_ZONE_06
PO_CH_TD_BI_15
BARKI RIVER
PO_CH_TD_BI_14A
BI_ZONE_05
PO_CH_TD_BI_14
PO_CH_TD_BI_13
LEGEND
BRIDGE
RESTRICTED AREA
POTENTIAL_ZONE
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK TD TANDWA
RIVER BI BARKI
0.15 0.075 0 0.15 0.3 0.45
Kilometers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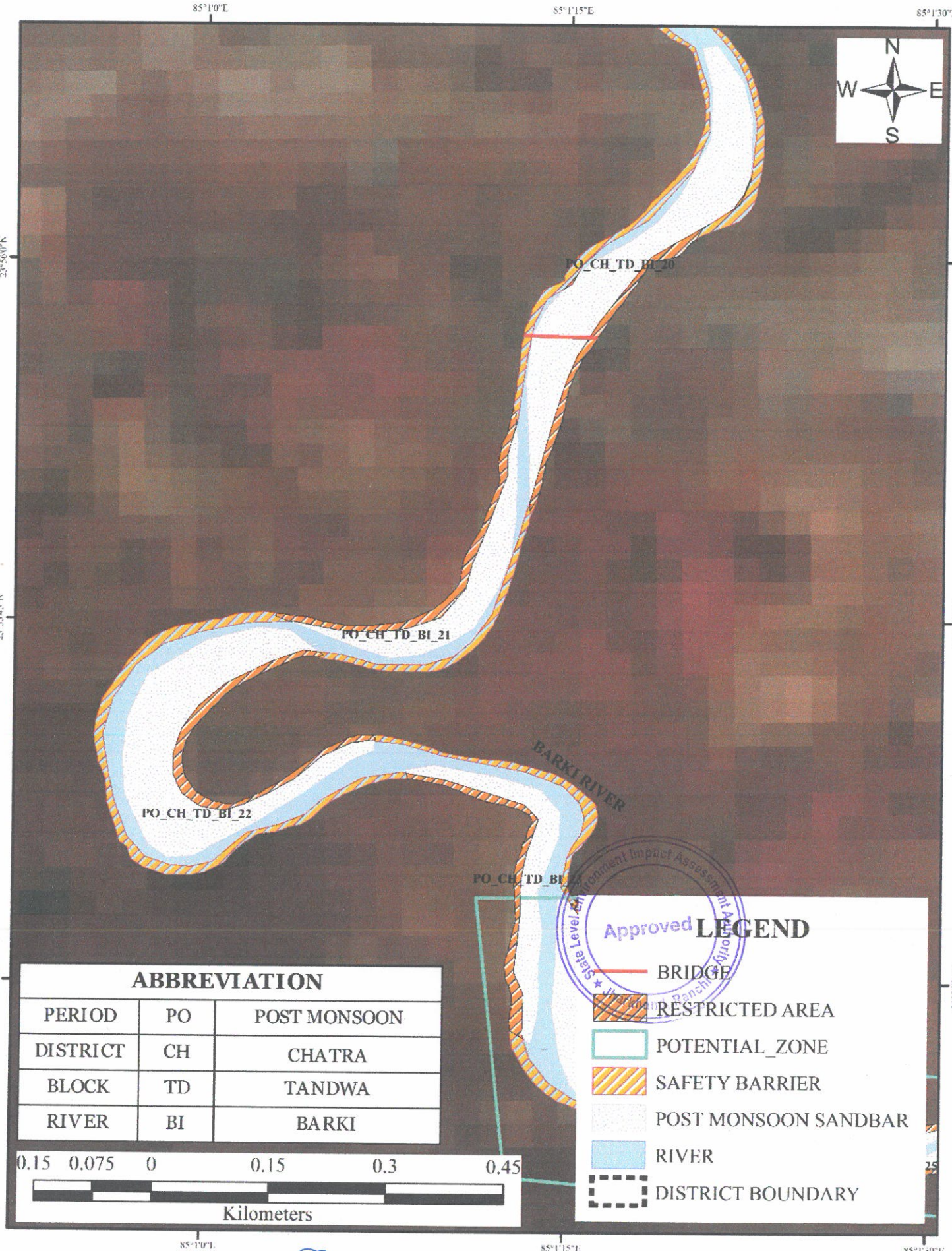
W
E
S
PO_CH_TD_BI_13
BARKI RIVER
PO_CH_TD_BI_16
PO_CH_TD_BI_17
BI_ZONE_07
PO_CH_TD_BI_18
PO_CH_TD_BI_19
ABBREVIATION
PERIOD | PO | POST MONSOON
DISTRICT | CH | CHATRA
BLOCK | TD | TANDWA
RIVER | BI | BARKI
0.15 0.075 0 0.15 0.3 0.45
Kilometers
LEGEND
BRIDGE
RESTRICTED AREA
POTENTIAL_ZONE
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority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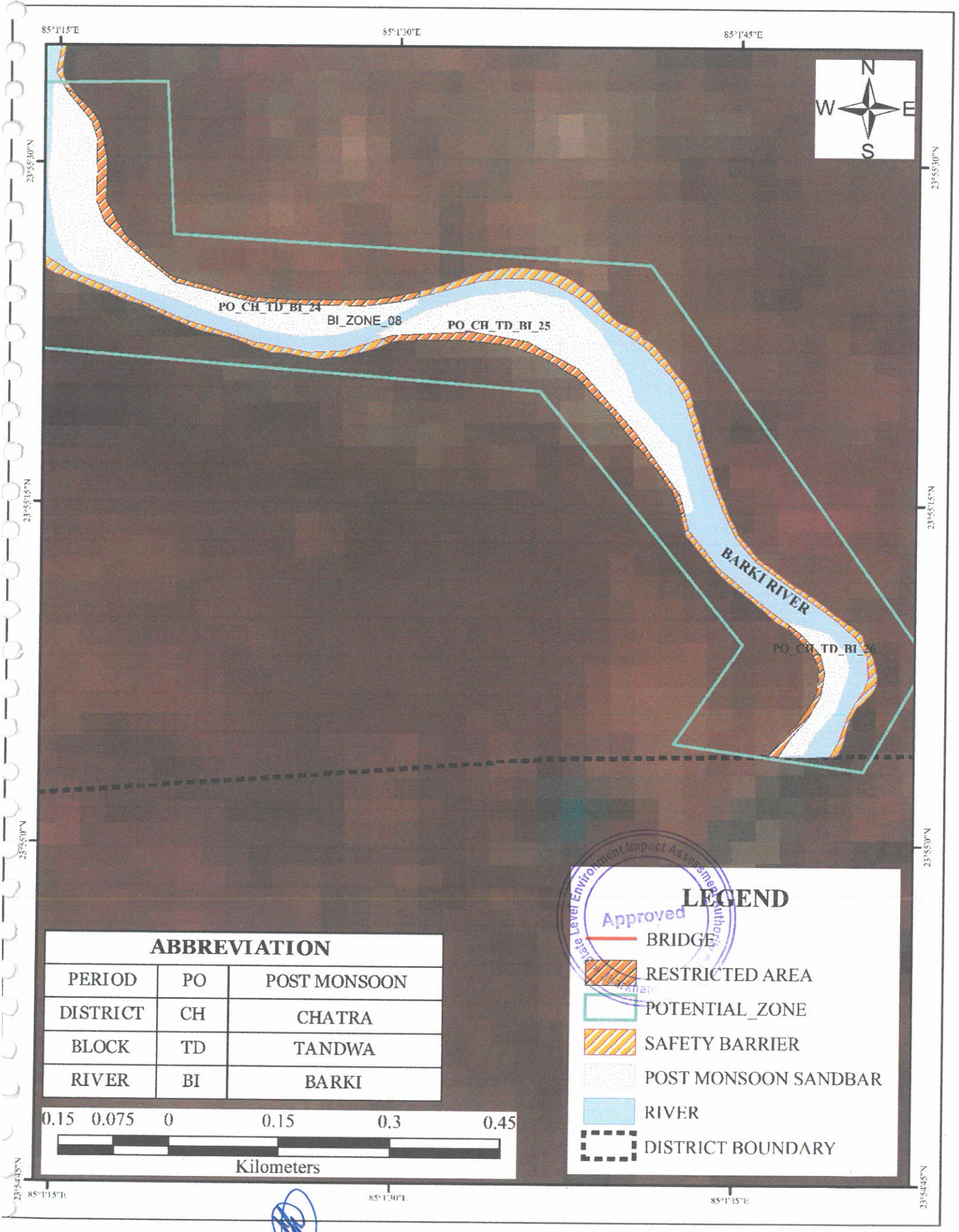
23°55'30"N
N
W
E
S
PO_CH_TD_BI_20
PO_CH_TD_BI_21
PO_CH_TD_BI_22
BARKI RIVER
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
LEGEND
BRIDGE
RESTRICTED AREA
POTENTIAL_ZONE
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
ABBREVIATION
PERIOD | PO | POST MONSOON
DISTRICT | CH | CHATRA
BLOCK | TD | TANDWA
RIVER | BI | BARKI
0.15 0.075 0 0.15 0.3 0.45
Kilometers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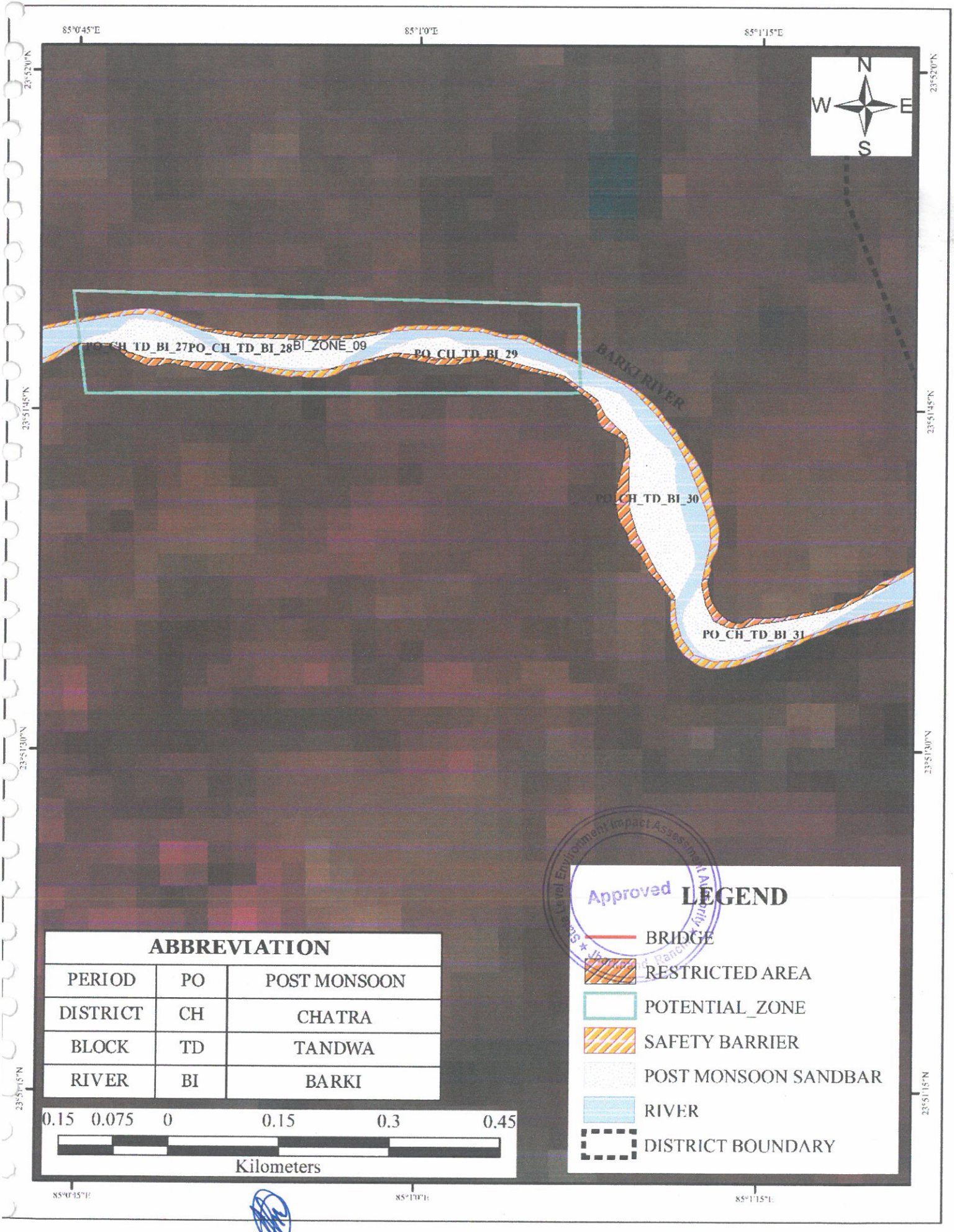
S
PO_CH_TD_BI_24
BI_ZONE_08
PO_CH_TD_BI_25
BARKI RIVER
PO_CH_TD_BI_26
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK TD TANDWA
RIVER BI BARKI
0.15 0.075 0 0.15 0.3 0.45
Kilometers
LEGEND
BRIDGE
RESTRICTED AREA
POTENTIAL_ZONE
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority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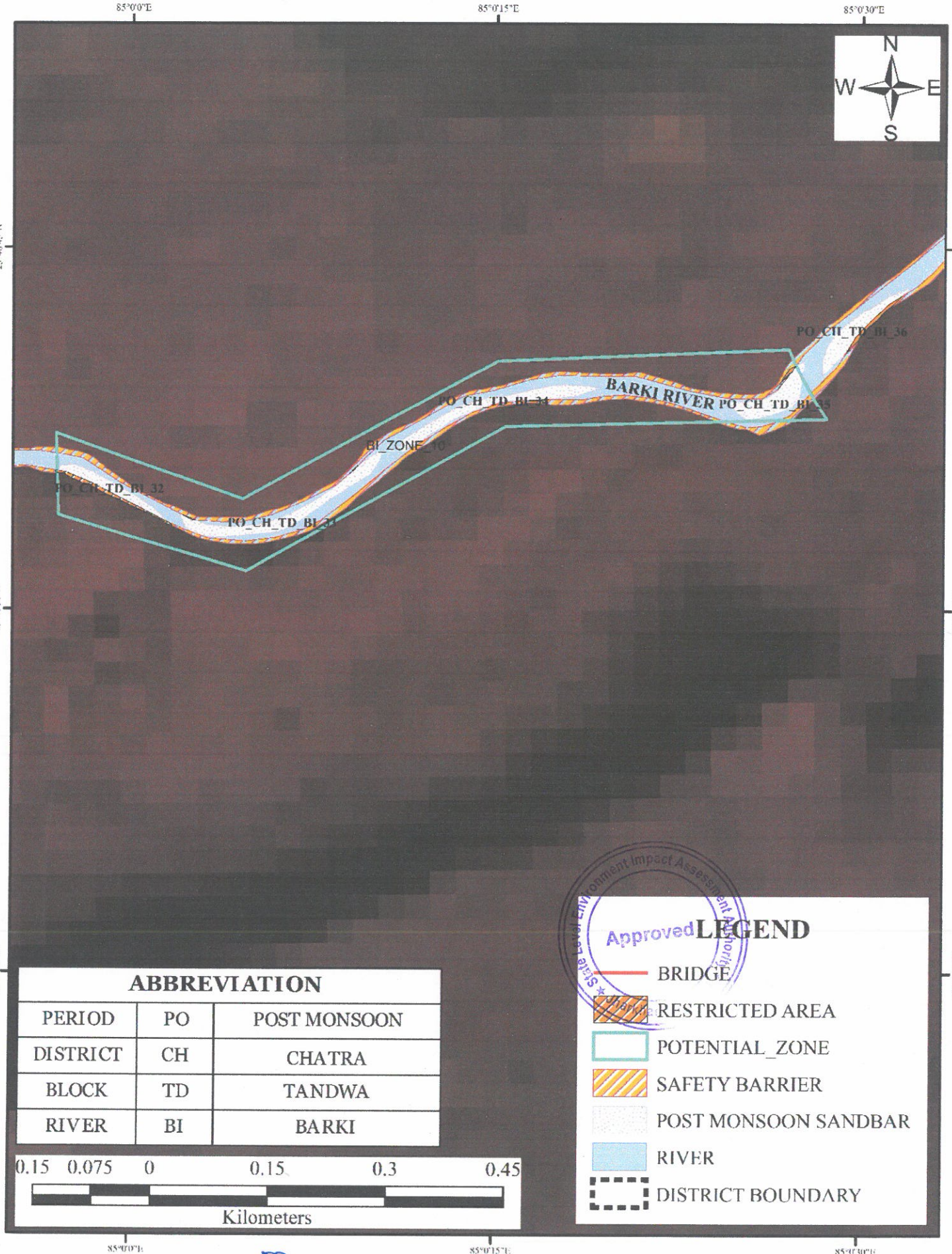
N
W
E
S
PO_CH_TD_BI_27
PO_CH_TD_BI_28
BI_ZONE_09
PO_CH_TD_BI_29
BARKI RIVER
PO_CH_TD_BI_30
PO_CH_TD_BI_31
Approved
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK TD TANDWA
RIVER BI BARKI
0.15 0.075 0 0.15 0.3 0.45
Kilometers
LEGEND
BRIDGE
RESTRICTED AREA
POTENTIAL_ZONE
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY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23°48'15"N
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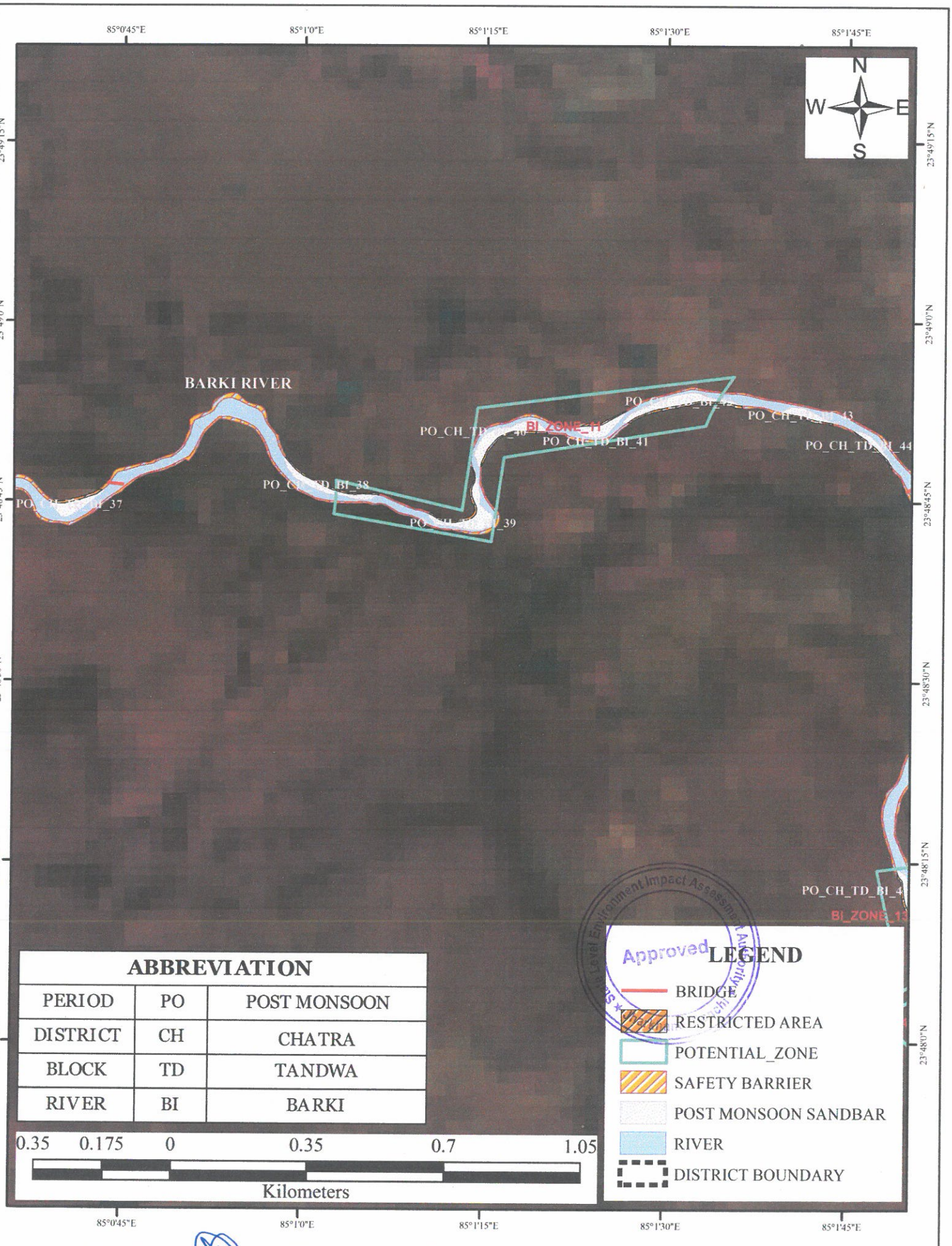
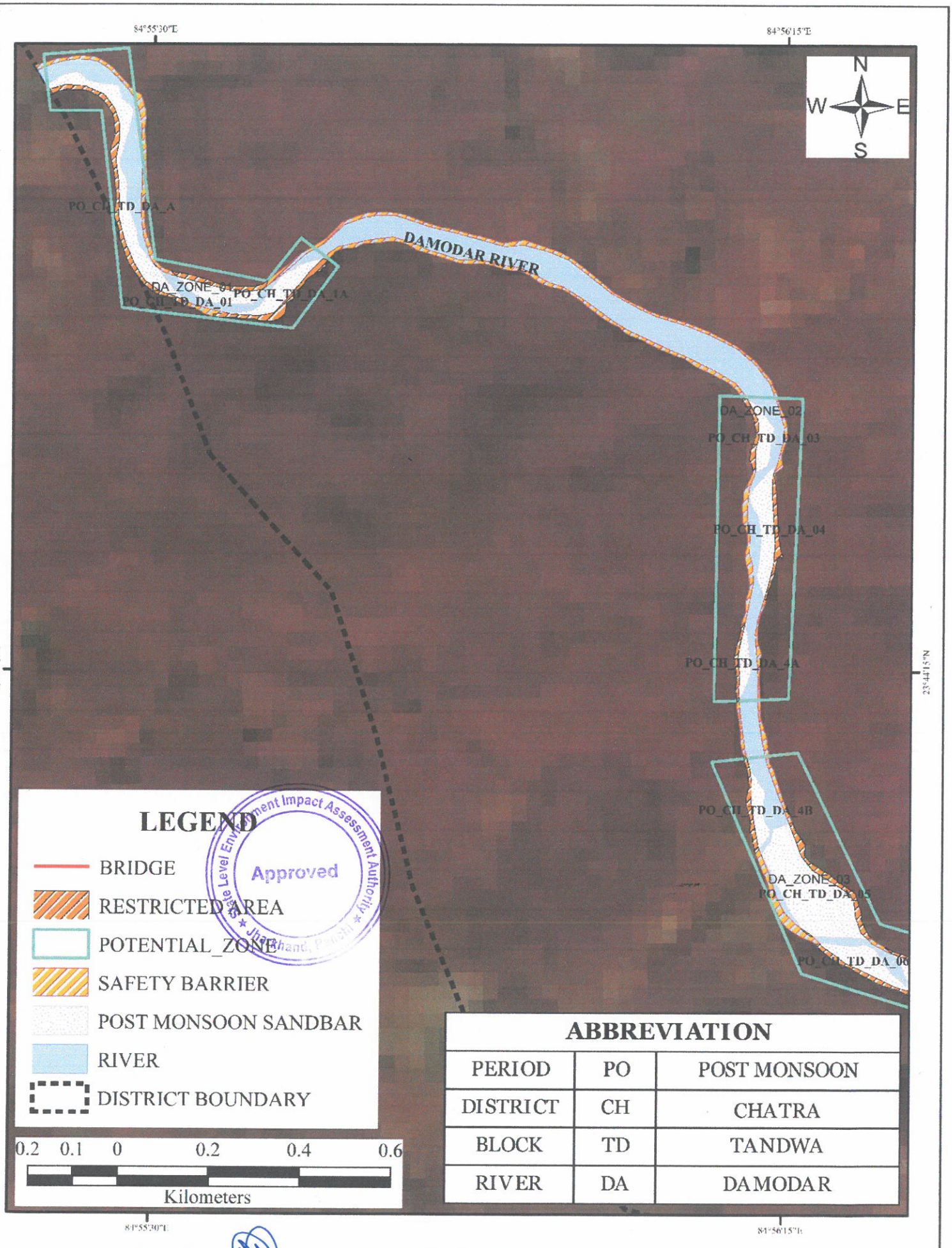
S
PO_CH_TD_BI_36
BARKI RIVER
PO_CH_TD_BI_34
PO_CH_TD_BI_35
BI_ZONE_10
PO_CH_TD_BI_32
PO_CH_TD_BI_33
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK TD TANDWA
RIVER BI BARKI
0.15 0.075 0 0.15 0.3 0.45
Kilometers
Approved
LEGEND
BRIDGE
RESTRICTED AREA
POTENTIAL_ZONE
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY



ABBREVIATION		
PERIOD	PO	POST MONSOON
DISTRICT	CH	CHATRA
BLOCK	TD	TANDWA
RIVER	BI	BARKI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23°44'15"N
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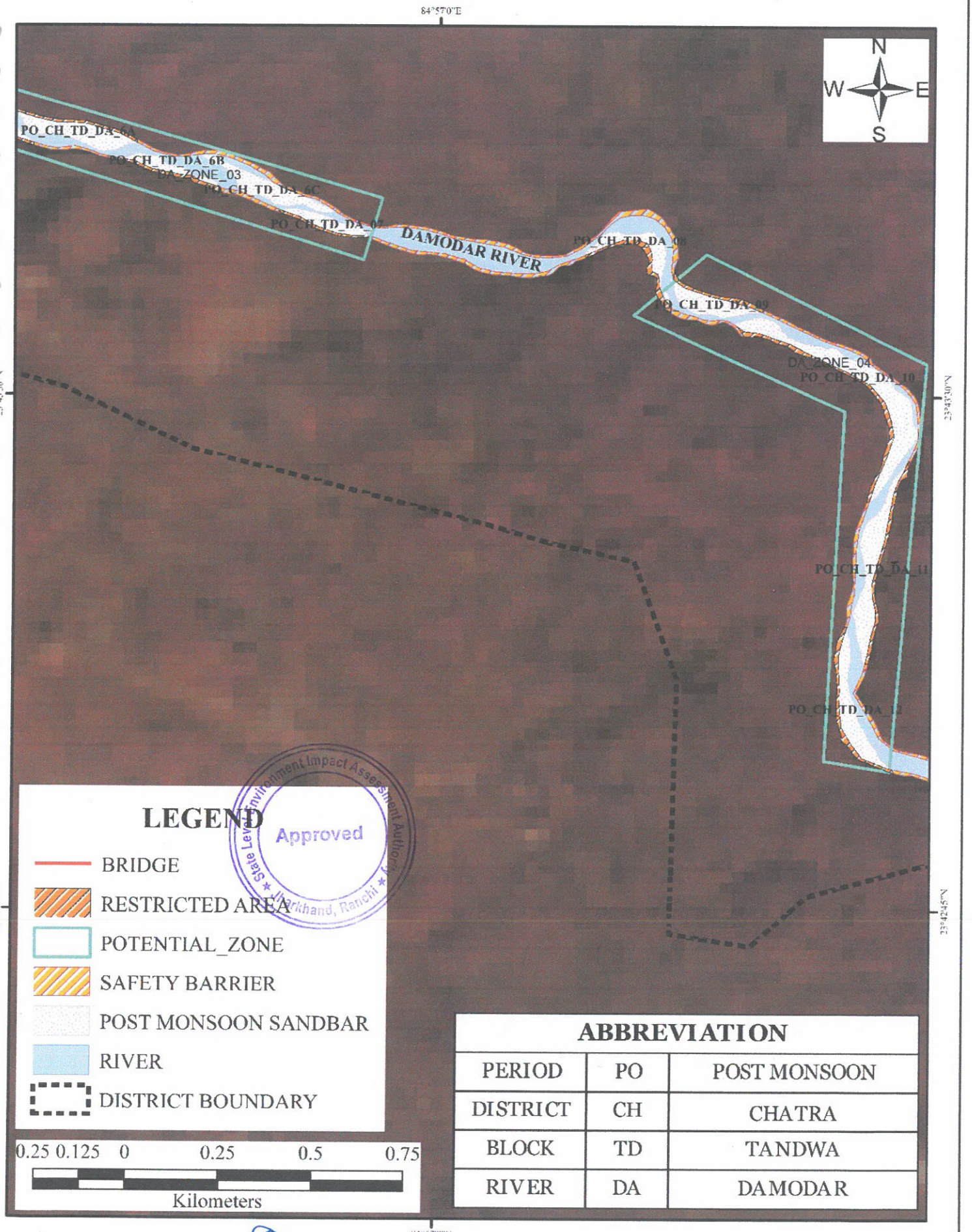
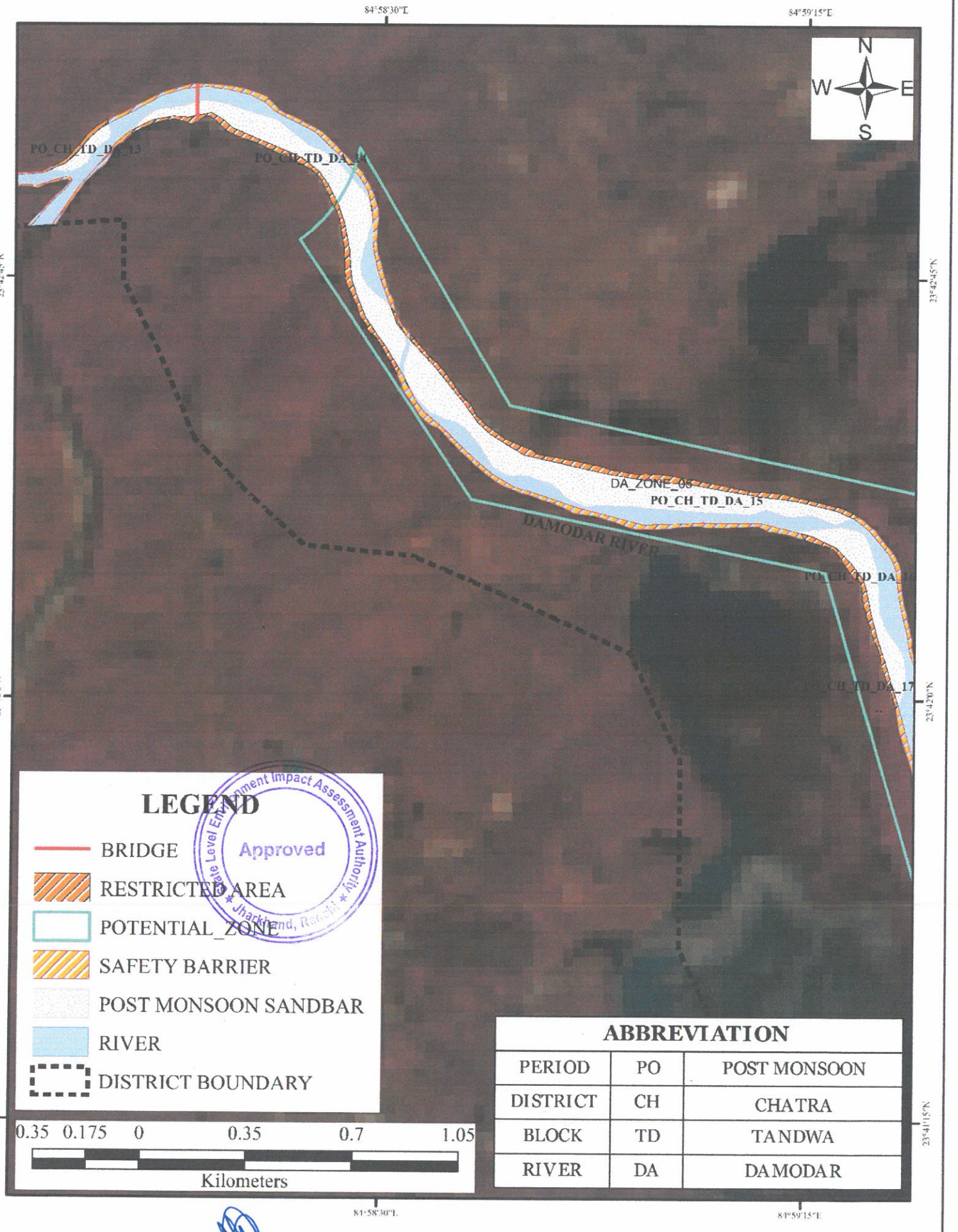
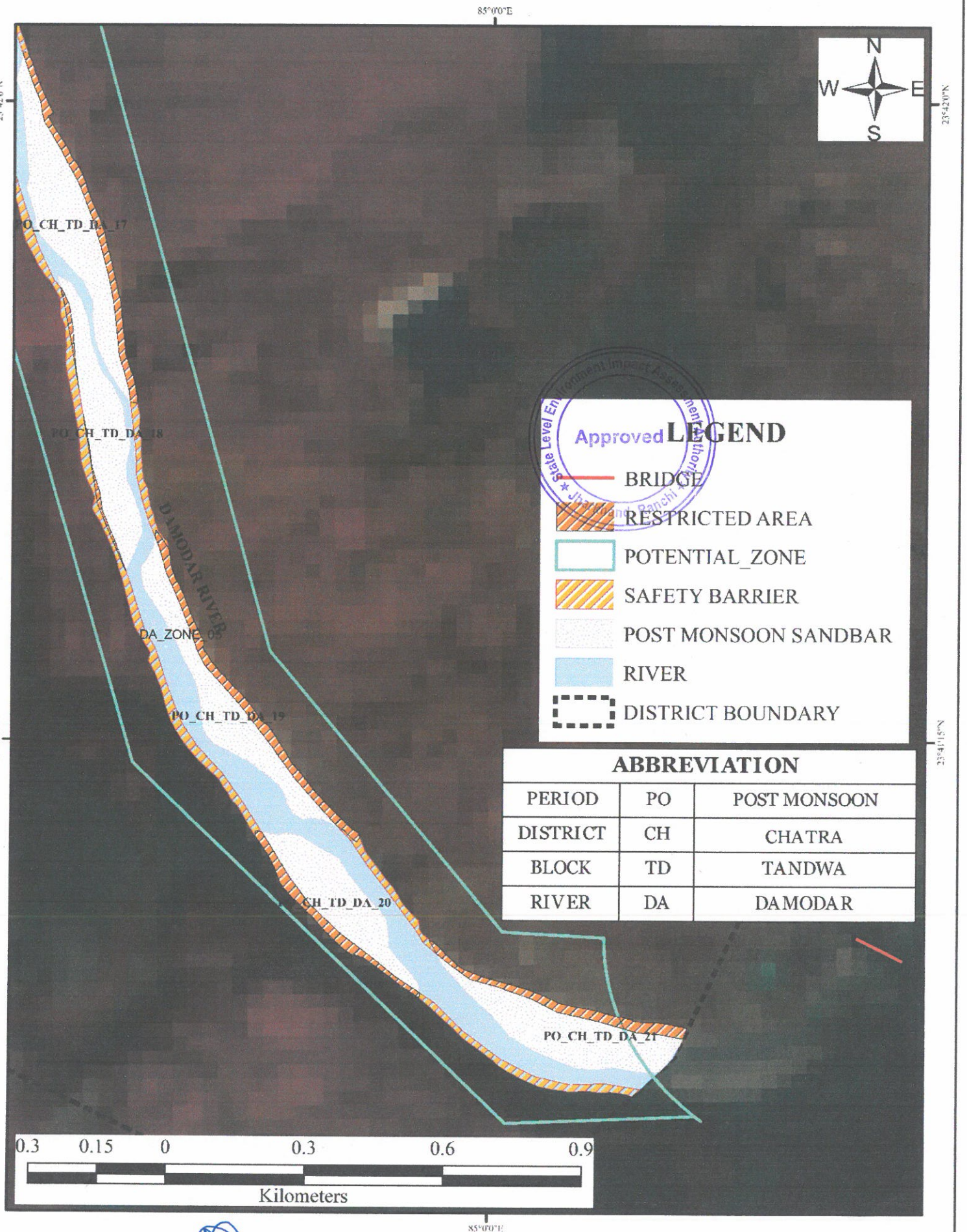
W
E
S
DAMODAR RIVER
PO_CH_TD_DA_A
DA_ZONE_01
PO_CH_TD_DA_01
PO_CH_TD_DA_1A
DA_ZONE_02
PO_CH_TD_DA_03
PO_CH_TD_DA_04
PO_CH_TD_DA_4A
PO_CH_TD_DA_4B
DA_ZONE_03
PO_CH_TD_DA_05
LEGEND
BRIDGE
RESTRICTED AREA
POTENTIAL_ZONE
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
0.2 0.1 0 0.2 0.4 0.6
Kilometers
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK TD TANDWA
RIVER DA DAMODAR


84°5'70"E
N
W
E
S
PO_CH_TD_DA_6A
PO_CH_TD_DA_6B
DA_ZONE_03
PO_CH_TD_DA_6C
PO_CH_TD_DA_07
DAMODAR RIVER
PO_CH_TD_DA_08
PO_CH_TD_DA_09
DA_ZONE_04
PO_CH_TD_DA_10
PO_CH_TD_DA_11
PO_CH_TD_DA_12
23°43'30"N
23°42'45"N
LEGEND
BRIDGE
RESTRICTED AREA
POTENTIAL_ZONE
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
0.25 0.125 0 0.25 0.5 0.75
Kilometers
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK TD TANDWA
RIVER DA DAMODAR


84°58'30"E
84°59'15"E
N
W
E
S
PO_CH_TD_DA_13
PO_CH_TD_DA_14
DA_ZONE_08
PO_CH_TD_DA_15
DAMODAR RIVER
PO_CH_TD_DA_16
CH_TD_DA_17
23°42'45"N
23°42'0"N
23°41'15"N
LEGEND
BRIDGE
RESTRICTED AREA
POTENTIAL_ZONE
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
0.35 0.175 0 0.35 0.7 1.05
Kilometers
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK TD TANDWA
RIVER DA DAMODAR


85°0'0"E
23°4'20"N
23°4'15"N
N
W
E
S
O_CH_TD_DA_17
PO_CH_TD_DA_18
DAMODAR RIVER
DA_ZONE_05
PO_CH_TD_DA_19
CH_TD_DA_20
PO_CH_TD_DA_21
Approved
LEGEND
BRIDGE
RESTRICTED AREA
POTENTIAL_ZONE
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
ABBREVIATION
PERIOD PO POST MONSOON
DISTRICT CH CHATRA
BLOCK TD TANDWA
RIVER DA DAMODAR
0.3 0.15 0 0.3 0.6 0.9
Kilometers

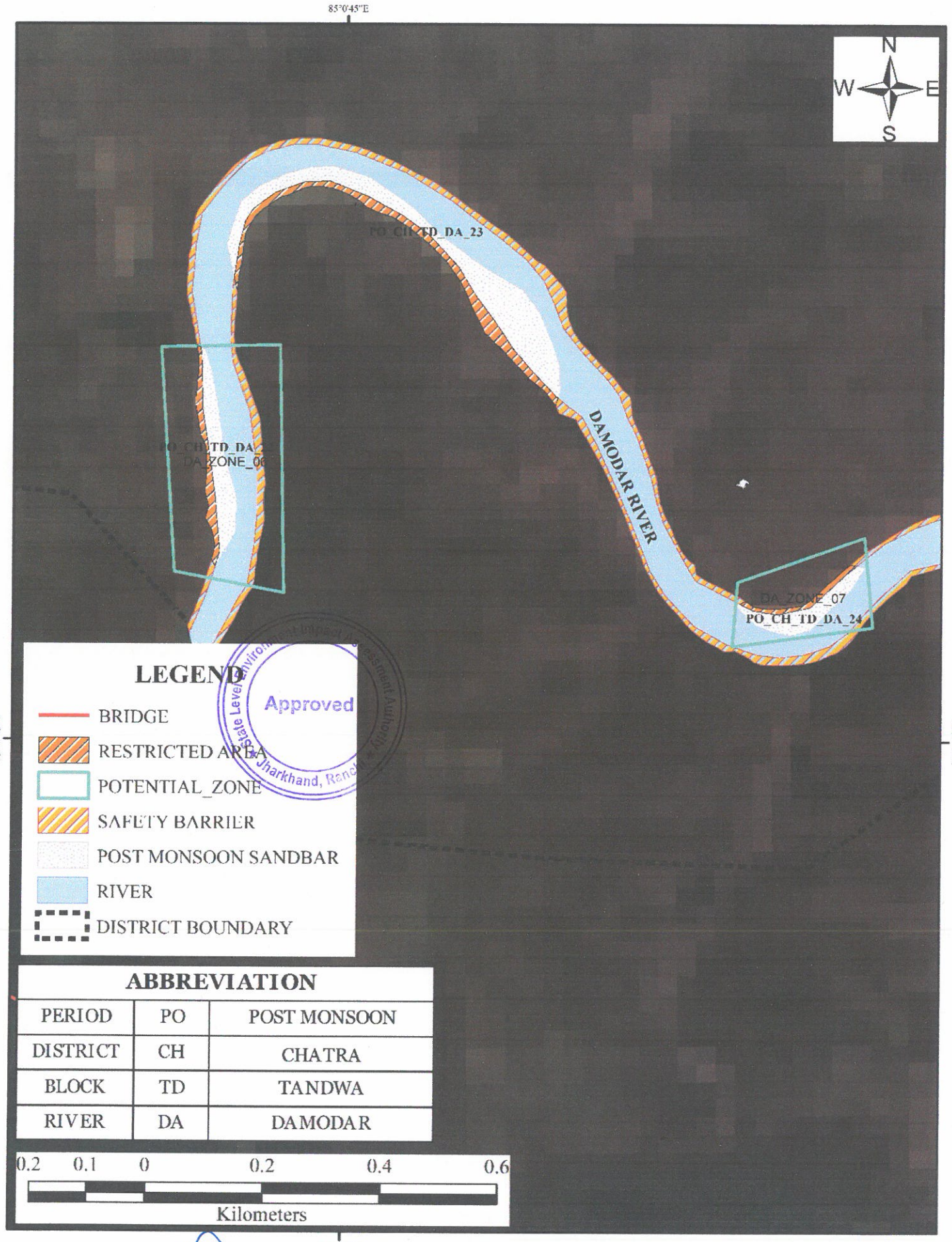

85°0'45"E
N
W
E
S
PO_CH_TD_DA_23
DAMODAR RIVER
PO_CH_TD_DA_24
DA_ZONE_07
23°4'15"N
LEGEND
BRIDGE
RESTRICTED AREA
POTENTIAL_ZONE
SAFETY BARRIER
POST MONSOON SANDBAR
RIVER
DISTRICT BOUNDARY
Approved
Jharkhand, Ranchi
ABBREVIATION
PERIOD | PO | POST MONSOON
DISTRICT | CH | CHATRA
BLOCK | TD | TANDWA
RIVER | DA | DAMODAR
0.2 0.1 0 0.2 0.4 0.6
Kilometers
85°0'15"E

Plate C

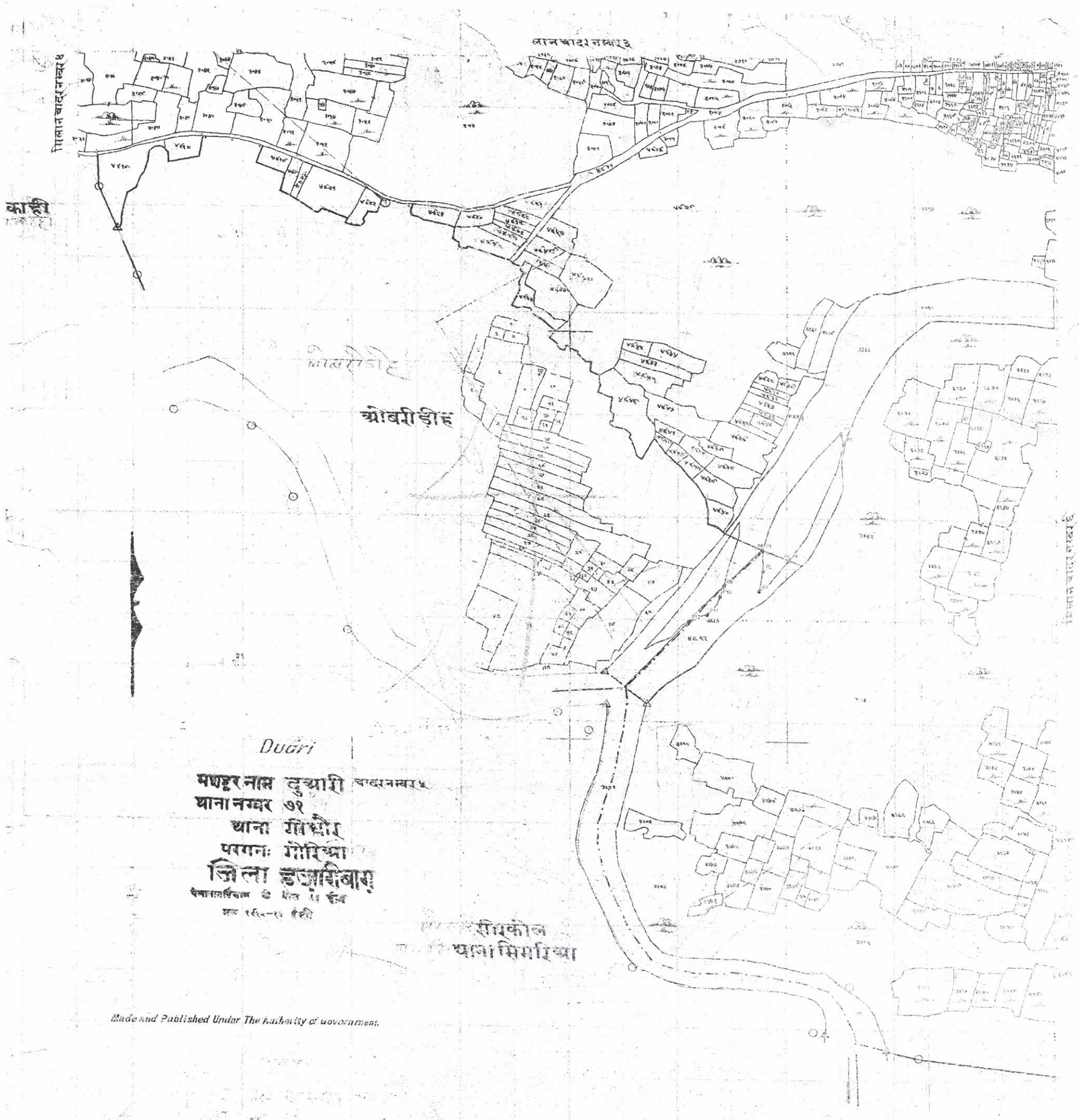
{Cadastral Map of Damodar, Garhi, Lilajan(Falgu), Mohana, Morhar & Baki River}

State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi

Damodar River



Proposed Ghat of PO_CH_PG_MA_46,47, Block -Gidhor, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA IN ACRE	REMARKS
GIDHOR	Duari	71	5	4615	RIVER	0.3428	
GIDHOR	Duari	71	5	2216	RIVER	21.5800	
				TOTAL AREA		21.9228	

Proposed Area in Ha of 46- 1.64

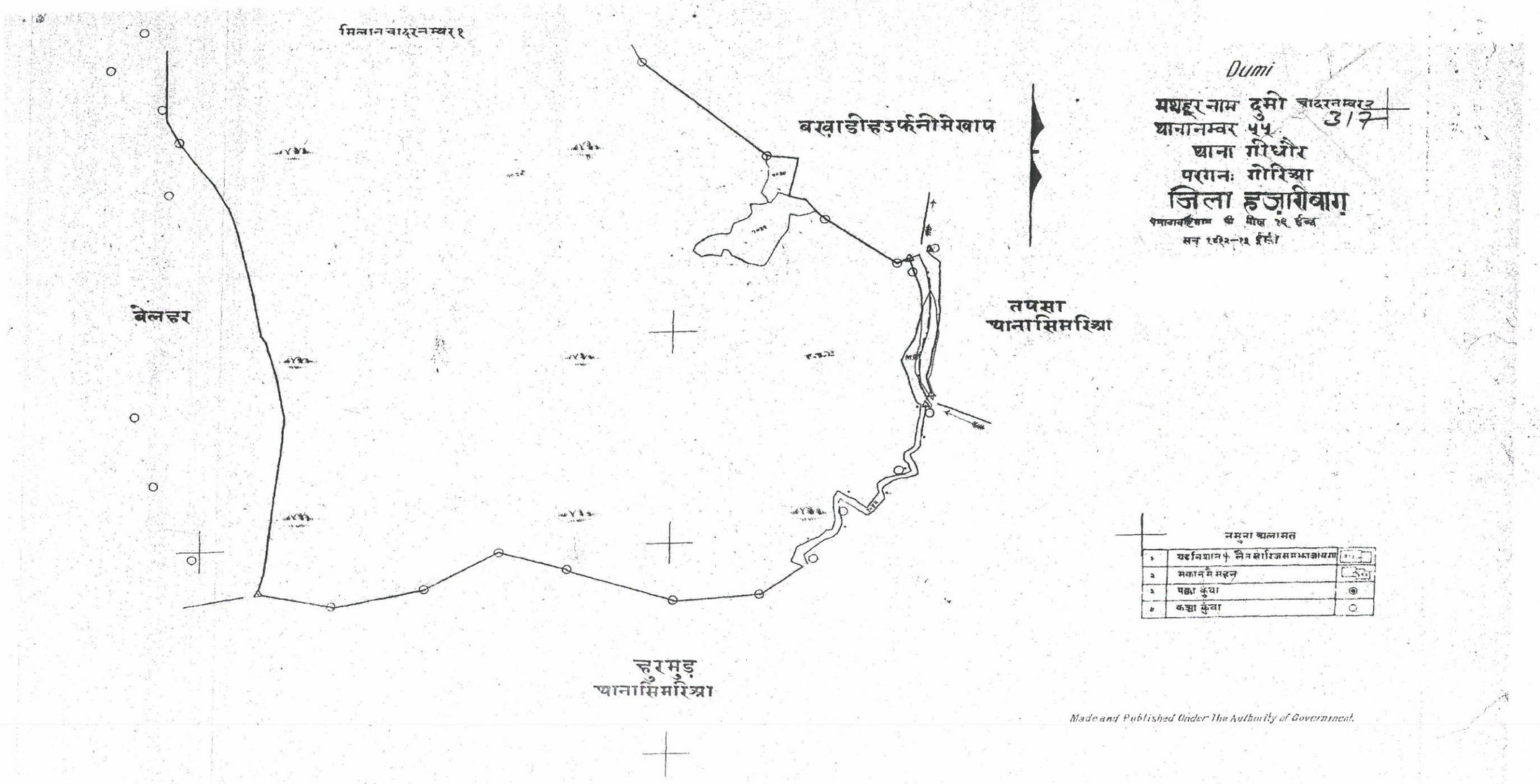
Proposed Area in Ha of 47 - 0.84

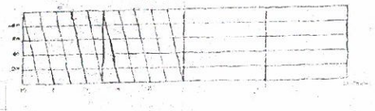
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	3.07875.5012	26[illegible]	[illegible]	85°[illegible]E
P2	3.10713.49.9	26[illegible]	[illegible]	85°[illegible]E
P3	310666.257	26[illegible]	[illegible]	85°[illegible]E
P4	3.0.21..9.02	26[illegible]	[illegible]	[illegible]
P5	310421.952	2.663310.945	[illegible]	85°[illegible]E
P6	310373..032	2663241.584	[illegible]	[illegible]
P7	3.0423.65.6	2663573.8.9	[illegible]	[illegible]
P8	3.0525.4179	2663[illegible].159	[illegible]	85°[illegible]E
P9	31[illegible].6470	2.66[illegible].91	[illegible]	[illegible]
P10	3.07.35.9761	2.66[illegible].8.5	[illegible]	85°[illegible]E
P11	3.0[illegible].3840	2.66[illegible].709	[illegible]	85°[illegible]E
P12	3.0[illegible].1816	2.66[illegible].5.2	[illegible]	85°[illegible]E

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PG_MA_60, Block - Pathalgama, District - Chatra, JHARKHAND





PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	303232.0308	2666416.769	24°5' 52.237" N	85°3' 51.131" E
P2	303221.114	2666390.362	24°5' 51.373" N	85°3' 50.757" E
P3	303207.1268	2666279.567	24°5' 47.767" N	85°3' 50.316" E
P4	303216.6635	2666248.62	24°5' 46.765" N	85°3' 50.669" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
PATHALGAMA	DUMI	55	2	1033	RIVER	1.3226	
				TOTAL AREA		1.3226	

Proposed Area in Ha of 60- 0.44

Superintendent of Survey

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PG_MA_56,57, Block - Pathalgama, District - Chatra, JHARKHAND

Dumi

मशहूर नाम दुमी चाहरनम्बर१
थाना नम्बर ५५
थाना गोधौर
परगना गोरिआ
जिला हजारीबाग़

अनगड़ाखुर्द
बनवारा
अनगड़ाकलां
कूबा
बेलहर
बखाडीहउर्फनीमेखाद
पंचबहनी मंदिर
मिलानचाहरनम्बर२

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Superintendent of Survey

नम्बर	नामहूर मशहूर
६७७	देवी मन्डा
६२६	आखाड़ीडाँगरा

नमूना अलामत

१	यदनिशान + सैन मास्जिसमभाखापग	
२	मकानमैसहन	
३	पक्का कुंवा	◉
४	कच्चा कुंवा	○

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
PATHALGAMA	DUMI	55	1	1025	RIVER	1.0857	
PATHALGAMA	DUMI	55	1	1026	RIVER	15.1493	
					TOTAL AREA	16.235	

Proposed Area in Ha of 56- 0.36
Proposed Area in Ha of 57- 0.31

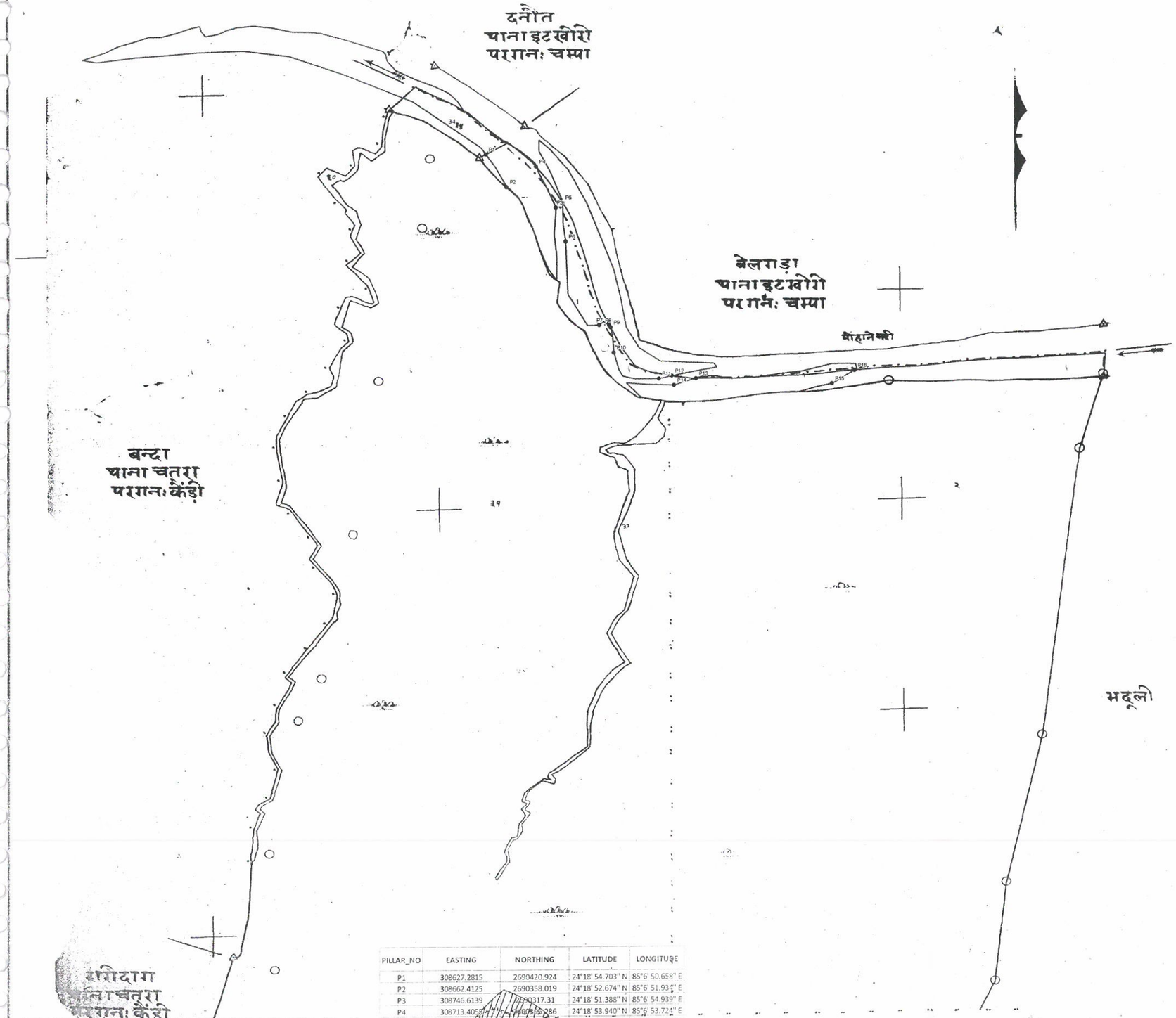
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	302190.8276	2667103.091	24°6' 14.091" N	85°3' 13.934" E
P2	302239.284	2667118.766	24°6' 14.603" N	85°3' 15.642" E
P3	302264.5894	2657180.772	24°6' 16.629" N	85°3' 16.508" E
P4	302237.9419	2667192.465	24°6' 16.997" N	85°3' 15.559" E
P5	302252.7801	2667240.117	24°6' 18.553" N	85°3' 16.060" E
P6	302233.9364	2667257.314	24°6' 19.108" N	85°3' 15.385" E
P7	302330.8386	2667283.913	24°6' 20.011" N	85°3' 18.802" E
P8	302332.4049	2667255.544	24°6' 19.090" N	85°3' 18.872" E
P9	302330.8386	2667283.913	24°6' 20.011" N	85°3' 18.802" E
P10	302356.1028	2667278.718	24°6' 19.854" N	85°3' 19.699" E
P11	302350.8247	2667260.683	24°6' 19.269" N	85°3' 19.840" E
P12	302349.4161	2667257.566	24°6' 19.163" N	85°3' 19.473" E

Approved
State Level Environment Impact Assessment Authority * Jharkhand, Ranchi *

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_IK_MA_03_04_05,06,07, Block - Itkhori, District - Chatra, JHARKHAND



Goriatanr

मशहूर नाम गोरिआटांड़ चादरनम्बर१
थाना नम्बर २
थाना गोधौर
परगना चै
ज़िला हज़ारीबाग़
पैमानाहिसाब फी मील १६ ईंच
सन १९१६ ३३ईस्वी

नमूना संकेताक्षर

१	यहनिशान ÷ लैन कोडिनेट्स	३०.३
२	मकान में सहन	
३	पक्का कुंवा	◉
४	कच्चा कुंवा	○

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Scale 16 Inches / Mile.

Conversion Scale
0 100 200 300 400 Metres
0 5 10 15 20 Centimetres
1 C.M = 39.60 metres

बिहार सर्वेक्षण कार्यालय, पटना-७ में मुद्रित।

Superintendent of Survey

State Level Environment Impact Assessment Authority * Jharkhand, Ranchi *
Approved

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
ITKHORI	GORIATANR	2	1	1	RIVER	15.2116	
ITKHORI	GORIATANR	2	1	34	RIVER	2.5166	
				TOTAL AREA		17.7282	

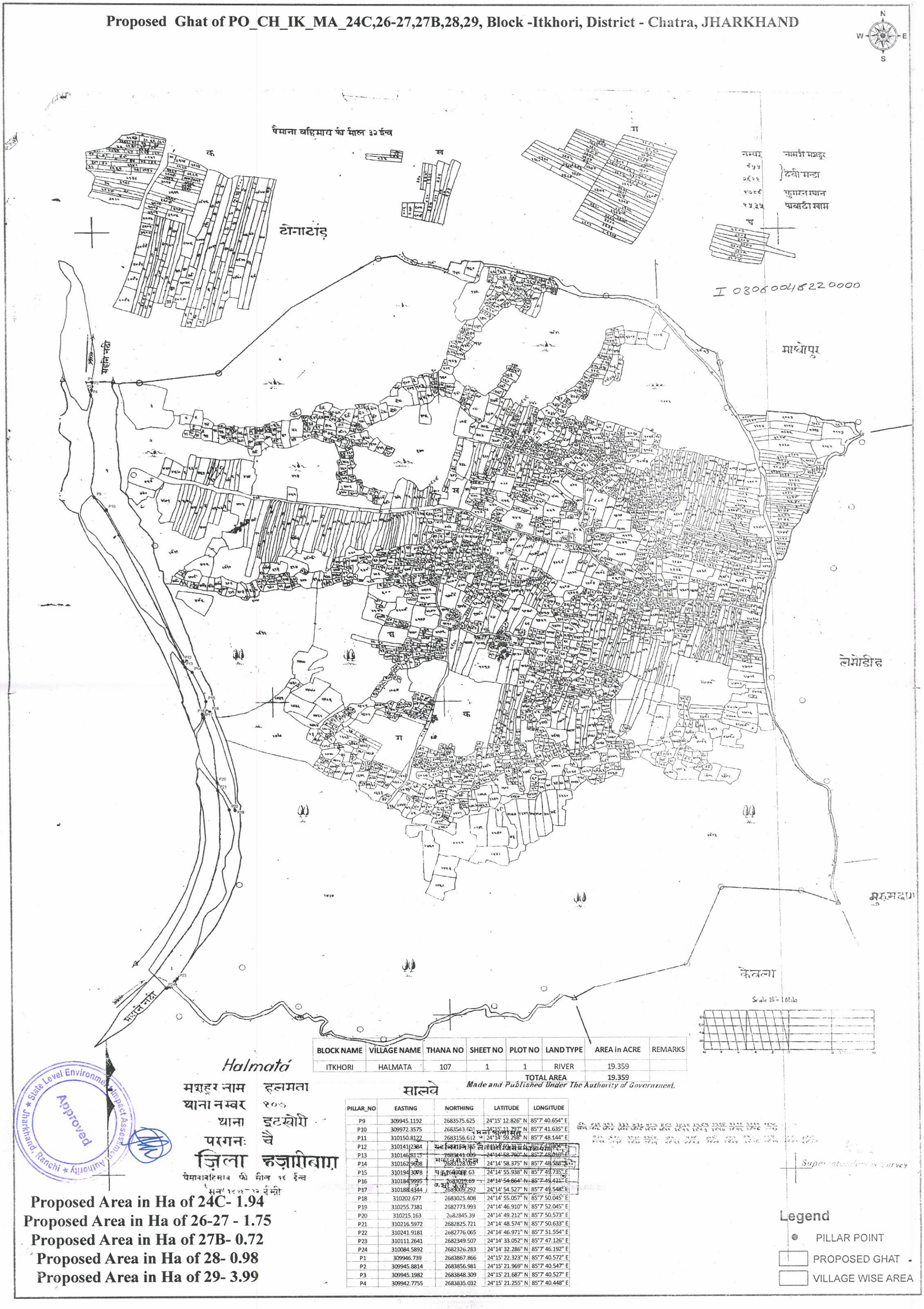
Proposed Area in Ha of 03-04-05- 4.54
Proposed Area in Ha of 06- 2.76
Proposed Area in Ha of 07- 1.36

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	308627.2815	2690420.924	24°18' 54.703" N	85°6' 50.658" E
P2	308662.4125	2690358.019	24°18' 52.674" N	85°6' 51.934" E
P3	308746.6139	2690317.31	24°18' 51.388" N	85°6' 54.939" E
P4	308713.4058	2690356.286	24°18' 53.940" N	85°6' 53.724" E
P5	308758.1032	2690326.624	24°18' 51.696" N	85°6' 55.342" E
P6	308762.8493	2690251.908	24°18' 49.270" N	85°6' 55.546" E
P7	308819.7993	2690090.469	24°18' 44.049" N	85°6' 57.643" E
P8	308837.3608	2690089.445	24°18' 44.023" N	85°6' 58.267" E
P9	308839.4096	2690085.428	24°18' 43.893" N	85°6' 58.341" E
P10	308844.5396	2690036.865	24°18' 42.317" N	85°6' 58.546" E
P11	308923.4874	2689985.481	24°18' 40.682" N	85°7' 1.371" E
P12	308946.1205	2689990.405	24°18' 40.852" N	85°7' 2.171" E
P13	308988.2626	2689984.545	24°18' 40.680" N	85°7' 3.668" E
P14	308950.0277	2689972.367	24°18' 40.268" N	85°7' 2.318" E
P15	309224.3688	2689970.774	24°18' 40.337" N	85°7' 12.047" E
P16	309264.6295	2689995.776	24°18' 41.167" N	85°7' 13.462" E

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_IK_MA_24C,26-27,27B,28,29, Block -Itkhori, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
ITKHORI	HALMATA	107	1	1	RIVER	19.359	
					TOTAL AREA	19.359	

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PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P9	309945.1192	2683575.625	24°15' 12.826" N	85°7' 40.654" E
P10	309972.3575	2683543.601	24°15' 11.787" N	85°7' 41.635" E
P11	310150.8122	2683156.612	24°14' 59.298" N	85°7' 48.144" E
P12	310141[illegible]	[illegible]	[illegible]	[illegible]
P13	310146.8115	2683141.009	24°14' 58.790" N	85°7' 48.010" E
P14	310162.9608	2683128.025	24°14' 58.375" N	85°7' 48.588" E
P15	310194.3078	2683062.63	24°14' 55.938" N	85°7' 49.735" E
P16	310184.9995	2683019.69	24°14' 54.864" N	85°7' 49.421" E
P17	310188.4344	2683009.292	24°14' 54.527" N	85°7' 49.548" E
P18	310202.677	2683025.408	24°14' 55.057" N	85°7' 50.045" E
P19	310255.7381	2682773.993	24°14' 46.910" N	85°7' 52.045" E
P20	310215.163	2682845.39	24°14' 49.212" N	85°7' 50.573" E
P21	310216.5972	2682825.721	24°14' 48.574" N	85°7' 50.633" E
P22	310241.9181	2682776.065	24°14' 46.971" N	85°7' 51.554" E
P23	310111.2641	2682349.507	24°14' 33.052" N	85°7' 47.126" E
P24	310084.5892	2682326.283	24°14' 32.286" N	85°7' 46.192" E
P1	309946.739	2683867.866	24°15' 22.323" N	85°7' 40.572" E
P2	309945.8814	2683856.981	24°15' 21.969" N	85°7' 40.547" E
P3	309945.1982	2683848.309	24°15' 21.687" N	85°7' 40.527" E
P4	309942.7755	2683835.032	24°15' 21.255" N	85°7' 40.448" E

Proposed Area in Ha of 24C- 1.94
Proposed Area in Ha of 26-27 - 1.75
Proposed Area in Ha of 27B- 0.72
Proposed Area in Ha of 28- 0.98
Proposed Area in Ha of 29- 3.99

Proposed Ghat of PO_CH_IK_MA_40, PO_CH_IK_MA_33,34,35,36,37,38, Block - Gidhor, District - Chatra, JHARKHAND

Index to Sheets

Humadhaki

मशहूर नाम हूमाढाकी चालूनम्बर१
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थाना गिधौर
परगनः कैड़ी
जिला हज़ारीबाग़
पैमानावर्गिलाल @ मील १८ इंच
सन १९६२-६३ रांची

सालवे

सालवे
थाना इटखोरी
परगनः चम्पा

चकोवार

सरहेता

राजबार
थाना इटखोरी
परगनः चम्पा

मिलानचालूनम्बर२

नमूना चालामत

१	यहनिशान	
२	मकानमैमहल	
३	पक्का कुंवा	●
४	कच्चा कुंवा	○

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Scale 16 Inches = 1 Mile

Proposed Area in Ha of 40- 4.40
Proposed Area in Ha of 33- 0.99
Proposed Area in Ha of 35- 0.40
Proposed Area in Ha of 36- 1.86
Proposed Area in Ha of 37- 0.46
Proposed Area in Ha of 38- 0.66

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	310740.35	2648681.109	24°13'48.460"N	85°07'41.218"E
P2	310814.1463	2648669.856	24°13'48.137"N	85°07'43.701"E
P3	310698.9373	2648516.284	24°13'43.157"N	85°07'39.857"E
P4	310810.0955	2648472.8706	24°13'41.746"N	85°07'43.486"E
P5	310710.0464	2648361.695	24°13'38.127"N	85°07'40.178"E
P6	310810.7163	2648360.7528	24°13'38.097"N	85°07'43.481"E
P7	310738.334	2648299.345	24°13'36.106"N	85°07'41.093"E
P8	310732.1464	2648268.275	24°13'35.092"N	85°07'40.892"E
P9	310739.7496	2648261.1771	24°13'34.858"N	85°07'41.130"E
P10	310767.0552	2648250.345	24°13'34.502"N	85°07'42.044"E
P11	311306.6396	2648139.351	24°13'30.853"N	85°07'59.702"E
P12	311017.7155	2648027.665	24°13'27.186"N	85°07'50.299"E
P1	311017.7155	2648027.665	24°13'27.186"N	85°07'50.299"E
P2	311050.9173	2648004.146	24°13'26.413"N	85°07'51.380"E
P3	311032.5063	2648003.654	24°13'26.397"N	85°07'50.777"E
P4	311004.3464	2648001.606	24°13'26.332"N	85°07'49.857"E
P5	311000.6635	2648000.649	24°13'26.301"N	85°07'49.736"E
P6	310992.1736	2648000.296	24°13'26.290"N	85°07'49.459"E
P7	310971.997	2648000.149	24°13'26.285"N	85°07'48.797"E
P8	310944.7301	2648000.651	24°13'26.302"N	85°07'47.904"E
P9	310932.5107	2648000.229	24°13'26.288"N	85°07'47.503"E
P10	310917.0307	2648000.979	24°13'26.313"N	85°07'47.000"E
P11	310890.4194	2648000.81	24°13'26.310"N	85°07'46.127"E
P12	310886.9955	2648000.123	24°13'26.287"N	85°07'46.013"E
P13	310852.9994	2648000.006	24°13'26.284"N	85°07'44.901"E
P14	310850.6943	2648000.182	24°13'26.290"N	85°07'44.824"E
P15	310844.4674	2648000.254	24°13'26.293"N	85°07'44.627"E
P16	310837.1206	2648000.989	24°13'26.318"N	85°07'44.387"E
P17	310734.7442	2648000.133	24°13'26.290"N	85°07'41.020"E
P18	310680.1625	2647964.816	24°13'25.142"N	85°07'39.249"E
P19	310654.1458	2647949.139	24°13'24.633"N	85°07'38.403"E
P20	310637.183	2647892.271	24°13'22.785"N	85°07'37.870"E
P21	310721.7965	2647837.763	24°13'20.997"N	85°07'40.617"E
P22	310745.2441	2647839.012	24°13'21.041"N	85°07'41.394"E
P23	310752.8267	2647841.51	24°13'21.122"N	85°07'41.637"E
P24	310771.3137	2647855.144	24°13'21.570"N	85°07'42.234"E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
GIDHOR	Humadhaki	35	1	8	RIVER	23.9586	
GIDHOR	Humadhaki	35	1	7	RIVER	3.3846	
				TOTAL AREA		27.3432	

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★
Approved

Superintendent of Survey

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_IK_MA_13,14-15,19,19A Block - Itkhori, District - Chatra, JHARKHAND

Itkhori

मशहूर नाम इटखोरी
थानानम्बर ३
थाना गोपौर
परगनः चै
ज़िला हज़ारीबाग़
पैमानाबहिनाब फी मील १६ ईन्च
सन १९१२-१३ ई.सी.

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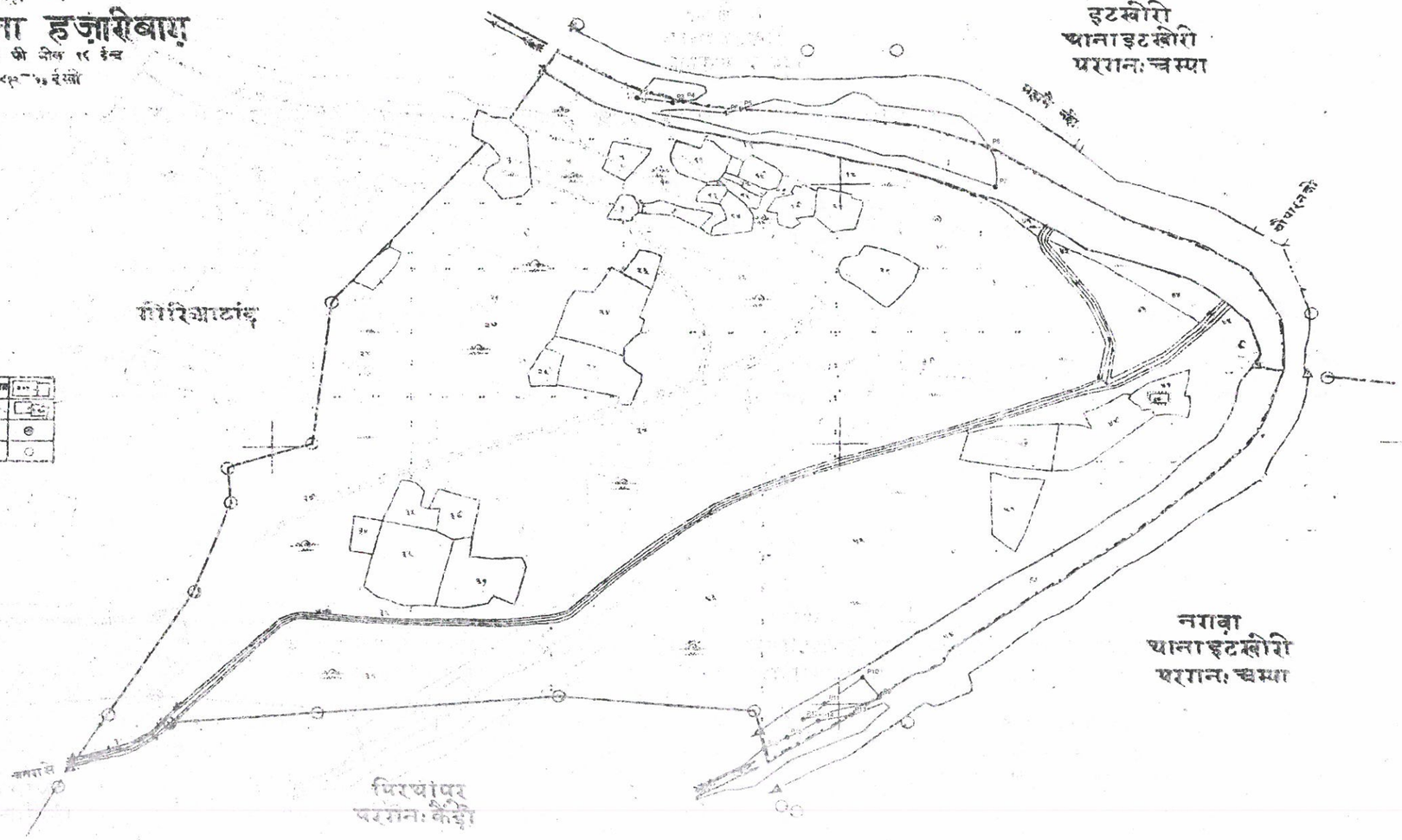


नम्बर	नामजै मशहूर
४८	दिगवारी दीकि
५२	चौपारन ५१ मील

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	311191.639	2687597.534	24°17'24.065" N	85°8'22.934" E
P2	311183.5394	2687587.478	24°17'23.741" N	85°8'22.652" E
P3	311135.0317	2687579.888	24°17'23.517" N	85°8'24.481" E
P4	311149.6715	2687581.736	24°17'23.583" N	85°8'24.999" E
P5	311330.608	2687569.015	24°17'23.255" N	85°8'27.875" E
P6	311310.9222	2687562.544	24°17'22.986" N	85°8'27.180" E
P7	311088.7931	2687442.79	24°17'19.258" N	85°8'40.634" E
P8	311079.2143	2687504.833	24°17'21.270" N	85°8'40.265" E
P9	311523.5632	2686649.76	24°16'53.415" N	85°8'35.151" E
P10	311501.0892	2686680.486	24°16'54.402" N	85°8'34.329" E
P11	311447.5486	2686639.524	24°16'53.062" N	85°8'32.430" E
P12	311416.9661	2686615.61	24°16'52.259" N	85°8'31.388" E
P13	311424.1943	2686621.902	24°16'52.489" N	85°8'33.768" E
P14	311438.4997	2686613.363	24°16'52.195" N	85°8'32.152" E
P15	311594.347	2686587.662	24°16'51.340" N	85°8'30.592" E
P16	311355.9587	2686560.788	24°16'50.745" N	85°8'29.388" E

Proposed Area in Ha of13- 0.25
Proposed Area in Ha of 14-15- 2.63
Proposed Area in Ha of 19- 0.22
Proposed Area in Ha of 19A- 0.90

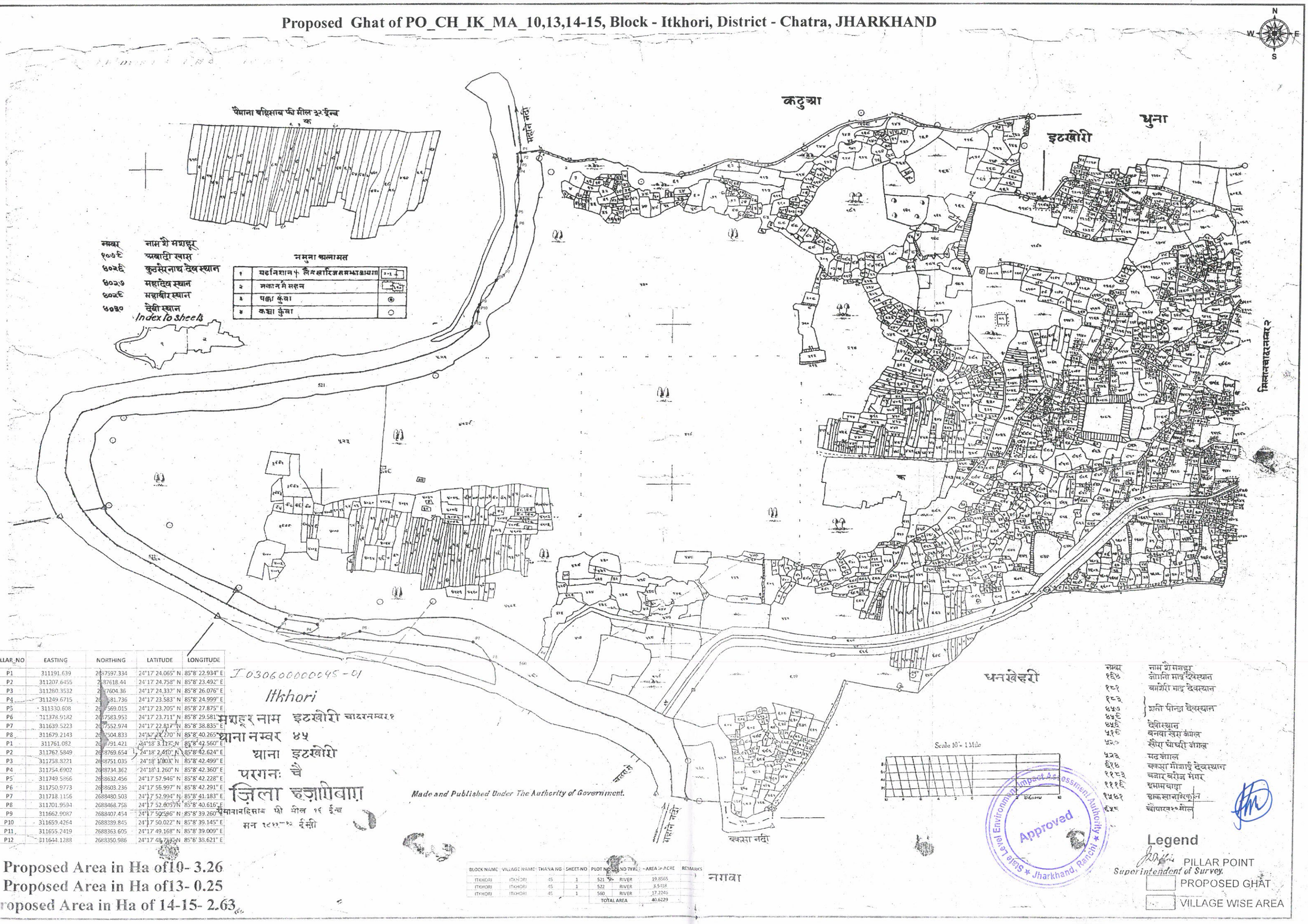
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
ITKHORI	ITKHORI	3	1	1	RIVER	16.0572	
ITKHORI	ITKHORI	3	1	54	RIVER	10.8151	
				TOTAL AREA		26.8723	

Superintendent of Survey

State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi

Legend
PILLAR POINT
PROPOSED GHAT
VILLAGE WISE AREA

Proposed Ghat of PO_CH_IK_MA_10,13,14-15, Block - Itkhori, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	311191.639	2687597.334	24°17' 24.065" N	85°8' 22.934" E
P2	311207.6455	2687618.44	24°17' 24.758" N	85°8' 23.492" E
P3	311280.3532	2687604.36	24°17' 24.332" N	85°8' 26.076" E
P4	311249.6715	2687581.736	24°17' 23.583" N	85°8' 24.999" E
P5	311330.608	2687569.015	24°17' 23.205" N	85°8' 27.875" E
P6	311378.9182	2687583.953	24°17' 23.711" N	85°8' 29.581" E
P7	311639.5223	2687552.974	24°17' 22.817" N	85°8' 38.835" E
P8	311679.2143	2687504.833	24°17' 21.270" N	85°8' 40.265" E
P1	311761.082	2687791.421	24°18' 3.117" N	85°8' 42.560" E
P2	311762.5849	2687769.654	24°18' 2.410" N	85°8' 42.624" E
P3	311758.8221	2687751.035	24°18' 1.803" N	85°8' 42.499" E
P4	311754.6902	2687734.362	24°18' 1.260" N	85°8' 42.360" E
P5	311749.5866	2687632.456	24°17' 57.946" N	85°8' 42.228" E
P6	311750.9773	2687603.236	24°17' 56.997" N	85°8' 42.291" E
P7	311718.1156	2687480.503	24°17' 52.994" N	85°8' 41.183" E
P8	311701.9594	2687468.758	24°17' 52.603" N	85°8' 40.616" E
P9	311662.9087	2687407.454	24°17' 50.596" N	85°8' 39.260" E
P10	311659.4264	2687339.845	24°17' 50.022" N	85°8' 39.145" E
P11	311655.2419	2687363.605	24°17' 49.168" N	85°8' 39.009" E
P12	311644.1288	2687350.986	24°17' 48.738" N	85°8' 38.621" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
ITKHORI	ITKHORI	45	1	521	RIVER	19.8565	
ITKHORI	ITKHORI	45	1	522	RIVER	3.5418	
ITKHORI	ITKHORI	45	1	560	RIVER	17.2246	
				TOTAL AREA		40.6229	

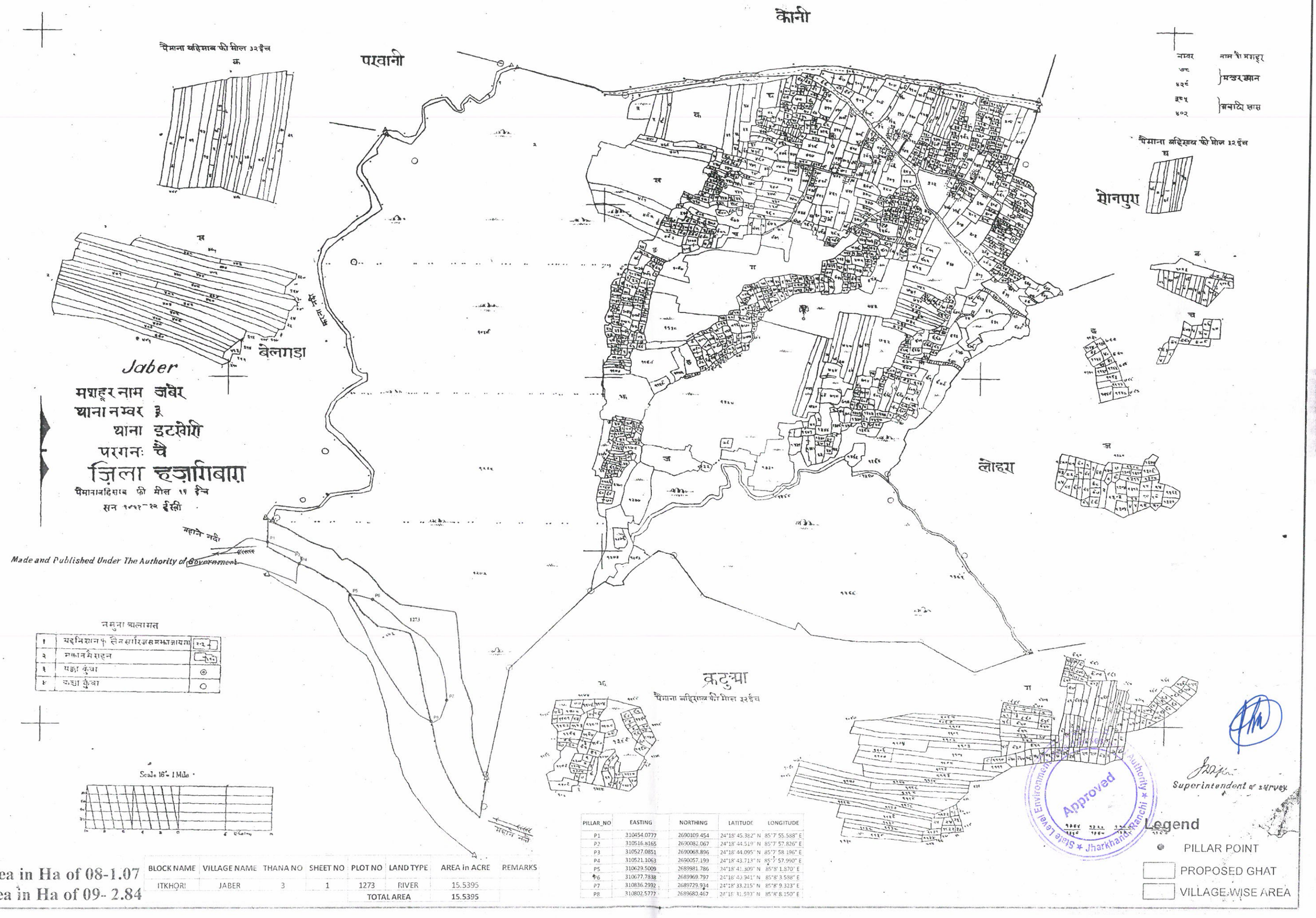
नम्बर	नाम शै मशहूर
१६४	जोगानी माइ देवस्थान
१८१	बागेरीरा माइ देवस्थान
१८३	
४५७	अती पीन्डा देवस्थान
४५८	
४५९	देवीस्थान
४५९	बनवा खेरा जंगल
४५०	सीरा घोघरी जंगल
५२३	मदजंगल
६१४	कक्सा गोसाई देवस्थान
११८३	बजार बरोज मेगर
१११६	धमाम चाड़ा
१५६१	चाकसानगिरकल
६२८	चौपारन२० मील

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Area in Ha of10- 3.26
Proposed Area in Ha of13- 0.25
Proposed Area in Ha of 14-15- 2.63

Proposed Ghat of PO_CH_IK_MA_08,09, Block - Itkhori, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	310454.0777	2690109.454	24°18' 45.382" N	85°7' 55.588" E
P2	310516.8165	2690082.067	24°18' 44.519" N	85°7' 57.826" E
P3	310527.0851	2690068.896	24°18' 44.095" N	85°7' 58.196" E
P4	310521.1063	2690057.199	24°18' 43.713" N	85°7' 57.990" E
P5	310629.5009	2689981.786	24°18' 41.309" N	85°8' 1.870" E
P6	310677.7838	2689969.797	24°18' 40.941" N	85°8' 3.598" E
P7	310836.2992	2689729.934	24°18' 33.215" N	85°8' 9.323" E
P8	310802.5777	2689680.467	24°18' 31.593" N	85°8' 8.150" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
ITKHORI	JABER	3	1	1273	RIVER	15.5395	
				TOTAL AREA		15.5395	

Proposed Area in Ha of 08-1.07

Proposed Area in Ha of 09- 2.84

Proposed Ghat of PO_CH_PG_MA_50,51, Block -Gidhor, District - Chatra, JHARKHAND

Jokdhi

मशहूर नाम जोकाही
थाना नम्बर ६९ 33।
थाना गीधौर
परगनः गोरिआ
ज़िला हज़ारीबाग़
पैमाना माप-ईंचमें मील १६ ईंच
सन १८९२-९३ ईसवी

Made and Published Under The Authority of Government

दुआरी

नोनगांव

ओबरी डीह

नमूना वालामत

१	यहनिशान + लैंडमार्क्सममाअक्षया
२	मकान मै सहन
३	पक्का कुंवा
४	कच्चा कुंवा

सीरकोल
थानासिमरिया

Conversion scale
0 100 200 300 400 Metres
0 5 10 15 20 Gunters chains

Approved
State Level Environment Impact Assessment Authority

Superintendent of Survey

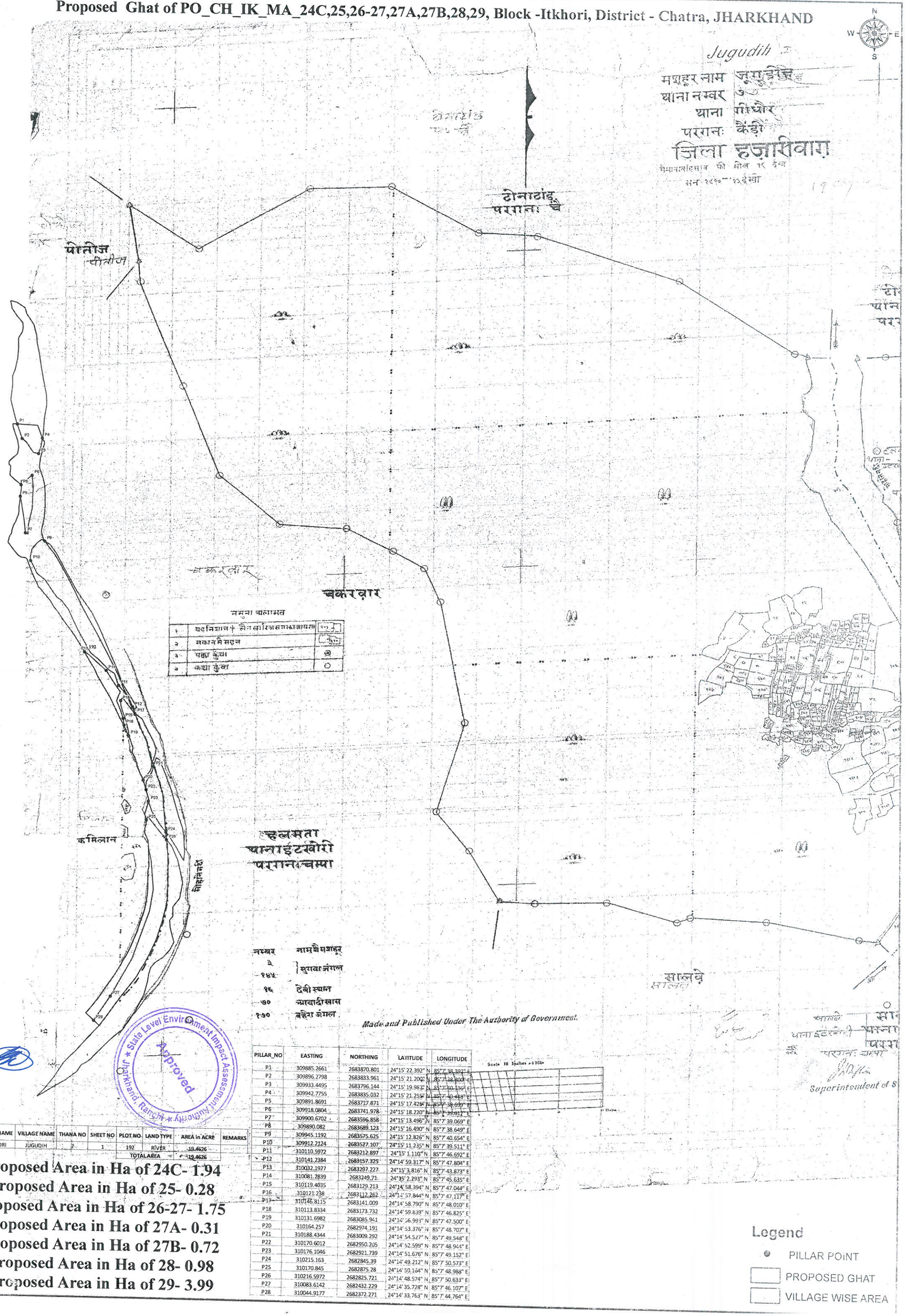
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
GIDHOR	Jokahi	69	1	17	RIVER	2.2294	
GIDHOR	Jokahi	69	1	129	RIVER	18.5957	
				TOTAL AREA		20.8251	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	308440.8146	2669540.87	24°7' 36.069" N	85°6' 54.043" E
P2	308442.1269	2669528.746	24°7' 35.675" N	85°6' 54.095" E
P3	308442.811	2669522.426	24°7' 35.470" N	85°6' 54.122" E
P4	308443.8688	2669512.652	24°7' 35.153" N	85°6' 54.164" E
P5	308458.8566	2669523.393	24°7' 35.509" N	85°6' 54.690" E
P6	308443.8688	2669512.652	24°7' 35.153" N	85°6' 54.164" E
P7	308754.2804	2669281.074	24°7' 27.763" N	85°7' 5.266" E
P8	308820.4867	2669196.858	24°7' 25.055" N	85°7' 7.650" E
P9	309062.6575	2669158.719	24°7' 23.921" N	85°7' 16.244" E
P10	309062.5052	2669174.666	24°7' 24.439" N	85°7' 16.231" E
P11	309070.29	2669564.802	24°7' 37.121" N	85°7' 16.321" E
P12	309099.2377	2669490.378	24°7' 34.715" N	85°7' 17.381" E

Proposed Area in Ha of 50- 1.45
Proposed Area in Ha of 51- 4.20

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE

Proposed Ghat of PO_CH_IK_MA_24C,25,26-27,27A,27B,28,29, Block -Itkhori, District - Chatra, JHARKHAND



नम्बर	नाम वे मशहूर
२	सुगवा जंगल
१४५	देवी स्थान
१६	आवादीखास
१७०	बहेरा जंगल

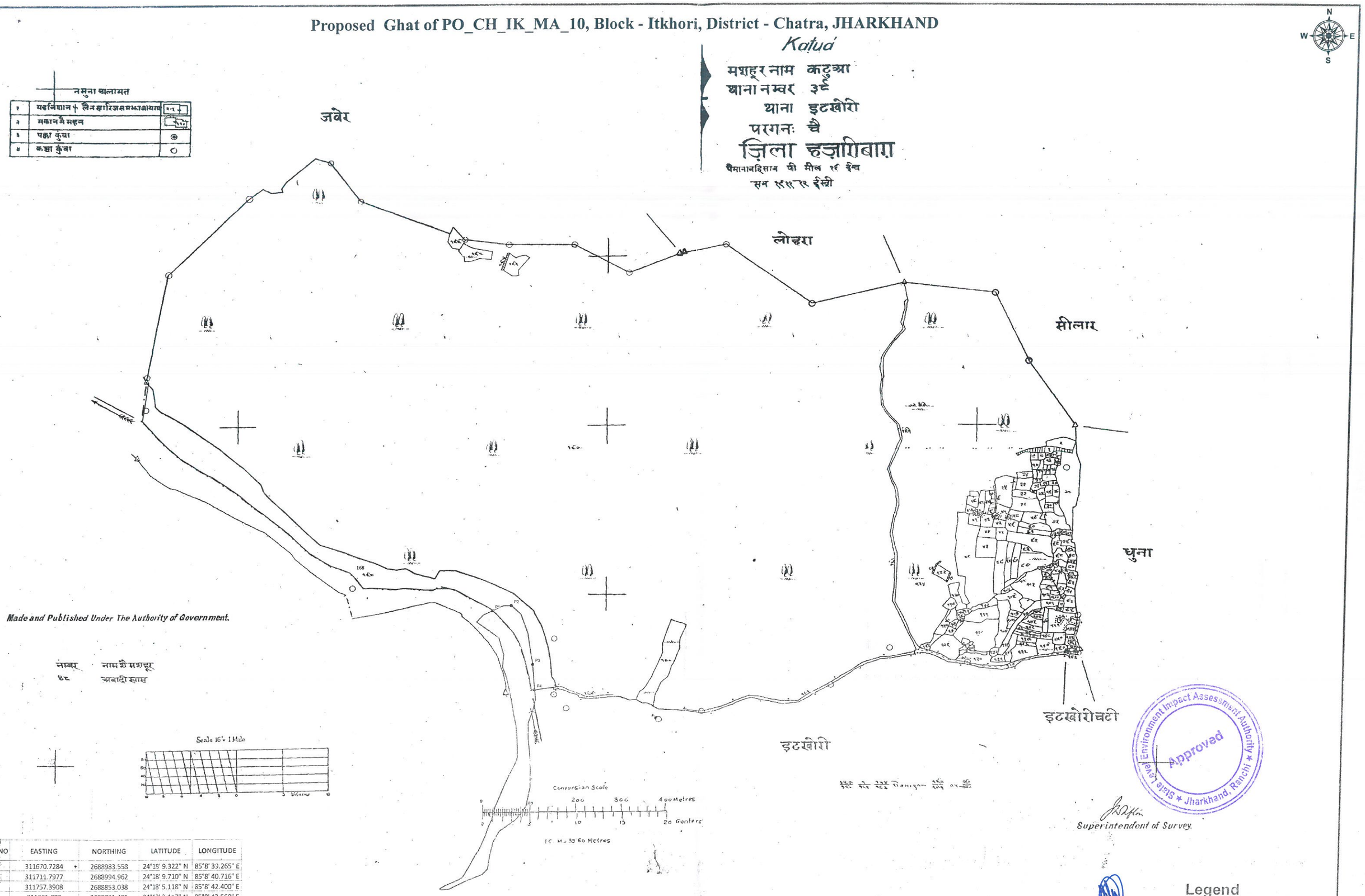
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	309885.2661	2683870.801	24°15' 22.392" N	85°7' 38.392" E
P2	309896.2798	2683833.961	24°15' 21.200" N	85°7' 38.800" E
P3	309933.4495	2683796.144	24°15' 19.982" N	85°7' 40.136" E
P4	309942.7755	2683835.032	24°15' 21.255" N	85°7' 40.418" E
P5	309891.8691	2683717.871	24°15' 17.425" N	85°7' 38.699" E
P6	309918.0804	2683741.978	24°15' 18.220" N	85°7' 39.617" E
P7	309900.6702	2683596.858	24°15' 13.496" N	85°7' 39.069" E
P8	309890.082	2683689.123	24°15' 16.490" N	85°7' 38.649" E
P9	309945.1192	2683575.625	24°15' 12.826" N	85°7' 40.654" E
P10	309912.2124	2683527.107	24°15' 11.235" N	85°7' 39.511" E
P11	310110.5972	2683212.897	24°15' 1.110" N	85°7' 46.692" E
P12	310141.2384	2683157.325	24°14' 59.317" N	85°7' 47.804" E
P13	310032.1927	2683297.227	24°15' 3.816" N	85°7' 43.873" E
P14	310081.2839	2683249.71	24°15' 2.293" N	85°7' 45.635" E
P15	310119.4035	2683129.213	24°14' 58.394" N	85°7' 47.044" E
P16	310121.238	2683112.262	24°14' 57.844" N	85°7' 47.117" E
P17	310146.8115	2683141.009	24°14' 58.790" N	85°7' 48.010" E
P18	310113.8334	2683173.732	24°14' 59.839" N	85°7' 46.825" E
P19	310131.6982	2683085.941	24°14' 56.993" N	85°7' 47.500" E
P20	310164.257	2682974.191	24°14' 53.376" N	85°7' 48.707" E
P21	310188.4344	2683009.292	24°14' 54.527" N	85°7' 49.548" E
P22	310170.6012	2682950.205	24°14' 52.599" N	85°7' 48.944" E
P23	310176.1046	2682921.739	24°14' 51.676" N	85°7' 49.152" E
P24	310215.163	2682845.39	24°14' 49.212" N	85°7' 50.573" E
P25	310170.845	2682875.28	24°14' 50.164" N	85°7' 48.988" E
P26	310216.5972	2682825.721	24°14' 48.574" N	85°7' 50.633" E
P27	310083.6142	2682432.229	24°14' 35.728" N	85°7' 46.107" E
P28	310044.9177	2682372.271	24°14' 33.763" N	85°7' 44.764" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
ITKHORI	JUGUDIH	7	1	192	RIVER	19.4626	
					TOTALAREA	19.4626	

Proposed Area in Ha of 24C- 1.94
Proposed Area in Ha of 25- 0.28
Proposed Area in Ha of 26-27- 1.75
Proposed Area in Ha of 27A- 0.31
Proposed Area in Ha of 27B- 0.72
Proposed Area in Ha of 28- 0.98
Proposed Area in Ha of 29- 3.99

State Level Environment Impact Assessment Authority * Jharkhand, Ranchi * Approved

Proposed Ghat of PO_CH_IK_MA_10, Block - Itkhori, District - Chatra, JHARKHAND

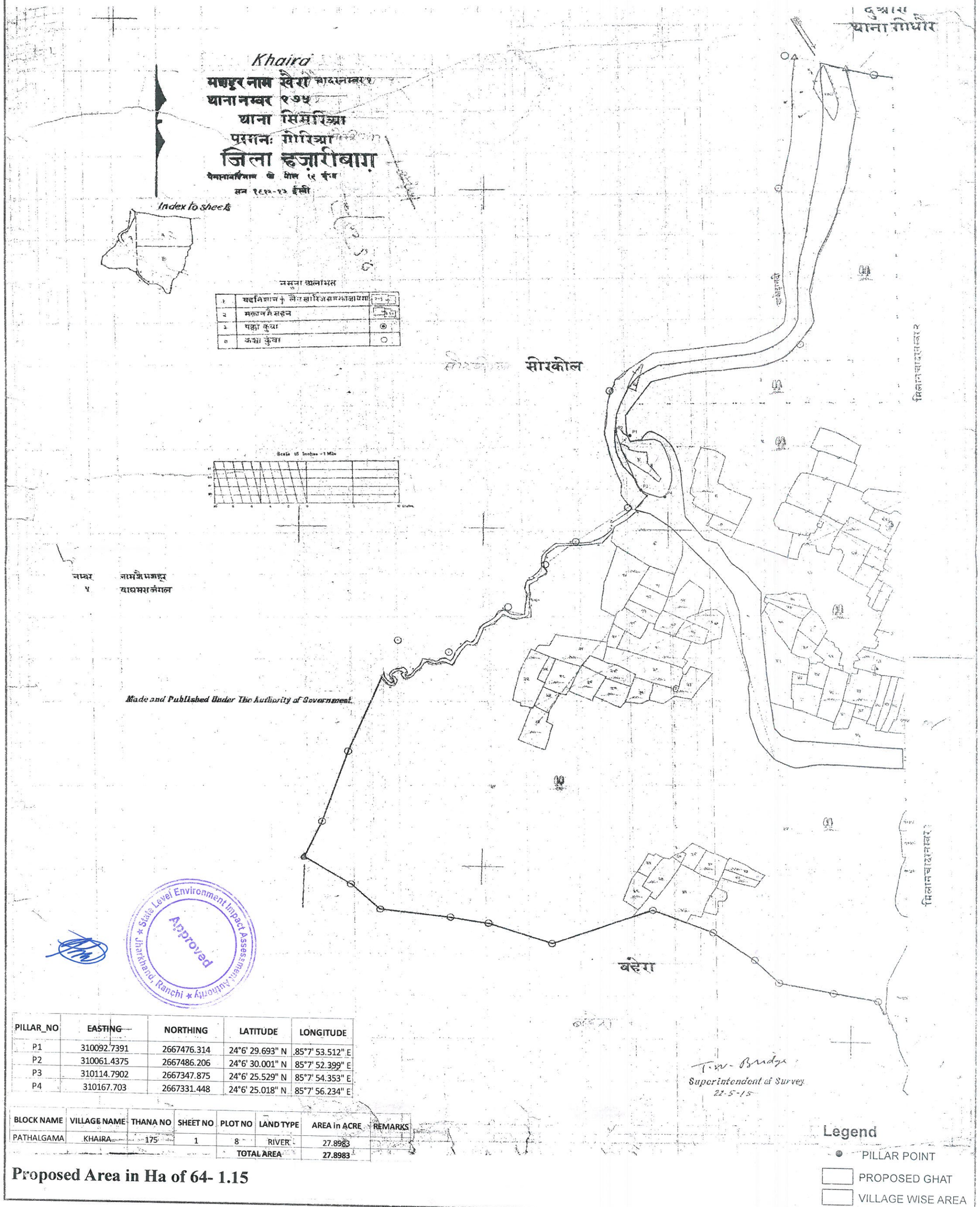


PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	311670.7284	2688983.558	24°18' 9.322" N	85°8' 39.265" E
P2	311711.7977	2688994.962	24°18' 9.710" N	85°8' 40.716" E
P3	311757.3908	2688853.038	24°18' 5.118" N	85°8' 42.400" E
P4	311761.082	2688791.421	24°13' 3.117" N	85°8' 42.560" E

Proposed Area in Ha of10- 3.26
Proposed Area in Ha of13- 0.25
Proposed Area in Ha of 14-15- 2.63

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
ITKHORI	KATUA	39	1	168	RIVER	14.6969	
				TOTAL AREA		14.6969	

Proposed Ghat of PO_CH_PG_MA_64, Block -Pathalgama, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	310092.7391	2667476.314	24°6' 29.693" N	85°7' 53.512" E
P2	310061.4375	2667486.206	24°6' 30.001" N	85°7' 52.399" E
P3	310114.7902	2667347.875	24°6' 25.529" N	85°7' 54.353" E
P4	310167.703	2667331.448	24°6' 25.018" N	85°7' 56.234" E

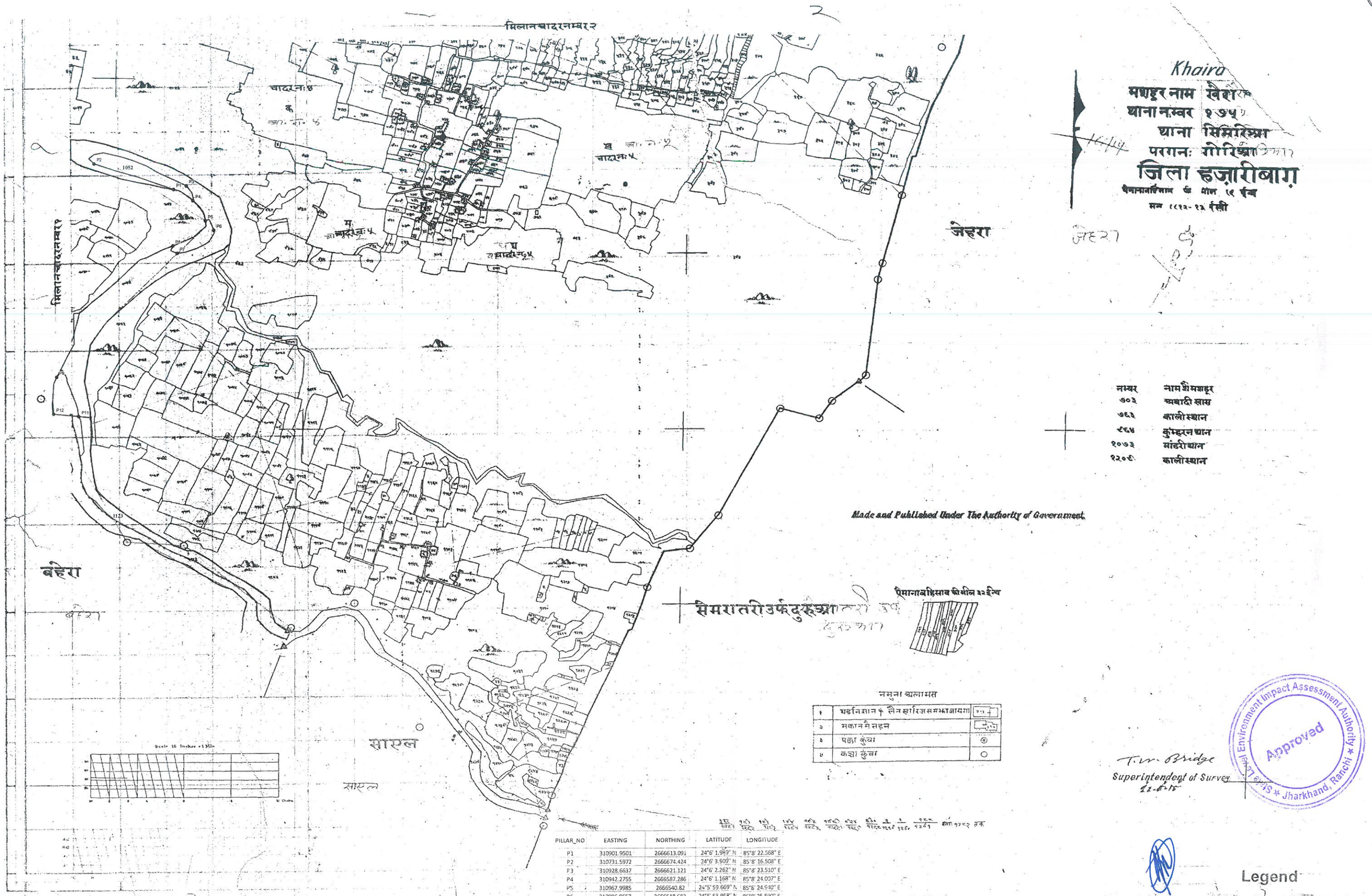
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
PATHALGAMA	KHAIRA	175	1	8	RIVER	27.8983	
				TOTAL AREA		27.8983	

Superintendent of Survey
22-5-15

Proposed Area in Ha of 64- 1.15

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PG_MA_65,66,67, Block -Pathalgama, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	310901.9501	2666613.091	24°6' 1.989" N	85°8' 22.568" E
P2	310731.5972	2666674.424	24°6' 3.909" N	85°8' 16.508" E
P3	310928.6637	2666621.121	24°6' 2.262" N	85°8' 23.510" E
P4	310942.2755	2666587.286	24°6' 1.168" N	85°8' 24.007" E
P5	310967.9985	2666540.82	24°5' 59.669" N	85°8' 24.940" E
P6	310986.0657	2666518.683	24°5' 58.958" N	85°8' 25.590" E
P7	310908.3462	2666467.024	24°5' 57.245" N	85°8' 22.863" E
P8	310899.2636	2666484.387	24°5' 57.806" N	85°8' 22.533" E
P9	310648.6672	2666186.016	24°5' 48.001" N	85°8' 13.801" E
P10	310659.3822	2666199.003	24°5' 48.428" N	85°8' 14.175" E
P11	310694.478	2666094.575	24°5' 45.049" N	85°8' 15.466" E
P12	310641.6574	2666100.708	24°5' 45.225" N	85°8' 13.593" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
PATHALGAMA	KHAIRA	175	3	1052	RIVER	12.9502	
PATHALGAMA	KHAIRA	175	3	1123	RIVER	4.0716	
				TOTAL AREA		17.0218	

Proposed Area in Ha of 65- 0.61
Proposed Area in Ha of 66- 0.26
Proposed Area in Ha of 67- 0.49

Proposed Ghat of PO_CH_PG_MA_69,70,73,74,76, Block -Pathalgama, District - Chatra, JHARKHAND

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Meral
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थाना सिमरिया
परगना गोरिया
जिला हजारीबाग
पैमानाबहिसाब फी मील १९ इंच
सन १९१५-१३ ई॰सी॰

नमूना अलामत

१	यहनिशान + लैनखारिजतमझाजायगा	
२	मकानमैसहन	
३	पक्का कुंवा	◉
४	कच्चा कुंवा	○

बहेरा

मेराल

सेमरातरी उर्फ -
दुरुआ

मेरमगड़ा

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	310705.1729	2664525.138	24°4' 54.049" N	85°8' 16.582" E
P2	310686.7	2664506.159	24°4' 53.424" N	85°8' 15.937" E
P3	310612.7528	2664437.588	24°4' 51.164" N	85°8' 13.352" E
P4	310600.558	2664407.714	24°4' 50.188" N	85°8' 12.934" E
P5	310600.558	2664407.714	24°4' 50.188" N	85°8' 12.934" E
P8	310580.7089	2664410.195	24°4' 50.260" N	85°8' 12.230" E
P21	310480.6874	2663479.718	24°4' 19.977" N	85°8' 9.127" E
P22	310496.6951	2663434.753	24°4' 18.523" N	85°8' 9.715" E
P23	310517.3284	2663323.582	24°4' 14.919" N	85°8' 10.497" E
P24	310518.4797	2663298.43	24°4' 14.102" N	85°8' 10.550" E
P10	310557.8819	2664283.661	24°4' 46.138" N	85°8' 11.482" E
P11	310538.7538	2664081.138	24°4' 39.548" N	85°8' 10.900" E
P12	310558.776	2664067.594	24°4' 39.116" N	85°8' 11.615" E
P13	310760.275	2663844.546	24°4' 35.204" N	85°8' 18.805" E
P14	310667.3077	2663972.456	24°4' 39.379" N	85°8' 15.502" E
P15	310833.9138	2663930.003	24°4' 38.011" N	85°8' 21.409" E
P16	310871.5039	2663931.958	24°4' 34.843" N	85°8' 22.748" E
P17	311071.8631	2663513.681	24°4' 21.336" N	85°8' 30.036" E
P18	311059.1213	2663574.851	24°4' 23.318" N	85°8' 29.557" E
P19	310984.37	2663639.257	24°4' 29.280" N	85°8' 26.955" E
P20	311048.306	2663490.846	24°4' 20.580" N	85°8' 29.213" E
P9	310572.9659	2664220.788	24°4' 46.376" N	85°8' 12.012" E
P7	310545.013	2664321.35	24°4' 47.357" N	85°8' 11.009" E
P6	310569.1937	2664324.586	24°4' 47.473" N	85°8' 11.860" E

Made after Digitized Data Authority of Government.

Scale 10 Inches = 1 Mile

मिलान चादर नम्बर ४

मिलान चादर नम्बर २

T.M. Bridge
Superintendent of Survey
22-5-15

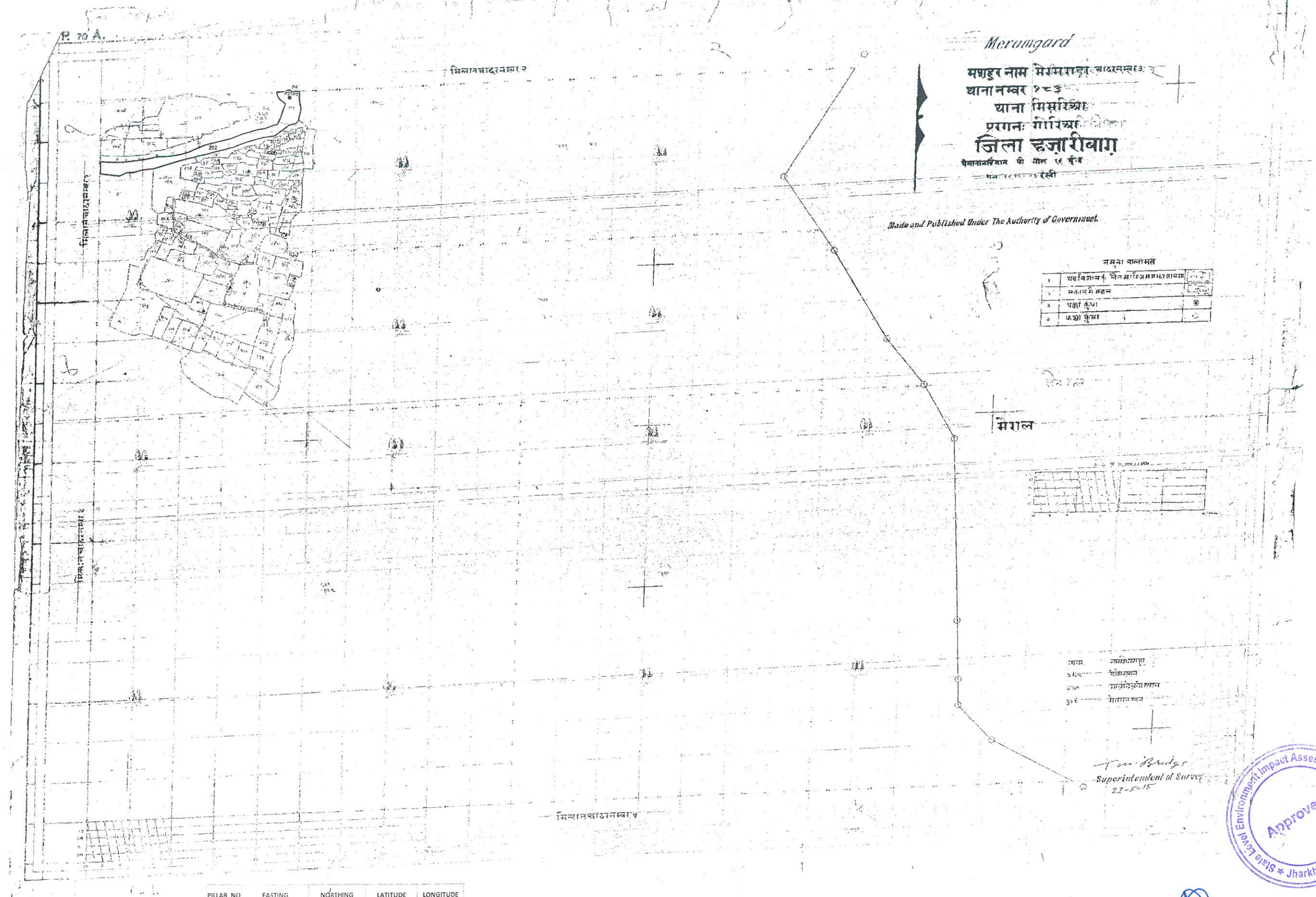
Proposed Area in Ha of 69- 2.33
Proposed Area in Ha of 70- 0.44
Proposed Area in Ha of 73- 0.33
Proposed Area in Ha of 74- 0.78
Proposed Area in Ha of 76- 0.10

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
PATHALGAMA	MERAL	203	1	4	RIVER	2.8207	
PATHALGAMA	MERAL	203	1	9	RIVER	27.5477	
PATHALGAMA	MERAL	203	1	1	RIVER	1.7882	
				TOTAL AREA		32.1566	

State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PG_MA_79, Block -Pathalgama, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	309416.8466	2662421.302	24°3' 45.120" N	85°7' 31.972" E
P2	309422.4146	2662405.826	24°3' 44.620" N	85°7' 32.177" E
P3	309423.2979	2662417.06	24°3' 44.985" N	85°7' 32.203" E
P4	309421.8197	2662421.402	24°3' 45.126" N	85°7' 32.148" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
PATHALGAMA	MERAMGARA	183	3	202	RIVER	3.5635	
				TOTAL AREA		3.5635	

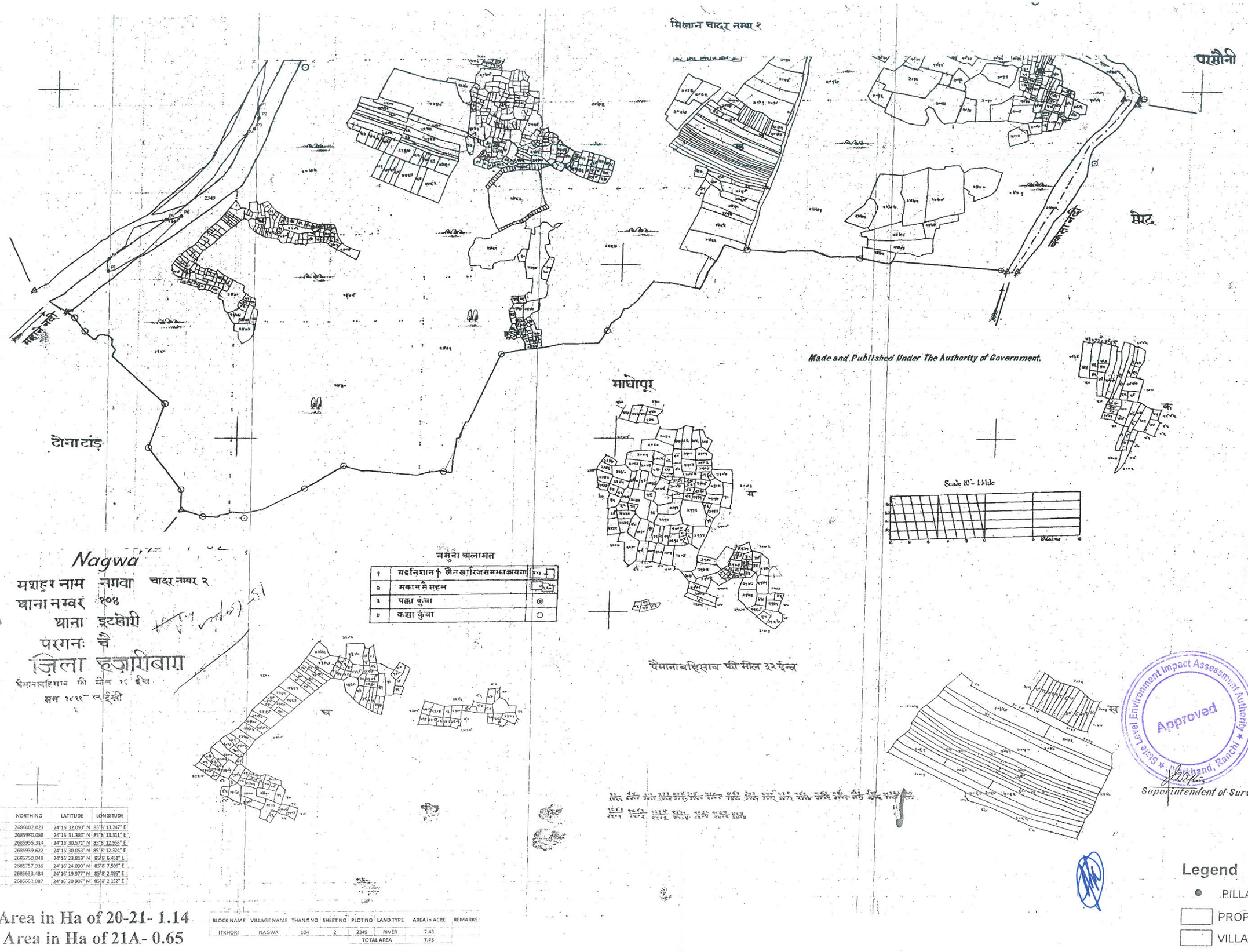
Proposed Area in Ha of 69- 2.33
Proposed Area in Ha of 70- 0.44
Proposed Area in Ha of 73- 0.33
Proposed Area in Ha of 74- 0.78
Proposed Area in Ha of 76- 0.10

State Level Environment Impact Assessment Authority * Jharkhand, Ranchi * Approved

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_IK_MA_20_21,21A, Block -Itkhori, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	310897.0911	2686002.023	24°16' 32.093" N	85°8' 13.247" E
P2	310898.594	2685980.088	24°16' 31.380" N	85°8' 13.311" E
P3	310888.3126	2685955.314	24°16' 30.571" N	85°8' 12.958" E
P4	310870.2011	2685939.622	24°16' 30.053" N	85°8' 12.324" E
P5	310702.0187	2685750.048	24°16' 23.819" N	85°8' 6.451" E
P6	310734.425	2685757.936	24°16' 24.090" N	85°8' 7.596" E
P7	310577.5713	2685633.484	24°16' 19.977" N	85°8' 2.095" E
P8	310579.5763	2685661.087	24°16' 20.907" N	85°8' 2.152" E

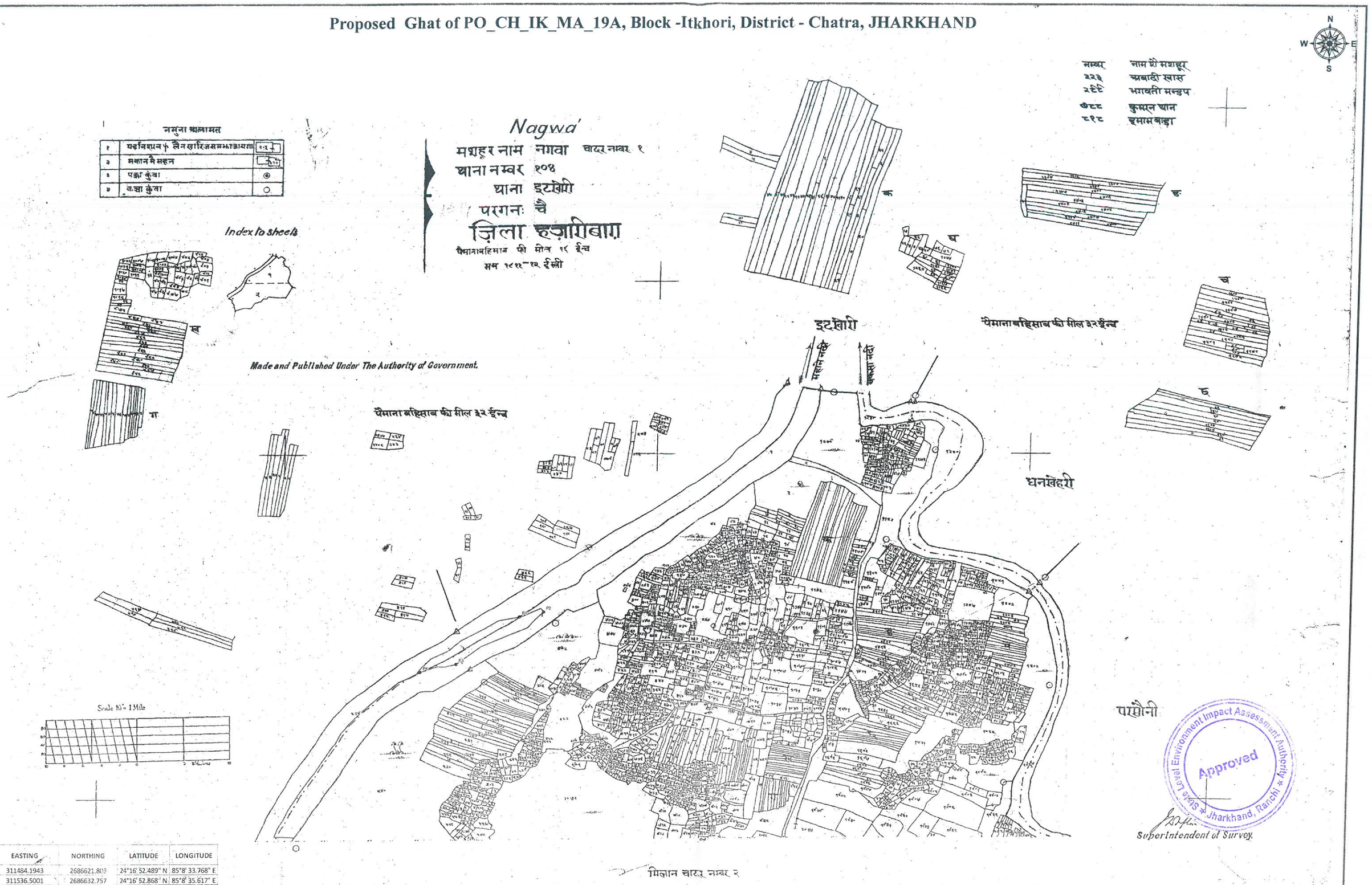
Proposed Area in Ha of 20-21- 1.14
Proposed Area in Ha of 21A- 0.65

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
ITKHORI	NAGWA	104	2	2349	RIVER	7.43	
				TOTAL AREA		7.43	

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_IK_MA_19A, Block -Itkhori, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	311484.1943	2686621.803	24°16' 52.489" N	85°8' 33.768" E
P2	311536.5001	2686632.757	24°16' 52.868" N	85°8' 35.617" E
P3	311347.0056	2686512.227	24°16' 48.868" N	85°8' 28.956" E
P4	311269.6654	2686494.982	24°16' 48.275" N	85°8' 26.222" E

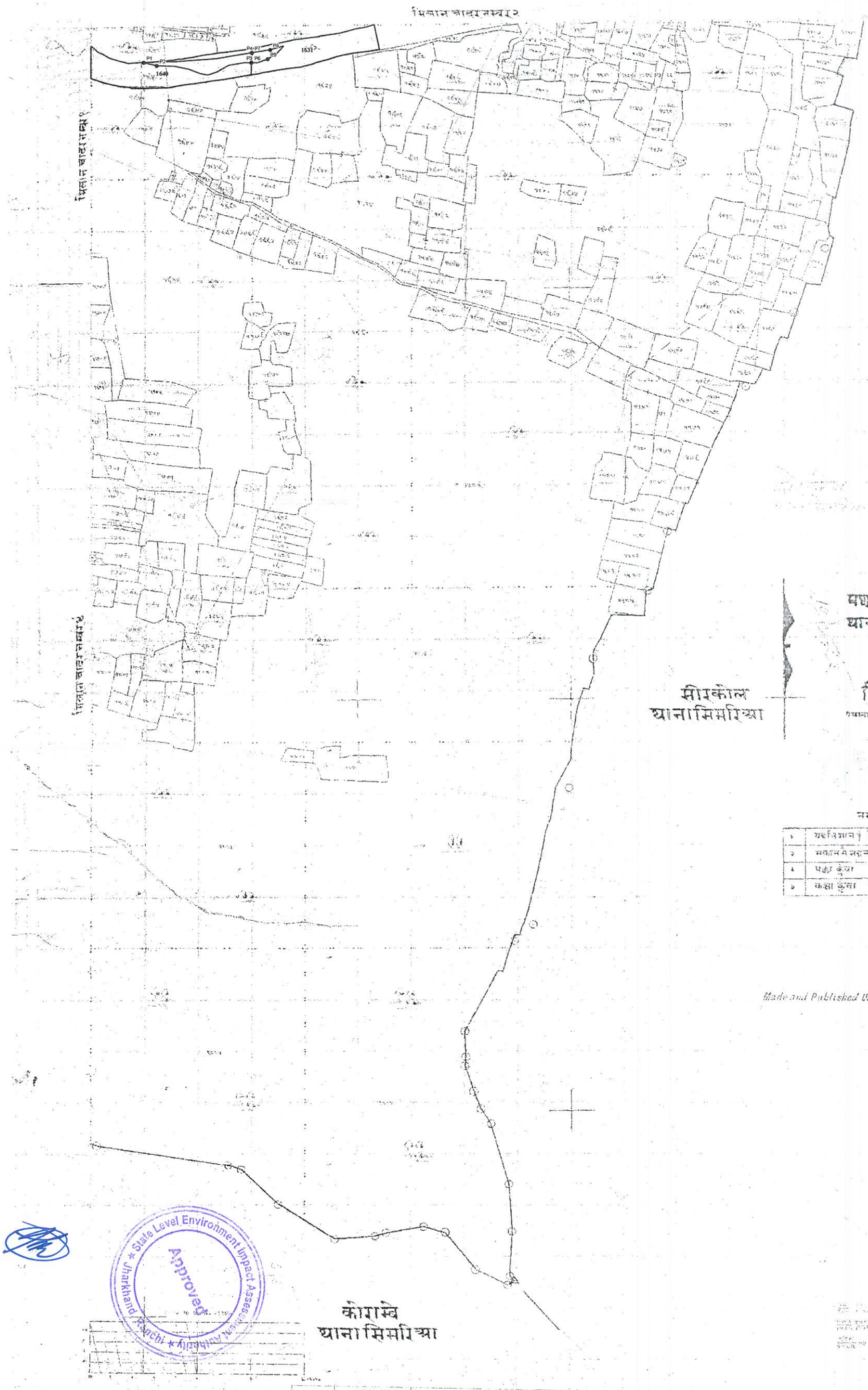
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
ITKHORI	NAGWA	104	1	1	RIVER	18.0559	
				TOTAL AREA		18.0559	

Proposed Area in Ha of 19A- 0.90

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PG_MA_54, Block -Pathalgama, District - Chatra, JHARKHAND



Nongaon

मानचित्र नाम नोनगांव चादरा नम्बर २
थाना नम्बर ६७
थाना गोंधोर
परगना गोरिया
जिला हजारीबाग

नमूना आलामत

१	रथ विशान	
२	मतान से सड़क	
३	पक्का कुंआ	◉
४	कच्चा कुंआ	○

Made and Published Under The Authority of Government.

Superintendent of Survey

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
PATHALGAMA	NONGAON	67	3	1631	RIVER	3.0112	
PATHALGAMA	NONGAON	67	3	1640	RIVER	3.9036	
				TOTAL AREA		6.9148	

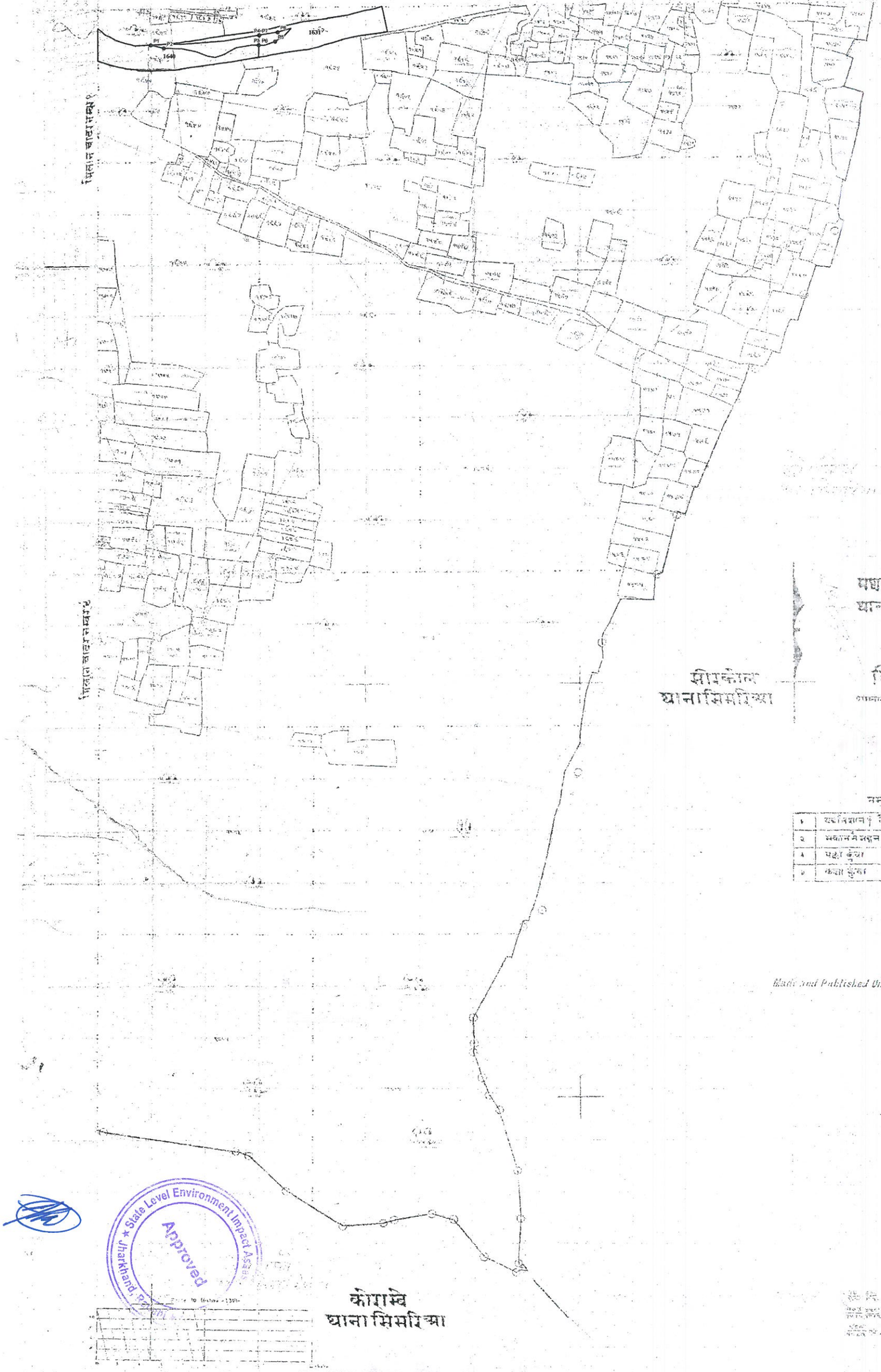
Proposed Area in Ha of 53- 0.44

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P7	307191.2125	2668871.627	24°7' 13.772" N	85°6' 10.115" E
P8	307225.0386	2668877.894	24°7' 13.990" N	85°6' 11.310" E
P5	307220.1125	2668858.943	24°7' 13.372" N	85°6' 11.145" E
P6	307190.3212	2668851.366	24°7' 13.113" N	85°6' 10.094" E
P1	306991.7418	2668851.562	24°7' 13.032" N	85°6' 3.062" E
P2	307015.8105	2668844.645	24°7' 12.818" N	85°6' 3.918" E
P3	307190.3212	2668851.366	24°7' 13.113" N	85°6' 10.094" E
P4	307191.2125	2668871.627	24°7' 13.772" N	85°6' 10.115" E

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PG_MA_54, Block -Pathalgama, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
PATHALGAMA	NONGAON	67	3	1631	RIVER	3.0112	
PATHALGAMA	NONGAON	67	3	1640	RIVER	3.9036	
					TOTAL AREA	6.9148	

Proposed Area in Ha of 53- 0.44

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P7	307191.2125	2668871.627	24°7'13.772" N	85°6'10.115" E
P8	307225.0386	2668877.834	24°7'13.930" N	85°6'11.310" E
P5	307220.1125	2668858.943	24°7'13.372" N	85°6'11.145" E
P6	307190.3212	2668851.366	24°7'13.117" N	85°6'10.094" E
P1	306991.79_8	2668851.562	24°7'13.032" N	85°6'3.062" E
P2	307015.8105	2668846.345	24°7'12.855" N	85°6'3.918" E
P3	307190.3212	2668851.366	24°7'13.115" N	85°6'10.094" E
P4	307191.2125	2668871.627	24°7'13.772" N	85°6'10.115" E

नमूना वाला मद

1	एकविधान/ [illegible]	
2	मकान नंबरवन	
3	पक्का कुंआ	
4	कच्चा कुंआ	

Made and Published Under The Authority of Government

Superintendent of Survey

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

State Level Environment Impact Assessment Authority, Jharkhand
Approved

Proposed Ghat of PO_CH_PG_MA_53, Block -Pathalgama, District - Chatra, JHARKHAND



Nongdon

मझहर नाम नोनगांव चादर नम्बर २
थाना नम्बर ६७ ८२७
थाना गोंधौर
परगनः गोरिआ
जिला हज़ारीबाग़
पैमानाजरीबाब ४० मील २८ इन्च
सन १९१२–१३ ईस्वी

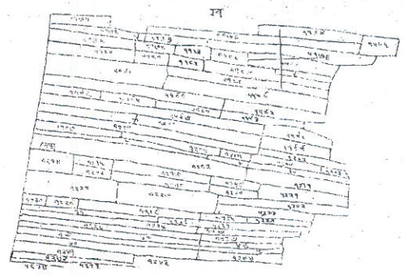
तीलैया उर्फतीलैटांड़

बीमनापुर

चुआरी



पैमानाजरीबाब की मील ४० इन्च



समझा कानामत

१	मकान नं सहन	
२	पक्का कुंवा	०
३	कच्चा कुंवा	०

मिलान चादर नम्बर

जोकाही

सीरकोल
थाना सिमरिया

Superintendent of Survey

Made and Published Under The Authority of Government

Conversion Scale

Scale 16 Inches = 1 Mile

Approved
State Level Environment Impact Assessment Authority (SEIAA)
Jharkhand, Ranchi

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	308064.6462	2669081.171	24°7' 20.965" N	85°6' 40.942" E
P2	308094.6949	2669117.355	24°7' 22.154" N	85°6' 41.989" E
P3	308114.6748	2669260.068	24°7' 26.801" N	85°6' 42.628" E
P4	308095.3857	2669303.152	24°7' 28.192" N	85°6' 41.925" E

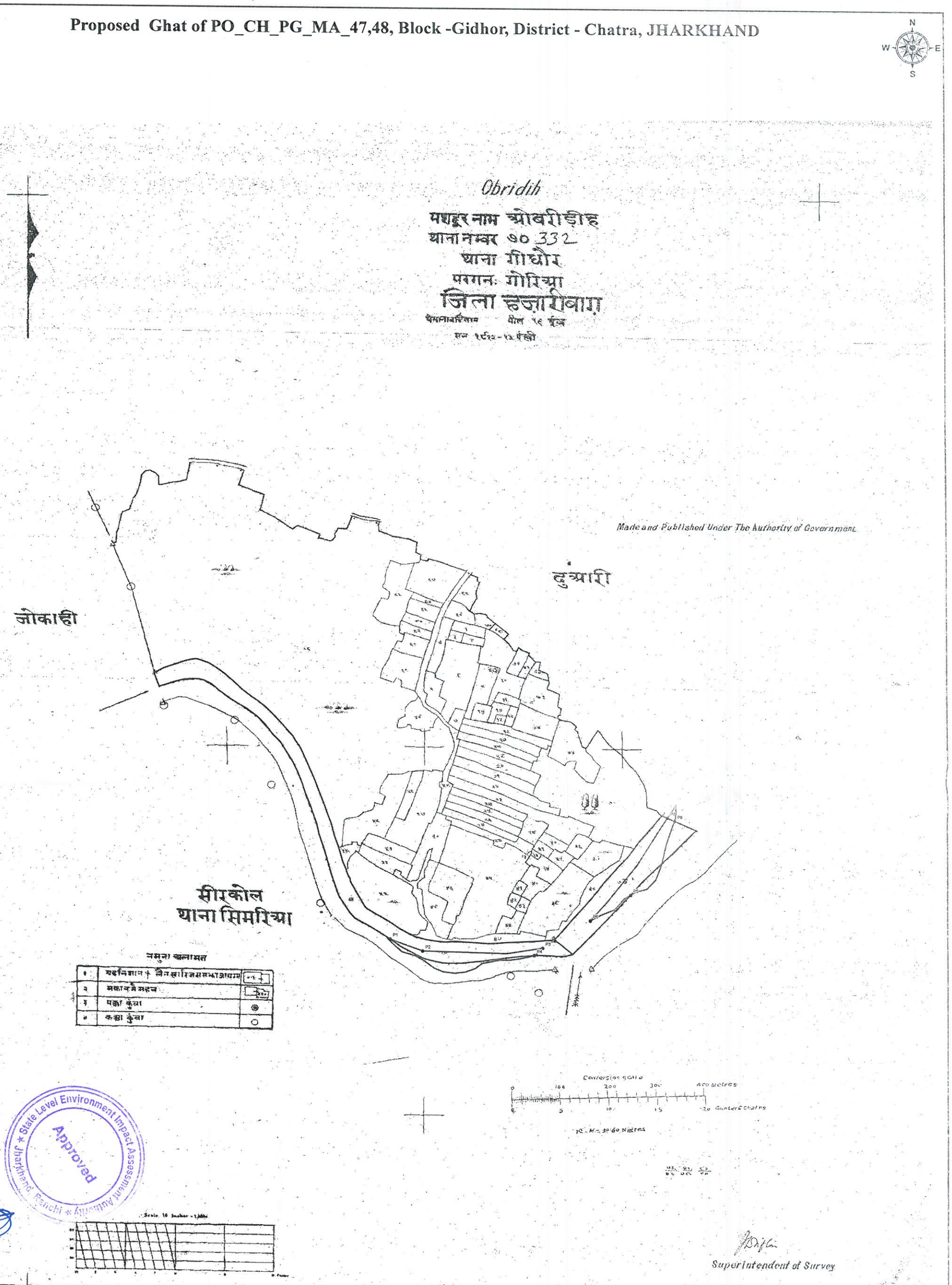
Proposed Area in Ha of 53- 0.44

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
PATHALGAMA	NONGAON	67	2	1479	RIVER	14.9044	
				TOTAL AREA		14.9044	

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PG_MA_47,48, Block -Gidhor, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
GIDHOR	Obridih	70	1	48	RIVER	9.6634	
GIDHOR	Obridih	70	1	77	RIVER	5.3018	
				TOTAL AREA		14.9652	

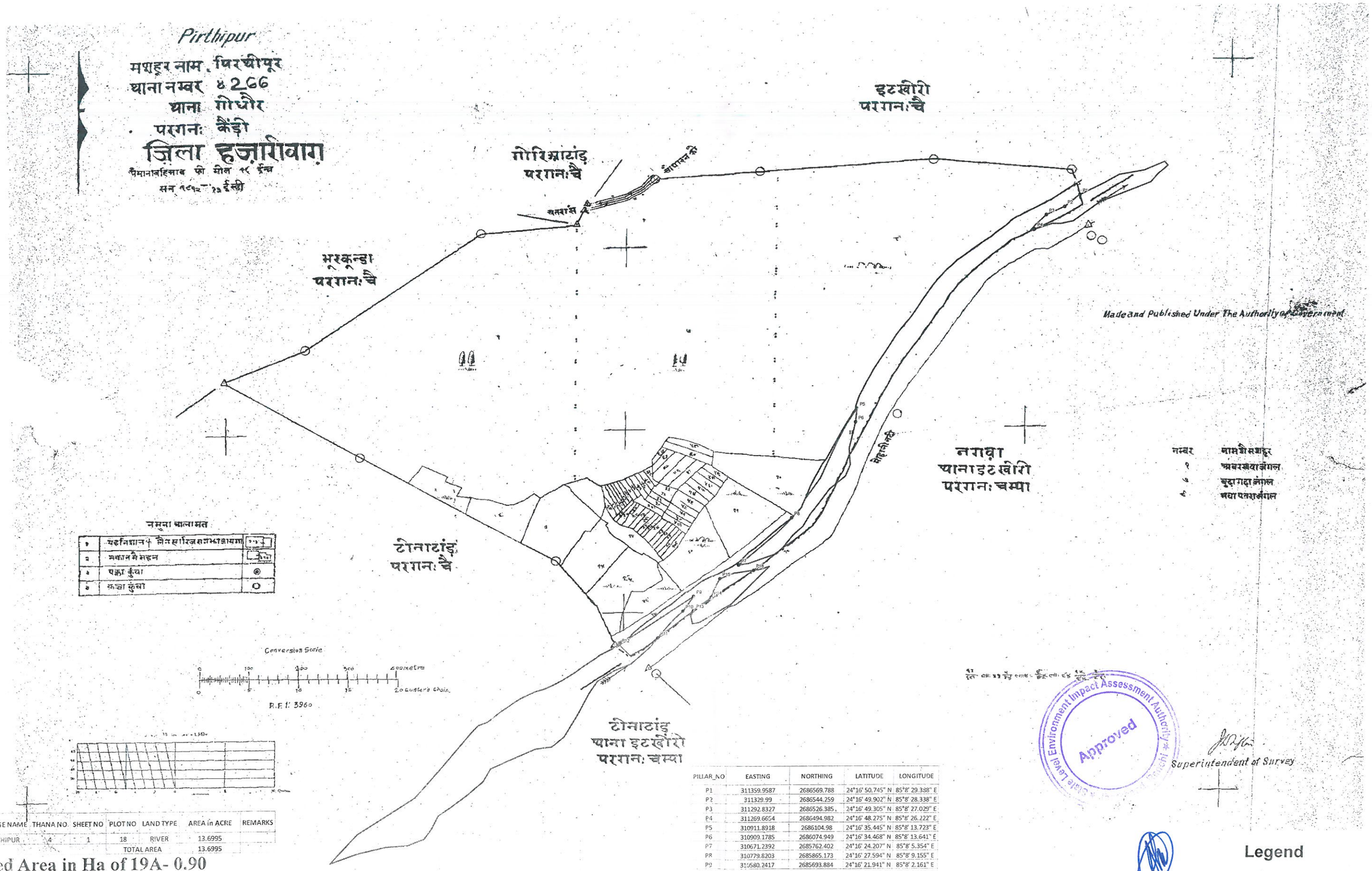
PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	309743.2394	2669105.975	24°7' 22.503" N	85°7' 40.367" E
P2	309809.2361	2669079.273	24°7' 21.664" N	85°7' 42.717" E
P3	310053.9047	2669085.646	24°7' 21.977" N	85°7' 51.377" E
P4	310036.2649	2669069.134	24°7' 21.433" N	85°7' 50.761" E
P5	310235.1813	2669204.52	24°7' 25.821" N	85°7' 57.742" E
P6	310152.1049	2669145.941	24°7' 23.979" N	85°7' 54.826" E
P7	310313.3139	2669370.468	24°7' 31.346" N	85°8' 0.428" E
P8	310328.0007	2669363.418	24°7' 31.123" N	85°8' 0.952" E

Proposed Area in Ha of 47- 0.85
Proposed Area in Ha of 48- 0.76

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_IK_MA_19A,21-21,21A,22, Block -Itkhori, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO.	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
ITKHORI	PIRTHIPUR	4	1	18	RIVER	13.6995	
				TOTAL AREA		13.6995	

Proposed Area in Ha of 19A- 0.90
Proposed Area in Ha of 20-21 - 1.14
Proposed Area in Ha of 21A- 0.65
Proposed Area in Ha of 22- 6.00

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	311359.9587	2686569.788	24°16' 50.745" N	85°8' 29.338" E
P2	311329.99	2686544.259	24°16' 49.902" N	85°8' 28.338" E
P3	311292.8327	2686526.385	24°16' 49.305" N	85°8' 27.029" E
P4	311269.6654	2686494.982	24°16' 48.275" N	85°8' 26.222" E
P5	310911.8918	2686104.98	24°16' 35.445" N	85°8' 13.723" E
P6	310909.1785	2686074.949	24°16' 34.468" N	85°8' 13.641" E
P7	310671.2392	2685762.402	24°16' 24.207" N	85°8' 5.354" E
P8	310779.8203	2685865.173	24°16' 27.594" N	85°8' 9.155" E
P9	310680.2417	2685693.884	24°16' 21.941" N	85°8' 2.161" E
P10	310658.4469	2685661.779	24°16' 20.888" N	85°8' 1.404" E
P11	310506.7065	2685603.829	24°16' 18.992" N	85°7' 59.597" E
P12	310428.3497	2685589.743	24°16' 18.491" N	85°7' 56.826" E
P13	310579.7613	2685662.235	24°16' 20.912" N	85°8' 2.159" E
P14	310615.9381	2685691.414	24°16' 21.876" N	85°8' 3.428" E
P15	310633.6094	2685732.355	24°16' 23.214" N	85°8' 4.035" E
P16	310702.0187	2685750.048	24°16' 23.819" N	85°8' 6.451" E

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_IK_MA_40, Block -Itkhori, District - Chatra, JHARKHAND

मिलान चादर नम्बर १

N
W E
S

Rajbar
मशहूर नाम राजबर चादर नम्बर २
थाना नम्बर ११०
थाना इटखोरी
परगनः चै
जिला हजारीबाग
पैमाना १ इंच = १ मील
सन १९११ ई॰

Scale 16" = 1 Mile

ढोटवा
थाना हजारीबाग
परगनः चम्पा

Made and Published Under The Authority of Government

नम्बर	नाम मै मशहूर
७२८	मजारी खास

मनाए
थाना हजारीबाग
परगनः चम्पा

बड़ाकुमू नदी

१	चहारदिवारी तैनसाखिजसकाठाघरा
२	मकान मै सहन
३	पक्का कुंवा
४	कच्चा कुंवा

Superintendent of Survey

State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P9	310228.0999	2680967.133	24°13' 49.028" N	85°7' 51.384" E
P10	310239.9707	2680834.482	24°13' 37.914" N	85°7' 52.494" E
P11	310257.4933	2680520.84	24°13' 33.607" N	85°7' 53.175" E
P12	310239.7305	2680494.823	24°13' 32.858" N	85°7' 52.560" E
P13	310252.8058	2680458.035	24°13' 31.645" N	85°7' 53.040" E
P14	310254.0327	2680505.731	24°13' 33.187" N	85°7' 53.093" E
P15	310341.8021	2680492.339	24°13' 32.783" N	85°7' 56.417" E
P16	310370.2709	2680312.963	24°13' 26.962" N	85°7' 57.372" E
P1	310506.042	2680243.121	24°13' 24.770" N	85°8' 2.651" E
P2	310541.178	2680130.008	24°13' 21.037" N	85°8' 3.037" E
P3	310704.8408	2680215.374	24°13' 23.747" N	85°8' 9.122" E
P4	310721.2057	2680258.744	24°13' 25.150" N	85°8' 9.781" E
P5	310725.6705	2680347.024	24°13' 27.985" N	85°8' 11.017" E
P6	310791.2048	2680423.267	24°13' 30.459" N	85°8' 13.296" E
P7	311414.1927	2680412.468	24°13' 29.894" N	85°8' 33.120" E
P8	310881.2049	2680236.0958	24°13' 19.077" N	85°8' 13.855" E
P1	310816.2049	2680079.934	24°13' 13.951" N	85°8' 11.789" E
P2	310677.1197	2680079.934	24°13' 19.511" N	85°8' 15.351" E
P3	310710.3984	2680022.773	24°13' 17.671" N	85°8' 15.760" E
P4	310707.533	2679987.771	24°13' 16.470" N	85°8' 17.176" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
ITKHORI	RAJBAR	110	2	540	RIVER	26.183	
					TOTAL AREA	26.183	

Proposed Area in Ha of 40- 4.40

Proposed Ghat of PO_CH_IK_MA_40,PO_CH_GD_MA_36,38 Block -Itkhori, District - Chatra, JHARKHAND

नमूना खतियान

१	पहचान चौहद्दी जिनसे जमीन का पता चलता है	
२	मकान मै महल	
३	पक्का कुंवा	⊕
४	कच्चा कुंवा	○

Scale 16"= 1 Mile

Index to Sheets

Rajbar

मशहूर नाम राजबर वार्ड नम्बर २
थाना नम्बर ११०
थाना इटखोरी
परगनः चै
जिला हजारीबाग
पैमानावहिसाब फी मील ४ इंच
सन १८२१-२२ ई॰सी॰

Made and Published Under The Authority of Government.

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P9	310226.0599	2680687.113	24°13' 39.078" N	85° 7' 51.984" E
P10	310239.9707	2680651.417	24°13' 37.924" N	85° 7' 52.494" E
P11	310257.4533	2680520.61	24°13' 33.680" N	85° 7' 53.175" E
P12	310239.7305	2680494.611	24°13' 32.828" N	85° 7' 52.560" E
P13	310252.8058	2680458.036	24°13' 31.645" N	85° 7' 53.040" E
P14	310354.0327	2680505.621	24°13' 33.192" N	85° 7' 53.061" E
P15	330346.8081	2680362.573	24°13' 28.583" N	85° 7' 56.417" E
P16	310370.2709	2680312.969	24°13' 26.982" N	85° 7' 57.272" E
P1	310504.042	2680243.131	24°13' 24.720" N	85°8' 2.045" E
P2	310588.176	2680250.068	24°13' 25.032" N	85°8' 5.023" E
P3	310704.8408	2680178.194	24°13' 22.747" N	85°8' 9.192" E
P4	310721.2057	2680153.644	24°13' 21.956" N	85°8' 9.783" E
P5	310755.6705	2680127.924	24°13' 21.135" N	85°8' 11.012" E
P6	310791.7046	2680123.242	24°13' 20.999" N	85°8' 12.296" E
P7	310814.6827	2680102.469	24°13' 20.334" N	85°8' 13.120" E
P8	310836.2049	2680089.984	24°13' 19.937" N	85°8' 13.889" E
P1	310836.2049	2680089.984	24°13' 19.937" N	85°8' 13.889" E
P2	310877.3197	2680079.404	24°13' 19.611" N	85°8' 15.351" E
P3	310916.3984	2680026.713	24°13' 17.916" N	85°8' 16.760" E
P4	310927.533	2679982.271	24°13' 16.476" N	85°8' 17.176" E

पुरुमदाग

नम्बर नाम जो मशहूर
२१८ आबादी खास

केवला

सालवे

जमपुर

चिलान नादर नम्बर २

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
ITKHORI	RAJBAR	110	1	549	RIVER	14.0373	
					TOTAL AREA	14.0373	

Proposed Area in Ha of 40- 4.40
Proposed Area in Ha of 36- 1.86
Proposed Area in Ha of 38- 0.66

State Level Environment Impact Assessment Authority Jharkhand, Ranchi Approved

Legend
PILLAR POINT
PROPOSED GHAT
VILLAGE WISE AREA

Proposed Ghat of PO_CH_IK_MA_29,30, PO_CH_GD_MA_31,32,33,34,35,36, Block -Itkhori, District - Chatra, JHARKHAND

N
W E
S

Salwe
मशहूर नाम सालवे
थाना नम्बर १०८
थाना इटखोरी
परगनः चै
ज़िला हज़ारीबाग़
पैमानाबदिसाब ४ी मील १ ईच
सन १८२२-२३ ई॰

Conversion Scale
100 200 300 400 Metres
5 10 15 20 Gunters chains
1 C.M.=39 60 Metres

नमूना चलामत

१	यह निशान १ लैन खारिज समझा जायगा	
२	मकान मै सहन	
३	पक्का कुंवा	◉
४	कच्चा कुंवा	○

हलमता

नम्बर	नाम मौ मशहूर
३१९	बाबोली रास
४९०	देवी मन्दिर

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	310084.5892	2682326.283	24°14' 32.286" N	85°7' 46.192" E
P2	310070.6201	2682311.625	24°14' 31.803" N	85°7' 45.703" E
P3	310005.8081	2682244.034	24°14' 29.578" N	85°7' 43.439" E
P4	309913.7177	2682180.275	24°14' 27.466" N	85°7' 40.205" E
P5	309966.7477	2682190.274	24°14' 28.107" N	85°7' 42.075" E
P6	309892.2558	2682137.213	24°14' 26.057" N	85°7' 39.465" E
P7	309806.1647	2681915.944	24°14' 18.829" N	85°7' 36.519" E
P8	309852.34	2681982.794	24°14' 21.022" N	85°7' 38.124" E
P9	309852.34	2681982.794	24°14' 21.022" N	85°7' 38.124" E
P10	309823.6004	2681881.493	24°14' 17.717" N	85°7' 37.156" E
P11	309856.2496	2681507.787	24°14' 5.587" N	85°7' 38.488" E
P12	309818.7147	2681569.478	24°14' 7.575" N	85°7' 37.129" E
P13	309822.8655	2681553.736	24°14' 7.065" N	85°7' 37.283" E
P14	309857.7022	2681496.144	24°14' 5.209" N	85°7' 38.545" E
P15	309875.3749	2681447.097	24°14' 3.623" N	85°7' 39.195" E
P16	309871.4615	2681404.938	24°14' 2.251" N	85°7' 39.076" E
P17	309931.6423	2681270.812	24°13' 57.918" N	85°7' 41.273" E
P18	309968.3675	2681236.951	24°13' 56.834" N	85°7' 42.590" E
P19	310004.7962	2680979.734	24°13' 48.530" N	85°7' 47.193" E
P20	310115.2892	2680922.018	24°13' 46.663" N	85°7' 47.947" E
P21	310115.7055	2680998.394	24°13' 49.146" N	85°7' 47.925" E
P22	310096.1228	2681033.132	24°13' 50.266" N	85°7' 47.215" E
P23	310142.0955	2680877.142	24°13' 45.217" N	85°7' 48.918" E
P24	310173.7185	2680862.019	24°13' 44.739" N	85°7' 50.046" E
P25	310133.1606	2680861.071	24°13' 44.693" N	85°7' 48.522" E
P26	310176.0741	2680851.598	24°13' 44.401" N	85°7' 50.134" E
P27	310195.5698	2680765.354	24°13' 41.607" N	85°7' 50.866" E
P28	310226.0599	2680687.113	24°13' 39.078" N	85°7' 51.984" E
P29	310134.3775	2680873.029	24°13' 45.080" N	85°7' 48.646" E
P30	310134.9469	2680875.073	24°13' 45.146" N	85°7' 48.666" E
P31	310134.5023	2680886.062	24°13' 45.503" N	85°7' 48.645" E
P32	310128.1744	2680889.974	24°13' 45.628" N	85°7' 48.419" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
ITKHORI	SALWE	108	1	1	RIVER	16.8786	
				TOTAL AREA		16.8786	

Made and Published Under The Authority of Government

Scale 16"= 1 Mile

पैमाना ८० चेन का माल ३० ईंच

Superintendent of Survey.

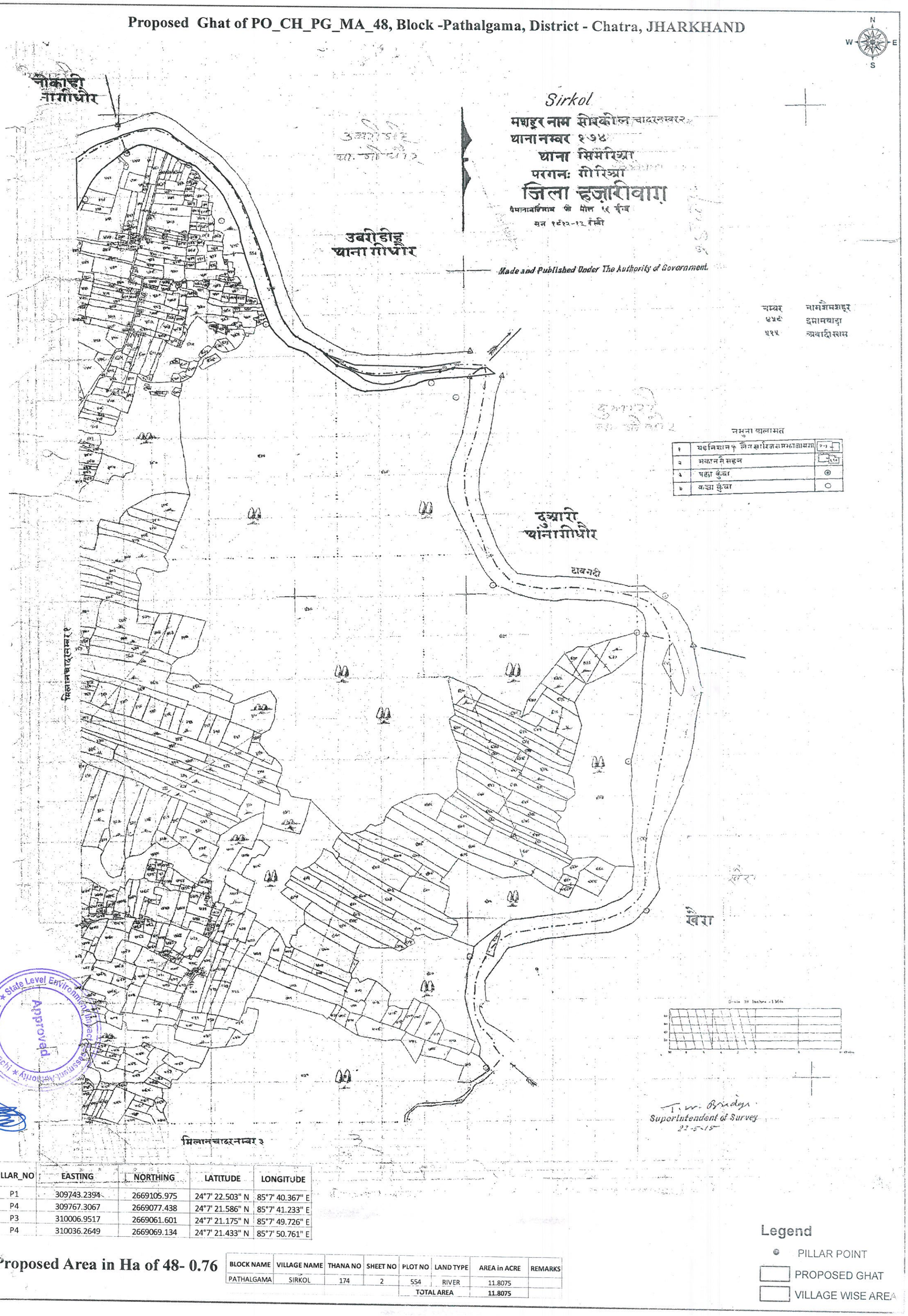
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi

Proposed Area in Ha of 29- 0.90
Proposed Area in Ha of 30 - 3.99
Proposed Area in Ha of 31- 0.67
Proposed Area in Ha of 32- 0.17
Proposed Area in Ha of 33- 0.99
Proposed Area in Ha of 34- 0.42
Proposed Area in Ha of 35- 0.40
Proposed Area in Ha of 36- 1.86

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
ITKHORI	SALWE	108	1	1	RIVER	16.8786	
				TOTAL AREA		16.8786	

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PG_MA_48, Block -Pathalgama, District - Chatra, JHARKHAND

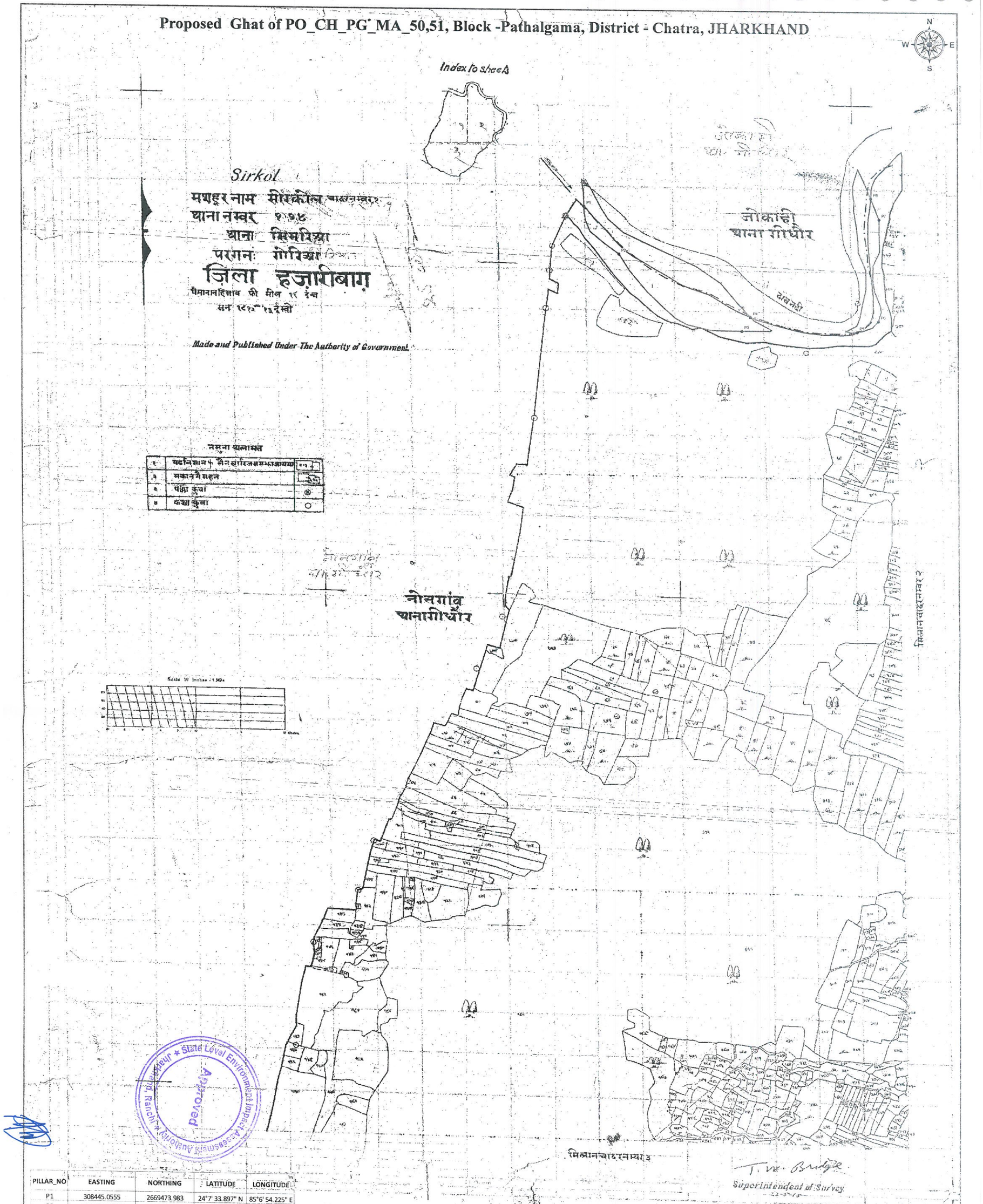


PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	309743.2394	2669105.975	24°7' 22.503" N	85°7' 40.367" E
P4	309767.3067	2669077.438	24°7' 21.586" N	85°7' 41.233" E
P3	310006.9517	2669061.601	24°7' 21.175" N	85°7' 49.726" E
P4	310036.2649	2669069.134	24°7' 21.433" N	85°7' 50.761" E

Proposed Area in Ha of 48- 0.76

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
PATHALGAMA	SIRKOL	174	2	554	RIVER	11.8075	
				TOTAL AREA		11.8075	

Proposed Ghat of PO_CH_PG_MA_50,51, Block -Pathalgama, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	308445.0555	2669473.983	24°7' 33.897" N	85°6' 54.225" E
P2	308522.5449	2669355.227	24°7' 30.072" N	85°6' 57.025" E
P3	308800.1387	2669162.426	24°7' 23.927" N	85°7' 6.946" E
P4	308820.4867	2669196.858	24°7' 25.055" N	85°7' 7.650" E
P5	309062.6575	2669158.719	24°7' 23.921" N	85°7' 16.244" E
P6	309111.8772	2669185.578	24°7' 24.815" N	85°7' 17.974" E
P7	309117.4565	2669438.471	24°7' 33.036" N	85°7' 18.051" E
P8	309099.2377	2669490.378	24°7' 34.715" N	85°7' 17.381" E

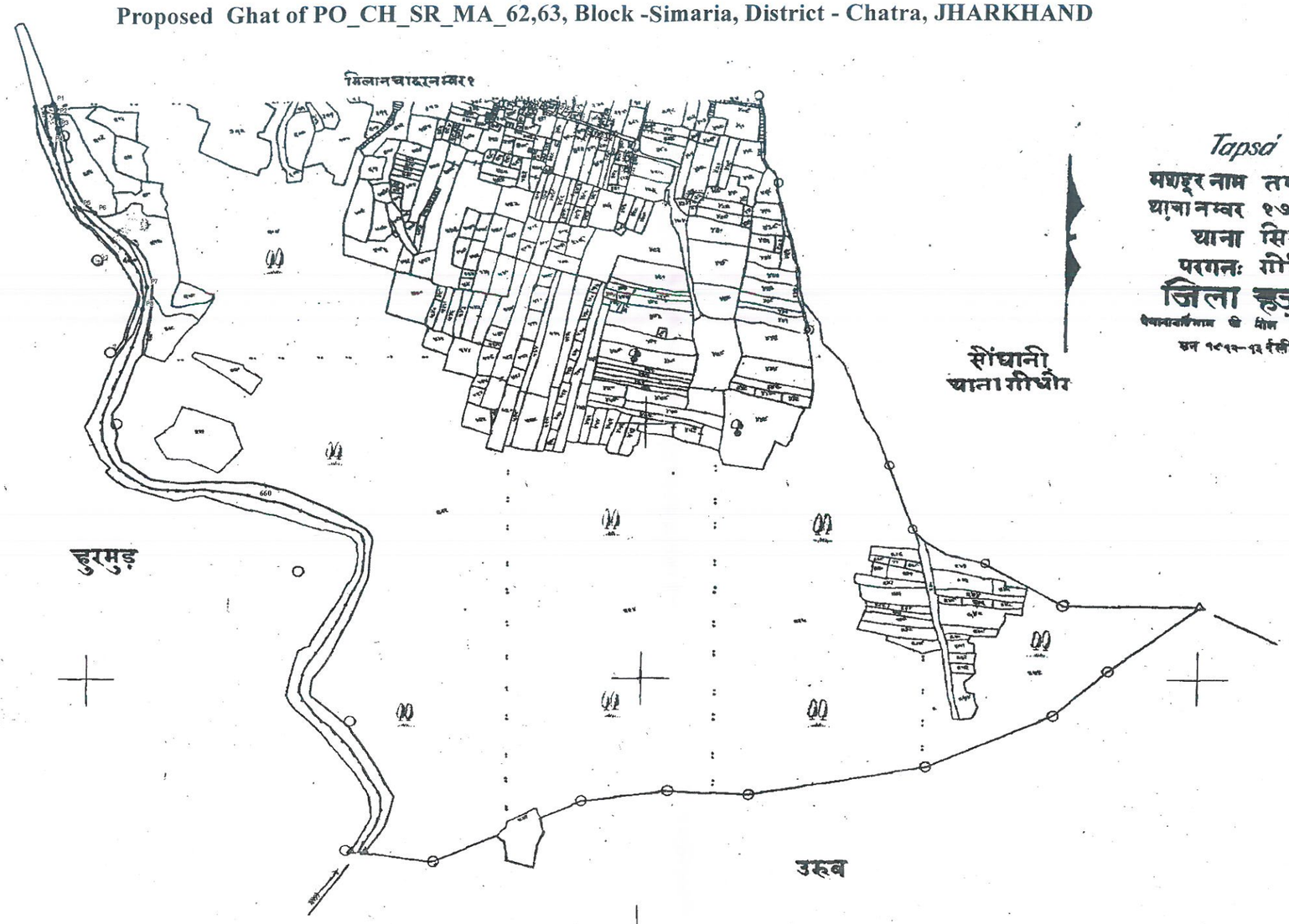
Proposed Area in Ha of 50- 1.45
Proposed Area in Ha of 51- 4.20

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
PATHALGAMA	SIRKOL	174	1	1	RIVER	16.3734	
				TOTAL AREA		16.3734	

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_SR_MA_62,63, Block -Simaria, District - Chatra, JHARKHAND



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नमूना चलानपत

१	घहनिशान पै नक्शाजिस समझाया गया	उत्तर
२	मकान वै गहन	
३	पक्का कुंवा	
४	कच्चा कुंवा	

Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
T.M. Bridge
Superintendent of Survey
22-5-15

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
SIMARIA	TAPSA	171	2	660	RIVER	5.9355	
				TOTAL AREA		5.9355	

Proposed Area in Ha of 62- 0.39
Proposed Area in Ha of 63- 0.46

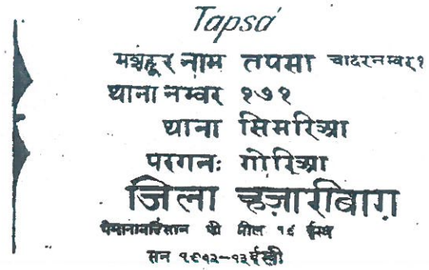
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	303538.2354	2665282.209	24°5' 15.513" N	85°4' 3.232" E
P2	303552.2078	2665262.448	24°5' 14.872" N	85°4' 3.382" E
P3	303564.1832	2665243.409	24°5' 14.254" N	85°4' 3.461" E
P4	303553.9364	2665216.901	24°5' 13.441" N	85°4' 3.147" E
P5	303594.7619	2665115.567	24°5' 10.114" N	85°4' 4.606" E
P6	303617.8624	2665107.529	24°5' 9.863" N	85°4' 5.428" E
P7	303695.3188	2664989.235	24°5' 6.052" N	85°4' 8.156" E
P8	303686.4546	2664953.815	24°5' 4.898" N	85°4' 7.931" E

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PG_MA_60,61,61A,PO_CH_SR_MA_61B,62, Block -Simaria, District - Chatra, JHARKHAND







नम्बर	नामी मशहूर
४७	सिमरा नोटिफाइड
२२६	आबादी खास

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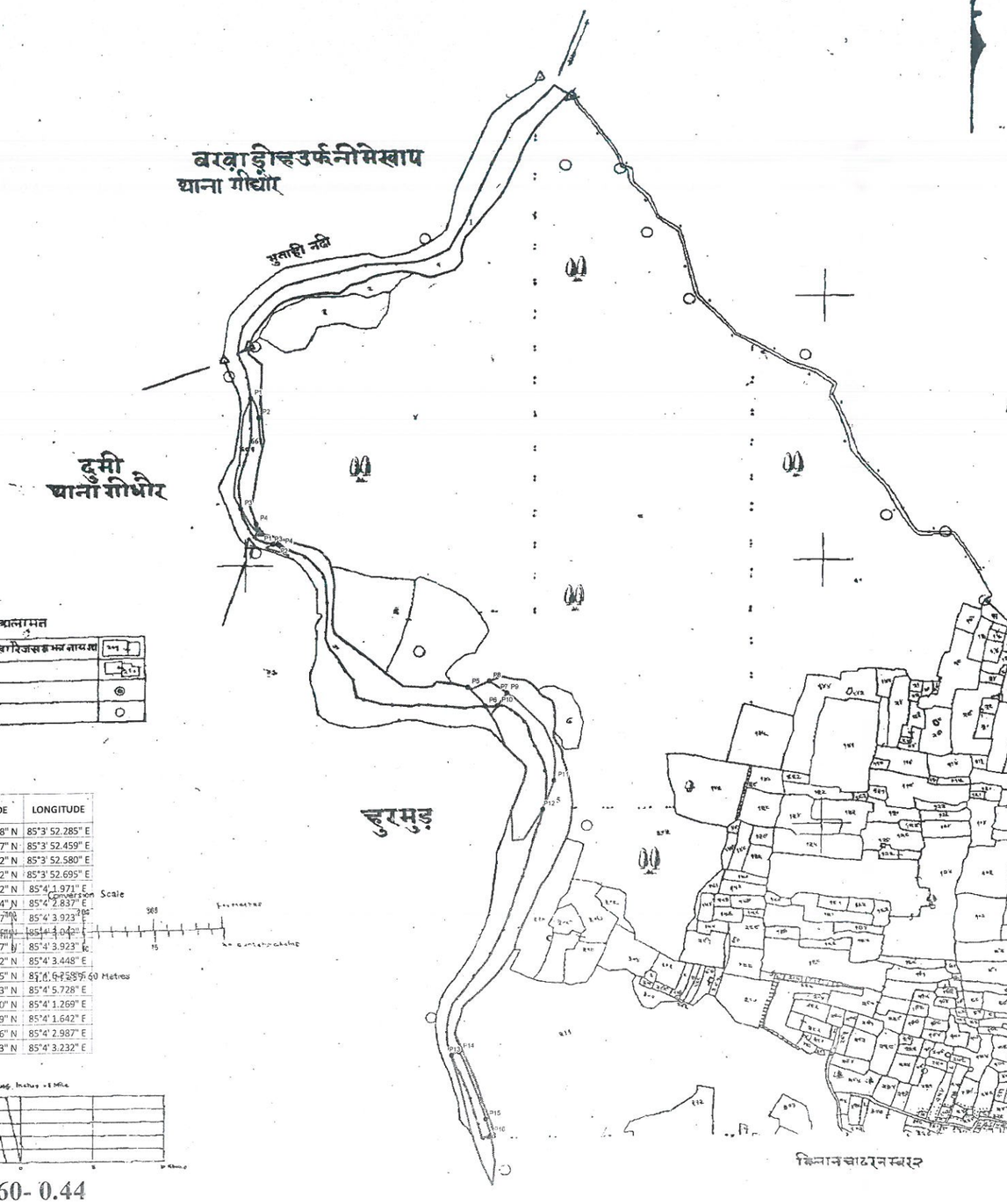
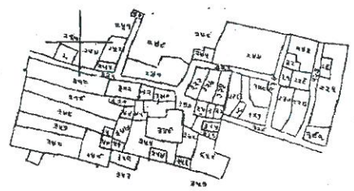




नमूना अलामत

१	यह निशान पर लैनखरीदिजसके भग्नायगा	
२	मकान मै सड़क	
३	पक्का कुंवा	◉
४	कच्चा कुंवा	○

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	303261.5452	2666193.316	24°5' 44.988" N	85°3' 52.285" E
P2	303266.4849	2666195.686	24°5' 45.067" N	85°3' 52.459" E
P3	303269.8595	2666[illegible].409	24°5' 44.962" N	85°3' 52.580" E
P4	303273.0809	2666189.267	24°5' 44.862" N	85°3' 52.695" E
P5	303582.6081	2665969.062	24°5' 37.822" N	85°4' 1.971" E
P6	303586.1171	2665939.572	24°5' 36.874" N	85°4' 2.837" E
P7	303387.0656	2665959.245	24°5' 37.527" N	85°4' 3.923" E
P8	303362.4603	2665977.963	[illegible]	85°4' 3.042" E
P9	303587.0656	2665999.245	24°5' 37.527" N	85°4' 3.923" E
P10	303573.3948	2665939.878	24°5' 36.892" N	85°4' 3.448" E
P11	303651.1614	2665823.82	24°5' 33.155" N	85°4' 5.728" E
P12	303535.5858	2665779.963	24°5' 31.723" N	85°4' 5.728" E
P13	303504.5011	2665406.559	24°5' 19.530" N	85°4' 1.269" E
P14	303515.1056	2665411.33	24°5' 19.689" N	85°4' 1.642" E
P15	303551.6675	2665307.323	24°5' 16.326" N	85°4' 2.987" E
P16	303558.2354	2665282.209	24°5' 15.513" N	85°4' 3.232" E

Conversion Scale
1 inch = 500 Metres

Scale 250 Inches = 1 Mile

Proposed Area in Ha of 60- 0.44
Proposed Area in Ha of 61- 0.02
Proposed Area in Ha of 61A- 0.13
Proposed Area in Ha of 61B- 0.99
Proposed Area in Ha of 62- 0.39

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
SIMARIA	TAPSA	171	1	5	RIVER	8.2449	
SIMARIA	TAPSA	171	1	661	RIVER	1.2707	
SIMARIA	TAPSA	171	1	1	RIVER	3.6566	
				TOTAL AREA		13.1722	

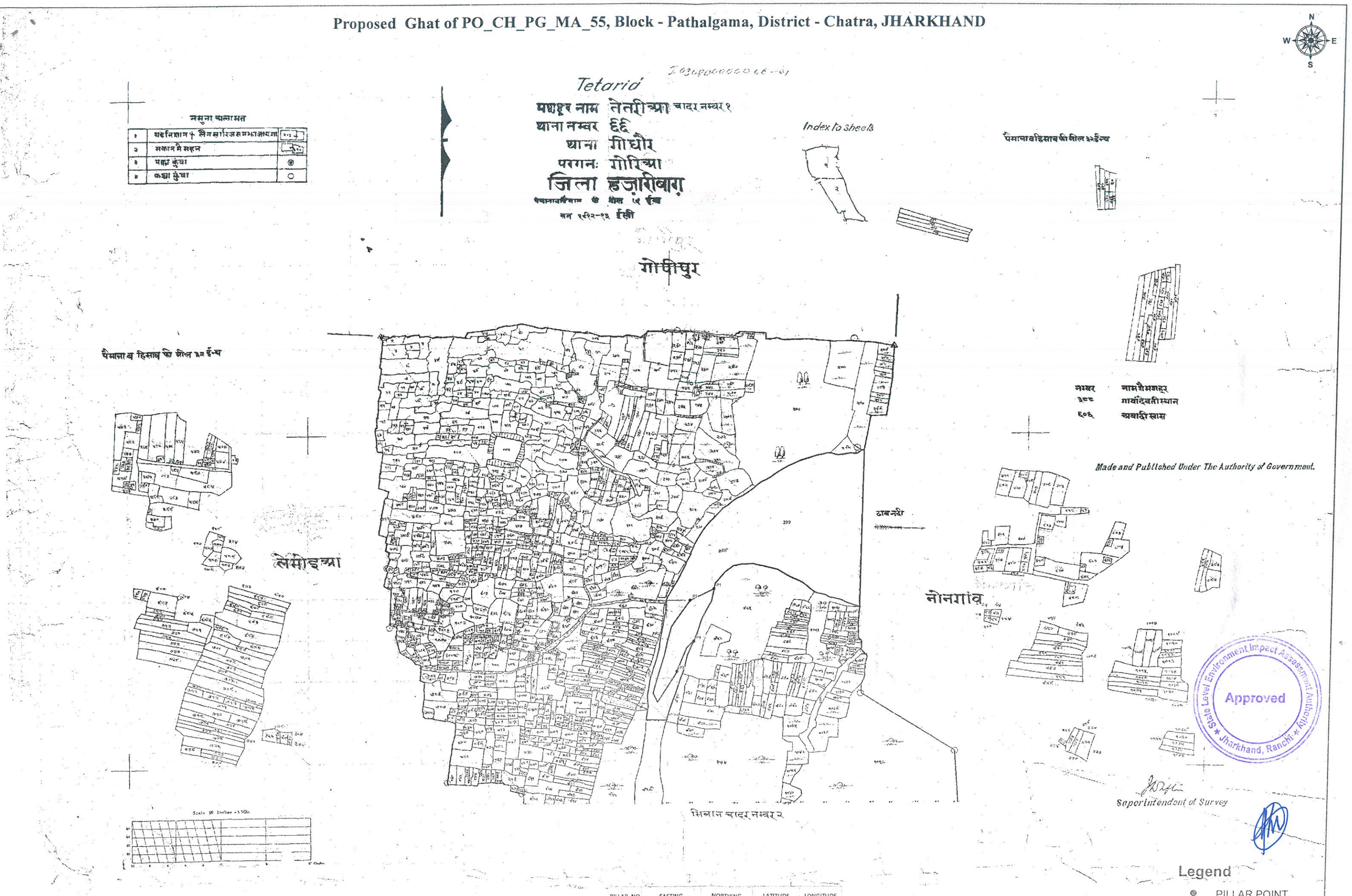
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi

T. M. Bridge.
Superintendent of Survey
22-5-15

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PG_MA_55, Block - Pathalgama, District - Chatra, JHARKHAND

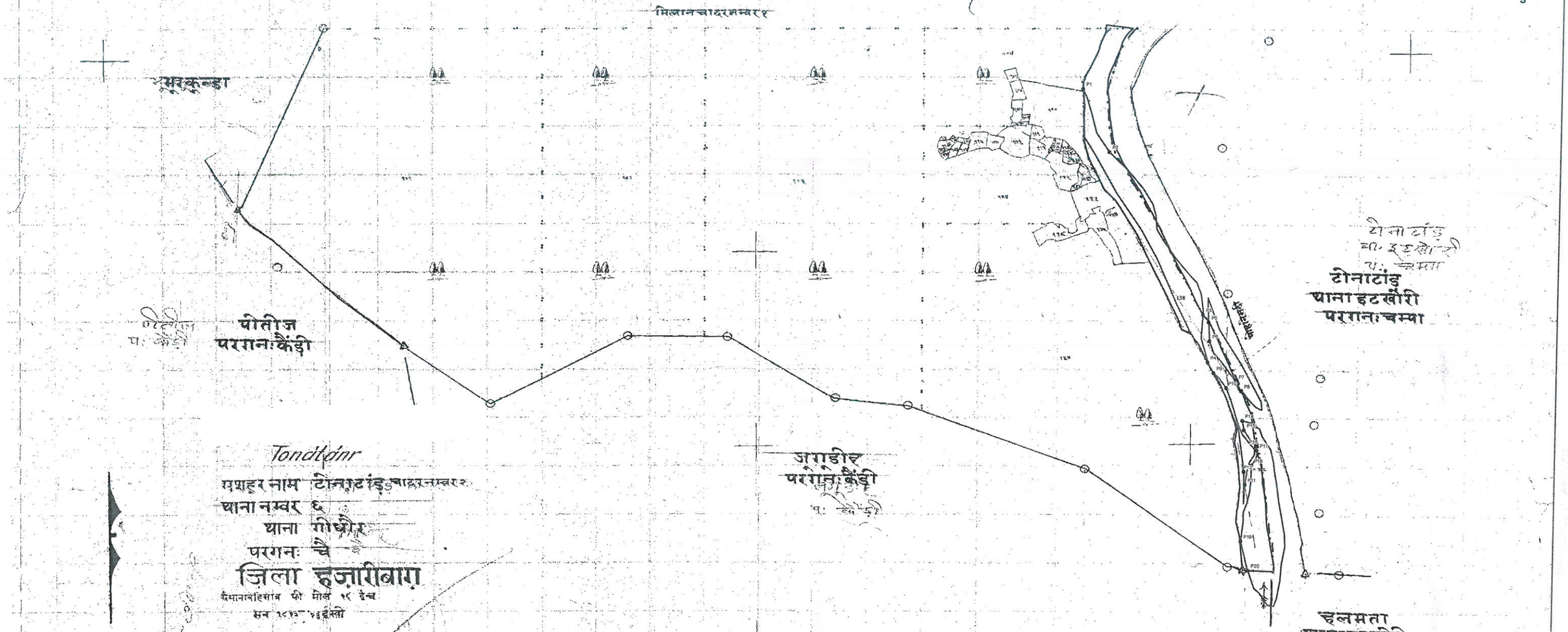


BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
PATHALGAMA	TETARIA	66	1	299	RIVER	29.5566	
				TOTAL AREA		29.5566	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	305286.7226	2668888.459	24°7' 13.477" N	85°5' 2.674" E
P2	305232.8591	2668861.78	24°7' 12.586" N	85°5' 0.779" E
P3	305202.9321	2668687.468	24°7' 6.908" N	85°4' 59.804" E
P4	305240.9403	2668761.239	24°7' 9.322" N	85°5' 1.114" E

Proposed Area in Ha of 55- 1.16

Proposed Ghat of PO_CH_IK_MA_24,24A,24B,24C, Block - Itkhori, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	309575.4424	2684865.48	24°15' 54.581" N	85°7' 26.936" E
P2	309623.9963	2684735.84	24°15' 50.377" N	85°7' 28.719" E
P3	309800.635	2684398.39	24°15' 39.501" N	85°7' 35.141" E
P4	309809.247	2684300.107	24°15' 36.310" N	85°7' 35.493" E
P5	309811.3086	2684382.843	24°15' 39.000" N	85°7' 35.527" E
P6	309812.556	2684344.335	24°15' 37.749" N	85°7' 35.589" E
P7	309862.4002	2684260.362	24°15' 35.042" N	85°7' 37.396" E
P8	309877.611	2684240.418	24°15' 34.398" N	85°7' 37.755" E
P9	309820.5264	2684278.21	24°15' 35.604" N	85°7' 35.903" E
P10	309844.3164	2684246.898	24°15' 34.596" N	85°7' 36.761" E
P11	309879.5656	2684047.057	24°15' 28.117" N	85°7' 38.106" E
P12	309877.2731	2684074.524	24°15' 29.009" N	85°7' 38.012" E
P13	309893.7909	2684171.342	24°15' 32.163" N	85°7' 38.551" E
P14	309874.4603	2684179.013	24°15' 32.403" N	85°7' 37.862" E
P15	309877.7727	2684159.484	24°15' 31.770" N	85°7' 37.989" E
P16	309900.2533	2684126.036	24°15' 30.693" N	85°7' 38.802" E
P17	309902.0077	2684117.668	24°15' 30.422" N	85°7' 38.868" E
P18	309891.6312	2684086.676	24°15' 29.410" N	85°7' 38.515" E
P19	309871.7194	2683930.943	24°15' 24.341" N	85°7' 37.883" E
P20	309885.2661	2683870.801	24°15' 22.392" N	85°7' 38.392" E

Proposed Area in Ha of 24- 1.85
Proposed Area in Ha of 24A- 0.53
Proposed Area in Ha of 24B- 0.21
Proposed Area in Ha of 24C- 1.94

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
ITKHORI	TONATANR	6	2	138	RIVER	13.1024	
				TOTAL AREA		13.1024	

नम्बर	मशहूरनाम
१७१	गुलचाजंगल
१७७	बसरियाजंगल

नमूना चालामत

१	मदनिशान पर लैटराइटसममाजमाना
२	मकाममें नदन
३	पक्का कुंवा
४	कच्चा कुंवा

Scale 10 Inches = 1 Mile

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Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi

Superintendent of Survey

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_IK_MA_22, Block - Itkhori, District - Chatra, JHARKHAND

Tondtánr

मशहूर नाम टोनाटांड़ चादरनम्बर १
थाना नम्बर ६
थाना गिरहोर
परगनः चै
जिला हजारीबाग़
पैमानावहिसाब फी मील १६ इंच
सन १९१२ ई० इंसी

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नम्बर	नाम मशहूर
१	रतबेया जंगल
२०१	बनधारी जंगल

नक्शा में शामिल

१	यहनिशान से नक्शा जिसमें शामिल है	
२	मकान मै सटल	
३	पक्का कुंवा	◉
४	कच्चा कुंवा	○

Scale 16 Inches = 1 Mile.

सिहार सर्वेक्षण कार्यालय, पटना- ७ में मुद्रित

पिरचीपूर
परगनः केंड़ी

भूरकुन्डा

नगवा
थानाइटखोरी
परगनः चम्पा

टोनाटांड़
थानाइटखोरी
परगनः चम्पा

मिलानचादरनम्बर१

गोहाने नदी

Superintendent of Survey

Conversion Scale.

R.F.: 1:

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State Level Environment Impact Assessment Authority
Jharkhand, Ranchi

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
ITKHORI	TONATANR	6	1	98	RIVER	13.886	
				TOTAL AREA		13.886	

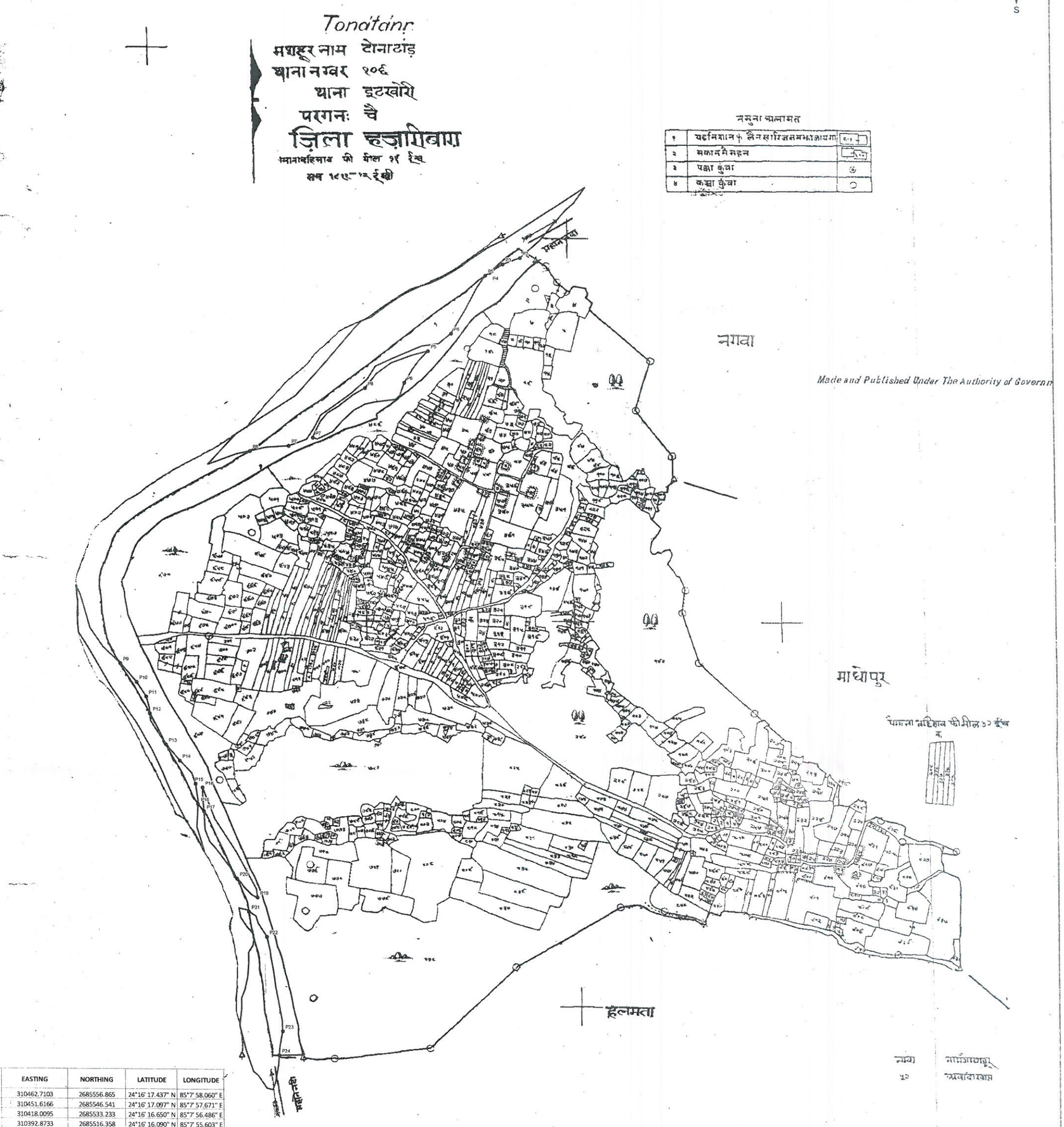
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	310428.3497	2685589.743	24°16' 18.491" N	85°7' 56.826" E
P2	310383.3606	2685509.971	24°16' 15.879" N	85°7' 55.269" E
P3	309892.4208	2685180.859	24°16' 4.959" N	85°7' 38.022" E
P4	310141.1792	2685416.429	24°16' 12.733" N	85°7' 46.728" E

Proposed Area in Ha of 22- 6.00

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_IK_MA_22,22A,24,24A,24C Block -Itkhori, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	310462.7103	2685556.865	24°16' 17.437" N	85°7' 58.060" E
P2	310451.6166	2685546.541	24°16' 17.097" N	85°7' 57.671" E
P3	310418.0095	2685533.233	24°16' 16.650" N	85°7' 56.486" E
P4	310392.8733	2685516.358	24°16' 16.090" N	85°7' 55.603" E
P5	310383.3606	2685509.971	24°16' 15.879" N	85°7' 55.269" E
P6	310314.9255	2685388.141	24°16' 11.890" N	85°7' 52.901" E
P7	309993.869	2685154.122	24°16' 4.144" N	85°7' 41.631" E
P8	309918.5303	2685144.451	24°16' 3.797" N	85°7' 38.965" E
P9	309657.3877	2684699.078	24°15' 49.210" N	85°7' 29.920" E
P10	309687.5825	2684659.322	24°15' 47.931" N	85°7' 31.009" E
P11	309705.5794	2684627.977	24°15' 46.920" N	85°7' 31.662" E
P12	309712.1809	2684591.977	24°15' 45.753" N	85°7' 31.913" E
P13	309741.5381	2684526.017	24°15' 43.622" N	85°7' 32.985" E
P14	309766.6987	2684491.803	24°15' 42.521" N	85°7' 33.893" E
P15	309796.9818	2684441.485	24°15' 40.899" N	85°7' 34.991" E
P16	309800.635	2684398.39	24°15' 39.501" N	85°7' 35.141" E
P17	309811.3086	2684382.843	24°15' 39.000" N	85°7' 35.527" E
P18	309809.9778	2684433.606	24°15' 40.649" N	85°7' 35.455" E
P19	309911.201	2684201.079	24°15' 33.137" N	85°7' 39.154" E
P20	309872.2611	2684240.418	24°15' 34.398" N	85°7' 37.755" E
P21	309893.7909	2684171.342	24°15' 32.163" N	85°7' 38.551" E
P22	309927.367	2684118.722	24°15' 30.467" N	85°7' 39.766" E
P23	309954.1622	2683919.047	24°15' 23.990" N	85°7' 40.811" E
P24	309946.739	2683867.866	24°15' 22.323" N	85°7' 40.572" E
P5	310269.5032	2685351.734	24°16' 10.687" N	85°7' 51.308" E
P6	310221.9248	2685284.827	24°16' 8.491" N	85°7' 49.653" E
P7	310040.8245	2685171.244	24°16' 4.721" N	85°7' 43.287" E
P8	310145.2645	2685274.303	24°16' 8.116" N	85°7' 46.940" E

Scale 10" = 1 Mile

Superintendent of Survey.

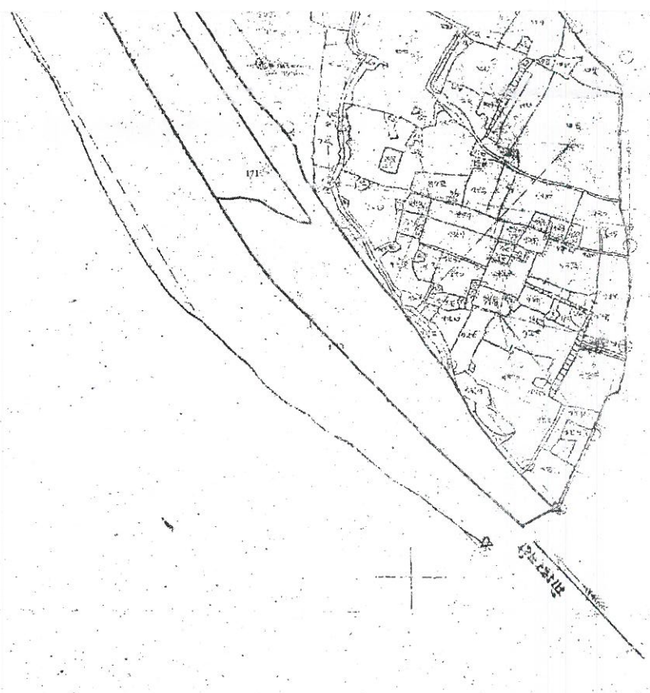
State Level Environment Impact Assessment Authority, Jharkhand, Ranchi — Approved

Proposed Area in Ha of 22- 6.00
Proposed Area in Ha of 22A- 0.95
Proposed Area in Ha of 24- 1.85
Proposed Area in Ha of 24A- 0.53
Proposed Area in Ha of 24C- 1.94

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
ITKHORI	TONATAUR	106	1	1	RIVER	28.1014	
				TOTAL AREA		28.1014	

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Morhar River





BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratappur	Bajrahi	45	1	171	River	23.9136	
Pratappur	Bajrahi	45	1	1	River	12.5425	
				TOTAL AREA		36.4561	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	249272.2447	2695786.528	24°21' 18.805" N	84°31' 42.884" E
P2	249315.5528	2695754.195	24°21' 17.778" N	84°31' 44.440" E
P3	248954.7053	2695364.818	24°21' 4.920" N	84°31' 31.891" E
P4	248898.0275	2695359.704	24°21' 4.721" N	84°31' 29.884" E
P5	248845.6421	2695187.565	24°20' 59.099" N	84°31' 28.136" E
P6	248929.3978	2695189.742	24°20' 59.218" N	84°31' 31.104" E
P7	249162.712	2694712.415	24°20' 43.848" N	84°31' 39.678" E
P8	249047.0933	2694747.907	24°20' 44.934" N	84°31' 35.556" E

Proposed Area in Ha of 45- 1.01

Jharkhand State Level Environment Impact Assessment Authority Ranchi

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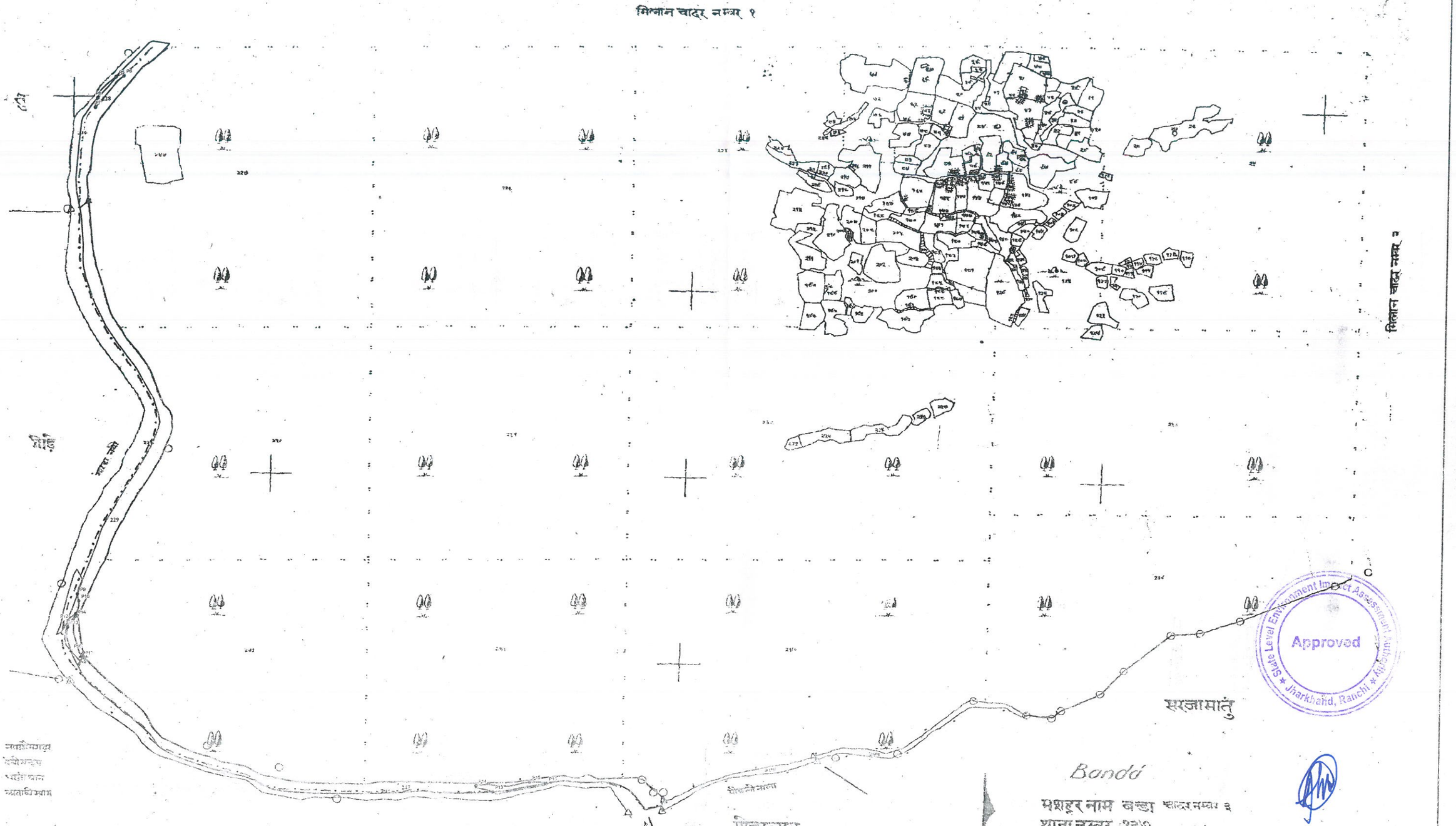
Superintendent of Survey

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_74A,74B,74C,74D, Block -Pratappur,District - Chatra, JHARKHAND



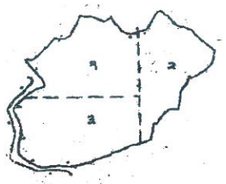
Proposed Area in Ha of 74A- 0.09
Proposed Area in Ha of 74B- 0.24
Proposed Area in Ha of 74C- 0.14
Proposed Area in Ha of 74D- 0.15

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P5	253004.0799	2682841.035	24°14'14.260" N	84°34'25.353" E
P6	253010.124	2682643.187	24°14'8.838" N	84°34'25.897" E
P7	253030.0571	2682577.808	24°14'12.180" N	84°34'26.934" E
P8	253030.0571	2682577.808	24°14'12.180" N	84°34'26.934" E
P5	253004.0799	2683177.851	24°14'31.864" N	84°34'45.508" E
P9	253020.6004	2683537.902	24°14'43.637" N	84°34'46.024" E
P10	253567.0071	2683592.057	24°14'45.379" N	84°34'22.703" E
P11	253624.1438	2683404.934	24°14'39.266" N	84°34'20.407" E
P12	253508.1639	2683460.862	24°14'41.105" N	84°34'21.946" E
P13	253557.1002	2683407.253	24°14'39.360" N	84°34'21.619" E
P14	253719.0681	2683409.334	24°14'39.430" N	84°34'22.458" E
P15	253585.5718	2683400.117	24°14'39.127" N	84°34'22.959" E
P16	253553.0217	2683415.886	24°14'39.640" N	84°34'24.156" E
P17	253583.1332	2683080.07	24°14'28.747" N	84°34'23.686" E
P18	253809.2057	2683100.491	24°14'29.557" N	84°34'30.528" E
P19	254415.2403	2683214.723	24°14'33.497" N	84°34'54.301" E
P20	254412.8969	2683100.157	24°14'29.797" N	84°34'55.459" E

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratappur	Banda	137	3	243	River	6.6613	
Pratappur	Banda	137	3	229	River	8.7869	
Pratappur	Banda	137	3	228	River	8.7869	
				TOTAL AREA		24.2351	

Proposed Ghat of PO_CH_PR_MH_73, Block -Pratappur,District - Chatra, JHARKHAND

Index to Sheets



Banda

मशहूर नाम बन्डा चादर नम्बर १
थाना नम्बर १३७
थाना प्रतापपुर
परगनः कुन्डा
जिला हजारीबाग़
पैमानाजरीबाना से मील ८ इंच
सन १९९२-९२ ईसवी

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नमूना चतुर्भुज

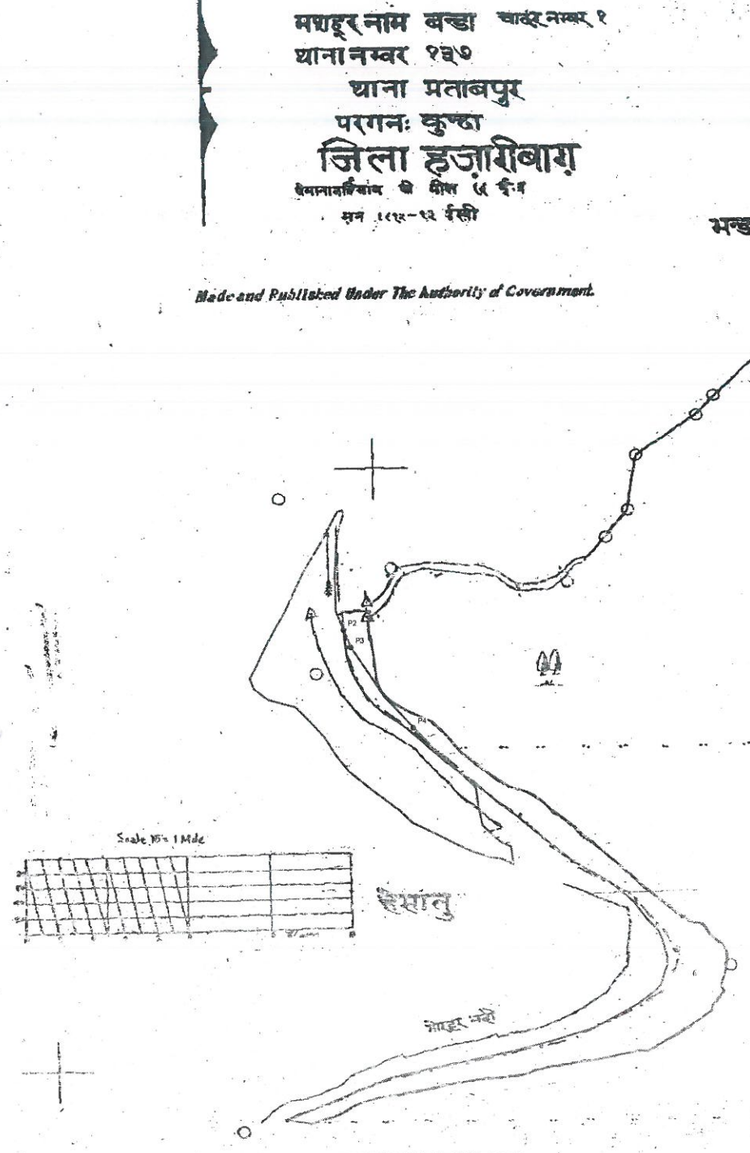
1	सड़क/मार्ग + रेल स्टेशन/हवाईअड्डा/हवाईपट्टी	
2	मकान/मंदिर	
3	पक्का कुंवा	⊕
4	कच्चा कुंवा	○

N
W E
S

बन्डातार

भन्डार

चिरमातकुम



मिलान चादर नम्बर २

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratappur	Banda	137	1	6	River	10.1992	
				TOTAL AREA		10.1992	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	253588.1727	2682597.712	24°14' 12.830" N	84°34' 24.082" E
P2	253782.579	2683371.876	24°14' 38.039" N	84°34' 30.492" E
P3	253791.379	2683348.15	24°14' 37.323" N	84°34' 30.819" E
P4	253866.5133	2683238.522	24°14' 33.804" N	84°34' 33.548" E

Proposed Area in Ha of 73- 4.12

State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi

T.M. Bridge
Superintendent of Survey

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_33, Block -Pratappur,District - Chatra, JHARKHAND



Bansi
मशहूर नाम बनसी
थाना नम्बर ६६
थाना प्रतापपुर
परगनः कुन्दा
जिला हजारीबाग़
पैमानाजरीबाना पी मील १८ इंच
सन १८९२-९३ ईस्वी

१	मंदिर या मस्जिद के लिये जरीब से नापा जाएगा	
२	मकान के लिये	
३	पक्का कुवां	०
४	कच्चा कुवां	०

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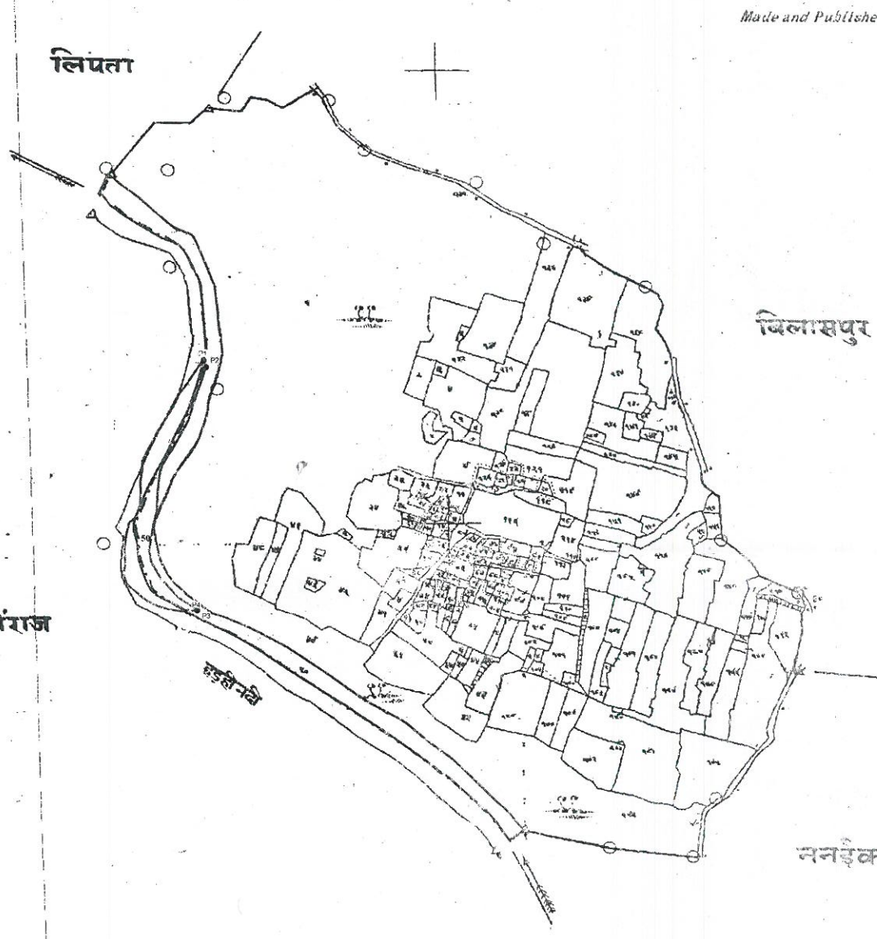
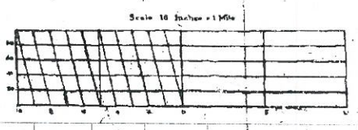
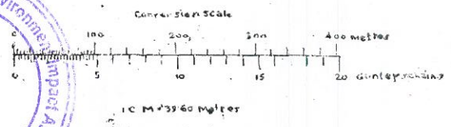








T. W. Bridge
Superintendent of Survey

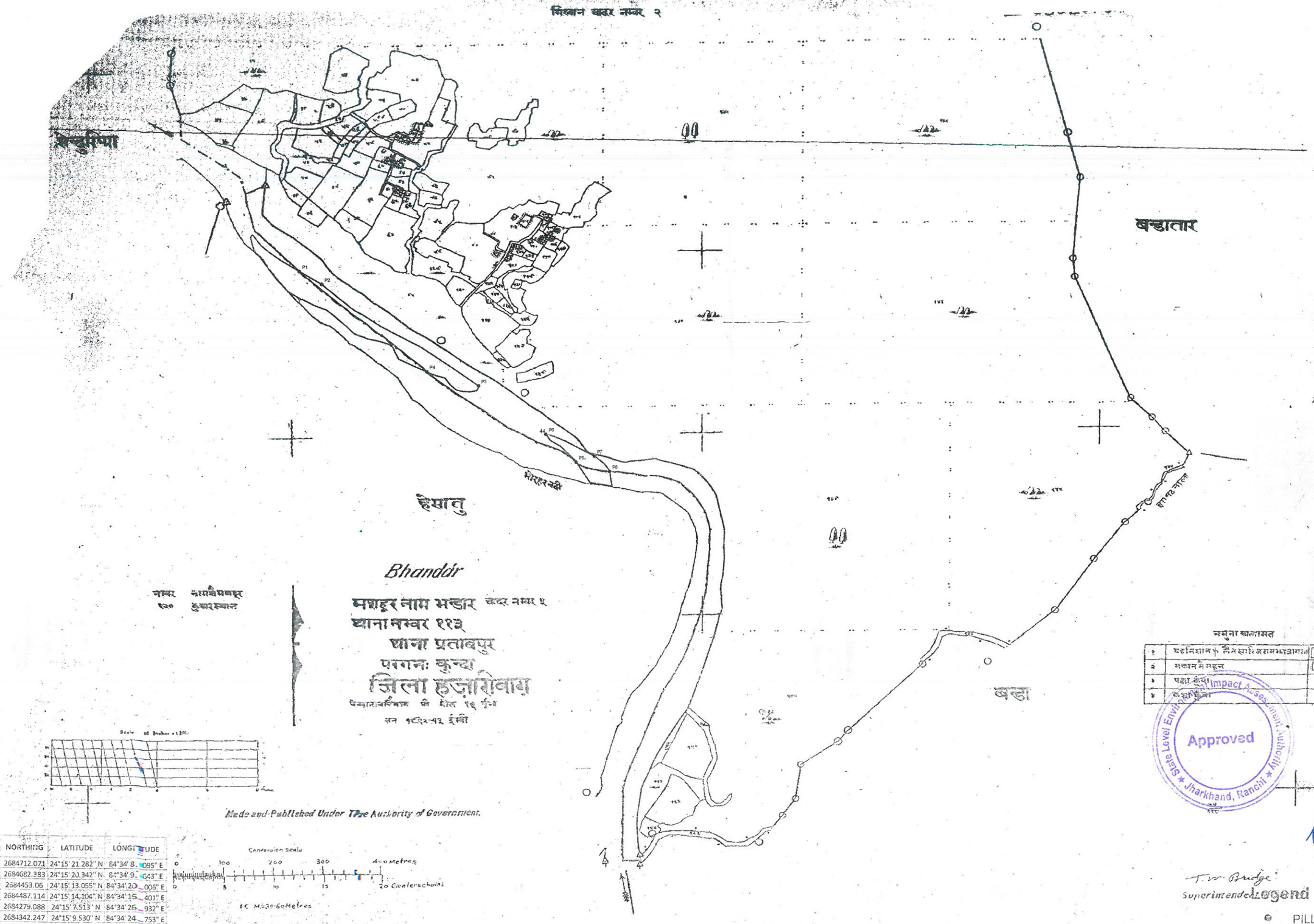
BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratappur	Bansi	66	1	50	River	6.3035	
					TOTAL AREA	6.3035	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	254485.1002	2692621.008	24°19' 38.952" N	84°34' 49.687" E
P2	254487.3873	2692611.509	24°19' 38.644" N	84°34' 49.774" E
P3	254467.9234	2692285.751	24°19' 28.051" N	84°34' 49.285" E
P4	254455.8369	2692284.539	24°19' 28.005" N	84°34' 48.858" E

Proposed Area in Ha of 33- 0.94

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_70,71, Block -Pratappur,District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	253173.7899	2684712.071	24°15' 21.282" N	84°34' 8.095" E
P2	253216.9559	2684682.383	24°15' 20.342" N	84°34' 9.643" E
P3	253505.4354	2684453.06	24°15' 13.055" N	84°34' 20.008" E
P4	253404.2764	2684487.114	24°15' 14.104" N	84°34' 15.401" E
P5	253697.873	2684279.088	24°15' 7.513" N	84°34' 26.932" E
P6	253637.4792	2684342.247	24°15' 9.530" N	84°34' 24.753" E
P7	253734.0519	2684291.627	24°15' 7.941" N	84°34' 28.236" E
P8	253765.1986	2684257.123	24°15' 6.837" N	84°34' 29.331" E

Proposed Area in Ha of 70- 1.89
Proposed Area in Ha of 71- 0.46

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_In_ACRE	REMARKS
Pratappur	Bhandar	113	3	44	River	21.1905	
				TOTAL AREA		21.1906	

नमूना खतामत

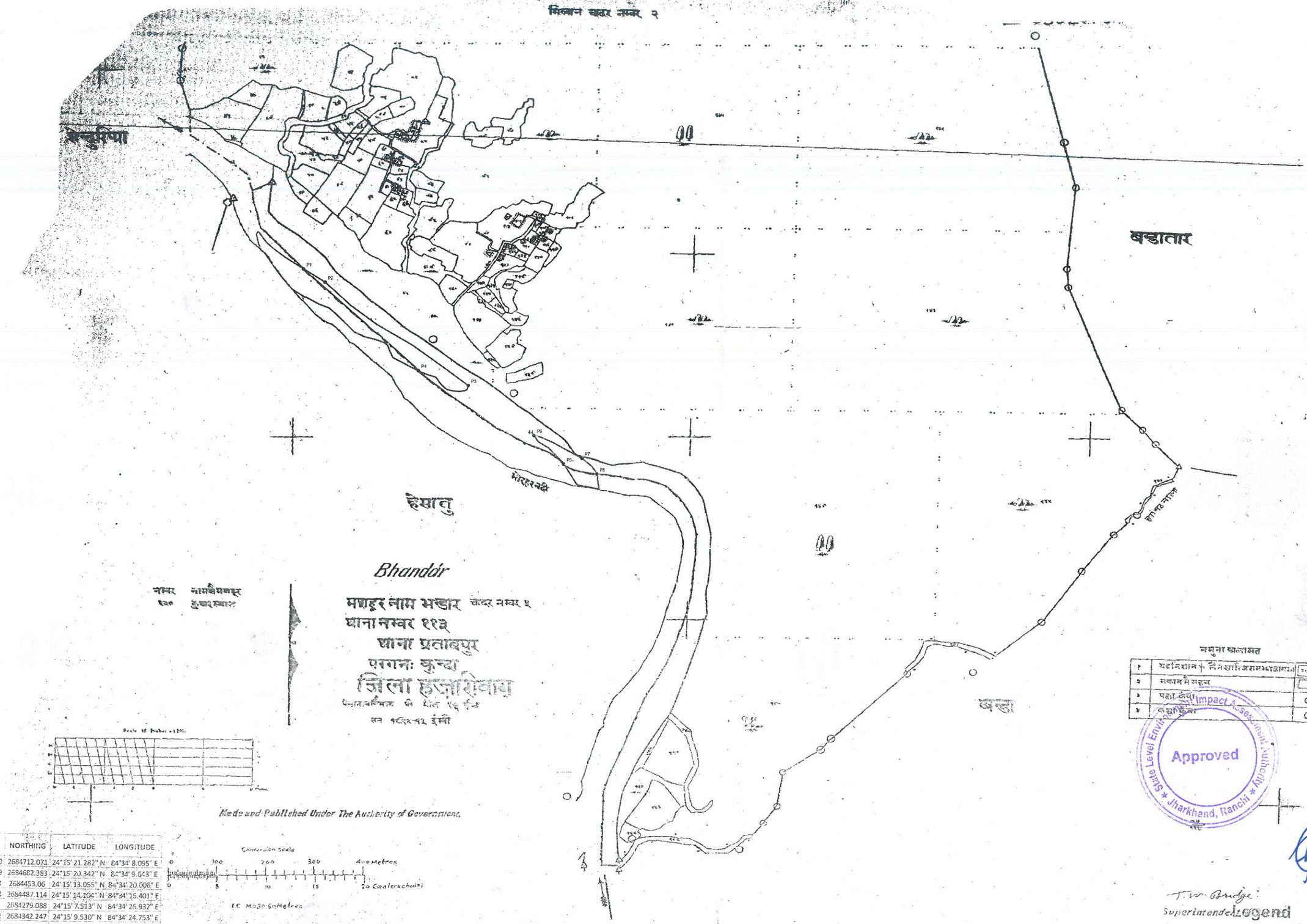
१	महनिशान पर नैऋत्य जरामभाग्यामा	३०'
२	मकान में महन	५५'
३	पक्का कुंवा	⊙
४	कच्चा कुंवा	○

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★ Approved

T.W. Bridge
Superintendent

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_70,71, Block -Pratappur,District - Chatra, JHARKHAND



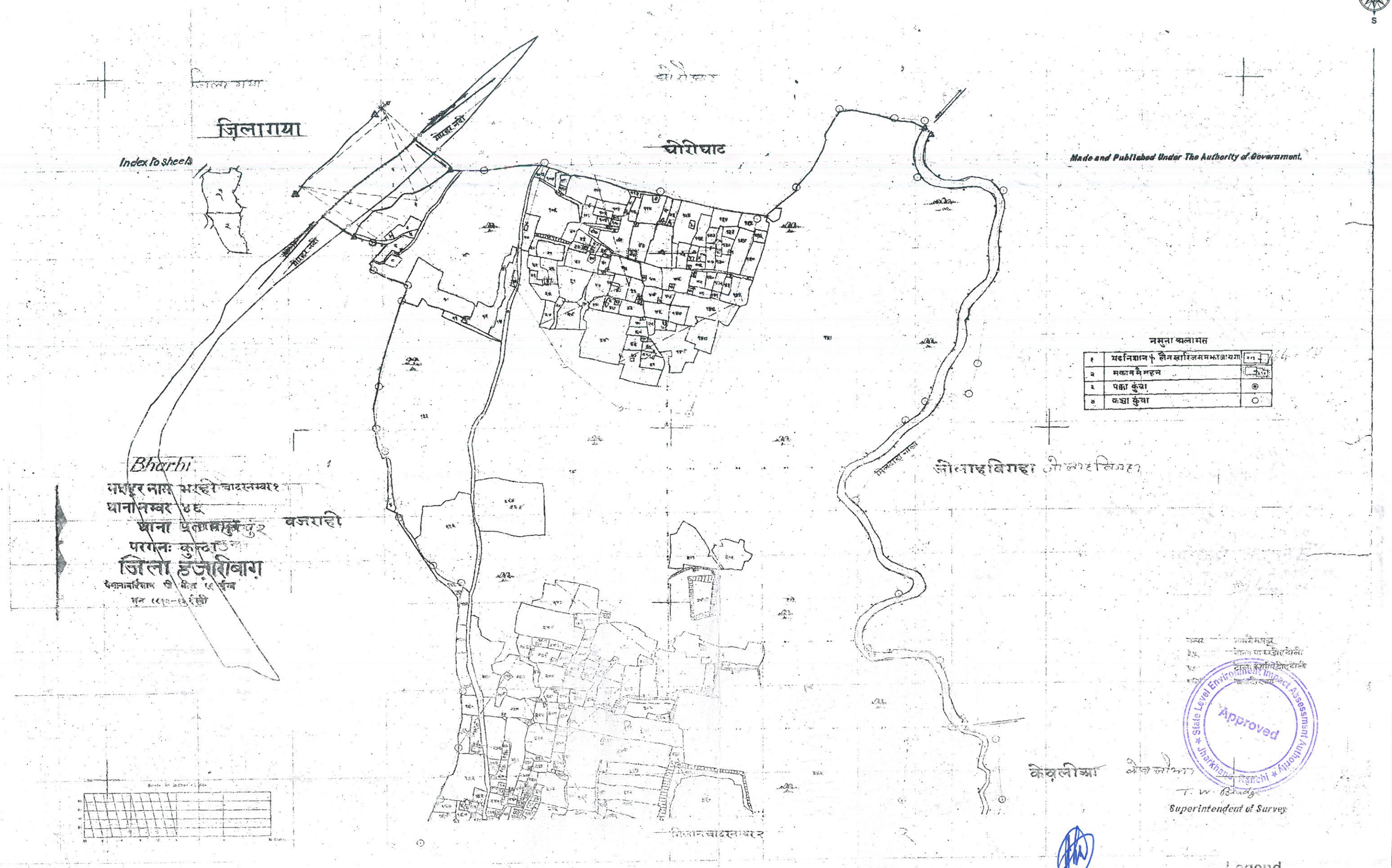
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	253173.7899	2684712.071	24°15' 21.282" N	84°34' 8.095" E
P2	253216.9559	2684682.383	24°15' 20.342" N	84°34' 9.643" E
P3	253505.4354	2684453.06	24°15' 13.055" N	84°34' 20.006" E
P4	253404.2764	2684487.114	24°15' 14.106" N	84°34' 15.401" E
P5	253697.873	2684279.088	24°15' 7.513" N	84°34' 26.932" E
P6	253637.4792	2684342.247	24°15' 9.530" N	84°34' 24.753" E
P7	253734.0519	2684291.627	24°15' 7.941" N	84°34' 28.234" E
P8	253765.1936	2684257.123	24°15' 6.837" N	84°34' 29.331" E

Proposed Area in Ha of 70- 1.89

Proposed Area in Ha of 71- 0.46

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratappur	Bhandar	113	3	44	River	21.1905	
				TOTAL AREA		21.1905	

Proposed Ghat of PO_CH_PR_MH_45, Block -Pratappur,District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	249469.5059	2695959.324	24°21' 24.380" N	84°31' 49.770" E
P2	249509.118	2695926.234	24°21' 23.478" N	84°31' 51.195" E
P3	249315.5528	2695754.195	24°21' 17.778" N	84°31' 44.440" E
P4	249272.2447	2695786.528	24°21' 18.803" N	84°31' 42.884" E

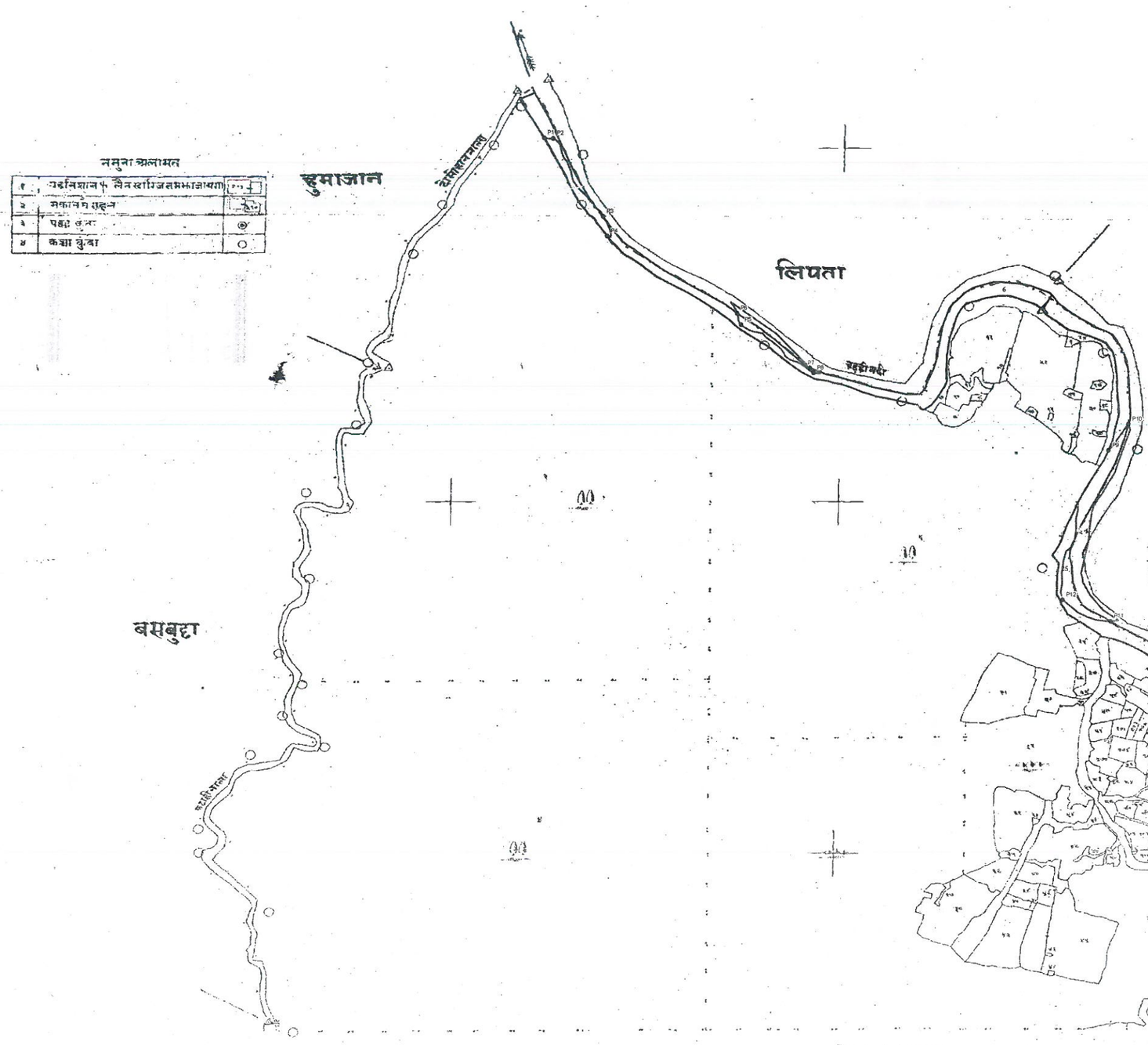
Proposed Area in Ha of 45- 1.01

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_IN_ACRE	REMARKS
Pratappur	Bharhi	45	1	1	River	5.4683	
				TOTAL AREA		5.4683	

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_26-27,29,33, Block -Pratappur,District - Chatra, JHARKHAND



Bhaunraj

मशहूर नाम भौंराज चादरनम्बर१

थाना नम्बर ६८

थाना प्रतापपुर

परगनः कुन्दा

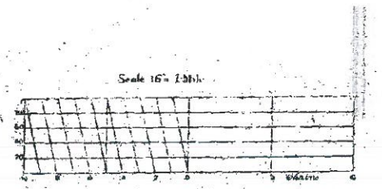
जिला हजारीबाग़

पैमानाबाईसाम फी मील १५ फूट

सन १८५२-५३ ईसवी

Index to Sheets





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नम्बर	नामजमामकर
१	सुमेरा जंगल
५१	दुसधाबिरा जंगल
६८	आबादी खास
१४३	देवी मन्दप
२६९	बेंड़ीथान



T. M. Bruce
Superintendent of Survey

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_In_ACRE	REMARKS
Pratapour	Bhaunraj	68	1	25	River	6.3556	
Pratapour	Bhaunraj	68	1	6	River	4.9966	
				TOTAL AREA		11.3522	

Proposed Area in Ha of 26_27- 0.24

Proposed Area in Ha of 29- 0.22

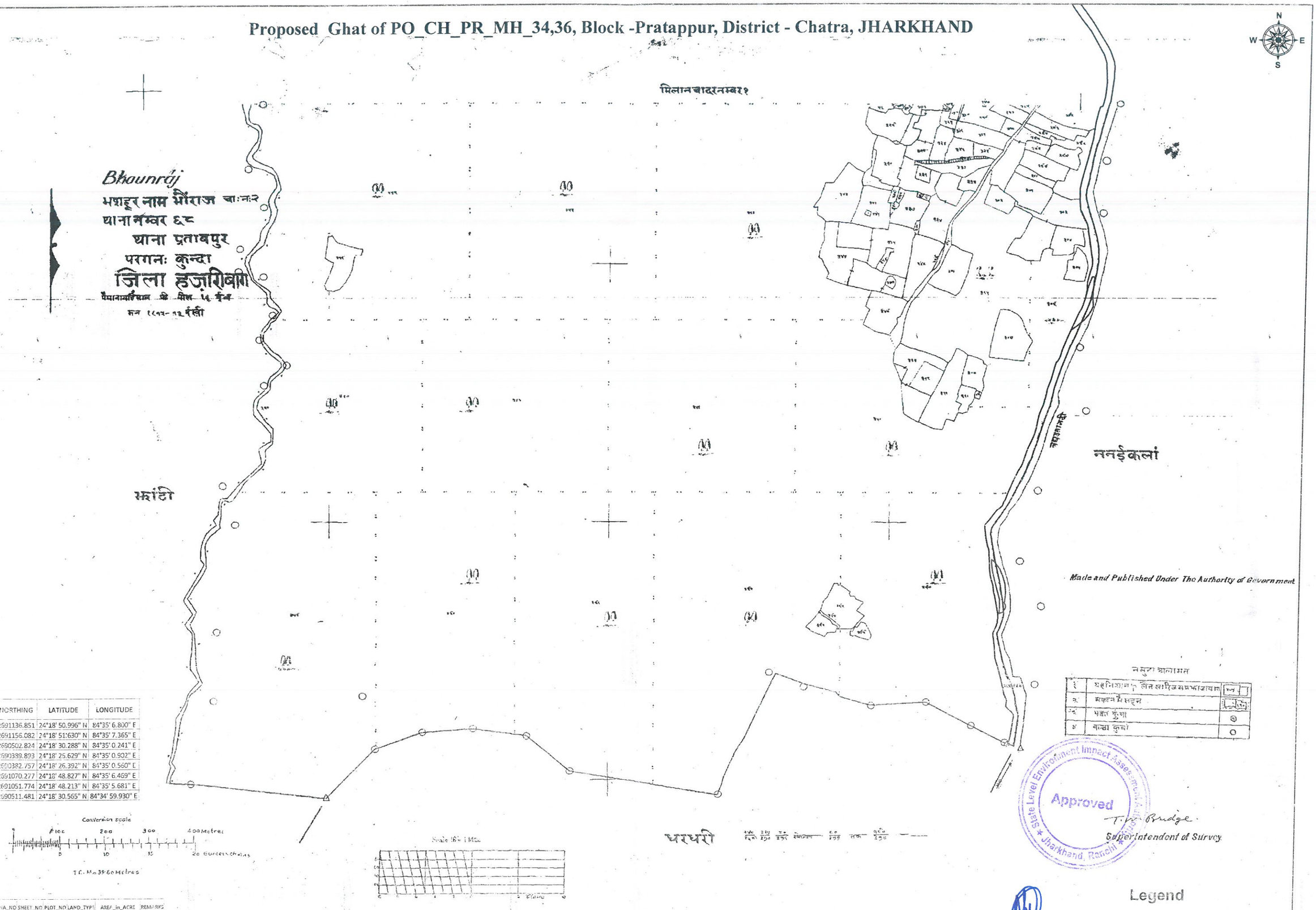
Proposed Area in Ha of 33--0.94

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	253577.0547	2693129.248	24°19' 54.948" N	84°34' 17.180" E
P2	253590.6333	2693128.08	24°19' 54.917" N	84°34' 17.662" E
P3	253667.0049	2692993.527	24°19' 50.590" N	84°34' 20.453" E
P4	253673.6198	2692959.666	24°19' 49.494" N	84°34' 20.708" E
P5	253851.3768	2692803.5	24°19' 44.538" N	84°34' 28.171" E
P6	253875.1079	2692823.119	24°19' 45.172" N	84°34' 27.936" E
P7	253988.8736	2692726.519	24°19' 42.098" N	84°34' 32.030" E
P8	253994.2581	2692718.453	24°19' 41.839" N	84°34' 32.225" E

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_34,36, Block -Pratappur, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P13	254942.0057	2691136.851	24°18' 50.996" N	84°35' 6.800" E
P14	254958.2307	2691156.082	24°18' 51.630" N	84°35' 7.365" E
P15	254745.9667	2690502.824	24°18' 30.288" N	84°35' 0.241" E
P16	254752.6508	2690389.893	24°18' 25.629" N	84°35' 0.902" E
P17	254752.8609	2690382.757	24°18' 26.392" N	84°35' 0.560" E
P18	254931.5081	2691070.277	24°18' 48.827" N	84°35' 6.469" E
P19	254908.965	2691051.774	24°18' 48.213" N	84°35' 5.681" E
P20	254737.3456	2690511.481	24°18' 30.565" N	84°34' 59.930" E

Conversion scale

1 C. Ma 3960 Metres

Scale 16" 1 Mile

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratappur	Bhaunrai	68	2	368	River	7.7224	
			TOTAL AREA			7.7224	

Proposed Area in Ha of 34- 0.19

Proposed Area in Ha of 36--0.19

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नमूना आलामत

१	मकानमैसून	
२	पक्का कुआ	⊙
३	कच्चा कुवां	○

State Level Environment Impact Assessment Authority Jharkhand, Ranchi

Approved

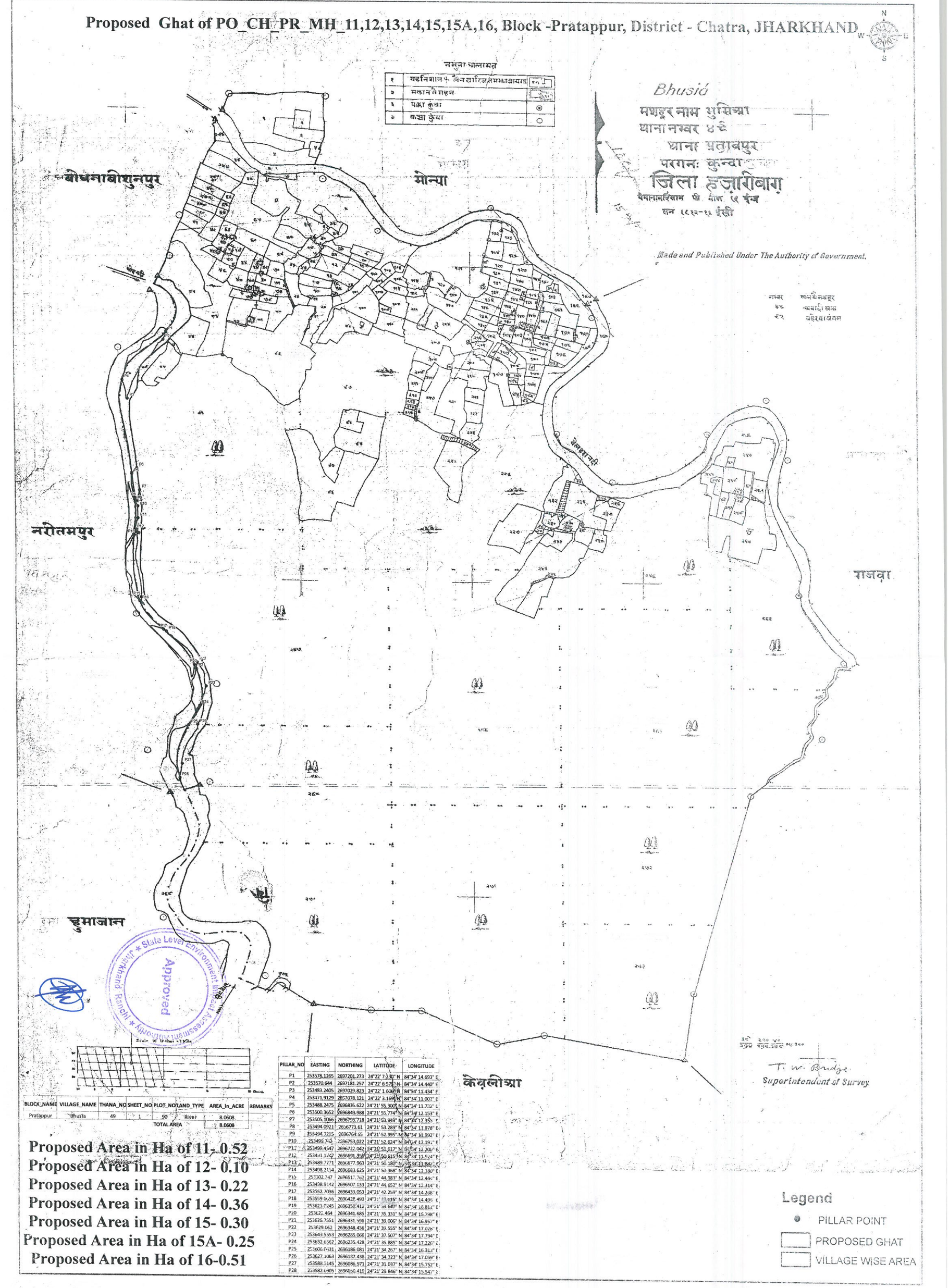
T. P. Bridge

Superintendent of Survey

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_11,12,13,14,15,15A,16, Block -Pratappur, District - Chatra, JHARKHAND



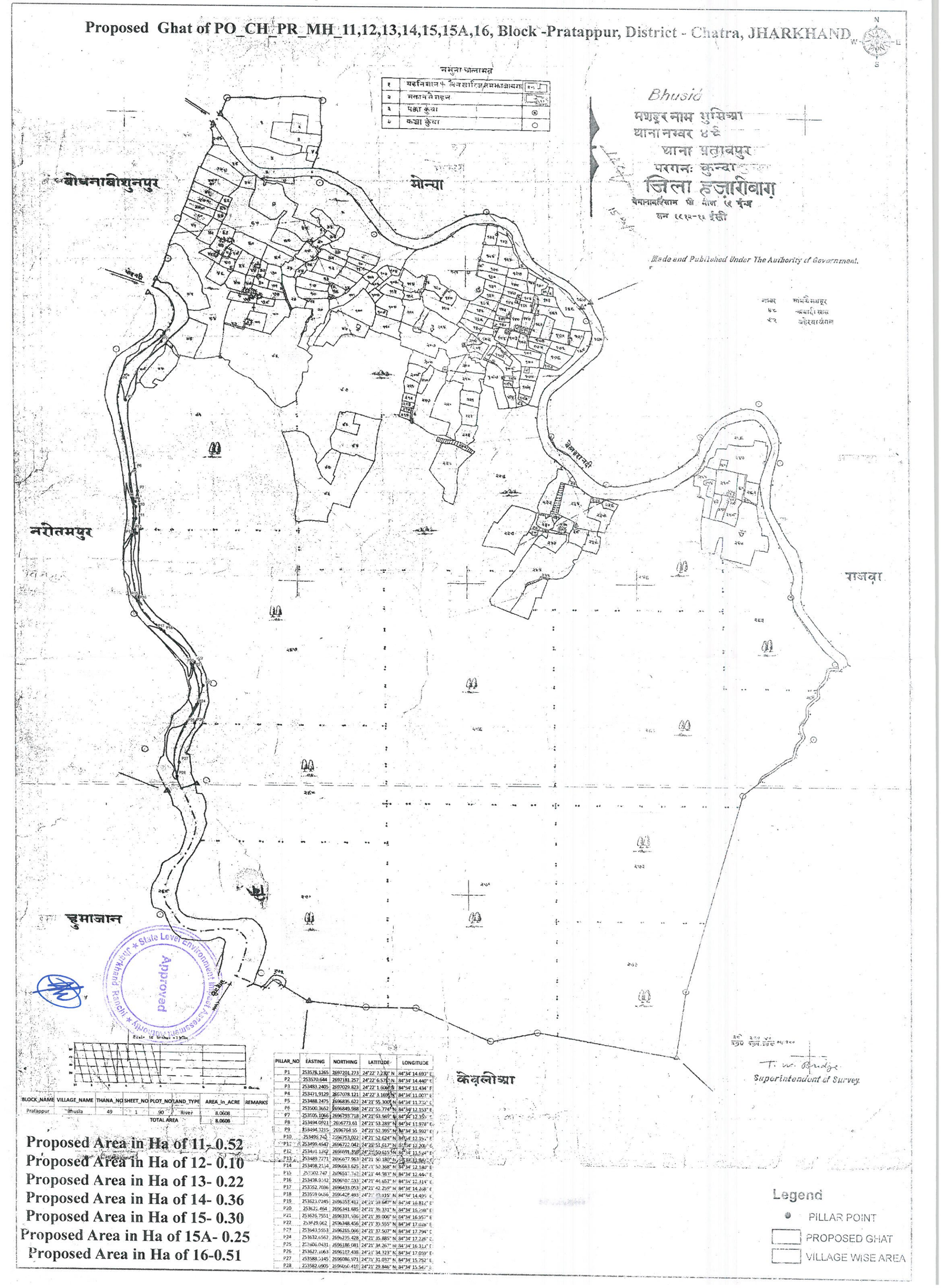
BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_In_ACRE	REMARKS
Pratappur	Bhusia	49	1	90	River	8.0608	
				TOTAL AREA		8.0608	

Proposed Area in Ha of 11- 0.52
Proposed Area in Ha of 12- 0.10
Proposed Area in Ha of 13- 0.22
Proposed Area in Ha of 14- 0.36
Proposed Area in Ha of 15- 0.30
Proposed Area in Ha of 15A- 0.25
Proposed Area in Ha of 16-0.51

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	253578.1265	2697201.273	24°22' 7.230" N	84°34' 14.693" E
P2	253570.644	2697181.257	24°22' 6.572" N	84°34' 14.440" E
P3	253483.2405	2697029.823	24°22' 1.606" N	84°34' 11.434" E
P4	253471.9129	2697078.121	24°22' 3.169" N	84°34' 11.003" E
P5	253488.2475	2696835.622	24°21' 55.300" N	84°34' 11.732" E
P6	253500.3652	2696849.988	24°21' 55.774" N	84°34' 12.153" E
P7	253505.1066	2696793.718	24°21' 53.949" N	84°34' 12.325" E
P8	253494.0921	2696773.61	24°21' 53.289" N	84°34' 11.978" E
P9	253494.3215	2696764.55	24°21' 52.995" N	84°34' 11.992" E
P10	253499.742	2696753.022	24°21' 52.624" N	84°34' 12.191" E
P11	253499.4647	2696722.042	24°21' 51.617" N	84°34' 12.200" E
P12	253491.1142	2696691.358	24°21' 50.615" N	84°34' 11.924" E
P13	253489.7771	2696677.963	24°21' 50.180" N	84°34' 11.880" E
P14	253408.2134	2696683.625	24°21' 50.368" N	84°34' 12.180" E
P15	253302.747	2696617.762	24°21' 44.983" N	84°34' 12.446" E
P16	253438.9142	2696607.633	24°21' 44.652" N	84°34' 12.314" E
P17	253562.7036	2696433.053	24°21' 42.259" N	84°34' 14.268" E
P18	253559.0656	2696428.493	24°21' 42.115" N	84°34' 14.496" E
P19	253623.0245	2696351.412	24°21' 39.647" N	84°34' 16.812" E
P20	253622.464	2696341.685	24°21' 39.331" N	84°34' 15.798" E
P21	253626.7551	2696331.596	24°21' 39.006" N	84°34' 16.957" E
P22	253629.062	2696348.456	24°21' 39.555" N	84°34' 17.028" E
P23	253649.5553	2696285.066	24°21' 37.507" N	84°34' 17.794" E
P24	253632.6562	2696235.428	24°21' 35.885" N	84°34' 17.226" E
P25	253606.0431	2696186.081	24°21' 34.267" N	84°34' 16.315" E
P26	253627.1063	2696187.438	24°21' 34.323" N	84°34' 17.059" E
P27	253588.5145	2696086.971	24°21' 31.037" N	84°34' 15.752" E
P28	253582.0905	2696050.419	24°21' 29.846" N	84°34' 15.547" E

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_11,12,13,14,15,15A,16, Block -Pratappur, District - Chatra, JHARKHAND



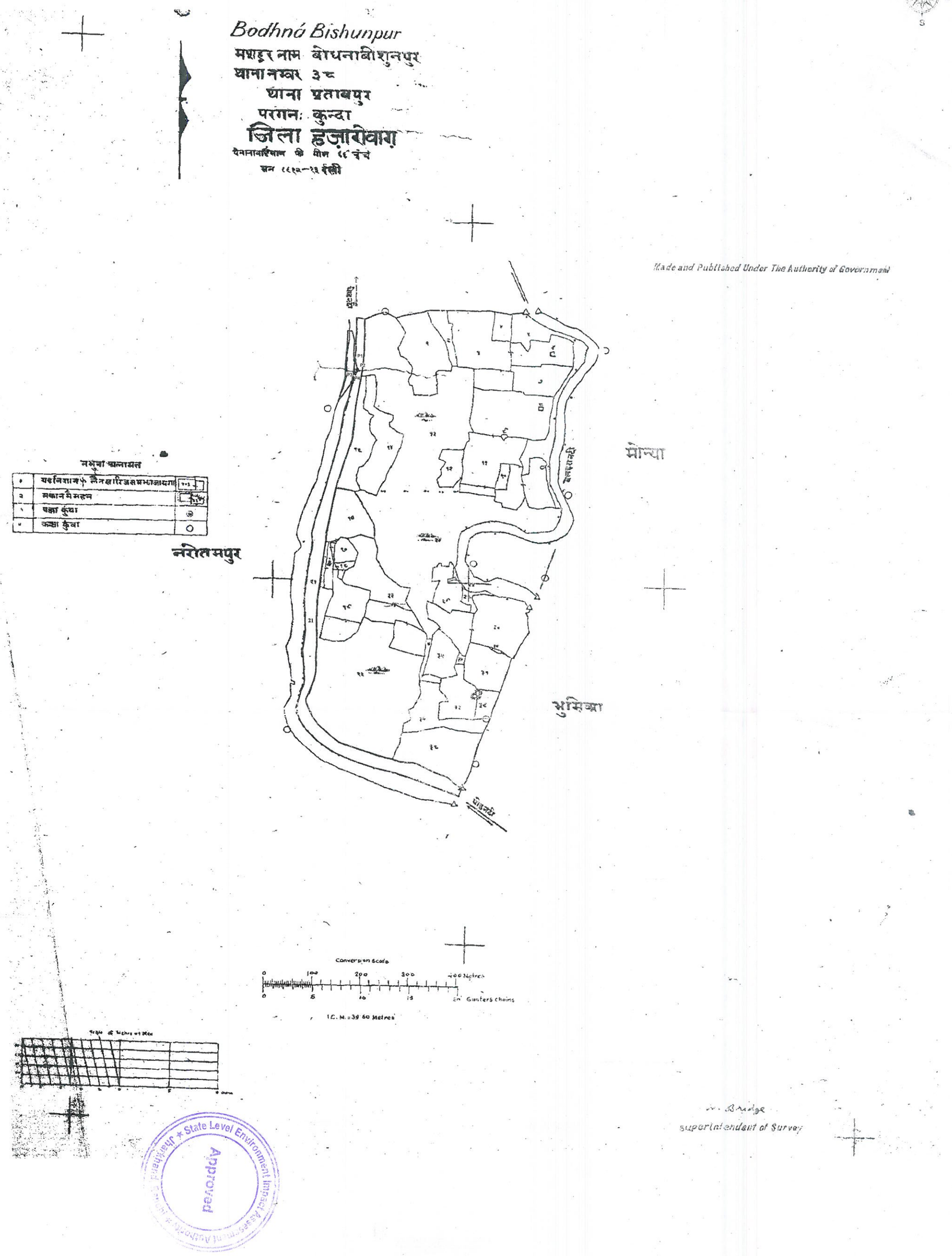
BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_In_ACRE	REMARKS
Pratappur	Bhusia	49	1	90	River	8.0608	
				TOTAL AREA		8.0608	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	253578.1265	2697201.273	24°22' 7.230" N	84°34' 14.693" E
P2	253570.644	2697181.257	24°22' 6.575" N	84°34' 14.440" E
P3	253483.2405	2697029.823	24°22' 1.606" N	84°34' 11.434" E
P4	253471.9129	2697078.121	24°22' 3.169" N	84°34' 11.003" E
P5	253488.2475	2696835.622	24°21' 55.300" N	84°34' 11.732" E
P6	253500.3652	2696849.988	24°21' 55.774" N	84°34' 12.153" E
P7	253505.1066	2696793.718	24°21' 53.949" N	84°34' 12.335" E
P8	253494.0921	2696773.61	24°21' 53.289" N	84°34' 11.978" E
P9	253494.3215	2696764.55	24°21' 52.995" N	84°34' 11.992" E
P10	253499.742	2696753.022	24°21' 52.624" N	84°34' 12.151" E
P11	253499.4647	2696722.042	24°21' 51.617" N	84°34' 12.200" E
P12	253491.1242	2696691.358	24°21' 50.615" N	84°34' 11.544" E
P13	253489.7271	2696677.963	24°21' 50.180" N	84°34' 11.580" E
P14	253498.2154	2696683.625	24°21' 50.368" N	84°34' 12.180" E
P15	253502.747	2696517.762	24°21' 44.981" N	84°34' 12.444" E
P16	253408.9102	2696507.033	24°21' 44.652" N	84°34' 12.314" E
P17	253352.7036	2696433.053	24°21' 42.259" N	84°34' 14.268" E
P18	253559.0636	2696429.493	24°21' 42.135" N	84°34' 14.499" E
P19	253623.0245	2696357.412	24°21' 39.647" N	84°34' 16.812" E
P20	253622.464	2696341.685	24°21' 39.331" N	84°34' 16.798" E
P21	253626.7551	2696331.596	24°21' 39.006" N	84°34' 16.957" E
P22	253629.062	2696348.456	24°21' 39.555" N	84°34' 17.026" E
P23	253643.5553	2696265.066	24°21' 37.507" N	84°34' 17.794" E
P24	253632.6562	2696235.428	24°21' 35.885" N	84°34' 17.226" E
P25	253606.0431	2696186.081	24°21' 34.267" N	84°34' 16.313" E
P26	253627.1063	2696127.438	24°21' 34.323" N	84°34' 17.059" E
P27	253588.5145	2696086.971	24°21' 31.037" N	84°34' 15.752" E
P28	253582.6905	2696060.415	24°21' 29.846" N	84°34' 15.547" E

Proposed Area in Ha of 11- 0.52
Proposed Area in Ha of 12- 0.10
Proposed Area in Ha of 13- 0.22
Proposed Area in Ha of 14- 0.36
Proposed Area in Ha of 15- 0.30
Proposed Area in Ha of 15A- 0.25
Proposed Area in Ha of 16-0.51

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_08, Block -Pratappur, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	253363.4564	2698299.016	24°22' 42.768" N	84°34' 6.397" E
P2	253368.107	2698277.445	24°22' 42.070" N	84°34' 6.576" E
P3	253361.2273	2698256.579	24°22' 41.388" N	84°34' 6.344" E
P4	253356.3368	2698249.409	24°22' 41.152" N	84°34' 6.176" E

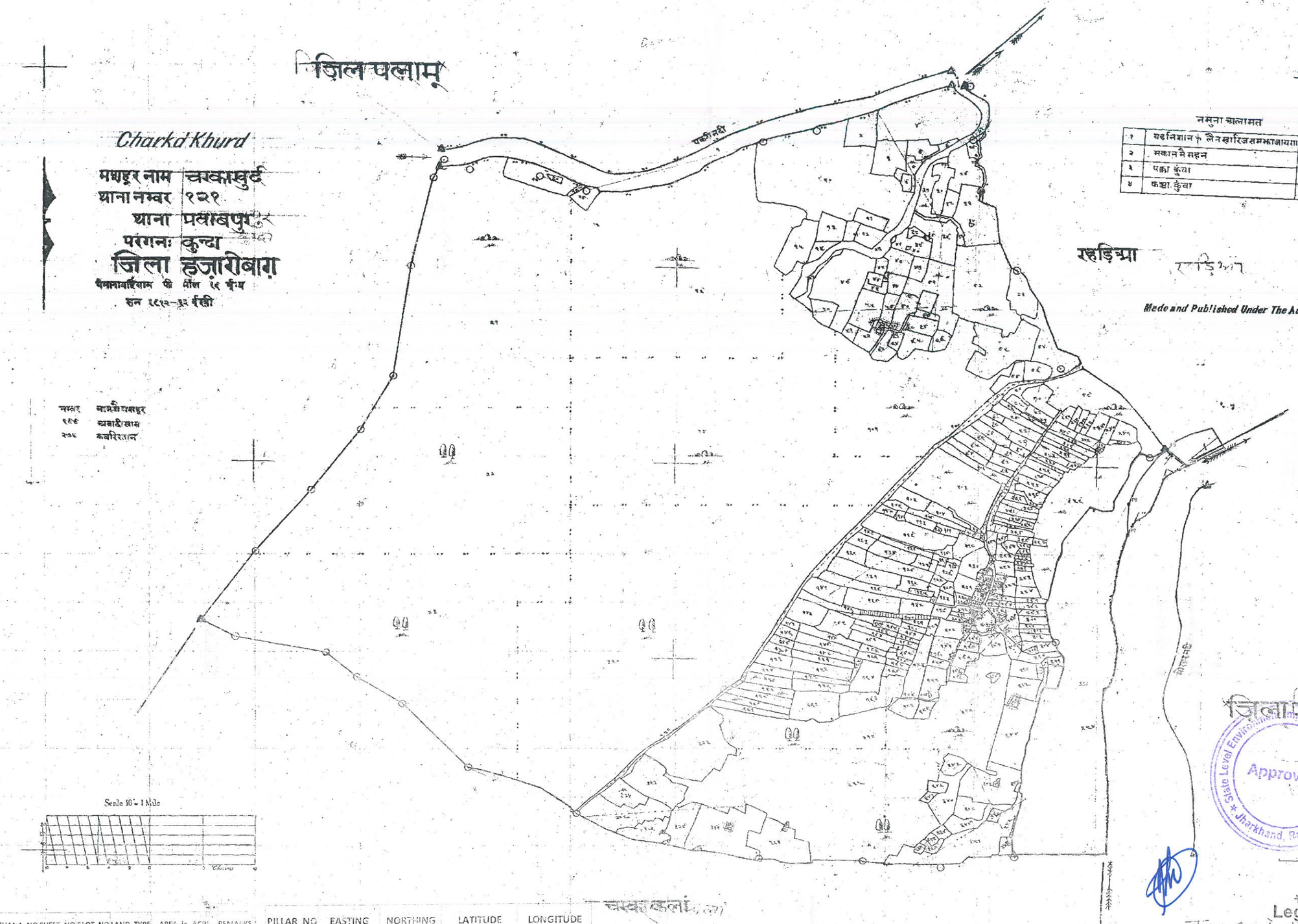
BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratappur	Bodhna Bishunpur	38	1	21	River	7.6173	
				TOTAL AREA		7.6173	

Proposed Area in Ha of 8-0.22

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_54, Block -Pratappur, District - Chatra, JHARKHAND



BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratappur	Charka Khurd	121	1	354	River	25.8941	
				TOTAL AREA		25.8941	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P5	246745.3392	2687614.796	24°16' 51.885" N	84°30' 18.482" E
P6	246783.5181	2687579.353	24°16' 50.756" N	84°30' 19.857" E
P7	246669.2741	2687438.747	24°16' 46.122" N	84°30' 15.898" E
P8	246671.0065	2687501.968	24°16' 48.176" N	84°30' 15.919" E

Proposed Area in Ha of 54- 1.12

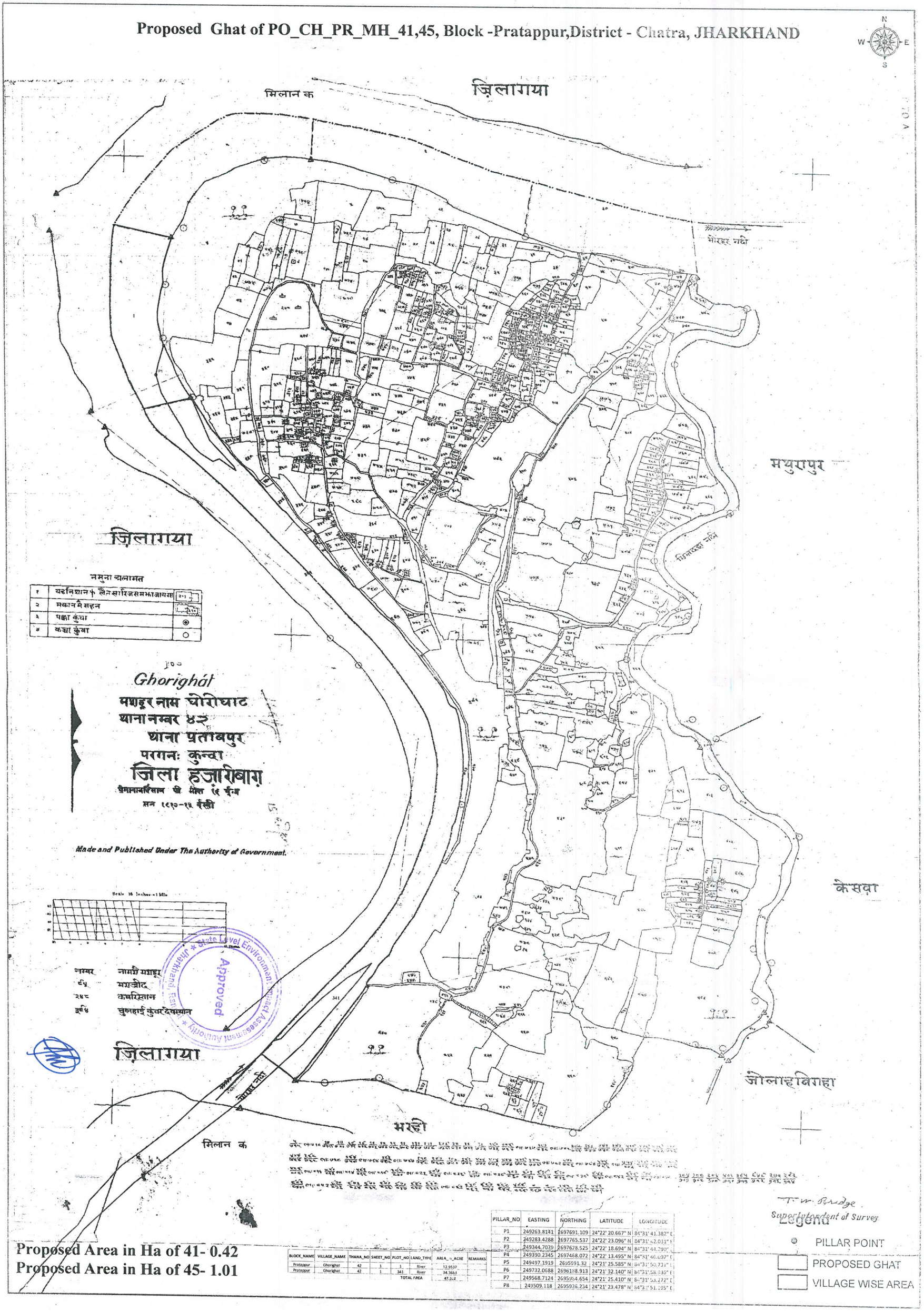
Legend

PILLAR POINT

PROPOSED GHAT

VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_41,45, Block -Pratappur,District - Chatra, JHARKHAND



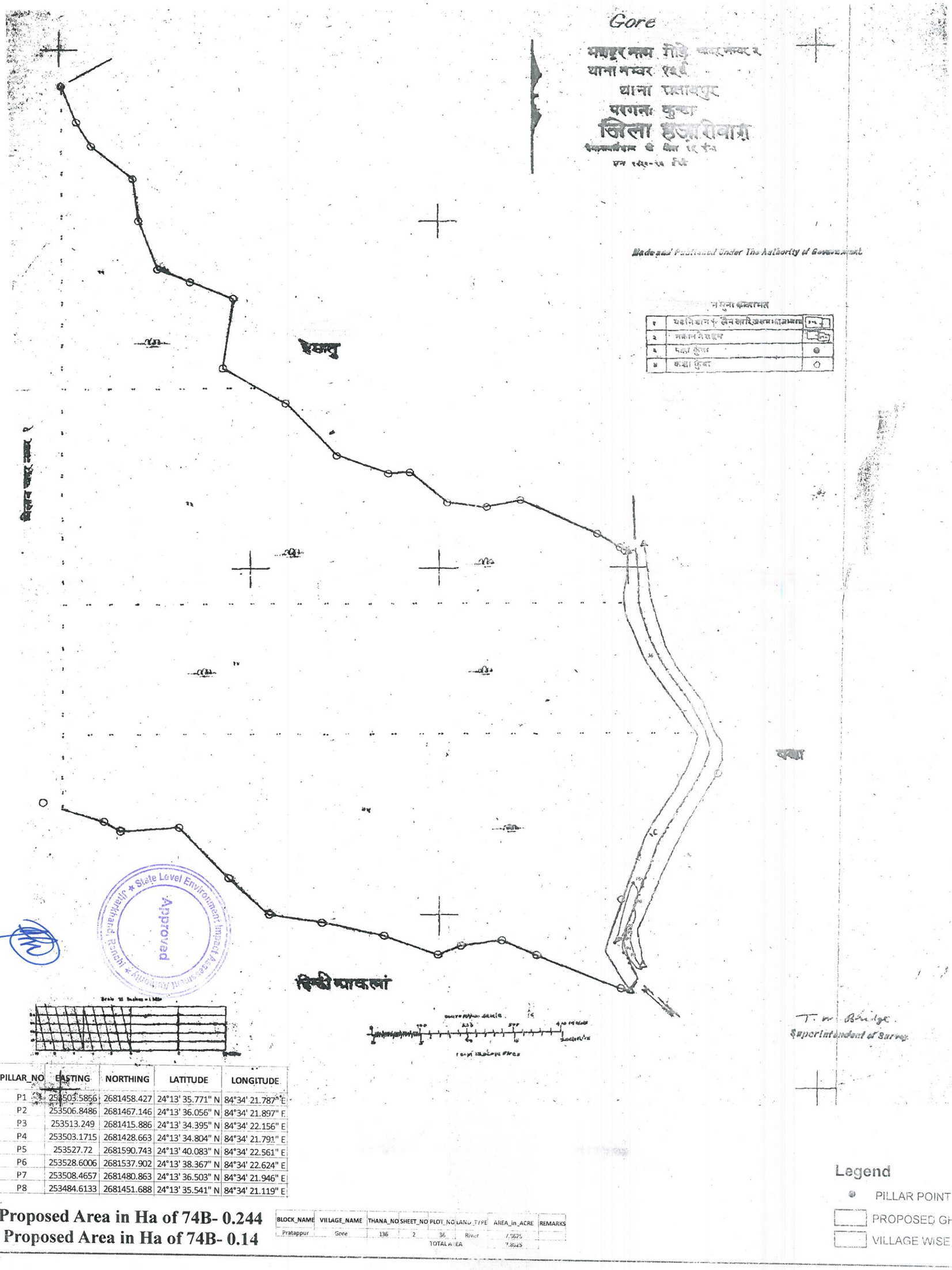
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	249263.8141	2697691.109	24°22' 20.667" N	84°31' 41.382" E
P2	249283.4288	2697765.537	24°22' 23.096" N	84°31' 42.031" E
P3	249344.7079	2697678.525	24°22' 18.694" N	84°31' 44.290" E
P4	249390.2345	2697468.072	24°22' 13.495" N	84°31' 46.007" E
P5	249497.1919	2695991.32	24°21' 25.585" N	84°31' 50.731" E
P6	249732.0688	2696188.913	24°21' 32.140" N	84°31' 58.336" E
P7	249568.7124	2695984.654	24°21' 25.410" N	84°31' 53.272" E
P8	249509.118	2695936.234	24°21' 23.478" N	84°31' 51.195" E

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_IN_ACRE	REMARKS
Pratappur	Ghorighat	42	1	1	River	12.9537	
Pratappur	Ghorighat	42	1	341	River	34.3063	
					TOTAL AREA	47.2-2	

Proposed Area in Ha of 41- 0.42
Proposed Area in Ha of 45- 1.01

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_74B,74C, Block -Pratappur, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	253503.5856	2681458.427	24°13' 35.771" N	84°34' 21.787" E
P2	253506.8486	2681467.146	24°13' 36.056" N	84°34' 21.897" E
P3	253513.249	2681415.886	24°13' 34.395" N	84°34' 22.156" E
P4	253503.1715	2681428.663	24°13' 34.804" N	84°34' 21.791" E
P5	253527.72	2681590.743	24°13' 40.083" N	84°34' 22.561" E
P6	253528.6006	2681537.902	24°13' 38.367" N	84°34' 22.624" E
P7	253508.4657	2681480.863	24°13' 36.503" N	84°34' 21.946" E
P8	253484.6133	2681451.688	24°13' 35.541" N	84°34' 21.119" E

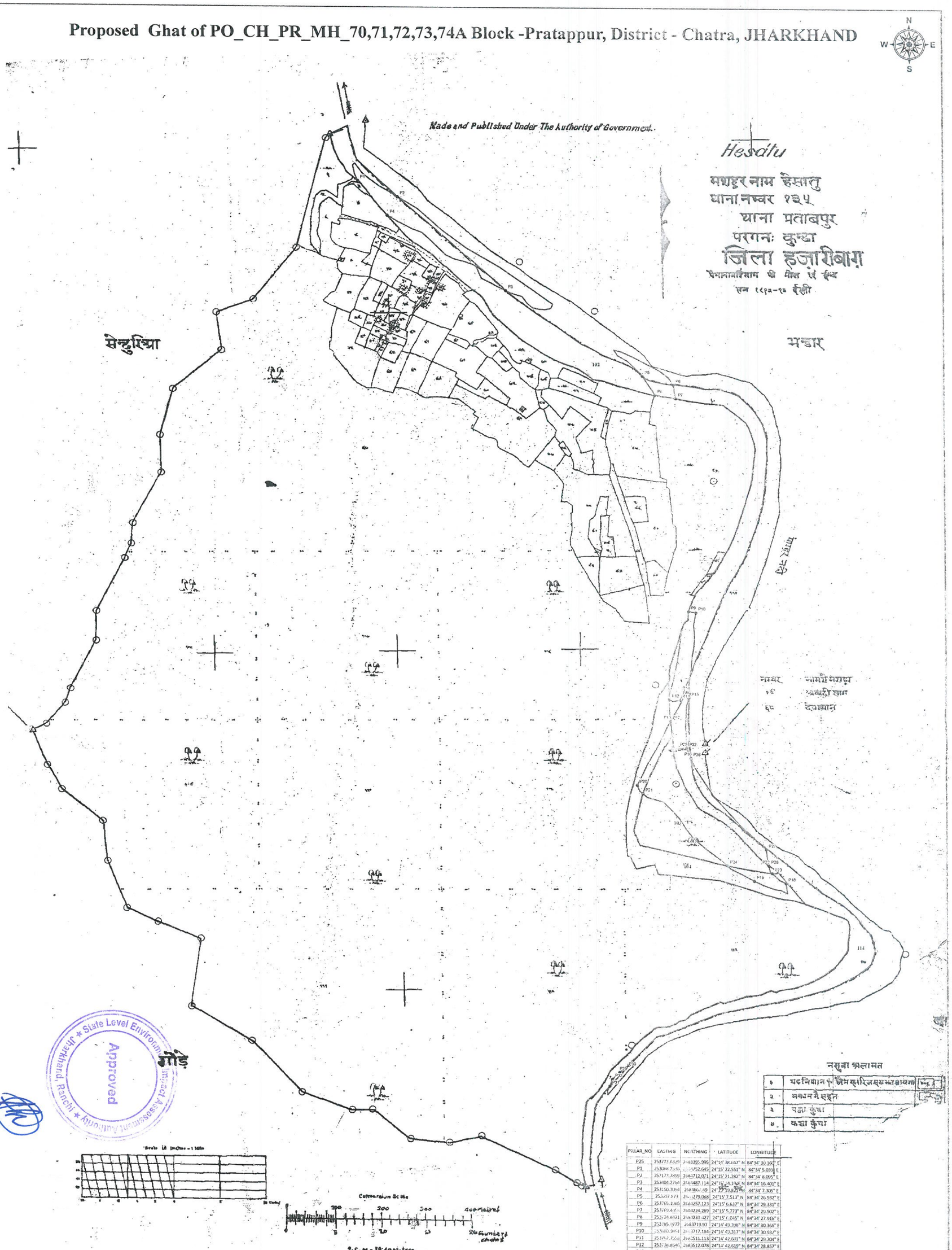
Proposed Area in Ha of 74B- 0.244
Proposed Area in Ha of 74B- 0.14

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratappur	Gore	136	2	56	River	7.9625	
				TOTAL AREA		7.9625	

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_70,71,72,73,74A Block -Pratappur, District - Chatra, JHARKHAND



नक्शा अलामत

१	यह निशान पर [illegible]
२	मकान में खड़ा
३	पक्का कुंवा
४	कच्चा कुंवा

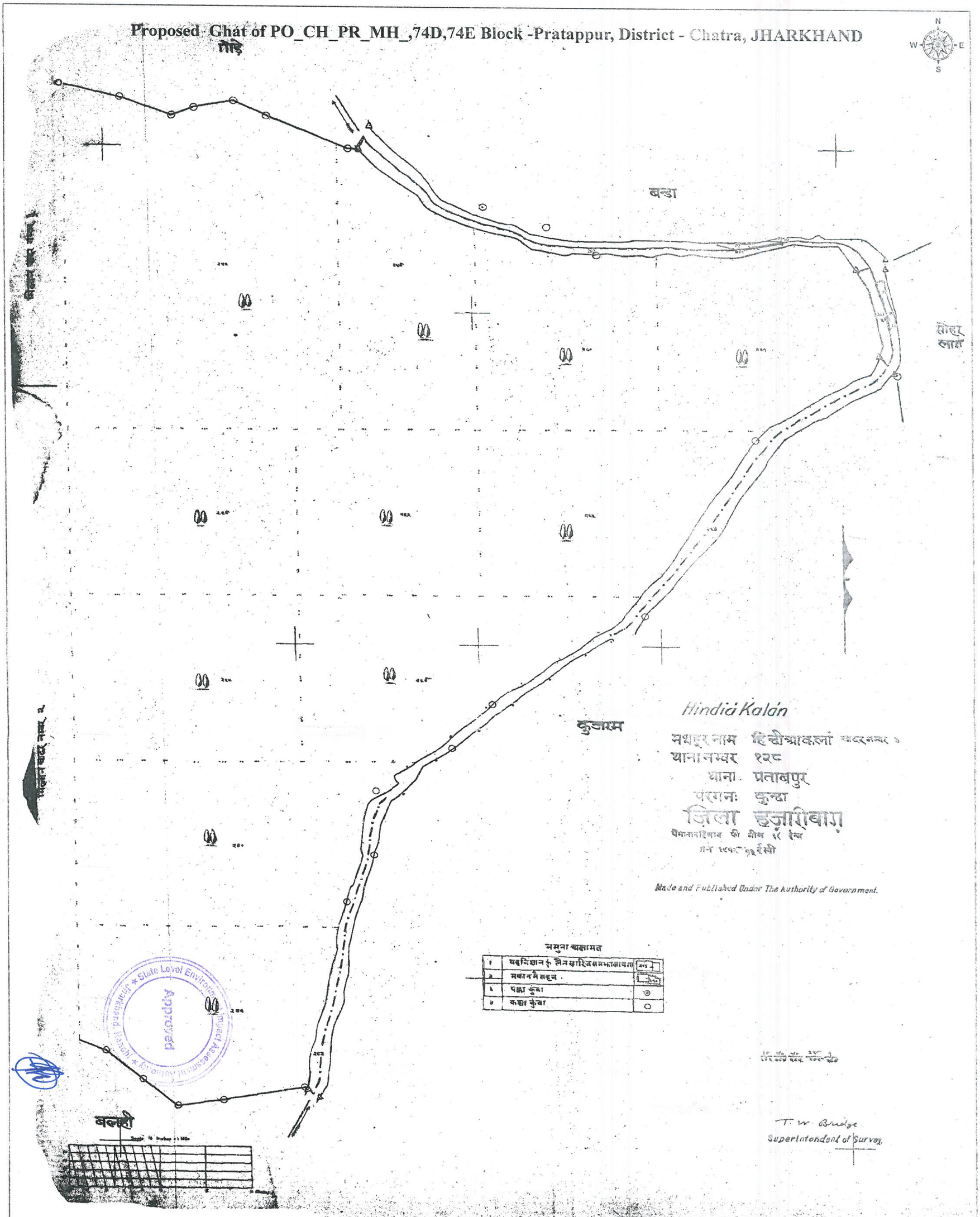
Proposed Area in Ha of 70- 1.89
Proposed Area in Ha of 71- 0.46
Proposed Area in Ha of 72- 0.60
Proposed Area in Ha of 73- 4.12
Proposed Area in Ha of 74A- 0.09

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratappur	Hesatu	135	1	103	Forest	9.0257	
Pratappur	Hesatu	135	1	102	River	32.5429	
Pratappur	Hesatu	135	1	104	River	16.1821	
Pratappur	Hesatu	135	1	114	River	32.5429	
				TOTAL AREA		90.2936	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P25	253773.6363	2683895.995	24°14' 38.667" N	84°34' 30.160" E
P1	253868.7256	2683752.645	24°15' 22.551" N	84°34' 5.039" E
P2	253173.7859	2683712.071	24°15' 21.282" N	84°34' 8.095" E
P3	253404.2764	2684487.114	24°15' 24.194" N	84°34' 16.401" E
P4	253150.7094	2684666.49	24°15' 29.8[illegible] N	84°34' 7.305" E
P5	253607.873	2684279.088	24°15' 7.513" N	84°34' 26.932" E
P6	253765.1965	2684257.123	24°15' 6.847" N	84°34' 29.331" E
P7	253470.645	2684224.289	24°15' 5.773" N	84°34' 29.502" E
P8	253126.6421	2684233.427	24°15' 6.045" N	84°34' 27.916" E
P9	253285.1977	2683719.97	24°14' 49.398" N	84°34' 30.366" E
P10	253400.3951	2683717.184	24°14' 49.317" N	84°34' 30.932" E
P11	253102.7556	2683511.113	24°14' 42.601" N	84°34' 29.704" E
P12	253136.8546	2683512.078	24°14' 42.619" N	84°34' 28.857" E
P13	253340.1183	2683460.843	24°14' 40.955" N	84°34' 28.933" E
P14	252777.8333	2683529.946	24°14' 43.221" N	84°34' 30.211" E
P15	253161.6557	2683515.622	24°14' 42.758" N	84°34' 30.371" E
P16	253773.6363	2683895.995	24°14' 38.667" N	84°34' 30.160" E
P21	253675.7461	2683290.293	24°14' 35.378" N	84°34' 26.758" E
P22	253546.5312	2683117.159	24°14' 29.907" N	84°34' 36.457" E
P23	253551.5087	2683099.243	24°14' 29.330" N	84°34' 36.716" E
P24	253456.3961	2683118.069	24°14' 29.885" N	84°34' 33.267" E
P17	253392.1330	2683460.843	24°14' 40.955" N	84°34' 28.933" E
P18	253962.9135	2683075.095	24°14' 28.561" N	84°34' 37.773" E
P19	253814.1103	2683280.962	24°14' 28.713" N	84°34' 35.331" E
P20	253746.2228	2683310.064	24°14' 36.014" N	84°34' 26.337" E
P26	253762.5[illegible]	2683[illegible]71.076	24°14' 38.080" N	84°34' 30.402" E
P27	253411.4617	2683155.682	24°14' 31.156" N	84°34' 36.267" E
P28	253346.5112	2683117.159	24°14' 29.907" N	84°34' 36.457" E
P29	253[illegible]7[illegible]	2683[illegible]22.46	24°14' 33.891" N	84°34' 24.857" E
P30	253[illegible]8.7[illegible]	2682641.035	24°14' 14.260" N	84°34' 25.355" E
P31	253[illegible]6.1727	2682507.712	24°14' 12.630" N	84°34' 24.082" E
P32	253[illegible]6.6421	2682[illegible]14.348	24°14' 13.374" N	84°34' 24.301" E
P33	253[illegible]3.0327	2683[illegible]95.935	24°14' 38.667" N	84°34' 30.160" E

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_,74D,74E Block -Pratappur, District - Chatra, JHARKHAND



BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratappur	Hindia Kalan	128	4	263	River	1.3336	
Pratappur	Hindia Kalan	128	4	262	River	5.337	
				TOTAL AREA		6.6706	

Proposed Area in Ha of 74D- 0.16

Proposed Area in Ha of 74D- 0.17

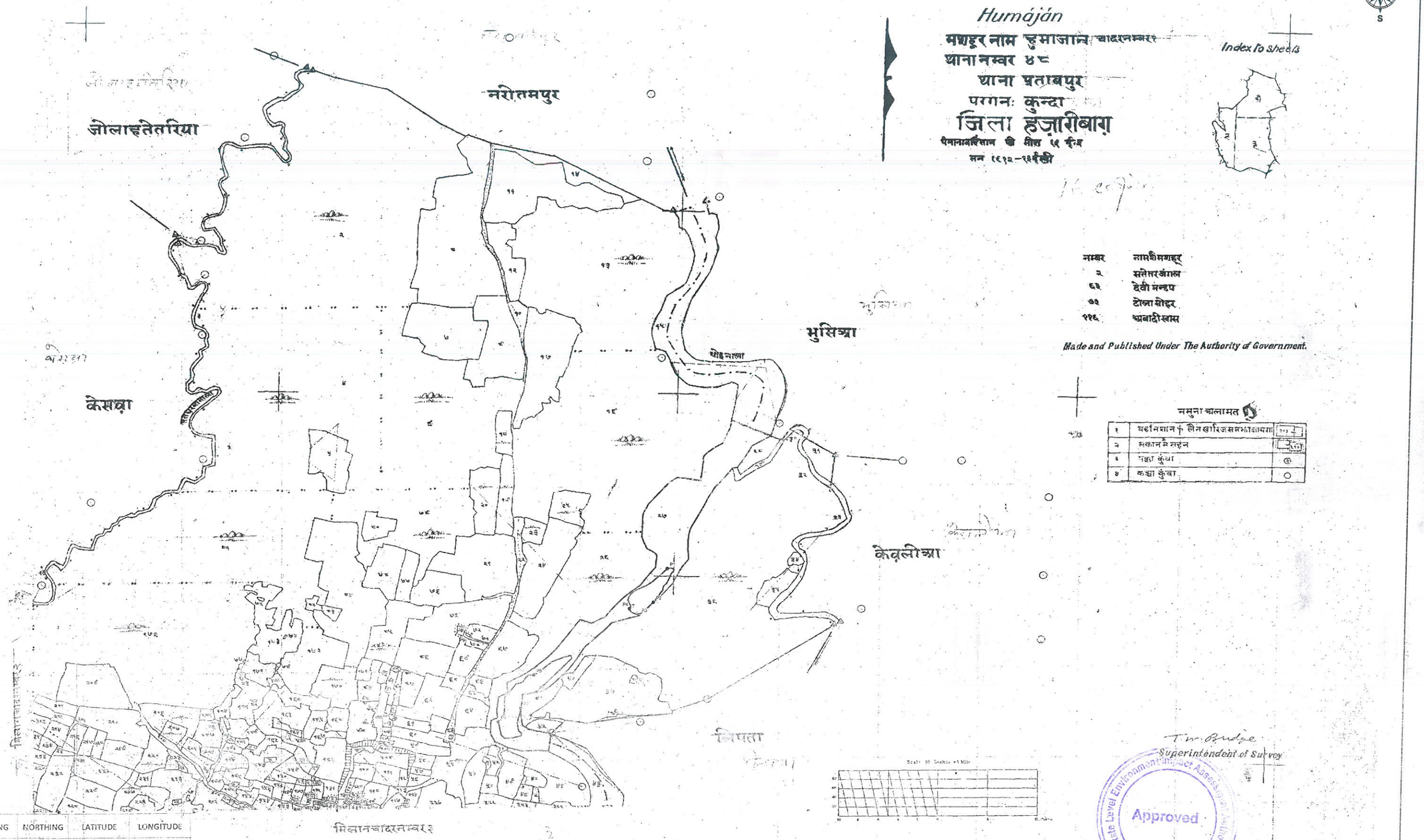
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	254349.2216	2681080.94	24°13' 23.985" N	84°34' 51.976" E
P2	254341.182	2681086.07	24°13' 24.147" N	84°34' 51.688" E
P3	254447.8999	2681101.157	24°13' 24.697" N	84°34' 55.459" E
P4	254449.2073	2681097.677	24°13' 24.585" N	84°34' 55.507" E
P5	254654.9396	2680997.72	24°13' 21.454" N	84°35' 2.856" E
P6	254662.4225	2680971.957	24°13' 20.621" N	84°35' 3.137" E
P7	254676.5149	2680920.135	24°13' 18.945" N	84°35' 3.668" E
P8	254681.1455	2680890.131	24°13' 17.973" N	84°35' 3.851" E

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

T. W. Bridge
Superintendent of Survey.

Proposed Ghat of PO_CH_PR_MH_18,19_20, Block -Pratappur, District - Chatra, JHARKHAND

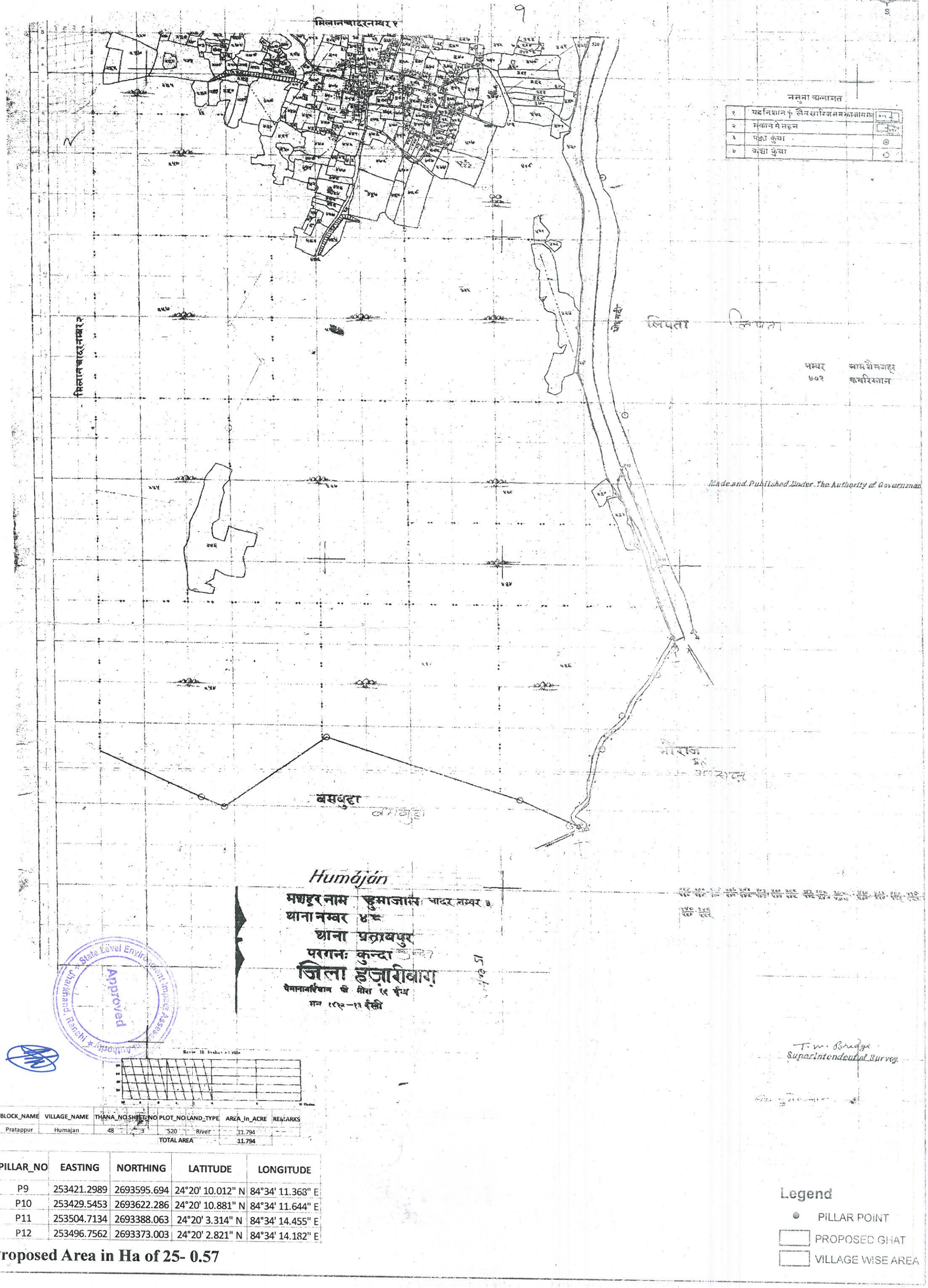


PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	253541.148	2695225.184	24°21' 3.015" N	84°34' 14.607" E
P2	253512.685	2695151.388	24°21' 0.601" N	84°34' 13.644" E
P3	253483.9022	2695124.607	24°20' 59.715" N	84°34' 12.640" E
P4	253465.4371	2695138.172	24°21' 0.145" N	84°34' 11.977" E
P5	253269.306	2694995.554	24°20' 55.401" N	84°34' 5.111" E
P6	253274.3563	2694937.422	24°20' 54.165" N	84°34' 5.313" E
P7	253242.5101	2694922.499	24°20' 53.012" N	84°34' 4.206" E
P8	253196.879	2694893.896	24°20' 52.057" N	84°34' 2.606" E

Proposed Area in Ha of 18 - 0.37
Proposed Area in Ha of 19_20 - 0.70

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratappur	Humajan	48	1	27	River	13.4148	
				TOTAL AREA		13.4148	

Proposed Ghat of PO_CH_PR_MH_,25 Block -Pratappur, District - Chatra, JHARKHAND



BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_In_ACRE	REMARKS
Pratappur	Humajan	48	3	520	River	11.794	
				TOTAL AREA		11.794	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P9	253421.2989	2693595.694	24°20' 10.012" N	84°34' 11.368" E
P10	253429.5453	2693622.286	24°20' 10.881" N	84°34' 11.644" E
P11	253504.7134	2693388.063	24°20' 3.314" N	84°34' 14.455" E
P12	253496.7562	2693373.003	24°20' 2.821" N	84°34' 14.182" E

Proposed Area in Ha of 25- 0.57

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_65,66,67 Block -Pratappur, District - Chatra, JHARKHAND

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नमूना वालामत

१	घटनिशान पं. लेन खोजसमझाऊसमशा	P01
२	मकान गे.घरस	
३	पक्का कुंवा	◎
४	कच्चा कुंवा	○

नम्बर नामगे मझाइ
७२ खावाडी शामत
२५५ कवरिखान

कटौतिया

मोहर नदी

न्यदौरिया

संग्रामपुरखुर्द

संग्रामपुरकला

Jirabar

मशहूर नाम जीराबर
थाना नम्बर १३२
थाना प्रतापपुर
परगनः कुन्दा
जिला हजारीबाग़
पैमानावर्सिमाम पो मील १६ इंच
सन १८ रेसी

सिंदुरिया

लिपता

कटौतिया

संग्रामपुरखुर्द

गोड़े

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratappur	Jirabar	132	1	181	River	5.0825	
Pratappur	Jirabar	132	1	8	River	17.8551	
Pratappur	Jirabar	132	1	157	River	6.2824	
Pratappur	Jirabar	132	1	170	River	5.0851	
				TOTAL AREA		34.3051	

Proposed Area in Ha of 65- 1.99
Proposed Area in Ha of 66- 0.79
Proposed Area in Ha of 67- 0.74

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P9	250921.5627	2685634.758	24°15' 49.860" N	84°32' 40.631" E
P10	250951.4093	2685842.11	24°15' 56.732" N	84°32' 49.060" E
P11	250942.7629	2685805.049	24°15' 55.517" N	84°32' 48.352" E
P12	250919.6634	2685747.486	24°15' 53.647" N	84°32' 47.405" E
P5	250282.7186	2685348.372	24°15' 40.304" N	84°32' 25.260" E
P6	250694.2949	2685544.487	24°15' 46.911" N	84°32' 39.721" E
P7	250653.9147	2685511.943	24°15' 45.831" N	84°32' 38.310" E
P8	250320.3081	2685344.209	24°15' 40.191" N	84°32' 26.594" E
P13	251771.5137	2685130.315	24°15' 34.072" N	84°33' 16.149" E
P14	251788.6029	2685138.515	24°15' 34.348" N	84°33' 18.749" E
P15	251857.083	2684948.445	24°15' 28.213" N	84°33' 21.294" E
P16	251833.1293	2685007.673	24°15' 30.123" N	84°33' 20.408" E
P1	249722.7196	2685230.88	24°15' 36.166" N	84°32' 5.491" E
P2	249751.3848	2685280.865	24°15' 37.807" N	84°32' 6.475" E
P3	249960.6623	2685270.275	24°15' 37.583" N	84°32' 13.857" E
P4	249959.2254	2685215.664	24°15' 35.808" N	84°32' 13.880" E

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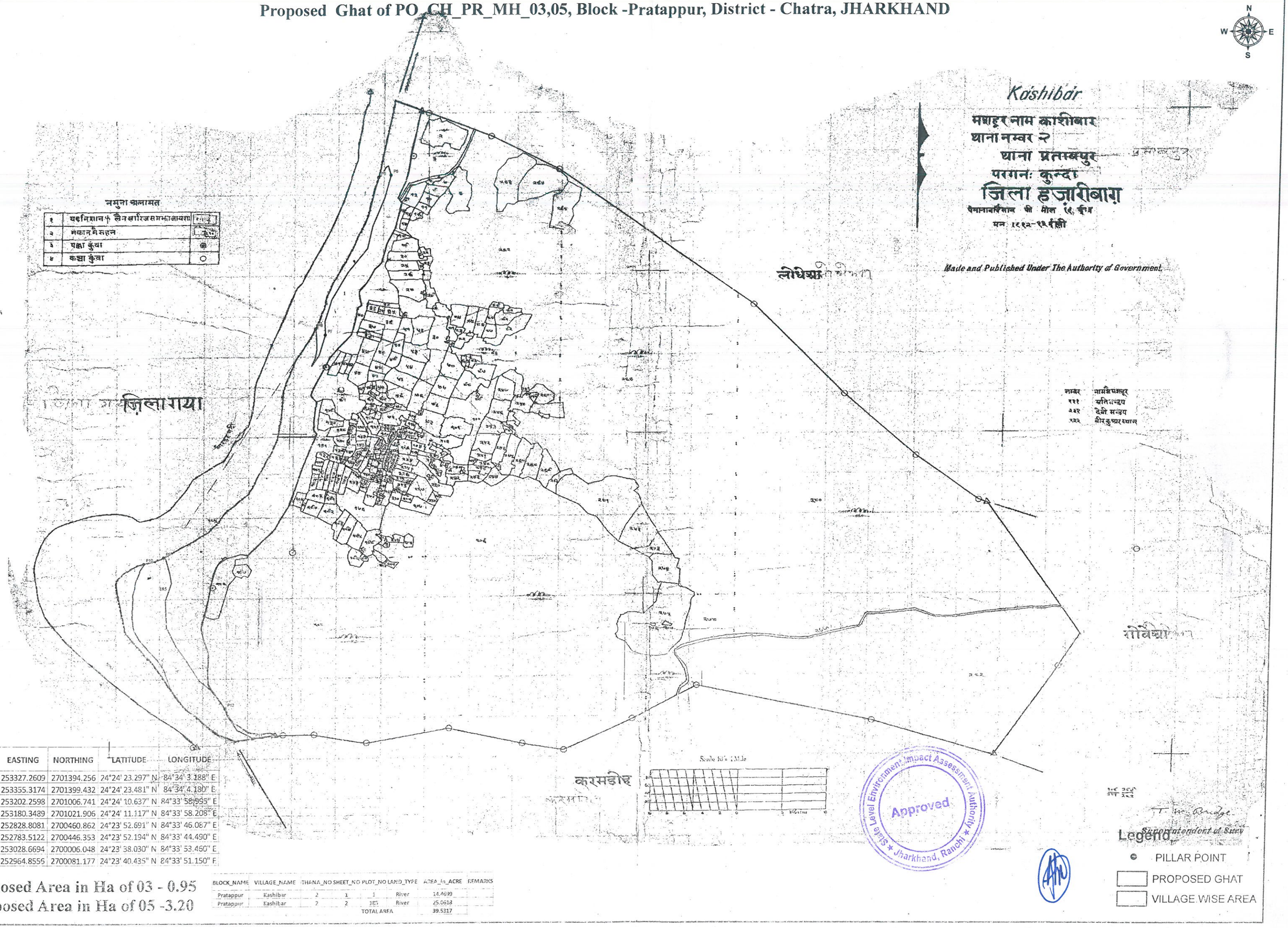
T. W. Bridge
Superintendent

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_03,05, Block -Pratappur, District - Chatra, JHARKHAND

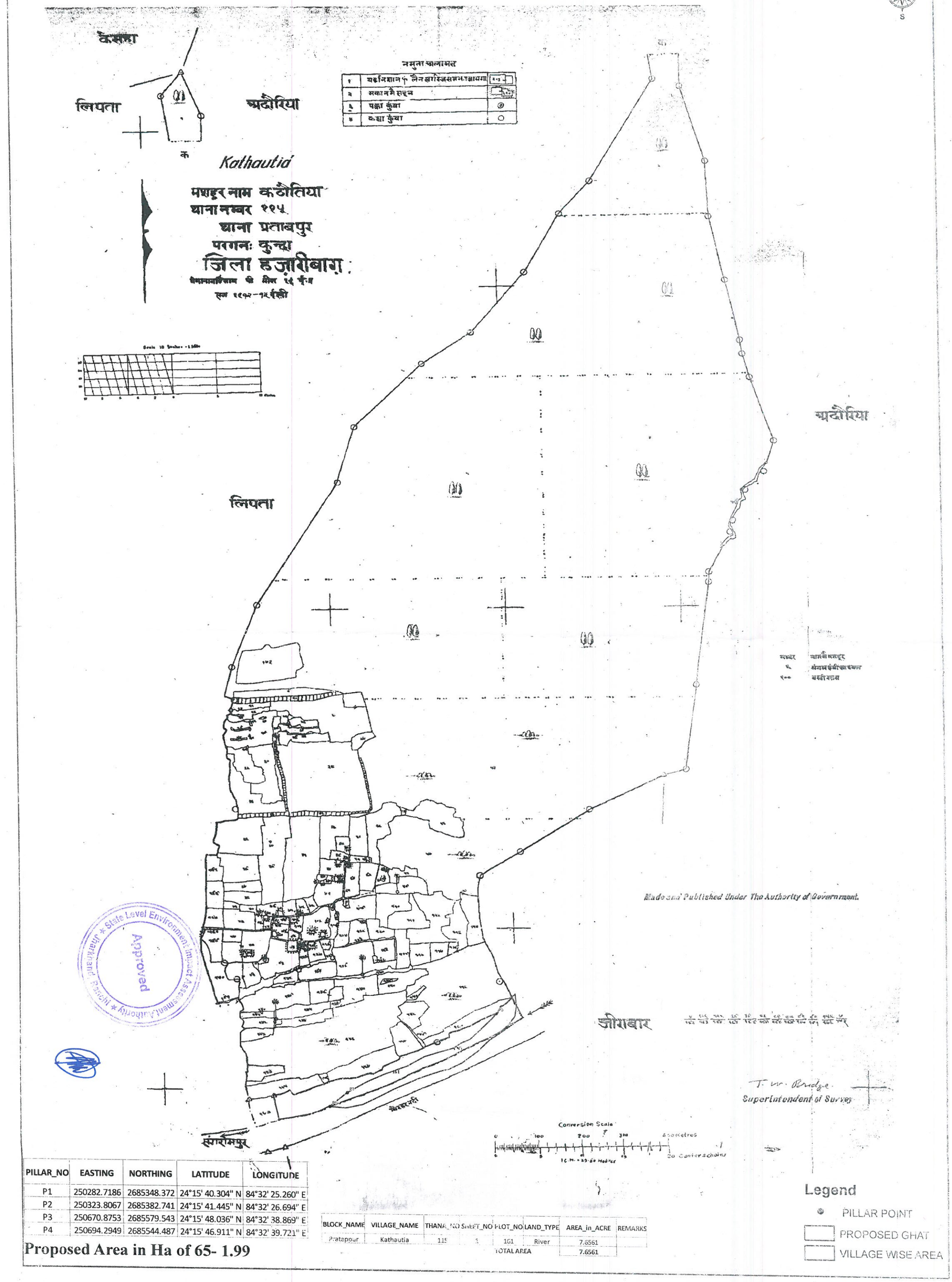


PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P5	253327.2609	2701394.256	24°24' 23.297" N	84°34' 3.188" E
P6	253355.3174	2701399.432	24°24' 23.481" N	84°34' 4.180" E
P7	253202.2598	2701006.741	24°24' 10.637" N	84°33' 58.995" E
P8	253180.3489	2701021.906	24°24' 11.117" N	84°33' 58.208" E
P9	252828.8081	2700460.862	24°23' 52.691" N	84°33' 46.087" E
P10	252783.5122	2700446.353	24°23' 52.194" N	84°33' 44.490" E
P11	253028.6694	2700006.048	24°23' 38.030" N	84°33' 53.460" E
P12	252964.8556	2700081.177	24°23' 40.435" N	84°33' 51.150" E

Proposed Area in Ha of 03 - 0.95
Proposed Area in Ha of 05 -3.20

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratappur	Kashibar	2	1	1	River	14.4699	
Pratappur	Kashibar	2	2	185	River	25.0618	
				TOTAL AREA		39.5317	

Proposed Ghat of PO_CH_PR_MH_65, Block -Pratappur, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	250282.7186	2685348.372	24°15' 40.304" N	84°32' 25.260" E
P2	250323.8067	2685382.741	24°15' 41.445" N	84°32' 26.694" E
P3	250670.8753	2685579.543	24°15' 48.036" N	84°32' 38.869" E
P4	250694.2949	2685544.487	24°15' 46.911" N	84°32' 39.721" E

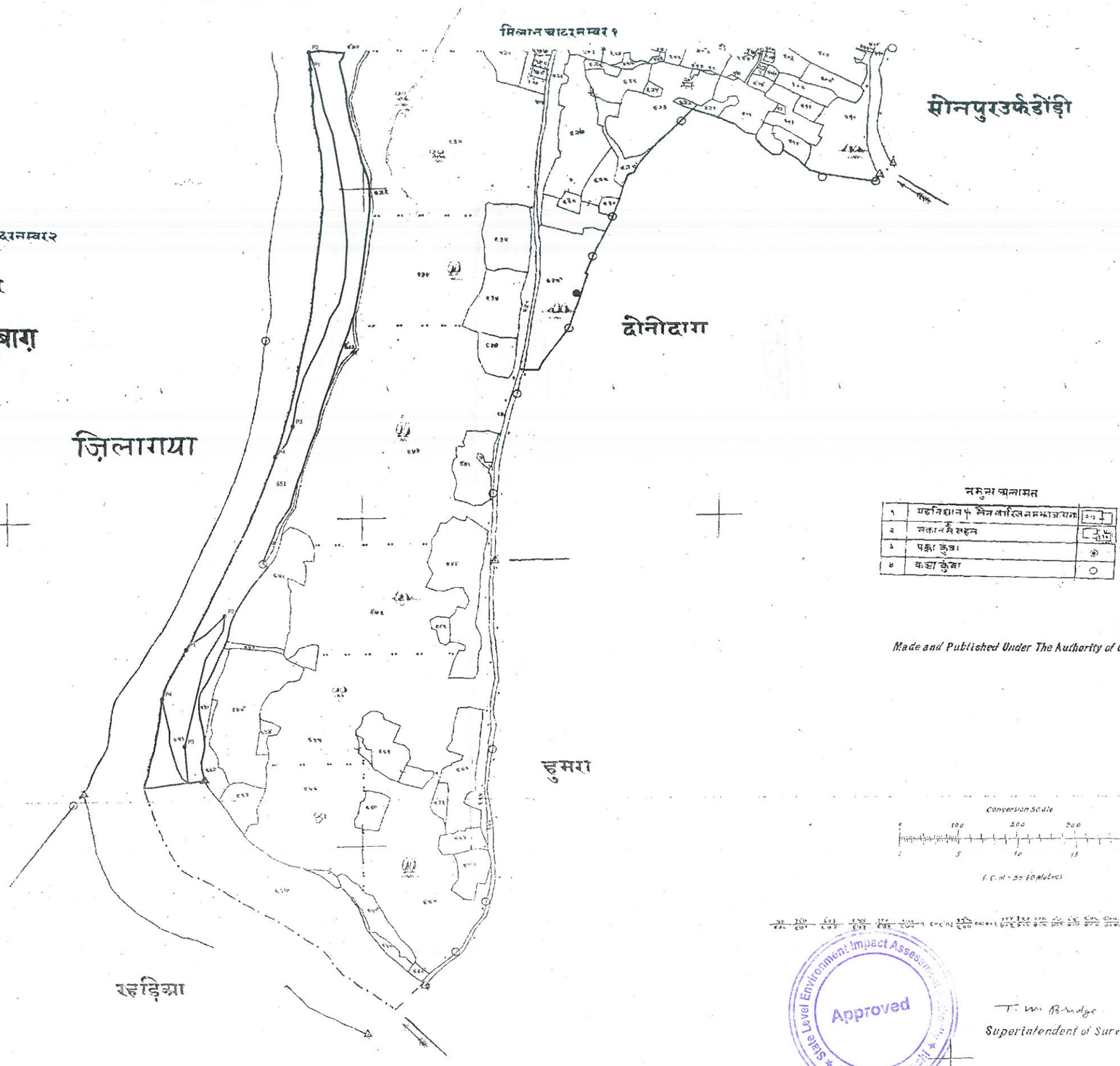
Proposed Area in Ha of 65- 1.99

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratappur	Kathautia	115	1	161	River	7.6561	
				TOTAL AREA		7.6561	

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_51,51A, Block -Pratappur, District - Chatra, JHARKHAND



नमूना अलामत

१	ग्रहनिशान५ मेल लाखिल नम्बर अलामत	
२	मकान मे सहन	
३	पक्का कुवा	◉
४	कच्चा कुवा	○

Made and Published Under The Authority of Government

Conversion Scale

100 200 300 400 Metres

5 10 15 20 Gunters Chains

1 C.M. = 32.80 Metres

Scale 16 = 1 Mile.

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	247201.2265	2690706.368	24°18' 32.577" N	84°30' 32.677" E
P2	247199.0474	2690737.674	24°18' 33.592" N	84°30' 32.579" E
P3	247164.6492	2690049.962	24°18' 11.233" N	84°30' 31.797" E
P4	247134.7747	2689994.166	24°18' 9.403" N	84°30' 30.773" E
F1	246979.4	2689642.696	24°17' 57.805" N	84°30' 25.489" E
P2	247045.6738	2689702.547	24°17' 59.878" N	84°30' 27.800" E
P3	246974.1869	2689463.8	24°17' 52.061" N	84°30' 25.418" E
P4	246937.403	2689552.525	24°17' 54.942" N	84°30' 24.052" E

Proposed Area in Ha of 50 - 1.93

Proposed Area in Ha of 51A -1.06

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratappur	Kaura	75	2	651	River	21.5568	
				TOTAL AREA		21.5568	

Approved

State Level Environment Impact Assessment Authority Jharkhand, Ranchi

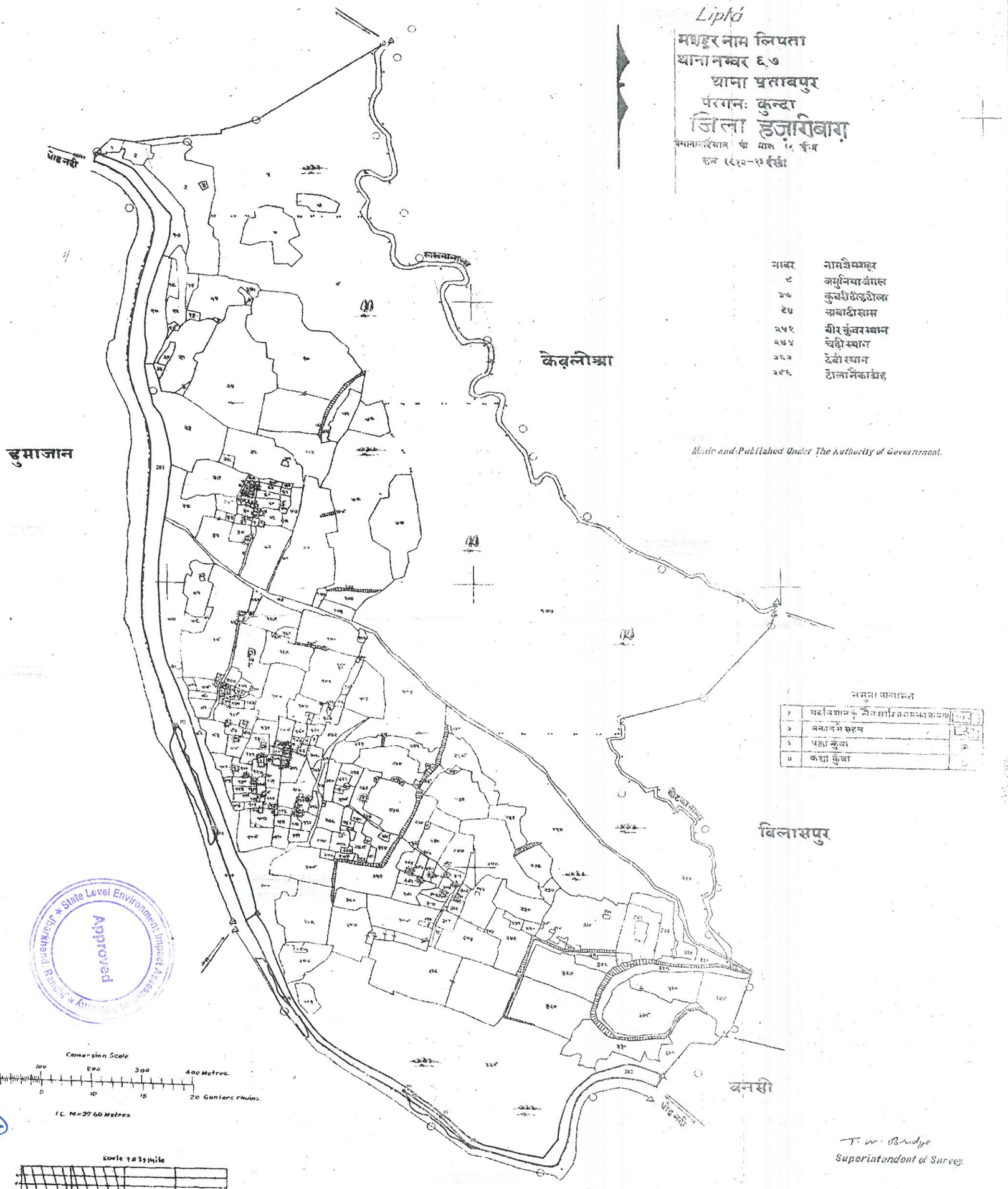
T. W. Bridge

Superintendent of Survey

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_25,26_27,29, Block -Pratappur, District - Chatra, JHARKHAND



नम्बर	नामतौमशहूर
८	जयुनियाजंगल
३७	कुचीडीहटोला
६७	मजारीथान
२५९	वीर कुंवरथान
२७५	चंडीस्थान
२८२	देवीस्थान
२९६	टोलानिकाग्रह

नमूना अलामत	
२	सड़कविज्ञान फ़ौजदारीनक़्शानक़्शाजरीब
३	मकानमेंरहट
५	पक्का कुंआ
४	कच्चा कुंआ

Approved
State Level Environment Impact Assessment Authority, Jharkhand

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratapur	Lipta	67	1	282	River	4.9524	
Pratappur	Lipta	67	1	281	River	12.9906	
					TOTAL AREA	17.943	

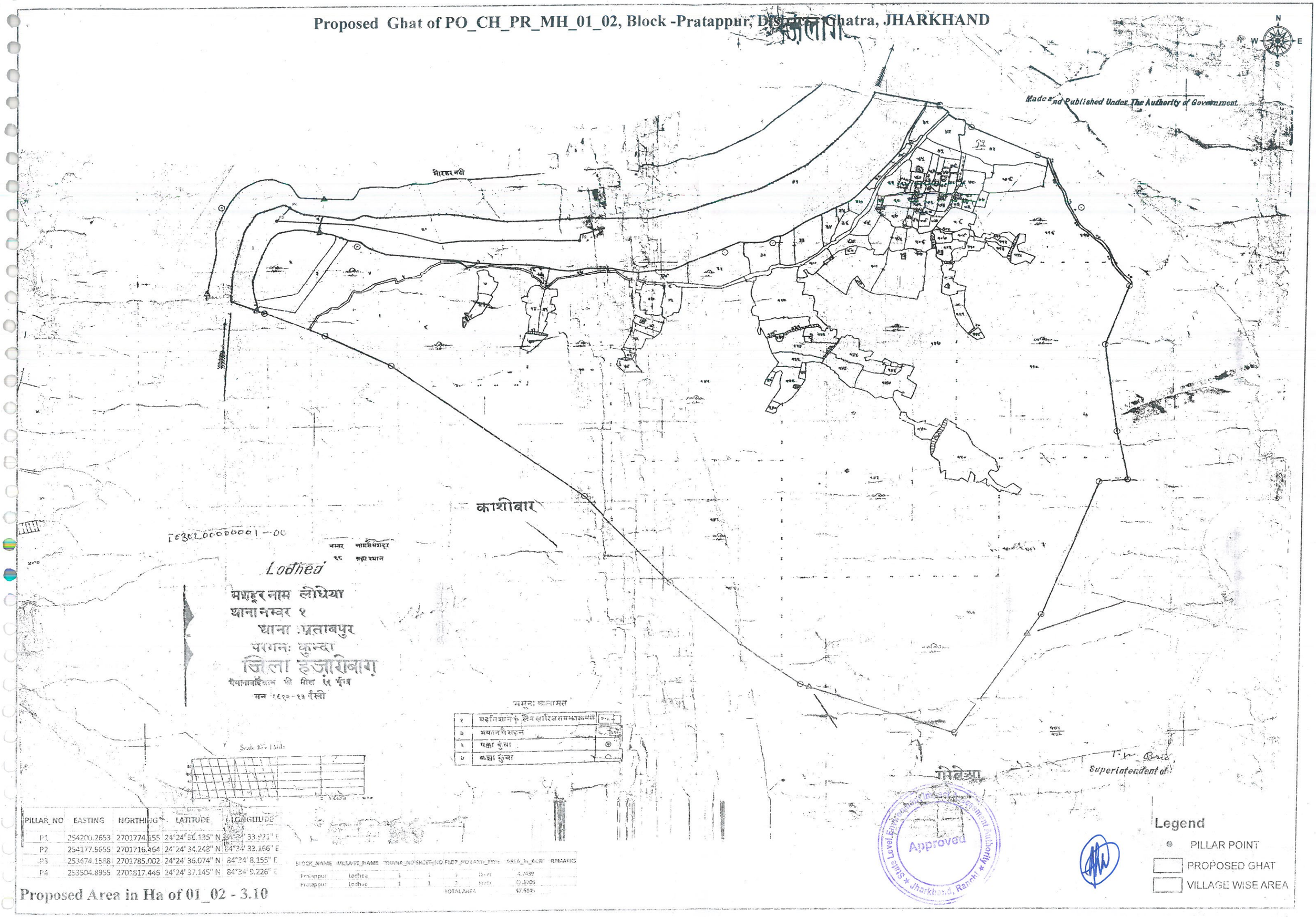
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	253429.5453	2693622.286	24°20' 10.881" N	84°34' 11.644" E
P2	253435.3193	2693628.32	24°20' 11.080" N	84°34' 11.845" E
P3	253509.8904	2693399.638	24°20' 3.693" N	84°34' 14.631" E
P4	253504.7134	2693388.063	24°20' 3.314" N	84°34' 14.455" E
P5	253875.1079	2692823.119	24°19' 45.172" N	84°34' 27.936" E
P6	253865.1063	2692842.433	24°19' 45.794" N	84°34' 27.570" E
P7	253936.9055	2692786.472	24°19' 44.017" N	84°34' 30.150" E
P8	253988.8736	2692726.519	24°19' 42.090" N	84°34' 32.030" E

Proposed Area in Ha of 25- 0.57
Proposed Area in Ha of 26_27- 0.24
Proposed Area in Ha of 29- 0.22

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_01_02, Block -Pratappur, District - Ghatra, JHARKHAND

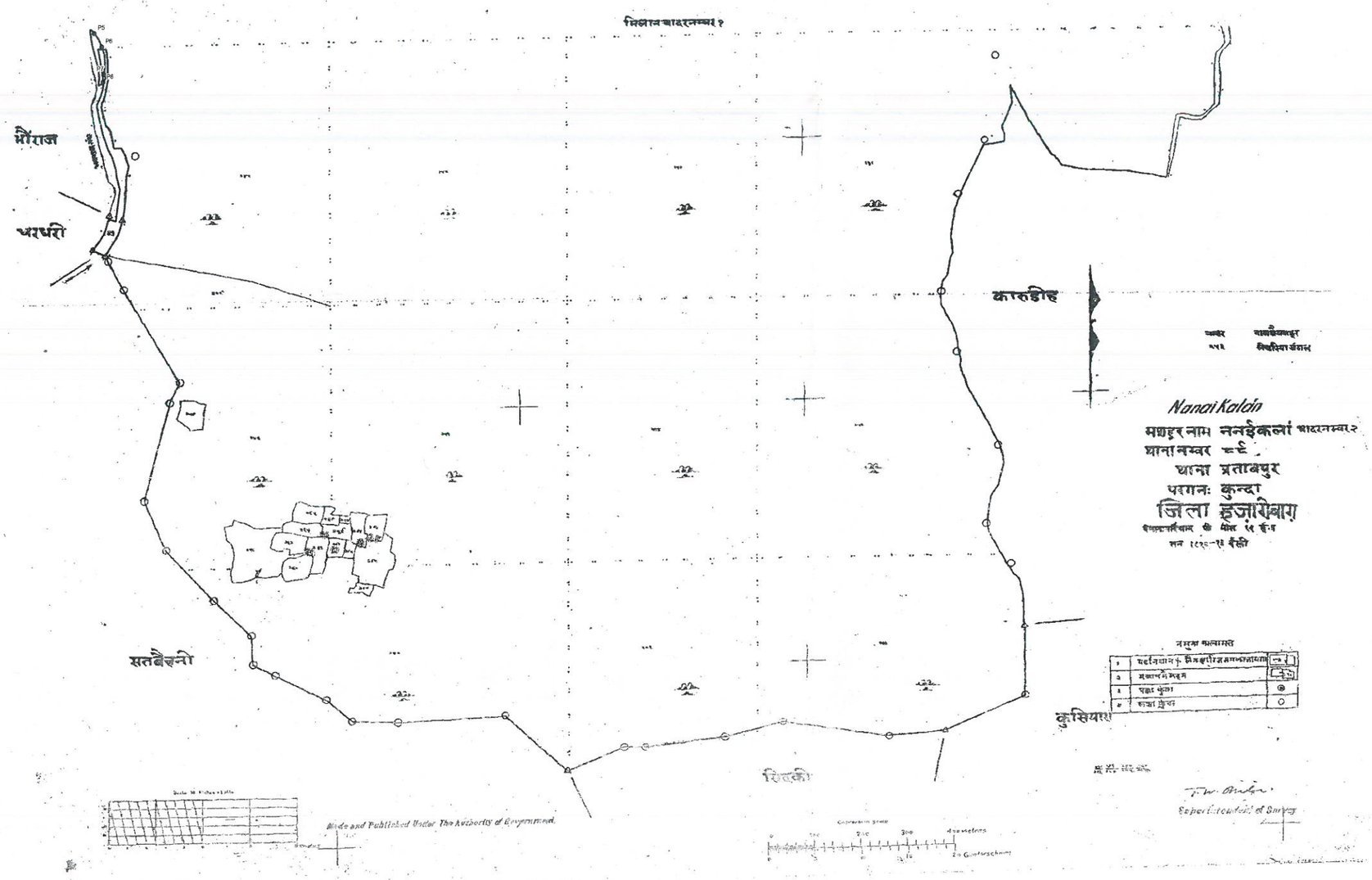


PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	254200.2653	2701774.155	24°24' 36.135" N	84°34' 33.921" E
P2	254177.9655	2701716.464	24°24' 34.248" N	84°34' 33.166" E
P3	253474.1588	2701785.002	24°24' 36.074" N	84°34' 8.155" E
P4	253504.8955	2701817.445	24°24' 37.145" N	84°34' 9.226" E

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratappur	Lodhea	1	1	1	River	4.7439	
Pratappur	Lodhea	1	1	1	River	42.8706	
				TOTAL AREA		47.6145	

Proposed Area in Ha of 01_02 - 3.10

Proposed Ghat of PO_CH_PR_MH_36, Block -Pratappur, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P5	254745.9667	2690502.824	24°18' 30.288" N	84°35' 0.241" E
P6	254761.5692	2690471.381	24°18' 29.276" N	84°35' 0.813" E
P7	254764.5168	2690408.171	24°18' 27.224" N	84°35' 0.957" E
P8	254762.6508	2690389.893	24°18' 26.629" N	84°35' 0.902" E

Proposed Area in Ha of 36 - 0.19

BLOCK_NAME	VILLAGE_NAME	DIARA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratappur	Nanai Kalan	88	2	83	River	3.4957	
				TOTAL AREA		3.4957	

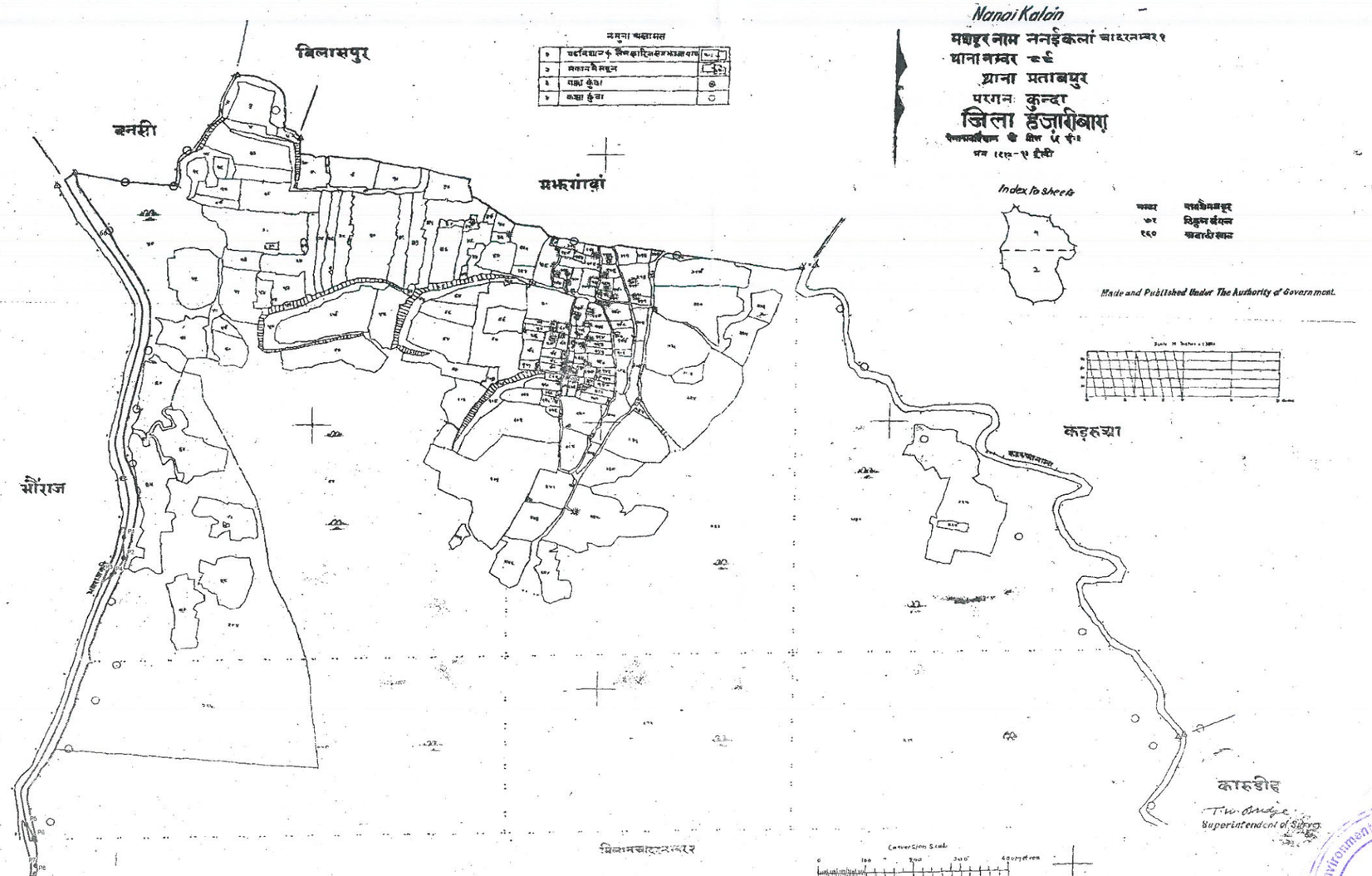
State Level Environment Impact Assessment Authority * Jharkhand, Ranchi * Approved

State Level Environment Impact Assessment Authority * Jharkhand, Ranchi * Approved

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_34,36, Block -Pratappur, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	254958.2907	2691156.082	24°18' 51.630" N	84°35' 7.365" E
P2	254956.852	2691108.052	24°18' 50.069" N	84°35' 7.344" E
P3	254937.281	2691075.732	24°18' 49.008" N	84°35' 6.670" E
P4	254931.5081	2691070.277	24°18' 48.827" N	84°35' 6.469" E
P5	254745.9667	2690502.824	24°18' 30.288" N	84°35' 0.241" E
P6	254761.5092	2690471.381	24°18' 29.270" N	84°35' 0.813" E
P7	254764.5168	2690408.171	24°18' 27.224" N	84°35' 0.957" E
P8	254762.6508	2690389.893	24°18' 26.629" N	84°35' 0.902" E

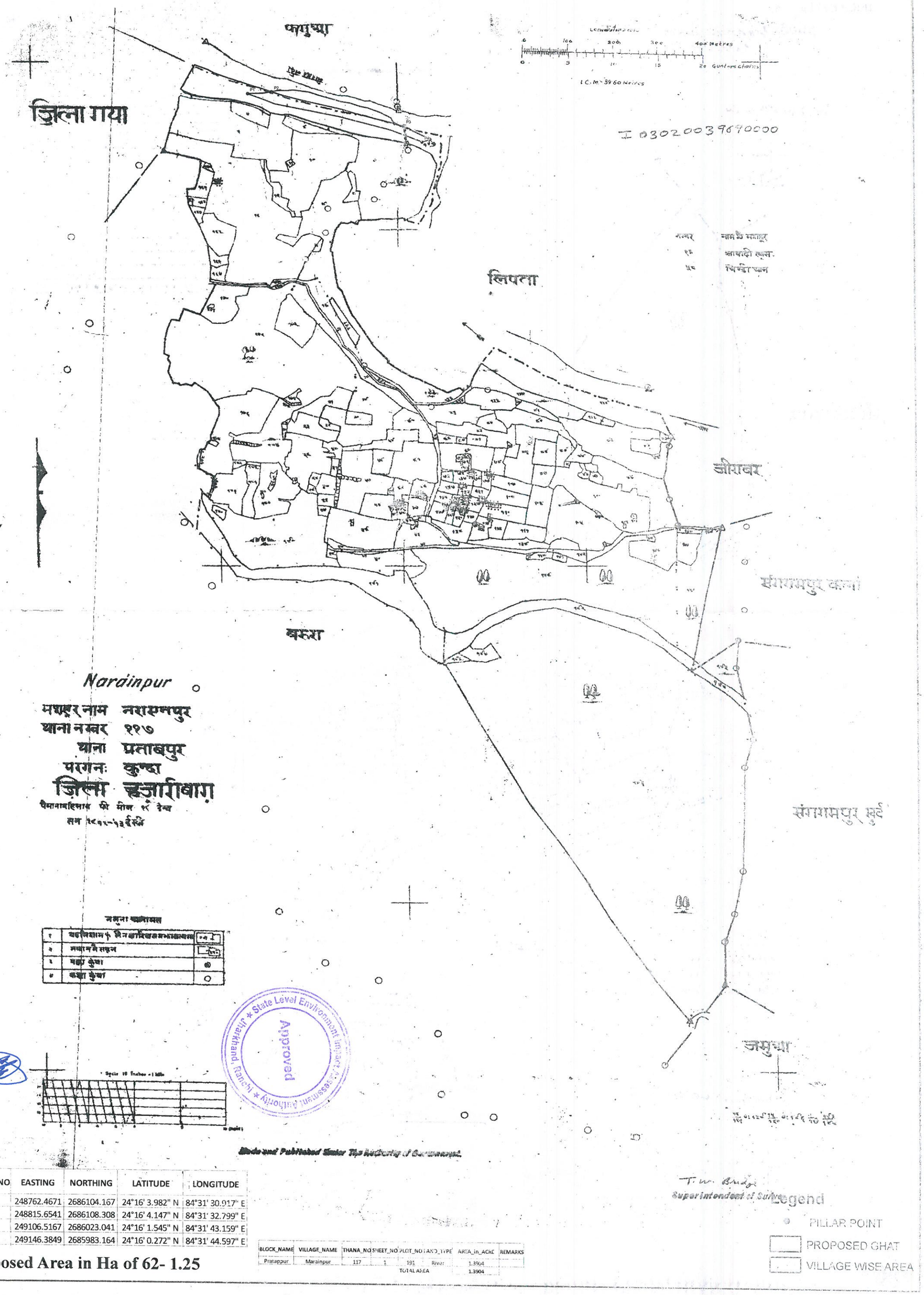
Proposed Area in Ha of 34 - 0.19
Proposed Area in Ha of 36 - 0.19

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratappur	Nanai Kalan	89	1	66	River	12.658	
				TOTAL AREA		12.653	

Approved
State Level Environment Impact Assessment Authority * Jharkhand, Ranchi *

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_62 Block -Pratappur, District - Chatra, JHARKHAND

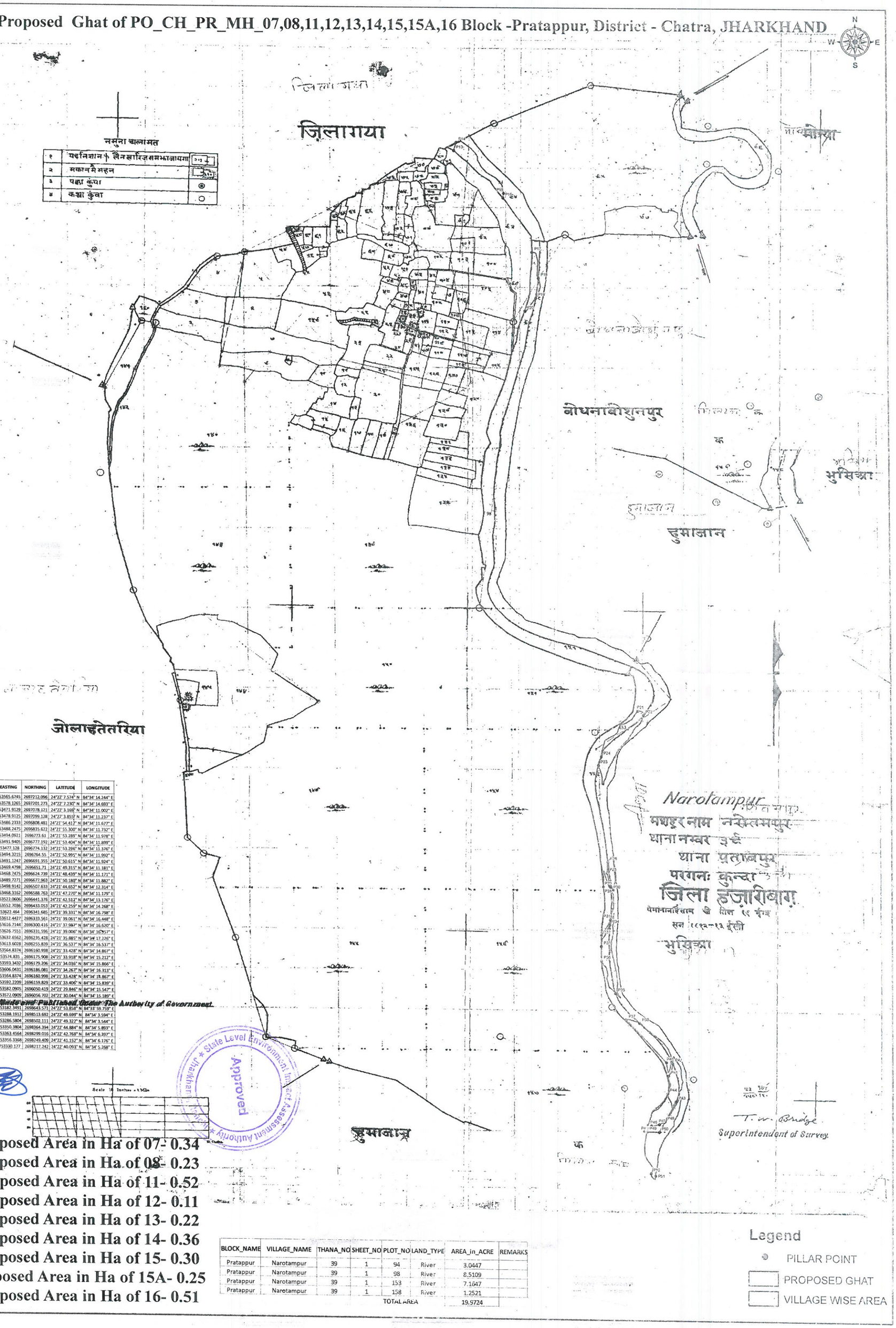


PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	248762.4671	2686104.167	24°16' 3.982" N	84°31' 30.917" E
P2	248815.6541	2686108.308	24°16' 4.147" N	84°31' 32.799" E
P3	249106.5167	2686023.041	24°16' 1.545" N	84°31' 43.159" E
P4	249146.3849	2685983.164	24°16' 0.272" N	84°31' 44.597" E

Proposed Area in Ha of 62- 1.25

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratappur	Marainpur	117	1	191	River	1.3904	
				TOTAL AREA		1.3904	

Proposed Ghat of PO_CH_PR_MH_07,08,11,12,13,14,15,15A,16 Block -Pratappur, District - Chatra, JHARKHAND



१	यहनिशान + लैनखारिजसमझाजायगा
२	मकान में महल
३	पक्का कुंवा
४	कच्चा कुंवा

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P21	253565.6745	2697212.096	24°22' 7.574" N	84°34' 14.244" E
P22	253578.1265	2697201.273	24°22' 7.230" N	84°34' 14.693" E
P23	253471.9129	2697078.121	24°22' 3.168" N	84°34' 11.000" E
P24	253478.9125	2697099.128	24°22' 3.853" N	84°34' 11.237" E
P25	253486.2333	2696808.481	24°21' 54.417" N	84°34' 11.677" E
P26	253488.2475	2696835.622	24°21' 55.300" N	84°34' 11.732" E
P27	253494.0921	2696773.61	24°21' 53.289" N	84°34' 11.978" E
P28	253491.9405	2696777.192	24°21' 53.404" N	84°34' 11.899" E
P29	253477.128	2696774.132	24°21' 53.296" N	84°34' 11.376" E
P30	253494.3215	2696764.55	24°21' 52.995" N	84°34' 11.992" E
P31	253491.1247	2696691.355	24°21' 50.615" N	84°34' 11.924" E
P32	253469.4798	2696651.71	24°21' 49.315" N	84°34' 11.181" E
P33	253468.7475	2696624.739	24°21' 48.439" N	84°34' 11.171" E
P34	253489.7271	2696677.963	24°21' 50.180" N	84°34' 11.882" E
P35	253498.9142	2696507.633	24°21' 44.652" N	84°34' 12.314" E
P36	253468.3162	2696588.763	24°21' 47.270" N	84°34' 11.179" E
P37	253522.0606	2696441.376	24°21' 42.512" N	84°34' 13.176" E
P38	253552.7036	2696433.053	24°21' 42.259" N	84°34' 14.268" E
P39	253622.464	2696341.685	24°21' 39.331" N	84°34' 16.798" E
P40	253612.4427	2696333.561	24°21' 39.061" N	84°34' 16.448" E
P41	253616.7144	2696300.416	24°21' 37.987" N	84°34' 16.620" E
P42	253626.7551	2696331.596	24°21' 39.006" N	84°34' 16.957" E
P43	253632.6562	2696235.428	24°21' 35.885" N	84°34' 17.226" E
P44	253613.6028	2696255.839	24°21' 36.537" N	84°34' 16.537" E
P45	253564.8374	2696160.998	24°21' 33.428" N	84°34' 14.867" E
P46	253574.835	2696175.908	24°21' 33.918" N	84°34' 15.212" E
P47	253593.3432	2696179.206	24°21' 34.036" N	84°34' 15.866" E
P48	253606.0431	2696186.081	24°21' 34.267" N	84°34' 16.313" E
P49	253564.8374	2696160.998	24°21' 33.428" N	84°34' 18.867" E
P50	253592.2209	2696159.829	24°21' 33.406" N	84°34' 15.839" E
P51	253582.0905	2696050.419	24°21' 29.846" N	84°34' 15.547" E
P52	253572.0909	2696056.702	24°21' 30.044" N	84°34' 15.189" E
P13	[illegible]	[illegible]	[illegible]	[illegible]
P14	253182.3491	2698643.571	24°22' 53.858" N	84°33' 59.759" E
P15	253288.1912	2698513.692	24°22' 49.699" N	84°34' 3.594" E
P16	253286.5804	2698502.111	24°22' 49.322" N	84°34' 3.544" E
P17	253350.3804	2698364.394	24°22' 44.884" N	84°34' 5.893" E
P18	253363.4564	2698299.016	24°22' 42.768" N	84°34' 6.397" E
P19	253356.3368	2698249.409	24°22' 41.152" N	84°34' 6.176" E
P20	253330.177	2698217.242	24°22' 40.093" N	84°34' 5.268" E

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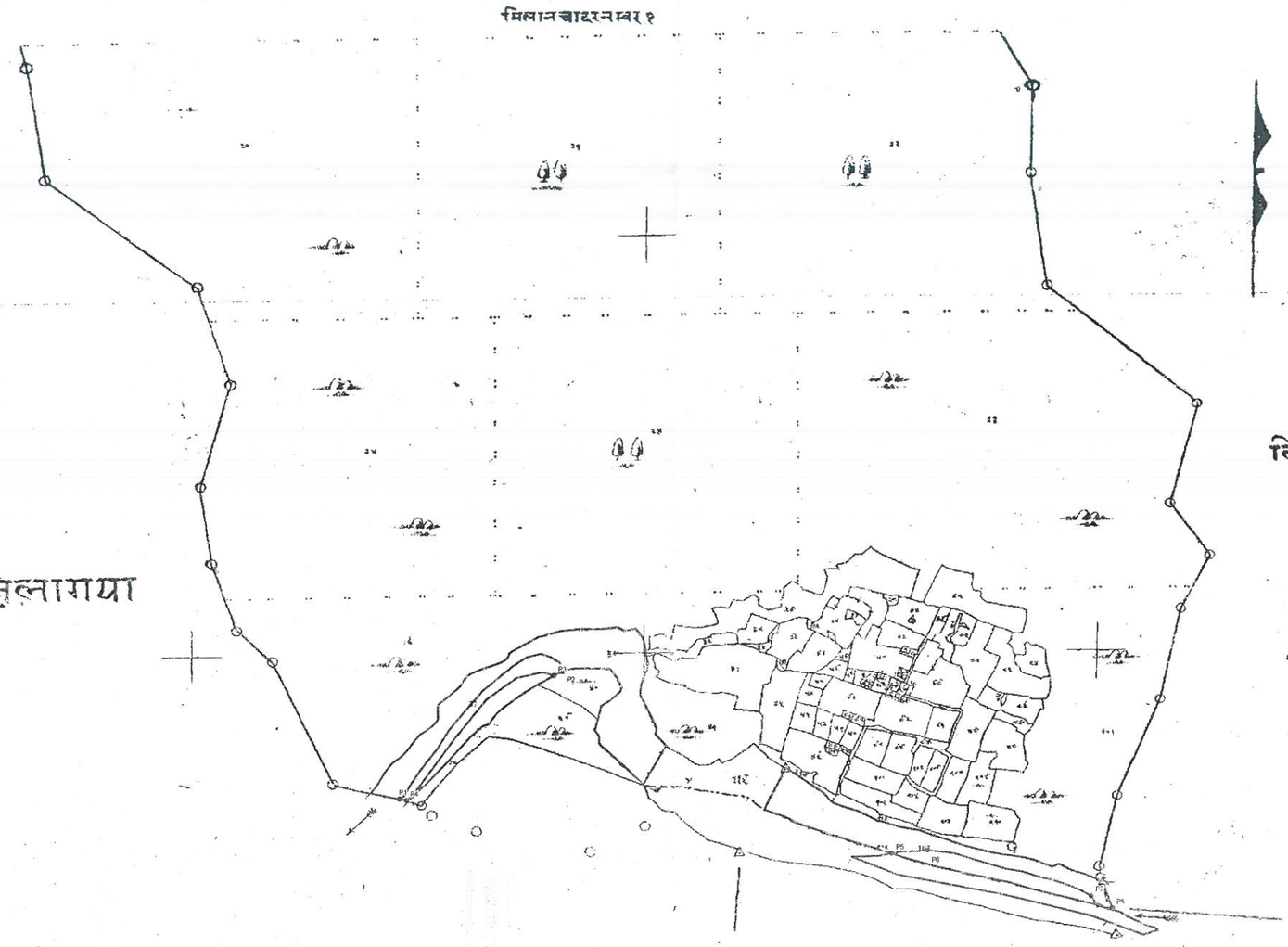
Approved
State Level Environment Impact Assessment Authority (SEIAA) Jharkhand

Proposed Area in Ha of 07- 0.34
Proposed Area in Ha of 08- 0.23
Proposed Area in Ha of 11- 0.52
Proposed Area in Ha of 12- 0.11
Proposed Area in Ha of 13- 0.22
Proposed Area in Ha of 14- 0.36
Proposed Area in Ha of 15- 0.30
Proposed Area in Ha of 15A- 0.25
Proposed Area in Ha of 16- 0.51

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratappur	Narotampur	39	1	94	River	3.0447	
Pratappur	Narotampur	39	1	98	River	8.5109	
Pratappur	Narotampur	39	1	153	River	7.1647	
Pratappur	Narotampur	39	1	158	River	1.2521	
				TOTAL AREA		19.9724	

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_60,62, Block -Pratappur, District - Chatra, JHARKHAND



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PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P7	249078.848	2686041.43	24°16' 2.126" N	84°31' 42.167" E
P8	249106.5702	2686022.675	24°16' 1.540" N	84°31' 43.161" E
P5	248815.6541	2686108.306	24°16' 4.147" N	84°31' 32.799" E
P6	248863.2037	2686111.978	24°16' 4.234" N	84°31' 34.481" E
P1	248163.8752	2686202.595	24°16' 6.833" N	84°31' 9.644" E
P2	248382.6248	2686381.731	24°16' 12.779" N	84°31' 17.282" E
P3	248370.3381	2686375.995	24°16' 12.586" N	84°31' 16.850" E
P4	248172.593	2686200.446	24°16' 6.769" N	84°31' 9.954" E

Proposed Area in Ha of 60 - 0.43

Proposed Area in Ha of 62 - 1.25

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_IN_HECTE	REMARKS
Pratappur	Phagua	79	2	37	River	8.0213	
Pratapur	Phagua	79	2	103	River	4.9016	
				TOTAL AREA		12.9703	

Conversion Scale

0 100 200 300 400 Metres

0 5 10 15 20 Centimetres

1 C.M. = 20 Metres

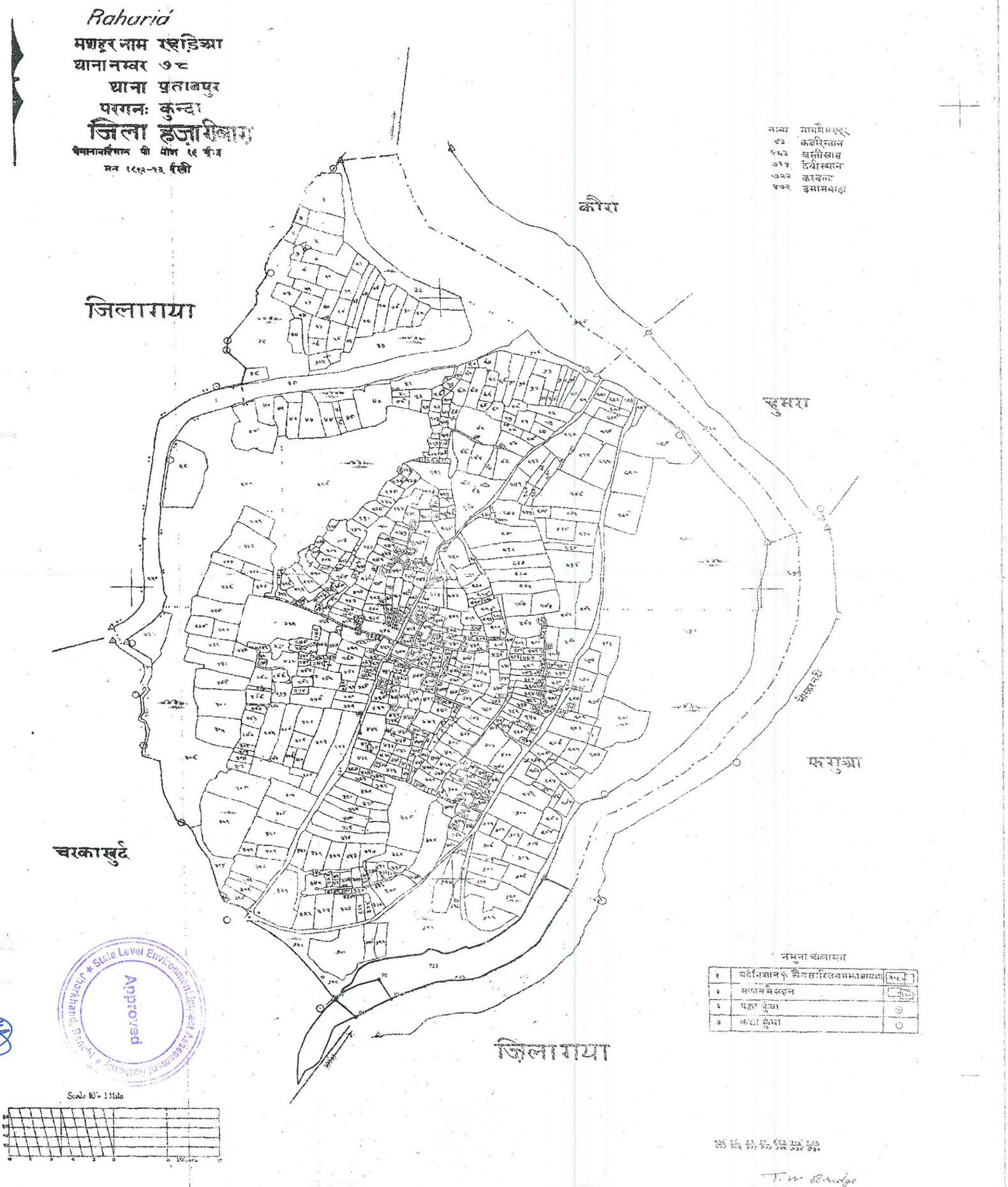
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi

T. Sen Bridge.
Superintendent of Survey

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE-WISE AREA

Proposed Ghat of PO_CH_PR_MH_54, Block -Pratappur, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	246745.3392	2687614.796	24°16' 51.885" N	84°30' 18.482" E
P2	246829.6727	2687657.203	24°16' 53.311" N	84°30' 21.443" E
P3	246852.3861	2687616.651	24°16' 52.007" N	84°30' 22.274" E
P4	246783.5181	2687579.353	24°16' 50.756" N	84°30' 19.857" E

Proposed Area in Ha of 54- 1.11

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratappur	Raharia	78	1	723	River	8.2384	
				TOTAL AREA		8.2384	

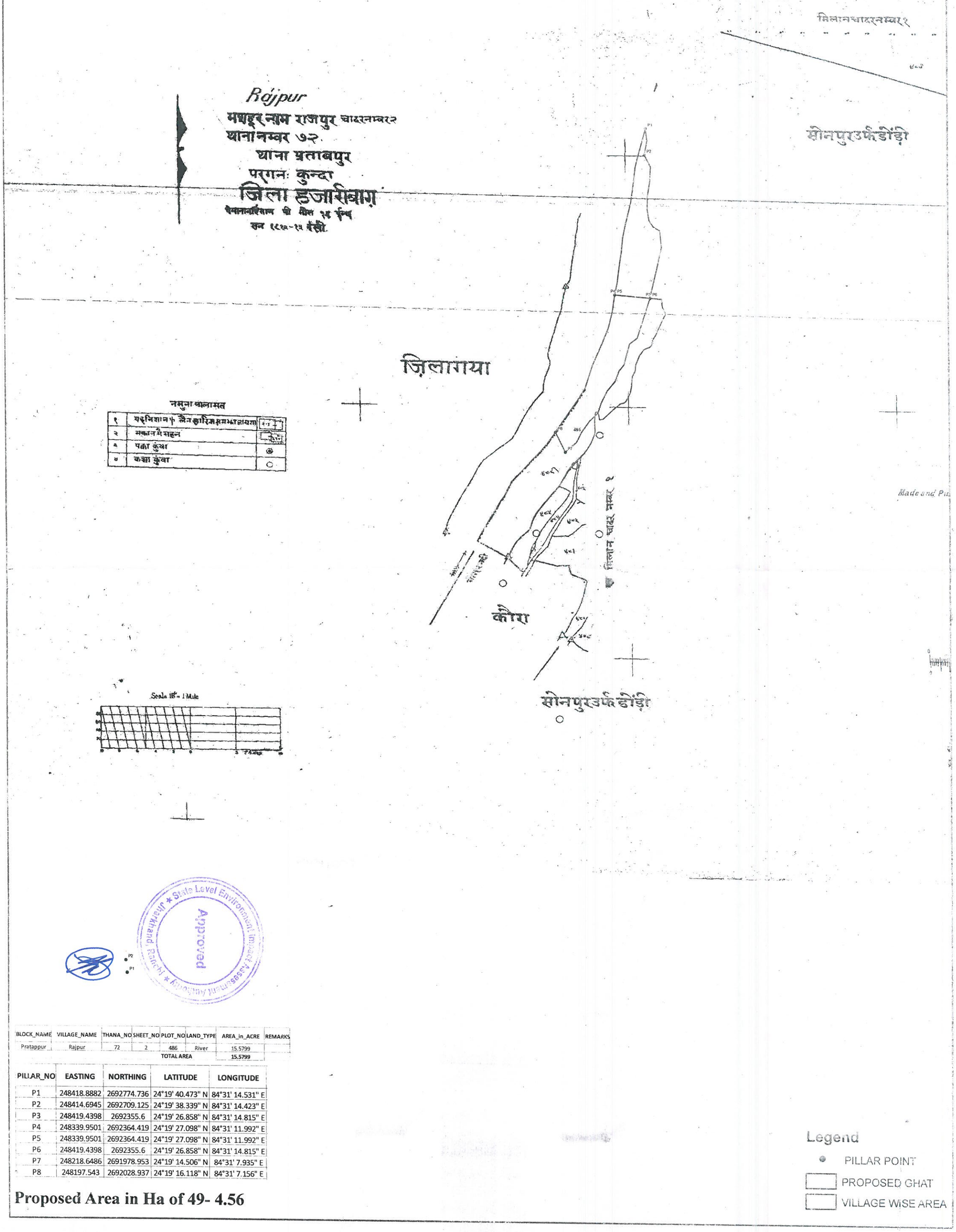
Superintendent of Survey

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_49, Block -Pratappur, District - Chatra, JHARKHAND





BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratappur	Rajpur	72	2	486	River	15.5799	
					TOTAL AREA	15.5799	

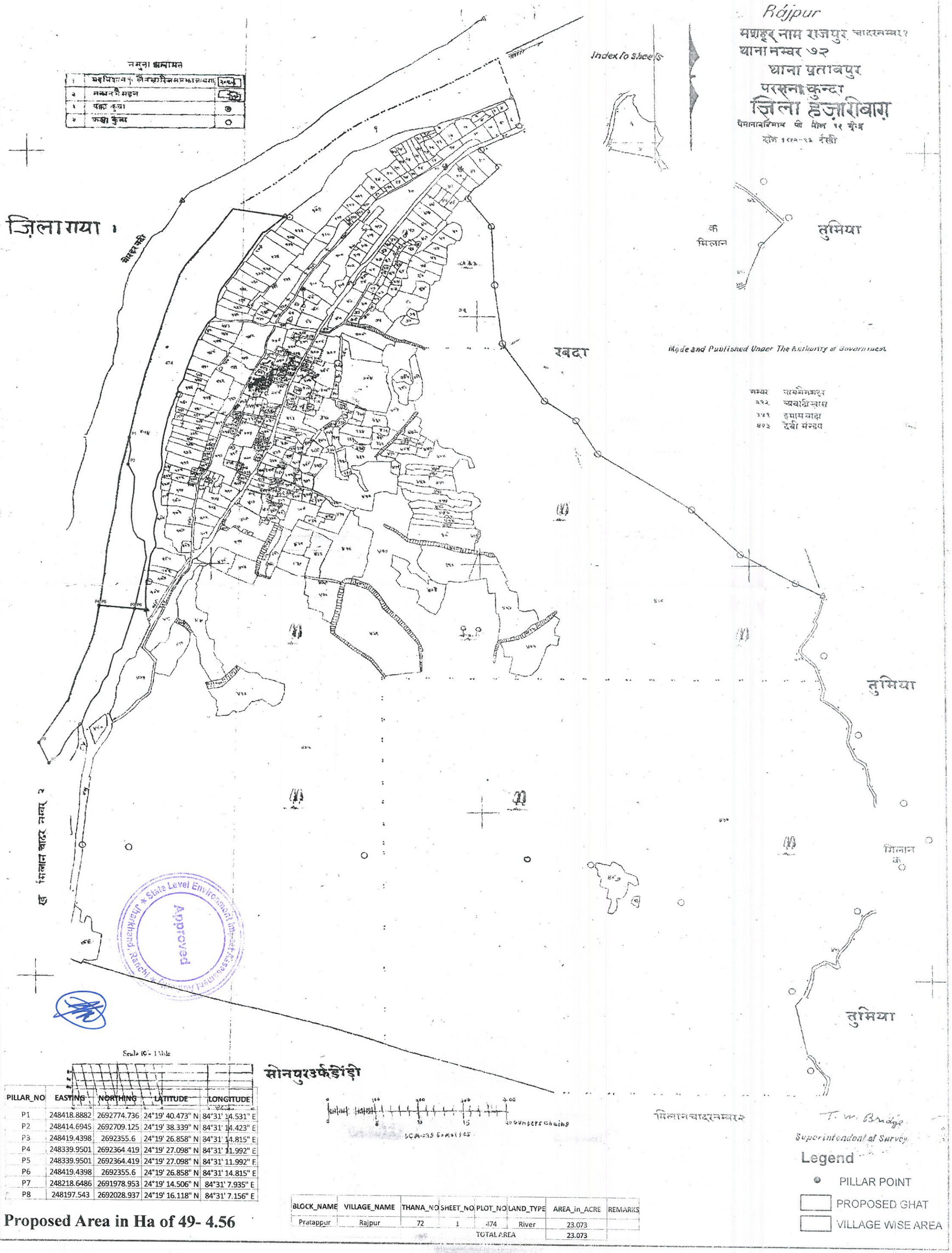
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	248418.8882	2692774.736	24°19' 40.473" N	84°31' 14.531" E
P2	248414.6945	2692709.125	24°19' 38.339" N	84°31' 14.423" E
P3	248419.4398	2692355.6	24°19' 26.858" N	84°31' 14.815" E
P4	248339.9501	2692364.419	24°19' 27.098" N	84°31' 11.992" E
P5	248339.9501	2692364.419	24°19' 27.098" N	84°31' 11.992" E
P6	248419.4398	2692355.6	24°19' 26.858" N	84°31' 14.815" E
P7	248218.6486	2691978.953	24°19' 14.506" N	84°31' 7.935" E
P8	248197.543	2692028.937	24°19' 16.118" N	84°31' 7.156" E

Proposed Area in Ha of 49- 4.56

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_49, Block -Pratappur, District - Chatra, JHARKHAND



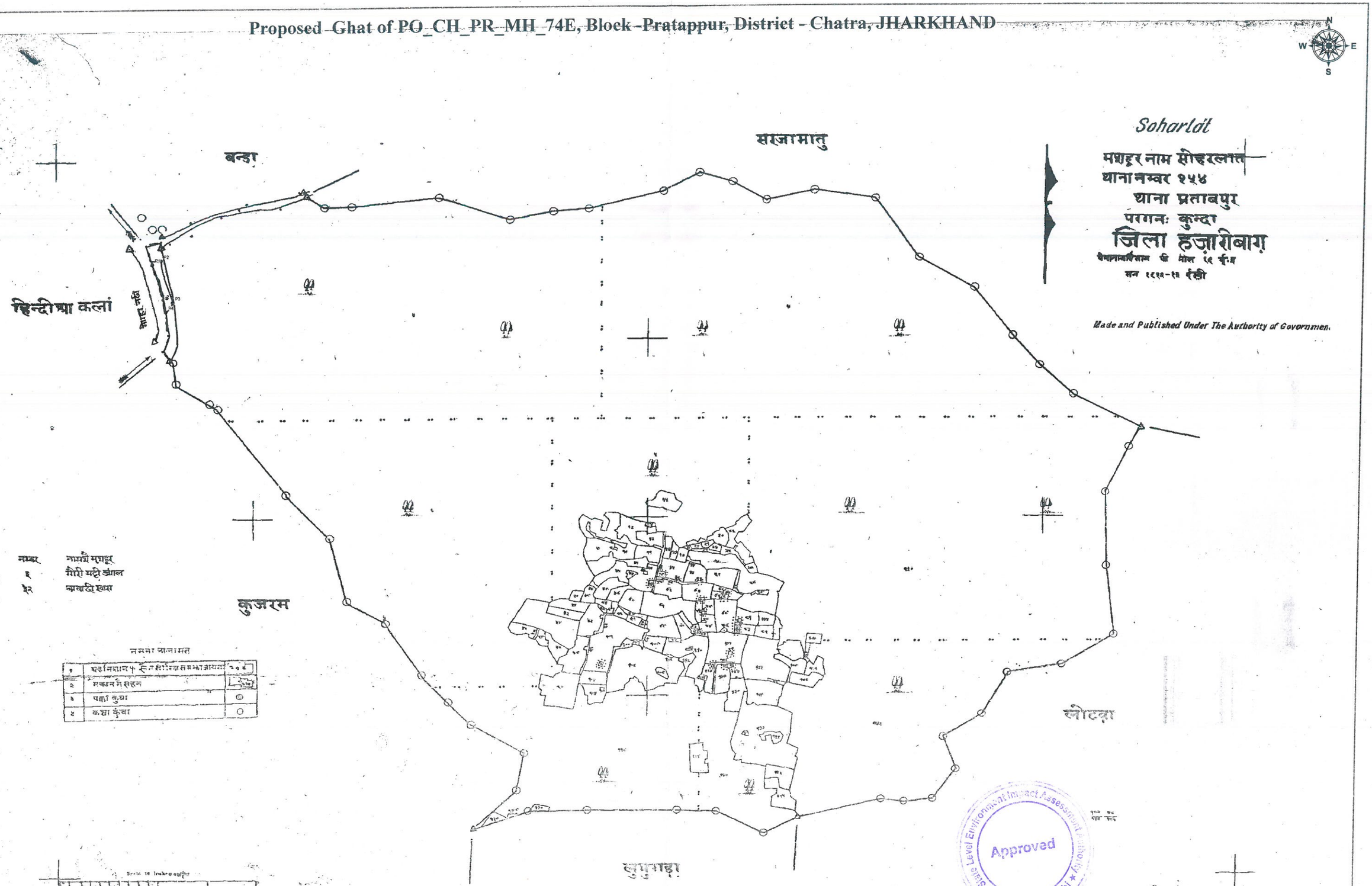
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	248418.8882	2692774.736	24°19' 40.473" N	84°31' 14.531" E
P2	248414.6945	2692709.125	24°19' 38.339" N	84°31' 14.423" E
P3	248419.4398	2692355.6	24°19' 26.858" N	84°31' 14.815" E
P4	248339.9501	2692364 419	24°19' 27.098" N	84°31' 11.992" E
P5	248339.9501	2692364.419	24°19' 27.098" N	84°31' 11.992" E
P6	248419.4398	2692355.6	24°19' 26.858" N	84°31' 14.815" E
P7	248218.6486	2691978.953	24°19' 14.506" N	84°31' 7.935" E
P8	248197.543	2692028.937	24°19' 16.118" N	84°31' 7.156" E

Proposed Area in Ha of 49- 4.56

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratappur	Rajpur	72	1	474	River	23.073	
					TOTAL AREA	23.073	

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_74E, Block -Pratappur, District - Chatra, JHARKHAND

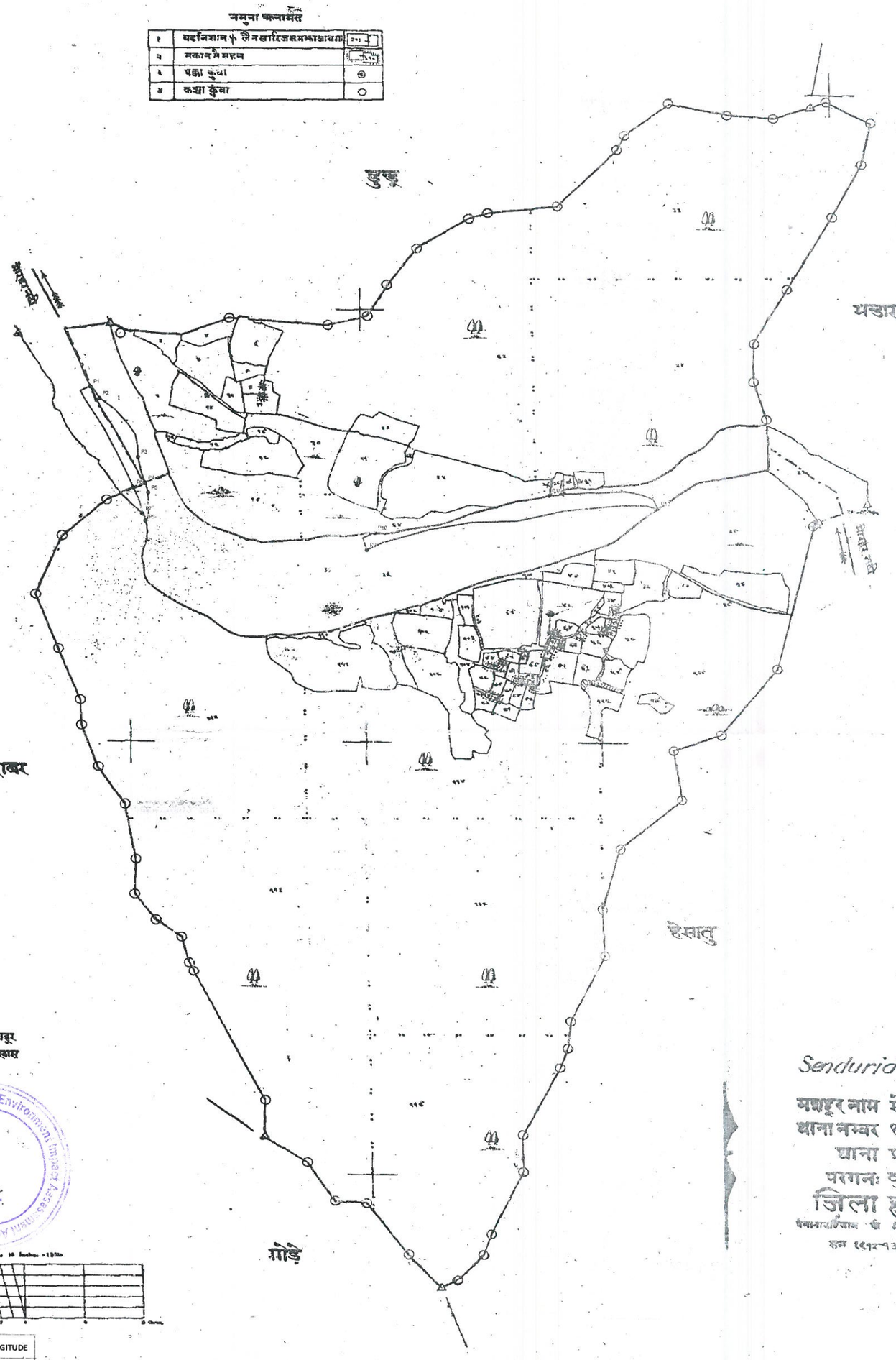


PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	254654.9396	2680997.72	24°13' 21.454" N	84°35' 2.856" E
P2	254673.2317	2681005.759	24°13' 21.725" N	84°35' 3.499" E
P3	254695.6311	2680910.978	24°13' 18.658" N	84°35' 4.351" E
P4	254681.1455	2680890.131	24°13' 17.973" N	84°35' 3.851" E

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratappur	Saharlat	154	1	2	River	1.3919	
				TOTAL AREA		1.3919	

Proposed Area in Ha of 74E - 0.18

Proposed Ghat of PO_CH_PR_MH_67,69, Block -Pratappur, District - Chatra, JHARKHAND



Senduria
मधुर नाम सेन्दुरिया
थाना नम्बर १३४
थाना प्रतापपुर
परगनः कुच्चा
जिला हजारीबाग

T. M. Bridge
Superintendent of Survey

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	251788.6029	2685138.515	24°15' 34.348" N	84°33' 18.749" E
P2	251803.7778	2685116.227	24°15' 33.633" N	84°33' 19.301" E
P3	251866.7781	2685004.512	24°15' 30.039" N	84°33' 21.603" E
P4	251877.8085	2684956.563	24°15' 28.488" N	84°33' 22.023" E
P5	251882.2778	2684938.23	24°15' 27.895" N	84°33' 22.195" E
P6	251876.6517	2684885.573	24°15' 26.181" N	84°33' 22.026" E
P7	251871.764	2684898.931	24°15' 26.612" N	84°33' 21.845" E
P8	251857.083	2684948.445	24°15' 28.213" N	84°33' 21.294" E
P9	252254.2438	2684826.191	24°15' 24.467" N	84°33' 35.442" E
P10	252268.9798	2684857.79	24°15' 25.502" N	84°33' 35.945" E
P11	252568.912	2684923.836	24°15' 27.818" N	84°33' 46.531" E
P12	252754.9558	2684896.699	24°15' 27.042" N	84°33' 53.140" E

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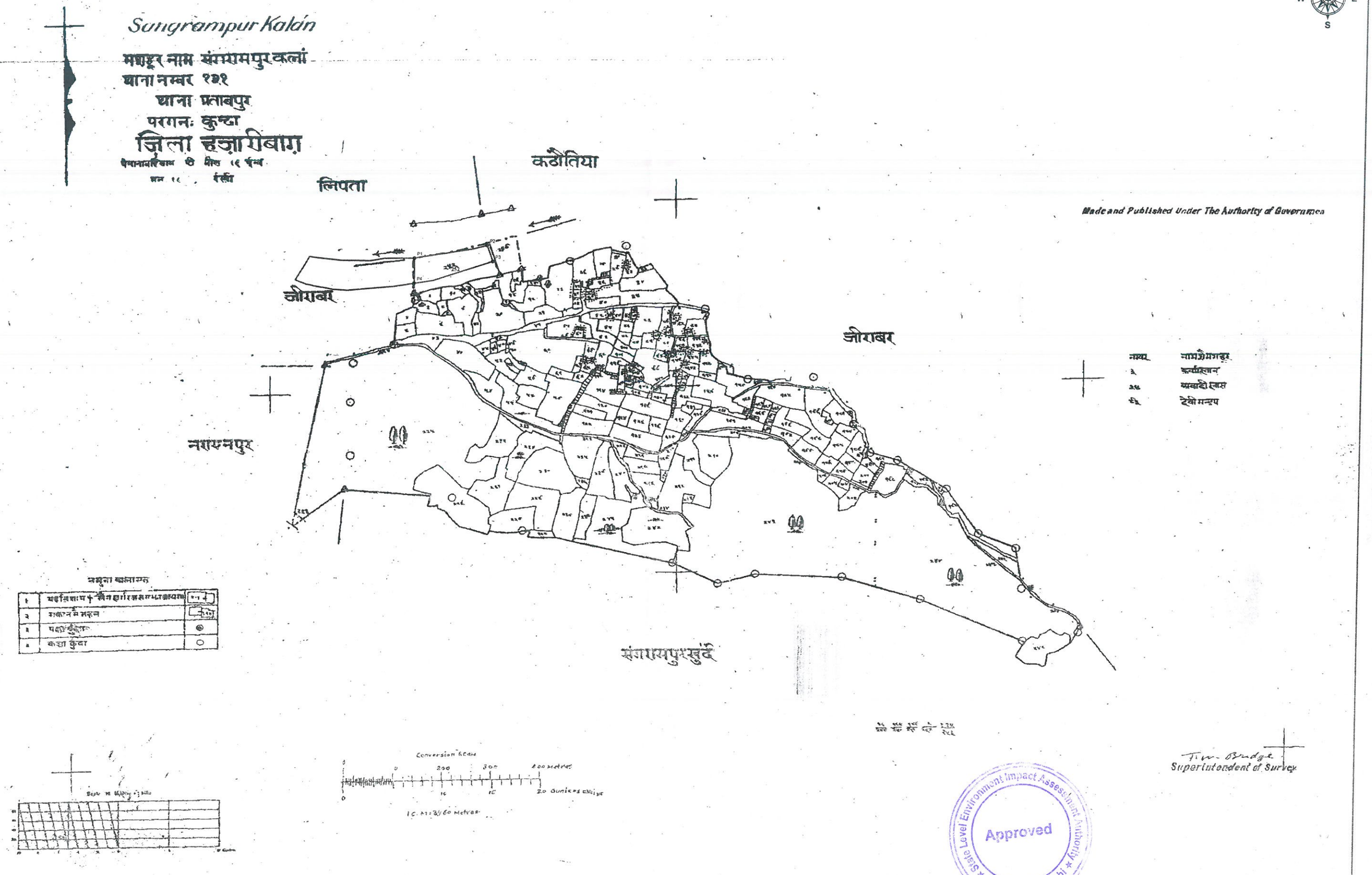
BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratappur	Senduria	134	1	1	River	4.9232	
Pratappur	Sendurid	134	1	36	River	36.3962	
				TOTAL AREA		41.3194	

Proposed Area in Ha of 67- 0.74
Proposed Area in Ha of 69- 1.13

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_64, Block -Pratappur, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	249960.3564	2685270.638	24°15' 37.594" N	84°32' 13.886" E
P2	250106.2047	2685293.884	24°15' 38.433" N	84°32' 19.039" E
P3	250116.8296	2685258.699	24°15' 37.296" N	84°32' 19.438" E
P4	249959.2254	2685215.664	24°15' 35.808" N	84°32' 13.880" E

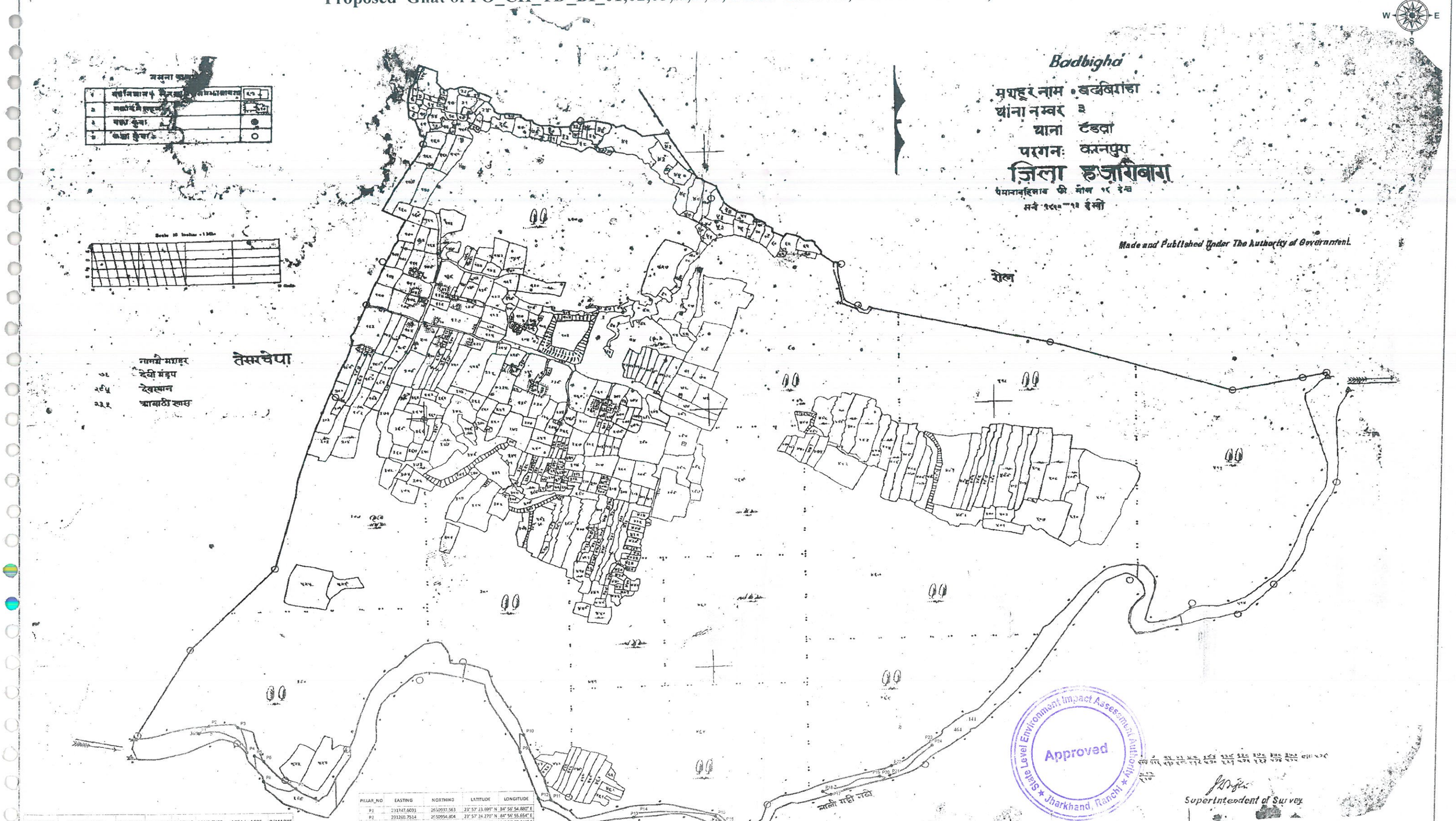
BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
Pratappur	Sungrampur Kalan	131	1	252	River	2.9148	
				TOTAL AREA		2.9148	

Proposed Area in Ha of 64- 2.11

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_TD_BI_01,02,03,A,B,C, Block -Tandwa, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
Tandwa	Badbigha	3	1	369	River	10.0298	
Tandwa	Badbigha	3	1	464	River	12.2653	
				TOTAL AREA		22.2951	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	291247.6031	2650937.563	23° 57' 23.699" N	84° 56' 54.880" E
P2	291269.7514	2650954.804	23° 57' 24.270" N	84° 56' 55.654" E
P3	291331.5315	2650950.194	23° 57' 24.143" N	84° 56' 57.841" E
P4	291350.2372	2650891.441	23° 57' 22.249" N	84° 56' 58.533" E
P5	291365.7607	2650883.525	23° 57' 21.999" N	84° 56' 59.086" E
P6	291385.5966	2650869.79	23° 57' 21.562" N	84° 56' 59.794" E
P7	291452.73	2650805.162	23° 57' 19.394" N	84° 57' 2.791" E
P8	291449.8262	2650800.013	23° 57' 19.321" N	84° 57' 2.793" E
P9	291931.6628	2650876.44	23° 57' 22.036" N	84° 57' 19.100" E
P10	291933.7043	2650916.334	23° 57' 23.376" N	84° 57' 19.364" E
P11	291905.016	2650764.365	23° 57' 18.425" N	84° 57' 21.397" E
P12	291968.9087	2650768.19	23° 57' 18.545" N	84° 57' 20.475" E
P13	292170.6515	2650719.311	23° 57' 17.042" N	84° 57' 27.631" E
P14	292178.8805	2650729.042	23° 57' 17.362" N	84° 57' 27.917" E
P15	292345.153	2650717.966	23° 57' 17.081" N	84° 57' 33.802" E
P16	292362.4644	2650701.191	23° 57' 16.544" N	84° 57' 34.422" E
P17	292592.6092	2650752.984	23° 57' 18.660" N	84° 57' 42.529" E
P18	292573.4976	2650770.021	23° 57' 18.880" N	84° 57' 41.920" E
P19	292695.7691	2650802.837	23° 57' 20.003" N	84° 57' 46.156" E
P20	292695.7691	2650802.837	23° 57' 20.003" N	84° 57' 46.156" E
P21	292716.9919	2650805.111	23° 57' 20.067" N	84° 57' 46.905" E
P22	292720.6374	2650826.802	23° 57' 20.764" N	84° 57' 47.023" E
P23	292804.4285	2650881.55	23° 57' 22.912" N	84° 57' 49.960" E
P24	292807.3984	2650872.597	23° 57' 22.375" N	84° 57' 50.068" E

Proposed Area in Ha of 01- 0.19
Proposed Area in Ha of 02- 0.14
Proposed Area in Ha of 03- 0.16
Proposed Area in Ha of A- 0.19
Proposed Area in Ha of B- 0.24
Proposed Area in Ha of C- 0.35

Baki River

Proposed Ghat of PO_CH_TD_BI_27,28,29, Block -Tandwa, District - Chatra, JHARKHAND

Garilaung

मौजूद नाम गाड़ीलौंङ्ग चाटर नम्बर १
थाना नम्बर पूर्ण
थाना टंडवा
परगना: करनपुरा
जिला हजारीबाग़
सेमानाबंदोबस्त के मौजा ५४ हैं
सन १९१२-१३ ई॰सी

Made and Published Under The Authority of Government.



नम्बर	नाम मौजा हद
३११	ग्रामदीस्थान
७२३	वालीस्थान
१०६३	देवीस्थान
११४३	महादेवमन्दिर

नमूना चलानात

१	पक्का निशान / लैन्ड मार्क्स सम्भाव्यता	३०'
२	मकान में रहन	
३	पक्का कुंवा	◎
४	कच्चा कुंवा	○

Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi

Superintendent of Survey

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	297609.7297	2640513.167	23° 51' 47.899" N	85° 0' 45.032" E
P2	297674.6117	2640545.258	23° 51' 48.972" N	85° 0' 47.310" E
P3	297773.2887	2640506.386	23° 51' 47.754" N	85° 0' 50.815" E
P4	297736.9075	2640488.224	23° 51' 47.147" N	85° 0' 49.539" E
P5	297842.3926	2640479.774	23° 51' 46.920" N	85° 0' 53.271" E
P6	297790.9342	2640503.585	23° 51' 47.671" N	85° 0' 51.441" E
P7	297990.7137	2640517.533	23° 51' 48.215" N	85° 0' 58.492" E
P8	297929.8998	2640477.795	23° 51' 46.896" N	85° 0' 56.364" E

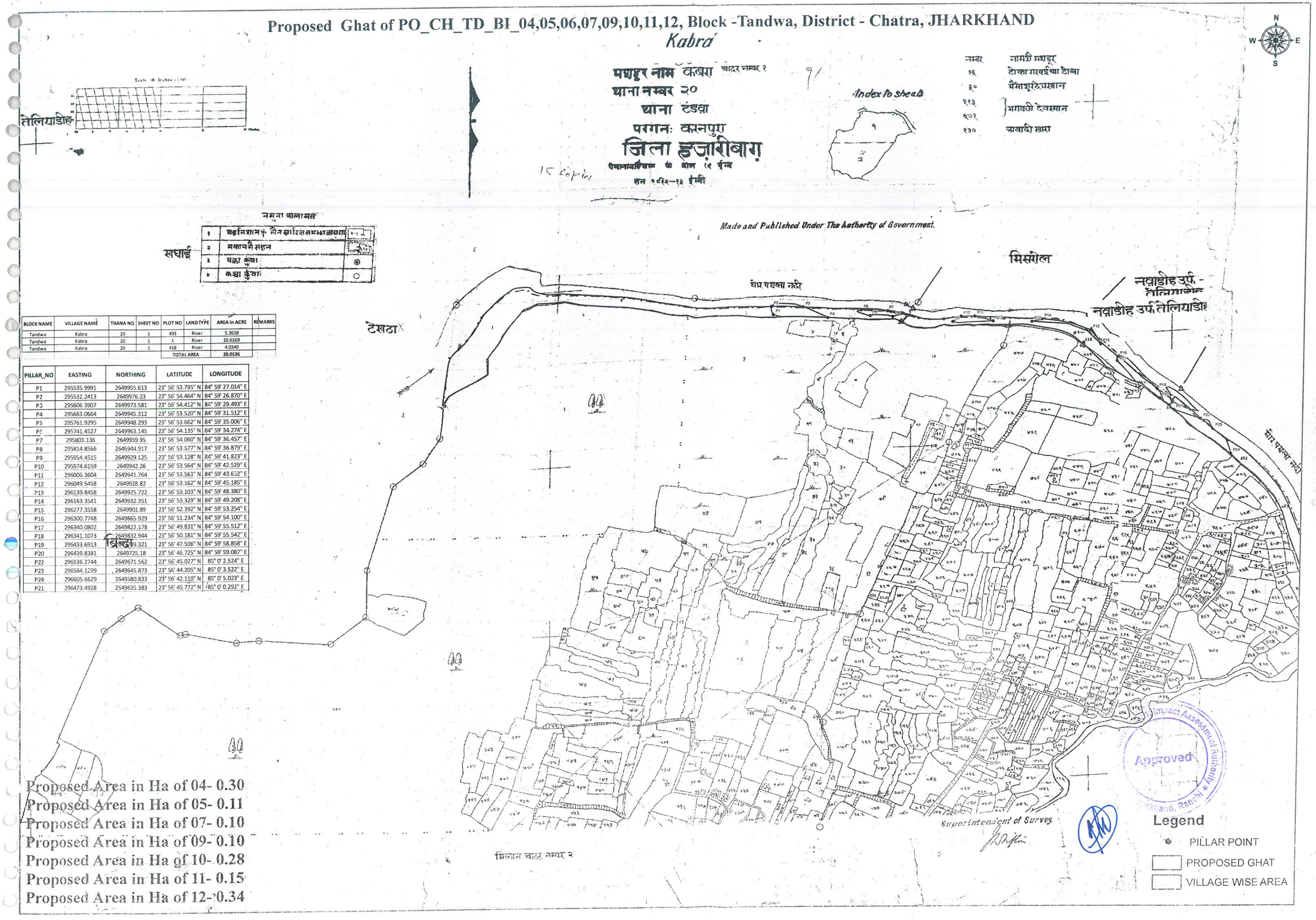
Proposed Area in Ha of 27- 0.42
Proposed Area in Ha of 28- 0.61
Proposed Area in Ha of 29- 0.37

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA In ACRE	REMARKS
Tandwa	Garilaung	59	1	1	River	7.1553	
				TOTAL AREA		7.1553	

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_TD_BI_04,05,06,07,09,10,11,12, Block -Tandwa, District - Chatra, JHARKHAND

Kabra



नमुना अलामत

१	बहनिशान + लैन खारिज समझा जाय	
२	मकान मै सहन	
३	पक्का कुंवा	◉
४	कच्चा कुंवा	○

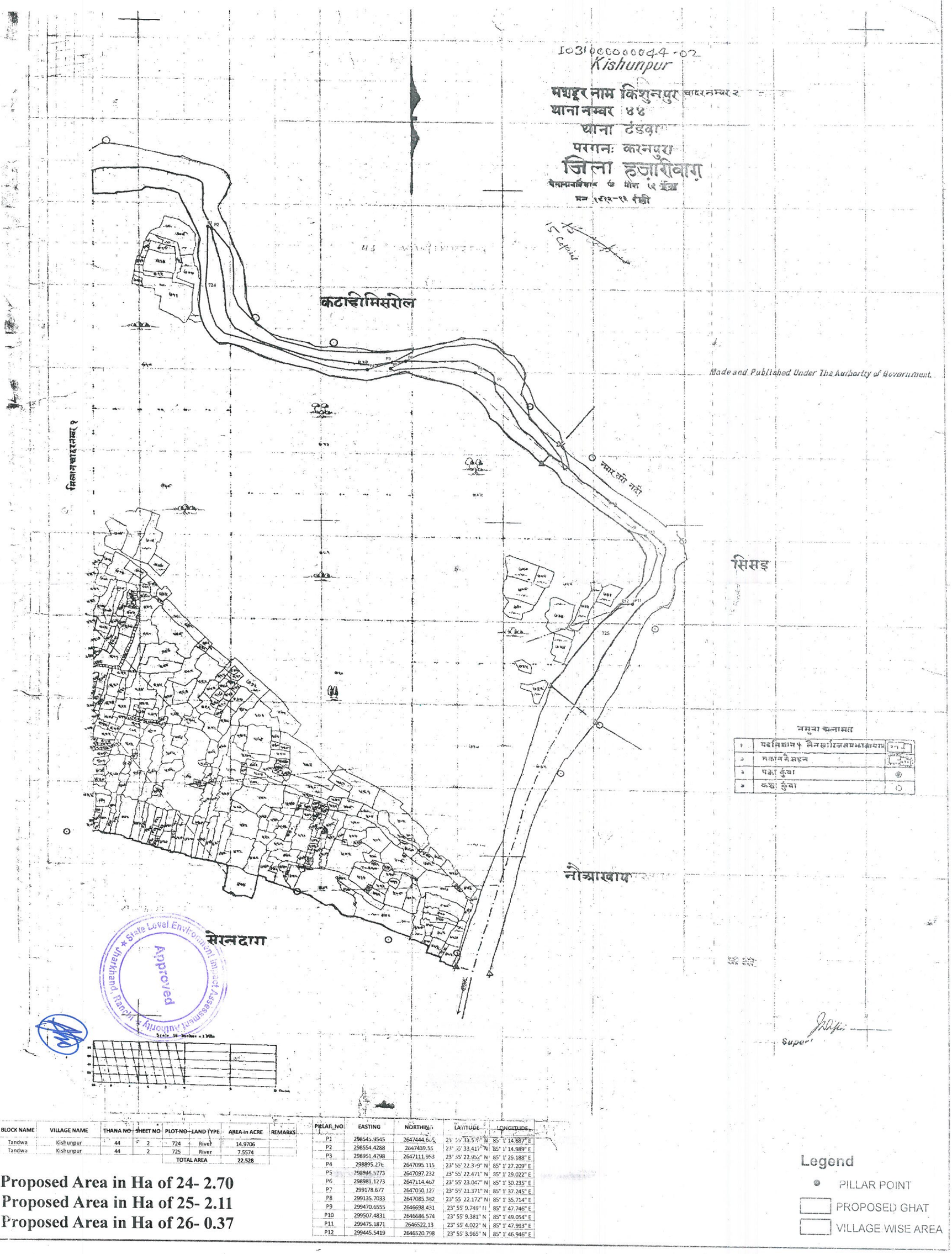
खधाई

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
Tandwa	Kabra	20	1	493	River	5.3618	
Tandwa	Kabra	20	1	1	River	10.6169	
Tandwa	Kabra	20	1	418	River	4.0349	
				TOTAL AREA		20.0136	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	295535.9991	2649955.613	23° 56' 53.795" N	84° 59' 27.014" E
P2	295532.2413	2649976.23	23° 56' 54.464" N	84° 59' 26.870" E
P3	295606.3907	2649973.581	23° 56' 54.412" N	84° 59' 29.493" E
P4	295663.0664	2649945.312	23° 56' 53.520" N	84° 59' 31.512" E
P5	295761.9295	2649948.293	23° 56' 53.662" N	84° 59' 35.006" E
P6	295741.4527	2649963.145	23° 56' 54.135" N	84° 59' 34.274" E
P7	295803.136	2649959.95	23° 56' 54.060" N	84° 59' 36.457" E
P8	295814.8566	2649944.917	23° 56' 53.577" N	84° 59' 36.879" E
P9	295954.4515	2649929.125	23° 56' 53.128" N	84° 59' 41.823" E
P10	295974.6159	2649942.26	23° 56' 53.564" N	84° 59' 42.529" E
P11	296006.3604	2649941.764	23° 56' 53.563" N	84° 59' 43.652" E
P12	296049.5458	2649928.82	23° 56' 53.162" N	84° 59' 45.185" E
P13	296139.8458	2649925.722	23° 56' 53.103" N	84° 59' 48.380" E
P14	296163.3541	2649932.351	23° 56' 53.329" N	84° 59' 49.208" E
P15	296277.3558	2649901.89	23° 56' 52.392" N	84° 59' 53.254" E
P16	296300.7748	2649865.929	23° 56' 51.234" N	84° 59' 54.100" E
P17	296340.0802	2649822.178	23° 56' 49.831" N	84° 59' 55.512" E
P18	296341.1073	2649832.944	23° 56' 50.181" N	84° 59' 55.542" E
P19	296433.6913	[illegible]9.321	23° 56' 47.506" N	84° 59' 58.858" E
P20	296439.8381	2649725.18	23° 56' 46.725" N	84° 59' 59.087" E
P22	296536.2744	2649671.562	23° 56' 45.027" N	85° 0' 2.524" E
P23	296564.1299	2649645.873	23° 56' 44.205" N	85° 0' 3.522" E
P24	296605.6629	2649580.833	23° 56' 42.110" N	85° 0' 5.023" E
P21	296473.4928	2649695.383	23° 56' 45.772" N	85° 0' 0.292" E

Proposed Area in Ha of 04- 0.30
Proposed Area in Ha of 05- 0.11
Proposed Area in Ha of 07- 0.10
Proposed Area in Ha of 09- 0.10
Proposed Area in Ha of 10- 0.28
Proposed Area in Ha of 11- 0.15
Proposed Area in Ha of 12- 0.34

Proposed Ghat of PO_CH_TD_BI_24,25,26, Block -Tandwa, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
Tandwa	Kishunpur	44	2	724	River	14.9706	
Tandwa	Kishunpur	44	2	725	River	7.5574	
				TOTAL AREA		22.528	

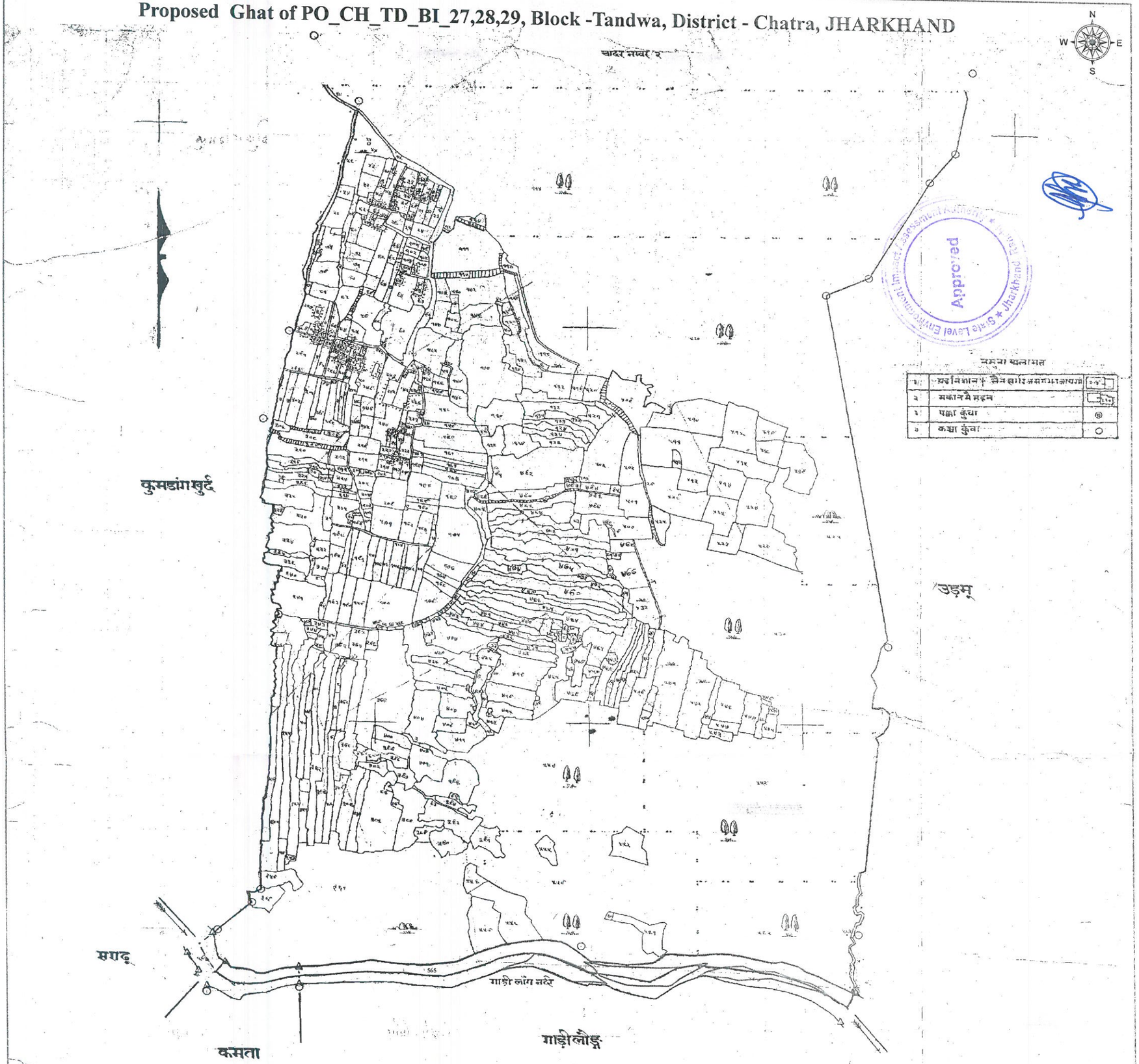
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	298545.9545	2647444.665	23° 55' 33.573" N	85° 1' 14.687" E
P2	298554.4288	2647439.55	23° 55' 33.417" N	85° 1' 14.989" E
P3	298951.4798	2647111.953	23° 55' 22.952" N	85° 1' 29.188" E
P4	298895.276	2647095.115	23° 55' 22.349" N	85° 1' 27.209" E
P5	298946.5773	2647097.232	23° 55' 22.471" N	85° 1' 29.022" E
P6	298981.1273	2647114.467	23° 55' 23.047" N	85° 1' 30.235" E
P7	299178.677	2647050.127	23° 55' 21.371" N	85° 1' 37.245" E
P8	299135.7033	2647085.382	23° 55' 22.172" N	85° 1' 35.714" E
P9	299470.6555	2646698.431	23° 55' 9.749" N	85° 1' 47.746" E
P10	299507.4831	2646686.574	23° 55' 9.381" N	85° 1' 49.054" E
P11	299475.1871	2646522.13	23° 55' 4.022" N	85° 1' 47.993" E
P12	299445.5419	2646520.798	23° 55' 3.965" N	85° 1' 46.946" E

Proposed Area in Ha of 24- 2.70
Proposed Area in Ha of 25- 2.11
Proposed Area in Ha of 26- 0.37

नमुना अलामत	
१	यहसिमान१ लैनसीजसमझाजाय
२	मकानमैमहल
३	पक्का कुंवा
४	कच्चा कुंवा

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_TD_BI_27,28,29, Block -Tandwa, District - Chatra, JHARKHAND



Approved

१	[illegible]	[illegible]
२	मकान मै महल	[illegible]
३	पक्का कुंवा	◉
४	कच्चा कुंवा	○

नम्बर	नामशै मशहूर
१८	आबादी खास
५५	देवस्थान
११२	भगवती महरानी देवस्थान
४५८ / ४६२	देवस्थान

Made and Published Under The Authority of Government.

Kumráng Kalán

03

मशहूर नाम कुमड़ांगकलां चादर नम्बर ३

थाना नम्बर ५२

थाना टंडवा

परगनः करनपुरा

जिला हज़ारीबाग़

पैमानाबर्हिसाब पी मील १९ ईंच

सन १९६२–१३ ईसवी

Superintendent of Survey.

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
Tandwa	Kumrang Kalan	52	3	565	River	7.866	
				TOTAL AREA		7.866	

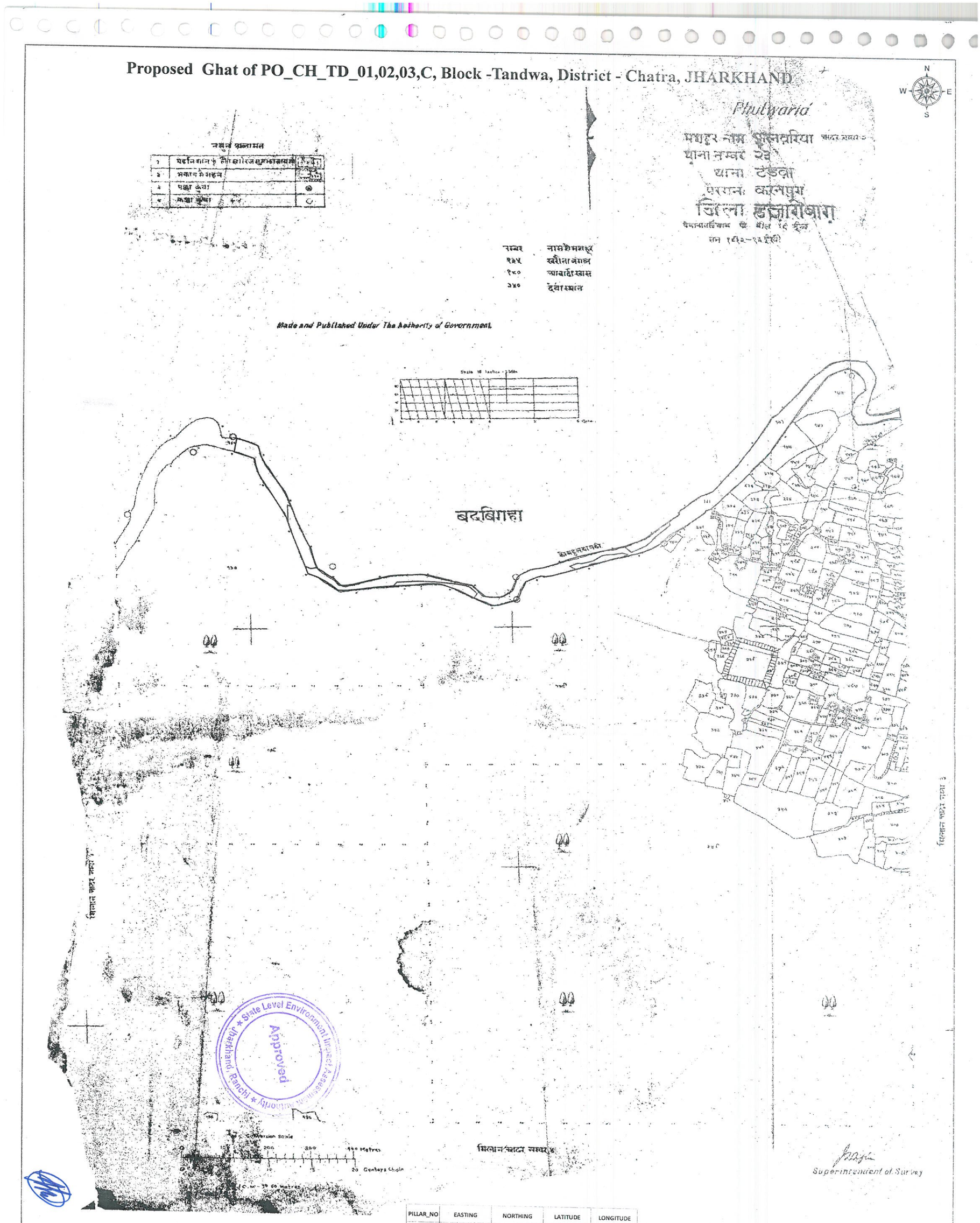
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	297790.9342	2640503.585	23° 51' 47.671" N	85° 0' 51.441" E
P2	297808.5443	2640518.976	23° 51' 48.179" N	85° 0' 52.055" E
P3	297903.5942	2640513.824	23° 51' 48.055" N	85° 0' 55.417" E
P4	297990.7137	2640517.533	23° 51' 48.215" N	85° 0' 58.493" E
P5	298025.8095	2640513.389	23° 51' 48.096" N	85° 0' 59.735" E
P6	298065.6244	2640516.781	23° 51' 48.225" N	85° 1' 1.141" E
P7	298195.3383	2640478.974	23° 51' 47.055" N	85° 1' 5.743" E
P8	298224.4605	2640455.532	23° 51' 46.306" N	85° 1' 6.784" E
P9	297981.6587	2640496.643	23° 51' 47.532" N	85° 0' 58.184" E
P10	298025.8095	2640513.389	23° 51' 48.096" N	85° 0' 59.735" E
P11	298224.4605	2640455.532	23° 51' 46.306" N	85° 1' 6.784" E
P12	298118.8076	2640490.359	23° 51' 47.390" N	85° 1' 3.033" E

Proposed Area in Ha of 27- 0.42
Proposed Area in Ha of 28- 0.61
Proposed Area in Ha of 29- 0.37

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_TD_01,02,03,C, Block -Tandwa, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
Tandwa	Phulwaria	23	2	141	River	13.7493	
				TOTAL AREA		13.7493	

Proposed Area in Ha of 01- 019
Proposed Area in Ha of 02- 0.14
Proposed Area in Ha of03- 0.16
Proposed Area in Ha of C- 0.35

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P9	291931.6628	2650876.44	23° 57' 22.036" N	84° 57' 19.100" E
P10	291939.7048	2650916.034	23° 57' 23.326" N	84° 57' 19.364" E
P11	291980.2988	2650817.876	23° 57' 20.156" N	84° 57' 20.850" E
P12	291968.9987	2650768.48	23° 57' 18.545" N	84° 57' 20.475" E
P13	292170.6515	2650719.311	23° 57' 17.042" N	84° 57' 27.631" E
P14	292178.8805	2650729.042	23° 57' 17.362" N	84° 57' 27.917" E
P15	292345.153	2650717.966	23° 57' 17.081" N	84° 57' 33.802" E
P16	292355.8925	2650689.986	23° 57' 16.176" N	84° 57' 34.196" E
P17	292592.6092	2650762.984	23° 57' 18.660" N	84° 57' 42.529" E
P18	292575.4976	2650770.021	23° 57' 18.880" N	84° 57' 41.920" E
P19	292683.9406	2650790.05	23° 57' 19.582" N	84° 57' 45.744" E
P20	292695.7691	2650802.837	23° 57' 20.003" N	84° 57' 46.156" E
P21	292716.9919	2650805.111	23° 57' 20.087" N	84° 57' 46.905" E
P22	292720.6324	2650826.802	23° 57' 20.794" N	84° 57' 47.023" E
P23	292804.6379	2650831.667	23° 57' 22.616" N	84° 57' 49.965" E
P24	292807.5984	2650872.597	23° 57' 22.323" N	84° 57' 50.068" E

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_TD_BI_A,B, Block -Tandwa, District - Chatra, JHARKHAND

नमूना वानामत

१	सड़क निशान + मैकडामीरजलमधाकाराया	
२	मकान में मदन	
३	पक्का कुंआ	◉
४	कच्चा कुंआ	○

Phulwaria

मशहूर नाम फुलवरिया चादर नम्बर १
थाना नम्बर २३
थाना टंडवा
परगना करनपुरा
जिला हजारीबाग
ऐमाना अन्हिसाब पो ग्रेन्ज १६ रेन्ज
सन १८८२-९२

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४	३

नम्बर	नाम मौजा मशहूर
१	सोनरहा जंगल
२	जंगल गेंदिया टांड़
३८	टोला मारंग लोहरा

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तेमरचेपा

बड़बिगहा

सोनरही

पदुमपुरा

जिला पलामू

मिलान चादर नम्बर ५

Conversion Scale

Superintendent of Survey

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
Tandwa	Phulwaria	23	1	5	River	5.1683	
					TOTAL AREA	5.1683	

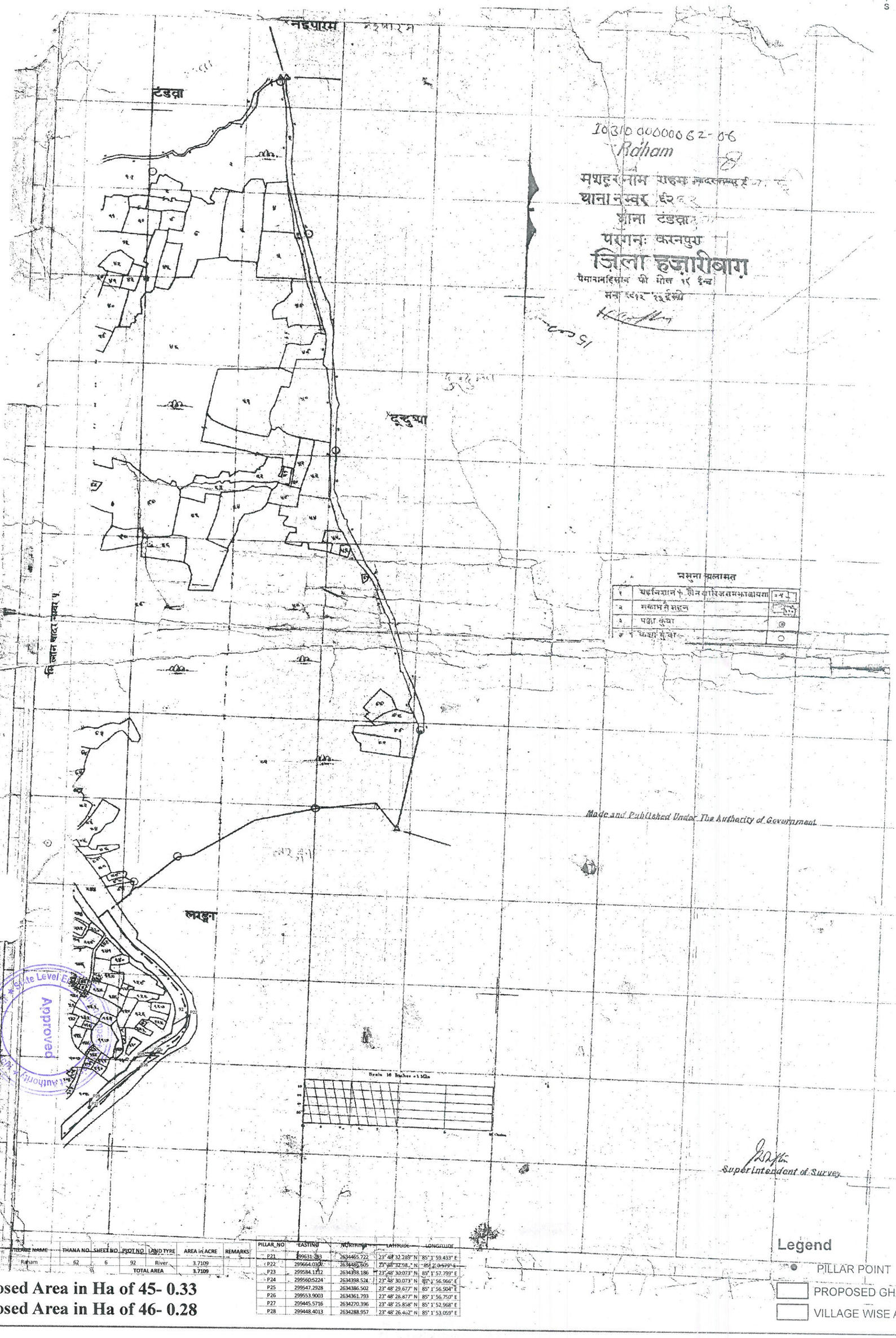
Proposed Area in Ha of A- 0.19
Proposed Area in Ha of B- 0.24

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	291247.6031	2650937.563	23° 57' 23.699" N	84° 56' 54.880" E
P2	291269.7514	2650954.804	23° 57' 24.270" N	84° 56' 55.654" E
P3	291331.5315	2650950.194	23° 57' 24.149" N	84° 56' 57.841" E
P4	291350.2372	2650891.441	23° 57' 22.249" N	84° 56' 58.533" E
P6	291385.1819	2650823.339	23° 57' 20.052" N	84° 56' 59.804" E
P5	291369.4745	2650851.559	23° 57' 20.962" N	84° 56' 59.234" E
P7	291452.73	2650805.162	23° 57' 19.494" N	84° 57' 2.201" E
P8	291384.4758	2650823.697	23° 57' 20.064" N	84° 56' 59.778" E

Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_TD_BI_45,46, Block -Tandwa, District - Chatra, JHARKHAND



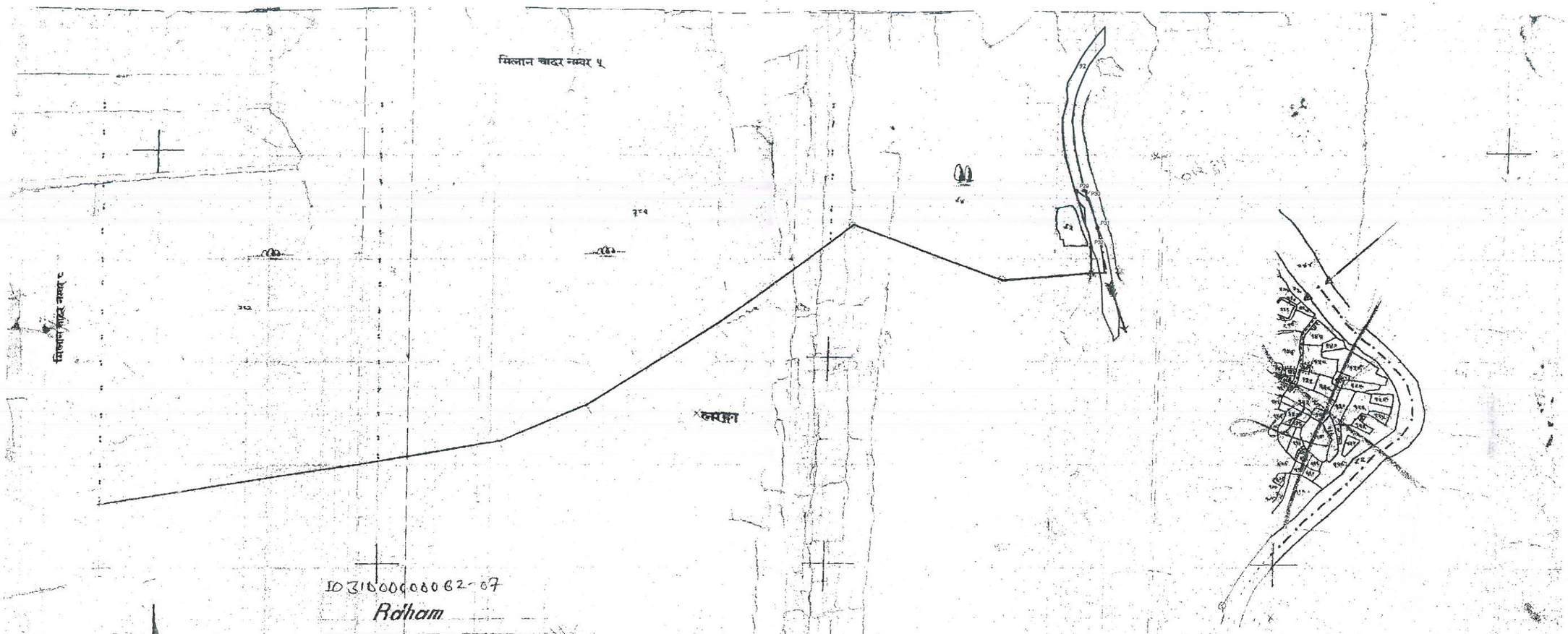
BLOCK NAME	VILLAGE NAME	THANA NO.	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
Tandwa	Raham	62	6	92	River	3.7109	
				TOTAL AREA		3.7109	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P21	299631.283	2634465.722	23° 48' 32.289" N	85° 1' 59.433" E
P22	299664.0307	2634486.605	23° 48' 32.98" N	85° 2' 0.579" E
P23	299584.1112	2634398.186	23° 48' 30.073" N	85° 1' 57.799" E
P24	299560.5224	2634398.524	23° 48' 30.073" N	85° 1' 56.966" E
P25	299547.2928	2634386.502	23° 48' 29.677" N	85° 1' 56.504" E
P26	299553.9003	2634361.793	23° 48' 28.877" N	85° 1' 56.750" E
P27	299445.5716	2634270.396	23° 48' 25.858" N	85° 1' 52.968" E
P28	299448.4013	2634288.957	23° 48' 26.462" N	85° 1' 53.059" E

Proposed Area in Ha of 45- 0.33
Proposed Area in Ha of 46- 0.28

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_TD_BI_47, Block -Tandwa, District - Chatra, JHARKHAND





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Raham

मशहूर नाम राहम चादर नम्बर ७

थाना नम्बर ६२

थाना टंडवा

परगना करनपुरा

ज़िला हज़ारीबाग़

मैनाबाद हिसाब फी मील १६ इंच

सन १८९२-९३ ईस्वी

१	यह निशान [illegible]	[illegible]
२	मकान [illegible]	[illegible]
३	पक्का कुंआ	⊙
४	कच्चा कुंआ	○

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Superintendent of Survey

State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
Tandwa	Ranam	62	7	92	River	2.0274	
					TOTAL AREA	2.0274	

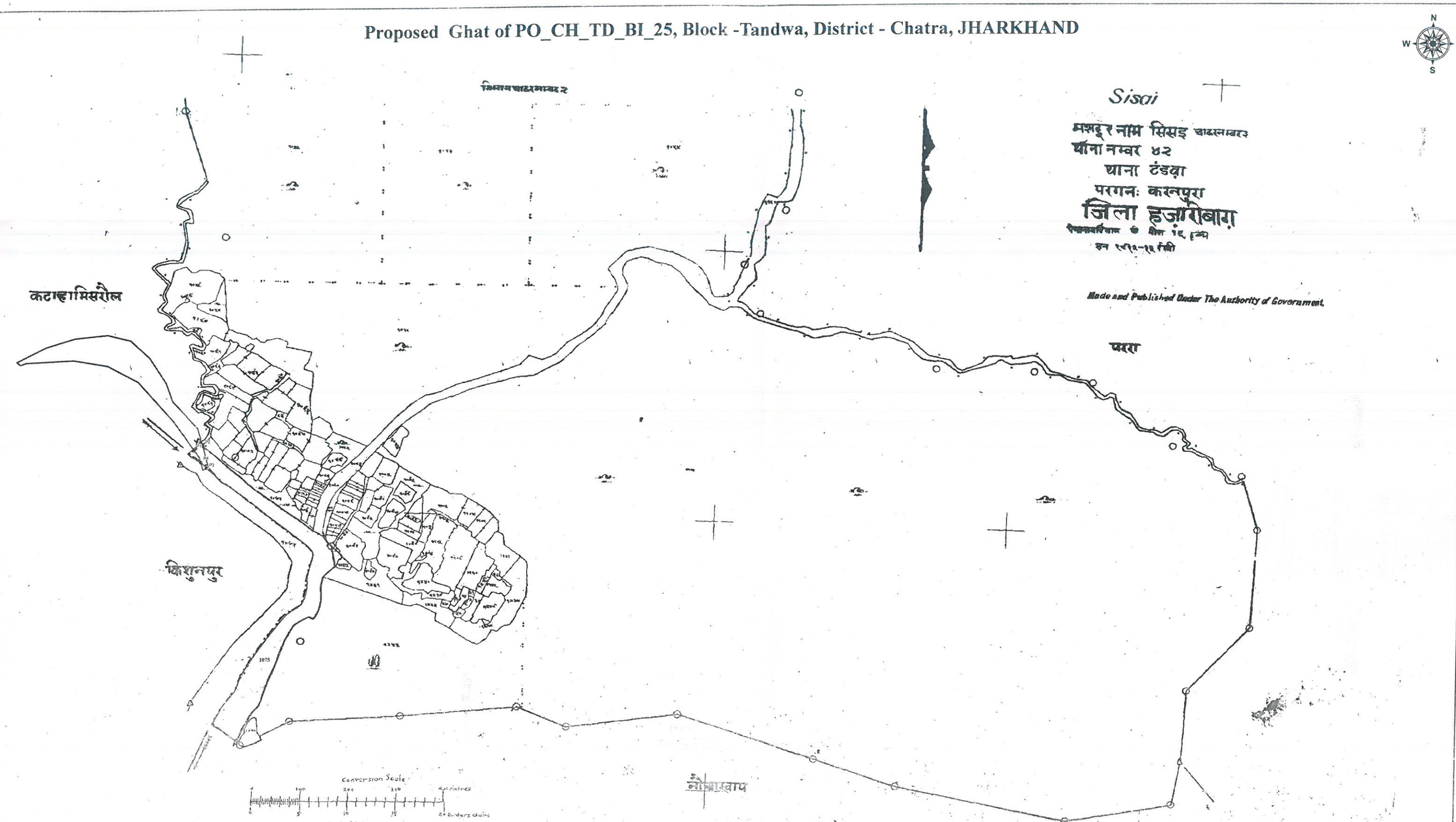
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P29	299335.3978	2633925.785	23° 48' 14.609" N	85° 1' 49.246" E
P30	299354.7608	2633911.044	23° 48' 14.139" N	85° 1' 49.937" E
P31	299370.8668	2633856.998	23° 48' 12.390" N	85° 1' 50.532" E
P32	299360.0776	2633821.686	23° 48' 11.237" N	85° 1' 50.169" E

Proposed Area in Ha of 47- 0.52

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_TD_BI_25, Block -Tandwa, District - Chatra, JHARKHAND

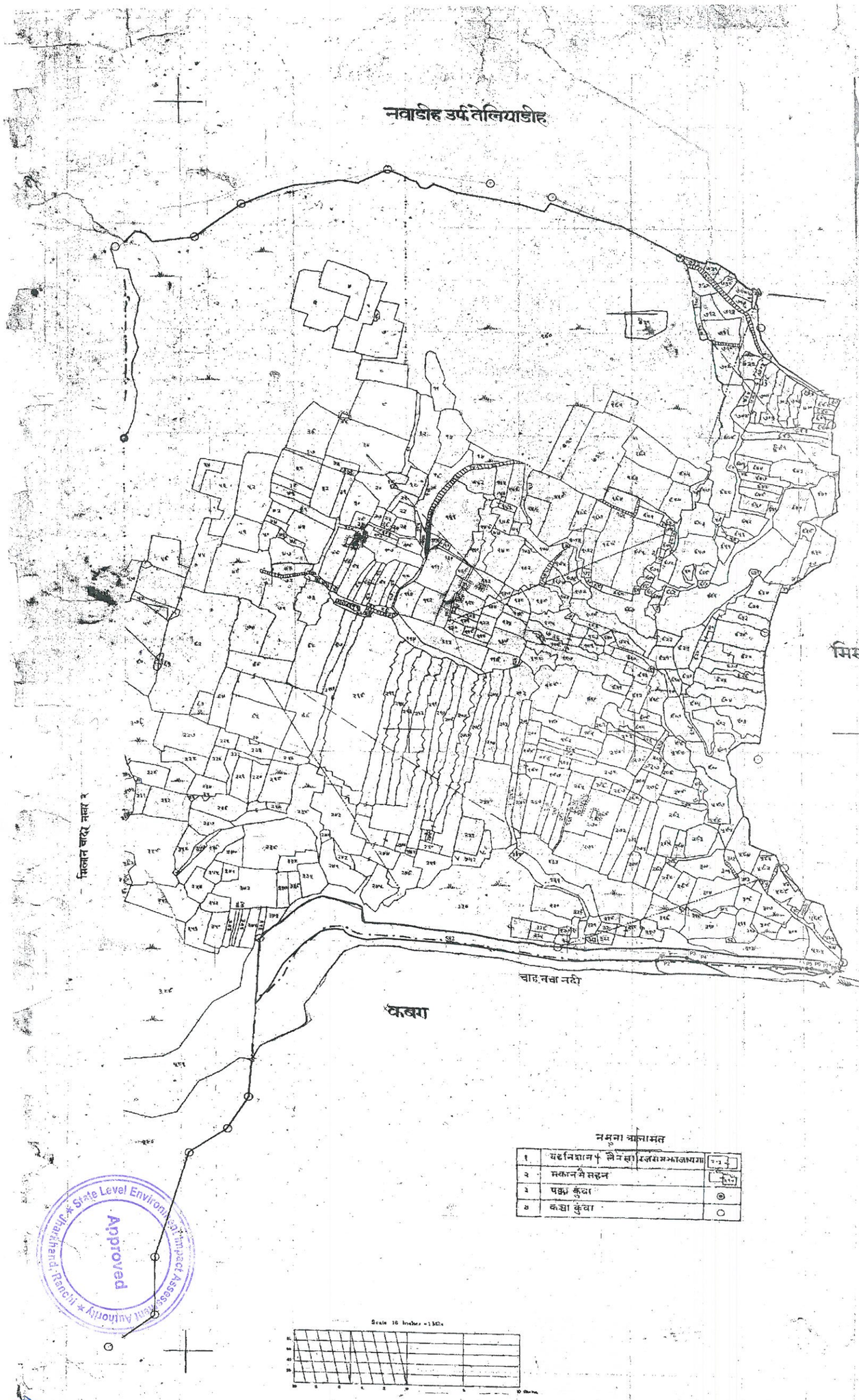


BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
Tandwa	Sisai	42	3	1075	River	7.6894	
				TOTAL AREA		7.8894	

Proposed Area in Ha of 25- 2.11

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	299311.7082	2646893.192	23° 55' 16.007" N	85° 1' 42.031" E
P2	299329.6109	2646902.469	23° 55' 16.316" N	85° 1' 42.659" E
P3	299337.0727	2646853.102	23° 55' 14.715" N	85° 1' 42.947" E
P4	299325.1255	2646865.559	23° 55' 15.115" N	85° 1' 42.519" E

Proposed Ghat of PO_CH_TD_04,05, Block -Tandwa, District - Chatra, JHARKHAND



Tekhtha

मौजा नाम टेखटा जारी नम्बर

थाना नम्बर २२

थाना टंडवा

परगना: करनपुरा

जिला हज़ारीबाग़

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३५	देवी मन्दिर
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४	कच्चा कुंवा	○

Scale 16 Inches = 1 Mile

Superintendent of Survey

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
Tandwa	Tekhtha	22	1	582	River	8.3731	
				TOTAL AREA		8.3731	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	295532.2433	2649976.23	23° 56' 54.464" N	84° 59' 26.870" E
P2	295540.3808	2649983.988	23° 56' 54.720" N	84° 59' 27.154" E
P3	295387.0545	2649981.207	23° 56' 54.651" N	84° 59' 28.805" E
P4	295606.3907	2649973.581	23° 56' 54.411" N	84° 59' 29.493" E
P5	295803.136	2649959.95	23° 56' 54.060" N	84° 59' 36.457" E
P6	295811.8495	2649959.727	23° 56' 54.057" N	84° 59' 36.765" E
P7	295838.1274	2649955.799	23° 56' 53.941" N	84° 59' 37.696" E
P8	295841.812	2649951.679	23° 56' 53.809" N	84° 59' 37.829" E

Proposed Area in Ha of 04- 030

Proposed Area in Ha of 05- 0.11

Legend

- PILLAR POINT
- PROPOSED CHAT
- VILLAGE WISE AREA

State Level Environmental Impact Assessment Authority * Jharkhand, Ranchi *

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Proposed Ghat of PO_CH_TD_BI_50,51, Block -Tandwa, District - Chatra, JHARKHAND

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Utrathi

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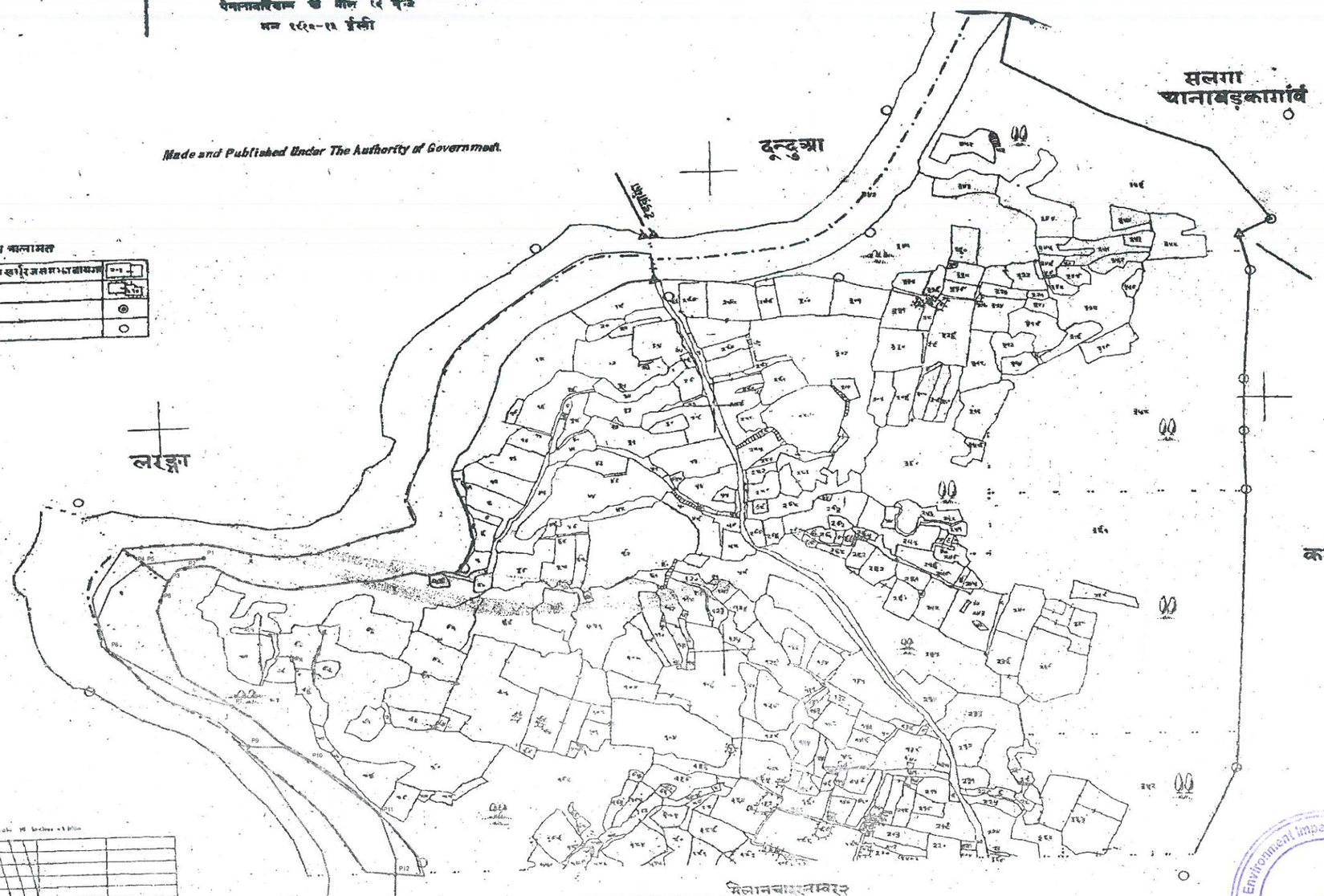

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१	मकान मय सहन	▭
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३	कच्चा कुंवा	○

Conversion Scale
100 0 100 200 300 400 Metres
5 10 15 20 Gunters Chain
1 C. M = 89.60 Metres.

Superintendent of Survey.

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	299578.6184	2633653.24	23° 48' 5.862" N	85° 1' 57.971" E
P2	299549.7212	2633635.908	23° 48' 5.285" N	85° 1' 56.958" E
P3	299525.0055	2633616.413	23° 48' 4.641" N	85° 1' 56.094" E
P4	299486.8091	2633605.045	23° 48' 5.554" N	85° 1' 54.731" E
P5	299486.8091	2633605.045	23° 48' 5.554" N	85° 1' 54.731" E
P6	299511.7474	2633552.537	23° 48' 3.537" N	85° 1' 55.643" E
P7	299620.0893	2633403.058	23° 47' 57.769" N	85° 1' 55.557" E
P8	299430.0528	2633502.573	23° 48' 0.898" N	85° 1' 52.797" E
P9	299644.0515	2633326.528	23° 47' 55.599" N	85° 2' 0.436" E
P10	299737.5345	2633309.468	23° 47' 54.761" N	85° 2' 3.751" E
P11	299846.7264	2633216.894	23° 47' 51.802" N	85° 2' 7.653" E
P12	299869.4553	2633117.613	23° 47' 48.586" N	85° 2' 8.504" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
Tandwa	Utrathi	74	1	1	River	11.0084	
Tandwa	Utrathi	74	1	2	River	17.5227	
				TOTAL AREA		28.5311	

Proposed Area in Ha of 50- 1.75
Proposed Area in Ha of 51- 4.17

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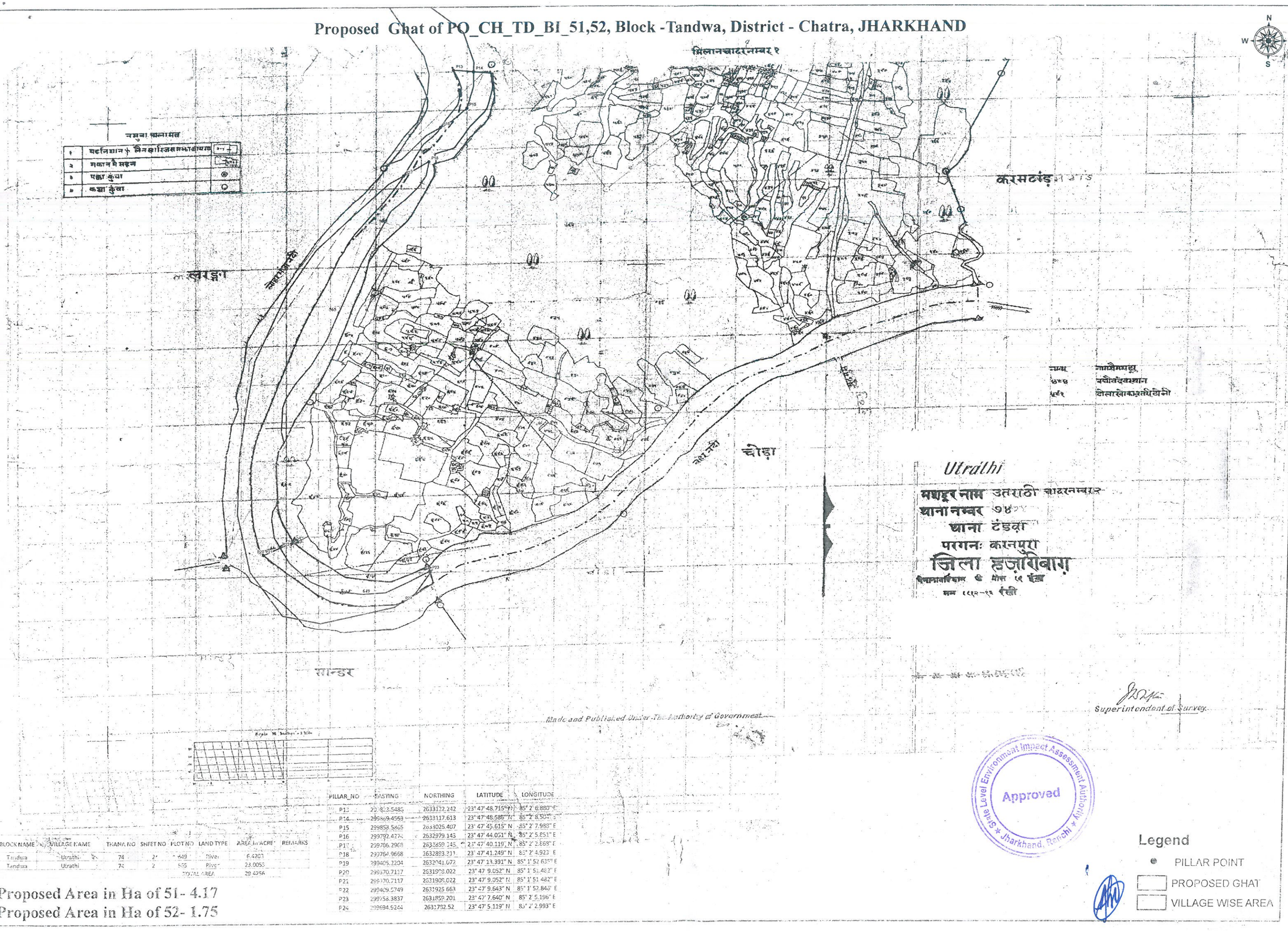
Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_TD_BI_51,52, Block -Tandwa, District - Chatra, JHARKHAND



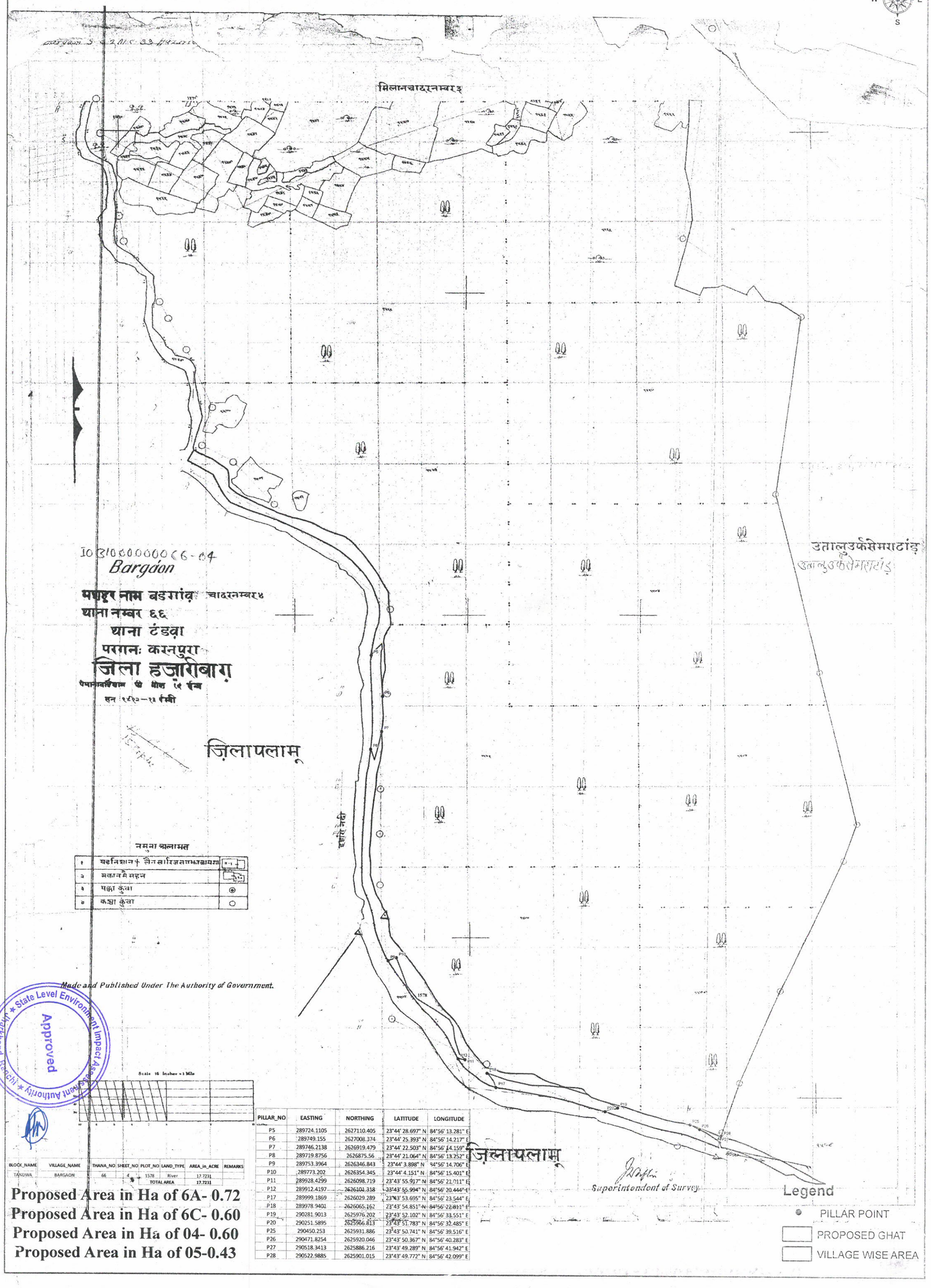
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA IN ACRE	REMARKS
Tandwa	Utrathi	74	2	649	River	6.4200	
Tandwa	Utrathi	74	2	565	River	23.0056	
					TOTAL AREA	29.4256	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P13	299823.5486	2633122.242	23° 47' 48.715" N	85° 2' 6.880" E
P14	299869.4553	2633117.613	23° 47' 48.586" N	85° 2' 8.503" E
P15	299858.5865	2633025.407	23° 47' 45.615" N	85° 2' 7.988" E
P16	299792.4274	2632979.143	23° 47' 44.051" N	85° 2' 5.851" E
P17	299706.2968	2633859.245	23° 47' 40.119" N	85° 2' 2.868" E
P18	299764.9658	2632893.231	23° 47' 41.249" N	85° 2' 4.923" E
P19	299405.2204	2632041.072	23° 47' 13.391" N	85° 1' 52.635" E
P20	299370.7117	2631908.022	23° 47' 9.052" N	85° 1' 51.482" E
P21	299370.7117	2631908.022	23° 47' 9.052" N	85° 1' 51.482" E
P22	299409.5749	2631925.663	23° 47' 9.643" N	85° 1' 52.843" E
P23	299756.3837	2631859.201	23° 47' 7.640" N	85° 2' 5.196" E
P24	299694.5244	2631792.52	23° 47' 5.119" N	85° 2' 2.993" E

Proposed Area in Ha of 51- 4.17

Proposed Area in Ha of 52- 1.75

Proposed Ghat of PO_CH_PR_MH_6A,6C,04,05, Block -Tandwa, District - Chatra, JHARKHAND



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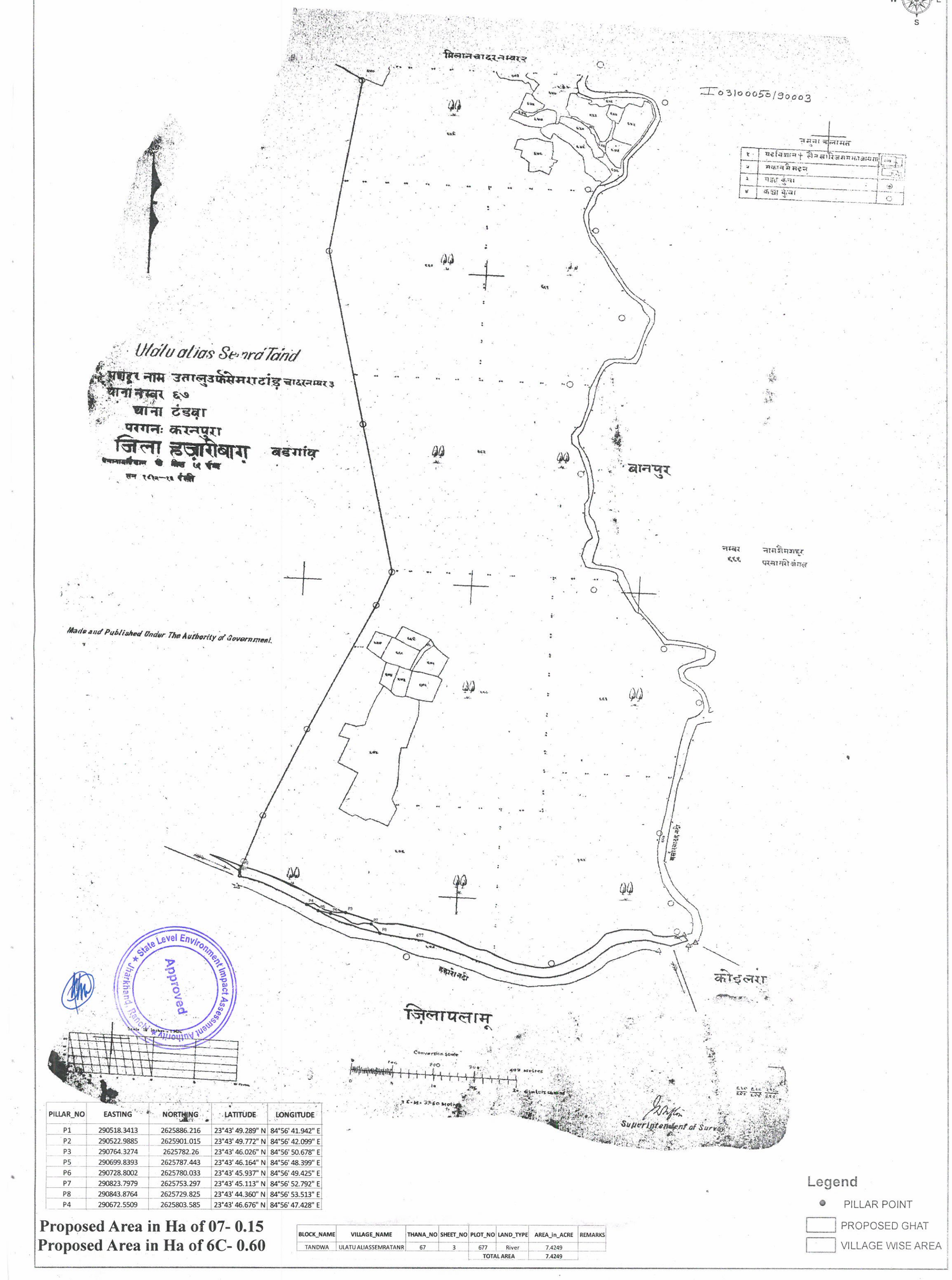
Scale 16 Inches = 1 Mile

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
TANDWA	BARGAON	66	4	1578	River	17.7231	
				TOTAL AREA		17.7231	

Proposed Area in Ha of 6A- 0.72
Proposed Area in Ha of 6C- 0.60
Proposed Area in Ha of 04- 0.60
Proposed Area in Ha of 05-0.43

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P5	289724.1105	2627110.405	23°44' 28.697" N	84°56' 13.281" E
P6	289749.155	2627008.374	23°44' 25.393" N	84°56' 14.217" E
P7	289746.2138	2626919.479	23°44' 22.503" N	84°56' 14.159" E
P8	289719.8756	2626875.56	23°44' 21.064" N	84°56' 13.252" E
P9	289753.3964	2626346.843	23°44' 3.898" N	84°56' 14.706" E
P10	289773.202	2626354.345	23°44' 4.151" N	84°56' 15.401" E
P11	289928.4299	2626098.719	23°43' 55.917" N	84°56' 21.011" E
P12	289912.4197	2626101.318	23°43' 55.994" N	84°56' 20.444" E
P17	289999.1869	2626029.289	23°43' 53.695" N	84°56' 23.544" E
P18	289978.9401	2626065.162	23°43' 54.851" N	84°56' 22.811" E
P19	290281.9013	2625976.202	23°43' 52.102" N	84°56' 33.551" E
P20	290251.5895	2625966.813	23°43' 51.783" N	84°56' 32.485" E
P25	290450.253	2625931.886	23°43' 50.741" N	84°56' 39.516" E
P26	290471.8254	2625920.046	23°43' 50.367" N	84°56' 40.283" E
P27	290518.3413	2625886.216	23°43' 49.289" N	84°56' 41.942" E
P28	290522.9885	2625901.015	23°43' 49.772" N	84°56' 42.099" E

Proposed Ghat of PO_CH_PR_MH_6C, 07, Block -Tandwa, District - Chatra, JHARKHAND



State Level Environment Impact Assessment Authority
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Jharkhand Ranchi

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	290518.3413	2625886.216	23°43' 49.289" N	84°56' 41.942" E
P2	290522.9885	2625901.015	23°43' 49.772" N	84°56' 42.099" E
P3	290764.3274	2625782.26	23°43' 46.026" N	84°56' 50.678" E
P5	290699.8393	2625787.443	23°43' 46.164" N	84°56' 48.399" E
P6	290728.8002	2625780.033	23°43' 45.937" N	84°56' 49.425" E
P7	290823.7979	2625753.297	23°43' 45.113" N	84°56' 52.792" E
P8	290843.8764	2625729.825	23°43' 44.360" N	84°56' 53.513" E
P4	290672.5509	2625803.585	23°43' 46.676" N	84°56' 47.428" E

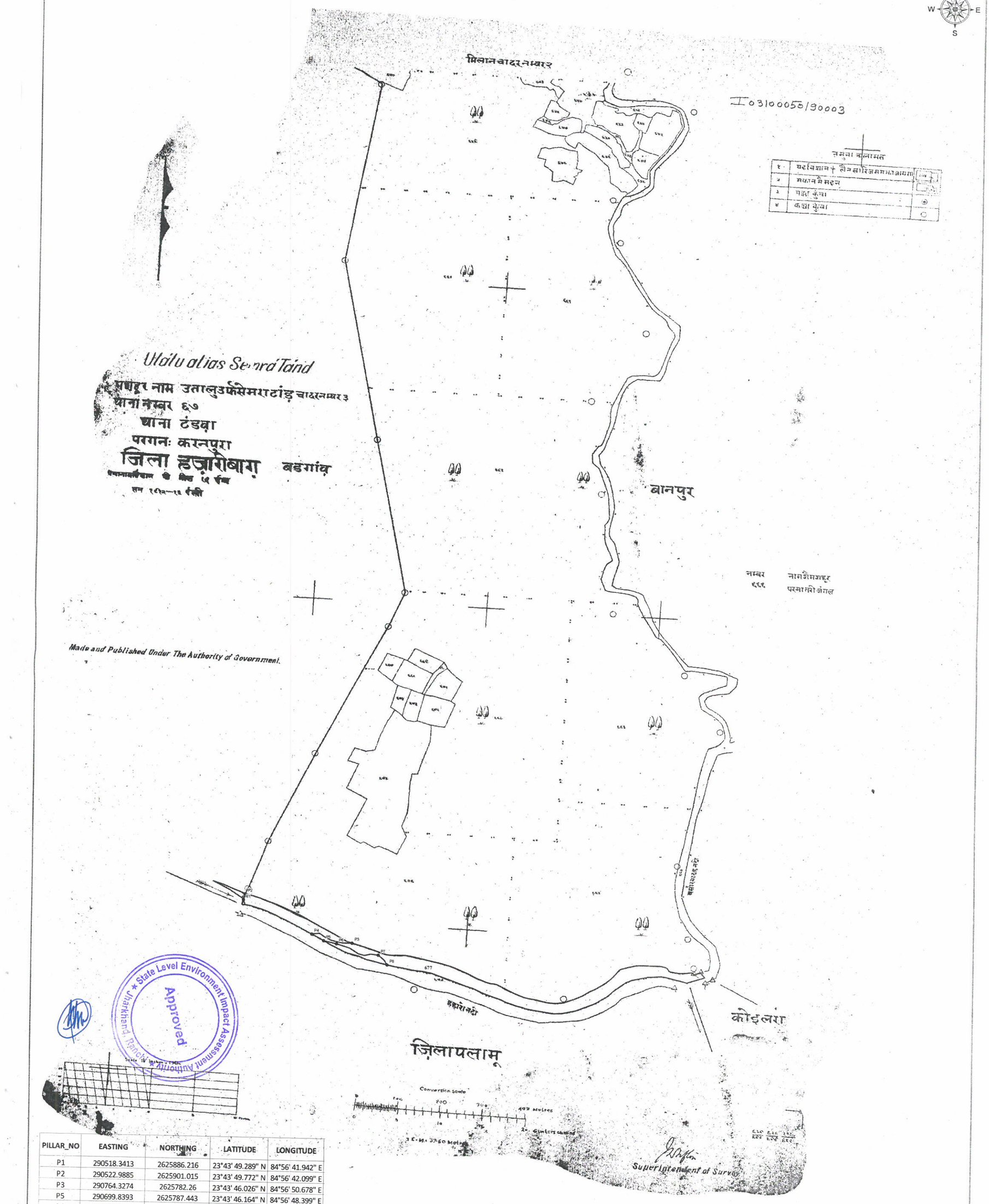
Proposed Area in Ha of 07- 0.15
Proposed Area in Ha of 6C- 0.60

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
TANDWA	ULATU ALIASSEMRATANR	67	3	677	River	7.4249	
				TOTAL AREA		7.4249	

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_6C, 07, Block -Tandwa, District - Chatra, JHARKHAND



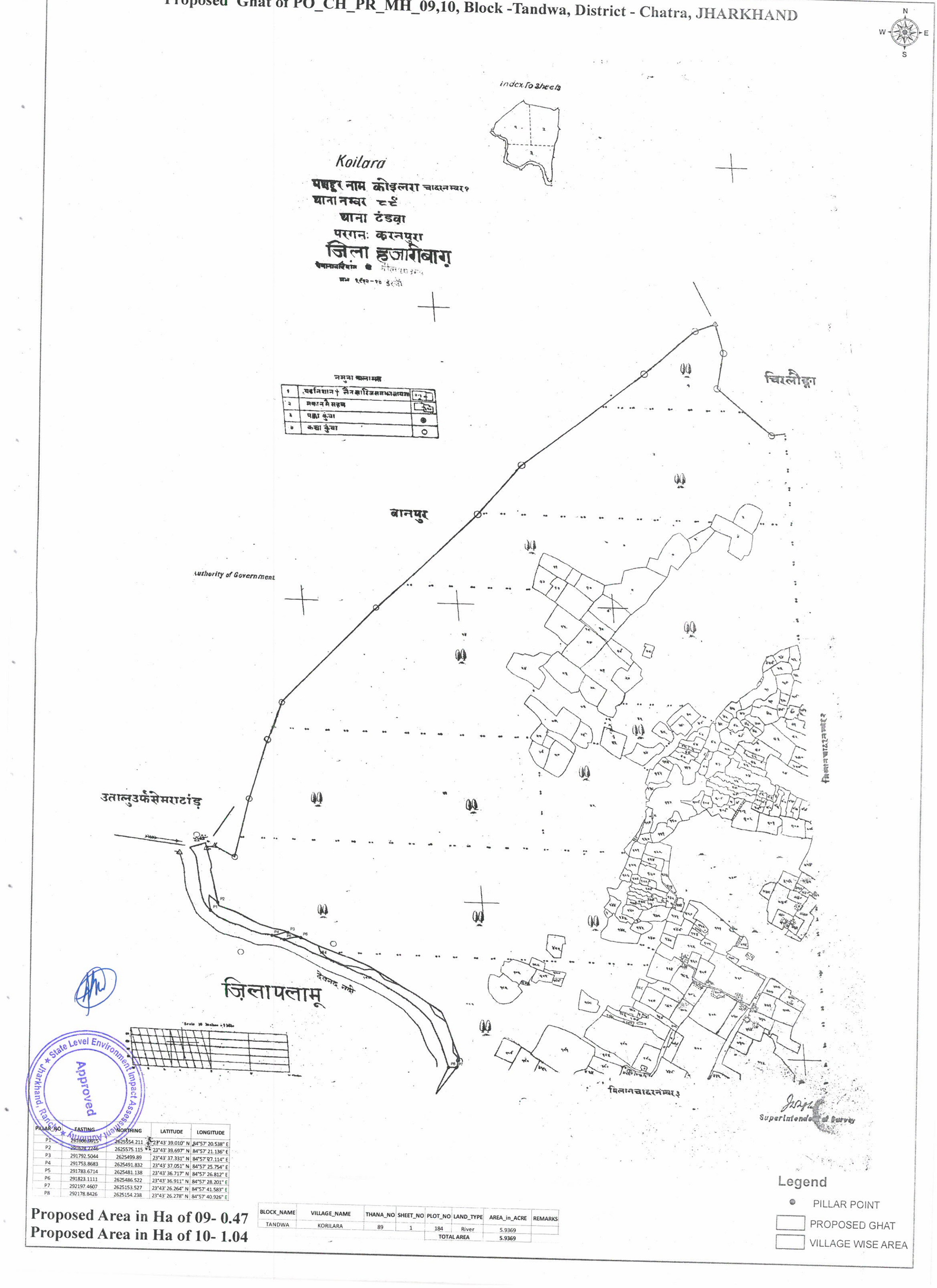
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	290518.3413	2625886.216	23°43' 49.289" N	84°56' 41.942" E
P2	290522.9885	2625901.015	23°43' 49.772" N	84°56' 42.099" E
P3	290764.3274	2625782.26	23°43' 46.026" N	84°56' 50.678" E
P5	290699.8393	2625787.443	23°43' 46.164" N	84°56' 48.399" E
P6	290728.8002	2625780.033	23°43' 45.937" N	84°56' 49.425" E
P7	290823.7979	2625753.297	23°43' 45.113" N	84°56' 52.792" E
P8	290843.8764	2625729.825	23°43' 44.360" N	84°56' 53.513" E
P4	290672.5509	2625803.585	23°43' 46.676" N	84°56' 47.428" E

Proposed Area in Ha of 07- 0.15
Proposed Area in Ha of 6C- 0.60

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
TANDWA	ULATU ALIASSEMRATANR	67	3	677	River	7.4249	
				TOTAL AREA		7.4249	

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_09,10, Block -Tandwa, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	291666.8915	2625554.211	23°43' 39.010" N	84°57' 20.538" E
P2	291624.2246	2625575.115	23°43' 39.697" N	84°57' 21.136" E
P3	291792.5044	2625499.89	23°43' 37.331" N	84°57' 27.114" E
P4	291753.8683	2625491.832	23°43' 37.051" N	84°57' 25.754" E
P5	291783.6714	2625481.138	23°43' 36.717" N	84°57' 26.812" E
P6	291823.1111	2625486.522	23°43' 36.911" N	84°57' 28.201" E
P7	292197.4607	2625153.527	23°43' 26.264" N	84°57' 41.583" E
P8	292178.8426	2625154.238	23°43' 26.278" N	84°57' 40.926" E

Proposed Area in Ha of 09- 0.47
Proposed Area in Ha of 10- 1.04

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
TANDWA	KORILARA	89	1	184	River	5.9369	
				TOTAL AREA		5.9369	

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

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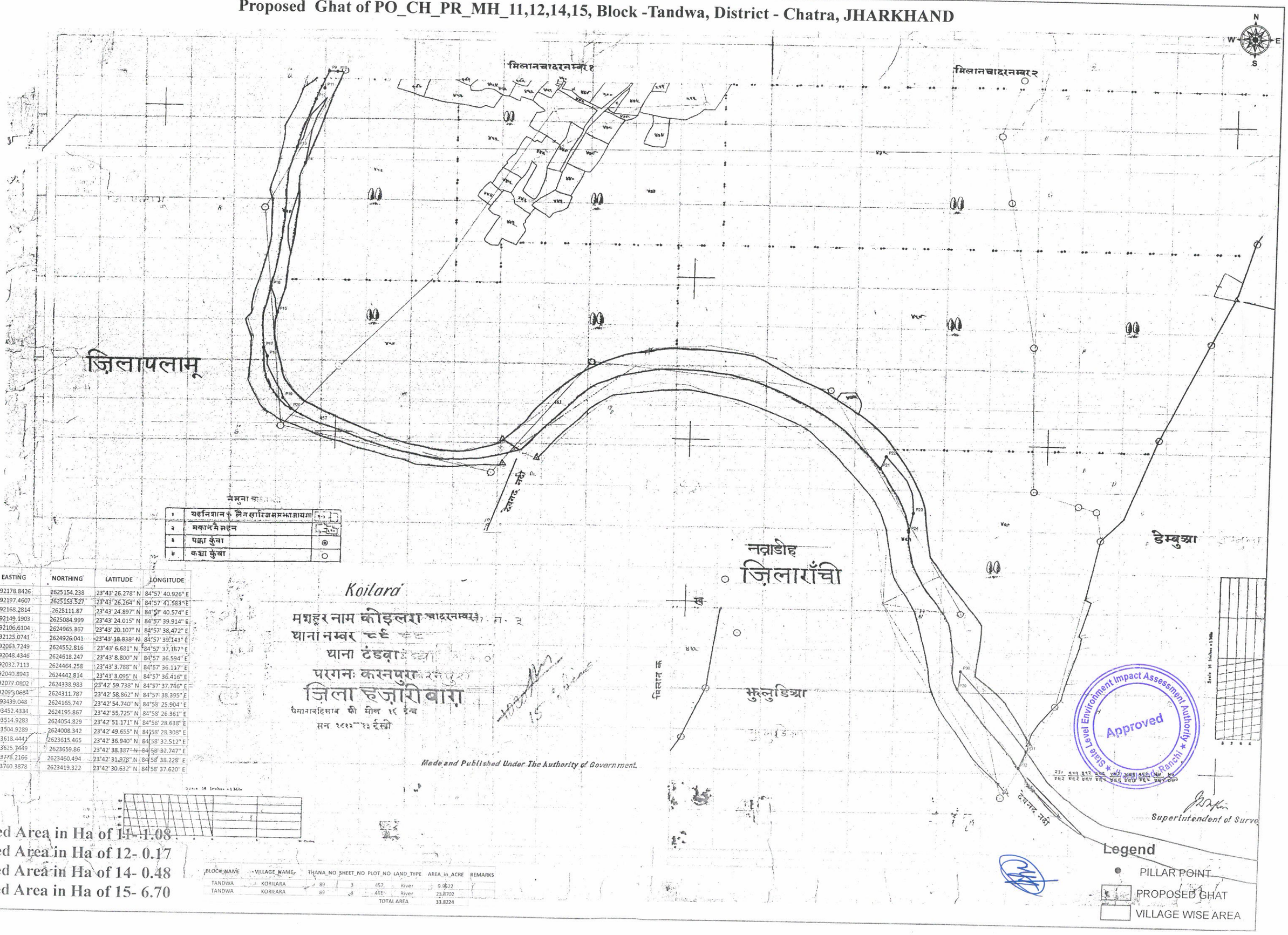
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi

Proposed Ghat of PO_CH_PR_MH_11,12,14,15, Block -Tandwa, District - Chatra, JHARKHAND



१	यहनिशान फ़ लैन खारिजसमझाजायगा	
२	मकानमैसहन	
३	पक्का कुंवा	◉
४	कच्चा कुंवा	○

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P9	292178.8426	2625154.238	23°43' 26.278" N	84°57' 40.926" E
P10	292197.4607	2625153.527	23°43' 26.264" N	84°57' 41.583" E
P11	292168.2814	2625111.87	23°43' 24.897" N	84°57' 40.574" E
P12	292149.1903	2625084.999	23°43' 24.015" N	84°57' 39.914" E
P13	292106.6104	2624965.367	23°43' 20.107" N	84°57' 38.472" E
P4	292125.0741	2624926.041	23°43' 18.838" N	84°57' 39.143" E
P15	292063.7249	2624552.816	23°43' 6.681" N	84°57' 37.167" E
P16	292048.4346	2624618.247	23°43' 8.800" N	84°57' 36.594" E
P17	292032.7113	2624464.258	23°43' 3.788" N	84°57' 36.117" E
P18	292040.8943	2624442.814	23°43' 3.095" N	84°57' 36.416" E
P19	292077.0802	2624338.983	23°42' 59.738" N	84°57' 37.746" E
P20	292095.0684	2624311.787	23°42' 58.862" N	84°57' 38.395" E
P21	293439.048	2624165.747	23°42' 54.740" N	84°58' 25.904" E
P22	293452.4334	2624195.867	23°42' 55.725" N	84°58' 26.361" E
P23	293514.9283	2624054.829	23°42' 51.171" N	84°58' 28.638" E
P24	293504.9289	2624008.342	23°42' 49.655" N	84°58' 28.308" E
P29	293618.4441	2623615.465	23°42' 36.940" N	84°58' 32.512" E
P30	293625.7449	2623659.86	23°42' 38.387" N	84°58' 32.747" E
P31	293778.2166	2623460.494	23°42' 31.978" N	84°58' 38.228" E
P32	293760.3878	2623419.322	23°42' 30.632" N	84°58' 37.620" E

Proposed Area in Ha of 11- 1.08
Proposed Area in Ha of 12- 0.17
Proposed Area in Ha of 14- 0.48
Proposed Area in Ha of 15- 6.70

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
TANDWA	KORILARA	89	3	457	River	9.9522	
TANDWA	KORILARA	89	3	461	River	23.8702	
				TOTAL AREA		33.8224	

Proposed Ghat of PO_CH_PR_MH_15, Block -Tandwa, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	293760.3878	2623419.322	23°42' 30.632" N	84°58' 37.620" E
P2	293778.2166	2623460.494	23°42' 31.978" N	84°58' 38.228" E
P3	294536.2369	2623160.917	23°42' 22.592" N	84°59' 5.131" E
P4	294516.1873	2623123.274	23°42' 21.359" N	84°59' 4.442" E
P5	294516.1873	2623123.274	23°42' 21.359" N	84°59' 4.442" E
P6	294536.2369	2623160.917	23°42' 22.592" N	84°59' 5.131" E
P7	294940.7147	2623067.62	23°42' 19.746" N	84°59' 19.453" E
P8	294928.1641	2623046.738	23°42' 19.061" N	84°59' 19.020" E

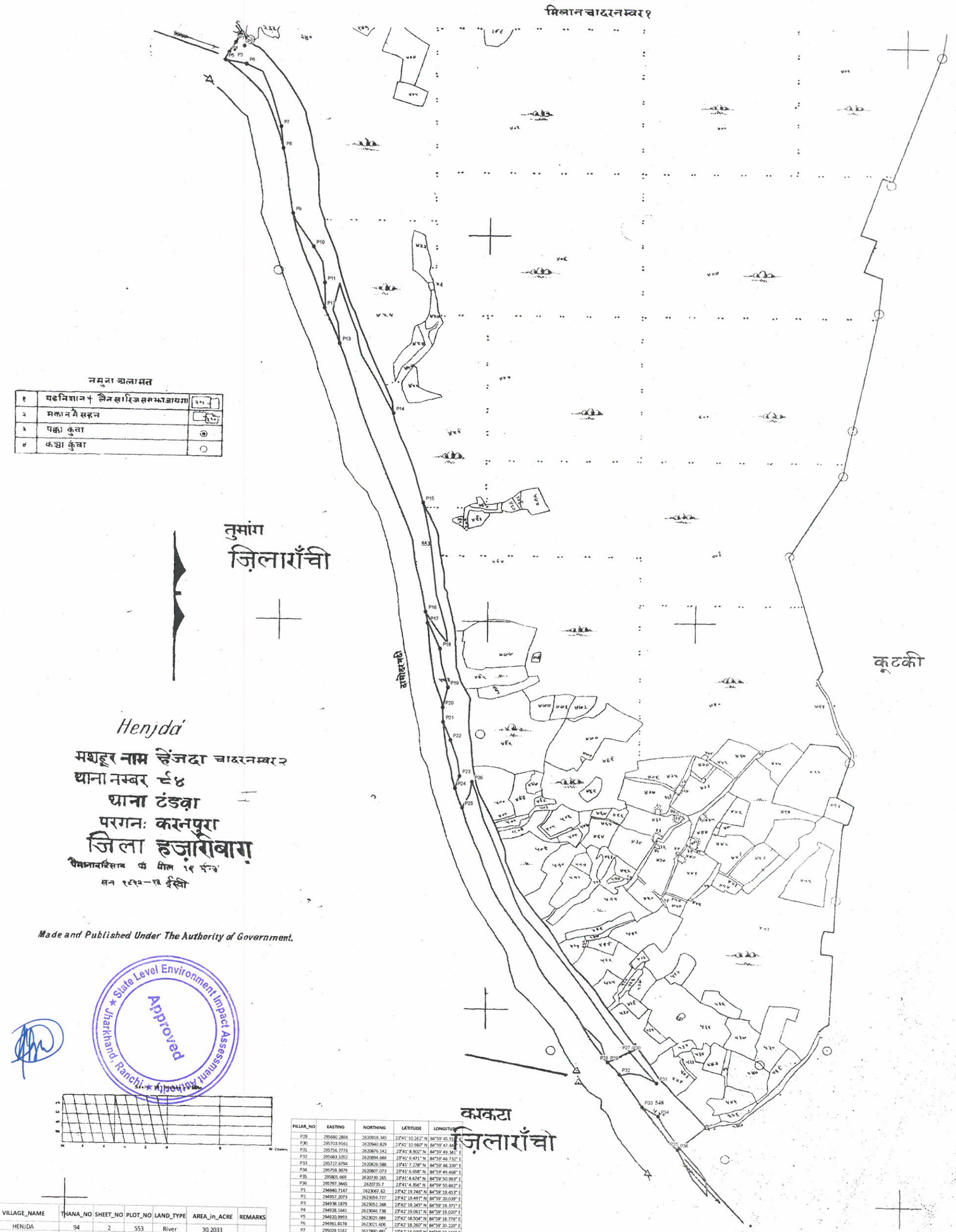
BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
TANDWA	DEMBUA	90	1	227	River	13.5477	
TANDWA	DEMBUA	90	1	284	River	5.5172	
				TOTAL AREA		19.0649	

Proposed Area in Ha of 15- 5.81

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PR_MH_16,17,18,19,20, Block -Tandwa, District - Chatra, JHARKHAND



BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
TANDWA	HENJDA	94	2	553	River	30.2033	
TANDWA	HENJDA	94	2	548	River	3.6509	
				TOTAL AREA		33.8542	

Proposed Area in Ha of 16- 0.61
Proposed Area in Ha of 16- 2.98
Proposed Area in Ha of 18- 0.42
Proposed Area in Ha of 19- 2.51
Proposed Area in Ha of 20- 0.26

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P29	295660.2866	2620919.345	23°41' 10.262" N	84°59' 45.915" E
P30	295703.9161	2620940.829	23°41' 10.980" N	84°59' 47.443" E
P31	295756.7776	2620876.142	23°41' 8.902" N	84°59' 49.341" E
P32	295683.1052	2620894.686	23°41' 9.471" N	84°59' 46.732" E
P33	295727.6794	2620826.588	23°41' 7.278" N	84°59' 48.330" E
P34	295759.3979	2620807.073	23°41' 6.658" N	84°59' 49.468" E
P35	295801.669	2620739.265	23°41' 4.474" N	84°59' 50.993" E
P36	295797.3445	2620720.7	23°41' 4.356" N	84°59' 50.842" E
P1	294940.7147	2623067.62	23°42' 19.746" N	84°59' 19.453" E
P2	294957.2073	2623059.727	23°42' 19.497" N	84°59' 20.039" E
P3	294938.1879	2623052.248	23°42' 19.245" N	84°59' 19.371" E
P4	294928.1641	2623044.738	23°42' 19.061" N	84°59' 19.020" E
P5	294920.9993	2623029.684	23°42' 18.504" N	84°59' 18.776" E
P6	294961.8178	2623021.606	23°42' 18.260" N	84°59' 20.220" E
P7	295029.1162	2622890.481	23°42' 14.030" N	84°59' 22.661" E
P8	295033.3027	2622844.96	23°42' 12.552" N	84°59' 22.831" E
P9	295051.5771	2622707.135	23°42' 8.082" N	84°59' 23.545" E
P10	295091.5245	2622636.097	23°42' 5.792" N	84°59' 24.990" E
P11	295113.3299	2622559.732	23°42' 3.330" N	84°59' 25.798" E
P12	295112.4569	2622506.776	23°42' 1.599" N	84°59' 25.793" E
P13	295141.9282	2622433.003	23°41' 59.215" N	84°59' 26.870" E
P14	295247.1547	2622285.601	23°41' 54.473" N	84°59' 30.657" E
P15	295304.9045	2622095.949	23°41' 48.336" N	84°59' 32.789" E
P16	295308.4579	2621865.49	23°41' 40.848" N	84°59' 33.029" E
P17	295312.1741	2621841.717	23°41' 40.077" N	84°59' 33.172" E
P18	295336.4454	2621787.962	23°41' 38.342" N	84°59' 34.055" E
P19	295351.5918	2621707.2	23°41' 35.724" N	84°59' 34.629" E
P20	295341.4195	2621664.781	23°41' 34.341" N	84°59' 34.292" E
P21	295341.837	2621634.686	23°41' 33.363" N	84°59' 34.322" E
P22	295355.9391	2621596.219	23°41' 32.119" N	84°59' 34.839" E
P23	295373.652	2621520.38	23°41' 29.663" N	84°59' 35.501" E
P24	295364.4038	2621494.671	23°41' 28.823" N	84°59' 35.188" E
P25	295377.9291	2621454.263	23°41' 27.516" N	84°59' 35.685" E
P26	295397.7303	2621507.796	23°41' 29.265" N	84°59' 36.357" E
P27	295703.9161	2620940.829	23°41' 10.980" N	84°59' 47.443" E
P28	295660.2866	2620919.345	23°41' 10.262" N	84°59' 45.915" E

Proposed Ghat of PO_CH_PR_MH_20,21,22, Block -Tandwa, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	295797.3445	2620735.7	23°41' 4.356" N	84°59' 50.842" E
P2	295801.669	2620739.265	23°41' 4.474" N	84°59' 50.993" E
P3	295852.9371	2620673.375	23°41' 2.356" N	84°59' 52.835" E
P4	295855.6727	2620638.348	23°41' 1.219" N	84°59' 52.948" E
P5	295964.772	2620572.125	23°40' 59.117" N	84°59' 56.831" E
P6	295950.6107	2620600.682	23°41' 0.038" N	84°59' 56.317" E
P7	296026.308	2620541.434	23°40' 58.147" N	84°59' 59.018" E
P8	296011.5553	2620515.136	23°40' 57.286" N	84°59' 58.510" E
P9	296011.5553	2620515.136	23°40' 57.286" N	84°59' 58.510" E
P10	296026.308	2620541.434	23°40' 58.147" N	84°59' 59.018" E
P11	296337.3014	2620393.575	23°40' 53.679" N	85°0' 10.062" E
P12	296296.2597	2620350.954	23°40' 52.080" N	85°0' 8.638" E
P13	297170.8817	26214[illegible]2.14	23°41' 27.614" N	85°0' 38.968" E
P14	297137.8356	2621339.501	23°41' 24.588" N	85°0' 37.847" E
P15	297134.2149	2621677.724	23°41' 35.578" N	85°0' 37.553" E
P16	297169.2052	2621469.481	23°41' 28.827" N	85°0' 38.890" E

Proposed Area in Ha of 20- 0.16
Proposed Area in Ha of 21- 2.05
Proposed Area in Ha of 22- 0.80

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
TANDWA	KUTKI	95	3	716	River	23.2042	
TANDWA	KUTKI	95	3	727	River	4.0279	
				TOTAL AREA		27.2321	

Proposed Ghat of PO_CH_PR_MH_24, Block -Tandwa, District - Chatra, JHARKHAND

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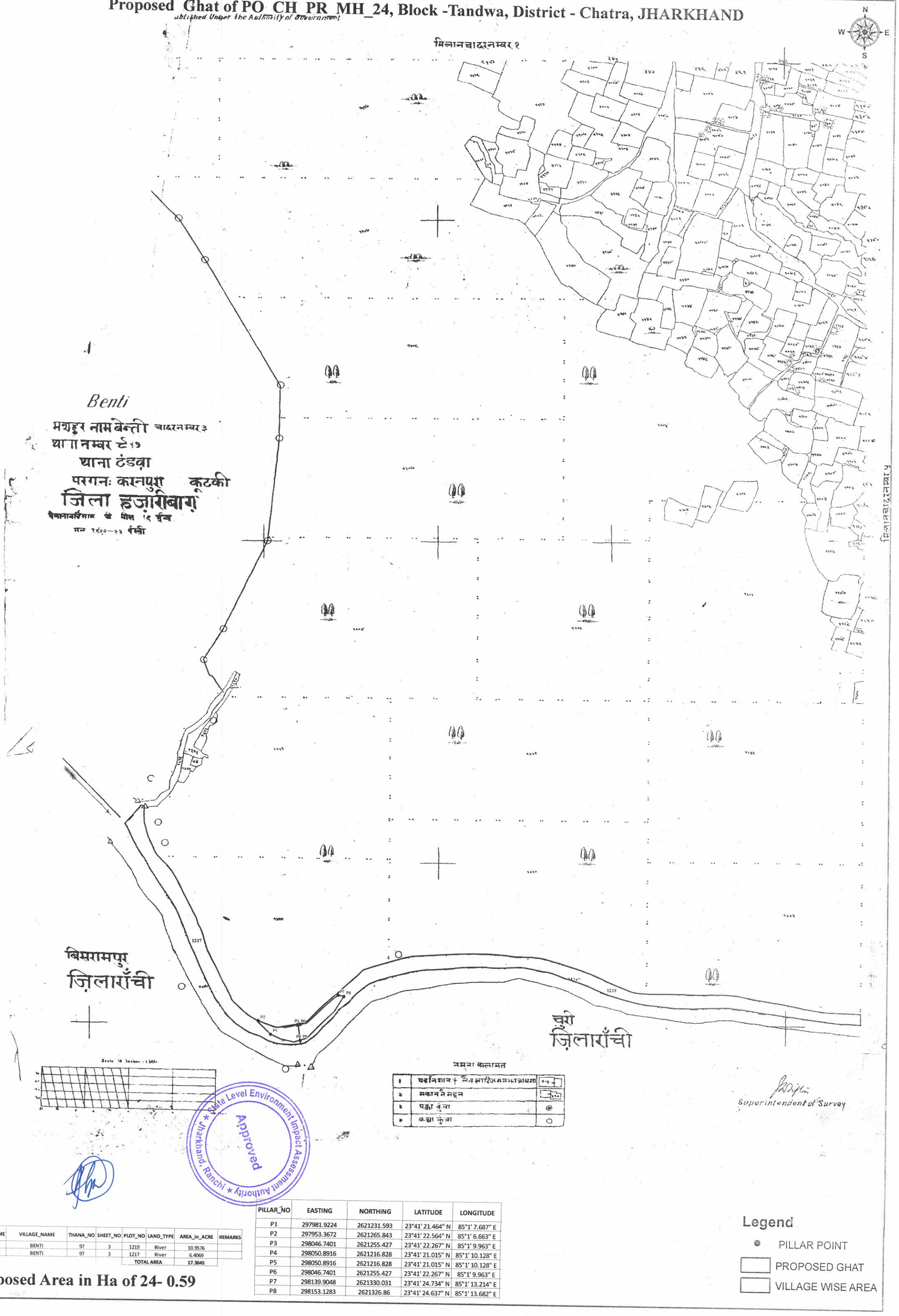


BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
TANDWA	BENTI	97	3	1219	River	10.9576	
TANDWA	BENTI	97	3	1217	River	6.4069	
				TOTAL AREA		17.3645	

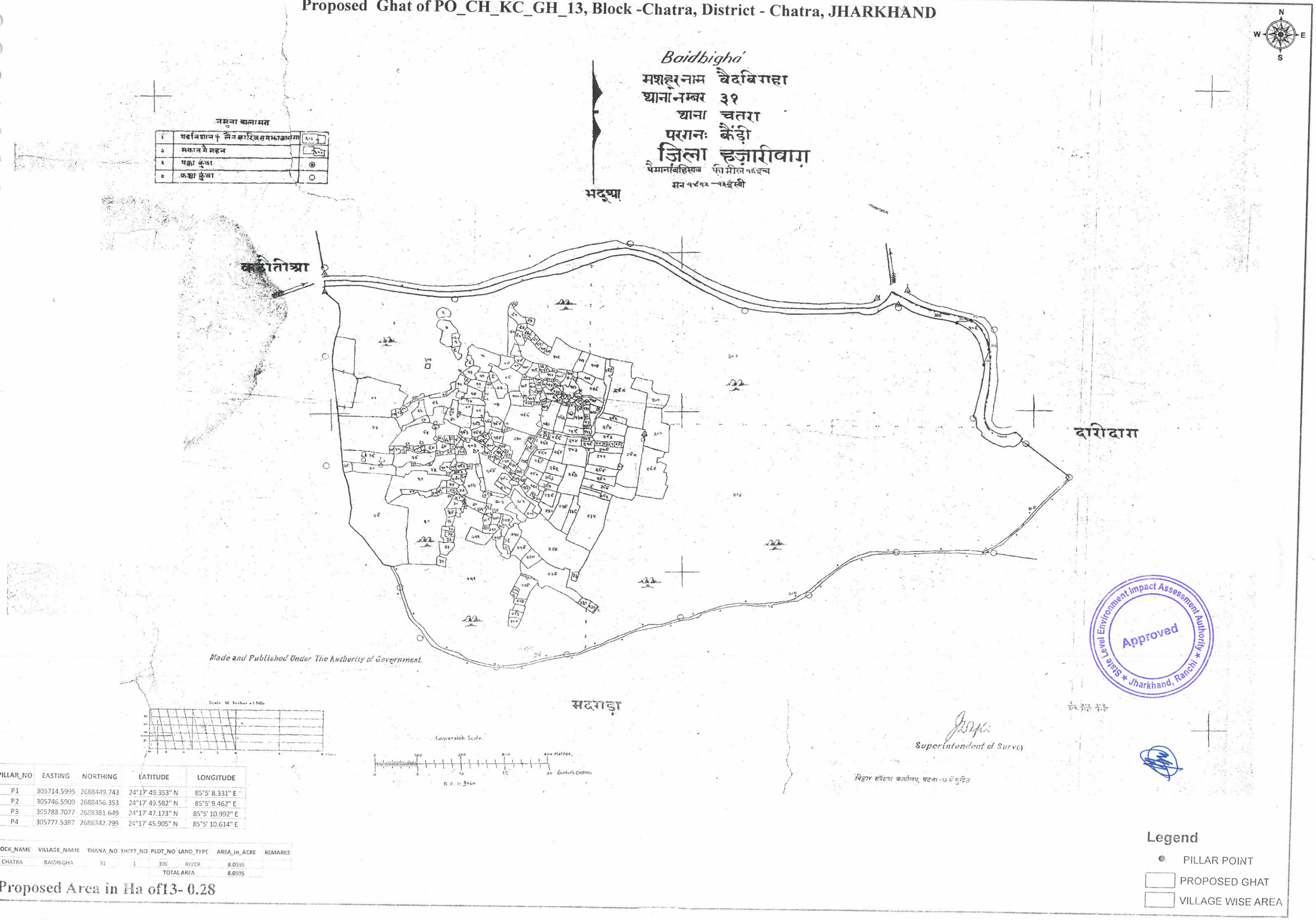
Proposed Area in Ha of 24- 0.59

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	297981.9224	2621231.593	23°41' 21.464" N	85°1' 7.687" E
P2	297953.3672	2621265.843	23°41' 22.564" N	85°1' 6.663" E
P3	298046.7401	2621255.427	23°41' 22.267" N	85°1' 9.963" E
P4	298050.8916	2621216.828	23°41' 21.015" N	85°1' 10.128" E
P5	298050.8916	2621216.828	23°41' 21.015" N	85°1' 10.128" E
P6	298046.7401	2621255.427	23°41' 22.267" N	85°1' 9.963" E
P7	298139.9048	2621330.031	23°41' 24.734" N	85°1' 13.214" E
P8	298153.1283	2621326.86	23°41' 24.637" N	85°1' 13.682" E

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_KC_GH_13, Block -Chatra, District - Chatra, JHARKHAND



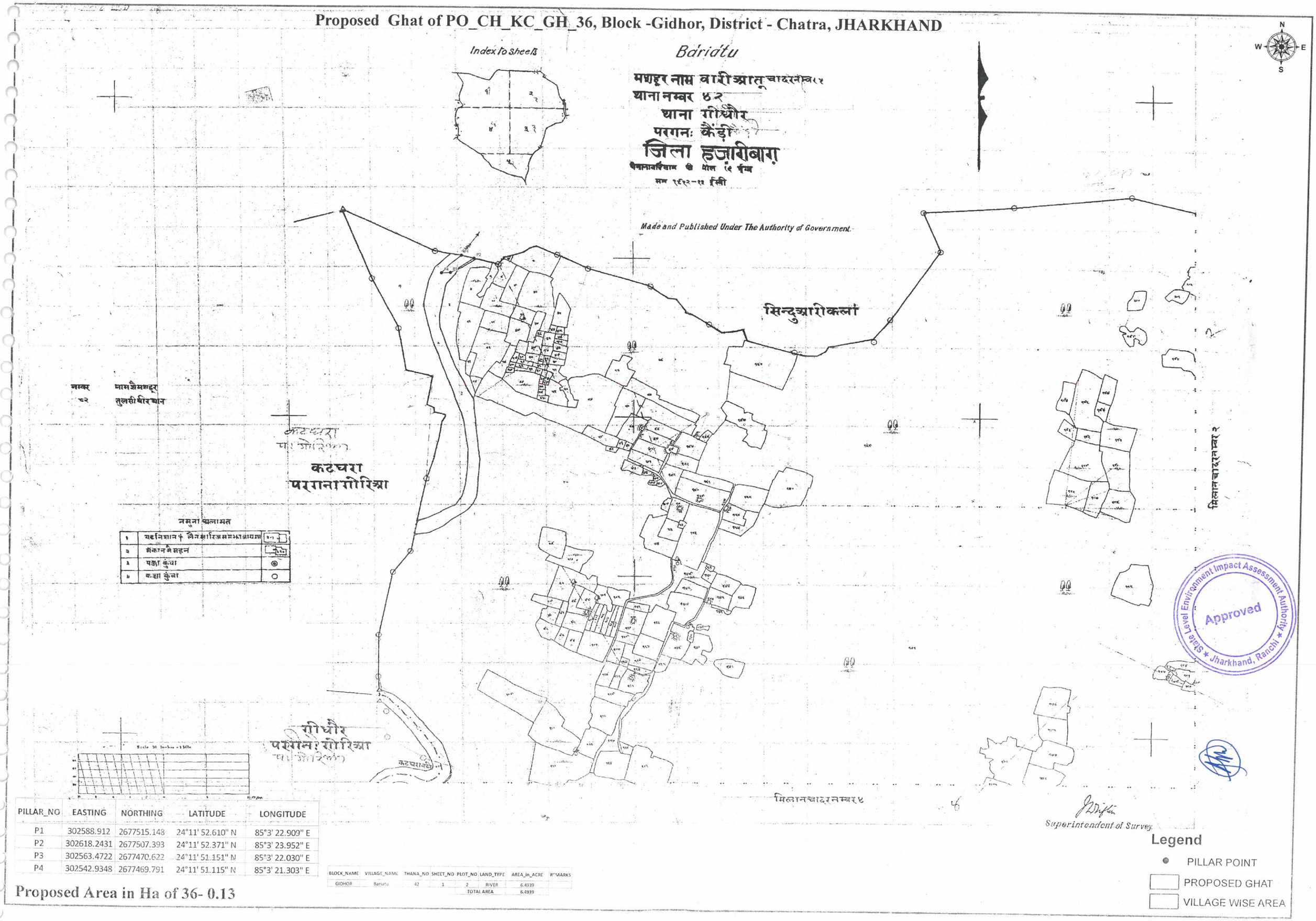
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	305714.5995	2688449.743	24°17' 49.353" N	85°5' 8.331" E
P2	305746.5909	2688456.353	24°17' 49.582" N	85°5' 9.462" E
P3	305788.7077	2688381.649	24°17' 47.173" N	85°5' 10.992" E
P4	305777.5387	2688342.799	24°17' 45.905" N	85°5' 10.614" E

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
CHATRA	BAIDBIGHA	31	1	306	RIVER	8.0595	
				TOTAL AREA		8.0595	

Proposed Area in Ha of13- 0.28

Garhi River

Proposed Ghat of PO_CH_KC_GH_36, Block -Gidhor, District - Chatra, JHARKHAND

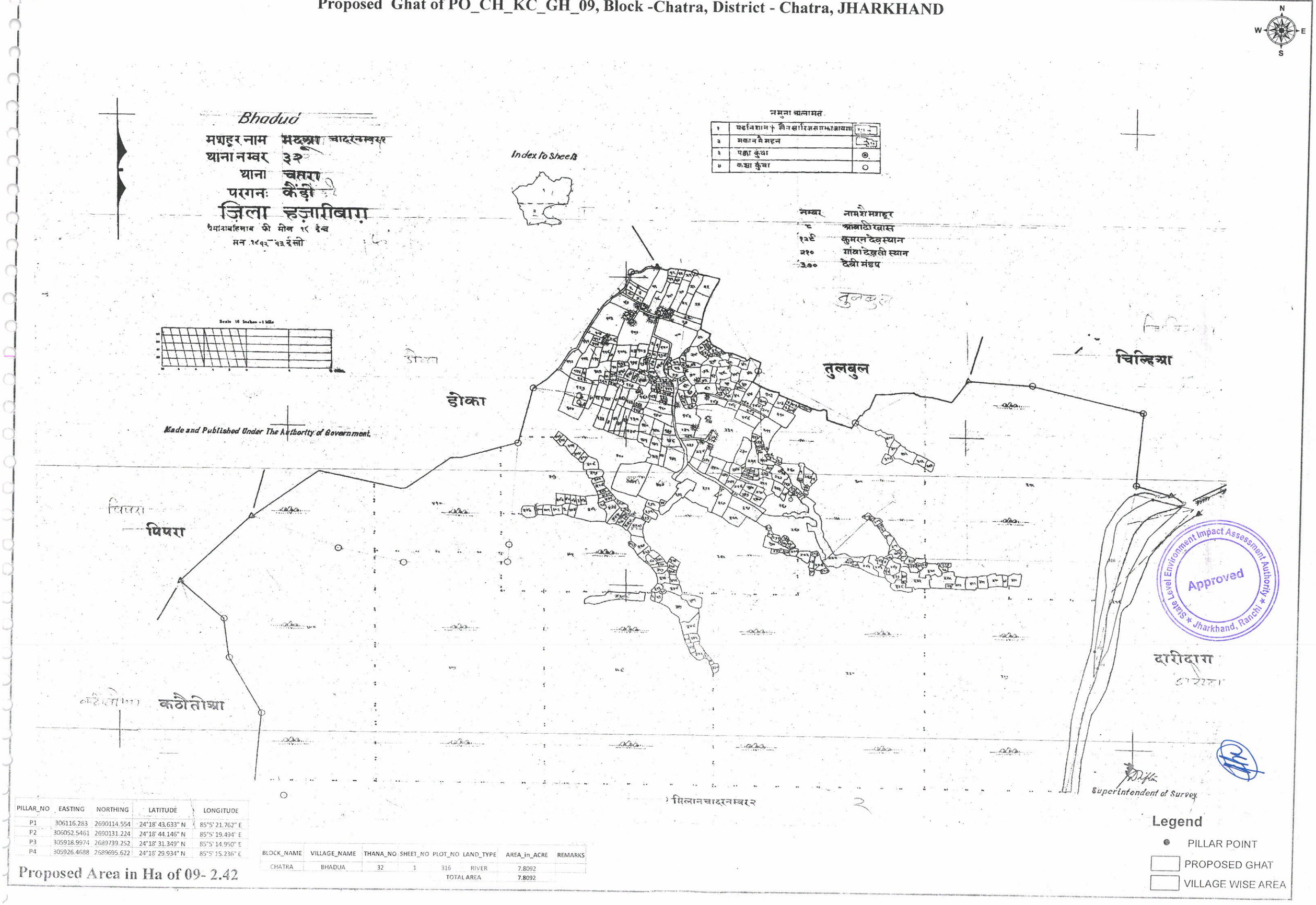


PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	302588.912	2677515.148	24°11' 52.610" N	85°3' 22.909" E
P2	302618.2431	2677507.393	24°11' 52.371" N	85°3' 23.952" E
P3	302563.4722	2677470.622	24°11' 51.151" N	85°3' 22.030" E
P4	302542.9348	2677469.791	24°11' 51.115" N	85°3' 21.303" E

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
GIDHOR	Bariatu	42	1	2	RIVER	6.4939	
				TOTAL AREA		6.4939	

Proposed Area in Ha of 36- 0.13

Proposed Ghat of PO_CH_KC_GH_09, Block -Chatra, District - Chatra, JHARKHAND

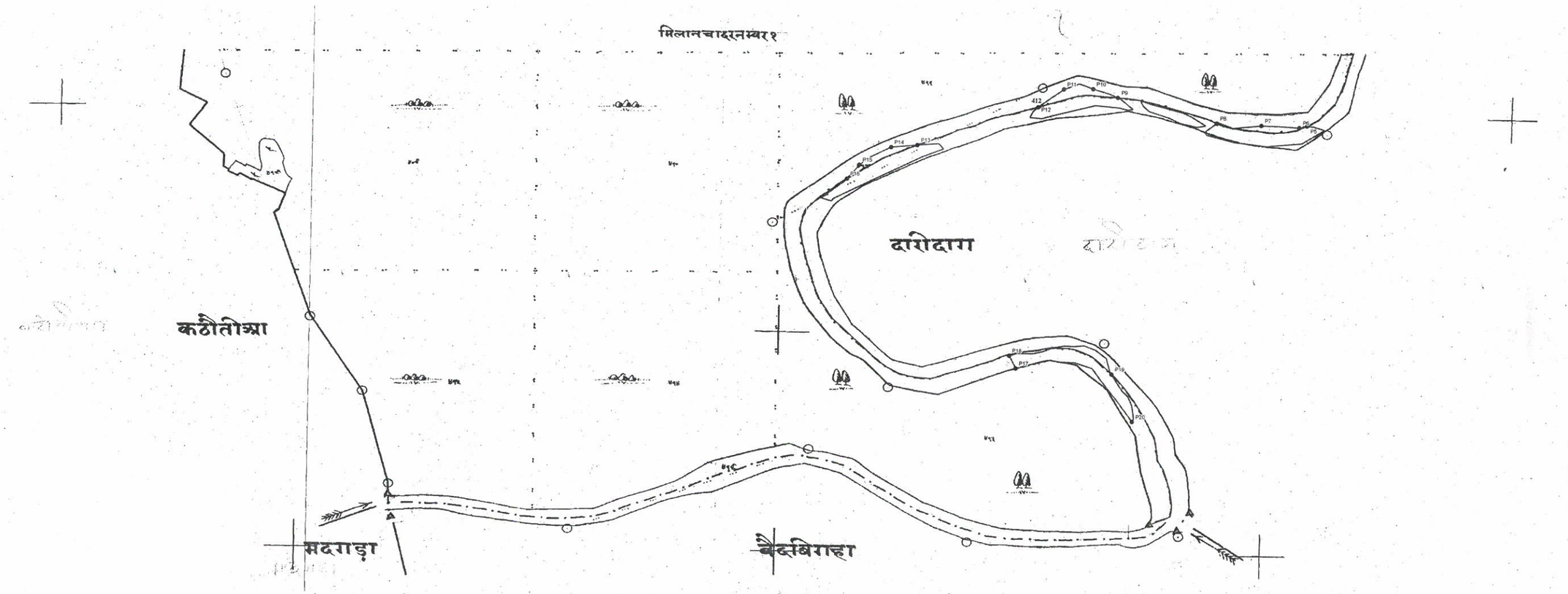


PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	306116.283	2690114.554	24°18' 43.633" N	85°5' 21.762" E
P2	306052.5461	2690131.224	24°18' 44.146" N	85°5' 19.494" E
P3	305918.9974	2689739.252	24°18' 31.349" N	85°5' 14.950" E
P4	305926.4688	2689695.622	24°18' 29.934" N	85°5' 15.236" E

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
CHATRA	BHADUA	32	1	316	RIVER	7.8092	
				TOTAL AREA		7.8092	

Proposed Area in Ha of 09- 2.42

Proposed Ghat of PO_CH_KC_GH_10,10A,10B,11,12, Block -Chatra, District - Chatra, JHARKHAND



Bhadua'

मशहूर नाम मदुआ चादरनम्बर२
थाना नम्बर ३२
थाना चतरा
परगनः कैंदी
जिला हज़ारीबाग़
पैमानाबहिनाब की मील १८ इंच
मन १८ १२ १३ ईंची

नमुना अलामत

१	सदनिशान पक्का लेवलखारिजसमझाजायगा	
२	मकानमैमहल	
३	पक्का कुंवा	◉
४	कच्चा कुंवा	○

Made and Published Under The Authority of Government.

Scale 16 Inches = 1 Mile

Proposed Area in Ha of 10- 0.55
Proposed Area in Ha of 10A- 0.16
Proposed Area in Ha of 10B- 0.49
Proposed Area in Ha of 11- 0.58
Proposed Area in Ha of 12- 0.62

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P5	305789.7073	2689246.618	24°18' 15.282" N	85°5' 10.605" E
P6	305776.9482	2689243.599	24°18' 15.178" N	85°5' 10.154" E
P7	305713.1623	2689247.793	24°18' 15.286" N	85°5' 7.891" E
P8	305638.6183	2689251.948	24°18' 15.388" N	85°5' 5.245" E
P9	305475.8146	2689299.09	24°18' 16.847" N	85°4' 59.449" E
P10	305434.442	2689314.99	24°18' 17.345" N	85°4' 57.975" E
P11	305385.2785	2689314.316	24°18' 17.301" N	85°4' 56.232" E
P12	305342.4476	2689281.88	24°18' 16.228" N	85°4' 54.729" E
P13	305141.8278	2689212.688	24°18' 13.889" N	85°4' 47.649" E
P14	305098.0757	2689209.211	24°18' 13.757" N	85°4' 46.099" E
P15	305045.6686	2689177.418	24°18' 12.700" N	85°4' 44.257" E
P16	305024.8865	2689151.319	24°18' 11.843" N	85°4' 43.533" E
P17	305306.899	2688800.106	24°18' 0.556" N	85°4' 53.704" E
P18	305295.6392	2688823.622	24°18' 1.315" N	85°4' 53.293" E
P19	305467.2625	2688788.823	24°18' 0.261" N	85°4' 59.395" E
P20	305501.7062	2688701.914	24°17' 57.452" N	85°5' 0.659" E

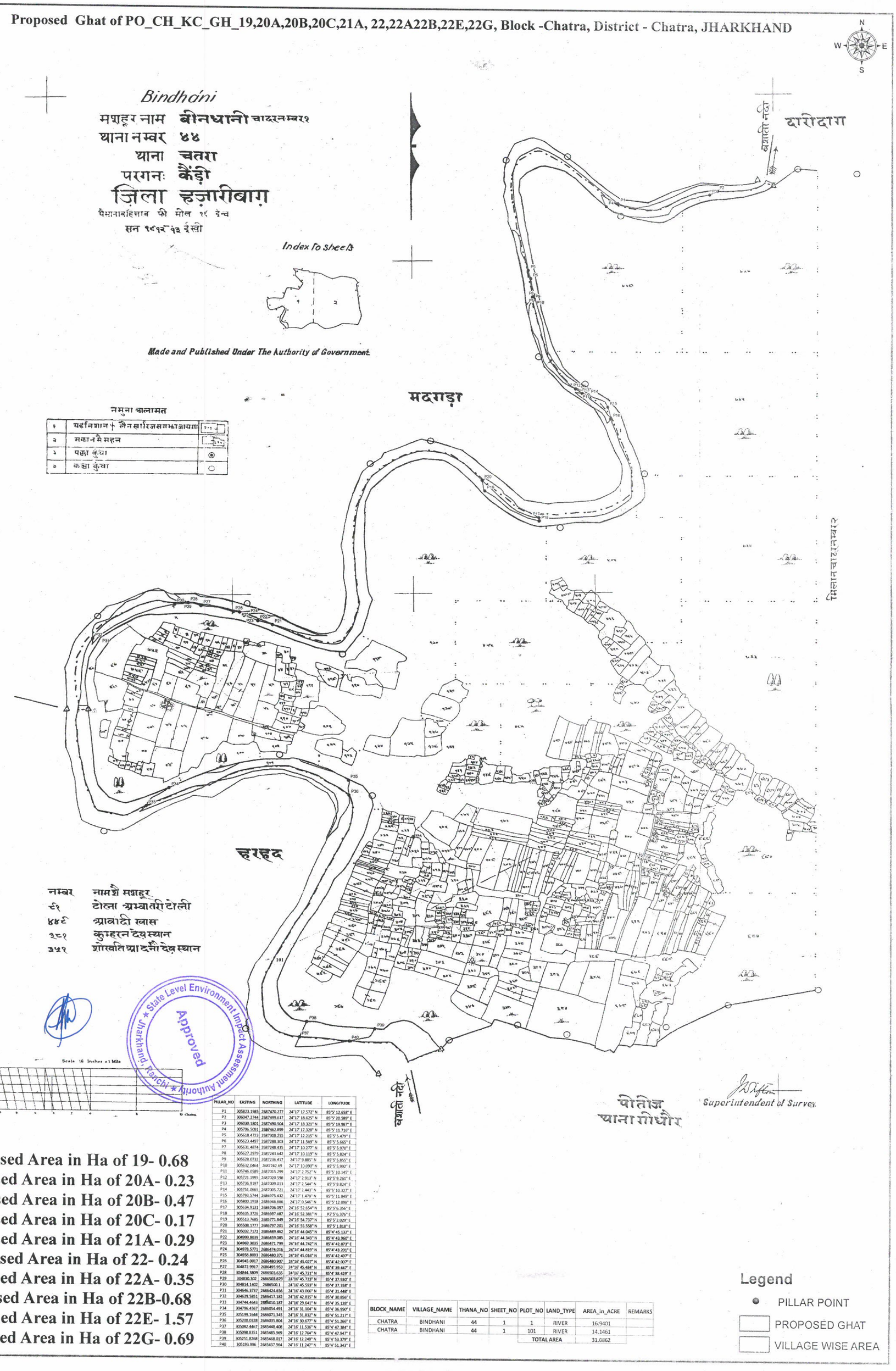
BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
CHATRA	BHADUA	32	2	412	RIVER	13.9605	
				TOTAL AREA		13.9605	

Superintendent of Survey

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★
Approved

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_KC_GH_19,20A,20B,20C,21A, 22,22A22B,22E,22G, Block -Chatra, District - Chatra, JHARKHAND



नम्बर	नामशै मशहूर
६१	टोला अम्बातरीटोली
४४६	आबादी खास
३८१	कुम्हरनटेरस्थान
३५१	गोरखतिआदमीटेरस्थान

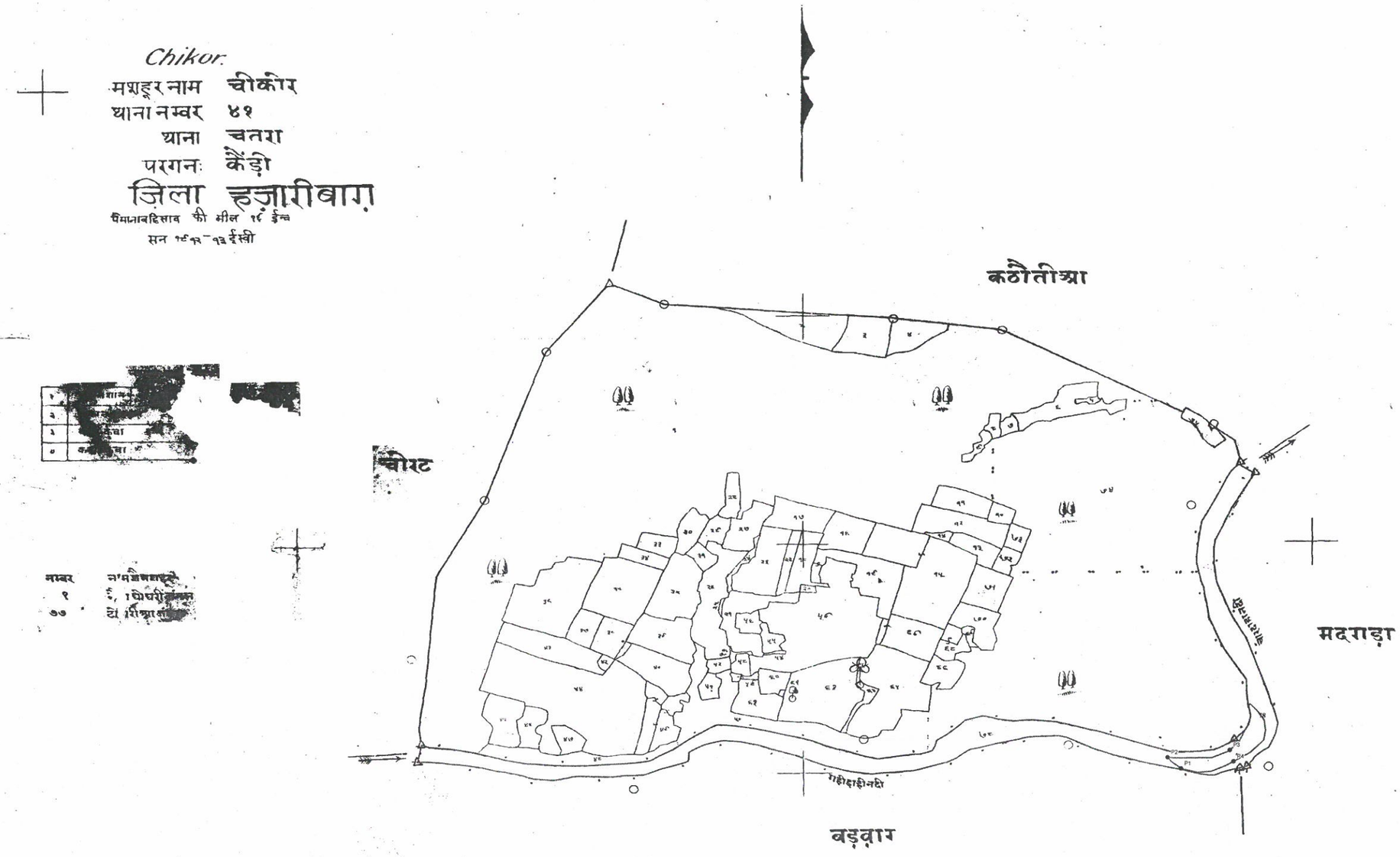
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	305823.1985	2687470.277	24°17' 17.572" N	85°5' 12.658" E
P2	306047.2744	2687499.617	24°17' 18.625" N	85°5' 20.589" E
P3	306030.1801	2687490.504	24°17' 18.321" N	85°5' 19.987" E
P4	305796.5091	2687462.899	24°17' 17.320" N	85°5' 11.716" E
P5	305618.4723	2687308.255	24°17' 12.215" N	85°5' 5.479" E
P6	305623.4497	2687288.303	24°17' 11.569" N	85°5' 5.665" E
P7	305631.4874	2687248.435	24°17' 10.277" N	85°5' 5.970" E
P8	305627.2979	2687243.642	24°17' 10.119" N	85°5' 5.824" E
P9	305628.0732	2687236.417	24°17' 9.885" N	85°5' 5.855" E
P10	305632.0464	2687242.69	24°17' 10.090" N	85°5' 5.995" E
P11	305746.0589	2687015.299	24°17' 2.752" N	85°5' 10.145" E
P12	305721.1995	2687020.598	24°17' 2.913" N	85°5' 9.261" E
P13	305736.9197	2687009.013	24°17' 2.544" N	85°5' 9.824" E
P14	305751.0665	2687005.721	24°17' 2.443" N	85°5' 10.327" E
P15	305793.5744	2686975.432	24°17' 1.478" N	85°5' 11.849" E
P16	305800.1918	2686946.666	24°17' 0.546" N	85°5' 12.098" E
P17	305634.9131	2686706.097	24°16' 52.654" N	85°5' 6.356" E
P18	305635.3726	2686697.487	24°16' 52.381" N	85°5' 6.376" E
P19	305513.7685	2686771.849	24°16' 54.737" N	85°5' 2.029" E
P20	305508.1777	2686797.201	24°16' 55.558" N	85°5' 1.818" E
P21	305032.7172	2686449.462	24°16' 44.045" N	85°4' 45.132" E
P22	304999.8039	2686459.085	24°16' 44.343" N	85°4' 43.960" E
P23	304969.3035	2686471.799	24°16' 44.742" N	85°4' 42.872" E
P24	304978.5771	2686474.016	24°16' 44.819" N	85°4' 43.201" E
P25	304958.8093	2686480.371	24°16' 45.016" N	85°4' 42.497" E
P26	304945.0017	2686480.907	24°16' 45.027" N	85°4' 42.007" E
P27	304872.9917	2686495.953	24°16' 45.484" N	85°4' 39.447" E
P28	304844.3809	2686503.635	24°16' 45.721" N	85°4' 38.429" E
P29	304830.302	2686503.879	24°16' 45.723" N	85°4' 37.930" E
P30	304814.1402	2686500.1	24°16' 45.593" N	85°4' 37.358" E
P31	304646.3737	2686424.656	24°16' 43.066" N	85°4' 31.448" E
P32	304629.5851	2686417.182	24°16' 42.815" N	85°4' 30.856" E
P33	304744.4643	2685010.187	24°16' 29.641" N	85°4' 35.128" E
P34	304796.4567	2686054.491	24°16' 31.104" N	85°4' 36.950" E
P35	305199.1644	2686071.345	24°16' 31.832" N	85°4' 51.217" E
P36	305200.0328	2686035.804	24°16' 30.677" N	85°4' 51.266" E
P37	305082.4467	2685448.408	24°16' 11.536" N	85°4' 47.384" E
P38	305098.8351	2685485.969	24°16' 12.764" N	85°4' 47.947" E
P39	305251.8268	2685468.017	24°16' 12.249" N	85°4' 53.379" E
P40	305193.996	2685437.964	24°16' 11.247" N	85°4' 51.343" E

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
CHATRA	BINDHANI	44	1	1	RIVER	16.9401	
CHATRA	BINDHANI	44	1	101	RIVER	14.1461	
				TOTAL AREA		31.0862	

Proposed Area in Ha of 19- 0.68
Proposed Area in Ha of 20A- 0.23
Proposed Area in Ha of 20B- 0.47
Proposed Area in Ha of 20C- 0.17
Proposed Area in Ha of 21A- 0.29
Proposed Area in Ha of 22- 0.24
Proposed Area in Ha of 22A- 0.35
Proposed Area in Ha of 22B-0.68
Proposed Area in Ha of 22E- 1.57
Proposed Area in Ha of 22G- 0.69

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_KC_GH_40A, Block -Chatra, District - Chatra, JHARKHAND



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बिहार सर्वेक्षण कार्यालय, पटना- ७ में मुद्रित ;

Superintendent of Survey

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★ Approved

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	303689.5504	2686925.001	24°16' 58.894" N	85°3' 57.281" E
P2	303668.0469	2686944.481	24°16' 59.518" N	85°3' 56.509" E
P3	303767.1877	2686957.385	24°16' 59.982" N	85°4' 0.018" E
P4	303773.1048	2686937.161	24°16' 59.327" N	85°4' 0.237" E

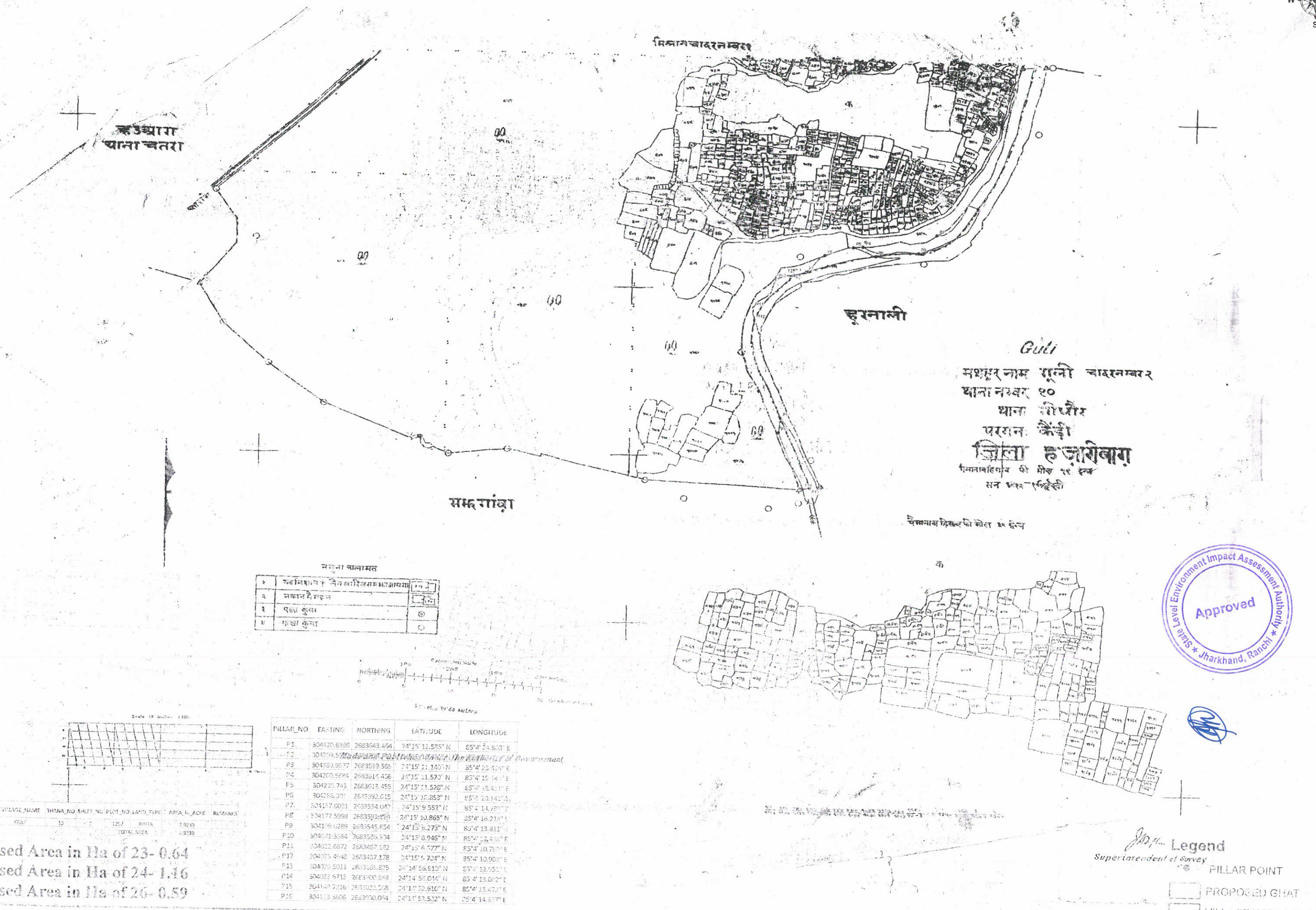
BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
CHATRA	CHIKOR	41	1	78	RIVER	14.429	
				TOTAL AREA		14.429	

Proposed Area in Ha of 40A- 0.45

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_KC_CH_23,24,26, Block Itkhori, District - Chatra, JHARKHAND



BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA in_ACRE	REMARKS
ITKHORI	GULI	10	2	1257	RIVER	7.9239	
					TOTAL AREA	7.9239	

Proposed Area in Ha of 23- 0.64
Proposed Area in Ha of 24- 1.16
Proposed Area in Ha of 26- 0.59

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	304420.6998	2683643.454	24°15' 12.585" N	85°4' 24.833" E
P2	304509.5	2683	24°15' 11.1	85°4' 28.4
P3	304380.9677	2683589.565	24°15' 11.1407" N	85°4' 23.424" E
P4	304260.5684	2683614.456	24°15' 11.573" N	85°4' 19.14" E
P5	304230.743	2683613.455	24°15' 11.520" N	85°4' 18.431" E
P6	304288.301	2683592.015	24°15' 10.853" N	85°4' 20.142" E
P7	304157.6031	2683554.047	24°15' 9.552" N	85°4' 14.789" E
P8	304177.5998	2683592.859	24°15' 10.865" N	85°4' 16.218" E
P9	304179.0289	2683545.854	24°15' 9.273" N	85°4' 13.811" E
P10	304071.5584	2683539.634	24°15' 8.946" N	85°4' 9.493" E
P11	304022.6872	2683467.102	24°15' 6.577" N	85°4' 10.753" E
P12	304023.4648	2683437.178	24°15' 5.604" N	85°4' 10.903" E
P13	304079.5011	2683185.875	24°14' 56.910" N	85°4' 12.951" E
P14	304022.6715	2683100.649	24°14' 54.014" N	85°4' 13.082" E
P15	304149.7316	2683023.518	24°14' 52.610" N	85°4' 15.472" E
P16	304133.3806	2683030.054	24°14' 53.522" N	85°4' 14.577" E

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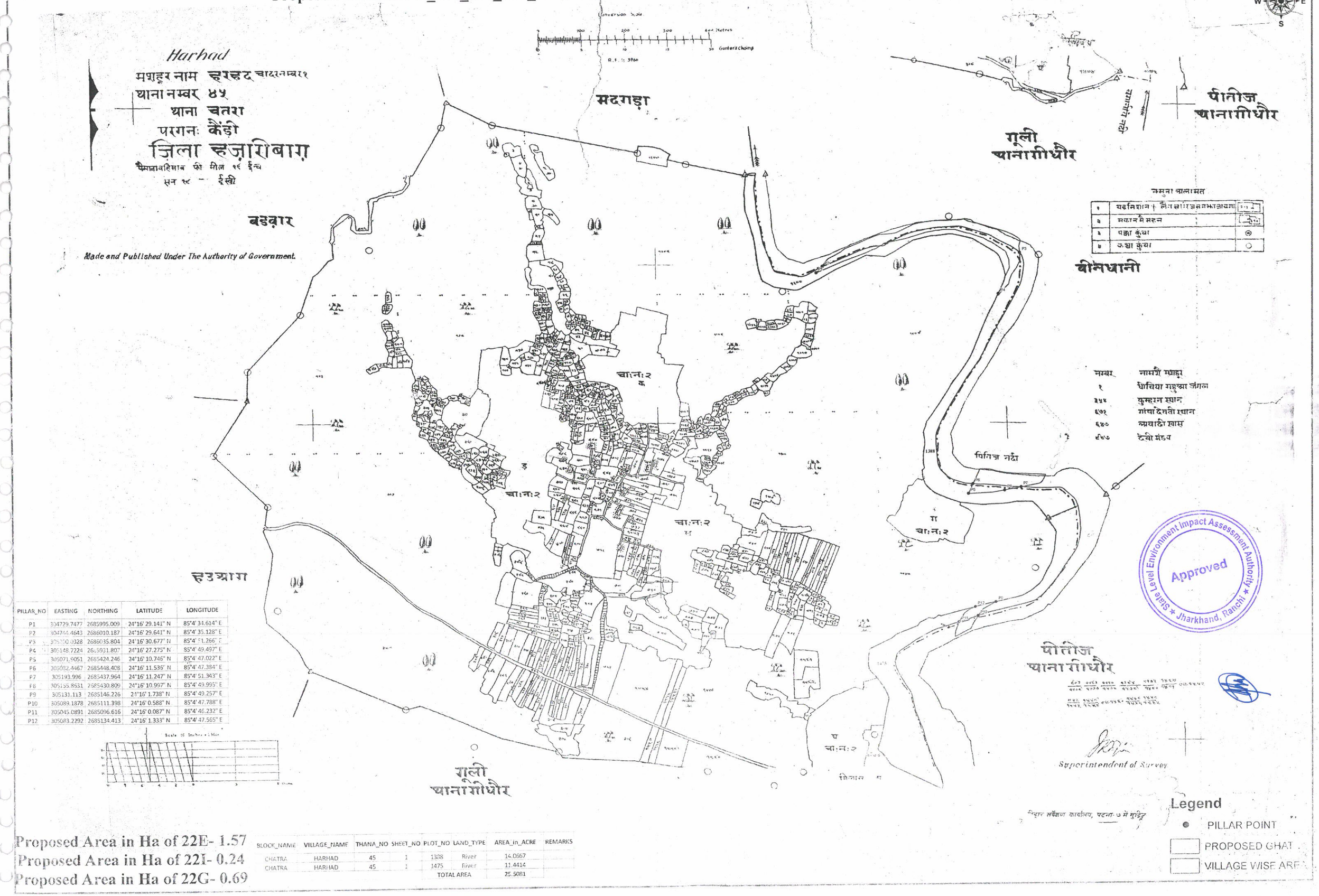
Proposed Ghat of PO_CH_KC_GH_22E,22I,22G, Block- Chatra, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	304729.7477	2685995.009	24°16' 29.141" N	85°4' 34.614" E
P2	304744.4643	2686010.187	24°16' 29.641" N	85°4' 35.128" E
P3	305200.0328	2686035.804	24°16' 30.677" N	85°4' 51.266" E
P4	305148.7224	2685931.807	24°16' 27.275" N	85°4' 49.497" E
P5	305071.9051	2685424.246	24°16' 10.746" N	85°4' 47.022" E
P6	305082.4467	2685448.408	24°16' 11.536" N	85°4' 47.384" E
P7	305193.996	2685437.964	24°16' 11.247" N	85°4' 51.343" E
P8	305155.8631	2685430.809	24°16' 10.997" N	85°4' 49.995" E
P9	305131.113	2685146.226	24°16' 1.738" N	85°4' 49.257" E
P10	305089.1878	2685111.398	24°16' 0.588" N	85°4' 47.788" E
P11	305045.0891	2685096.616	24°16' 0.087" N	85°4' 46.232" E
P12	305083.2292	2685134.413	24°16' 1.333" N	85°4' 47.565" E

Proposed Area in Ha of 22E- 1.57
Proposed Area in Ha of 22I- 0.24
Proposed Area in Ha of 22G- 0.69

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
CHATRA	HARHAD	45	1	1388	River	14.0667	
CHATRA	HARHAD	45	1	1475	River	11.4414	
				TOTAL AREA		25.5081	

Proposed Ghat of PO_CH_KC_GH_23,24,26,27, Block- Itkhori, District - Chatra, JHARKHAND



नमूना अलामत

१	घरनिशान ५ लेनसमारजसमझाजायगा	
२	मकान मे सहन	
३	पक्का कुंवा	◎
४	कच्चा कुंवा	○

Scale 16 Inches = 1 Mile

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_In_ACRE	REMARKS
ITKHORI	HURNALI	11	1	450	RIVER	1.167	
ITKHORI	HURNALI	11	1	1	RIVER	8.0345	
				TOTAL AREA		9.2015	

Proposed Area in Ha of 23- 0.64
Proposed Area in Ha of 24- 1.16
Proposed Area in Ha of 26- 0.59
Proposed Area in Ha of 27- 0.44

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	304509.5507	2683709.223	24°15' 14.762" N	85°4' 27.927" E
P2	304514.1194	2683707.605	24°15' 14.711" N	85°4' 28.090" E
P3	304483.0689	2683648.06	24°15' 12.762" N	85°4' 27.019" E
P4	304458.6039	2683634.817	24°15' 12.321" N	85°4' 26.158" E
P5	304288.301	2683592.015	24°15' 10.853" N	85°4' 20.143" E
P6	304339.5474	2683587.431	24°15' 10.727" N	85°4' 21.961" E
P7	304036.9369	2683400.718	24°15' 4.524" N	85°4' 11.327" E
P8	304025.4648	2683437.178	24°15' 5.704" N	85°4' 10.903" E
P9	304083.6715	2683200.659	24°14' 58.044" N	85°4' 13.082" E
P10	304106.0491	2683169.058	24°14' 57.027" N	85°4' 13.891" E
P11	304164.6581	2683034.882	24°14' 52.693" N	85°4' 16.034" E
P12	304148.7816	2683032.568	24°14' 52.610" N	85°4' 15.472" E
P13	304148.7816	2683032.568	24°14' 52.610" N	85°4' 15.472" E
P14	304164.6581	2683034.882	24°14' 52.693" N	85°4' 16.034" E
P15	304168.1499	2683017.991	24°14' 52.145" N	85°4' 16.166" E
P16	304157.9982	2682990.982	24°14' 51.263" N	85°4' 15.819" E
P17	304172.8655	2682895.391	24°14' 48.164" N	85°4' 16.393" E
P18	304177.513	2682887.659	24°14' 47.914" N	85°4' 16.563" E
P19	304185.0616	2682875.12	24°14' 47.510" N	85°4' 16.815" E
P20	304174.5327	2682872.742	24°14' 47.428" N	85°4' 16.463" E

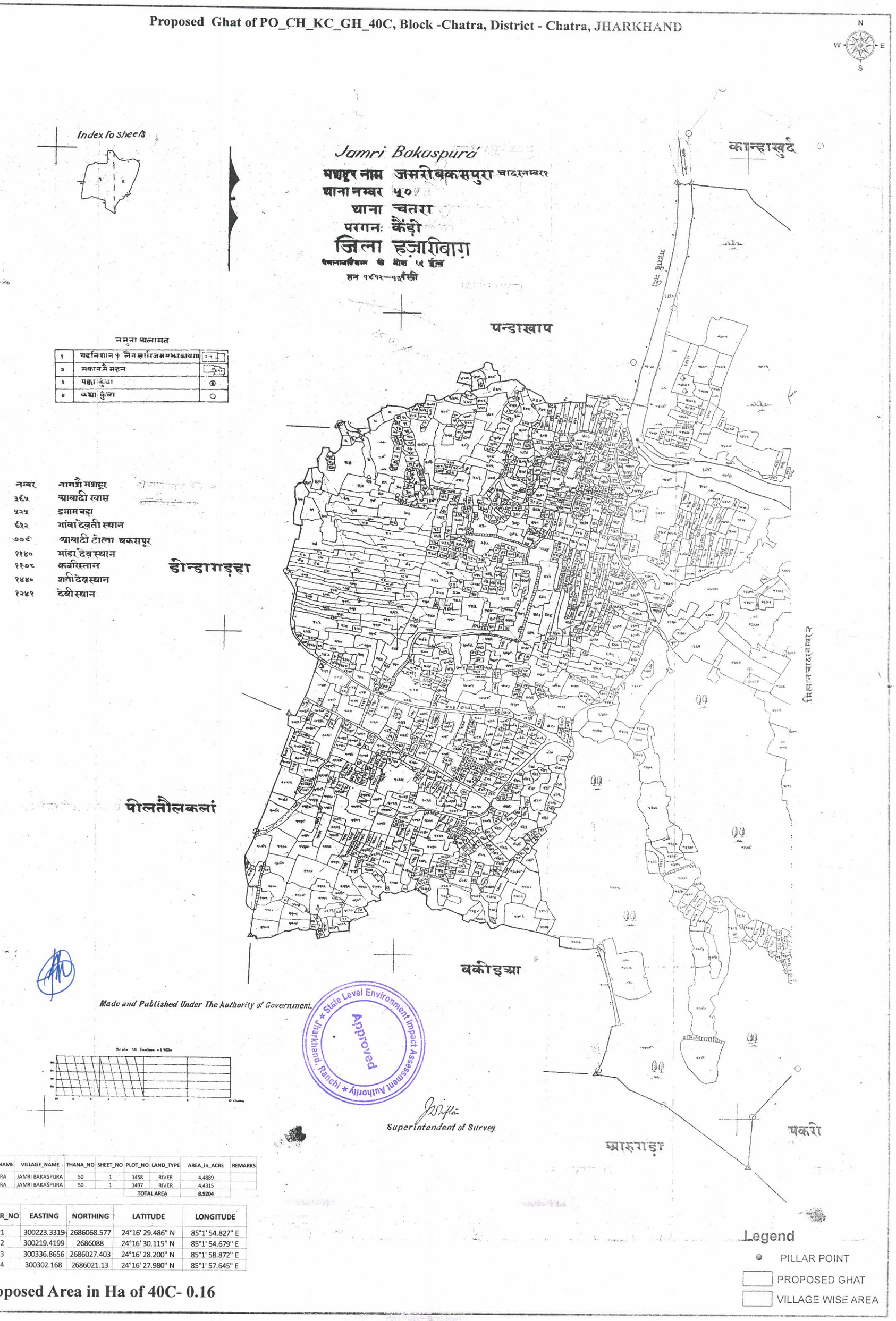
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi

Superintendent of Survey

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_KC_GH_40C, Block -Chatra, District - Chatra, JHARKHAND

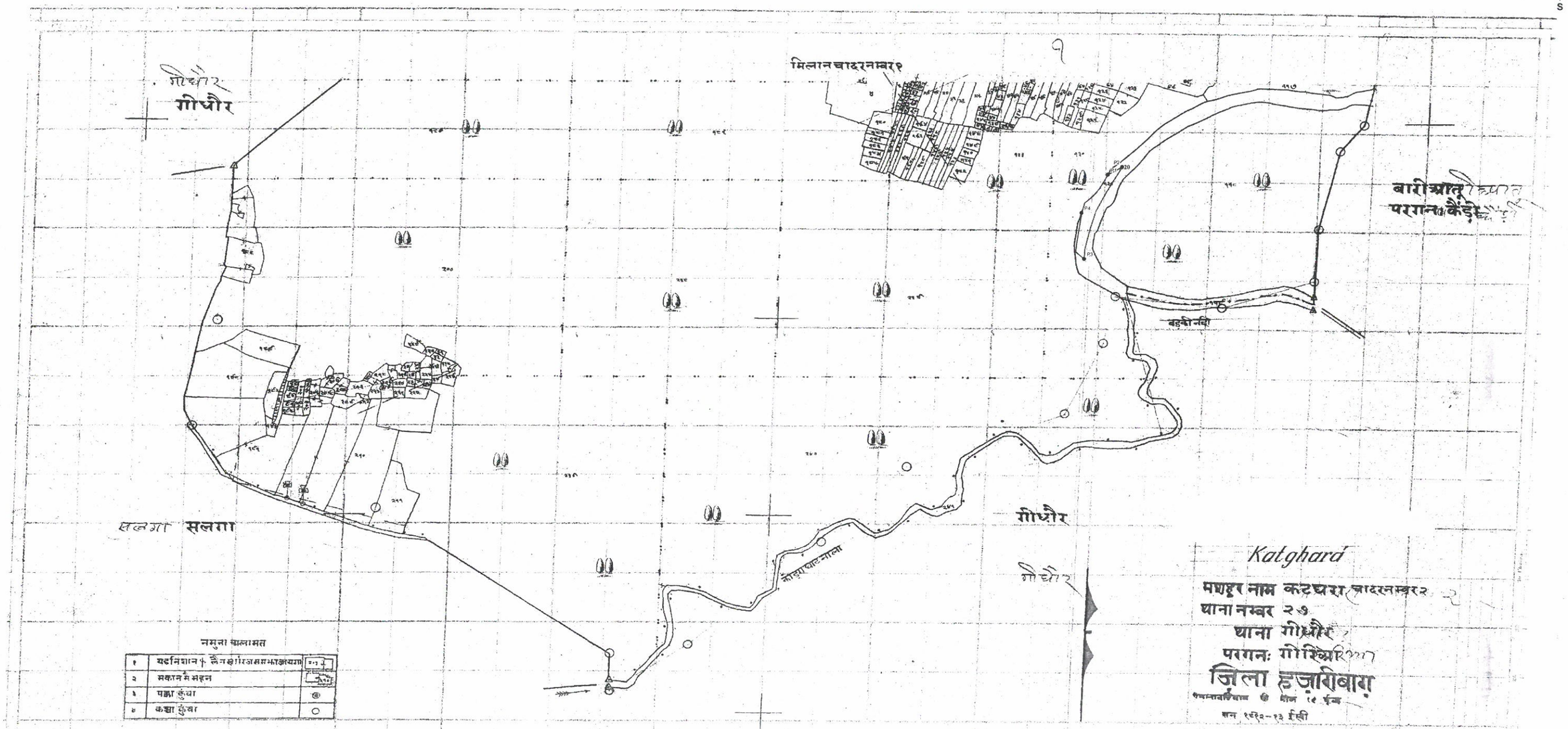


BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
CHATRA	JAMRI BAKASPURA	50	1	1458	RIVER	4.4889	
CHATRA	JAMRI BAKASPURA	50	1	1497	RIVER	4.4315	
				TOTAL AREA		8.9204	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	300223.3319	2686068.577	24°16' 29.486" N	85°1' 54.827" E
P2	300219.4199	2686088	24°16' 30.115" N	85°1' 54.679" E
P3	300336.8656	2686027.403	24°16' 28.200" N	85°1' 58.872" E
P4	300302.168	2686021.13	24°16' 27.980" N	85°1' 57.645" E

Proposed Area in Ha of 40C- 0.16

Proposed Ghat of PO_CH_KC_GH_37, Block- Gidhor, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	301996.8399	2676658.147	24°11' 24.817" N	85°3' 2.352" E
P2	302023.2465	2676682.58	24°11' 25.298" N	85°3' 3.280" E
P3	301951.8015	2676499.027	24°11' 19.301" N	85°3' 0.840" E
P4	301947.988	2676592.183	24°11' 22.326" N	85°3' 0.659" E

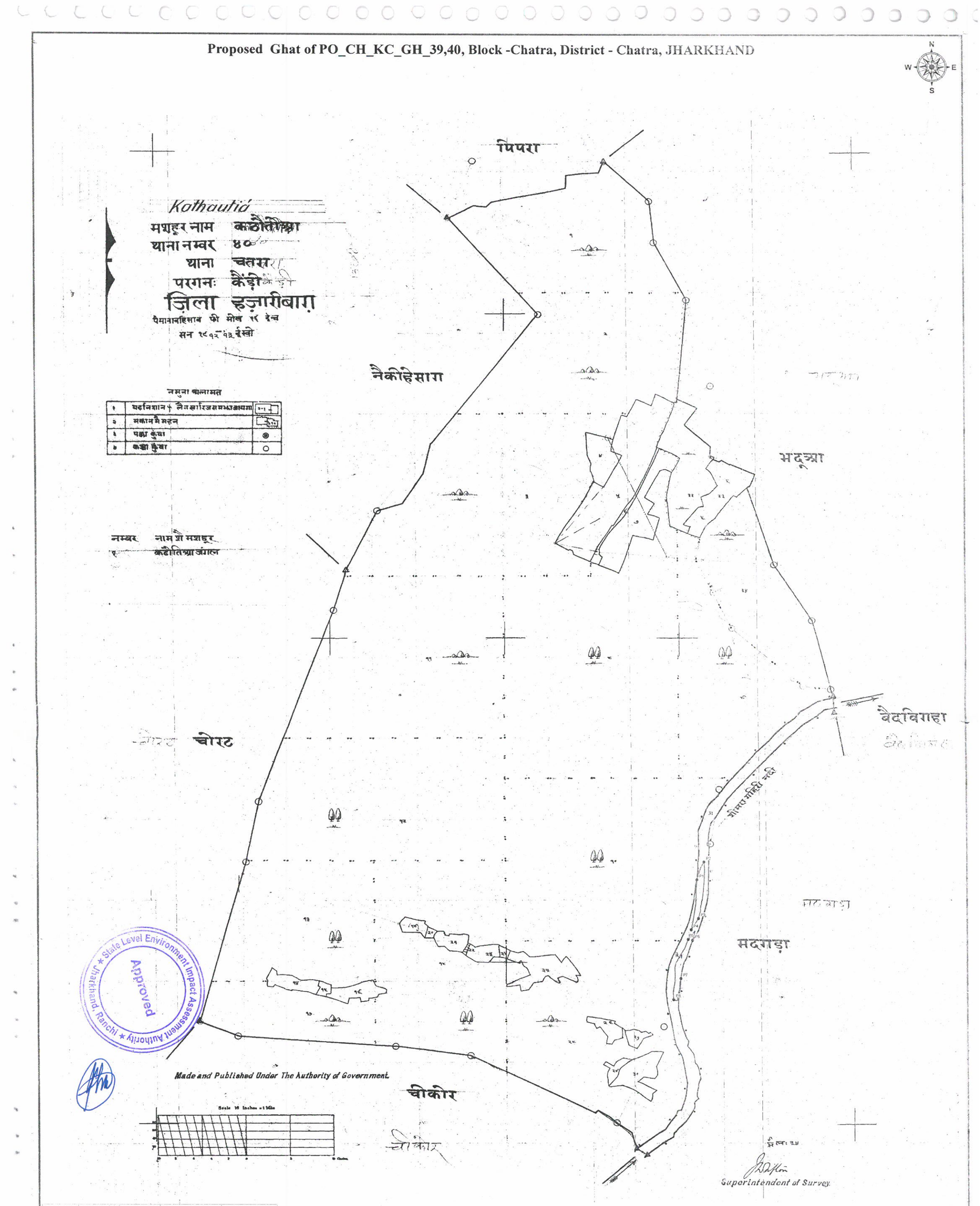
BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
GIDHOR	Katghara	27	2	120	RIVER	5.9629	
					TOTAL AREA	5.9629	

Proposed Area in Ha of 37- 0.35

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_KC_GH_39,40, Block -Chatra, District - Chatra, JHARKHAND



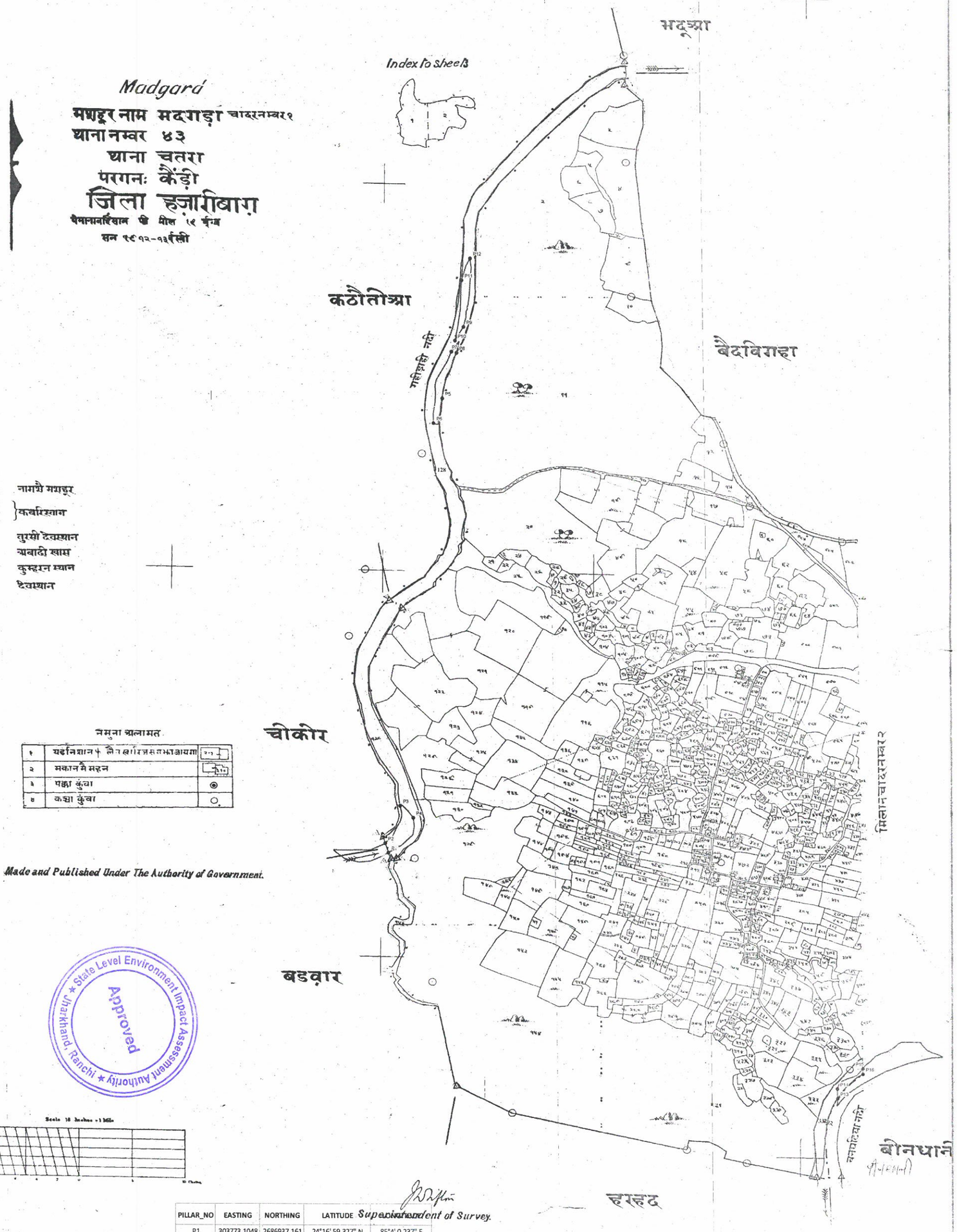
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	303934.0348	2688124.557	24°17' 37.986" N	85°4' 5.359" E
P2	303951.0803	2688169.141	24°17' 39.442" N	85°4' 5.941" E
P3	303935.8142	2688027.811	24°17' 34.843" N	85°4' 5.469" E
P4	303918.7168	2687999.673	24°17' 33.921" N	85°4' 4.877" E
P5	303911.3103	2687976.172	24°17' 33.154" N	85°4' 4.626" E
P6	303921.6475	2687973.769	24°17' 33.080" N	85°4' 4.994" E
P7	303892.463	2687879.078	24°17' 29.990" N	85°4' 4.006" E
P8	303874.7625	2687827.48	24°17' 28.305" N	85°4' 3.403" E

Proposed Area in Ha of 39- 0.20
Proposed Area in Ha of 40- 0.22

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
CHATRA	KATHAUTIA	40	1	31	RIVER	8.6507	
				TOTAL AREA		8.6507	

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_KC_GH_39,40,40A,22B Block -Chatra, District - Chatra, JHARKHAND



BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
CHATRA	MADGARA	43	1	128	RIVER	13.3142	
CHATRA	MADGARA	43	1	332	RIVER	1.3341	
				TOTAL AREA		14.6483	

Proposed Area in Ha of 39- 0.20
Proposed Area in Ha of 40- 0.22
Proposed Area in Ha of 40A- 0.45
Proposed Area in Ha of 22B- 0.68

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	303773.1048	2686937.161	24°16' 59.327" N	85°4' 0.237" E
P2	303767.1877	2686957.385	24°16' 59.982" N	85°4' 0.018" E
P3	303797.0554	2687034.692	24°17' 2.507" N	85°4' 1.039" E
P4	303821.6785	2687009.171	24°17' 1.689" N	85°4' 1.924" E
P5	303892.463	2687879.078	24°17' 29.990" N	85°4' 4.006" E
P6	303874.7625	2687827.48	24°17' 28.305" N	85°4' 3.403" E
P7	303911.3103	2687976.172	24°17' 33.154" N	85°4' 4.626" E
P8	303921.6475	2687973.769	24°17' 33.080" N	85°4' 4.994" E
P9	303935.8142	2688027.811	24°17' 34.843" N	85°4' 5.469" E
P10	303918.7168	2687999.673	24°17' 33.921" N	85°4' 4.877" E
P11	303934.0348	2688124.557	24°17' 37.986" N	85°4' 5.359" E
P12	303951.0803	2688169.141	24°17' 39.442" N	85°4' 5.941" E
P13	304629.5351	2686417.182	24°16' 42.815" N	85°4' 30.856" E
P14	304629.5214	2686436.857	24°16' 43.454" N	85°4' 30.844" E
P15	304679.3619	2686478.953	24°16' 44.845" N	85°4' 32.591" E
P16	304679.6053	2686467.437	24°16' 44.471" N	85°4' 32.605" E

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_KC_GH_17,18,19,20A,20B,20C,21A,22,22A,22B Block -Chatra, District - Chatra, JHARKHAND



Madgará

मशहूर नाम मदगाड़ा चादरनम्बर२
थाना नम्बर ४३
थाना चतरा
परगनः कैंदी
जिला हज़ारीबाग़
पैमानाजरीबसाब पी मील १६ इंच
सन १९१२–१३ ईस्वी

नमुना अलामत

१	यहनिशान पर लेन खारिजसमकालायगा	
२	मकानमैसहन	
३	पक्का कुंवा	◉
४	कच्चा कुंवा	○



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State Level Environment Impact Assessment Authority
Jharkhand, Ranchi

Superintendent of Survey

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
CHATRA	MADGARA	43	2	967	RIVER	16.824	
CHATRA	MADGARA	43	2	966	RIVER	2.0588	
				TOTAL AREA		18.8828	

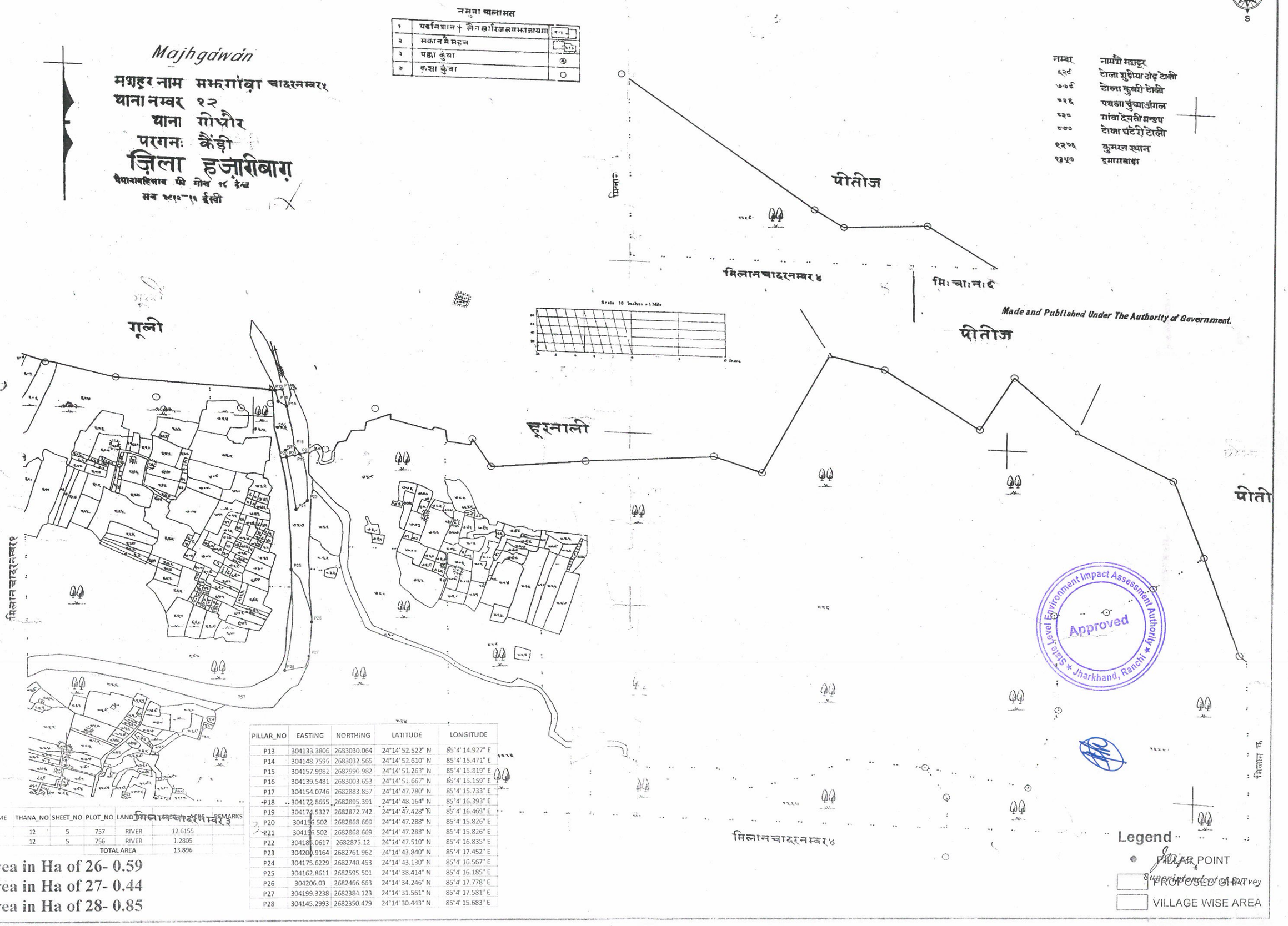
Proposed Area in Ha of 17- 0.62
Proposed Area in Ha of 18- 0.40
Proposed Area in Ha of 19- 0.68
Proposed Area in Ha of 20A- 0.23
Proposed Area in Ha of 20B- 0.47
Proposed Area in Ha of 20C- 0.17
Proposed Area in Ha of 21A- 0.29
Proposed Area in Ha of 22- 0.24
Proposed Area in Ha of 22A- 0.35
Proposed Area in Ha of 22B-0.68

Scale 10 Inches = 1 Mile

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P49	306159.1003	2687572.402	24°17' 21.040" N	85°5' 24.518" E
P50	306135.2284	2687548.069	24°17' 20.239" N	85°5' 23.683" E
P51	306050.1227	2687697.248	24°17' 25.049" N	85°5' 20.593" E
P52	306079.6688	2687687.463	24°17' 24.744" N	85°5' 21.644" E
P53	305996.438	2687800.658	24°17' 28.385" N	85°5' 18.640" E
P54	306017.8784	2687802.759	24°17' 28.463" N	85°5' 19.399" E
P55	306060.3398	2687712.802	24°17' 25.559" N	85°5' 20.948" E
P56	306039.7368	2687706.216	24°17' 25.336" N	85°5' 20.221" E
P17	304679.6053	2686467.437	24°16' 44.471" N	85°4' 32.605" E
P18	304679.3619	2686478.953	24°16' 44.845" N	85°4' 32.591" E
P19	304792.0861	2686532.013	24°16' 46.620" N	85°4' 36.561" E
P20	304830.302	2686503.879	24°16' 45.723" N	85°4' 37.930" E
P21	304844.3809	2686503.635	24°16' 45.721" N	85°4' 38.429" E
P22	304812.5355	2686525.265	24°16' 46.410" N	85°4' 37.289" E
P23	305005.0551	2686485.412	24°16' 45.201" N	85°4' 44.134" E
P24	304958.8093	2686480.371	24°16' 45.016" N	85°4' 42.497" E
P25	304978.5771	2686474.016	24°16' 44.819" N	85°4' 43.201" E
P26	305039.4861	2686470.318	24°16' 44.726" N	85°4' 45.362" E
P27	305155.8534	2686420.921	24°16' 43.173" N	85°4' 49.511" E
P28	305087.3095	2686430.407	24°16' 43.450" N	85°4' 47.077" E
P29	305508.1777	2686797.201	24°16' 55.558" N	85°5' 1.818" E
P30	305516.2414	2686802.057	24°16' 55.720" N	85°5' 2.102" E
P31	305612.8301	2686718.652	24°16' 53.052" N	85°5' 5.567" E
P32	305634.9131	2686706.097	24°16' 52.654" N	85°5' 6.356" E
P33	305800.1918	2686946.666	24°17' 0.546" N	85°5' 12.098" E
P34	305792.2042	2686935.237	24°17' 0.171" N	85°5' 11.820" E
P35	305720.5166	2687012.368	24°17' 2.645" N	85°5' 9.241" E
P36	305736.9197	2687009.013	24°17' 2.544" N	85°5' 9.824" E
P37	305721.1994	2687020.598	24°17' 2.913" N	85°5' 9.261" E
P38	305693.2223	2687037.068	24°17' 3.436" N	85°5' 8.261" E
P39	305618.0254	2687199.879	24°17' 8.693" N	85°5' 5.516" E
P40	305628.0732	2687236.417	24°17' 9.885" N	85°5' 5.855" E
P41	305627.2979	2687243.642	24°17' 10.119" N	85°5' 5.824" E
P42	305613.4402	2687223.792	24°17' 9.468" N	85°5' 5.342" E
P43	305582.5291	2687407.17	24°17' 15.413" N	85°5' 4.157" E
P44	305603.1347	2687381.687	24°17' 14.593" N	85°5' 4.793" E
P45	305823.1985	2687470.277	24°17' 17.572" N	85°5' 12.658" E
P46	305890.6323	2687463.436	24°17' 17.379" N	85°5' 15.053" E
P47	306057.2887	2687513.158	24°17' 19.070" N	85°5' 20.937" E
P48	306047.2744	2687499.617	24°17' 18.625" N	85°5' 20.589" E

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_KC_GH_26,27,28 Block -Gidhor, District - Chatra, JHARKHAND

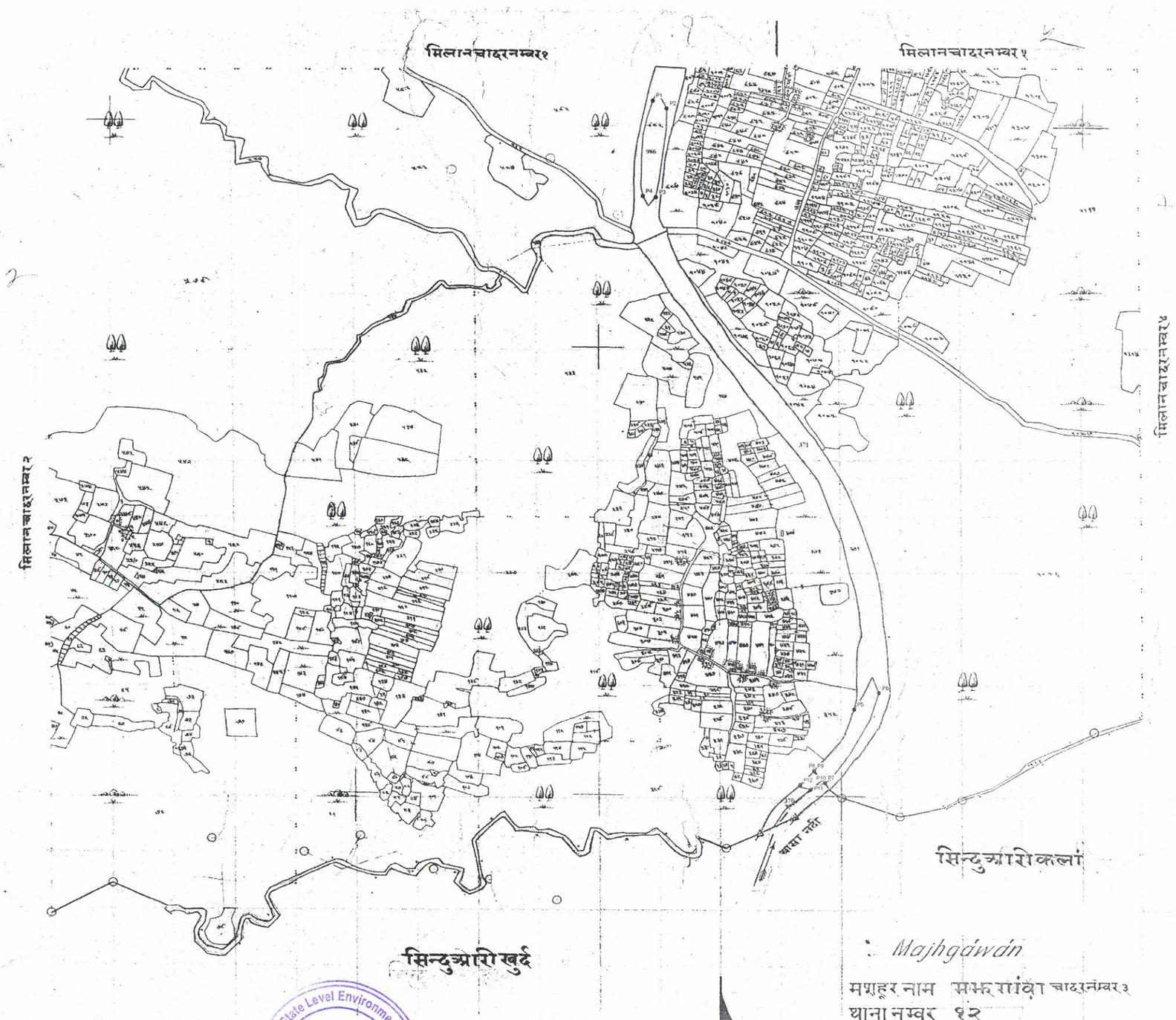


PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P13	304133.3806	2683030.064	24°14' 52.522" N	85°4' 14.927" E
P14	304148.7596	2683032.565	24°14' 52.610" N	85°4' 15.471" E
P15	304157.9982	2682990.982	24°14' 51.263" N	85°4' 15.819" E
P16	304139.5481	2683003.653	24°14' 51.667" N	85°4' 15.159" E
P17	304154.0746	2682883.857	24°14' 47.780" N	85°4' 15.733" E
P18	304172.8655	2682895.391	24°14' 48.164" N	85°4' 16.393" E
P19	304174.5327	2682872.742	24°14' 47.428" N	85°4' 16.463" E
P20	304156.502	2682868.669	24°14' 47.288" N	85°4' 15.826" E
P21	304156.502	2682868.669	24°14' 47.288" N	85°4' 15.826" E
P22	304186.0617	2682875.12	24°14' 47.510" N	85°4' 16.835" E
P23	304200.9164	2682761.962	24°14' 43.840" N	85°4' 17.452" E
P24	304175.6229	2682740.453	24°14' 43.130" N	85°4' 16.567" E
P25	304162.8611	2682595.501	24°14' 38.414" N	85°4' 16.185" E
P26	304206.03	2682466.663	24°14' 34.246" N	85°4' 17.778" E
P27	304199.3238	2682384.123	24°14' 31.561" N	85°4' 17.581" E
P28	304145.2993	2682350.479	24°14' 30.443" N	85°4' 15.683" E

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND	AREA_ACRE	REMARKS
GIDHOR	Majhgaon	12	5	757	RIVER	12.6155	
GIDHOR	Majhgaon	12	5	756	RIVER	1.2805	
				TOTAL AREA		13.896	

Proposed Area in Ha of 26- 0.59
Proposed Area in Ha of 27- 0.44
Proposed Area in Ha of 28- 0.85

Proposed Ghat of PO_CH_KC_GH_29,30 Block -Gidhor, District - Chatra, JHARKHAND



Majhgáwán

मशहूर नाम मझगांवा चादरनम्बर३
थाना नम्बर १२
थाना गोधौर
परगनः कैंड़ी
ज़िला हज़ारीबाग़
पैमानाबहिसाब फी मील १९ इंच
सन १८१२-१३ ईस्वी

Made and Published Under The Authority of Government.

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★ Approved

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३	पक्का कुंवा	◉
४	कच्चा कुंवा	○

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२९४	पोलपोलीयादेवस्थान
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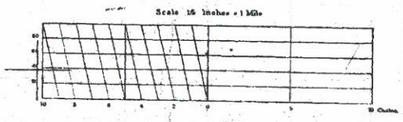
५७१	कुमरनस्थान
१०८०	गांवादेवतीस्थान
१२३०	भोगताहड़गड़ी

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
GIDHOR	Majhgaon	12	3	370	RIVER	0.5699	
GIDHOR	Majhgaon	12	3	371	RIVER	11.7537	
GIDHOR	Majhgaon	12	3	986	RIVER	3.8748	
				TOTAL AREA		16.1984	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P9	303623.3931	2680807.383	24°13' 40.063" N	85°3' 57.944" E
P10	303640.9683	2680785.06	24°13' 39.346" N	85°3' 58.578" E
P11	303616.7789	2680773.252	24°13' 38.951" N	85°3' 57.727" E
P12	303599.6689	2680782.026	24°13' 39.228" N	85°3' 57.116" E
P5	303692.0808	2680916.753	24°13' 43.648" N	85°4' 0.325" E
P6	303734.1195	2680945.806	24°13' 44.611" N	85°4' 1.800" E
P7	303640.9683	2680785.06	24°13' 39.346" N	85°3' 58.578" E
P8	303623.3931	2680807.383	24°13' 40.063" N	85°3' 57.944" E
P1	303374.5101	2682016.75	24°14' 19.251" N	85°3' 48.530" E
P2	303397.3491	2682002.702	24°14' 18.805" N	85°3' 49.346" E
P3	303376.5695	2681841.997	24°14' 13.573" N	85°3' 48.689" E
P4	303354.9826	2681844.034	24°14' 13.630" N	85°3' 47.923" E



Proposed Area in Ha of 29- 0.58
Proposed Area in Ha of 30- 0.60

Legend
Superintendent of Survey
● PILLAR POINT
PROPOSED GHAT
VILLAGE WISE AREA

Proposed Ghat of PO_CH_KC_GH_22I Block - Itkhori, District - Chatra, JHARKHAND



Pitij

मशहूर नाम पीतीज चाहरनम्बर१
थाना नम्बर ८
थाना गोंधौर
परगनः कैड़ी
जिला हज़ारीबाग़
पैमानाबहिसाब फी मील १८ इंच
सन १९१२-१३ ईसवी

नमूना चालान

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२	मकानपक्का	
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संखनदी

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Made and Published Under The Authority of Government.

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चतरासे

पीतीज

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★
Approved

Scale 16 Inches = 1 Mile

मिलानचाहरनम्बर३

Superintendent of Survey

BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
ITKHORI	PITIJ	8	1	1	RIVER	12.2827	
				TOTAL AREA		12.2827	

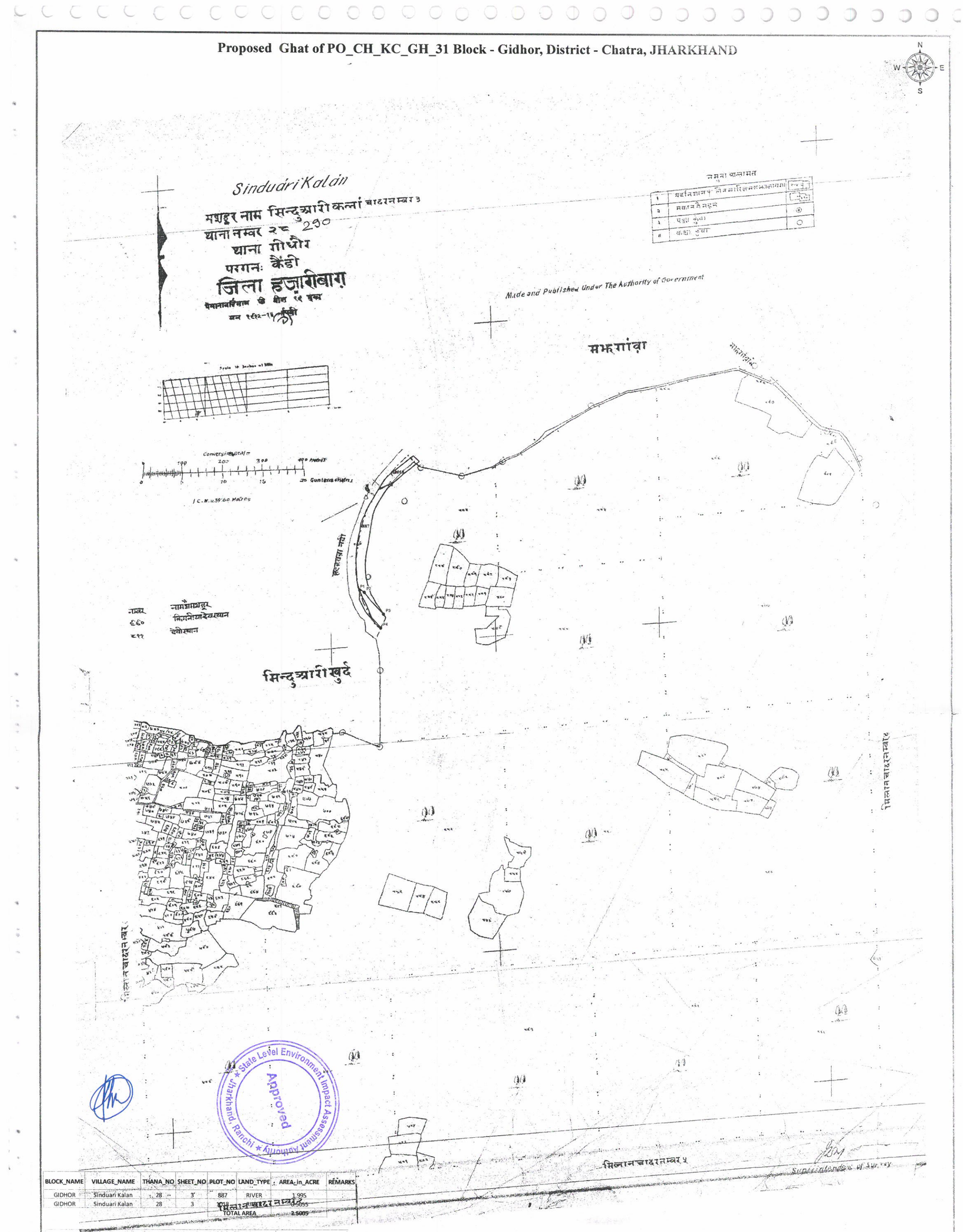
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	305035.4708	2685059.28	24°15' 58.870" N	85°4' 45.909" E
P2	305045.0891	2685096.616	24°16' 0.087" N	85°4' 46.232" E
P3	305089.1878	2685111.398	24°16' 0.588" N	85°4' 47.788" E
P4	305071.3785	2685078.425	24°15' 59.508" N	85°4' 47.172" E

Proposed Area in Ha of 22I- 0.24

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_KC_GH_31 Block - Gidhor, District - Chatra, JHARKHAND



BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
GIDHOR	Sinduari Kalan	28	3	887	RIVER	1.995	
GIDHOR	Sinduari Kalan	28	3	918	RIVER	0.5055	
				TOTAL AREA		2.5005	

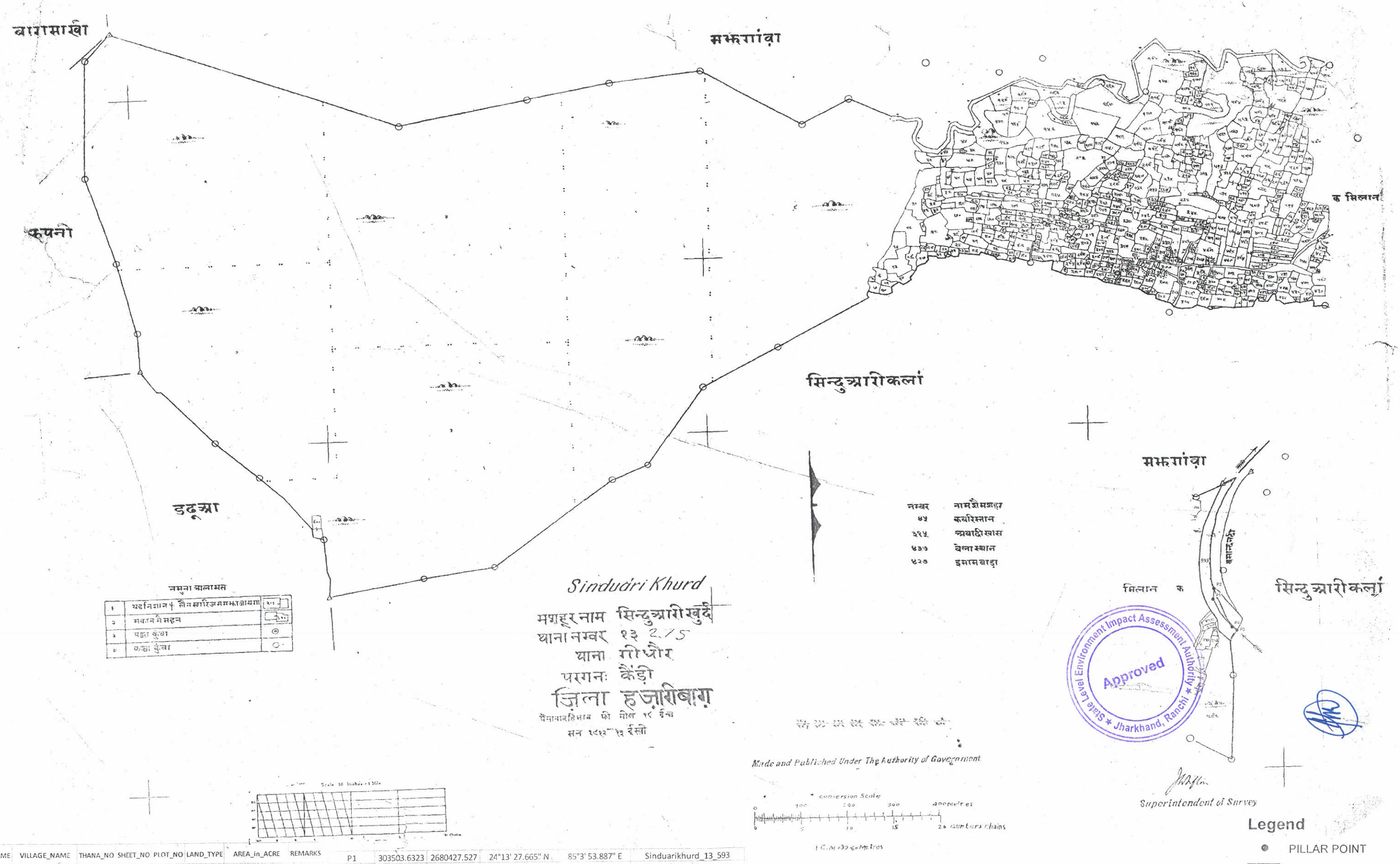
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	303505.1546	2680451.969	24°13' 28.460" N	85°3' 53.929" E
P2	303515.6206	2680445.977	24°13' 28.270" N	85°3' 54.303" E
P3	303559.6018	2680390.406	24°13' 26.484" N	85°3' 55.888" E
P4	303552.6137	2680355.484	24°13' 25.346" N	85°3' 55.658" E

Proposed Area in Ha of 31- 0.24

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_KC_GH_31 Block -Gidhor, District - Chatra, JHARKHAND



BLOCK_NAME	VILLAGE_NAME	THANA_NO	SHEET_NO	PLOT_NO	LAND_TYPE	AREA_in_ACRE	REMARKS
GIDHOR	Sinduarikhurd	13	1	593	RIVER	2.0179	
				TOTAL AREA		2.0179	

P1	303503.6323	2680427.527	24°13' 27.665" N	85°3' 53.887" E	Sinduarikhurd_13_593
P2	303505.1546	2680451.969	24°13' 28.460" N	85°3' 53.929" E	Sinduarikhurd_13_593
P3	303553.178	2680356.426	24°13' 25.377" N	85°3' 55.678" E	Sinduarikhurd_13_593
P4	303542.4344	2680363.946	24°13' 25.616" N	85°3' 55.293" E	Sinduarikhurd_13_593

Proposed Area in Ha of 31- 0.24

Lilajan(Falgu) River





PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	282418.4809	2706211.997	24° 27' 15.445" N	84° 51' 12.662" E
P2	282415.6226	2706010.939	24° 27' 8.911" N	84° 51' 12.671" E
P3	281987.0605	2706008.619	24° 27' 8.619" N	84° 50' 57.461" E
P4	282080.5848	2706194.308	24° 27' 14.699" N	84° 51' 0.678" E
P5	281988.1624	2706174.452	24° 27' 14.008" N	84° 50' 57.409" E
P6	281987.0605	2706008.619	24° 27' 8.619" N	84° 50' 57.461" E
P7	281825.4393	2706013.816	24° 27' 8.706" N	84° 50' 51.721" E
P8	281823.059	2706149.099	24° 27' 13.100" N	84° 50' 51.562" E

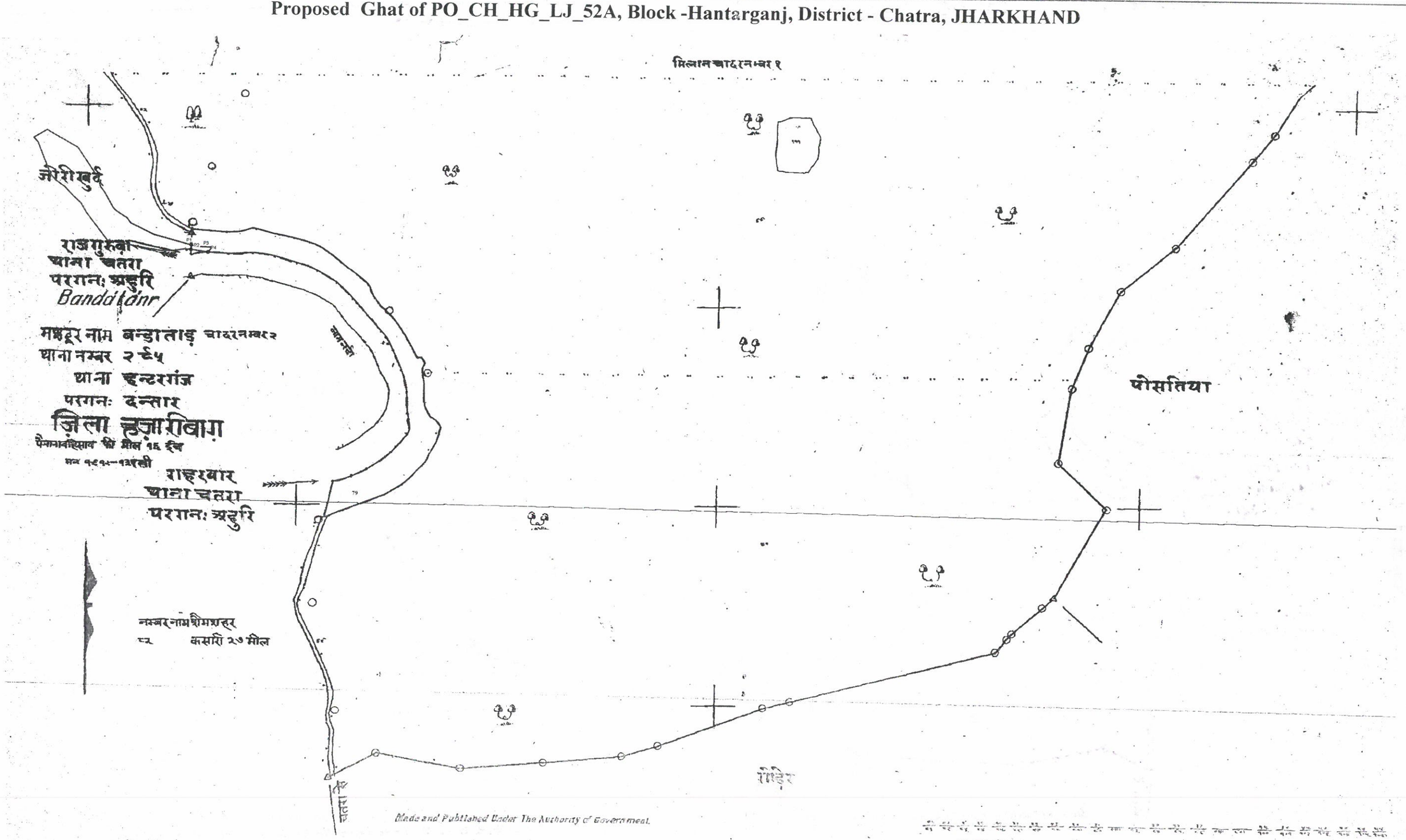
Proposed Area in Ha of 1A- 22.89

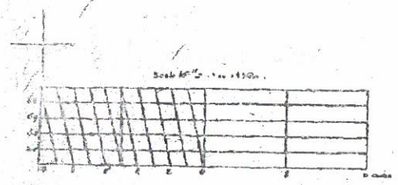
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Bahera	93	1	1	River	6.8695	
Hunterganj	Bahera	93	1	1133	River	23.6474	
				TOTAL AREA		30.5169	

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_52A, Block -Hantarganj, District - Chatra, JHARKHAND

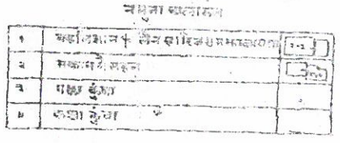


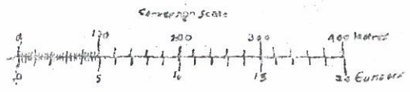


BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hantarganj	Bandatar	285	2	73	River	10.7822	
					TOTAL AREA	10.7822	

Proposed Area in Ha of 52A- 1.91

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	277236.9875	2687986.963	24°17' 20.658" N	84°48' 18.978" E
P2	277236.7901	2687976.618	24°17' 20.322" N	84°48' 18.977" E
P3	277276.5208	2687980.471	24°17' 20.467" N	84°48' 20.383" E
P4	277269.0555	2687970.976	24°17' 20.155" N	84°48' 20.123" E





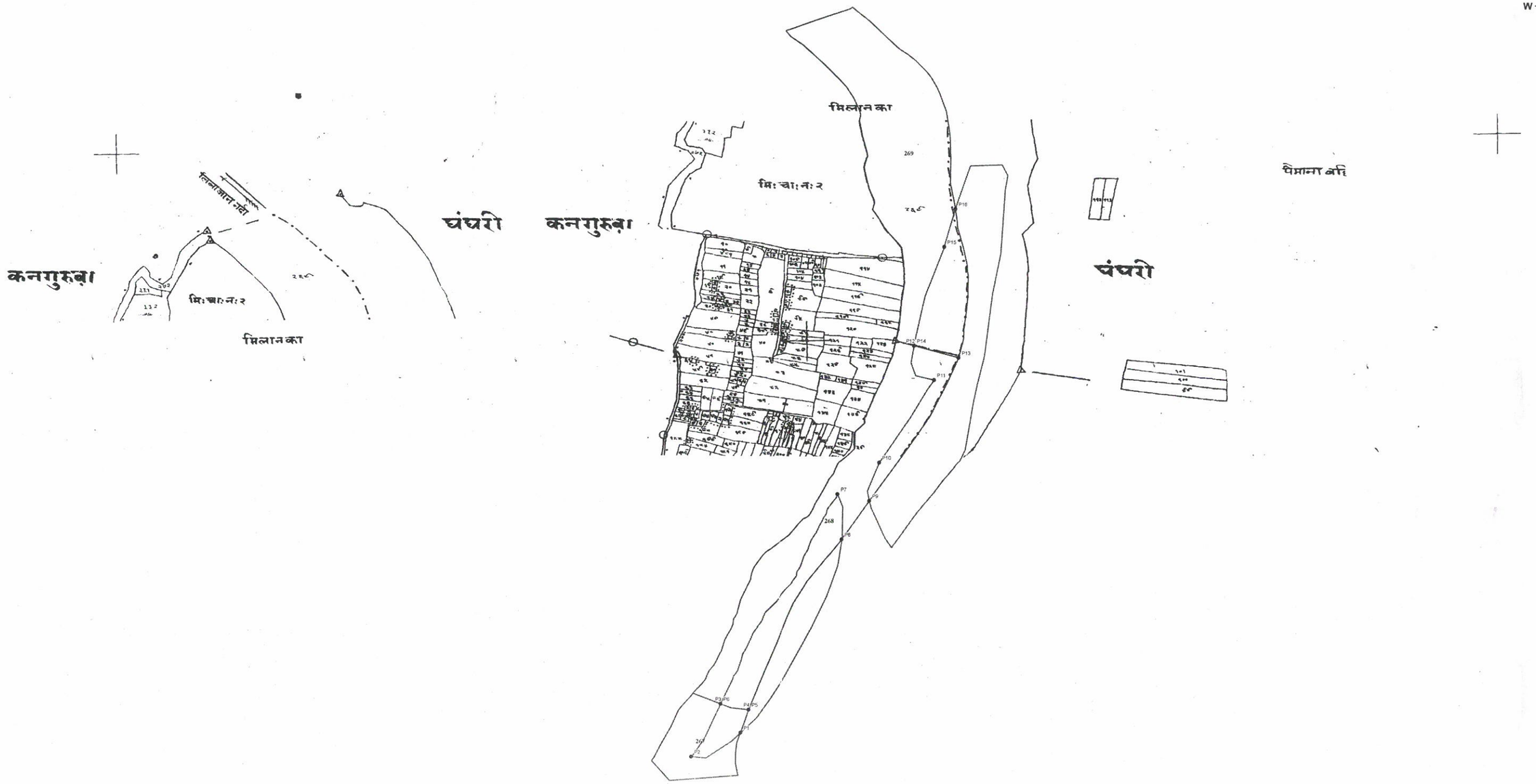
T. W. Bridge
Superintendent of Survey



Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_19,20, Block -Hunterganj, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	276440.9786	2694285.096	24° 20' 44.881" N	84° 47' 47.224" E
P2	276352.3206	2694238.219	24° 20' 43.312" N	84° 47' 44.106" E
P3	276405.7264	2694342.455	24° 20' 46.726" N	84° 47' 45.941" E
P4	276455.9252	2694330.698	24° 20' 46.370" N	84° 47' 47.728" E
P5	276455.9252	2694330.698	24° 20' 46.370" N	84° 47' 47.728" E
P6	276405.7264	2694342.455	24° 20' 46.726" N	84° 47' 45.941" E
P7	276616.2014	2694755.181	24° 21' 0.244" N	84° 47' 53.173" E
P8	276623.2703	2694666.338	24° 20' 57.361" N	84° 47' 53.474" E
P9	276672.8704	2694741.784	24° 20' 59.838" N	84° 47' 55.191" E
P10	276690.6787	2694817.032	24° 21' 2.292" N	84° 47' 55.780" E
P11	276789.1963	2694979.689	24° 21' 7.628" N	84° 47' 59.182" E
P12	276753.7147	2695048.059	24° 21' 9.831" N	84° 47' 57.886" E
P13	276833.1291	2695023.558	24° 21' 9.076" N	84° 48' 0.716" E
P14	276753.7147	2695048.059	24° 21' 9.831" N	84° 47' 57.886" E
P15	276808.4228	2695243.58	24° 21' 16.212" N	84° 47' 59.716" E
P16	276828.1258	2695317.752	24° 21' 18.632" N	84° 48' 0.373" E

Proposed Area in Ha of 19- 7.77
Proposed Area in Ha of 20- 3.63

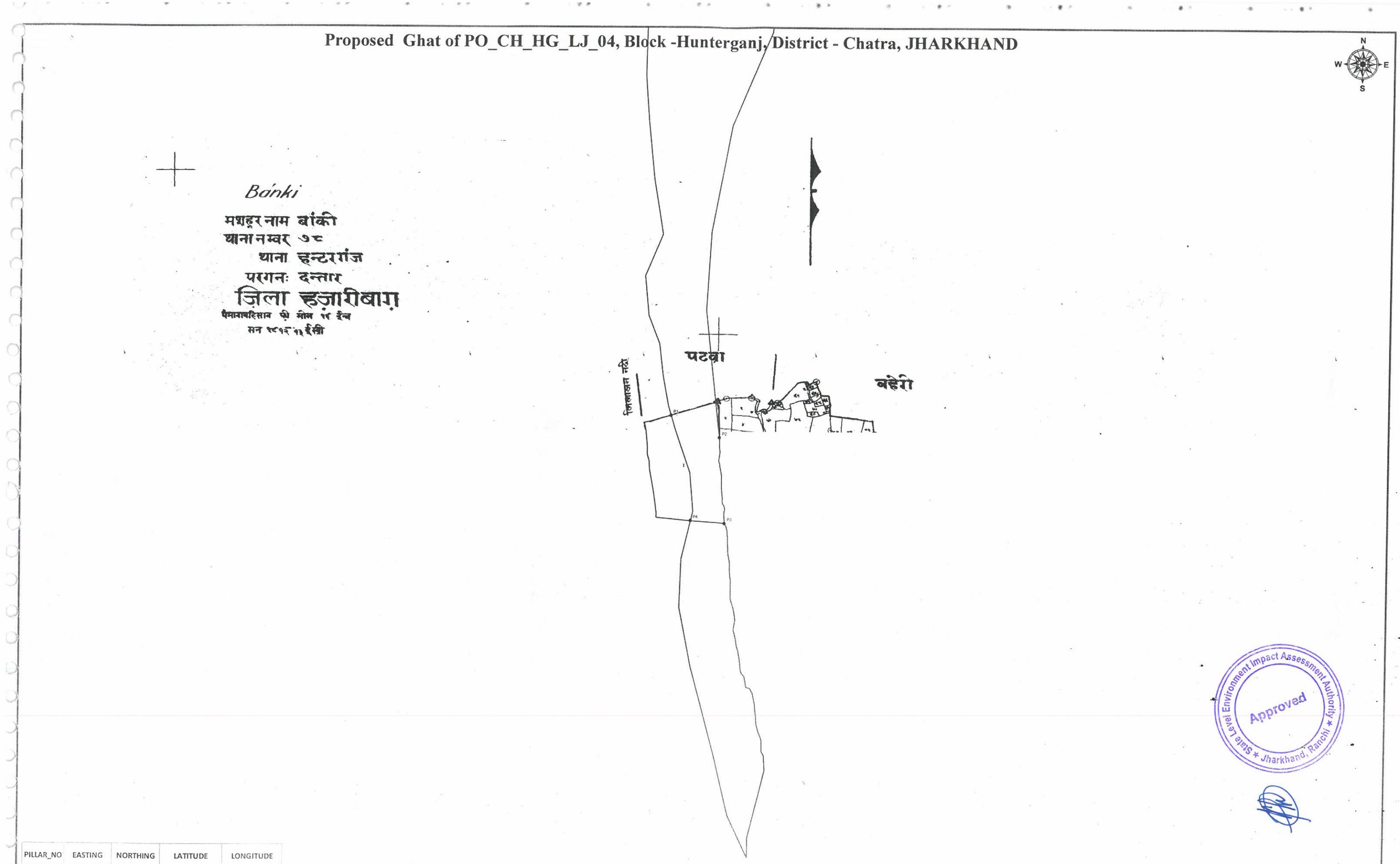
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Bandu	174	1	268	River	18.0523	
Hunterganj	Bandu	174	1	267	River	4.9711	
Hunterganj	Bandu	174	1	269	River	22.7925	
					TOTAL AREA	45.8159	

State Level Environment Impact Assessment Authority * Jharkhand, Ranchi *
Approved

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_04, Block -Hunterganj, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	278109.0523	2701607.03	24° 24' 43.633" N	84° 48' 42.284" E
P2	278216.1491	2701550.982	24° 24' 41.867" N	84° 48' 46.115" E
P3	278225.7291	2701343.396	24° 24' 35.127" N	84° 48' 46.572" E
P4	278150.4494	2701350.967	24° 24' 35.334" N	84° 48' 43.896" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Banki	78	1	1	River	10.2372	
				TOTAL AREA		10.2372	

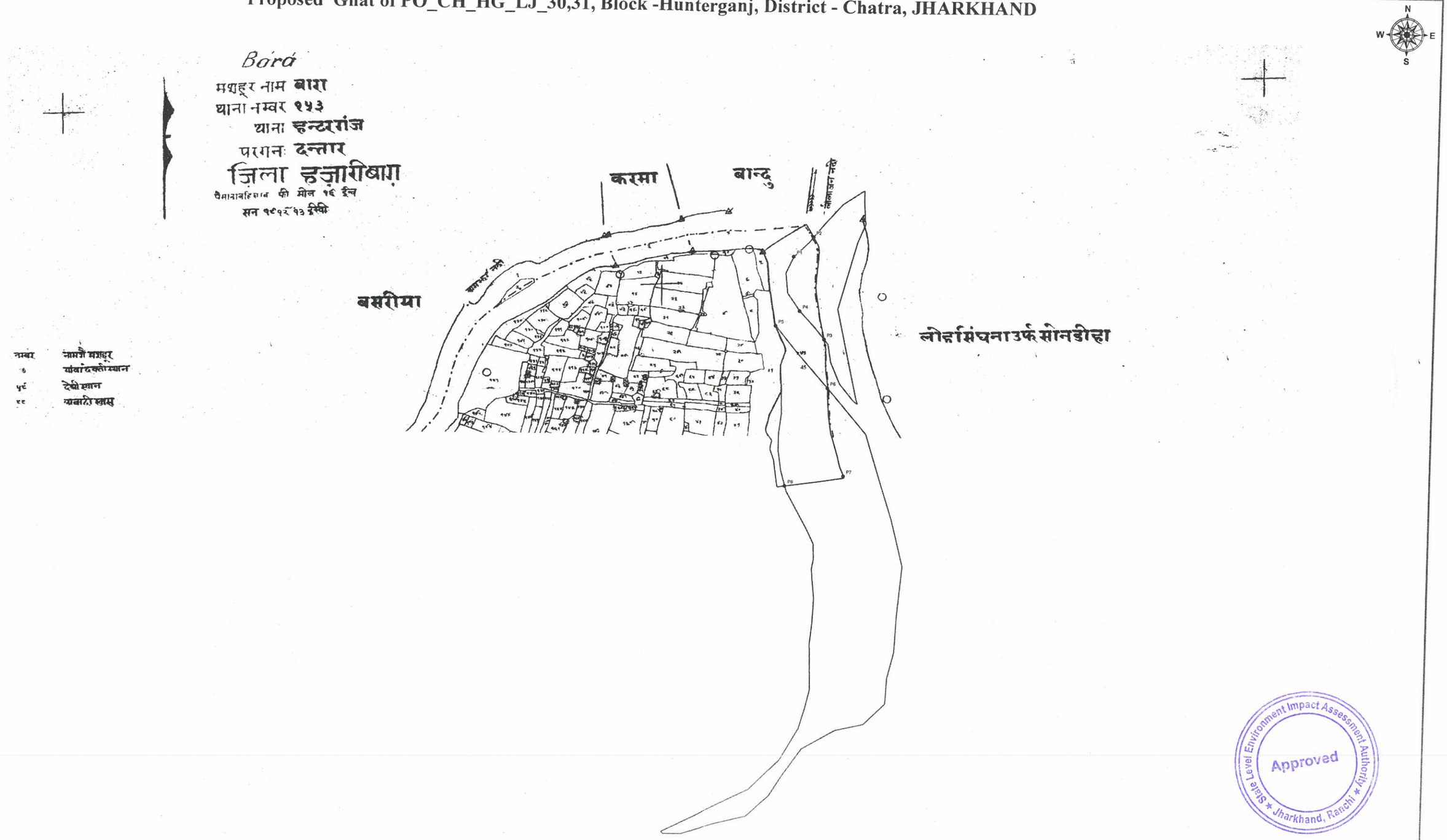
Proposed Area in Ha of 45- 45.72

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★
Approved

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_30,31, Block -Hunterganj, District - Chatra, JHARKHAND



नम्बर	नामशै मशहूर
७	गांवां दक्ती स्थान
५९	देवी स्थान
८८	बाबाटी खास

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	276412.8137	2694129.586	24° 20' 39.814" N	84° 47' 46.312" E
P2	276451.4622	2694171.727	24° 20' 41.203" N	84° 47' 47.659" E
P3	276472.9769	2693947.015	24° 20' 33.913" N	84° 47' 48.548" E
P4	276424.6376	2694009.956	24° 20' 35.933" N	84° 47' 46.799" E
P5	276377.482	2693977.829	24° 20' 34.865" N	84° 47' 45.145" E
P6	276480.0552	2693840.1	24° 20' 30.443" N	84° 47' 48.860" E
P7	276512.3931	2693646.437	24° 20' 24.167" N	84° 47' 50.115" E
P8	276396.6652	2693625.553	24° 20' 23.429" N	84° 47' 46.023" E

Proposed Area in Ha of 30- 3.06
Proposed Area in Ha of 30- 14.07

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Bara	153	1	45	River	13.6882	
				TOTAL AREA		13.6882	

State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_40,41,43, Block -Chatra, District - Chatra, JHARKHAND

Conversion Scale

R.F. 1: 3960

Barisaram

मशहूर नाम बरीसारम
थाना नम्बर १६४
थाना चतरा
परगनः अहुरि
जिला हजारीबाग़
पैमानावहिसाब फ़ी मील १६ ईन्च
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बखरडीह
थाना हन्टरगंज
परगनः दन्तार

कवौन

नमूना चलानात

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२	मकान में मंदन	
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४	कच्चा कुंआ	○

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	274941.2621	2687528.379	24° 17' 4.577" N	84° 46' 57.859" E
P2	274979.1454	2687565.489	24° 17' 5.802" N	84° 46' 59.181" E
P3	275266.0802	2687343.296	24° 16' 58.731" N	84° 47' 9.477" E
P4	275276.8381	2687309.523	24° 16' 57.639" N	84° 47' 9.877" E
P5	275312.5502	2687272.696	24° 16' 56.461" N	84° 47' 11.163" E
P6	275277.3112	2687335.392	24° 16' 58.480" N	84° 47' 9.879" E
P7	275537.1093	2687127.695	24° 16' 51.866" N	84° 47' 19.205" E
P8	275473.9592	2687141.106	24° 16' 52.269" N	84° 47' 16.959" E
P9	275611.6489	2686724.299	24° 16' 38.798" N	84° 47' 22.074" E
P10	275684.6748	2686773.873	24° 16' 40.446" N	84° 47' 24.634" E
P11	275619.5785	2686536.044	24° 16' 32.685" N	84° 47' 22.461" E
P12	275563.6784	2686570.052	24° 16' 33.761" N	84° 47' 20.460" E
P13	275563.6784	2686570.052	24° 16' 33.761" N	84° 47' 20.460" E
P14	275619.5785	2686536.044	24° 16' 32.685" N	84° 47' 22.461" E
P15	275321.2247	2686229.317	24° 16' 22.566" N	84° 47' 12.059" E
P16	275284.0873	2686268.468	24° 16' 23.818" N	84° 47' 10.720" E
P17	275284.0873	2686268.468	24° 16' 23.818" N	84° 47' 10.720" E
P18	275321.2247	2686229.317	24° 16' 22.566" N	84° 47' 12.059" E
P19	275120.891	2686041.027	24° 16' 16.344" N	84° 47' 5.064" E
P20	275175.9846	2686133.784	24° 16' 19.387" N	84° 47' 6.965" E

Proposed Area in Ha of 40- 2.50
Proposed Area in Ha of 41- 1.86
Proposed Area in Ha of 43- 9.43

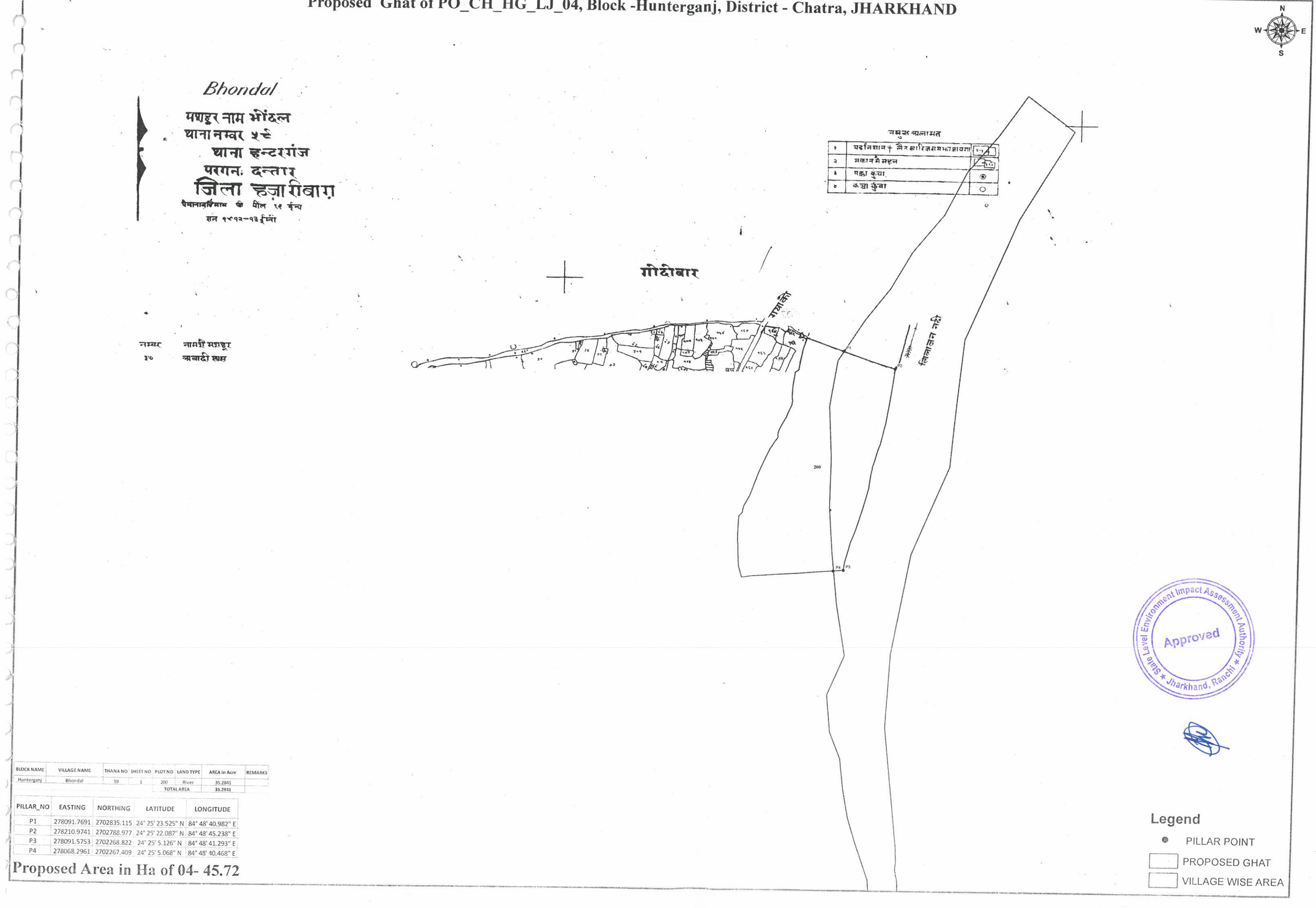
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Chatra	Barisaram	164	1	3	River	10.7246	
Chatra	Barisaram	164	1	104	River	6.8356	
Chatra	Barisaram	164	1	105	River	6.9077	
Chatra	Barisaram	164	1	103	River	0.955	
					TOTAL AREA		29.4229

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★ Approved

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_04, Block -Hunterganj, District - Chatra, JHARKHAND

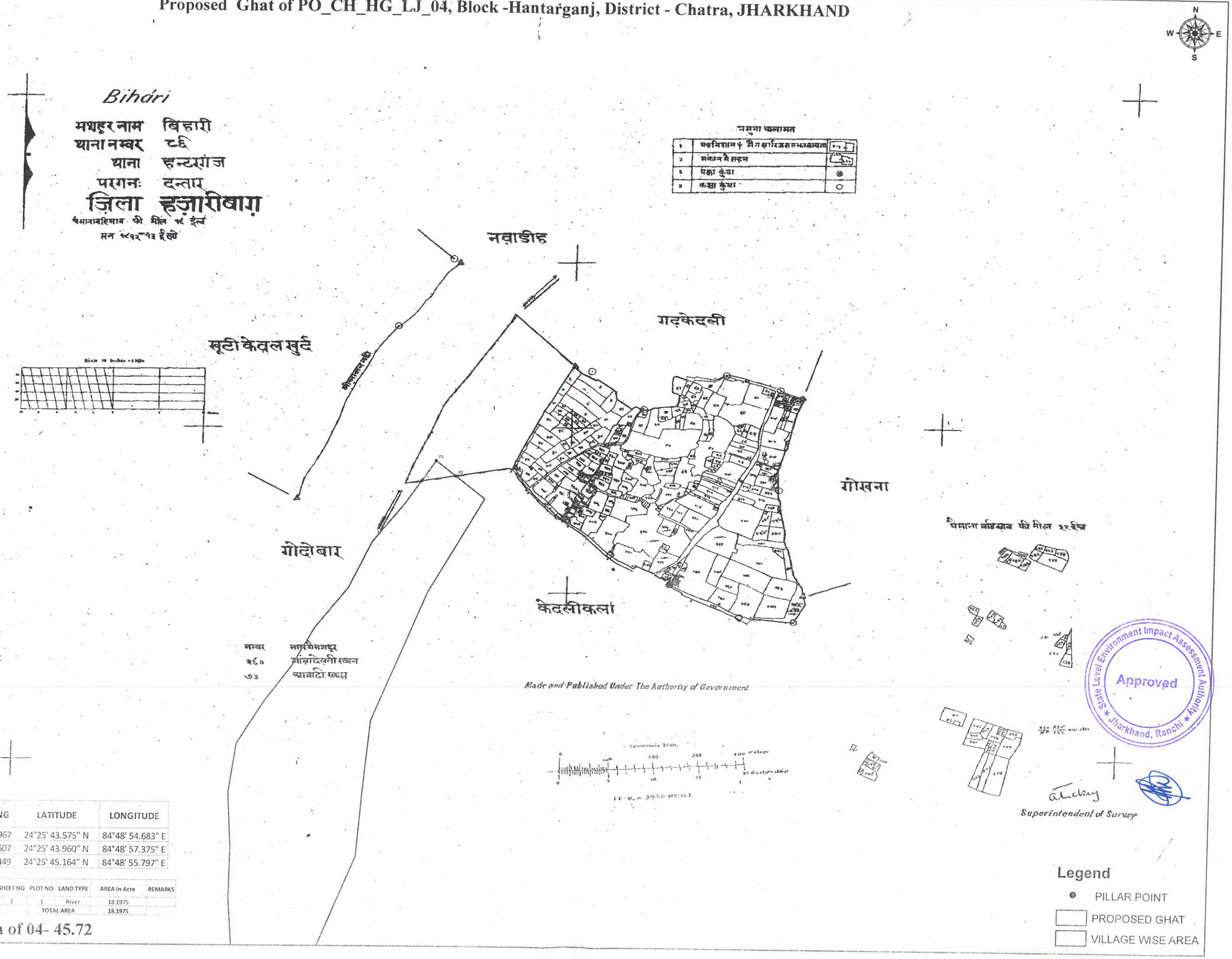


BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Bhondal	59	1	200	River	35.2841	
				TOTAL AREA		35.2841	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	278091.7691	2702835.115	24° 25' 23.525" N	84° 48' 40.982" E
P2	278210.9741	2702788.977	24° 25' 22.087" N	84° 48' 45.238" E
P3	278091.5753	2702268.822	24° 25' 5.126" N	84° 48' 41.293" E
P4	278068.2961	2702267.409	24° 25' 5.068" N	84° 48' 40.468" E

Proposed Area in Ha of 04- 45.72

Proposed Ghat of PO_CH_HG_LJ_04, Block -Hantarganj, District - Chatra, JHARKHAND

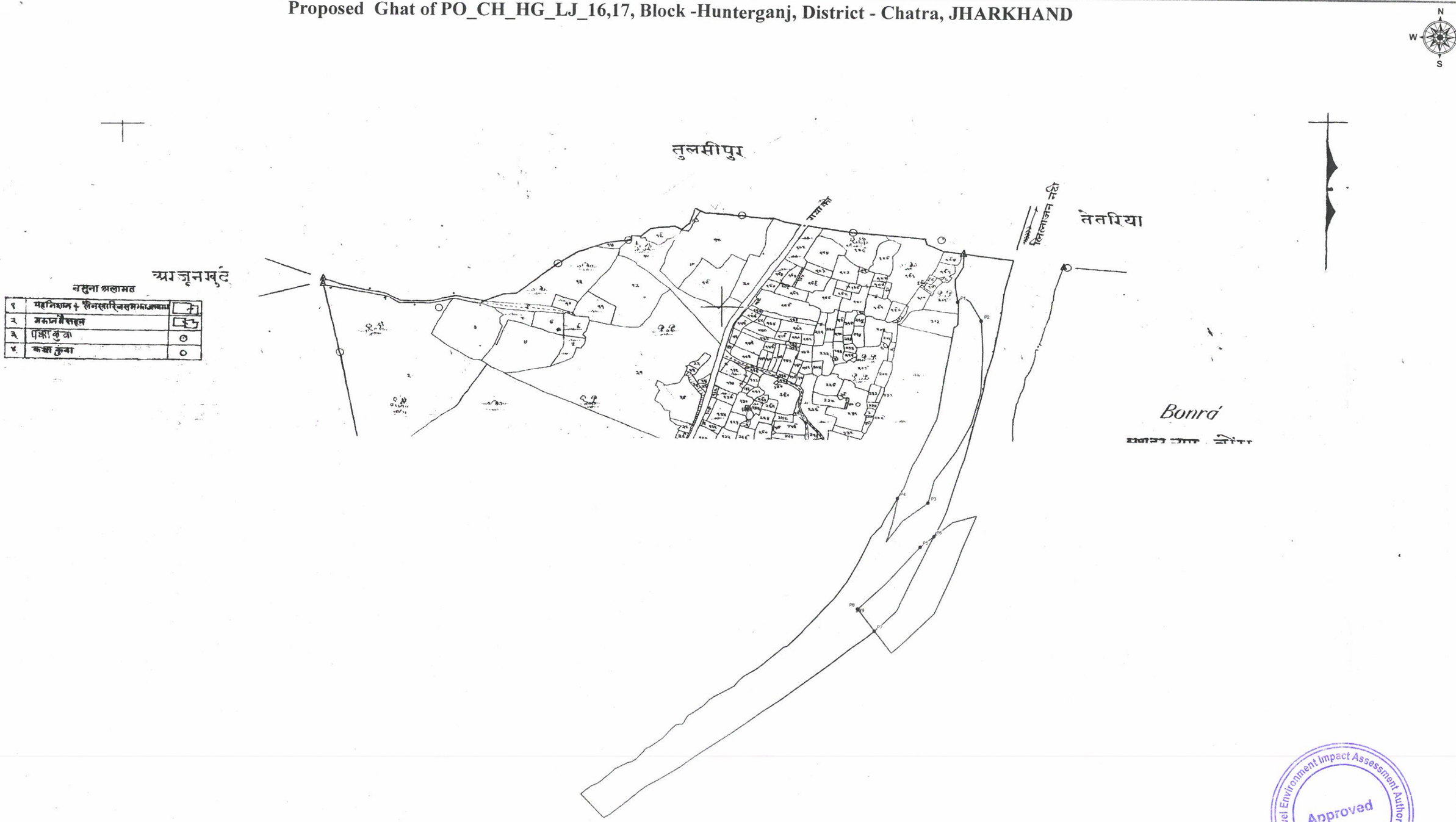


PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	278487.4851	2703445.967	24°25' 43.575" N	84°48' 54.683" E
P2	278563.5287	2703456.607	24°25' 43.960" N	84°48' 57.375" E
P3	278519.6457	2703494.349	24°25' 45.164" N	84°48' 55.797" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Bihari	86	1	1	River	18.1975	
				TOTAL AREA		18.1975	

Proposed Area in Ha of 04- 45.72

Proposed Ghat of PO_CH_HG_LJ_16,17, Block -Hunterganj, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	277762.8417	2697635.621	24° 22' 34.421" N	84° 48' 32.226" E
P2	277809.7905	2697593.576	24° 22' 33.079" N	84° 48' 33.915" E
P3	277703.3435	2697191.761	24° 22' 19.969" N	84° 48' 30.365" E
P4	277641.8202	2697202.093	24° 22' 20.273" N	84° 48' 28.176" E
P5	277687.2389	2697094.166	24° 22' 16.790" N	84° 48' 29.848" E
P6	277714.6909	2697117.148	24° 22' 17.551" N	84° 48' 30.809" E
P7	277594.8573	2696910.006	24° 22' 10.759" N	84° 48' 26.674" E
P8	277561.3807	2696958.598	24° 22' 12.321" N	84° 48' 25.460" E

Proposed Area in Ha of 16- 3.08
Proposed Area in Ha of 17- 2.82

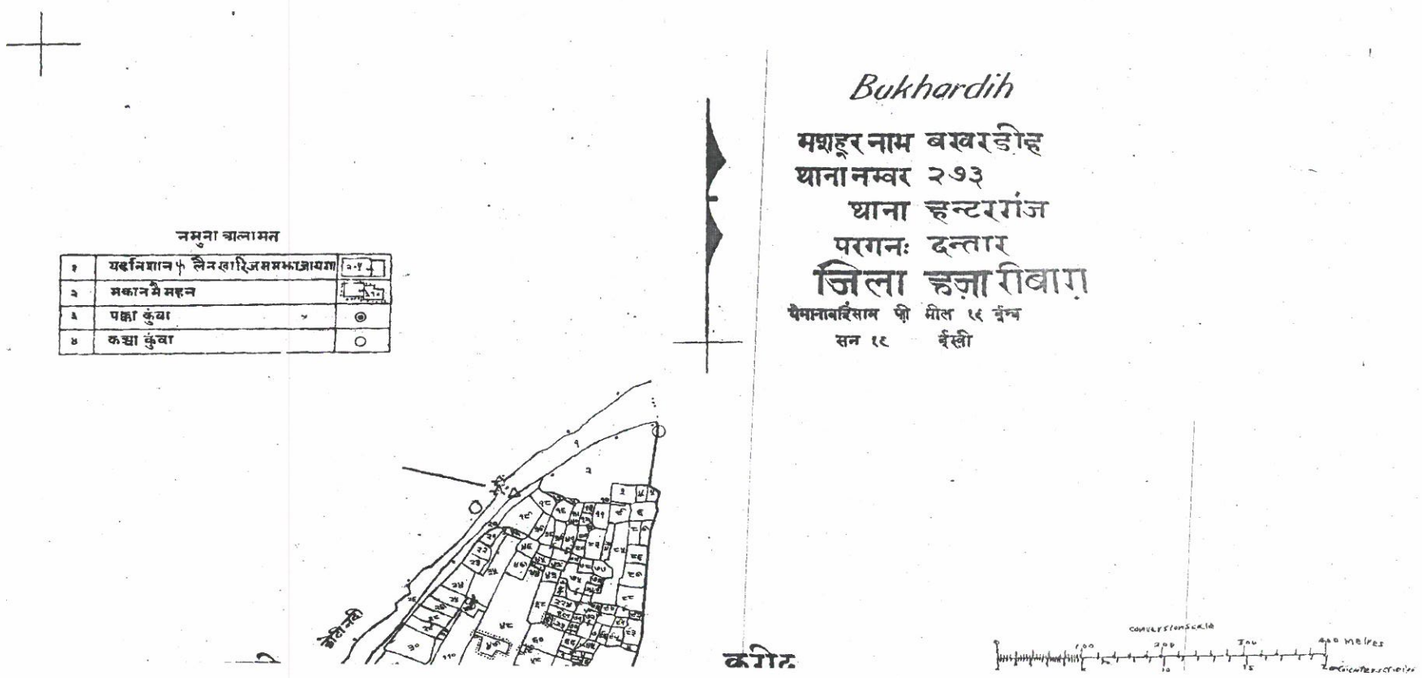
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Bonra	133	1	389	River	33.3417	
				TOTAL AREA		33.3417	

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★
Approved

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_40, Block -Hunterganj, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Bukharardih	273	1	219	River	8.1325	
				TOTAL AREA		8.1325	

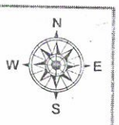
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	274979.1454	2687565.489	24° 17' 5.802" N	84° 46' 59.181" E
P2	274941.2621	2687528.379	24° 17' 4.577" N	84° 46' 57.859" E
P3	274872.3147	2687599.053	24° 17' 6.837" N	84° 46' 55.375" E
P4	274941.6784	2687593.518	24° 17' 6.693" N	84° 46' 57.837" E

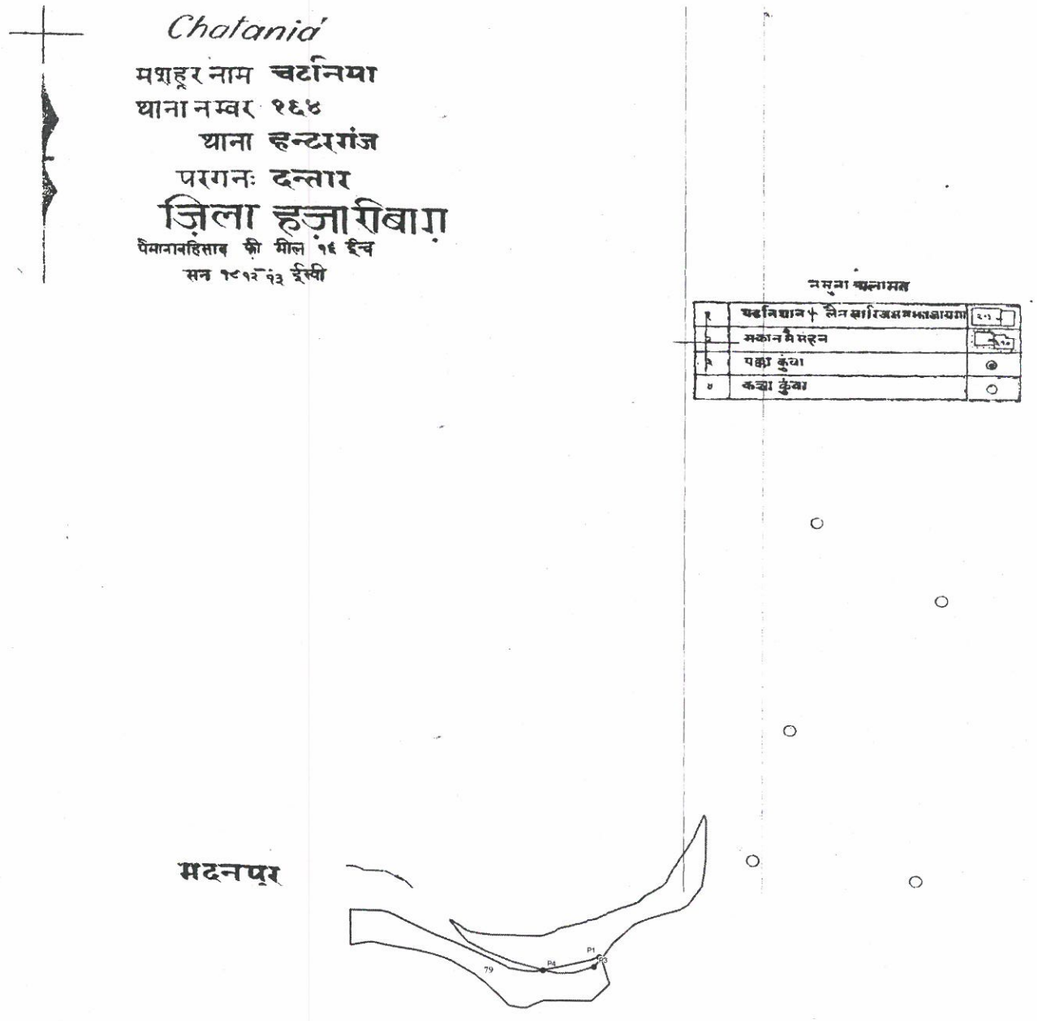
Proposed Area in Ha of 40- 2.50

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_23, Block -Hunterganj, District - Chatra, JHARKHAND





BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Chatania	164	1	79	River	3.1905	
				TOTAL AREA		3.1905	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	272617.8803	2692353.846	24° 19' 40.148" N	84° 45' 32.750" E
P2	272620.6372	2692351.424	24° 19' 40.070" N	84° 45' 32.849" E
P3	272611.5654	2692340.537	24° 19' 39.712" N	84° 45' 32.533" E
P4	272547.7907	2692336.054	24° 19' 39.533" N	84° 45' 30.275" E

Proposed Area in Ha of 23- 1.38

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★ Approved

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_44, Block -Chatra, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Chatra	Chetma	169	1	1	River	27.7792	
				TOTAL AREA		27.7792	

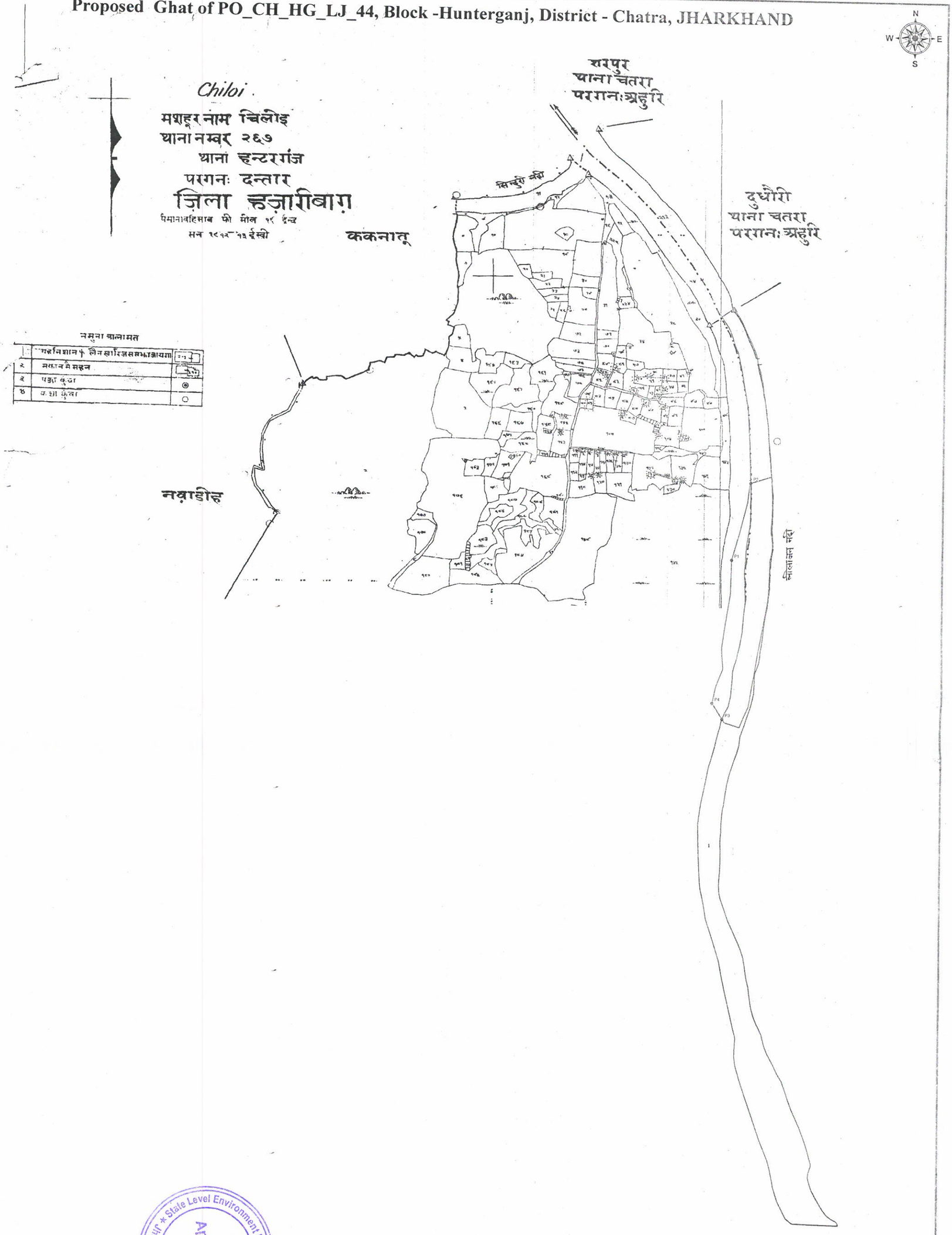
Proposed Area in Ha of 44- 3.97

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	275423.6235	2684406.154	24° 15' 23.382" N	84° 47' 16.714" E
P2	275467.8729	2684419.933	24° 15' 23.853" N	84° 47' 18.274" E
P3	275396.4993	2683846.413	24° 15' 5.182" N	84° 47' 16.067" E
P4	275360.2372	2683865.968	24° 15' 5.799" N	84° 47' 14.771" E

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_44, Block -Hunterganj, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Chiloi	267	1	144	River	26.9403	
				TOTAL AREA		26.9403	

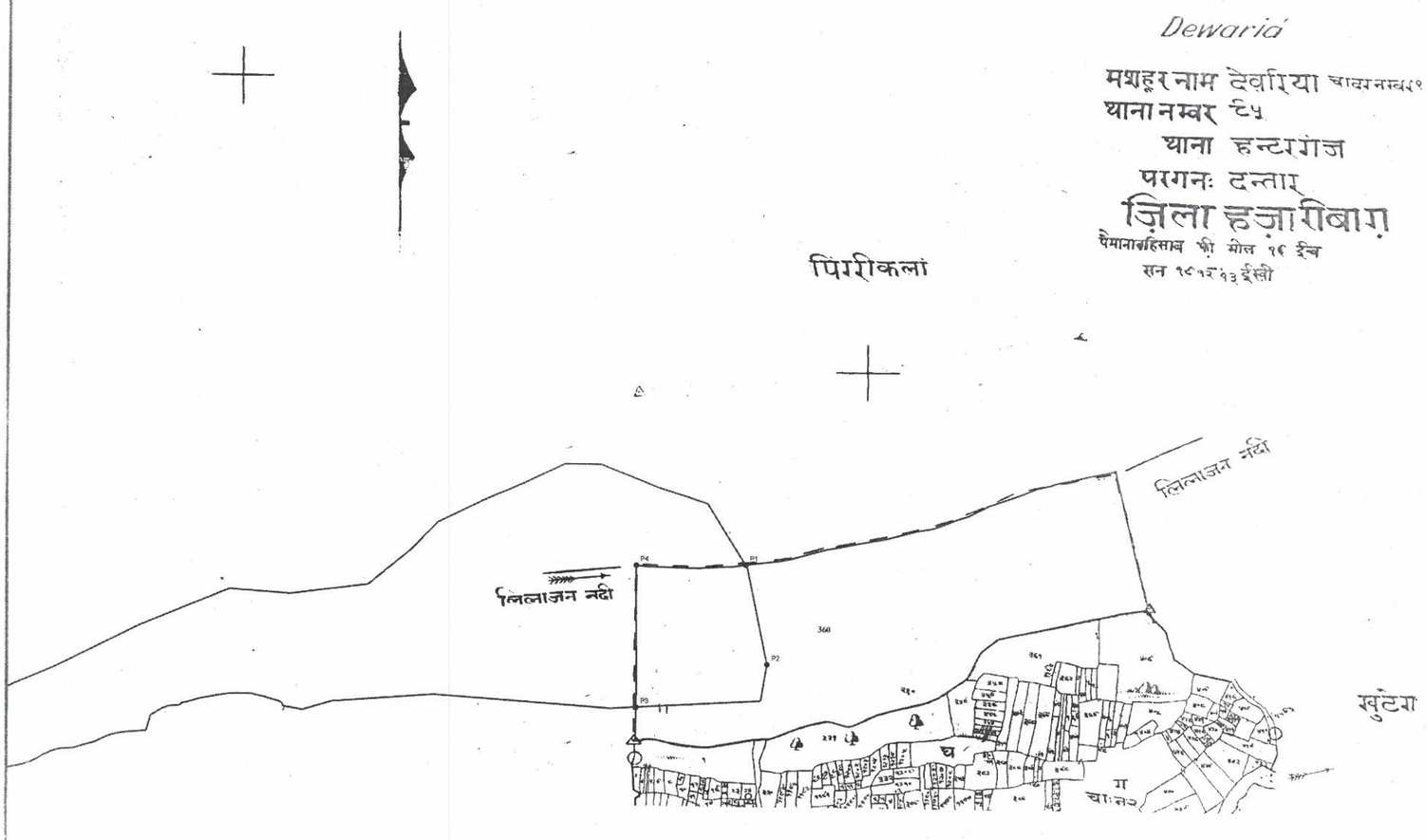
Proposed Area in Ha of 44- 3.97

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	275381.9571	2684229.938	24° 15' 17.636" N	84° 47' 15.336" E
P2	275423.6235	2684406.154	24° 15' 23.382" N	84° 47' 16.714" E
P3	275360.2372	2683865.968	24° 15' 5.799" N	84° 47' 14.771" E
P4	275338.1847	2683902.75	24° 15' 6.982" N	84° 47' 13.969" E

Approved
State Level Environment Impact Assessment Authority * Jharkhand, Ranchi *

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_1A, Block -Chatra, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Dewaria	95	1	360	River	36.736	
				TOTAL AREA		36.736	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	282560.5322	2706211.519	24° 27' 15.501" N	84° 51' 17.704" E
P2	282586.6407	2706071.014	24° 27' 10.949" N	84° 51' 18.708" E
P3	282415.6226	2706010.939	24° 27' 8.911" N	84° 51' 12.671" E
P4	282418.4809	2706211.997	24° 27' 15.445" N	84° 51' 12.662" E

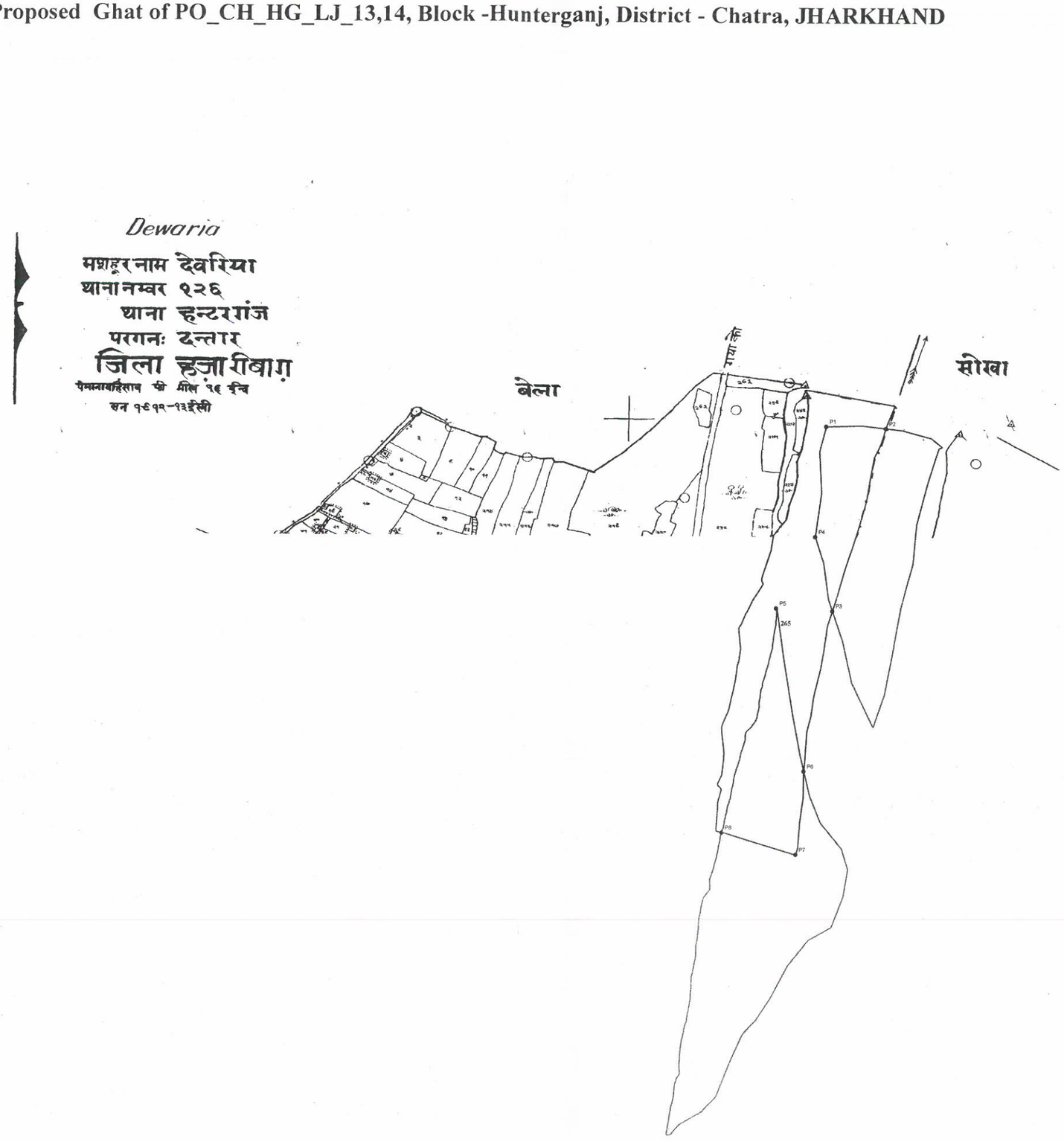
Proposed Area in Ha of 1A- 22.89

State Level Environment Impact Assessment Authority * Jharkhand, Ranchi *
Approved

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_13,14, Block -Hunterganj, District - Chatra, JHARKHAND



नमूना अलामत

१	यदनिशान + लैन खारिज समझा जायगा	
२	मकान मै सहन	
३	पक्का कुंवा	◉
४	कच्चा कुंवा	○

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	278101.0242	2699327.042	24° 23' 29.550" N	84° 48' 43.276" E
P2	278199.0978	2699322.337	24° 23' 29.448" N	84° 48' 46.758" E
P3	278110.202	2698992.036	24° 23' 18.670" N	84° 48' 43.789" E
P4	278082.1392	2699127.084	24° 23' 23.044" N	84° 48' 42.718" E
P5	278017.8321	2698998.069	24° 23' 18.819" N	84° 48' 40.509" E
P6	278062.2557	2698703.05	24° 23' 9.256" N	84° 48' 42.250" E
P7	278048.5971	2698551.548	24° 23' 4.327" N	84° 48' 41.850" E
P8	277927.9428	2698593.292	24° 23' 5.621" N	84° 48' 37.547" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Dewaria	126	1	265	River	26.6459	
				TOTAL AREA		26.6459	

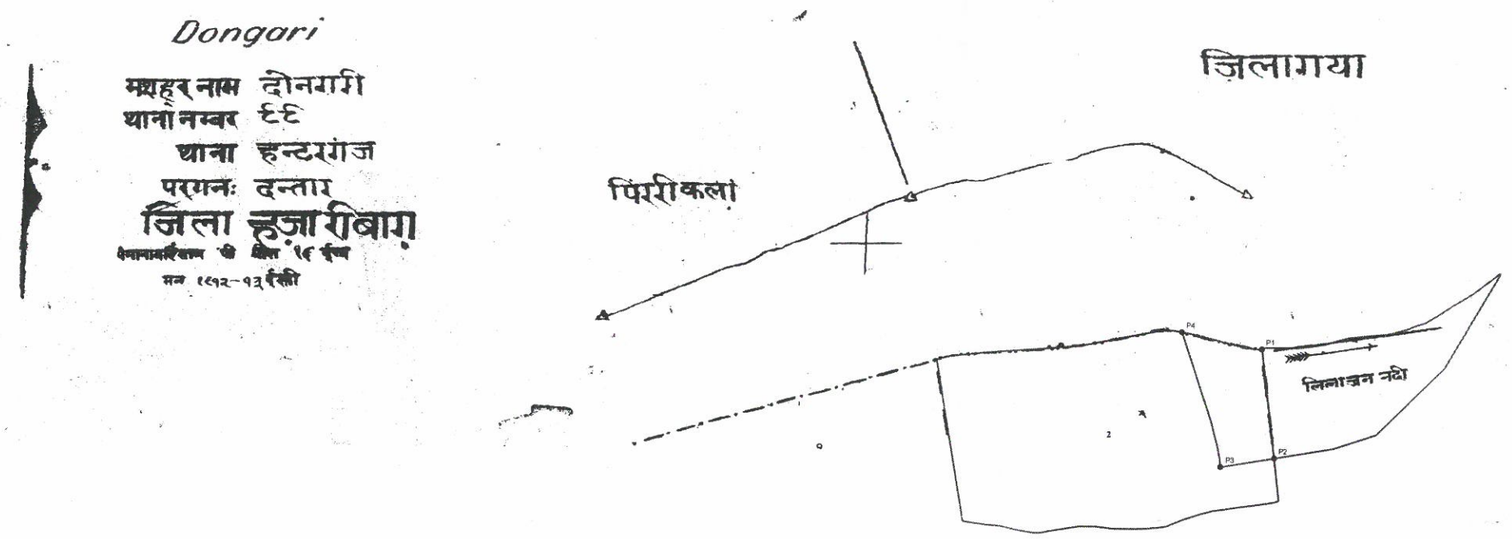
Proposed Area in Ha of 13- 6.66
Proposed Area in Ha of 14- 10.67

State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_01, Block -Hunterganj, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	283899.1264	2706498.308	24° 27' 25.491" N	84° 52' 5.061" E
P2	283914.193	2706351.002	24° 27' 20.713" N	84° 52' 5.677" E
P3	283849.6808	2706339.947	24° 27' 20.321" N	84° 52' 3.393" E
P4	283802.8211	2706521.978	24° 27' 26.212" N	84° 52' 1.630" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Dongari	99	1	2	River	23.383	
				TOTAL AREA		23.383	

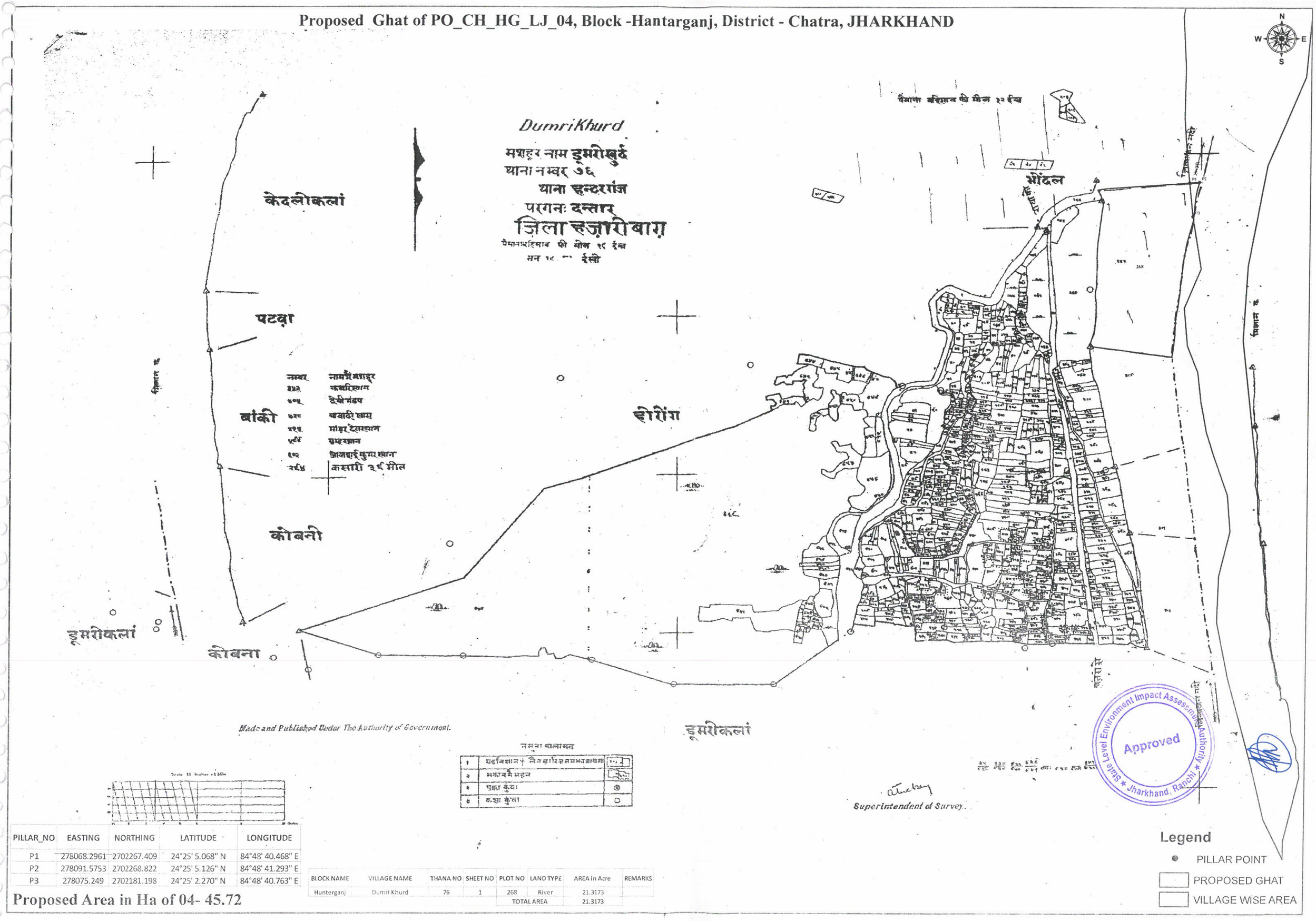
Proposed Area in Ha of 01- 4.27

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★
Approved

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_04, Block -Hantarganj, District - Chatra, JHARKHAND

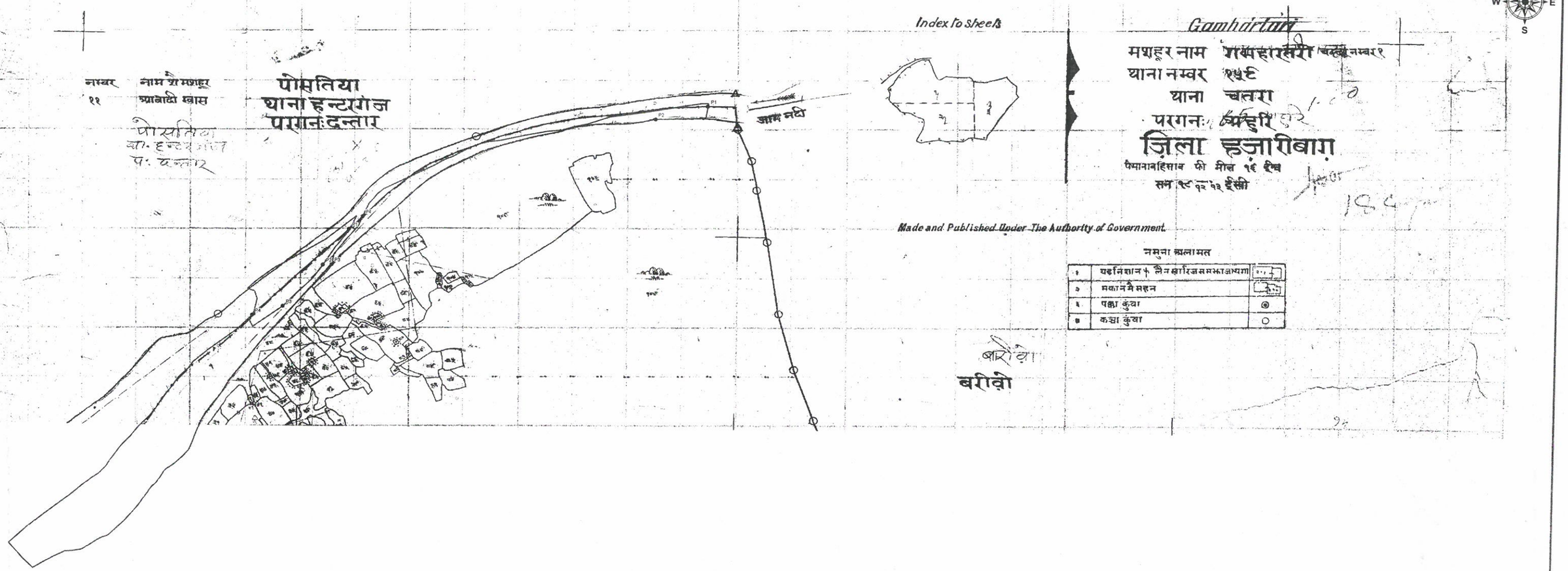


PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	278068.2961	2702267.409	24°25' 5.068" N	84°48' 40.468" E
P2	278091.5753	2702268.822	24°25' 5.126" N	84°48' 41.293" E
P3	278075.249	2702181.198	24°25' 2.270" N	84°48' 40.763" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Dumri Khurd	76	1	268	River	21.3173	
				TOTAL AREA		21.3173	

Proposed Area in Ha of 04- 45.72

Proposed Ghat of PO_CH_HG_LJ_57_58,59, Block -Chatra, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Chatra	Gamhartari	159	1	1	River	20.8786	
				TOTAL AREA		20.8786	

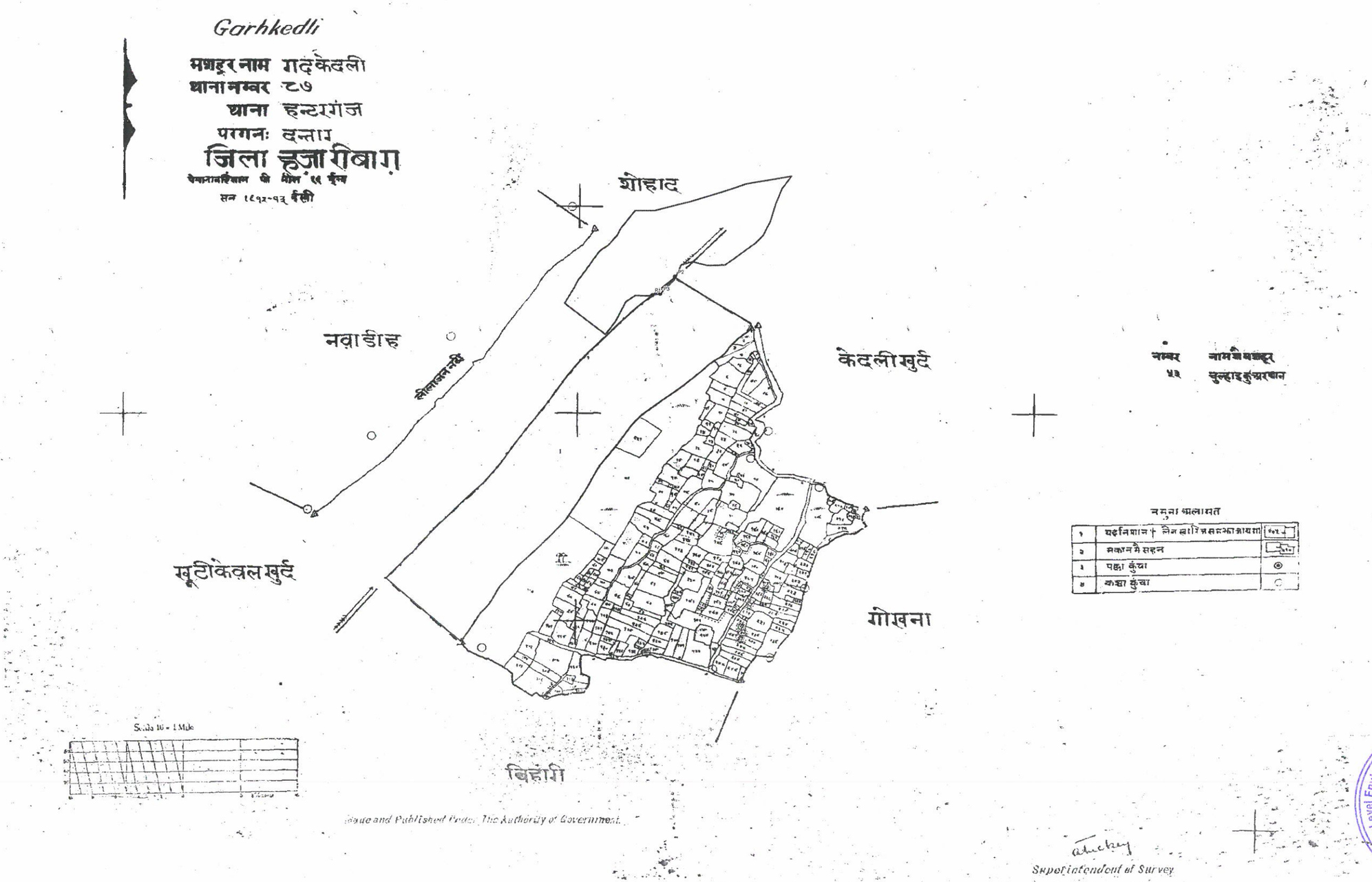
Proposed Area in Ha of 57_58- 1.46
Proposed Area in Ha of 59- 1.19

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	281201.2311	2687901.789	24° 17' 19.903" N	84° 50' 39.551" E
P1	280529.82	2687653.263	24° 17' 11.490" N	84° 50' 15.887" E
P2	281103.8832	2687875.267	24° 17' 18.992" N	84° 50' 36.115" E
P2	280480.6684	2687580.046	24° 17' 9.086" N	84° 50' 14.185" E
P3	280496.8071	2687580.991	24° 17' 9.125" N	84° 50' 14.757" E
P3	280405.8593	2687495.177	24° 17' 6.291" N	84° 50' 11.580" E
P4	280555.4	2687678.843	24° 17' 12.334" N	84° 50' 16.780" E
P4	280348.7385	2687477.089	24° 17' 5.674" N	84° 50' 9.565" E

State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_03, Block -Hantarganj, District - Chatra, JHARKHAND



Superintendent of Survey

Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE	VILLAGE_NA
P1	279177.5303	2704395.665	24°26' 14.785" N	84°49' 18.640" E	Garhkedli_87_00
P2	279217.5041	2704431.081	24°26' 15.956" N	84°49' 20.039" E	Garhkedli_87_00
P3	279191.5031	2704398.344	24°26' 14.879" N	84°49' 19.135" E	Garhkedli_87_00

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Garhkedli	87	1	1	River	31.6004	
				TOTAL AREA		31.6004	

Proposed Area in Ha of 03- 4.93

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_17A,19, Block -Hunterganj, District - Chatra, JHARKHAND



Ghanghri

मशहूर नाम घंघरी चादरनम्बर१

थाना नम्बर १४२

थाना हन्टरगंज

परगनः दन्तार

ज़िला हज़ारीबाग़

पैमानावहिसाब फी मील १८ इन्च

सन १९५२ ई३स्त्री

नमूना कलामत

१	यहनिशान + लैनखारिजजमाबाशेषमा	१०१
२	मकानसे सहन	८७३
३	पक्का कुवा	◉
४	कच्चा कुवा	○

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	276748.7142	2696229.643	24° 21' 48.219" N	84° 47' 57.044" E
P2	276786.6346	2696177.321	24° 21' 46.538" N	84° 47' 58.418" E
P3	276644.1825	2695857.4	24° 21' 36.070" N	84° 47' 53.546" E
P4	276607.4656	2695933.287	24° 21' 38.517" N	84° 47' 52.201" E
P5	276828.1258	2695317.752	24° 21' 18.632" N	84° 48' 0.373" E
P6	276921.7641	2695382.768	24° 21' 20.792" N	84° 48' 3.658" E
P7	276875.7663	2695011.423	24° 21' 8.703" N	84° 48' 2.235" E
P8	276833.1291	2695023.558	24° 21' 9.076" N	84° 48' 0.716" E

Proposed Area in Ha of 17A- 2.60

Proposed Area in Ha of 19- 7.77

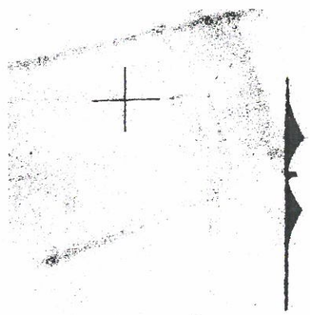
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Ghanghri	142	1	1	River	17.4032	
Hunterganj	Ghanghri	142	1	616	River	25.2695	
				TOTAL AREA		42.6727	

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★ Approved

Legend

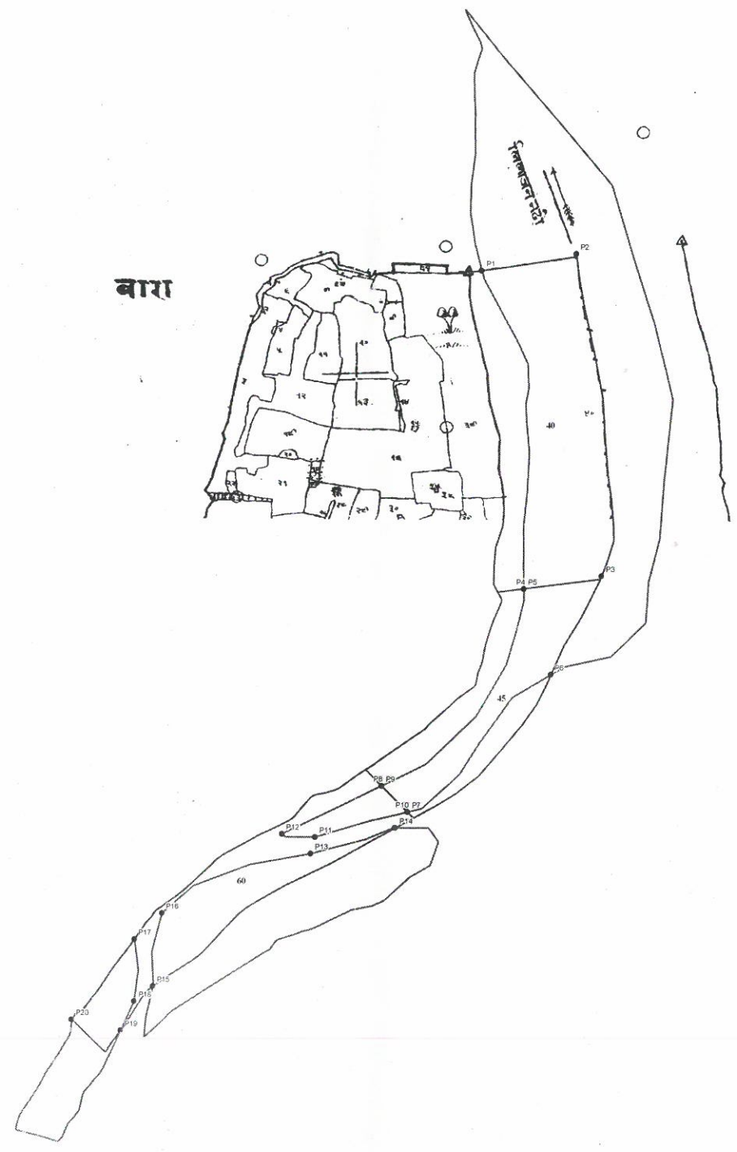
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_31,32,33, Block -Hunterganj, District - Chatra, JHARKHAND



Gobindpur

मशहूर नाम गोबिन्दपुर
थाना नम्बर १५२
थाना हन्टरगंज
परगनः दन्तार
जिला हज़ारीबाग़
पैमानाबर्तियान के लिए १८ इंच
सन १९१२–१३ई०



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	276396.6652	2693625.553	24° 20' 23.429" N	84° 47' 46.023" E
P2	276512.3931	2693646.437	24° 20' 24.167" N	84° 47' 50.115" E
P3	276542.7667	2693211.29	24° 20' 10.044" N	84° 47' 51.437" E
P4	276446.8899	2693194.875	24° 20' 9.462" N	84° 47' 48.046" E
P5	276446.8899	2693194.875	24° 20' 9.462" N	84° 47' 48.046" E
P6	276480.0078	2693078.928	24° 20' 5.712" N	84° 47' 49.286" E
P7	276303.3229	2692896.409	24° 19' 59.690" N	84° 47' 43.123" E
P8	276272.035	2692931.509	24° 20' 0.815" N	84° 47' 41.994" E
P10	276303.3229	2692896.409	24° 19' 59.690" N	84° 47' 43.123" E
P11	276190.7459	2692863.115	24° 19' 58.551" N	84° 47' 39.150" E
P12	276150.6429	2692868.456	24° 19' 58.703" N	84° 47' 37.725" E
P13	276185.5752	2692841.174	24° 19' 57.835" N	84° 47' 38.979" E
P14	276288.2256	2692874.894	24° 19' 58.984" N	84° 47' 42.600" E
P15	275989.7434	2692663.714	24° 19' 51.968" N	84° 47' 32.135" E
P16	276001.7319	2692762.536	24° 19' 55.185" N	84° 47' 32.504" E
P17	275967.4159	2692727.807	24° 19' 54.039" N	84° 47' 31.307" E
P18	275966.8477	2692643.494	24° 19' 51.300" N	84° 47' 31.334" E
P19	275949.527	2692604.113	24° 19' 50.011" N	84° 47' 30.742" E
P20	275889.4014	2692619.613	24° 19' 50.484" N	84° 47' 28.602" E
P9	276272.035	2692931.509	24° 20' 0.815" N	84° 47' 41.994" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Gobindpur	152	1	60	River	8.8479	
Hunterganj	Gobindpur	152	1	45	River	7.8612	
Hunterganj	Gobindpur	152	1	40	River	14.5643	
				TOTAL AREA		31.2734	

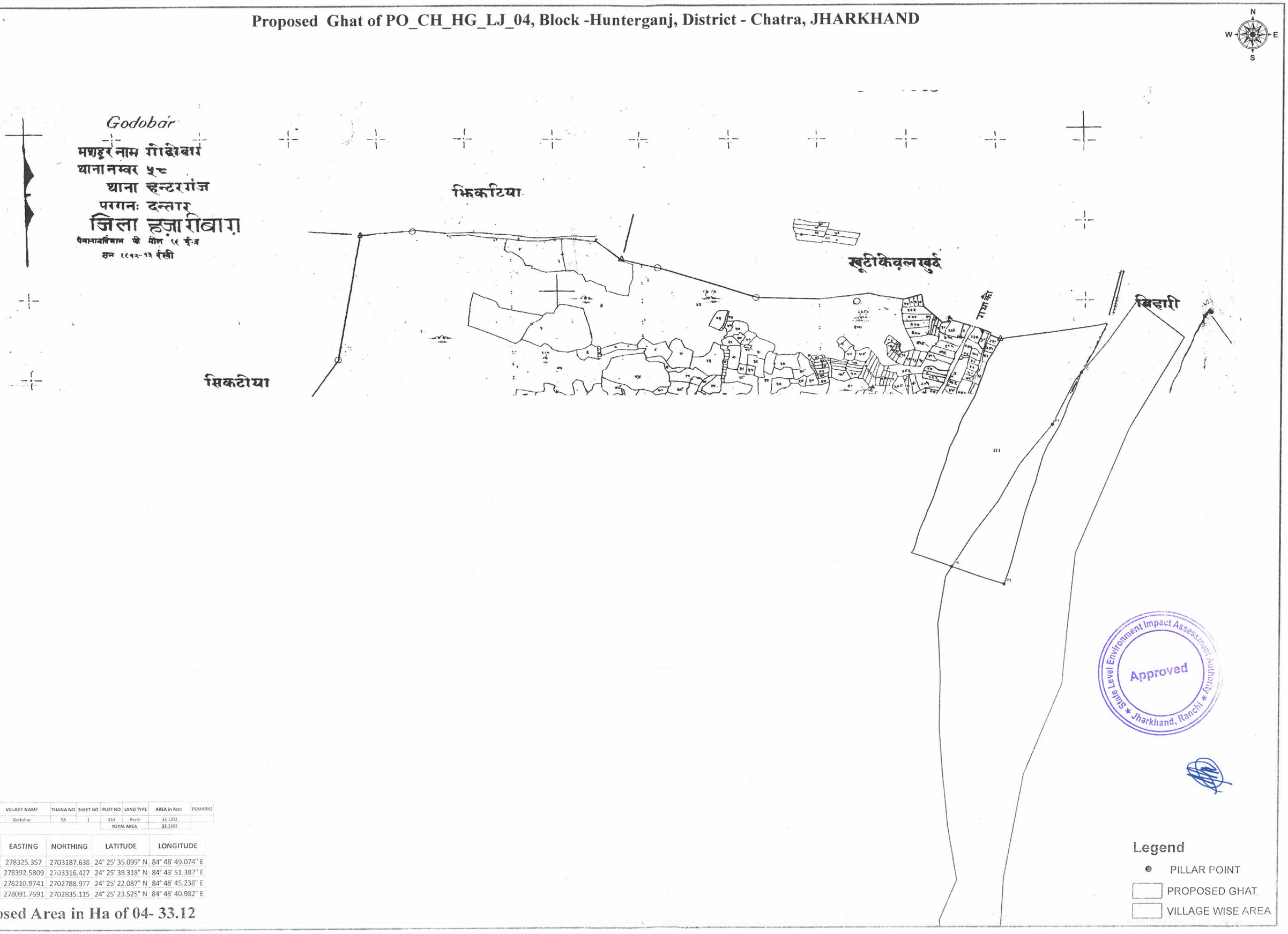
Proposed Area in Ha of 31- 14.07
Proposed Area in Ha of 32- 3.84
Proposed Area in Ha of 33- 1.39

State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_04, Block -Hunterganj, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Godobar	58	1	414	River	33.1202	
				TOTAL AREA		33.1202	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	278325.357	2703187.638	24° 25' 35.099" N	84° 48' 49.074" E
P2	278392.5809	2703316.427	24° 25' 39.318" N	84° 48' 51.387" E
P3	278210.9741	2702788.977	24° 25' 22.087" N	84° 48' 45.238" E
P4	278091.7691	2702835.115	24° 25' 23.525" N	84° 48' 40.982" E

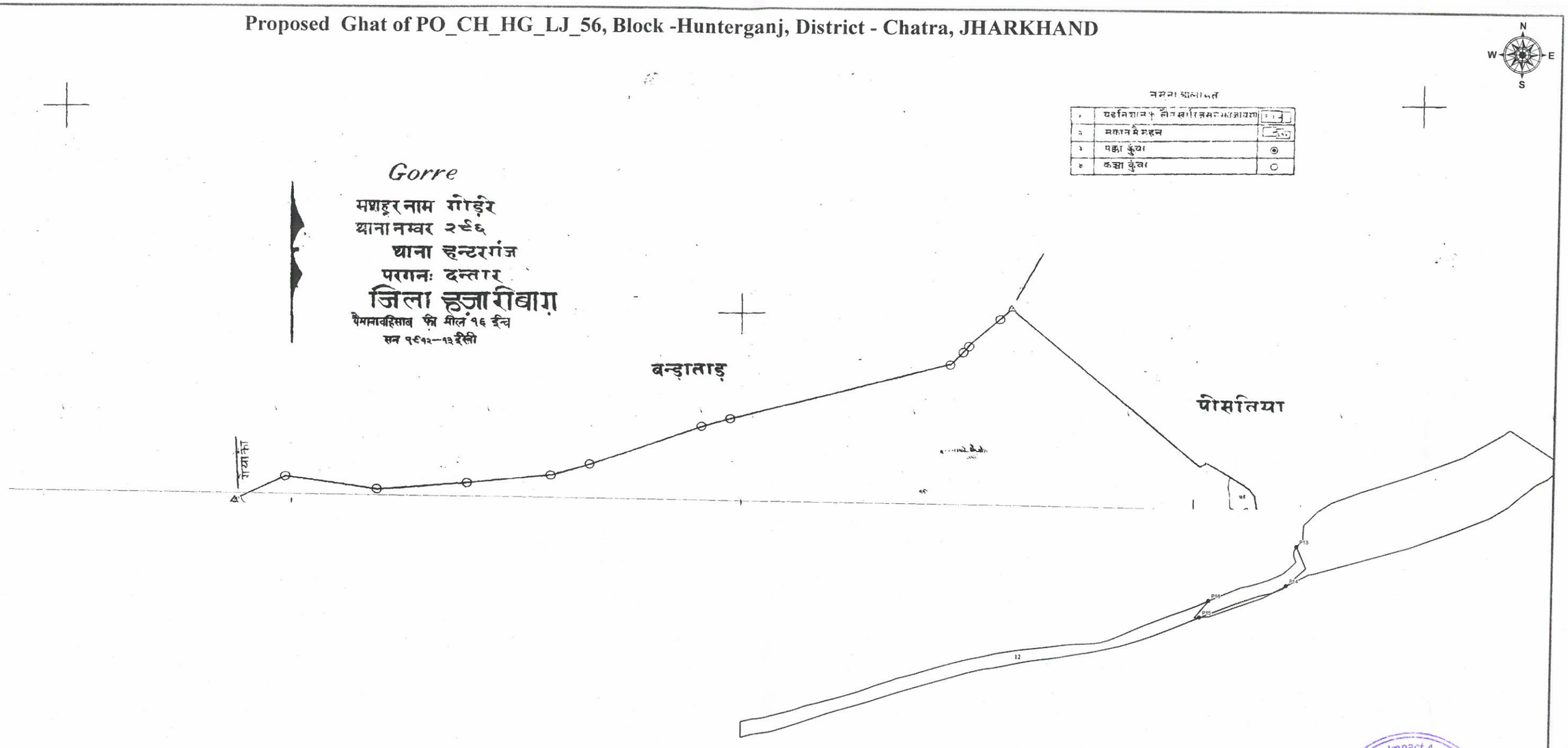
Proposed Area in Ha of 04- 33.12

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★ Approved

Legend

- PILLAR POINT
- PROPOSED GHAT.
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_56, Block -Hunterganj, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Gorre	296	1	12	River	6.5025	
				TOTAL AREA		6.5025	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P13	279402.0412	2686767.27	24° 16' 42.132" N	84° 49' 36.400" E
P14	279383.5683	2686690.521	24° 16' 39.629" N	84° 49' 35.787" E
P15	279228.0324	2686629.566	24° 16' 37.569" N	84° 49' 30.308" E
P16	279244.7123	2686662.091	24° 16' 38.635" N	84° 49' 30.881" E

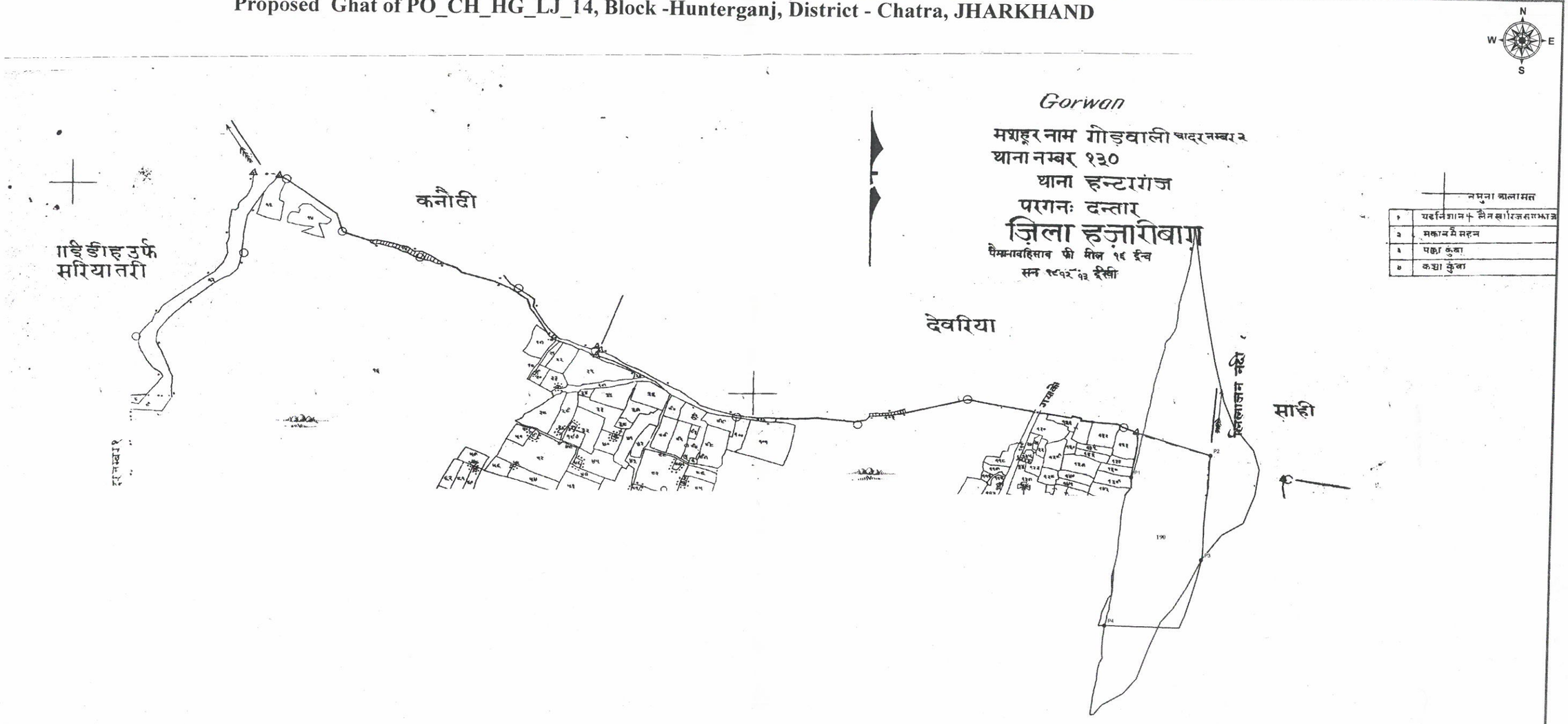
Proposed Area in Ha of 56- 6.43

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★ Approved

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_14, Block -Hunterganj, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	277908.0665	2698509.007	24° 23' 2.873" N	84° 48' 36.889" E
P2	278048.5971	2698551.548	24° 23' 4.327" N	84° 48' 41.850" E
P3	278032.8568	2698347.223	24° 22' 57.680" N	84° 48' 41.406" E
P4	277861.421	2698220.104	24° 22' 53.462" N	84° 48' 35.396" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Gorwan	130	2	190	River	12.7522	
				TOTAL AREA		12.7522	

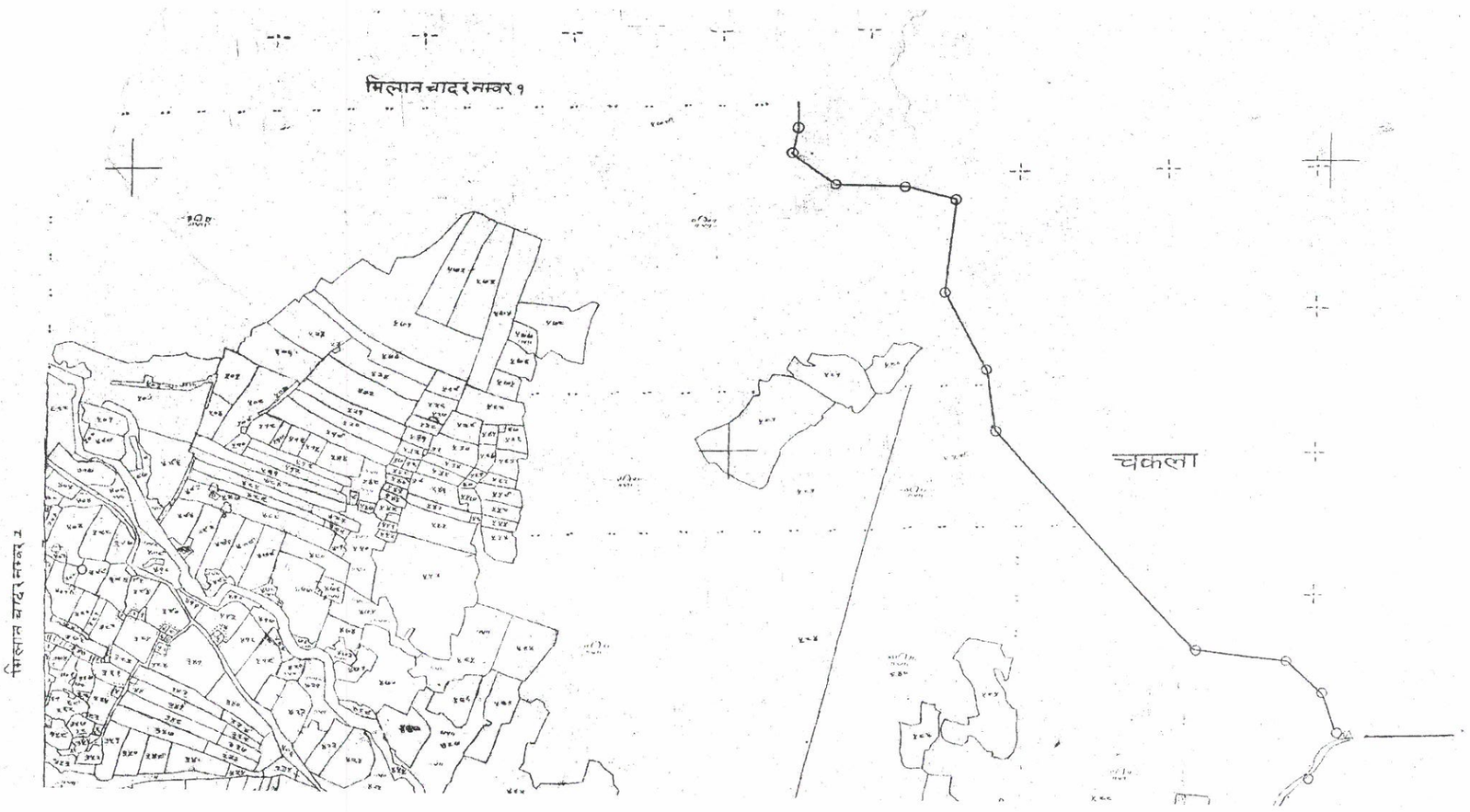
Proposed Area in Ha of 14- 10.67

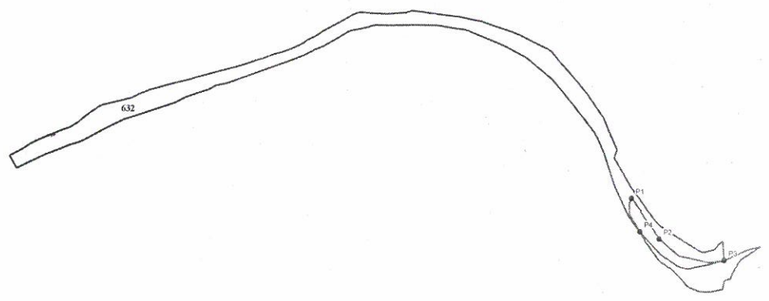
State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★
Approved

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_27, Block -Hunterganj, District - Chatra, JHARKHAND





State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★
Approved

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Hara	180	3	632	River	5.4421	
				TOTAL AREA		5.4421	

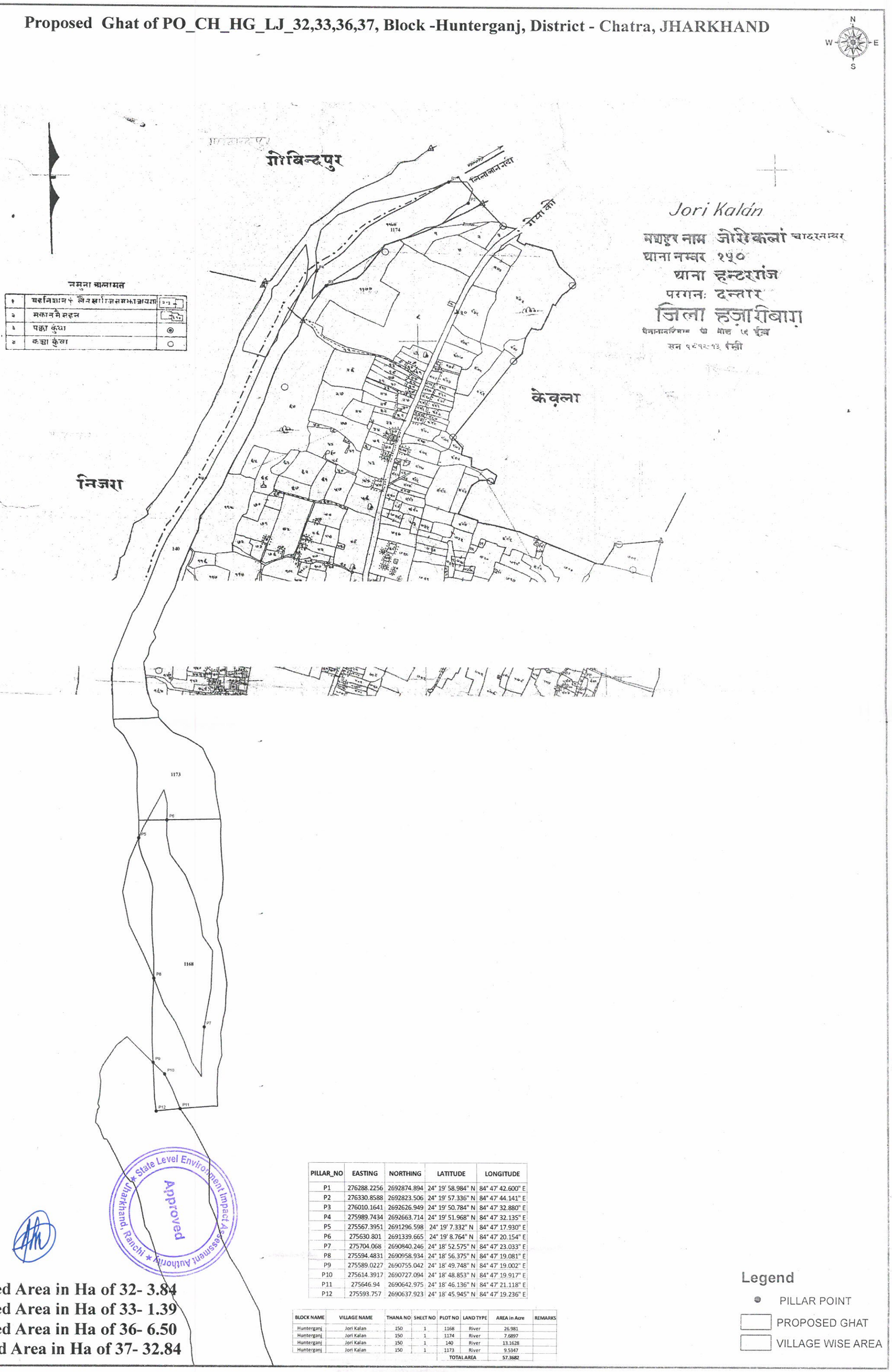
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	270361.2235	2692473.936	24° 19' 42.861" N	84° 44' 12.665" E
P2	270395.1826	2692419.157	24° 19' 41.100" N	84° 44' 13.901" E
P3	270475.4559	2692390.614	24° 19' 40.215" N	84° 44' 16.764" E
P4	270371.2678	2692429.341	24° 19' 41.418" N	84° 44' 13.047" E

Proposed Area in Ha of 27- 0.44

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_32,33,36,37, Block -Hunterganj, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	276288.2256	2692874.894	24° 19' 58.984" N	84° 47' 42.600" E
P2	276330.8588	2692823.506	24° 19' 57.336" N	84° 47' 44.141" E
P3	276010.1641	2692626.949	24° 19' 50.784" N	84° 47' 32.880" E
P4	275989.7434	2692663.714	24° 19' 51.968" N	84° 47' 32.135" E
P5	275567.3951	2691296.598	24° 19' 7.332" N	84° 47' 17.930" E
P6	275630.801	2691339.665	24° 19' 8.764" N	84° 47' 20.154" E
P7	275704.068	2690840.246	24° 18' 52.575" N	84° 47' 23.033" E
P8	275594.4831	2690958.934	24° 18' 56.375" N	84° 47' 19.081" E
P9	275589.0227	2690755.042	24° 18' 49.748" N	84° 47' 19.002" E
P10	275614.3917	2690727.094	24° 18' 48.853" N	84° 47' 19.917" E
P11	275646.94	2690642.975	24° 18' 46.136" N	84° 47' 21.118" E
P12	275593.757	2690637.923	24° 18' 45.945" N	84° 47' 19.236" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Jori Kalan	150	1	1168	River	26.981	
Hunterganj	Jori Kalan	150	1	1174	River	7.6897	
Hunterganj	Jori Kalan	150	1	140	River	13.1628	
Hunterganj	Jori Kalan	150	1	1173	River	9.5347	
				TOTAL AREA		57.3682	

State Level Environment Impact Assessment Authority * Jharkhand, Ranchi * Approved

Proposed Area in Ha of 32- 3.84
Proposed Area in Ha of 33- 1.39
Proposed Area in Ha of 36- 6.50
Proposed Area in Ha of 37- 32.84

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_37, Block -Hunterganj, District - Chatra, JHARKHAND

N
W E
S

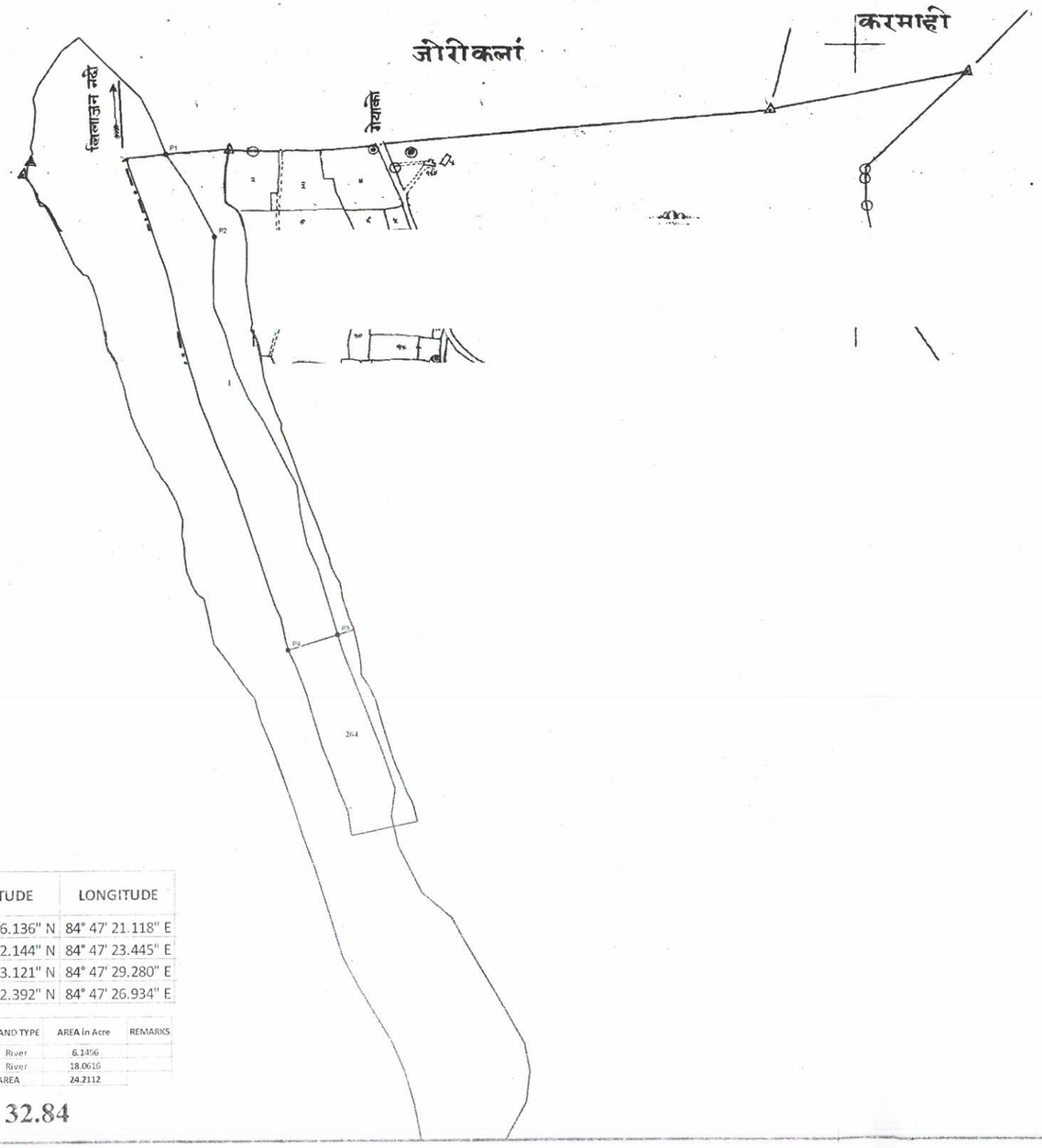
नमूना कलामत

१	यहनिशान ५ लैनखांरजसतमआयाम	०-१
२	मकानमैसहन	
३	पक्का कुंवा	◉
४	कच्चा कुंवा	○

नम्बर	नामी मशहूर
५८	आबादी ख़ास
२६५	डांक बंगला

JoriKhurd

मशहूर नाम जोरीखुर्द चाहरनम्बर१
थाना नम्बर २९०
थाना हन्टरगंज
परगनः दन्तार
ज़िला हज़ारीबाग़
पैमानाबंहिसाब फ़ी मील १६ इंच
सन १९५२–१३ इस्वी



Index To Sheets



Made and Published Under The Authority of Government.

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	275646.94	2690642.975	24° 18' 46.136" N	84° 47' 21.118" E
P2	275710.5956	2690519.083	24° 18' 42.144" N	84° 47' 23.445" E
P3	275865.8341	2689931.146	24° 18' 23.121" N	84° 47' 29.280" E
P4	275799.3348	2689909.755	24° 18' 22.392" N	84° 47' 26.934" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Jori Khurd	290	1	264	River	6.1496	
Hunterganj	Jori Khurd	290	1	1	River	18.0616	
				TOTAL AREA		24.2112	

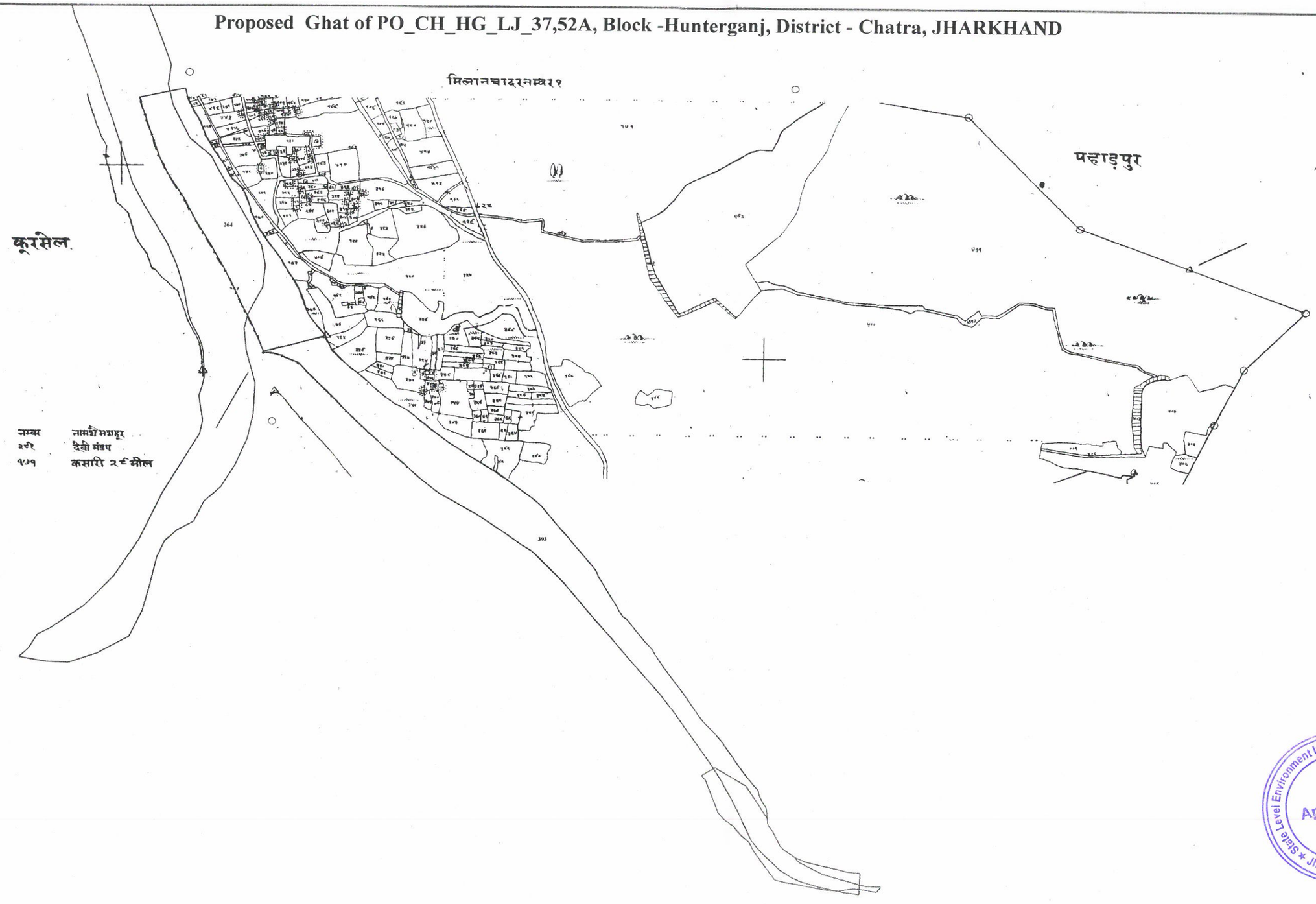
Proposed Area in Ha of 37- 32.84

State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_37,52A, Block -Huntergan j, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P5	275799.3348	2689909.755	24° 18' 22.392" N	84° 47' 26.934" E
P6	275865.8341	2689931.146	24° 18' 23.121" N	84° 47' 29.280" E
P7	275939.5473	2689703.649	24° 18' 15.768" N	84° 47' 32.021" E
P8	275936.8541	2689647.734	24° 18' 13.950" N	84° 47' 31.957" E

Proposed Area in Ha of 37- 32.84
Proposed Area in Ha of 52A- 1.91

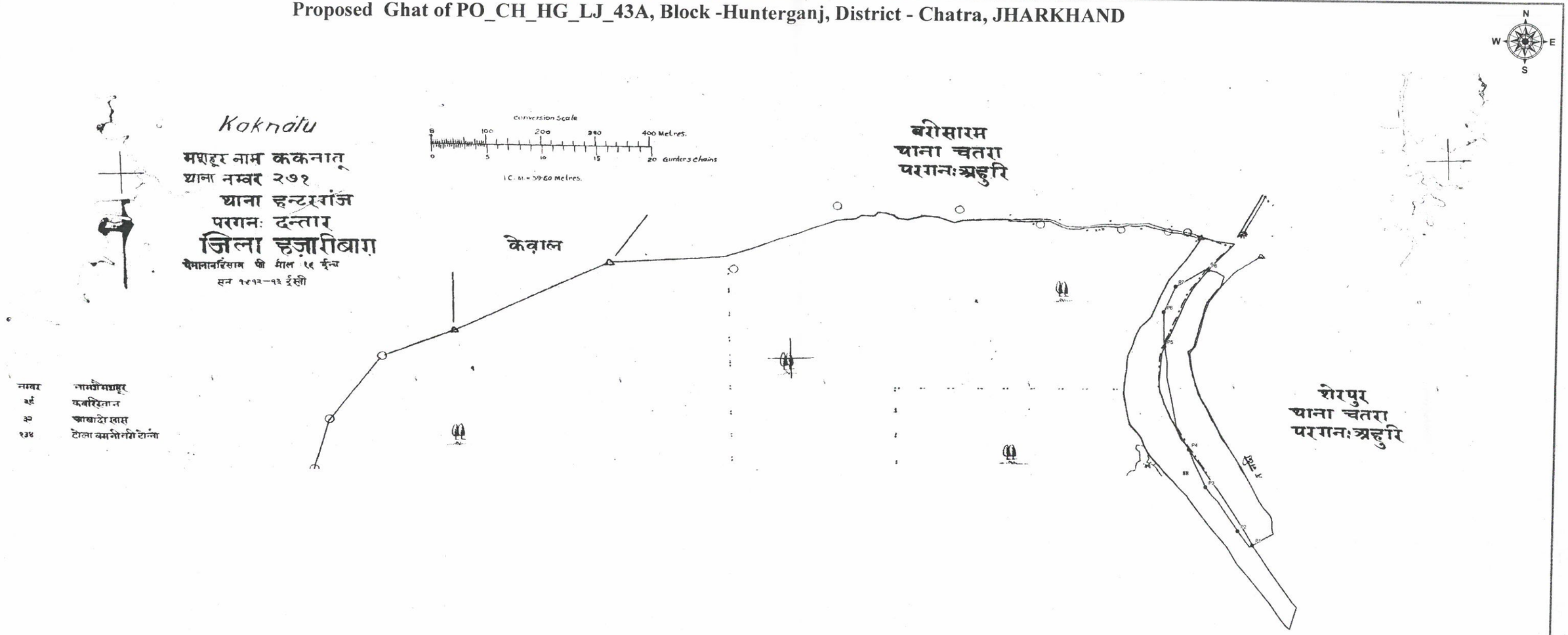
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Huntergan j	Jori Khurd	290	2	333	River	23.861	
Huntergan j	Jori Khurd	290	2	264	River	14.6282	
					TOTAL AREA	38.4892	

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★
Approved

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_43A, Block -Hunterganj, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	274992.9493	2685299.545	24° 15' 52.187" N	84° 47' 0.948" E
P2	274965.7646	2685328.732	24° 15' 53.121" N	84° 46' 59.968" E
P3	274905.881	2685419.264	24° 15' 56.032" N	84° 46' 57.795" E
P4	274874.7277	2685496.171	24° 15' 58.514" N	84° 46' 56.647" E
P5	274829.2622	2685708.548	24° 16' 5.391" N	84° 46' 54.916" E
P6	274827.9201	2685779.319	24° 16' 7.690" N	84° 46' 54.828" E
P7	274849.4011	2685832.183	24° 16' 9.419" N	84° 46' 55.560" E
P8	274910.1524	2685865.546	24° 16' 10.534" N	84° 46' 57.694" E

Proposed Area in Ha of 43A- 3.79

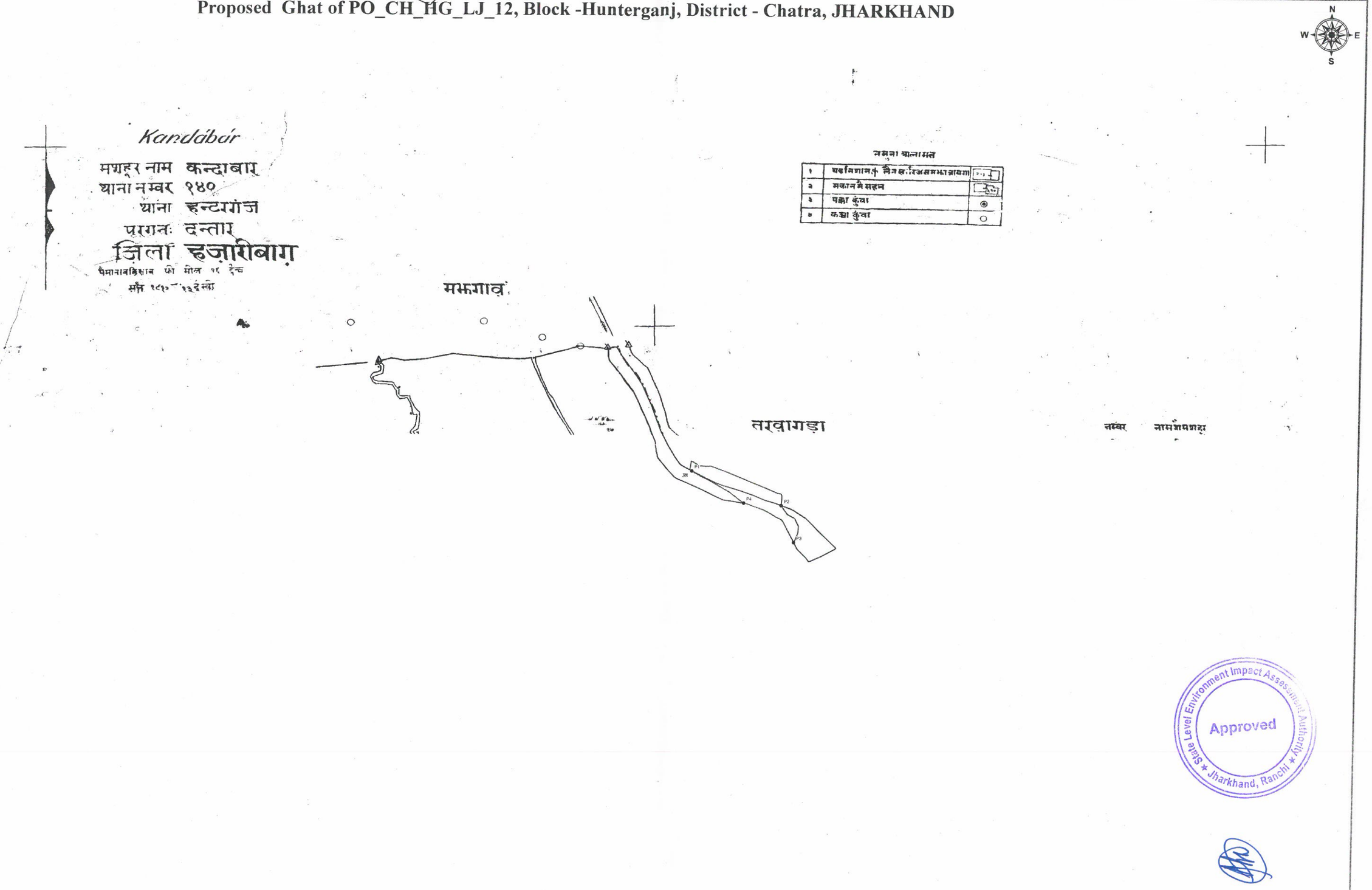
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Kaknatu	271	1	88	River	11.8338	
				TOTAL AREA		11.8338	

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★
Approved

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_12, Block -Hunterganj, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Kandabar	140	1	38	River	4.7923	
				TOTAL AREA		4.7923	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	280012.5664	2697172.221	24° 22' 20.513" N	84° 49' 52.287" E
P2	280193.2612	2697094.154	24° 22' 18.068" N	84° 49' 58.740" E
P3	280217.5345	2697012.373	24° 22' 15.424" N	84° 49' 59.646" E
P4	280116.5711	2697100.135	24° 22' 18.224" N	84° 49' 56.016" E

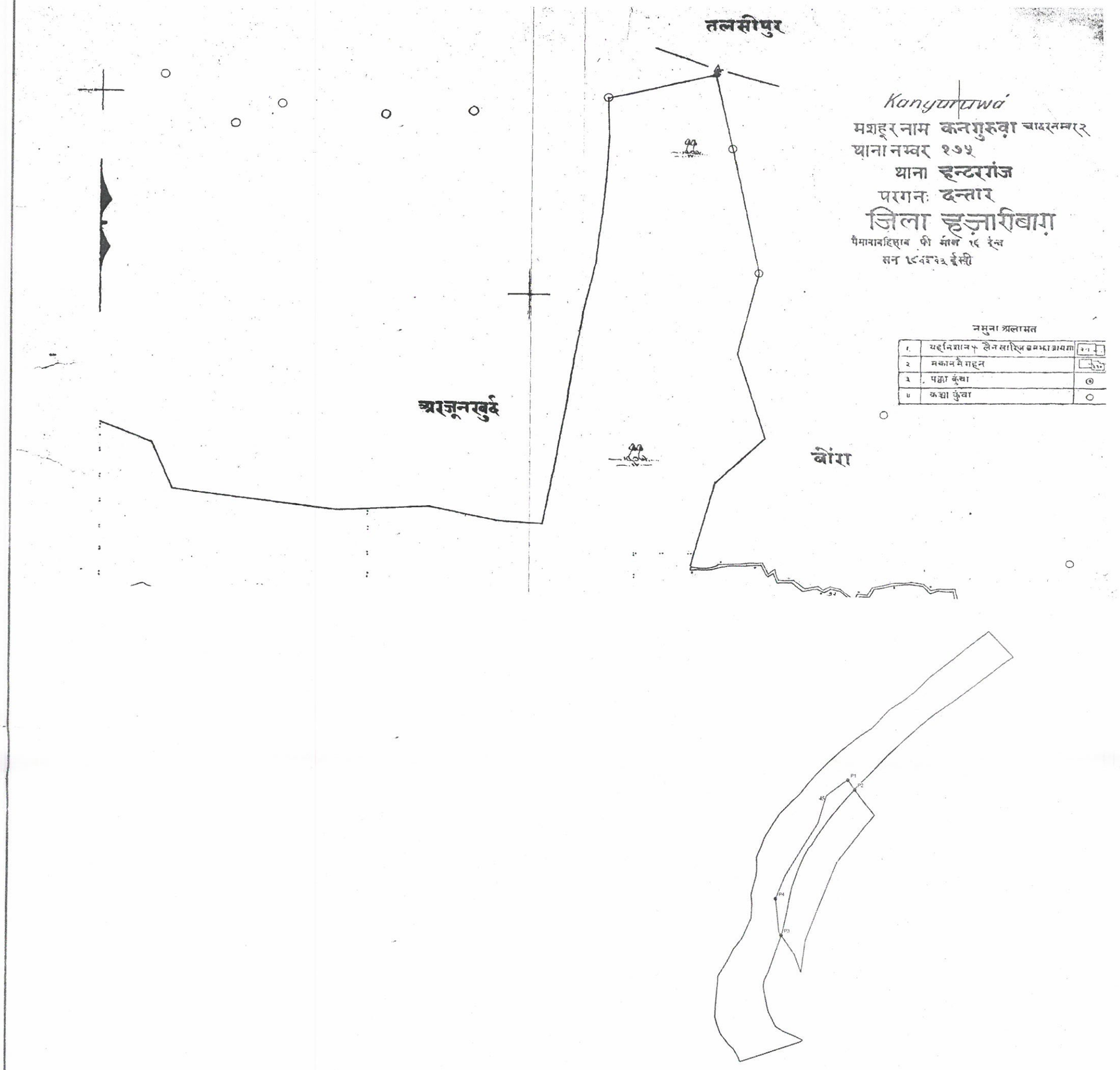
Proposed Area in Ha of 12- 0.91

State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_17A Block -Hunterganj, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	276735.405	2696249.438	24° 21' 48.855" N	84° 47' 56.561" E
P2	276748.7142	2696229.643	24° 21' 48.219" N	84° 47' 57.044" E
P3	276607.4656	2695933.287	24° 21' 38.517" N	84° 47' 52.201" E
P4	276597.9166	2696007.141	24° 21' 40.912" N	84° 47' 51.821" E

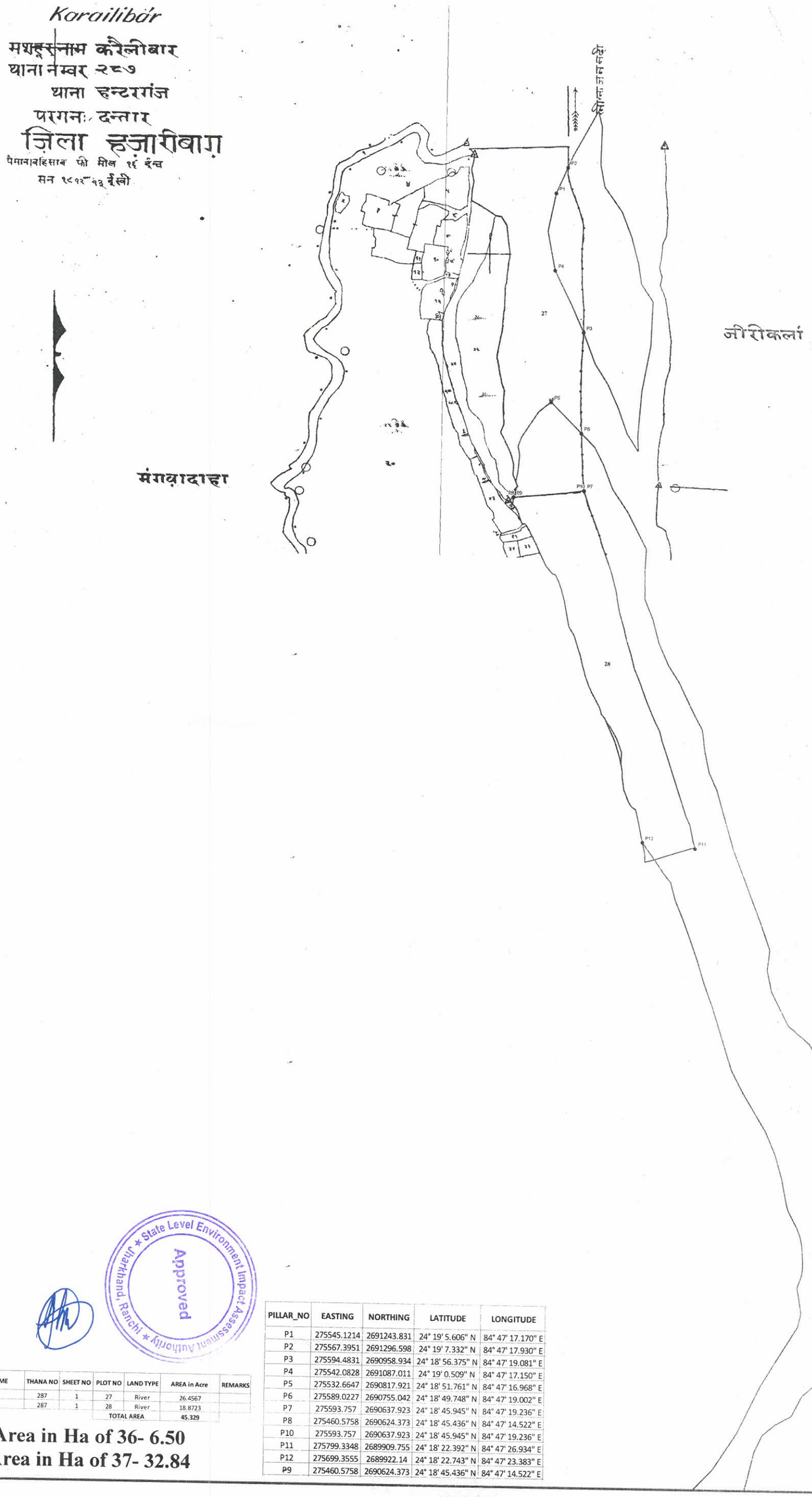
Proposed Area in Ha of 17A- 2.60

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Kanguruwa	175	2	45	River	19.2827	
				TOTAL AREA		19.2827	

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★
Approved

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_36,37 Block -Hunterganj, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Karailibar	287	1	27	River	26.4567	
Hunterganj	Karailibar	287	1	28	River	18.8723	
				TOTAL AREA		45.329	

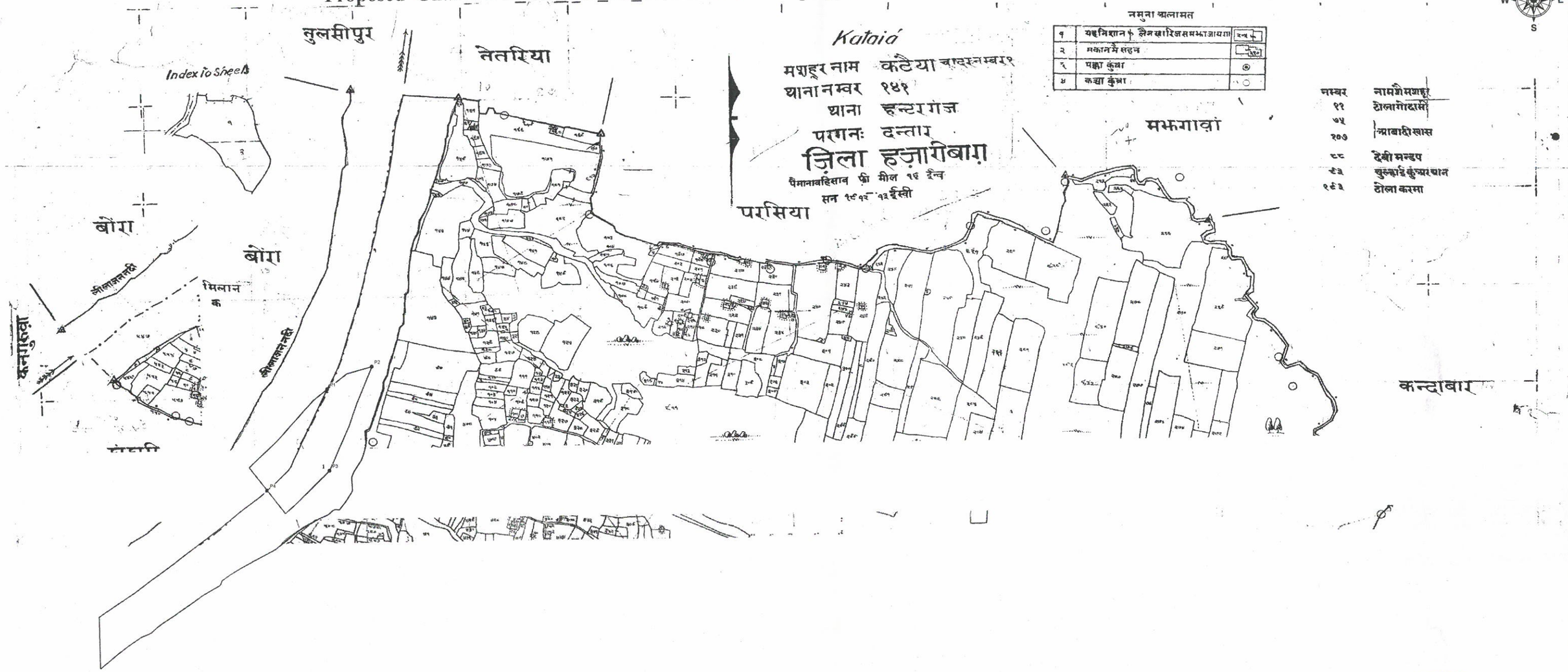
Proposed Area in Ha of 36- 6.50
Proposed Area in Ha of 37- 32.84

State Level Environment Impact Assessment Authority * Jharkhand, Ranchi *
Approved

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	275545.1214	2691243.831	24° 19' 5.606" N	84° 47' 17.170" E
P2	275567.3951	2691296.598	24° 19' 7.332" N	84° 47' 17.930" E
P3	275594.4831	2690958.934	24° 18' 56.375" N	84° 47' 19.081" E
P4	275542.0828	2691087.011	24° 19' 0.509" N	84° 47' 17.150" E
P5	275532.6647	2690817.921	24° 18' 51.761" N	84° 47' 16.968" E
P6	275589.0227	2690755.042	24° 18' 49.748" N	84° 47' 19.002" E
P7	275593.757	2690637.923	24° 18' 45.945" N	84° 47' 19.236" E
P8	275460.5758	2690624.373	24° 18' 45.436" N	84° 47' 14.522" E
P10	275593.757	2690637.923	24° 18' 45.945" N	84° 47' 19.236" E
P11	275799.3348	2689909.755	24° 18' 22.392" N	84° 47' 26.934" E
P12	275699.3555	2689922.14	24° 18' 22.743" N	84° 47' 23.383" E
P9	275460.5758	2690624.373	24° 18' 45.436" N	84° 47' 14.522" E

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_17, Block -Hunterganj, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	277714.6909	2697117.148	24° 22' 17.551" N	84° 48' 30.809" E
P2	277799.747	2697162.081	24° 22' 19.054" N	84° 48' 33.801" E
P3	277715.1126	2696947.555	24° 22' 12.041" N	84° 48' 30.919" E
P4	277594.8573	2696910.006	24° 22' 10.759" N	84° 48' 26.674" E

Proposed Area in Ha of 17- 2.82

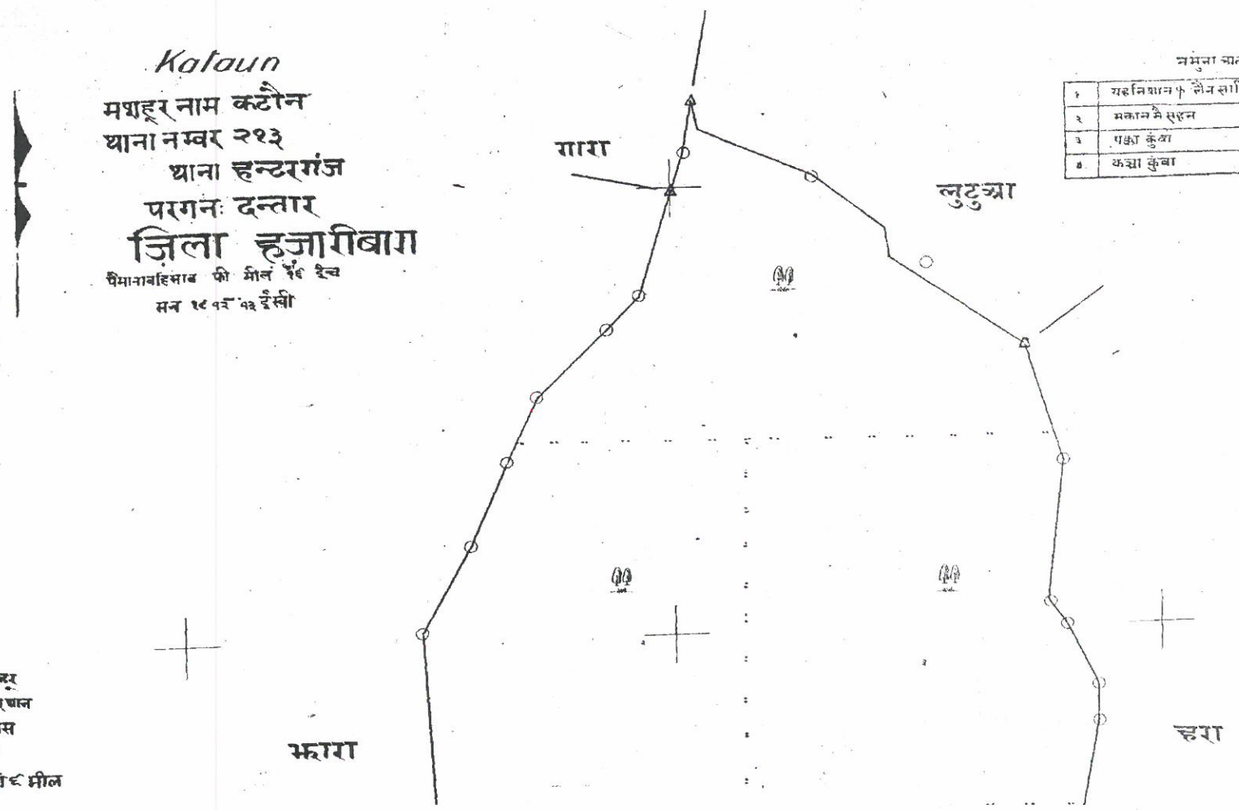
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Kataia	141	1	1	River	31.6632	
				TOTAL AREA		31.6632	

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★ Approved

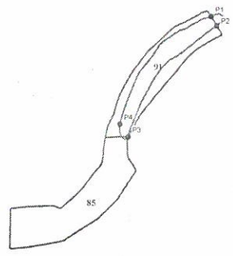
Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_29 Block -Hunterganj, District - Chatra, JHARKHAND









PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	267731.3742	2692464.292	24° 19' 41.149" N	84° 42' 39.425" E
P2	267738.2893	2692451.904	24° 19' 40.750" N	84° 42' 39.677" E
P3	267625.1892	2692306.495	24° 19' 35.966" N	84° 42' 35.752" E
P4	267615.1623	2692323.327	24° 19' 36.507" N	84° 42' 35.387" E

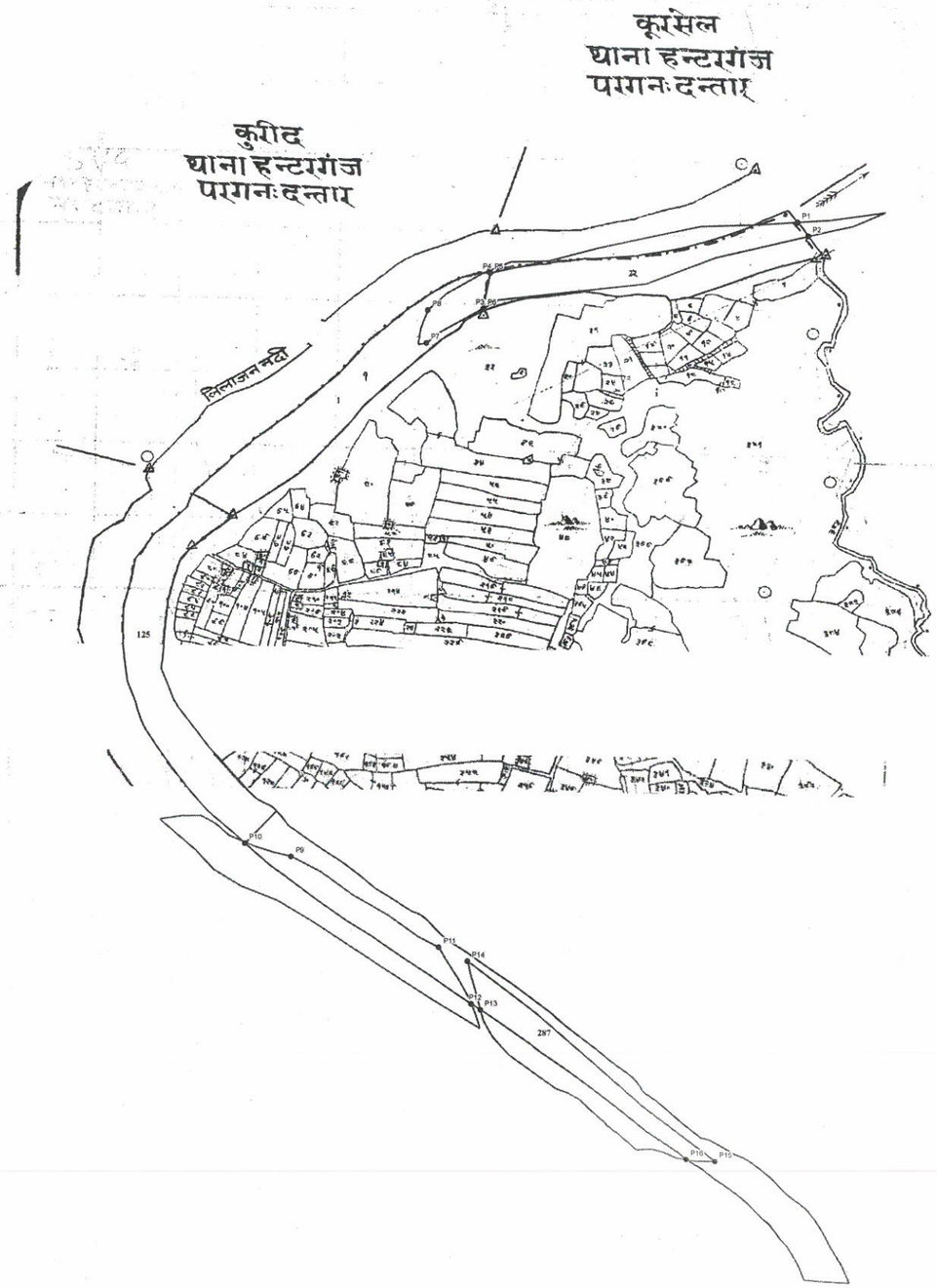
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Kataun	213	1	91	River	1.8729	
Hunterganj	Kataun	213	1	85	River	2.2068	
				TOTAL AREA		4.0797	

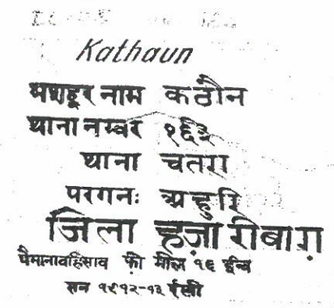
Proposed Area in Ha of 29- 0.39

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_38,40,41, Block -Chatra, District - Chatra, JHARKHAND





PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	275670.3725	2688423.727	24° 17' 34.044" N	84° 47' 23.199" E
P2	275683.8749	2688404.536	24° 17' 33.427" N	84° 47' 23.688" E
P3	275276.8882	2688304.732	24° 17' 29.974" N	84° 47' 9.318" E
P4	275285.4769	2688353.881	24° 17' 31.576" N	84° 47' 9.594" E
P5	275285.4769	2688353.881	24° 17' 31.576" N	84° 47' 9.594" E
P6	275276.8882	2688304.732	24° 17' 29.974" N	84° 47' 9.318" E
P7	275206.6588	2688257.13	24° 17' 28.391" N	84° 47' 6.855" E
P8	275208.3518	2688303.082	24° 17' 29.885" N	84° 47' 6.889" E
P9	275037.5643	2687547.007	24° 17' 5.232" N	84° 47' 1.262" E
P10	274977.4454	2687567.932	24° 17' 5.880" N	84° 46' 59.119" E
P11	275225.3908	2687421.816	24° 17' 1.261" N	84° 47' 7.990" E
P12	275266.0802	2687343.296	24° 16' 58.731" N	84° 47' 9.477" E
P13	275277.3112	2687335.392	24° 16' 58.480" N	84° 47' 9.879" E
P14	275261.0442	2687402.009	24° 17' 0.636" N	84° 47' 9.265" E
P15	275573.2769	2687125.101	24° 16' 51.800" N	84° 47' 20.488" E
P16	275537.1093	2687127.695	24° 16' 51.866" N	84° 47' 19.205" E

Proposed Area in Ha of 38- 2.40
Proposed Area in Ha of 40- 2.50
Proposed Area in Ha of 41- 1.86

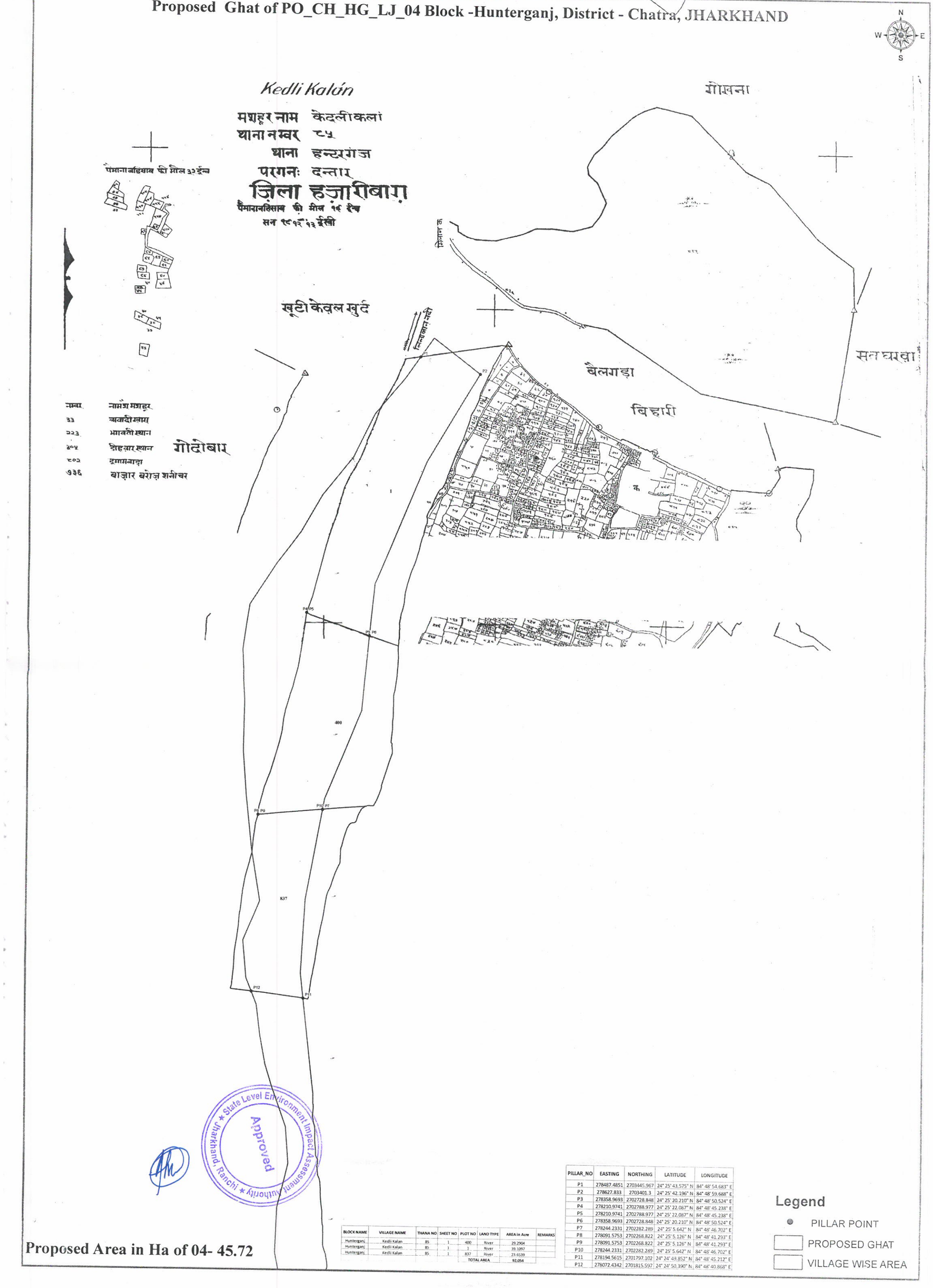
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Chatra	Kathaun	163	1	287	River	11.789	
Chatra	Kathaun	163	1	2	River	5.7782	
Chatra	Kathaun	163	1	1	River	6.9017	
Chatra	Kathaun	163	1	125	River	6.6857	
				TOTAL AREA		31.1546	

State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_04 Block -Hunterganj, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	278487.4851	2703445.967	24° 25' 43.575" N	84° 48' 54.683" E
P2	278627.833	2703401.3	24° 25' 42.196" N	84° 48' 59.688" E
P3	278358.9693	2702728.848	24° 25' 20.210" N	84° 48' 50.524" E
P4	278210.9741	2702788.977	24° 25' 22.087" N	84° 48' 45.238" E
P5	278210.9741	2702788.977	24° 25' 22.087" N	84° 48' 45.238" E
P6	278358.9693	2702728.848	24° 25' 20.210" N	84° 48' 50.524" E
P7	278244.2331	2702282.289	24° 25' 5.642" N	84° 48' 46.702" E
P8	278091.5753	2702268.822	24° 25' 5.126" N	84° 48' 41.293" E
P9	278091.5753	2702268.822	24° 25' 5.126" N	84° 48' 41.293" E
P10	278244.2331	2702282.289	24° 25' 5.642" N	84° 48' 46.702" E
P11	278194.5615	2701797.102	24° 24' 49.852" N	84° 48' 45.212" E
P12	278072.4342	2701815.597	24° 24' 50.390" N	84° 48' 40.868" E

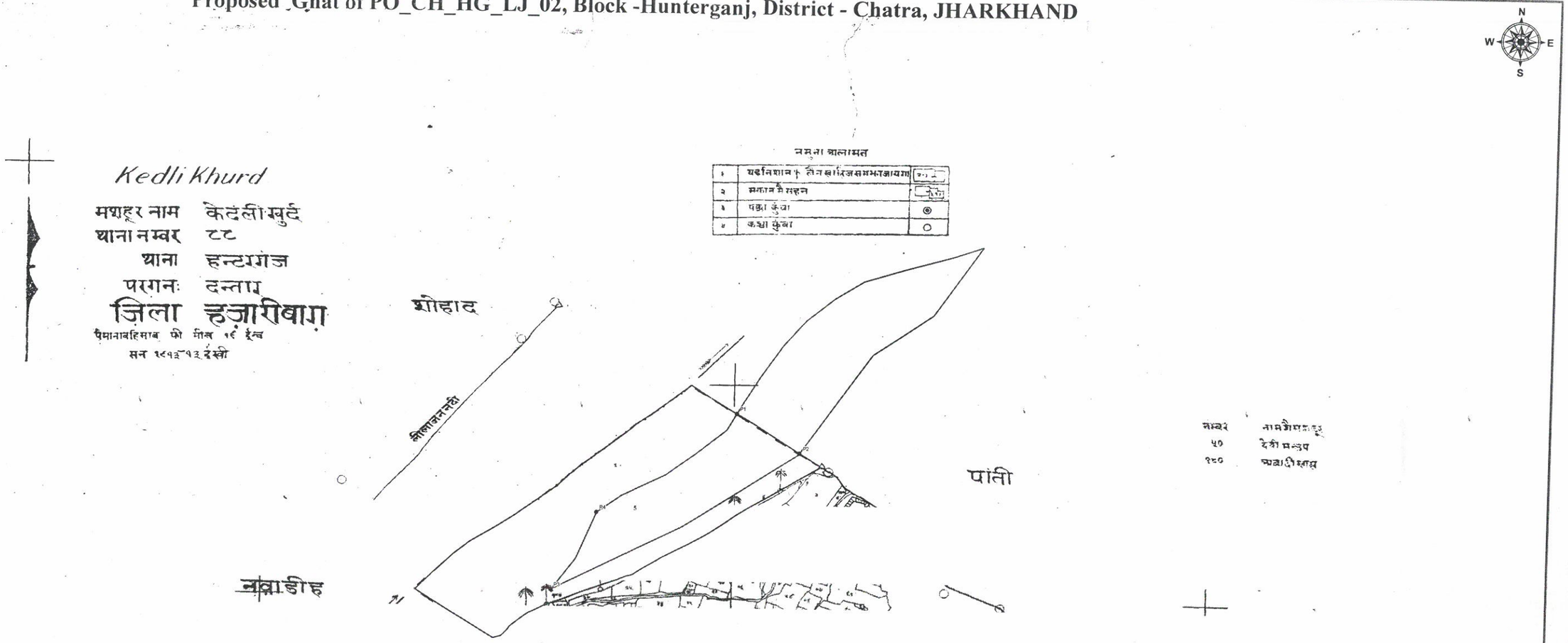
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Kedli Kalan	85	1	400	River	29.2904	
Hunterganj	Kedli Kalan	85	1	1	River	39.1097	
Hunterganj	Kedli Kalan	85	1	837	River	23.6539	
				TOTAL AREA		92.054	

Proposed Area in Ha of 04- 45.72

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_02, Block -Hunterganj, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	279770.1791	2704761.417	24° 26' 26.971" N	84° 49' 39.469" E
P2	279879.405	2704685.909	24° 26' 24.573" N	84° 49' 43.388" E
P3	279449.4128	2704428.876	24° 26' 16.003" N	84° 49' 28.271" E
P4	279528.13	2704574.869	24° 26' 20.786" N	84° 49' 30.983" E

Proposed Area in Ha of 02- 9.56

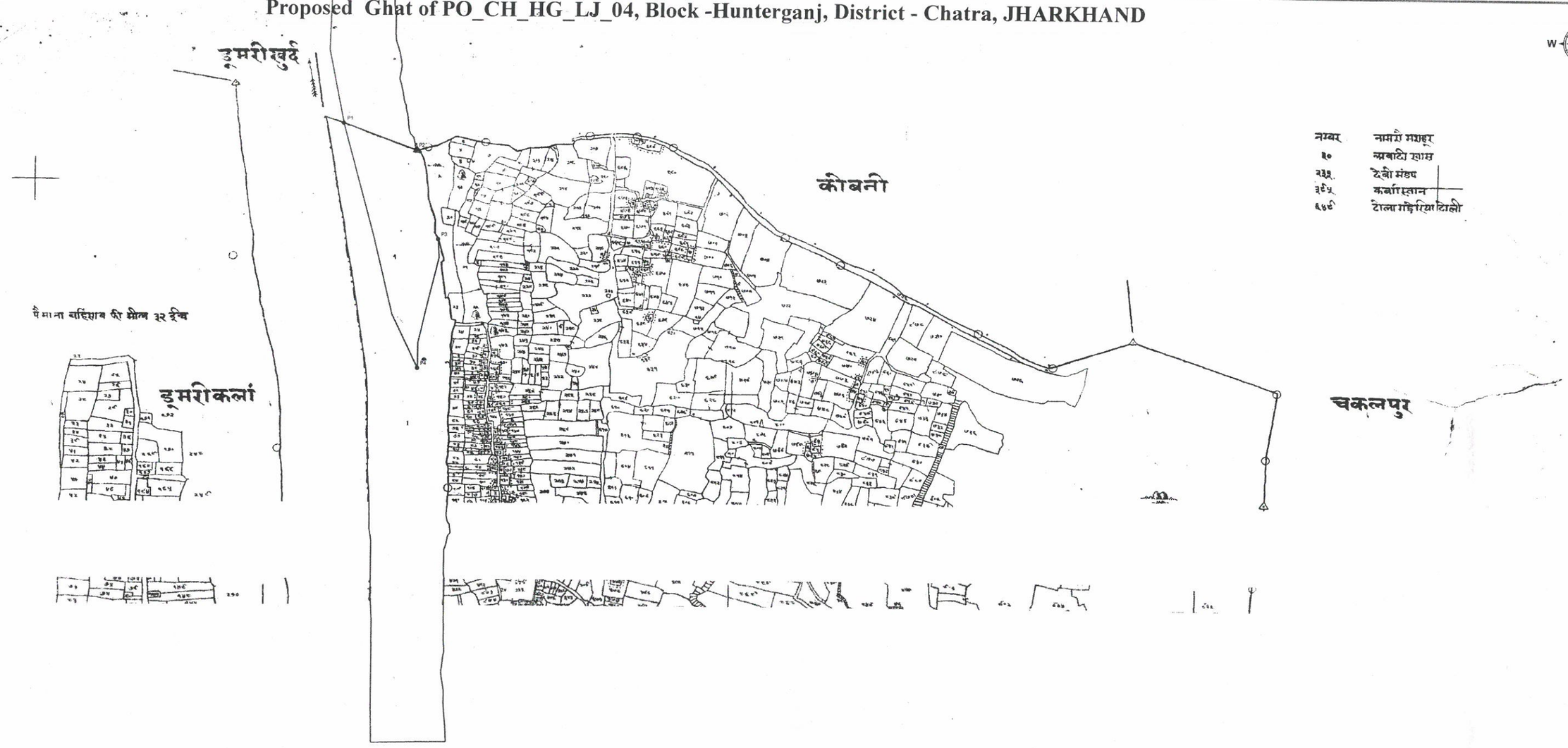
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Kedli Khurd	88	1	5	River	32.8214	
				TOTAL AREA		32.8214	

State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_04, Block -Hunterganj, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	278147.2438	2701000.934	24° 24' 23.960" N	84° 48' 43.979" E
P2	278271.1928	2700948.063	24° 24' 22.306" N	84° 48' 48.406" E
P3	278309.764	2700777.97	24° 24' 16.799" N	84° 48' 49.870" E
P4	278271.8307	2700531.93	24° 24' 8.785" N	84° 48' 48.662" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Kobnd	123	1	1	River	41.0737	
				TOTAL AREA		41.0737	

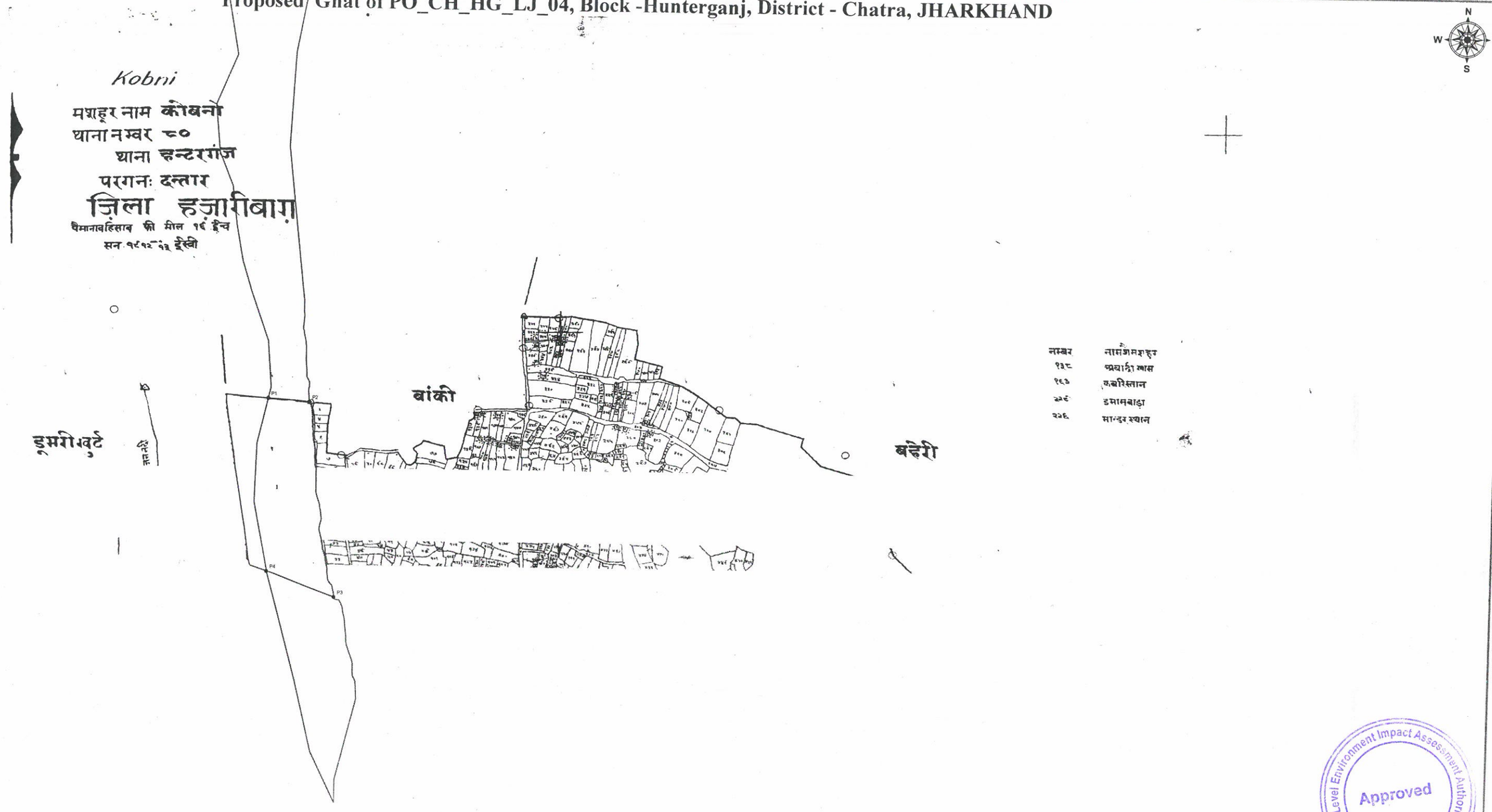
Proposed Area in Ha of 04- 45.72

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★
Approved

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_04, Block -Hunterganj, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Kobni	80	1	1	River	13.3714	
				TOTAL AREA		13.3714	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	278150.4494	2701350.967	24° 24' 35.334" N	84° 48' 43.896" E
P2	278225.7291	2701343.396	24° 24' 35.127" N	84° 48' 46.572" E
P3	278271.1928	2700948.063	24° 24' 22.306" N	84° 48' 48.406" E
P4	278147.2438	2701000.934	24° 24' 23.960" N	84° 48' 43.979" E

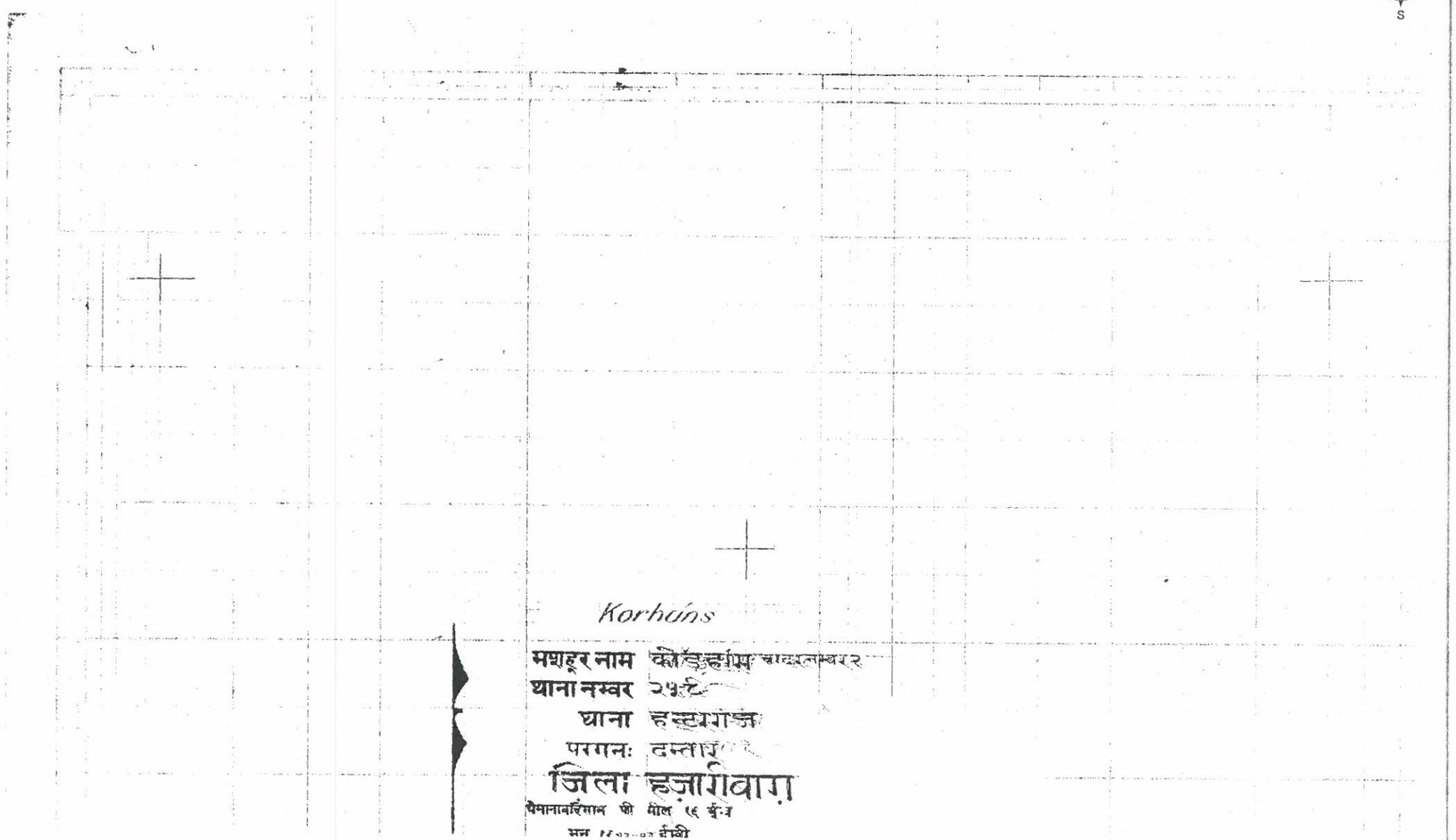
Proposed Area in Ha of 04- 45.72

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★ Approved

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_47 Block -Hunterganj, District - Chatra, JHARKHAND





BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Korhans	259	2	379	River	5.9253	
				TOTAL AREA		5.9253	

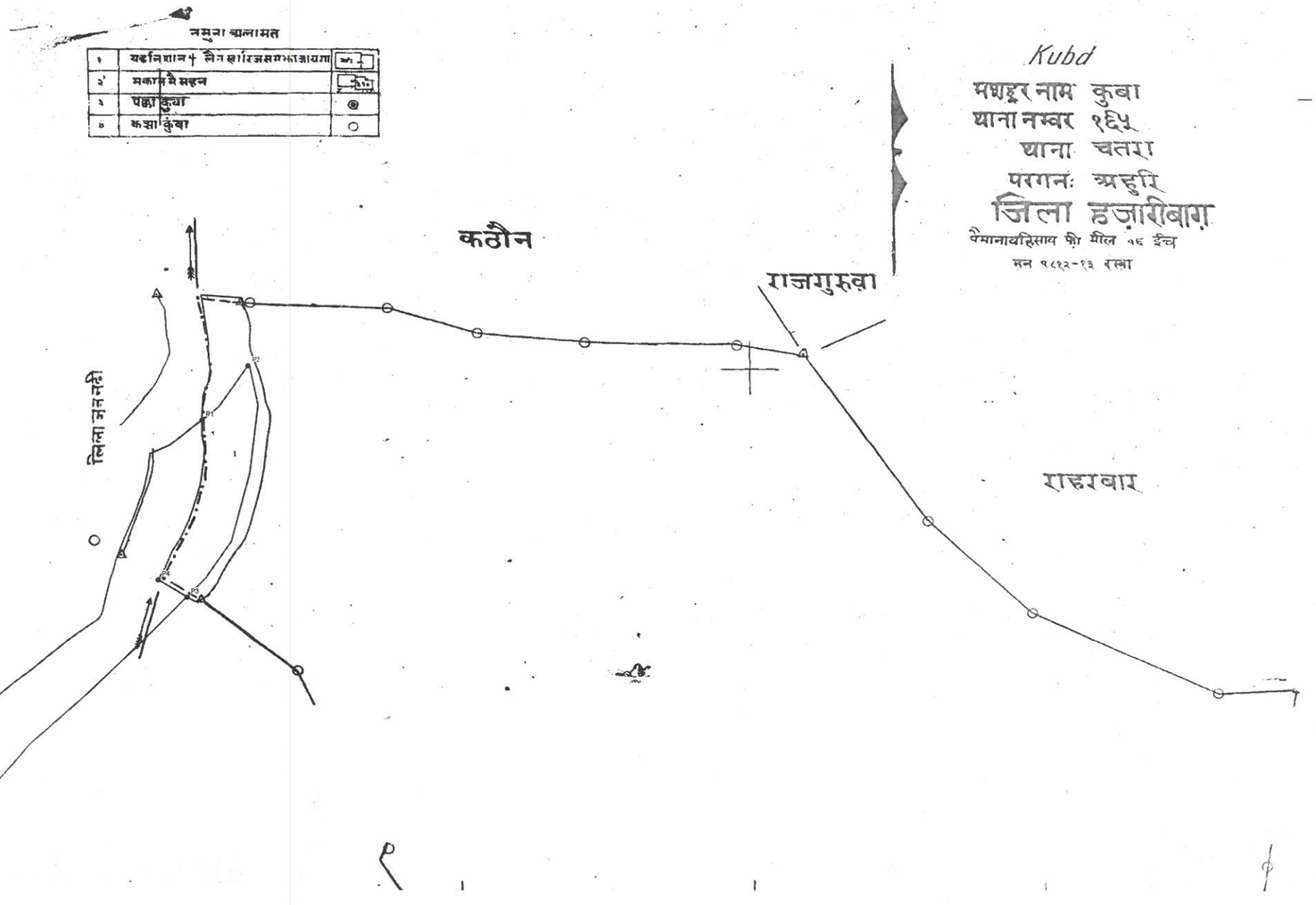
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	273331.1445	2678479.854	24° 12' 9.750" N	84° 46' 5.919" E
P2	273308.5303	2678447.642	24° 12' 8.692" N	84° 46' 5.136" E
P3	273026.3089	2678490.339	24° 12' 9.933" N	84° 45' 55.115" E
P4	272937.7173	2678526.091	24° 12' 11.048" N	84° 45' 51.956" E

Proposed Area in Ha of 47- 0.88

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_43 Block -Chatra, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Chatra	Kubd	165	1	1	River	6.5915	
				TOTAL AREA		8.5916	

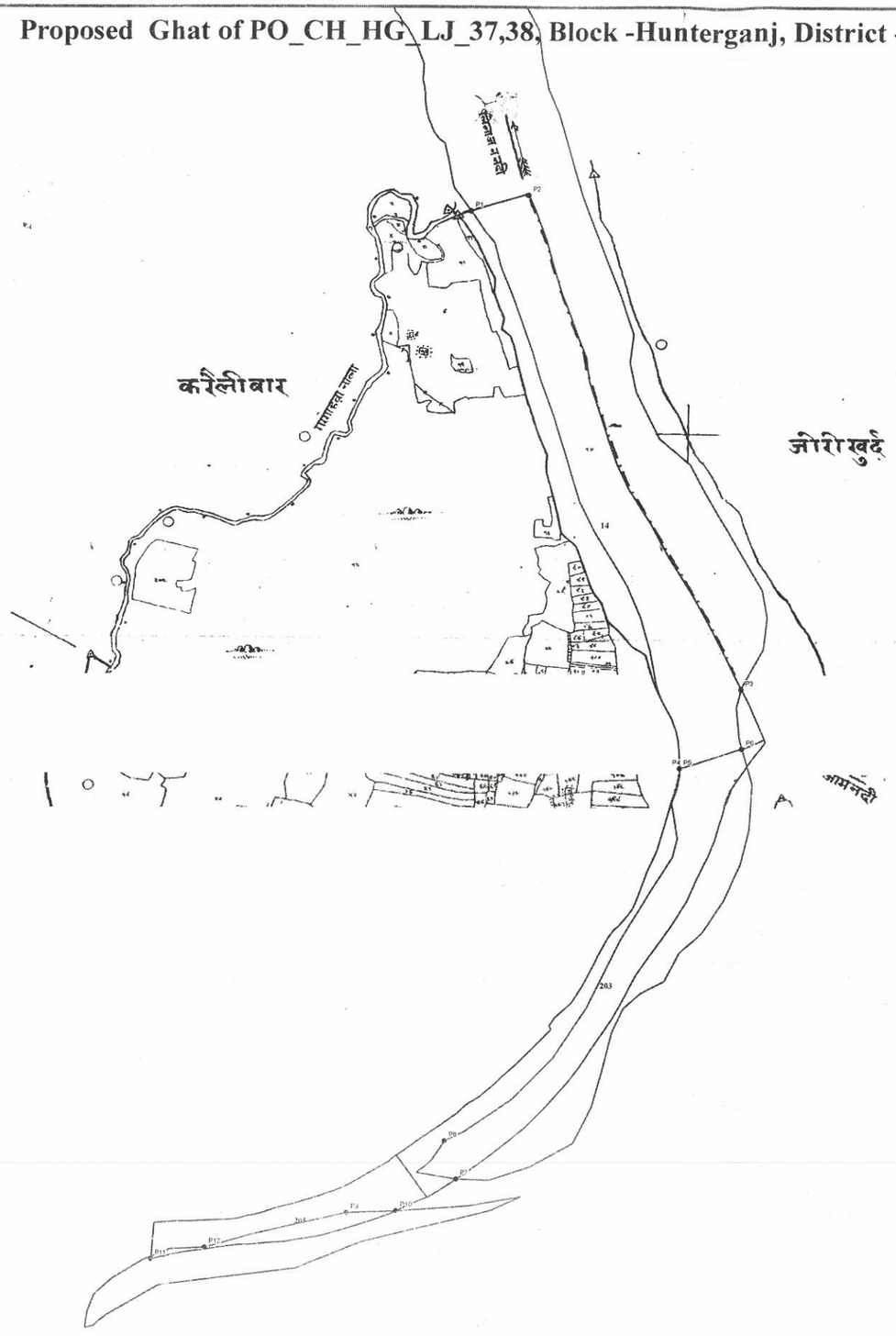
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	275684.6748	2686773.873	24° 16' 40.446" N	84° 47' 24.634" E
P2	275750.0395	2686855.627	24° 16' 43.136" N	84° 47' 26.905" E
P3	275658.0746	2686510.33	24° 16' 31.870" N	84° 47' 23.868" E
P4	275619.5735	2686536.044	24° 16' 32.685" N	84° 47' 22.461" E

Proposed Area in Ha of 43- 9.43

Approved
State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_37,38, Block -Hunterganj, District - Chatra, JHARKHAND





BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA In Acre	REMARKS
Hunterganj	Kursel	269	1	205	River	4.7436	
Hunterganj	Kursel	269	1	203	River	12.7368	
Hunterganj	Kursel	269	1	14	River	21.0544	
				TOTAL AREA		38.5348	

Proposed Area in Ha of 37- 32.84
Proposed Area in Ha of 38- 2.40

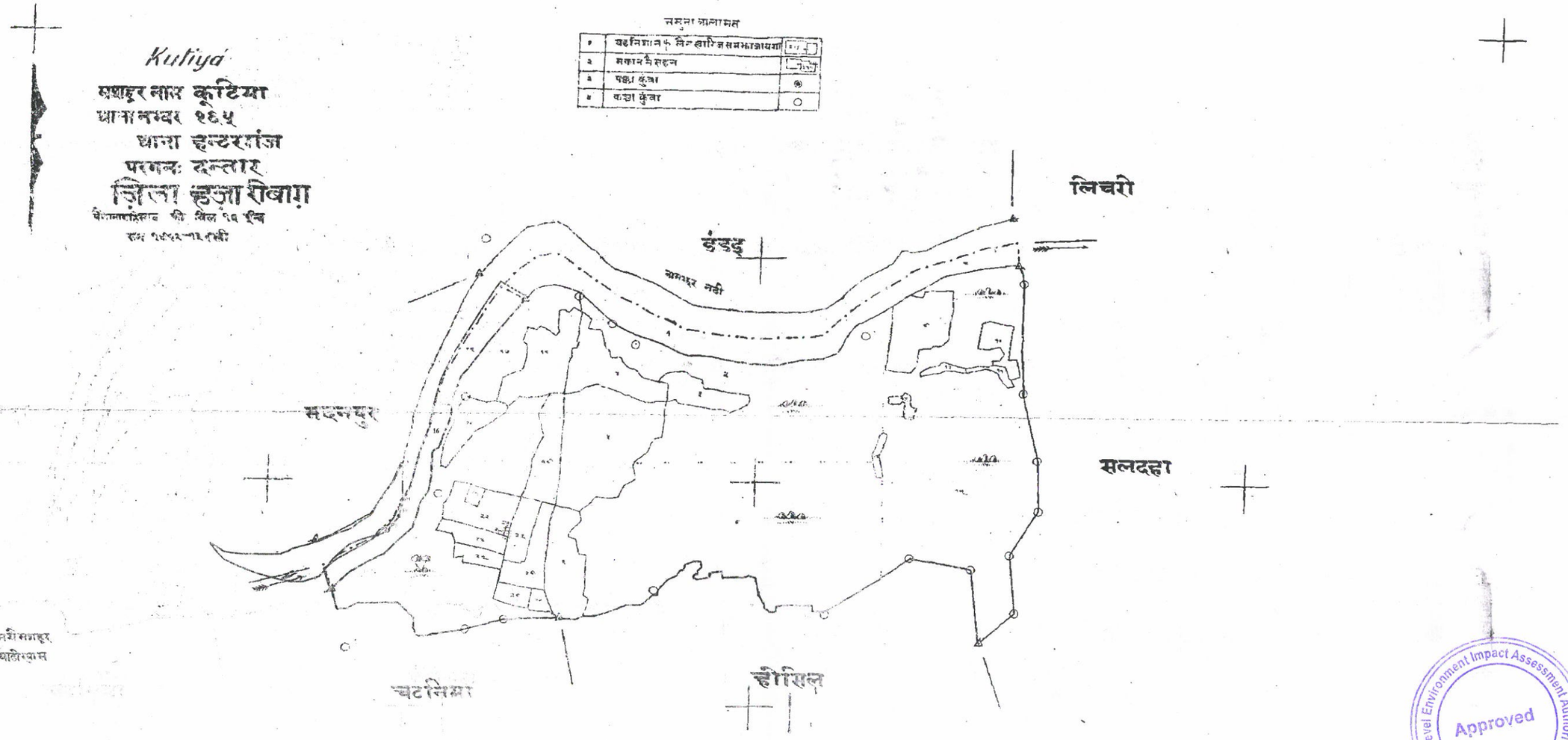
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	275722.0142	2689887.853	24° 18' 21.641" N	84° 47' 24.205" E
P2	275799.3348	2689909.755	24° 18' 22.392" N	84° 47' 26.934" E
P3	276080.5803	2689180	24° 17' 58.827" N	84° 47' 37.315" E
P4	275997.5014	2689065.173	24° 17' 55.053" N	84° 47' 34.435" E
P5	275997.5014	2689065.173	24° 17' 55.053" N	84° 47' 34.435" E
P6	276081.0835	2689092.818	24° 17' 55.995" N	84° 47' 37.382" E
P7	275694.0021	2688465.405	24° 17' 35.410" N	84° 47' 24.013" E
P8	275679.3992	2688521.902	24° 17' 37.238" N	84° 47' 23.454" E
P10	275615.6472	2688420.11	24° 17' 33.838" N	84° 47' 21.261" E
P11	275285.4769	2688353.881	24° 17' 31.576" N	84° 47' 9.594" E
P12	275357.6713	2688370.065	24° 17' 32.139" N	84° 47' 12.144" E
P9	275549.0503	2688418.263	24° 17' 33.803" N	84° 47' 18.901" E



Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_23, Block -Hantarganj, District - Chatra, JHARKHAND



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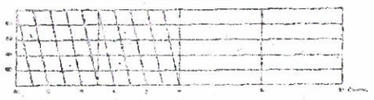
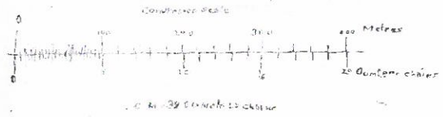


BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hantarganj	Kutiya	165		16	River	5.0913	
				TOTAL AREA		5.0913	

PILLAR NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	272748.1676	2692467.701	24°19' 43.915" N	84°45' 37.304" E
P2	272709.2056	2692415.057	24°19' 42.184" N	84°45' 35.953" E
P3	272725.8493	2692421.985	24°19' 42.418" N	84°45' 36.539" E
P4	272744.8092	2692447.46	24°19' 43.255" N	84°45' 37.197" E

Proposed Area in Ha of 23- 1.38



Superintendent of Survey

State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_30,31, Block -Huntergang, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	276509.2731	2694243.376	24° 20' 43.560" N	84° 47' 49.669" E
P2	276551.5782	2694273.227	24° 20' 44.552" N	84° 47' 51.152" E
P3	276553.1926	2694208.254	24° 20' 42.442" N	84° 47' 51.246" E
P4	276475.6445	2694203.117	24° 20' 42.235" N	84° 47' 48.499" E
P5	276451.4622	2694171.727	24° 20' 41.203" N	84° 47' 47.659" E
P6	276553.1926	2694208.254	24° 20' 42.442" N	84° 47' 51.246" E
P7	276499.7073	2694013.353	24° 20' 36.082" N	84° 47' 49.459" E
P8	276472.9769	2693947.015	24° 20' 33.913" N	84° 47' 48.548" E
P9	276480.0552	2693840.1	24° 20' 30.443" N	84° 47' 48.860" E
P10	276556.2024	2693738.947	24° 20' 27.195" N	84° 47' 51.617" E
P11	276578.5024	2693653.177	24° 20' 24.420" N	84° 47' 52.456" E
P12	276512.3931	2693646.437	24° 20' 24.167" N	84° 47' 50.115" E
P10	276578.5024	2693653.177	24° 20' 24.420" N	84° 47' 52.456" E
P11	276602.0364	2693213.963	24° 20' 10.162" N	84° 47' 53.537" E
P12	276542.7667	2693211.29	24° 20' 10.044" N	84° 47' 51.437" E
P9	276512.3931	2693646.437	24° 20' 24.167" N	84° 47' 50.115" E

Proposed Area in Ha of 30- 3.06
Proposed Area in Ha of 31- 14.07

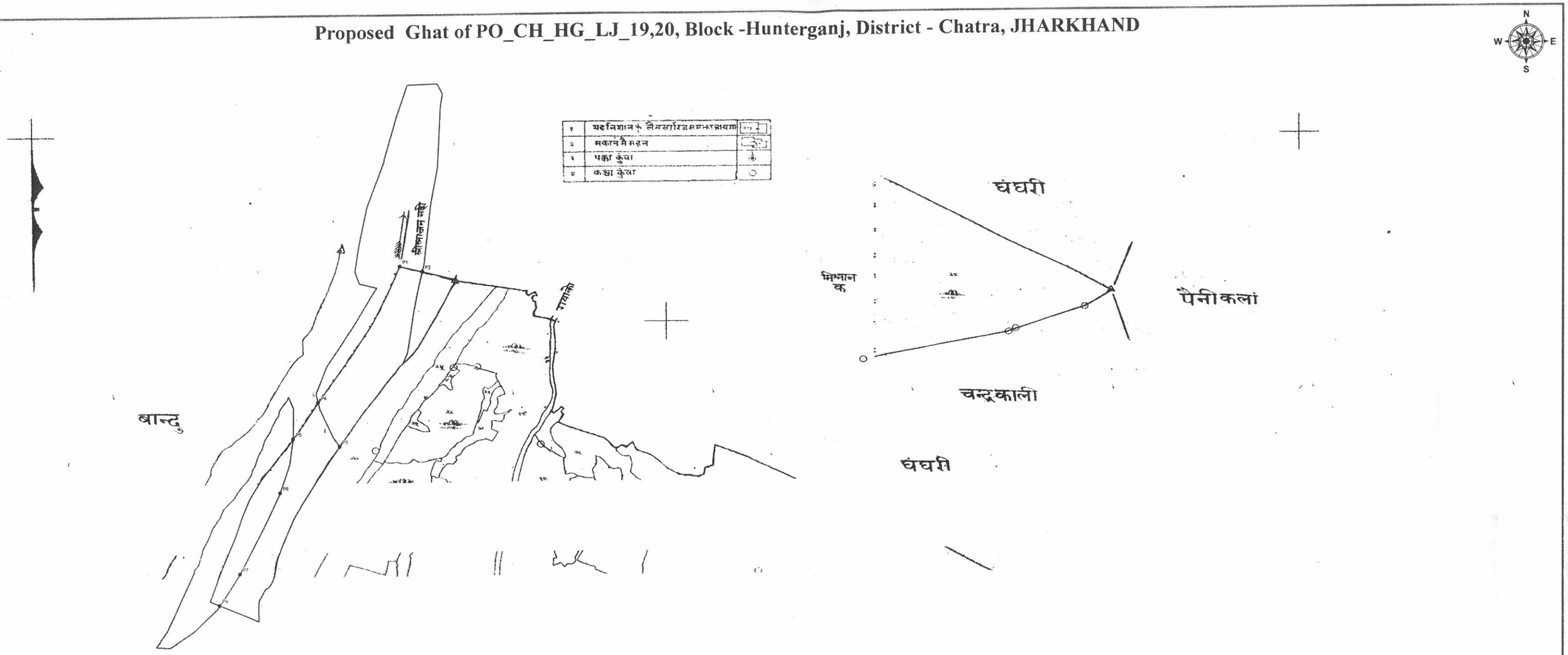
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Lohsingna alias Sonediha	144	1	244	River	2.9815	
Hunterganj	Lohsingna alias Sonediha	144	1	243	River	15.0013	
Hunterganj	Lohsingna alias Sonediha	144	1	1	River	13.9866	
				TOTAL AREA		31.9694	

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★ Approved

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_19,20, Block -Hunterganj, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Lohsingna Khurd	143	1	1	River	18.4334	
				TOTAL AREA		18.4334	

Proposed Area in Ha of 19- 7.77
Proposed Area in Ha of 20- 3.63

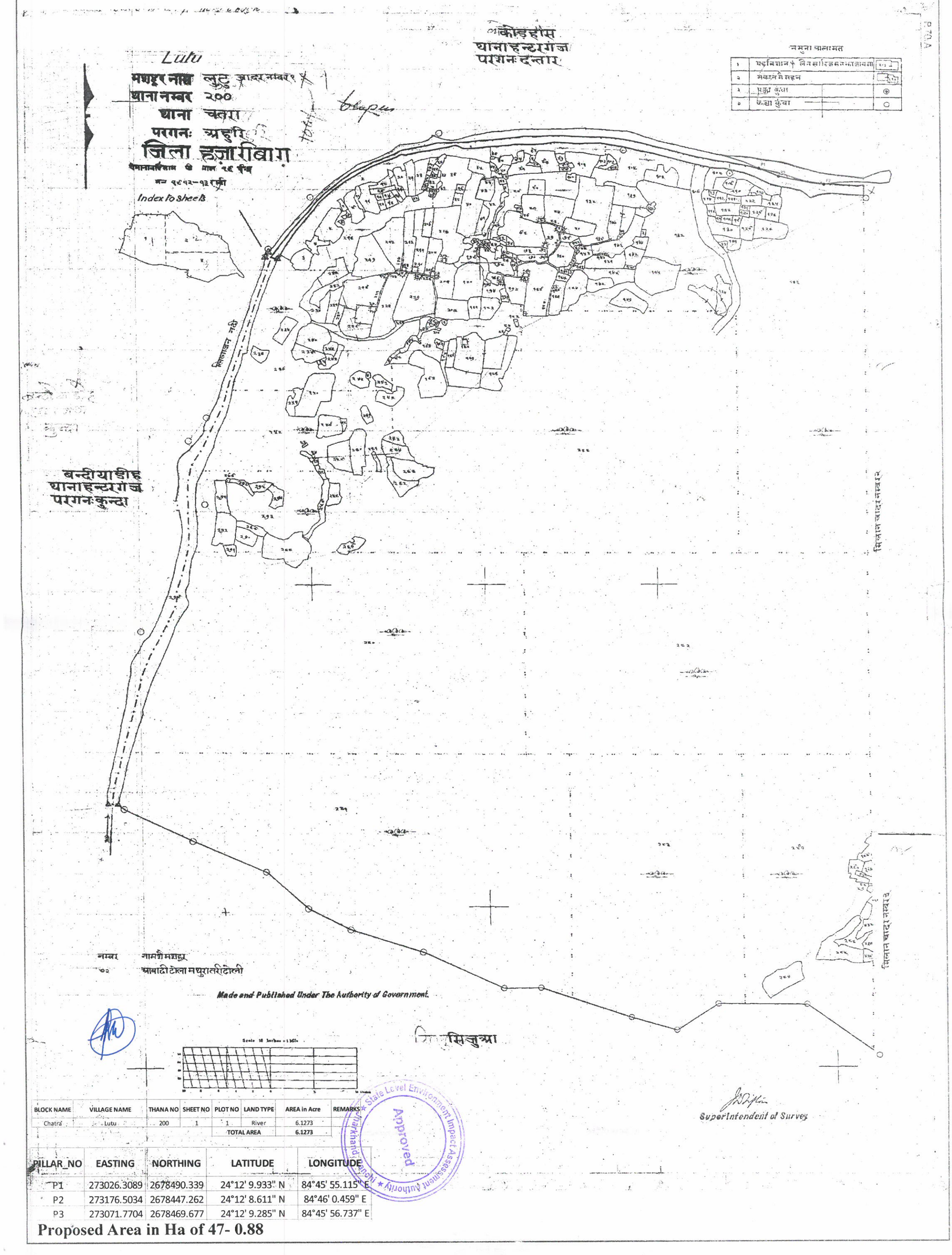
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	276833.1291	2695023.558	24° 21' 9.076" N	84° 48' 0.716" E
P2	276875.7663	2695011.423	24° 21' 8.703" N	84° 48' 2.235" E
P3	276711.9919	2694648.533	24° 20' 56.829" N	84° 47' 56.630" E
P4	276672.8704	2694741.784	24° 20' 59.838" N	84° 47' 55.191" E
P5	276623.2703	2694666.338	24° 20' 57.361" N	84° 47' 53.474" E
P6	276595.9028	2694553.946	24° 20' 53.696" N	84° 47' 52.567" E
P7	276515.3125	2694386.431	24° 20' 48.211" N	84° 47' 49.803" E
P8	276474.7588	2694321.817	24° 20' 46.091" N	84° 47' 48.401" E

State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_47, Block -Chatra, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Chatra	Lutu	200	1	1	River	6.1273	
				TOTAL AREA		6.1273	

Superintendent of Survey

State Level Environment Impact Assessment Authority ★ Jharkhand ★ Approved

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	273026.3089	2678490.339	24°12' 9.933" N	84°45' 55.115" E
P2	273176.5034	2678447.262	24°12' 8.611" N	84°46' 0.459" E
P3	273071.7704	2678469.677	24°12' 9.285" N	84°45' 56.737" E

Proposed Area in Ha of 47- 0.88

Proposed Ghat of PO_CH_HG_LJ_23,24,26, Block -Hunterganj, District - Chatra, JHARKHAND

Mudanpur

मशहूर नाम मदनपुर
थाना नम्बर १७२
थाना हन्टरगंज
परगनः दन्तार
जिला हजारीबाग़
पैमानावरिसान की मील १५ ई०इ
सन १९१२-१३ ई०सी

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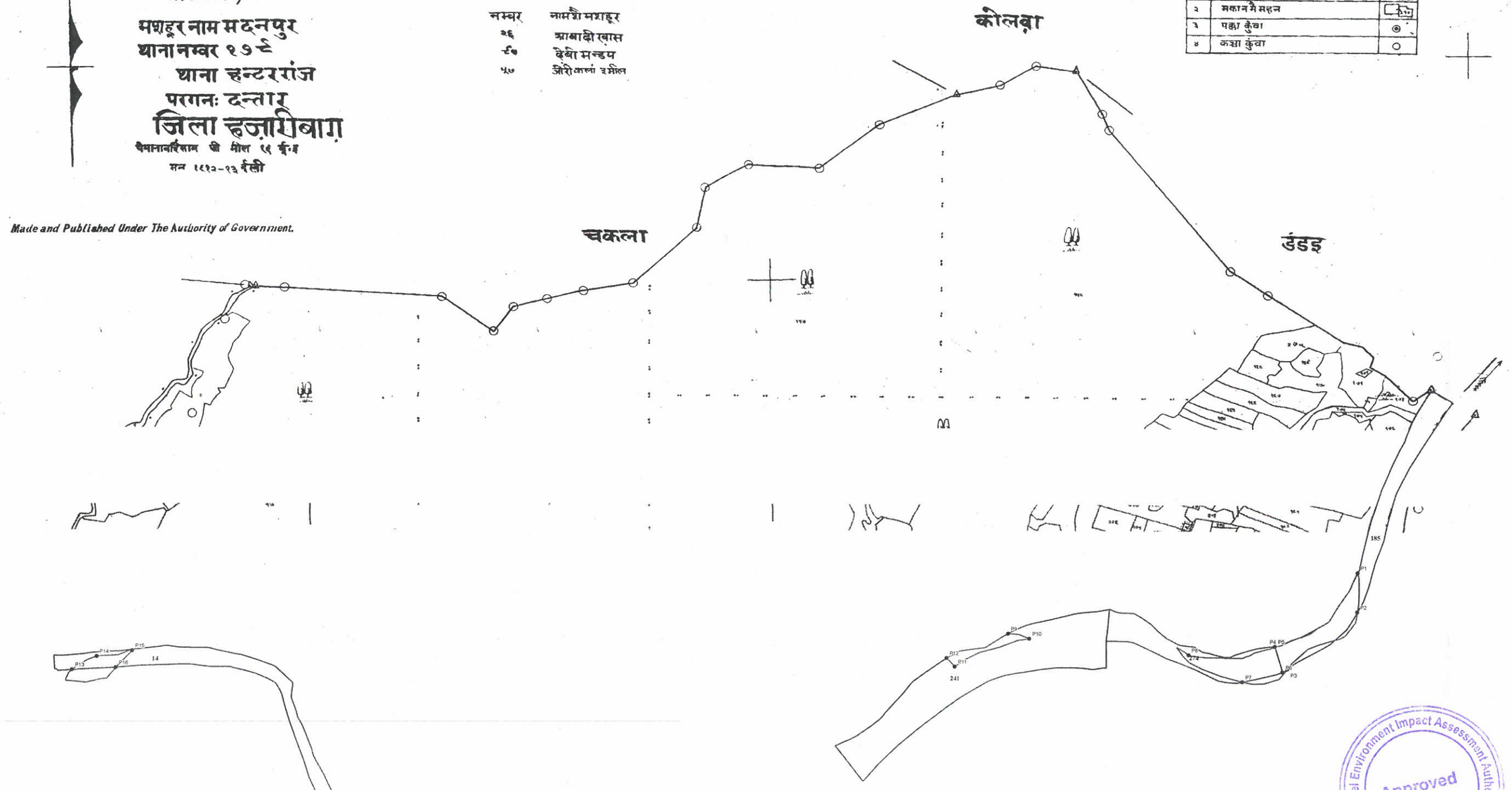
नम्बर	नामशे मशहूर
२६	आबादी खास
८७	देवी मन्डप
५७	जोरी वास्ते ३ मील

नमूना अलामत,

१	यहनिशान ↑ लैन खारिज मकामाजायगा
२	मकान मे मदन
३	पक्का कुंवा
४	कच्चा कुंवा



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Mudanpur	179	1	241	River	10.0956	
Hunterganj	Mudanpur	179	1	185	River	4.9114	
Hunterganj	Mudanpur	179	1	274	River	3.6173	
Hunterganj	Mudanpur	179	1	14	River	4.7527	
				TOTAL AREA		23.397	

Proposed Area in Ha of 23 1.38
Proposed Area in Ha of 24- 0.19
Proposed Area in Ha of 26- 0.34

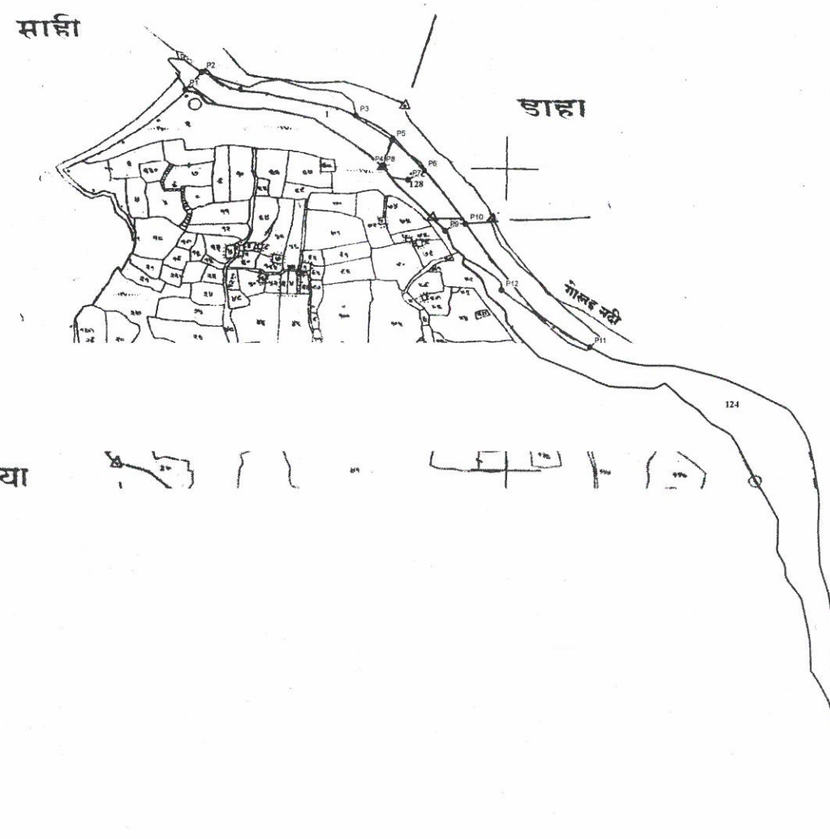
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	272748.7223	2692542.774	24° 19' 46.354" N	84° 45' 37.241" E
P2	272748.1679	2692467.701	24° 19' 43.915" N	84° 45' 37.304" E
P3	272626.5977	2692360.013	24° 19' 40.352" N	84° 45' 33.055" E
P4	272605.02	2692402.851	24° 19' 41.733" N	84° 45' 32.266" E
P5	272605.02	2692402.851	24° 19' 41.733" N	84° 45' 32.266" E
P6	272617.8803	2692353.845	24° 19' 40.148" N	84° 45' 32.750" E
P7	272547.7907	2692336.054	24° 19' 39.533" N	84° 45' 30.275" E
P8	272454.5203	2692389.063	24° 19' 41.205" N	84° 45' 26.937" E
P9	272139.9135	2692433.275	24° 19' 42.478" N	84° 45' 15.757" E
P13	270506.3342	2692388.44	24° 19' 40.160" N	84° 44' 17.860" E
P14	270549.3023	2692413.338	24° 19' 40.992" N	84° 44' 19.388" E
P15	270611.3534	2692423.051	24° 19' 41.340" N	84° 44' 21.564" E
P16	270582.3321	2692391.31	24° 19' 40.294" N	84° 44' 20.553" E
P10	272177.6023	2692423.561	24° 19' 42.182" N	84° 45' 17.098" E
P11	272046.0863	2692371.486	24° 19' 40.421" N	84° 45' 12.465" E
P12	272032.1606	2692387.635	24° 19' 40.935" N	84° 45' 11.962" E

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★
Approved

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_10,11, Block -Hunterganj, District - Chatra, JHARKHAND



Murár

मशहूर नाम मुरार
थाना नम्बर १३८
थाना हन्टरगंज
परगनः दन्तार
जिला लज़ारीबाग़
पैमानादरिसान पी मील १६ इंच
सन १९१२–१३ ईस्वी

नमुना अलामत

१	यहनिशान ↑ लैन खारिजसमभाजायगा	२५१
२	मकानमे मदन	२५२
३	पक्का कुंआ	

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Murar	138	1	124	River	10.5558	
Hunterganj	Murar	138	1	128	River	0.9925	
Hunterganj	Murar	138	1	1	River	1.7561	
				TOTAL AREA		13.3044	

Proposed Area in Ha of 10- 1.17
Proposed Area in Ha of 11- 0.85

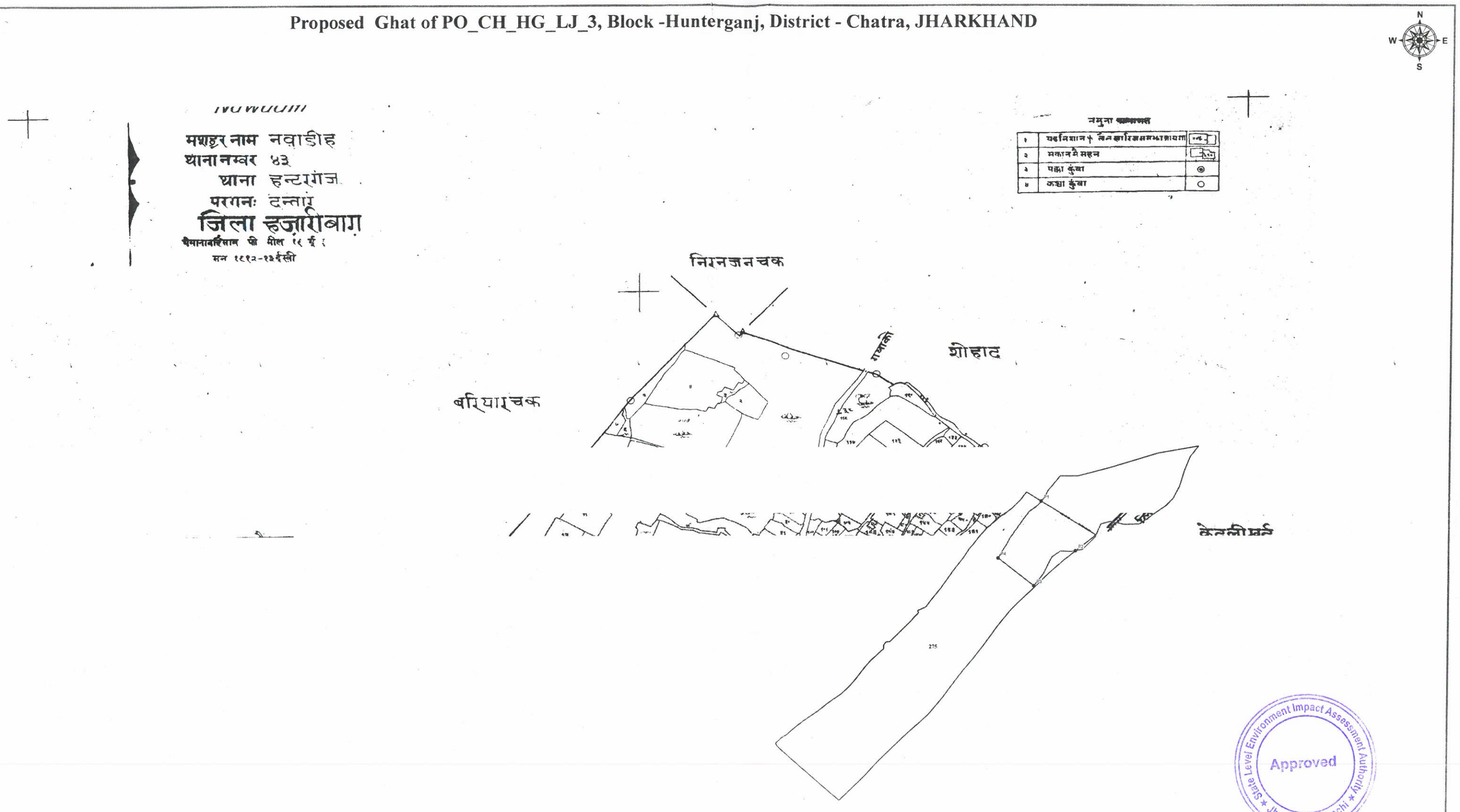
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	279001.5574	2698571.879	24° 23' 5.475" N	84° 49' 15.645" E
P2	279022.096	2698595.027	24° 23' 6.238" N	84° 49' 16.361" E
P3	279209.0702	2698533.253	24° 23' 4.326" N	84° 49' 23.028" E
P4	279240.6314	2698464.795	24° 23' 2.118" N	84° 49' 24.186" E
P5	279253.6735	2698499.091	24° 23' 3.239" N	84° 49' 24.629" E
P6	279291.4388	2698458.267	24° 23' 1.931" N	84° 49' 25.992" E
P7	279272.3679	2698445.288	24° 23' 1.500" N	84° 49' 25.322" E
P8	279240.6314	2698464.795	24° 23' 2.118" N	84° 49' 24.186" E
P9	279317.3421	2698375.833	24° 22' 59.266" N	84° 49' 26.957" E
P10	279341.999	2698385.109	24° 22' 59.580" N	84° 49' 27.826" E
P11	279494.2356	2698215.955	24° 22' 54.162" N	84° 49' 33.321" E
P12	279385.1324	2698294.377	24° 22' 56.654" N	84° 49' 29.407" E

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★
Approved

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_3, Block -Hunterganj, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	279110.2384	2704506.395	24° 26' 18.348" N	84° 49' 16.190" E
P2	279177.5303	2704395.665	24° 26' 14.785" N	84° 49' 18.640" E
P3	279093.7099	2704319.868	24° 26' 12.279" N	84° 49' 15.708" E
P4	279021.4677	2704382.052	24° 26' 14.263" N	84° 49' 13.109" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Nawadih	43	1	275	River	29.9861	
				TOTAL AREA		29.9861	

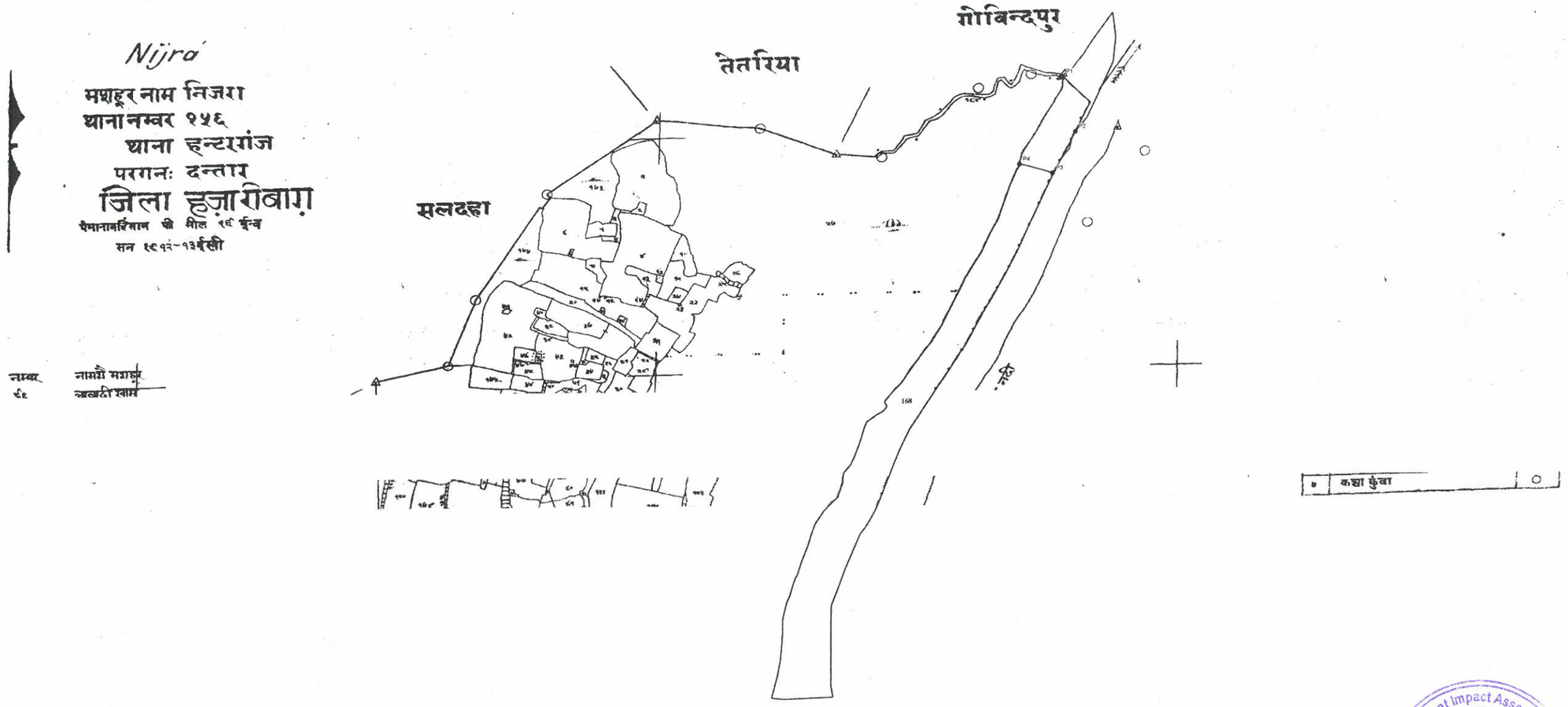
Proposed Area in Ha of 03-4.93

State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_33, Block -Hunterganj, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Nijra	156	1	168	River	16.7652	
				TOTAL AREA		16.7652	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	275889.4014	2692619.613	24° 19' 50.484" N	84° 47' 28.602" E
P2	275907.1239	2692525.592	24° 19' 47.438" N	84° 47' 29.283" E
P3	275871.2706	2692455.503	24° 19' 45.142" N	84° 47' 28.051" E
P4	275821.263	2692471.63	24° 19' 45.640" N	84° 47' 26.269" E

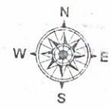
Proposed Area in Ha of 33- 1.39

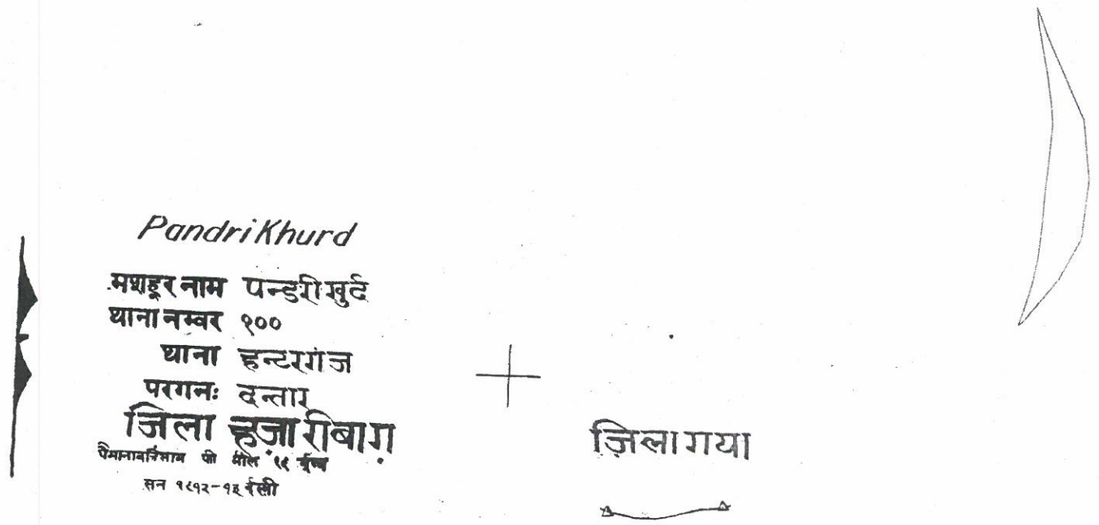
State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★
Approved

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_01 Block -Hantarganj, District - Chatra, JHARKHAND









BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Pandri Khurd	100	1	161	River	6.7769	
				TOTAL AREA		6.7769	

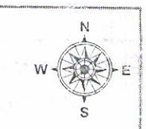
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	284032.4367	2706515.94	24° 27' 26.131" N	84° 52' 9.784" E
P2	284039.1278	2706381.992	24° 27' 21.782" N	84° 52' 10.094" E
P3	283914.193	2706351.002	24° 27' 20.713" N	84° 52' 5.677" E
P4	283899.1264	2706498.308	24° 27' 25.491" N	84° 52' 5.061" E

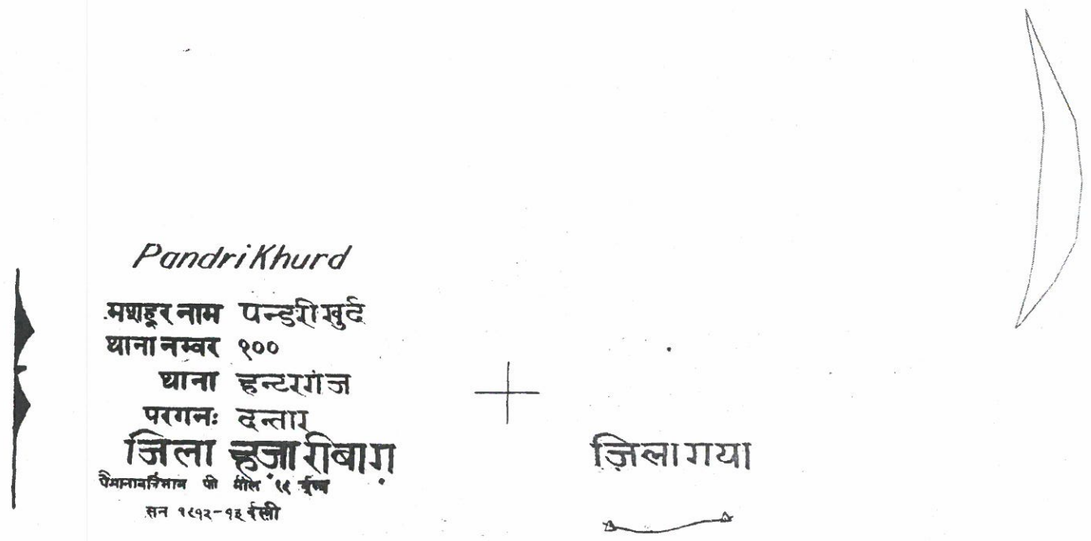
Proposed Area in Ha of 01- 4.27

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_01 Block -Hantarganj, District - Chatra, JHARKHAND









BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Pandri Khurd	100	1	161	River	6.7769	
				TOTAL AREA		6.7769	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	284032.4367	2706515.94	24° 27' 26.131" N	84° 52' 9.784" E
P2	284039.1278	2706381.992	24° 27' 21.782" N	84° 52' 10.094" E
P3	283914.193	2706351.002	24° 27' 20.713" N	84° 52' 5.677" E
P4	283899.1264	2706498.308	24° 27' 25.491" N	84° 52' 5.061" E

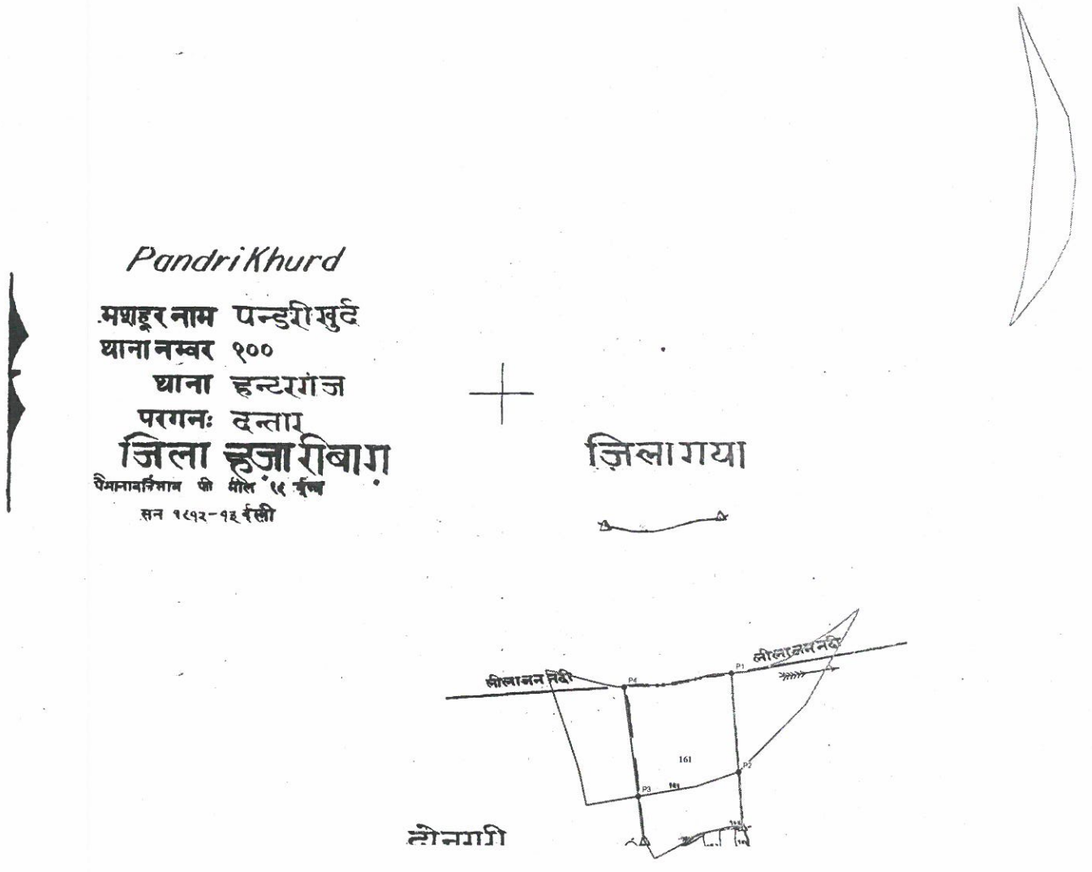
Proposed Area in Ha of 01- 4.27

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_01 Block -Hantarganj, District - Chatra, JHARKHAND





BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Pandri Khurd	100	1	161	River	6.7769	
				TOTAL AREA		6.7769	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	284032.4367	2706515.94	24° 27' 26.131" N	84° 52' 9.784" E
P2	284039.1278	2706381.992	24° 27' 21.782" N	84° 52' 10.094" E
P3	283914.193	2706351.002	24° 27' 20.713" N	84° 52' 5.677" E
P4	283899.1264	2706498.308	24° 27' 25.491" N	84° 52' 5.061" E

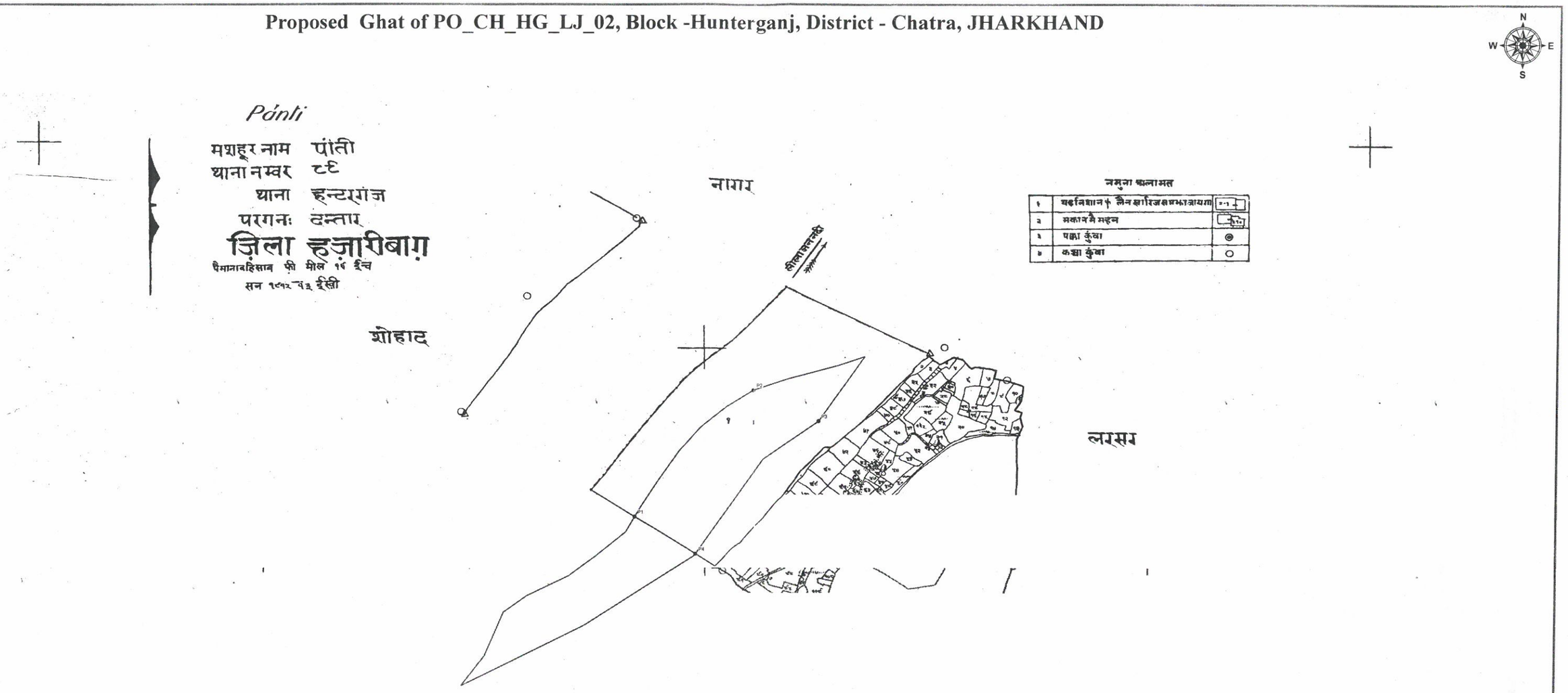
Proposed Area in Ha of 01- 4.27

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★
Approved

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_02, Block -Hunterganj, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	279770.1791	2704761.417	24° 26' 26.971" N	84° 49' 39.469" E
P2	279987.8708	2705012.153	24° 26' 35.229" N	84° 49' 47.056" E
P3	280105.8697	2704947.979	24° 26' 33.204" N	84° 49' 51.280" E
P4	279879.405	2704685.909	24° 26' 24.573" N	84° 49' 43.388" E

Proposed Area in Ha of 02- 9.56

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Panti	89	1	1	River	38.8271	
				TOTAL AREA		38.8271	

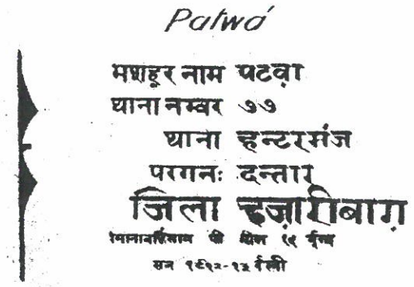
State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★
Approved

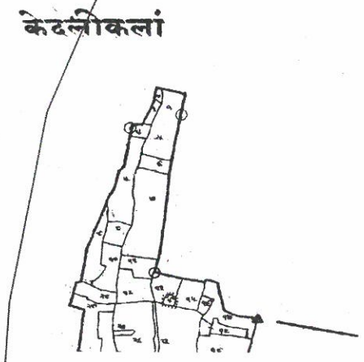
Legend

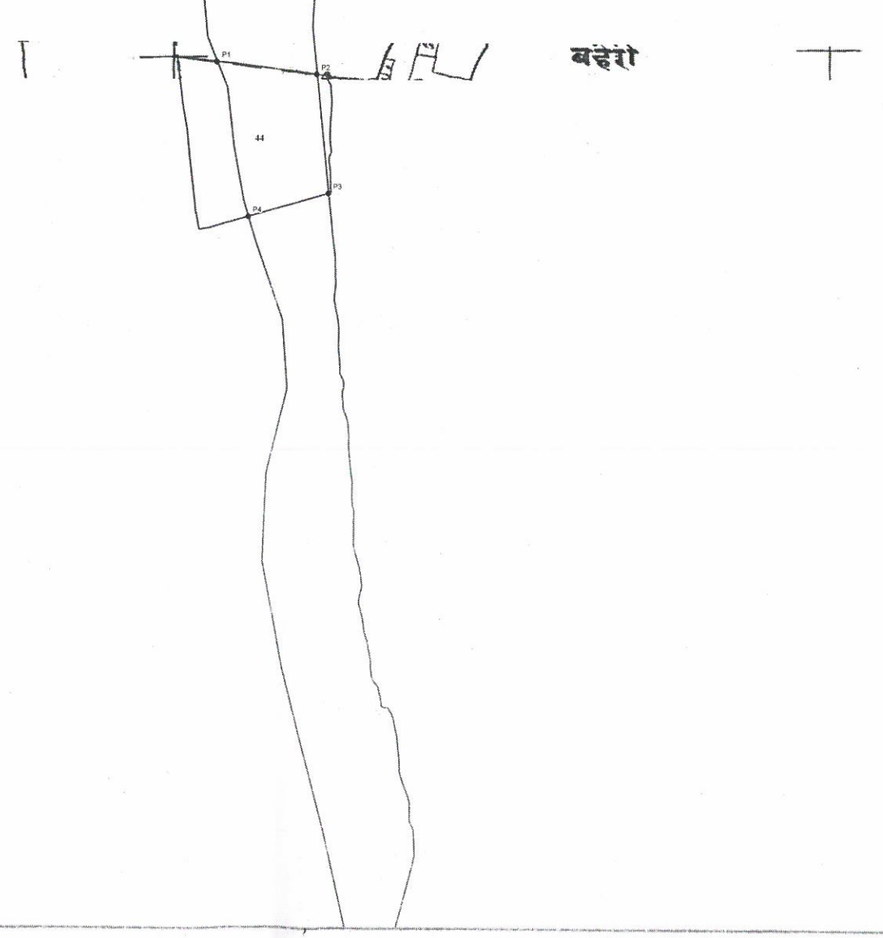
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_04, Block -Hunterganj, District - Chatra, JHARKHAND









BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Patwa	77	1	44	River	8.4874	
				TOTAL AREA		8.4874	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	278072.4342	2701815.597	24° 24' 50.390" N	84° 48' 40.868" E
P2	278194.5615	2701797.102	24° 24' 49.852" N	84° 48' 45.212" E
P3	278208.2836	2701637.203	24° 24' 44.664" N	84° 48' 45.788" E
P4	278109.0523	2701607.03	24° 24' 43.633" N	84° 48' 42.284" E

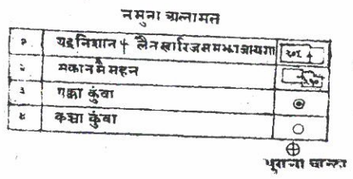
Proposed Area in Ha of 04- 45.72

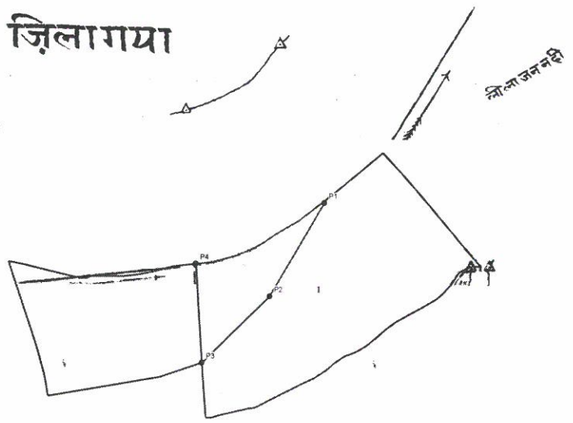


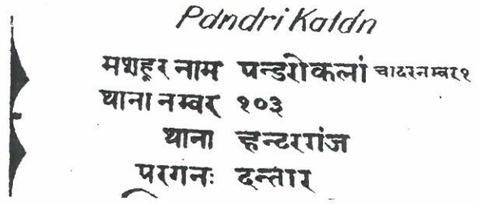
Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_01, Block -Hunterganj, District - Chatra, JHARKHAND







BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Pandri Kalan	103	1	1	River	15.8249	
				TOTAL AREA		15.8249	

Proposed Area in Ha of 01- 4.27

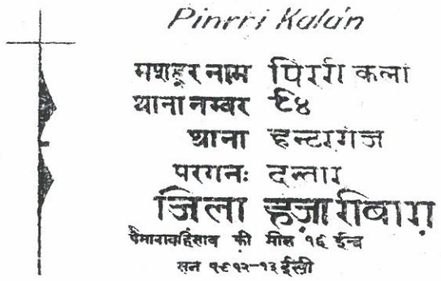
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	284190.4914	2706595.463	24° 27' 28.794" N	84° 52' 15.351" E
P2	284123.0497	2706470.983	24° 27' 24.716" N	84° 52' 13.025" E
P3	284039.1278	2706381.992	24° 27' 21.782" N	84° 52' 10.094" E
P4	284032.4367	2706515.94	24° 27' 26.131" N	84° 52' 9.784" E

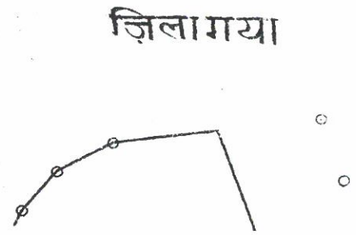
State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi

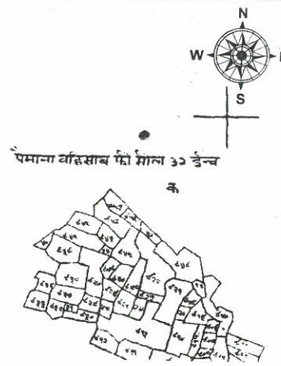
Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_1A, Block -Hunterganj, District - Chatra, JHARKHAND

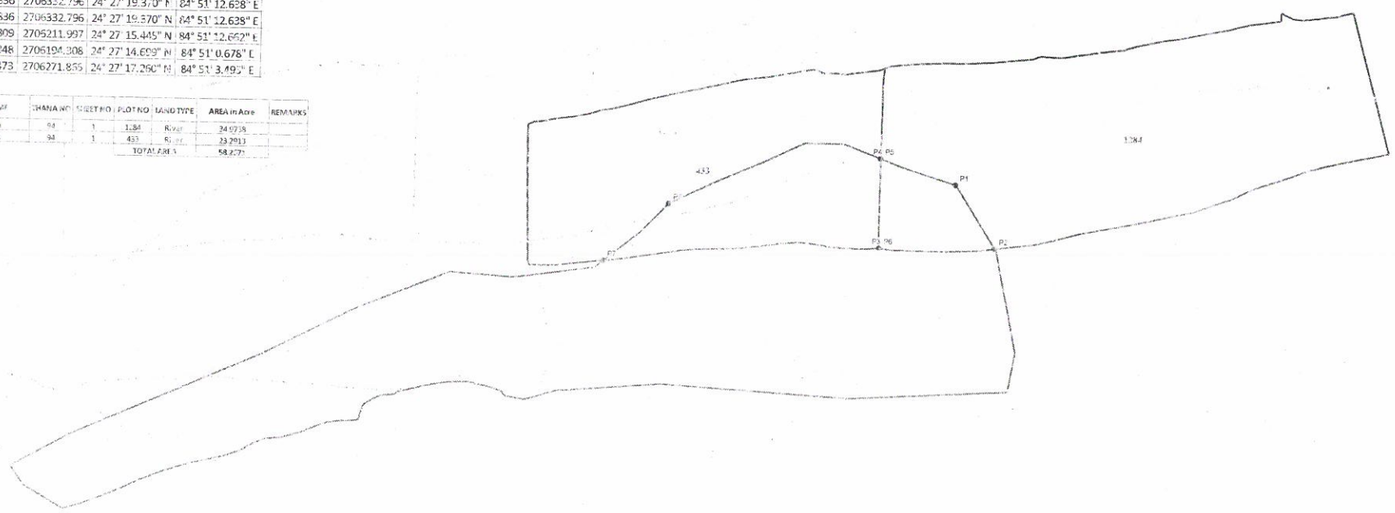






PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	282512.177	2706297.511	24° 27' 18.270" N	84° 51' 15.941" E
P2	282560.5322	2706211.519	24° 27' 15.501" N	84° 51' 17.704" E
P3	282418.4809	2706211.997	24° 27' 15.445" N	84° 51' 12.662" E
P4	282419.6836	2706332.796	24° 27' 19.370" N	84° 51' 12.628" E
P5	282419.6836	2706332.796	24° 27' 19.370" N	84° 51' 12.628" E
P6	282418.4809	2705211.997	24° 27' 15.445" N	84° 51' 12.662" E
P7	282080.5848	2706194.308	24° 27' 14.699" N	84° 51' 0.678" E
P8	282161.3473	2706271.855	24° 27' 17.290" N	84° 51' 3.492" E

BLOCK NAME	VILLAGE NAME	CHANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Pirri Kalan	64	1	1384	River	34.9738	
Hunterganj	Pirri Kalan	64	1	433	River	23.2913	
				TOTAL AREA		58.265	



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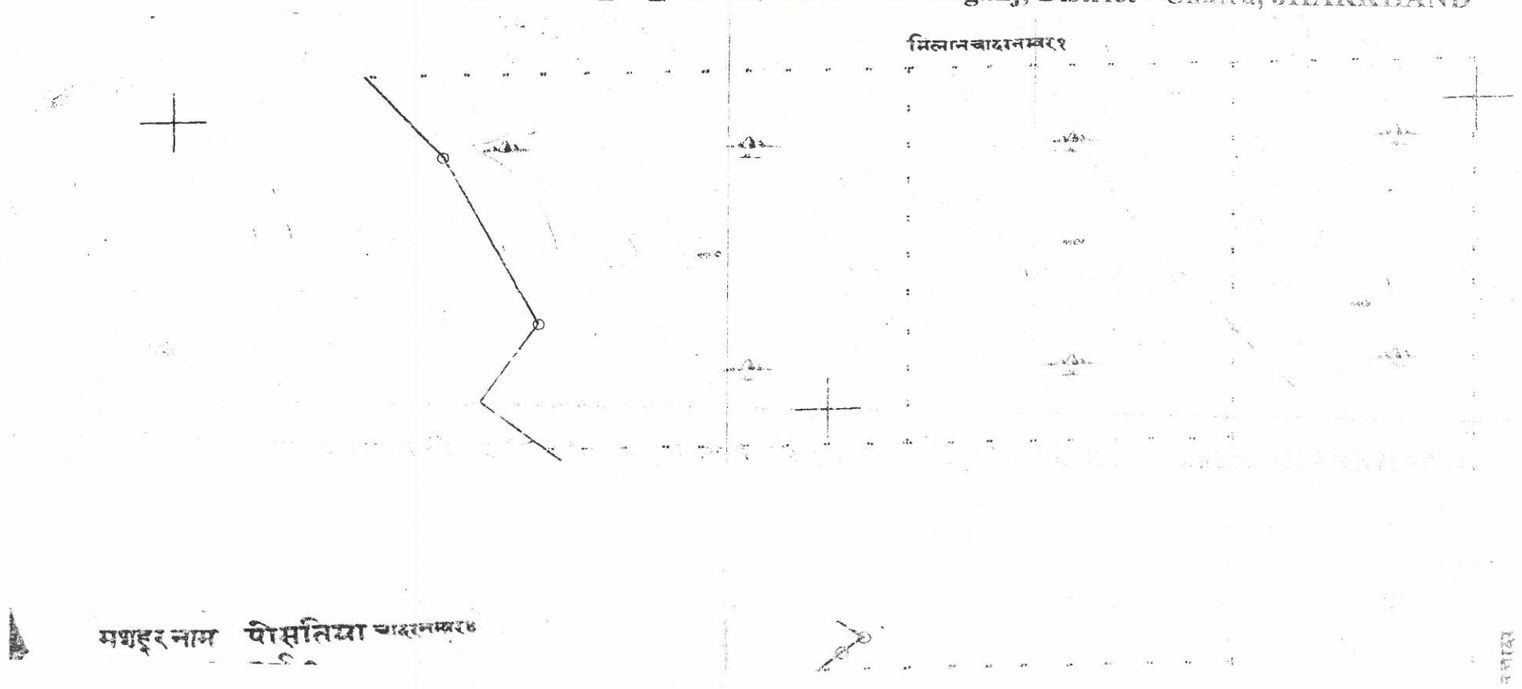
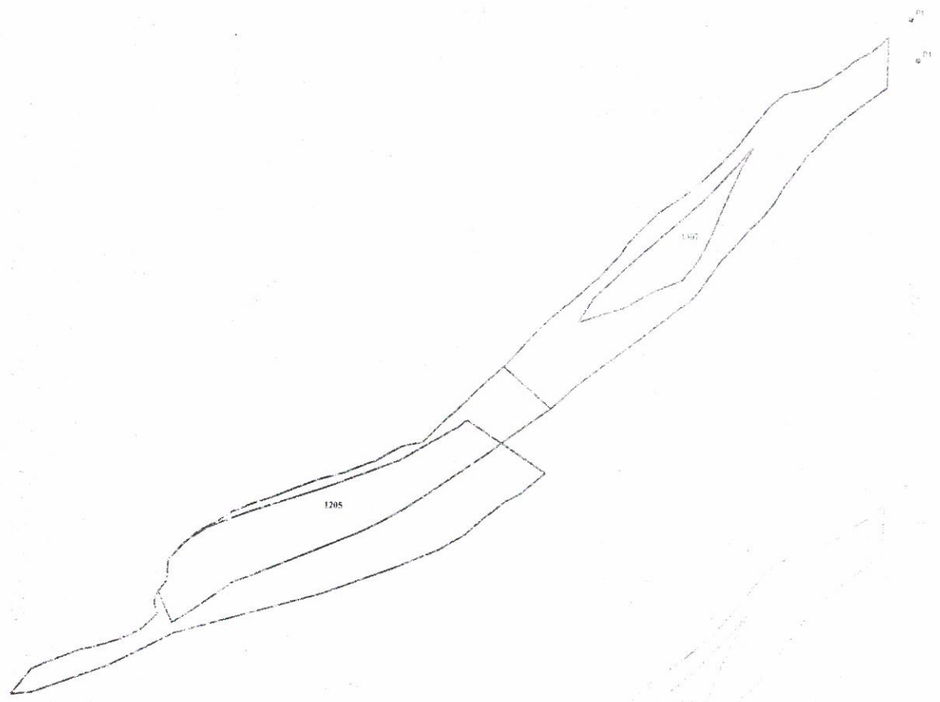
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Area in Ha of 1A- 22.89

Proposed Ghat of PO_CH_HG_LJ_56,56A, Block -Hunterganj, District - Chatra, JHARKHAND





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PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P10	279827.3694	2686954.75	24° 16' 48.764" N	84° 49' 51.367" E
P11	279418.4139	2686724.709	24° 16' 40.757" N	84° 49' 37.004" E
P12	279440.863	2686837.704	24° 16' 44.440" N	84° 49' 37.737" E
P9	279787.5707	2686995.276	24° 16' 49.738" N	84° 49' 49.368" E
P5	280142.6288	2687358.641	24° 17' 1.721" N	84° 50' 2.324" E
P6	280073.0251	2687208.009	24° 16' 56.792" N	84° 49' 59.940" E
P7	279979.5075	2687145.512	24° 16' 54.714" N	84° 49' 56.660" E
P8	279943.2702	2687159.187	24° 16' 55.140" N	84° 49' 55.368" E

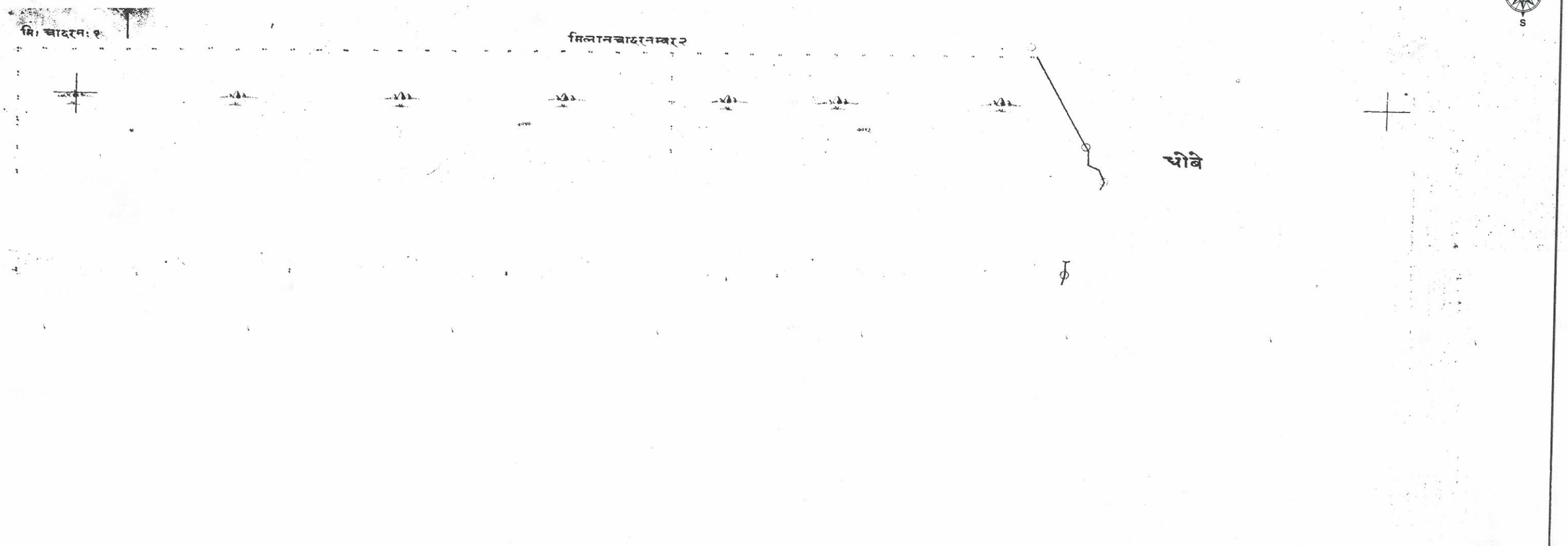
Proposed Area in Ha of 56- 6.43
Proposed Area in Ha of 56A- 1.02

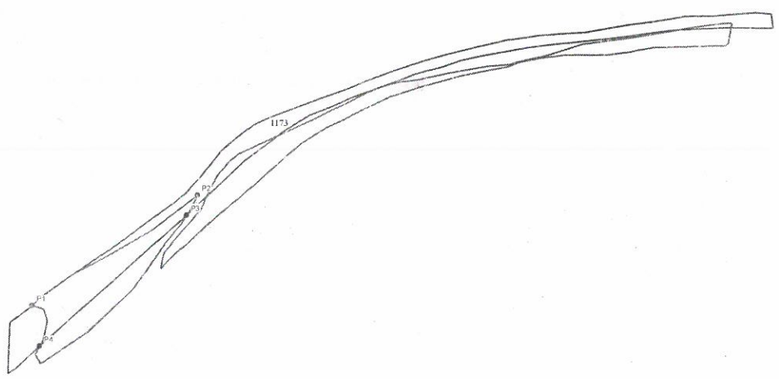
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Posiya	297	4	1205	River	12.0349	
Hunterganj	Posiya	297	4	1205	River	10.0515	
					TOTAL AREA	22.0864	

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_59, Block -Hunterganj, District - Chatra, JHARKHAND





PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	280339.9751	2687532.248	24° 17' 7.462" N	84° 50' 9.224" E
P2	280543.677	2687680.385	24° 17' 12.378" N	84° 50' 16.363" E
P3	280529.82	2687653.263	24° 17' 11.490" N	84° 50' 15.887" E
P4	280348.7385	2687477.089	24° 17' 5.674" N	84° 50' 9.565" E

Proposed Area in Ha of 59- 1.46

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Postia	297	1	1173	River	6.0628	
				TOTAL AREA		6.0628	

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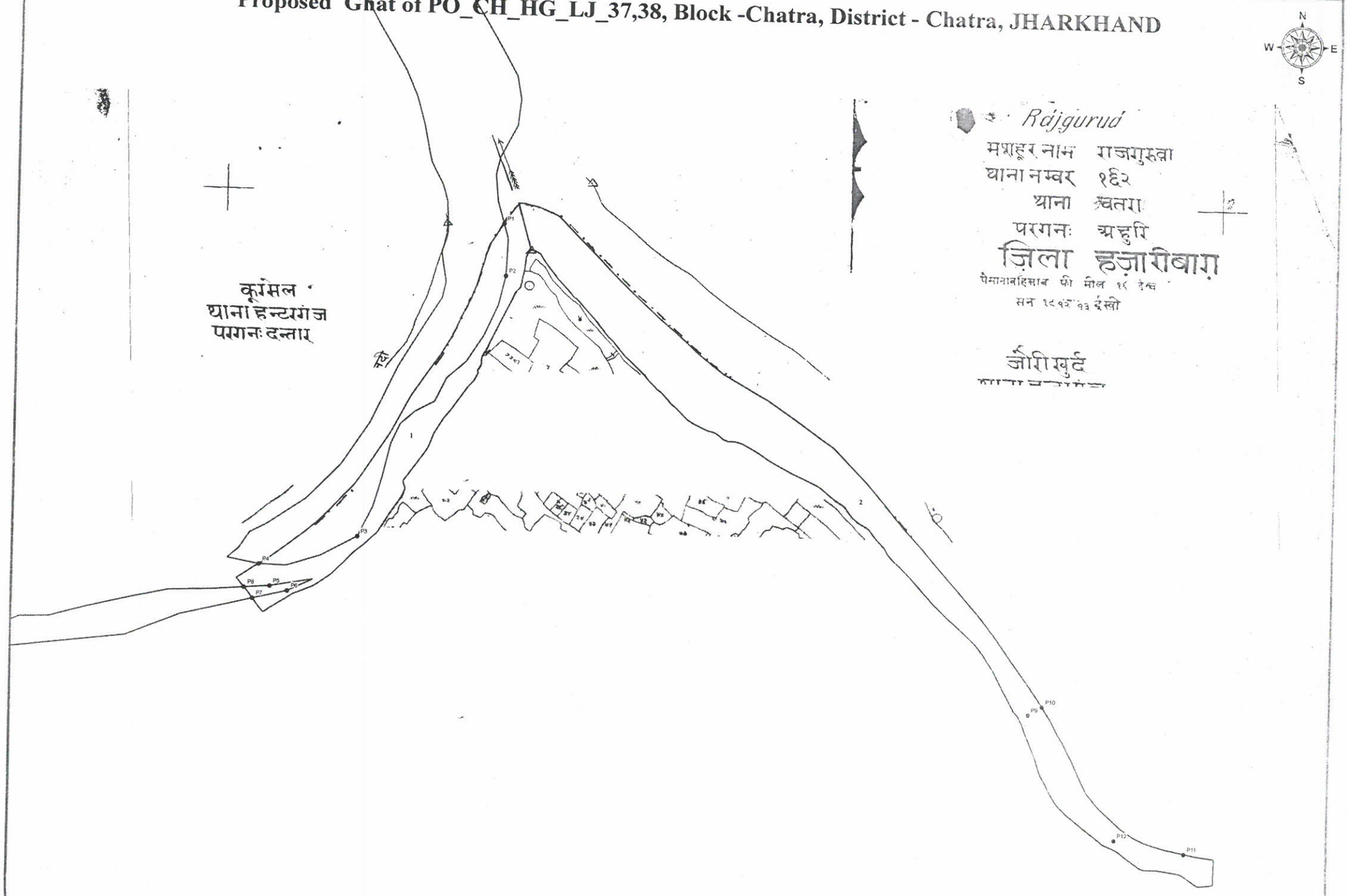
Approved

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_37,38, Block -Chatra, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Chatra	Rajgurua	162	1	1	River	13.771	
Chatra	Rajgurua	162	1	2	River	24.315	
				TOTAL AREA		38.086	

Proposed Area in Ha of 37- 32.84
Proposed Area in Ha of 38- 2.40

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	276087.5207	2689066.765	24° 17' 55.151" N	84° 47' 37.625" E
P2	276090.1516	2688974.645	24° 17' 52.160" N	84° 47' 37.770" E
P3	275851.6969	2688515.972	24° 17' 37.134" N	84° 47' 29.575" E
P4	275694.0021	2688465.405	24° 17' 35.410" N	84° 47' 24.013" E
P5	275711.6555	2688426.609	24° 17' 34.159" N	84° 47' 24.661" E
P6	275739.6982	2688418.601	24° 17' 33.913" N	84° 47' 25.659" E
P7	275683.8749	2688404.536	24° 17' 33.427" N	84° 47' 23.688" E
P8	275670.3725	2688423.727	24° 17' 34.044" N	84° 47' 23.199" E
P10	276959.4017	2688229.246	24° 17' 28.388" N	84° 48' 9.002" E
P11	277190.207	2687974.778	24° 17' 20.238" N	84° 48' 17.326" E
P12	277076.6291	2687997.654	24° 17' 20.923" N	84° 48' 13.287" E
P9	276936.4611	2688214.996	24° 17' 27.913" N	84° 48' 8.197" E

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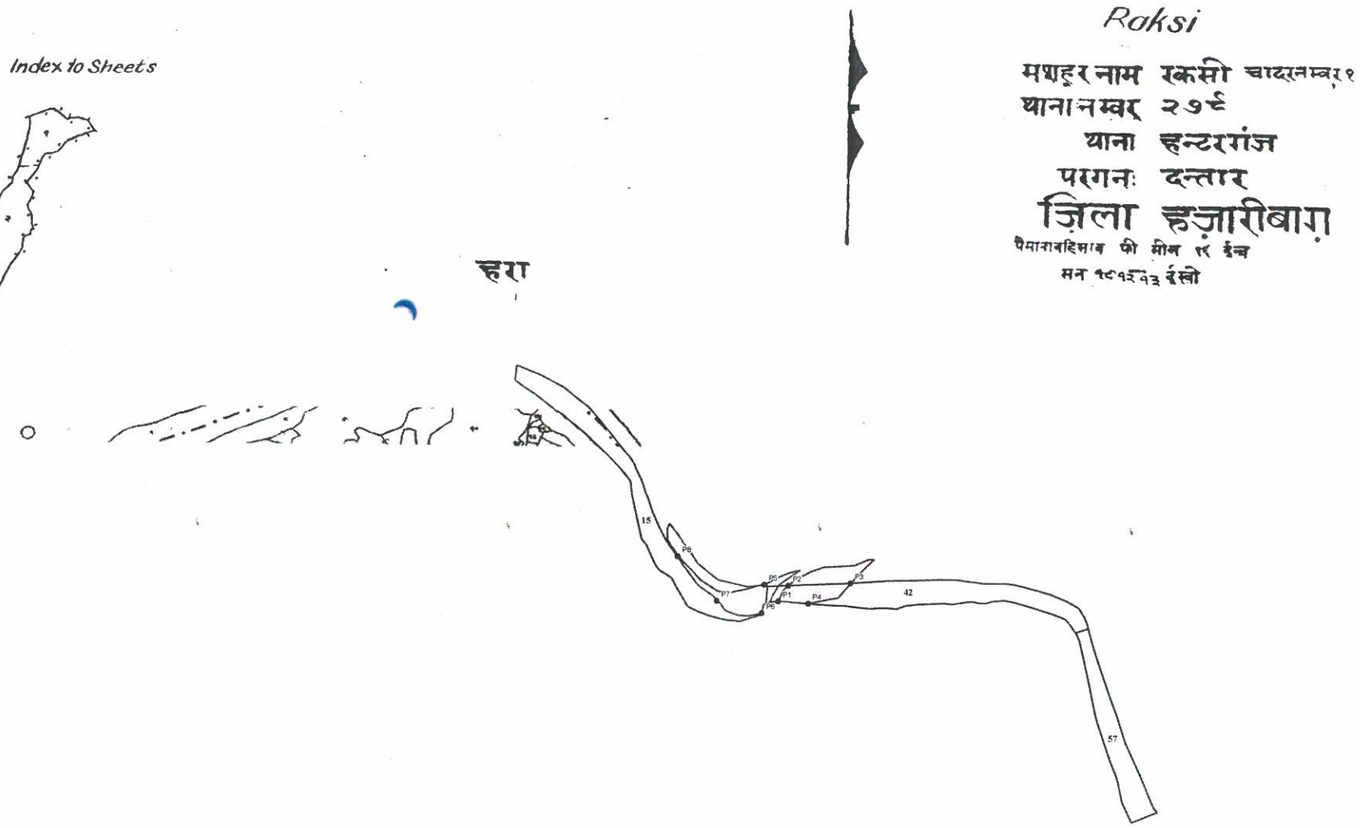
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_26,27, Block -Hunterganj, District - Chatra, JHARKHAND





BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Raksi	279	1	57	River	1.5441	
Hunterganj	Raksi	279	1	42	River	2.7595	
Hunterganj	Raksi	279	1	15	River	3.0788	
				TOTAL AREA		7.3824	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	270493.8535	2692367.577	24° 19' 39.476" N	84° 44' 17.429" E
P2	270506.3342	2692388.44	24° 19' 40.160" N	84° 44' 17.860" E
P3	270582.3321	2692391.31	24° 19' 40.294" N	84° 44' 20.553" E
P4	270530.4219	2692363.958	24° 19' 39.378" N	84° 44' 18.728" E
P5	270476.5861	2692389.899	24° 19' 40.192" N	84° 44' 16.804" E
P6	270473.3671	2692351.806	24° 19' 38.953" N	84° 44' 16.712" E
P7	270418.4361	2692368.5	24° 19' 39.466" N	84° 44' 14.755" E
P8	270371.2678	2692429.341	24° 19' 41.418" N	84° 44' 13.047" E

Proposed Area in Ha of 26- 0.34
Proposed Area in Ha of 27- 0.44

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Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_05,06,07,08,10,13, Block -Huntergan j, District - Chatra, JHARKHAND

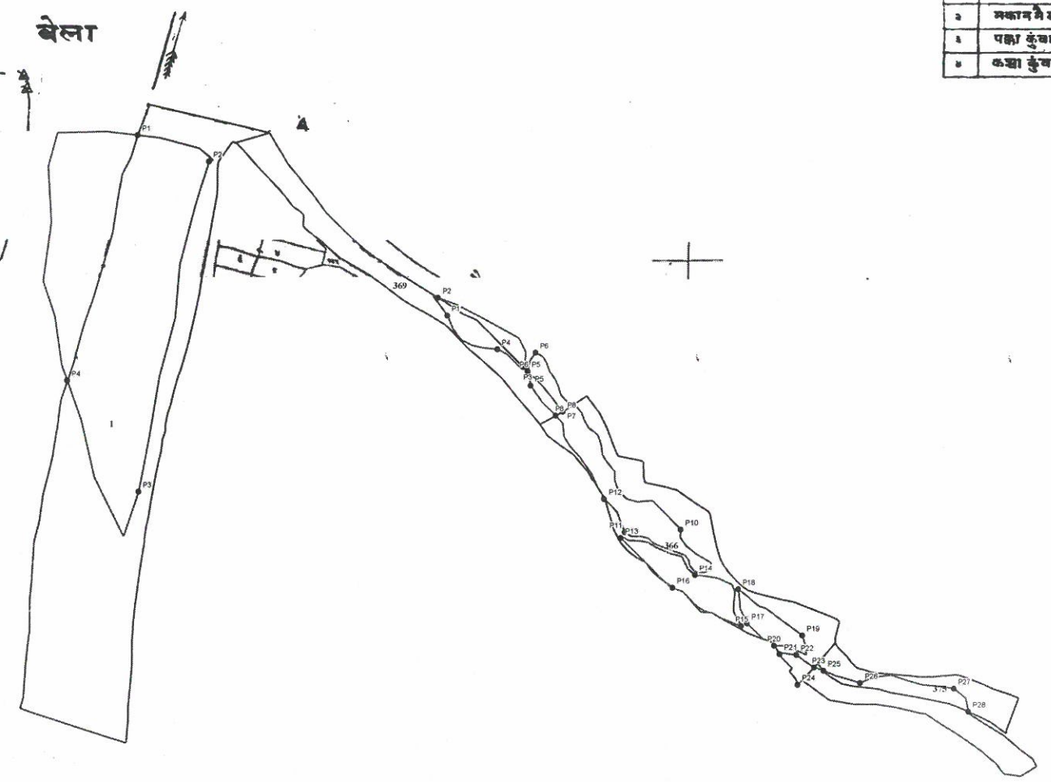
Sahi

मशहूर नाम साही
थाना नम्बर १२५
थाना हन्टरगंज
परगनः दन्तार
ज़िला हज़ारिबाग़
पैमानाबहिसाब फ़ी मील १६ इंच
सन १९९२ ९३ ईसवी

बेला

नमूना चलानत

१	एकनिशान ↑ लैन खोरजसमझाजायगा	
२	मकान मै मंदिर	
३	पक्का कुंवा	●
४	कच्चा कुंवा	○



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	278199.0978	2699322.337	24° 23' 29.448" N	84° 48' 46.758" E
P2	278286.5093	2699285.516	24° 23' 28.296" N	84° 48' 49.880" E
P3	278195.4704	2698840.862	24° 23' 13.802" N	84° 48' 46.899" E
P4	278110.202	2698992.036	24° 23' 18.670" N	84° 48' 43.789" E
P10	278860.3175	2698782.404	24° 23' 12.243" N	84° 49' 10.517" E
P11	278792.1065	2698779.134	24° 23' 12.102" N	84° 49' 8.099" E
P12	278767.6502	2698824.493	24° 23' 13.563" N	84° 49' 7.206" E
P13	278787.2387	2698771.728	24° 23' 11.859" N	84° 49' 7.931" E
P14	278877.4025	2698720.709	24° 23' 10.247" N	84° 49' 11.158" E
P15	278933.5174	2698651.106	24° 23' 8.014" N	84° 49' 13.187" E
P16	278849.5931	2698703.713	24° 23' 9.681" N	84° 49' 10.181" E
P17	278940.8835	2698654.724	24° 23' 8.136" N	84° 49' 13.446" E
P18	278930.105	2698700.939	24° 23' 9.632" N	84° 49' 13.038" E
P19	279037.7859	2698638.076	24° 23' 7.629" N	84° 49' 15.829" E
P20	278974.0438	2698624.446	24° 23' 7.169" N	84° 49' 14.640" E
P21	278980.165	2698613.243	24° 23' 6.808" N	84° 49' 14.863" E
P22	279000.2475	2698611.767	24° 23' 6.770" N	84° 49' 15.576" E
P23	279017.096	2698595.027	24° 23' 6.238" N	84° 49' 16.361" E
P24	279001.5574	2698571.875	24° 23' 5.475" N	84° 49' 15.645" E
P9	278730.2526	2698951.807	24° 23' 17.681" N	84° 49' 5.809" E
P1	278576.0828	2699073.892	24° 23' 21.568" N	84° 49' 0.271" E
P2	278564.9376	2699097.847	24° 23' 22.342" N	84° 48' 59.852" E
P3	278669.0673	2699003.23	24° 23' 19.320" N	84° 49' 3.609" E
P4	278637.3423	2699027.597	24° 23' 20.096" N	84° 49' 2.470" E
P5	278678.118	2698976.193	24° 23' 18.511" N	84° 49' 3.944" E
P5	278674.2715	2698997.553	24° 23' 19.138" N	84° 49' 3.797" E
P6	278674.2715	2698997.553	24° 23' 19.138" N	84° 49' 3.797" E
P6	278684.3634	2699022.801	24° 23' 19.964" N	84° 49' 4.141" E
P7	278717.5262	2698942.603	24° 23' 17.375" N	84° 49' 5.362" E
P7	278730.2526	2698951.807	24° 23' 17.681" N	84° 49' 5.809" E
P8	278708.7733	2698937.458	24° 23' 17.203" N	84° 49' 5.055" E
P8	278717.5262	2698942.603	24° 23' 17.375" N	84° 49' 5.362" E
P25	279035.5907	2698583.854	24° 23' 6.075" N	84° 49' 16.771" E
P26	279038.3206	2698573.146	24° 23' 5.552" N	84° 49' 18.367" E
P27	279191.2461	2698564.373	24° 23' 5.328" N	84° 49' 27.379" E
P28	279209.0702	2698533.253	24° 23' 4.326" N	84° 49' 23.028" E

Proposed Area in Ha of 05- 0.37
Proposed Area in Ha of 06- 1.01
Proposed Area in Ha of 07- 0.52
Proposed Area in Ha of 08- 0.27
Proposed Area in Ha of 10- 1.17
Proposed Area in Ha of 13- 6.66

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Sahi	125	1	1	River	26.164	
Hunterganj	Sahi	125	1	375	River	2.0188	
Hunterganj	Sahi	125	1	366	River	8.0199	
Hunterganj	Sahi	125	1	369	River	3.8877	
					TOTAL AREA	40.0904	

State Level Environment Impact Assessment Authority
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Jharkhand, Ranchi

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

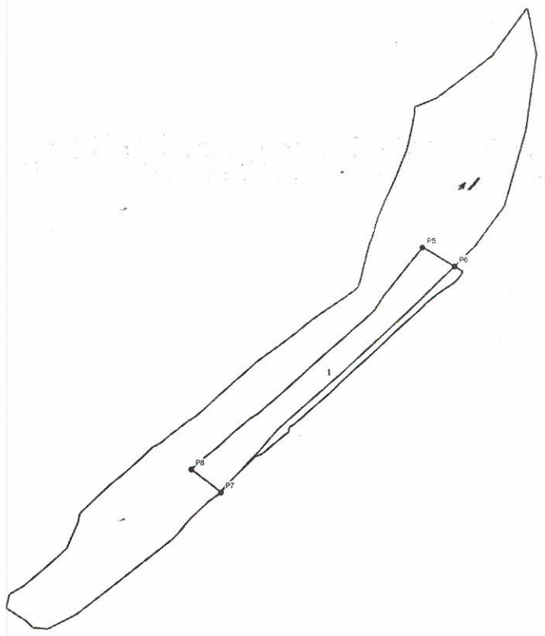
Proposed Ghat of PO_CH_HG_LJ_43, Block -Chatra, District - Chatra, JHARKHAND



. Sendudri
मशहूर नाम सेन्दुवारी
थाना नम्बर १६६
थाना चतरा
परगनः अहुरि

नमुना अलामत

१	यह निशान + लैन खारिज समझा जाय	
२	मकान में सहन	
३	पक्का कुंवा	◉
४	कच्चा कुंवा	○



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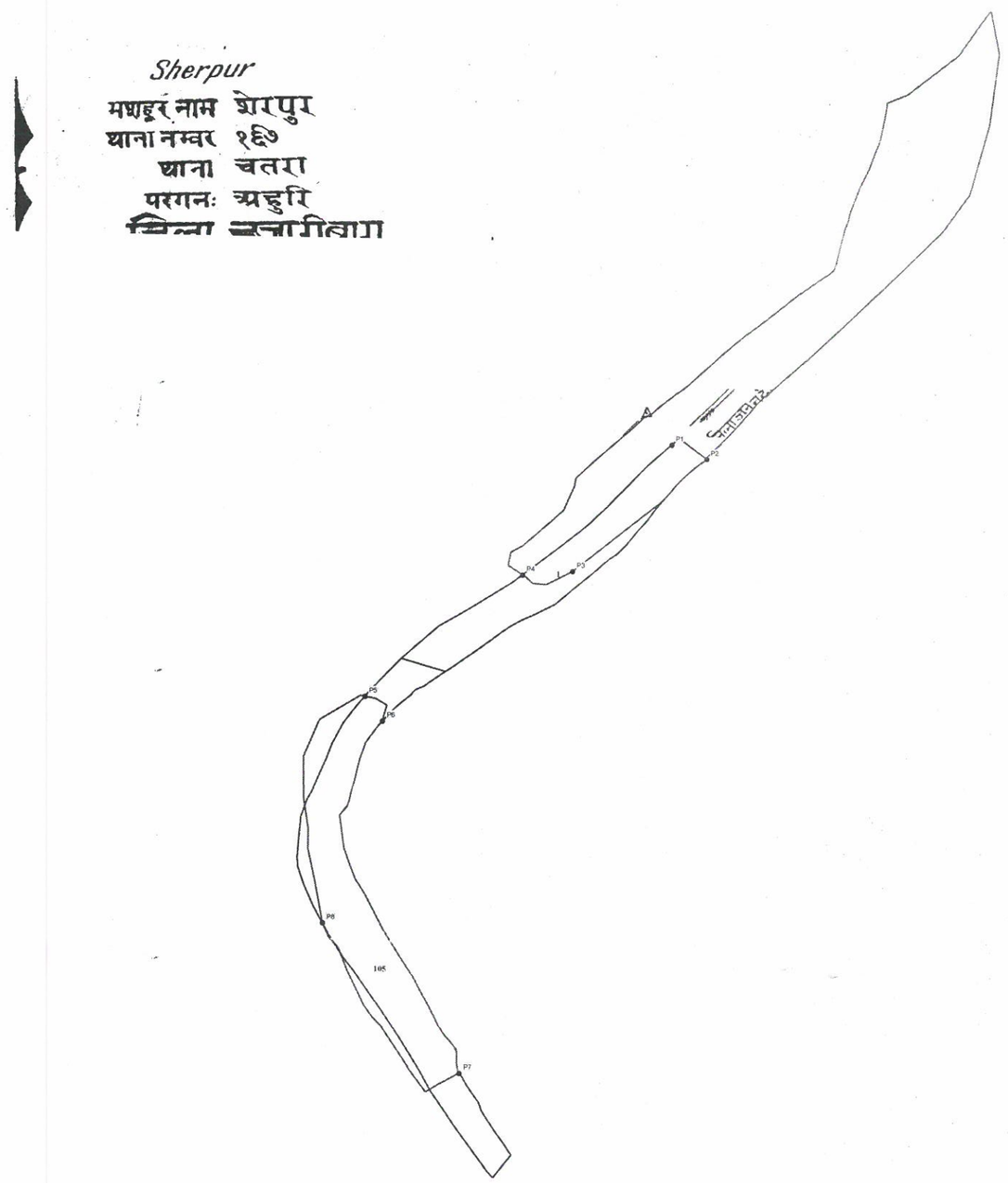
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Chatra	Senduari	166	1	1	River	4.5172	
				TOTAL AREA		4.5172	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P5	275619.5785	2686536.044	24° 16' 32.685" N	84° 47' 22.461" E
P6	275658.8746	2686510.33	24° 16' 31.870" N	84° 47' 23.868" E
P7	275367.9106	2686208.241	24° 16' 21.905" N	84° 47' 13.725" E
P8	275331.3596	2686238.555	24° 16' 22.871" N	84° 47' 12.413" E

Proposed Area in Ha of 43- 9.43

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_43,43A Block -Chatra, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Chatra	Sherpur	167	1	1	River	6.3679	
Chatra	Sherpur	167	1	105	River	10.8014	
				TOTAL AREA		17.1693	

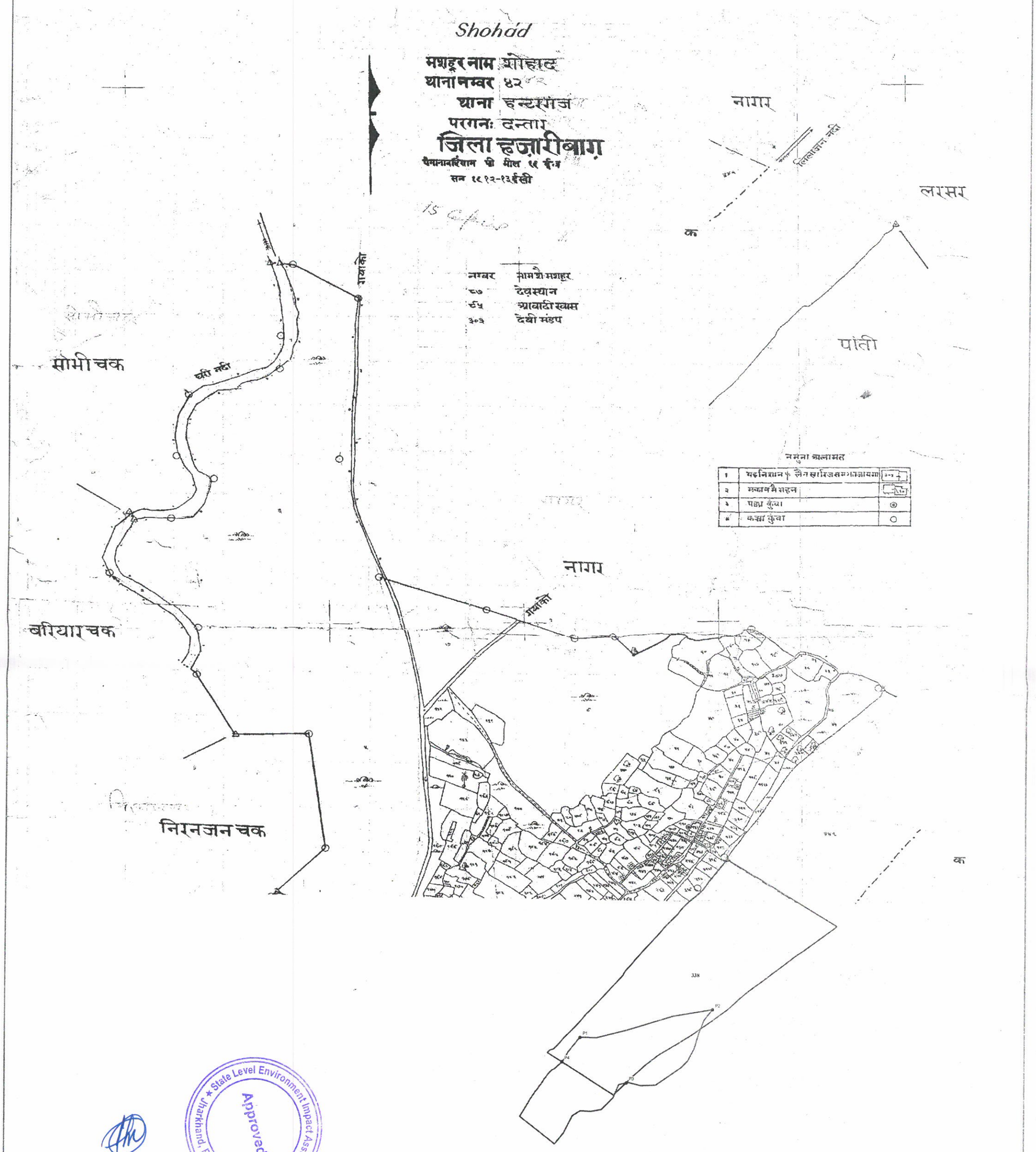
Proposed Area in Ha of 43- 9.43
Proposed Area in Ha of 43A- 3.79

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	275321.2247	2686229.317	24° 16' 22.566" N	84° 47' 12.059" E
P2	275367.9106	2686208.241	24° 16' 21.905" N	84° 47' 13.725" E
P3	275187.5006	2686046.117	24° 16' 16.544" N	84° 47' 7.422" E
P4	275120.891	2686041.027	24° 16' 16.344" N	84° 47' 5.064" E
P5	274910.1524	2685865.546	24° 16' 10.534" N	84° 46' 57.694" E
P6	274933.3882	2685829.923	24° 16' 9.389" N	84° 46' 58.538" E
P7	275032.5013	2685322.931	24° 15' 52.967" N	84° 47' 2.336" E
P8	274851.8876	2685538.427	24° 15' 59.876" N	84° 46' 55.814" E

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★ Approved

Proposed Ghat of PO_CH_HG_LJ_03, Block -Hantarganj, District - Chatra, JHARKHAND



State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★ Approved

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Shohad	42	1	338	River	30.6922	

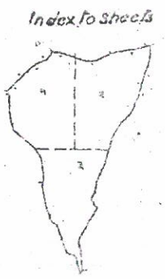
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	279148.8509	2704562.046	24° 26' 20.176" N	84° 49' 17.529" E
P2	279426.6744	2704624.208	24° 26' 22.338" N	84° 49' 27.355" E
P3	279244.2886	2704458.952	24° 26' 16.875" N	84° 49' 20.974" E
P4	279110.2384	2704506.395	24° 26' 18.348" N	84° 49' 16.190" E

Proposed Area in Ha of 03- 4.93

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

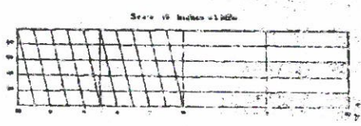
Proposed Ghat of PO_CH_HG_LJ_29, Block -Hantarganj, District - Chatra, JHARKHAND

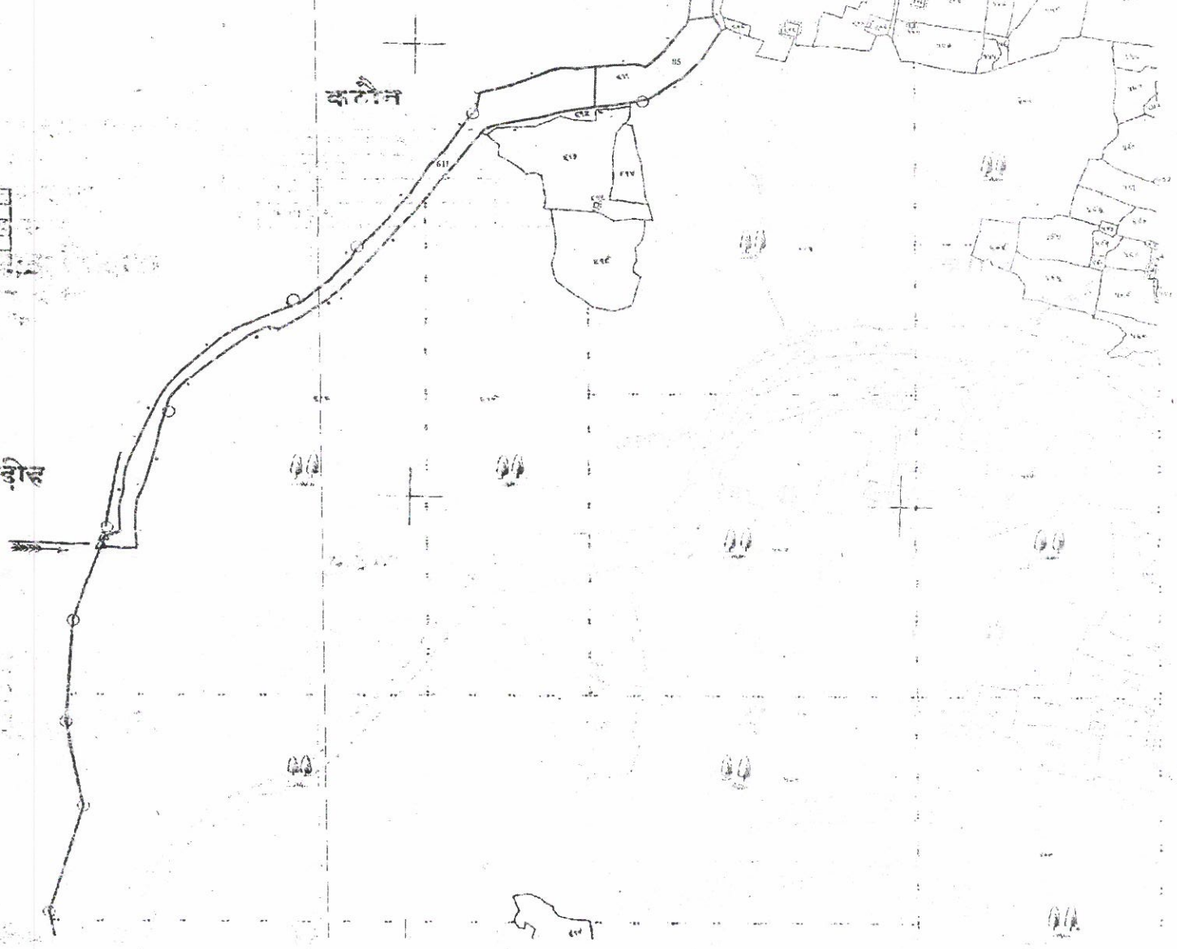


Sijua

मधुर नाम: सिजुआ खाता नम्बर१
थाना नम्बर २२९
थाना हन्टरगंज
परगना: हन्तार
जिला हजारीबाग

१	यथानिर्धारित सीमा सहित सम्पत्ति का	
२	प्रकार का मकान	
३	पक्का कुआं	◉
४	कच्चा कुआं	○





PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	267731.3742	2692464.292	24° 19' 41.149" N	84° 42' 39.425" E
P2	267741.6808	2692468.359	24° 19' 41.287" N	84° 42' 39.788" E
P3	267748.4482	2692459.08	24° 19' 40.989" N	84° 42' 40.053" E
P4	267738.2893	2692451.904	24° 19' 40.750" N	84° 42' 39.677" E
P5	267731.3742	2692464.292	24° 19' 41.149" N	84° 42' 39.425" E
P6	267738.2893	2692451.904	24° 19' 40.750" N	84° 42' 39.677" E
P7	267625.1892	2692306.495	24° 19' 35.906" N	84° 42' 35.752" E
P8	267615.1623	2692323.327	24° 19' 36.507" N	84° 42' 36.387" E

Proposed Area in Ha of 29- 0.39

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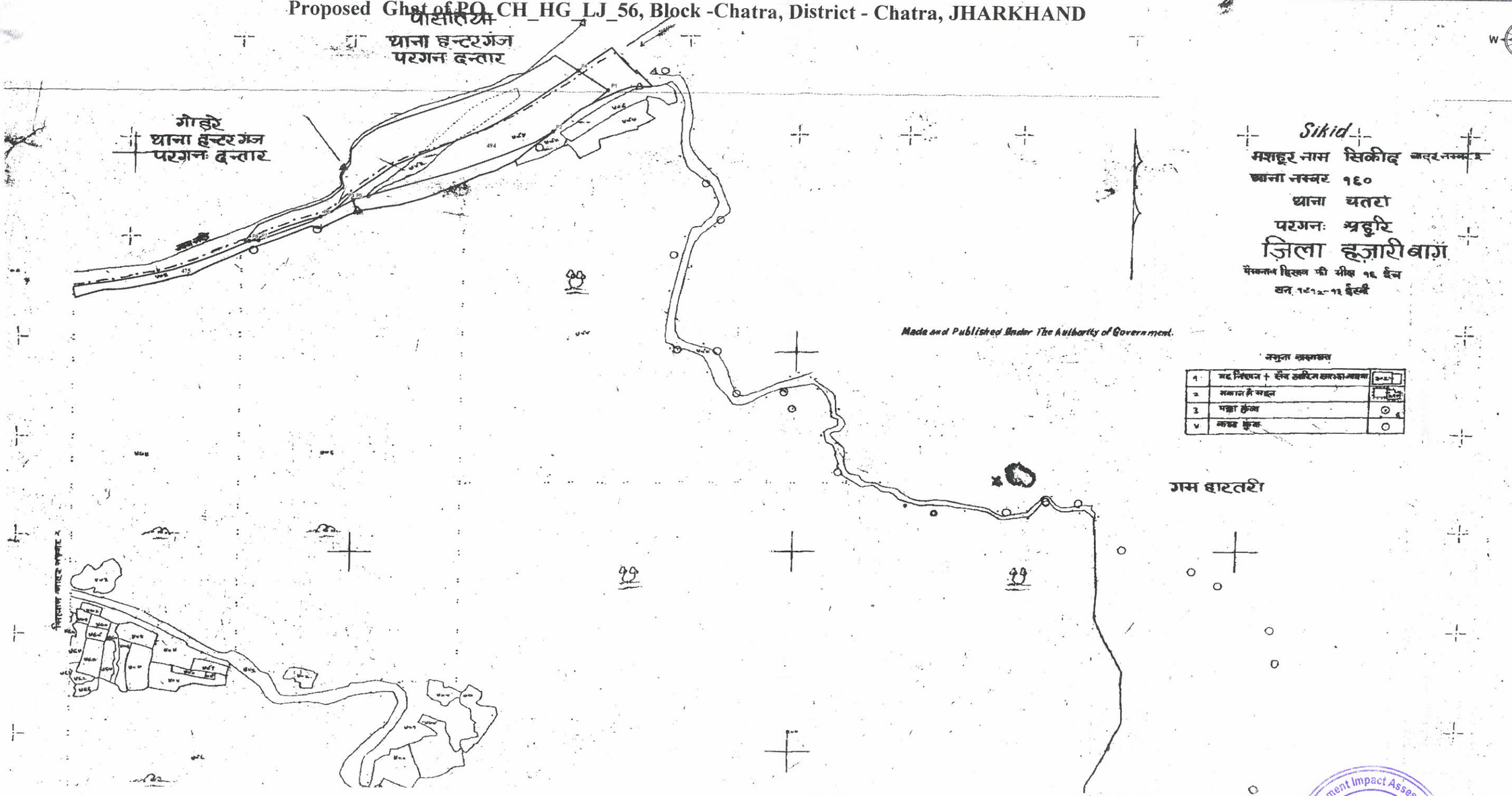
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hantarganj	Sijua	213	1	639	River	1.1964	
Hantarganj	Sijua	229	1	640	River	2.0863	
				TOTAL AREA		3.2827	

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_56, Block -Chatra, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Chatra	Sikid	160	3	494	River	10.4843	
Chatra	Sikid	160	3	475	River	2.3622	
				TOTAL AREA		12.8465	

Proposed Area in Ha of 56- 6.43

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	279881.3862	2686925.172	24° 16' 47.505" N	84° 49' 53.303" E
P2	279781.4007	2686843.066	24° 16' 44.787" N	84° 49' 49.805" E
P3	279417.8394	2686709.182	24° 16' 40.253" N	84° 49' 36.992" E
P4	279827.3694	2686964.75	24° 16' 48.764" N	84° 49' 51.367" E
P5	279417.8394	2686709.182	24° 16' 40.253" N	84° 49' 36.992" E
P6	279358.3653	2686676.797	24° 16' 39.170" N	84° 49' 34.902" E
P7	279245.0375	2686631.132	24° 16' 37.629" N	84° 49' 30.910" E
P8	279228.0324	2686629.566	24° 16' 37.569" N	84° 49' 30.308" E

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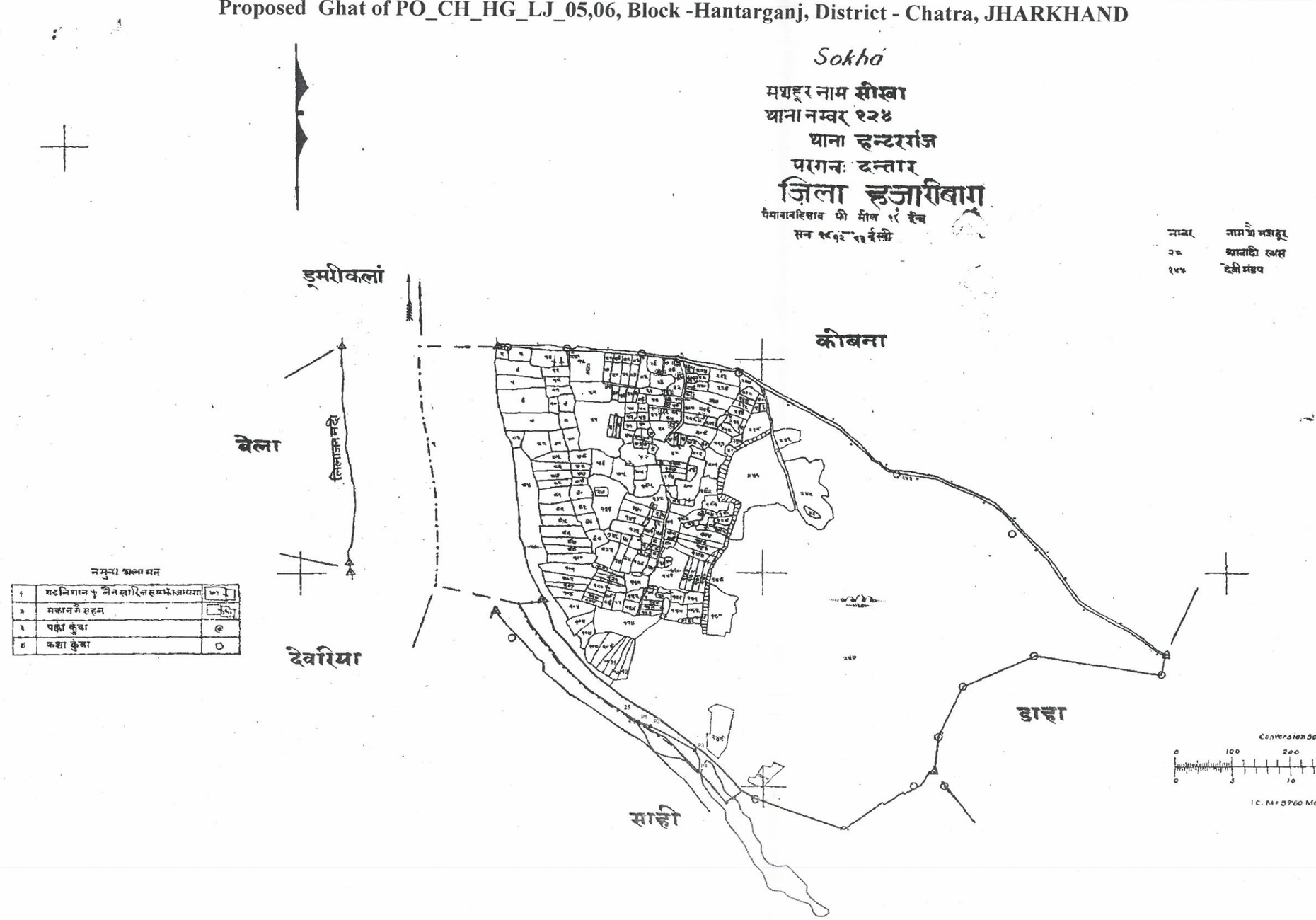
Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_05,06, Block -Hantarganj, District - Chatra, JHARKHAND



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Jharkhand, Ranchi

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Sokha	124	1	25	River	3.6885	
				TOTAL AREA		3.6885	

Proposed Area in Ha of 05- 0.37

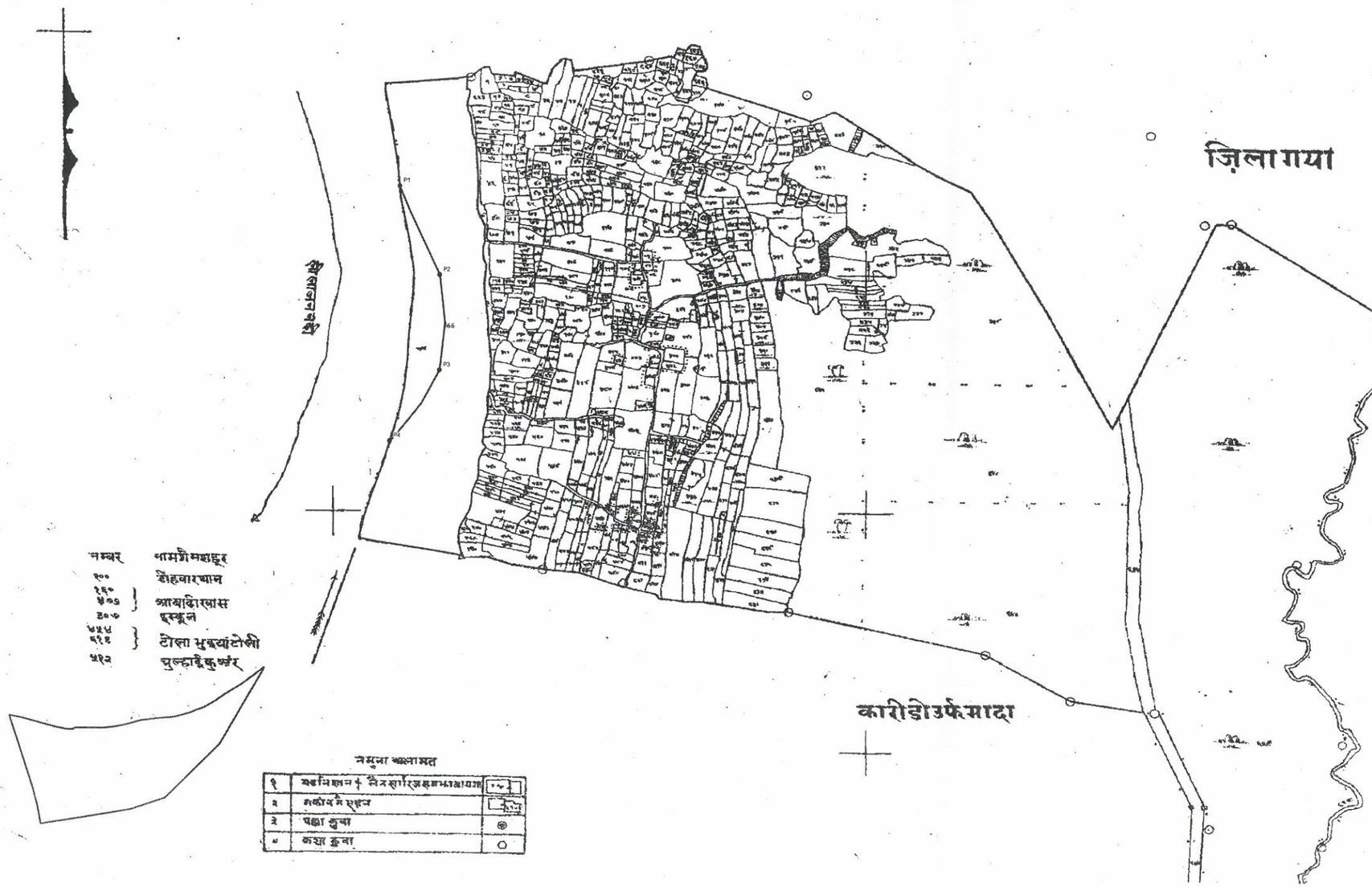
Proposed Area in Ha of 06- 1.02

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	278564.9376	2699097.887	24° 23' 22.342" N	84° 48' 59.862" E
P2	278586.2906	2699088.695	24° 23' 22.055" N	84° 49' 0.625" E
P3	278663.9332	2699042.695	24° 23' 20.600" N	84° 49' 3.405" E
P4	278669.0673	2699003.23	24° 23' 19.320" N	84° 49' 3.609" E

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_01 Block -Hantarganj, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Sugi	101	1	566	River	24.7029	
				TOTAL AREA		24.7029	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	284401.8651	2707405.036	24° 27' 55.204" N	84° 52' 22.412" E
P2	284461.5451	2707255.201	24° 27' 50.365" N	84° 52' 24.612" E
P3	284460.7875	2707095.57	24° 27' 45.178" N	84° 52' 24.672" E
P4	284384.6984	2706977.356	24° 27' 41.299" N	84° 52' 22.036" E

Proposed Area in Ha of 01- 1.37

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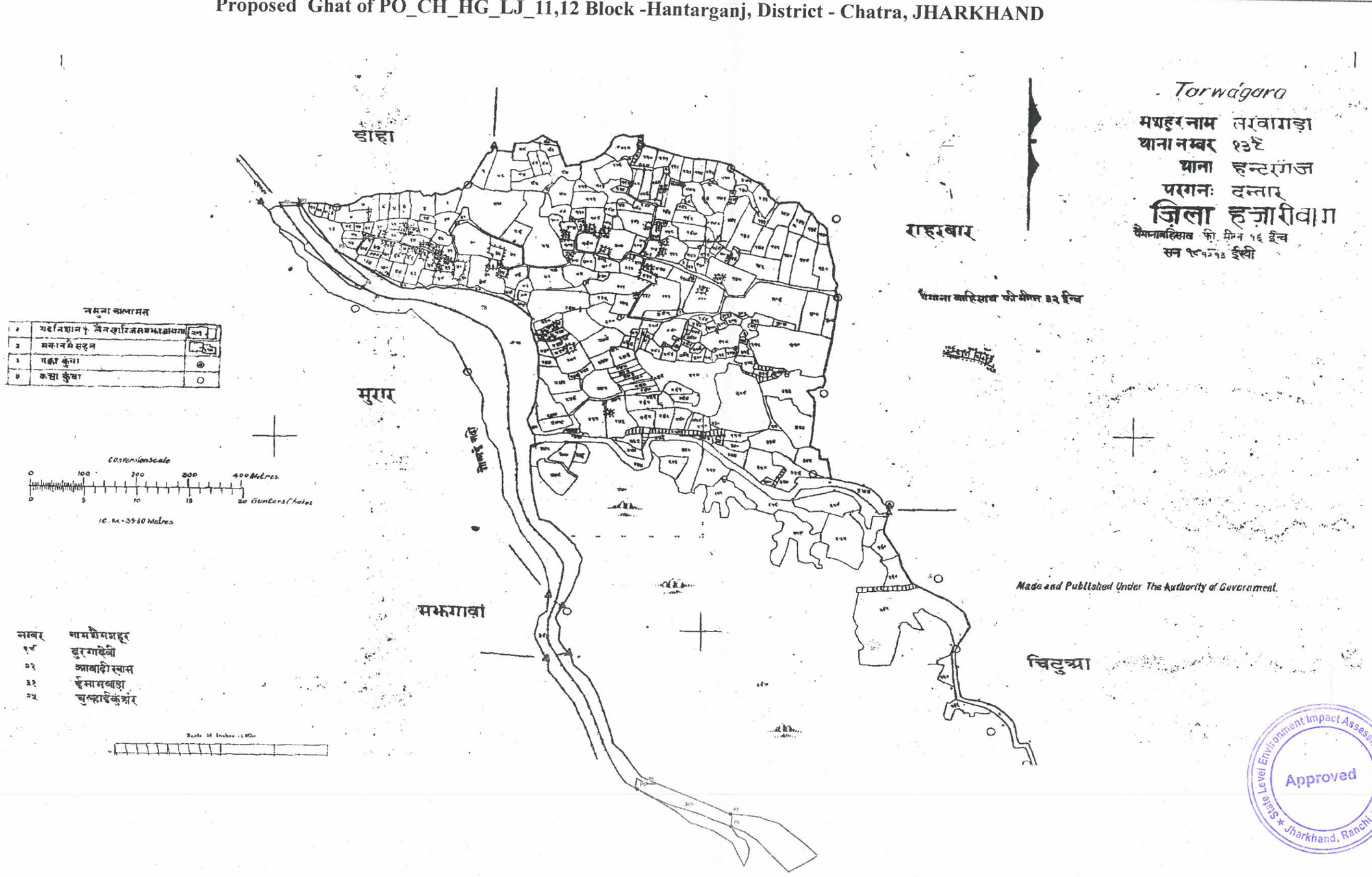
Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_11,12 Block -Hantarganj, District - Chatra, JHARKHAND



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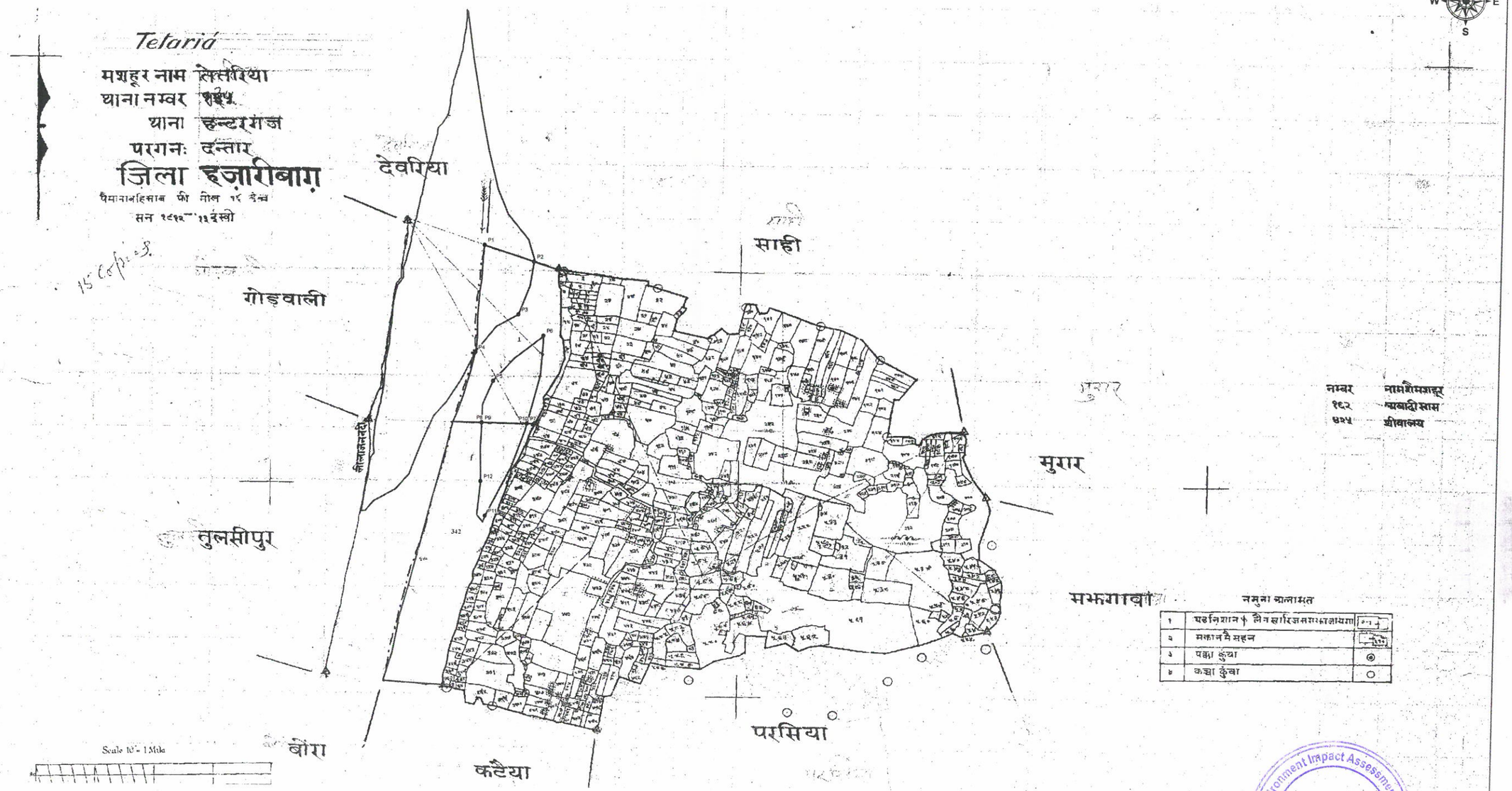
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	279341.999	2698385.109	24° 22' 59.580" N	84° 49' 27.826" E
P2	279372.982	2698386.836	24° 22' 59.652" N	84° 49' 28.924" E
P3	279444.0955	2698291.93	24° 22' 56.605" N	84° 49' 31.500" E
P4	279494.2356	2698215.955	24° 22' 54.162" N	84° 49' 33.321" E
P5	280012.5664	2697172.221	24° 22' 20.513" N	84° 49' 52.287" E
P6	280028.7137	2697183.423	24° 22' 20.885" N	84° 49' 52.853" E
P7	280191.7671	2697120.443	24° 22' 18.922" N	84° 49' 58.672" E
P8	280193.2612	2697094.154	24° 22' 18.068" N	84° 49' 58.740" E

Proposed Area in Ha of 11- 0.85
Proposed Area in Ha of 12- 0.91

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Tarwagara	139	1	369	River	5.1458	
Hunterganj	Tarwagara	139	1	78	River	11.4028	
				TOTAL AREA		16.5486	

Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_14,15 Block -Hantarganj, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	278048.5971	2698551.548	24° 23' 4.327" N	84° 48' 41.850" E
P2	278133.7554	2698519.178	24° 23' 3.319" N	84° 48' 44.889" E
P3	278106.7494	2698418.992	24° 23' 0.050" N	84° 48' 43.987" E
P4	278032.8568	2698347.223	24° 22' 57.680" N	84° 48' 41.406" E
P5	278063.2495	2698292.546	24° 22' 55.919" N	84° 48' 42.515" E
P6	278149.9446	2698378.129	24° 22' 58.744" N	84° 48' 45.543" E
P7	278121.4871	2698210.529	24° 22' 53.284" N	84° 48' 44.627" E
P8	278043.6824	2698213.242	24° 22' 53.333" N	84° 48' 41.865" E
P9	278043.6824	2698213.242	24° 22' 53.333" N	84° 48' 41.865" E
P10	278121.4871	2698210.529	24° 22' 53.284" N	84° 48' 44.627" E
P11	278049.4788	2698035.618	24° 22' 47.564" N	84° 48' 42.170" E
P12	278041.6616	2698101.113	24° 22' 49.688" N	84° 48' 41.856" E

Proposed Area in Ha of 14- 10.67
Proposed Area in Ha of 15- 1.90

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Tetaria	135	1	342	River	13.9118	
Hunterganj	Tetaria	135	1	1	River	11.1934	
				TOTAL AREA		25.1052	

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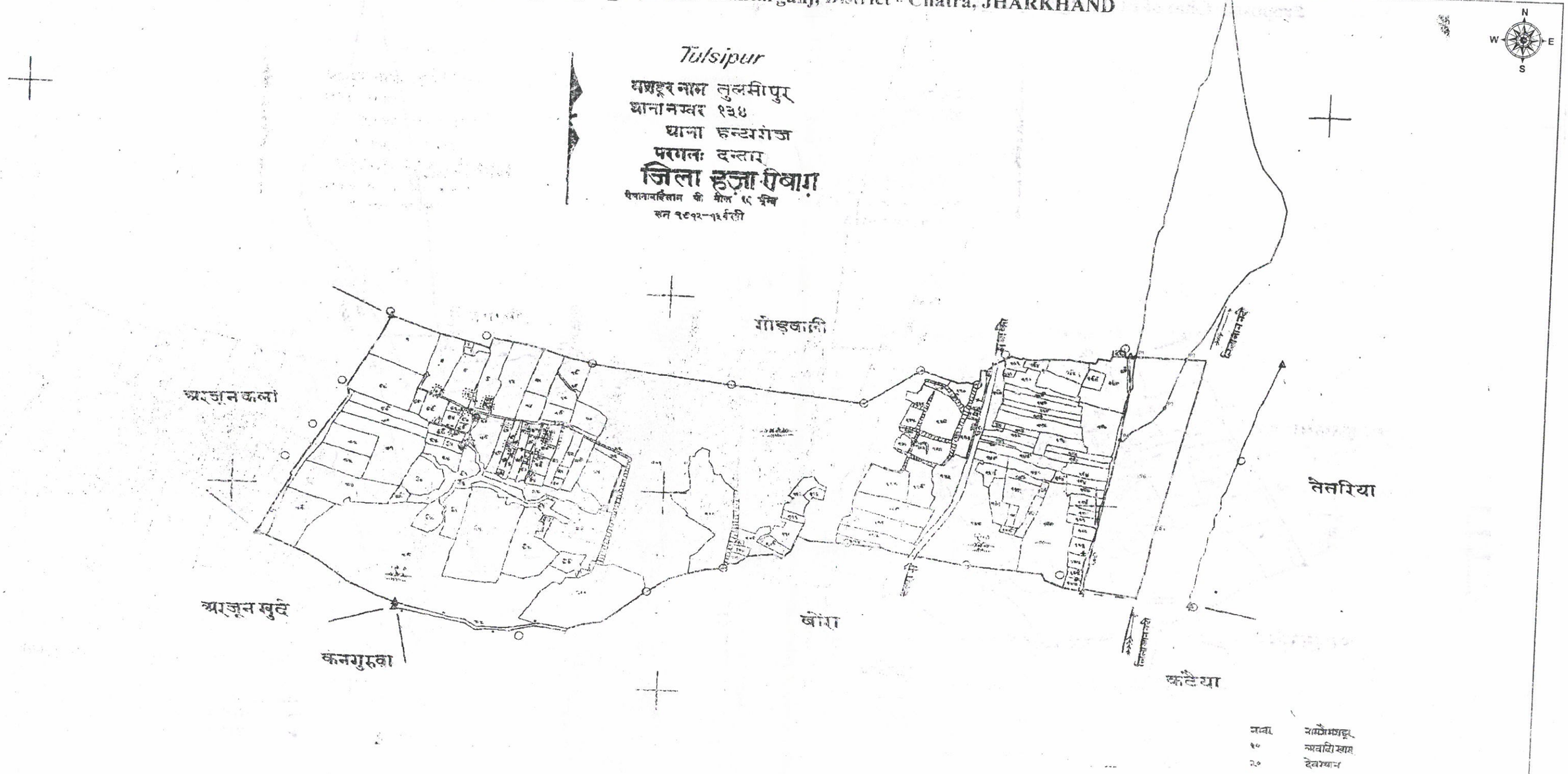
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_14, Block -Hantarganj, District - Chatra, JHARKHAND



नम्बर	नामौ मशहूर
१०	आबादी खास
२०	देवस्थान

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PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	277861.421	2698220.104	24° 22' 53.462" N	84° 48' 35.306" E
P2	[illegible]	2698216.517	24° 22' 53.394" N	84° 48' 38.772" E
P3	[illegible]	[illegible]	24° 22' 50.104" N	84° 48' 37.457" E
P4	[illegible]	[illegible]	24° 22' 47.867" N	84° 48' 34.590" E

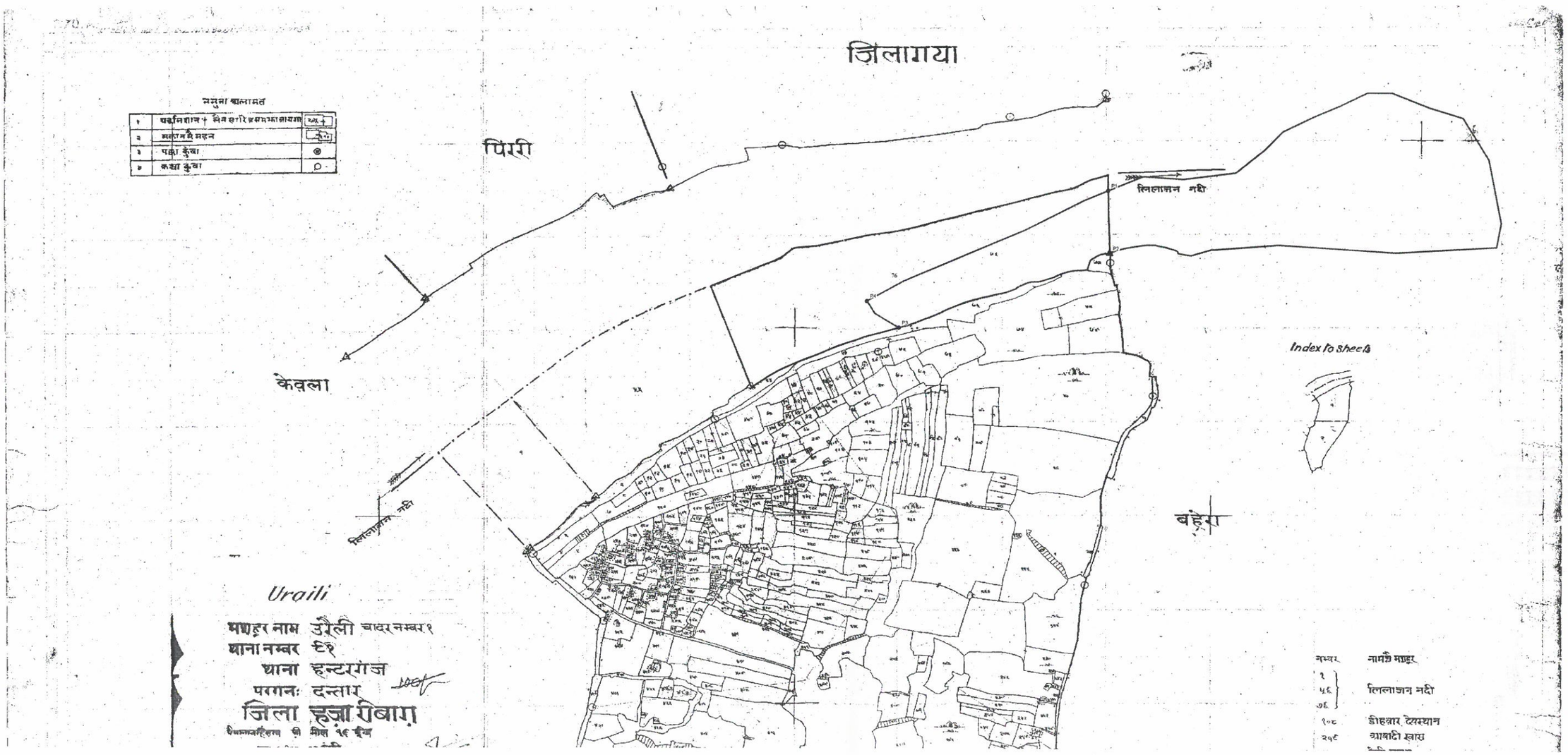
Proposed Area in Ha of 14- 10.67

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	[illegible]	REMARKS
Hantarganj	Tulsipur	134	[illegible]	190	River	[illegible]	
				TOTAL AREA		[illegible]	

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_HG_LJ_1A, Block -Hantarganj, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in Acre	REMARKS
Hunterganj	Uraili	91	1	76	River	38.0707	
				TOTAL AREA		38.0707	

Proposed Area in Ha of 1A- 22.89

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	281823.059	2706149.099	24° 27' 13.100" N	84° 50' 51.562" E
P2	281825.4393	2706013.816	24° 27' 8.706" N	84° 50' 51.721" E
P3	281415.2773	2705858.337	24° 27' 3.447" N	84° 50' 37.249" E
P4	281352.0901	2705916.369	24° 27' 5.300" N	84° 50' 34.974" E

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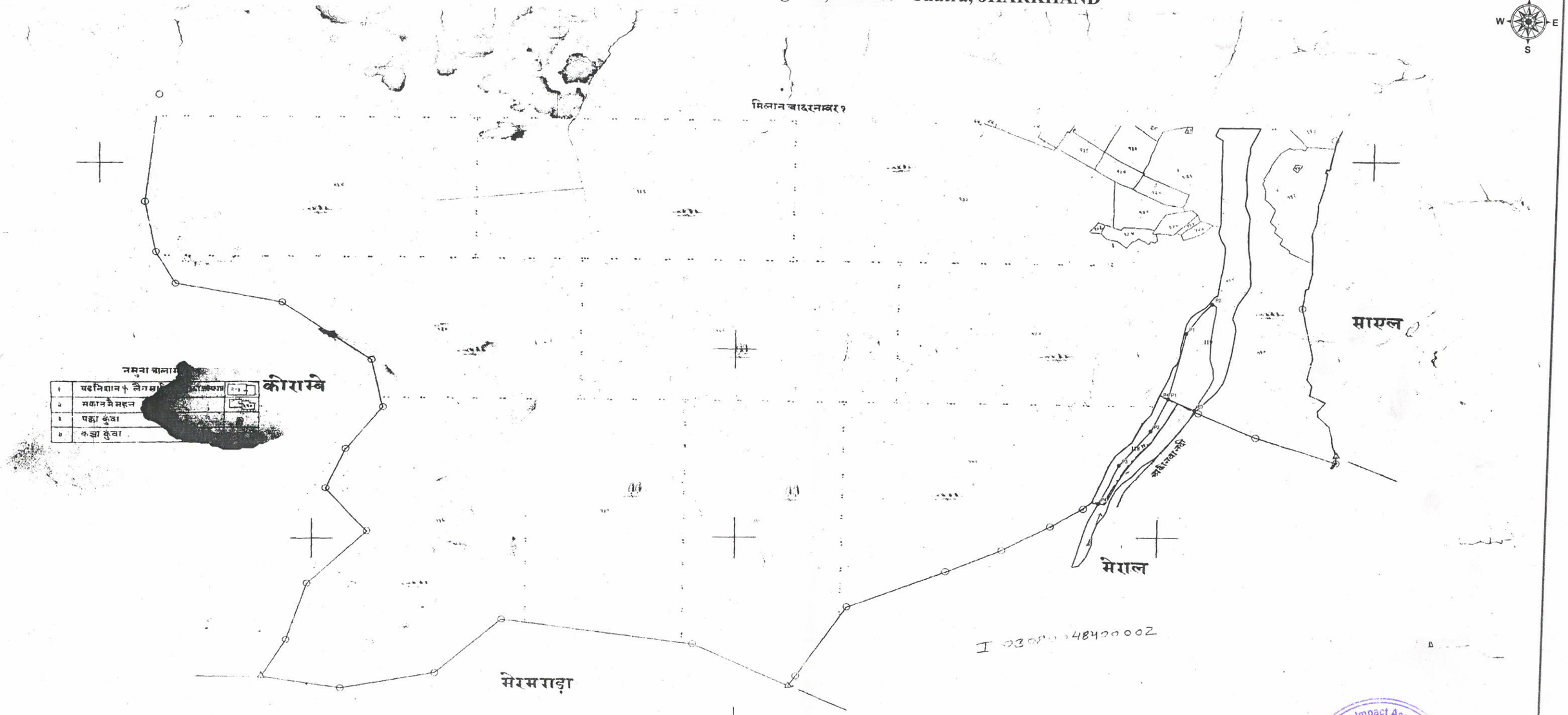
Legend
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Mohna River

Proposed Ghat of PO_CH_PG_MA_69, Block -Pathalgama, District - Chatra, JHARKHAND



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Bahera

मशहूर नाम बहेरा चादरनम्बर २
थाना नम्बर १८२
थाना सिमरिआ
परगनः गोरिआ
ज़िला हज़ारीबाग़
पैमानाबहिसाब फी मील १९ इन्च
सन १९१२-१३ ईस्वी

Scale 16 Inches = 1 Mile

T.W. Bridge.
Superintendent of Survey

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PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	310710.8487	2664630.656	24°4' 57.481" N	85°8' 16.734" E
P2	310678.9971	2664562.783	24°4' 55.261" N	85°8' 15.638" E
P3	310619.3538	2664490.43	24°4' 52.884" N	85°8' 13.561" E
P4	310580.7089	2664410.195	24°4' 50.260" N	85°8' 12.230" E
P1	310743.4383	2664768.84	24°5' 1.986" N	85°8' 17.822" E
P2	310792.038	2664830.776	24°5' 4.019" N	85°8' 19.514" E
P3	310761.4489	2664607.647	24°4' 56.755" N	85°8' 18.535" E
P4	310710.8487	2664630.656	24°4' 57.481" N	85°8' 16.734" E

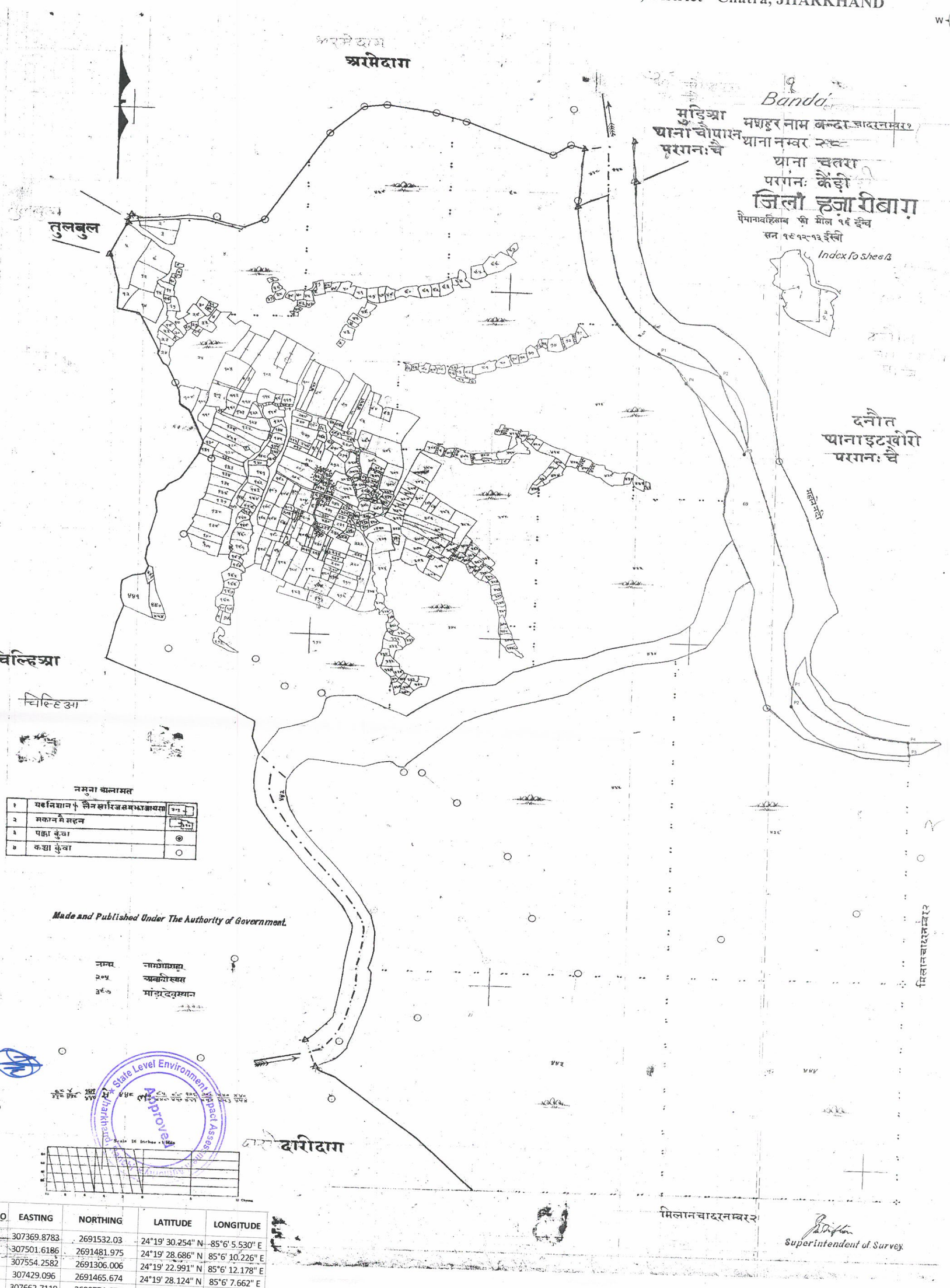
BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
PATHALGAMA	BAHERA	182	2	118	RIVER	1.9656	
PATHALGAMA	BAHERA	182	2	119	RIVER	9.6428	
					TOTAL AREA	11.6084	

Proposed Area in Ha of 69- 2.33

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PG_MA_01,PO_CH_IK_MA_02, Block -Chatra, District - Chatra, JHARKHAND

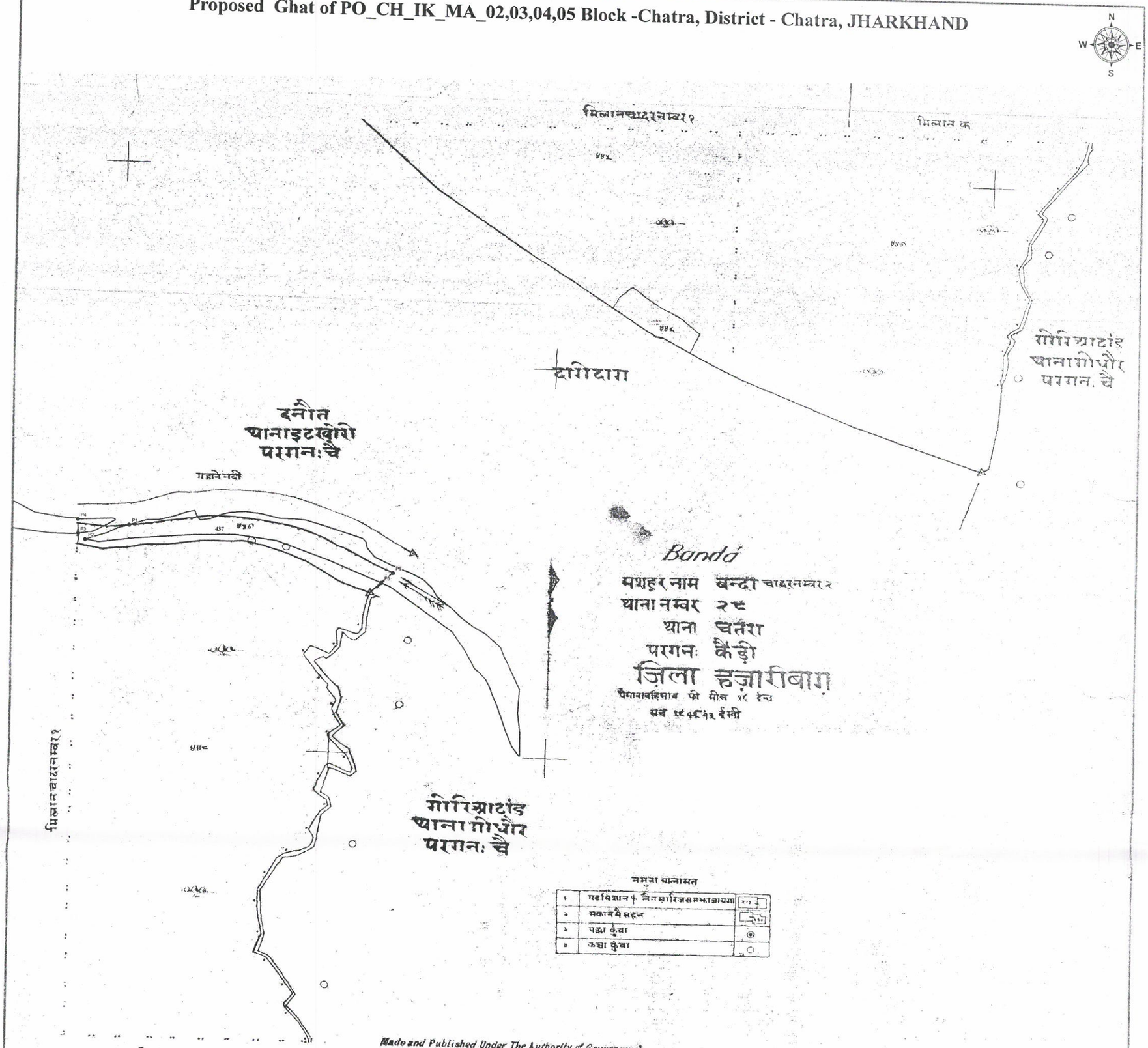


PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	307369.8783	2691532.03	24°19' 30.254" N	85°6' 5.530" E
P2	307501.6186	2691481.975	24°19' 28.686" N	85°6' 10.226" E
P3	307554.2582	2691306.006	24°19' 22.991" N	85°6' 12.178" E
P4	307429.096	2691465.674	24°19' 28.124" N	85°6' 7.662" E
P1	307662.7119	2690774.671	24°19' 5.772" N	85°6' 16.281" E
P2	307661.0337	2690732.511	24°19' 4.401" N	85°6' 16.242" E
P3	307913.3856	2690626.341	24°19' 1.063" N	85°6' 25.242" E
P4	307912.5924	2690656.032	24°19' 2.027" N	85°6' 25.200" E

Proposed Area in Ha of 01- 1.20
Proposed Area in Ha of 02- 1.83

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
CHATRA	BANDA	28	-	69	RIVER	24.7664	
				TOTAL AREA		24.7664	

Proposed Ghat of PO_CH_IK_MA_02,03,04,05 Block -Chatra, District - Chatra, JHARKHAND



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PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	308009.2303	2690645.024	24°19' 1.712" N	85°6' 28.632" E
P2	307926.3617	2690614.164	24°19' 0.673" N	85°6' 25.708" E
P3	307554.2582	2691306.006	24°19' 22.991" N	85°6' 12.178" E
P4	307429.096	2691465.674	24°19' 28.124" N	85°6' 7.662" E
P5	308484.3198	2690531.255	24° 18' 58.225" N	85° 6' 45.535" E
P6	308506.4393	2690552.267	24° 18' 58.918" N	85° 6' 46.309" E

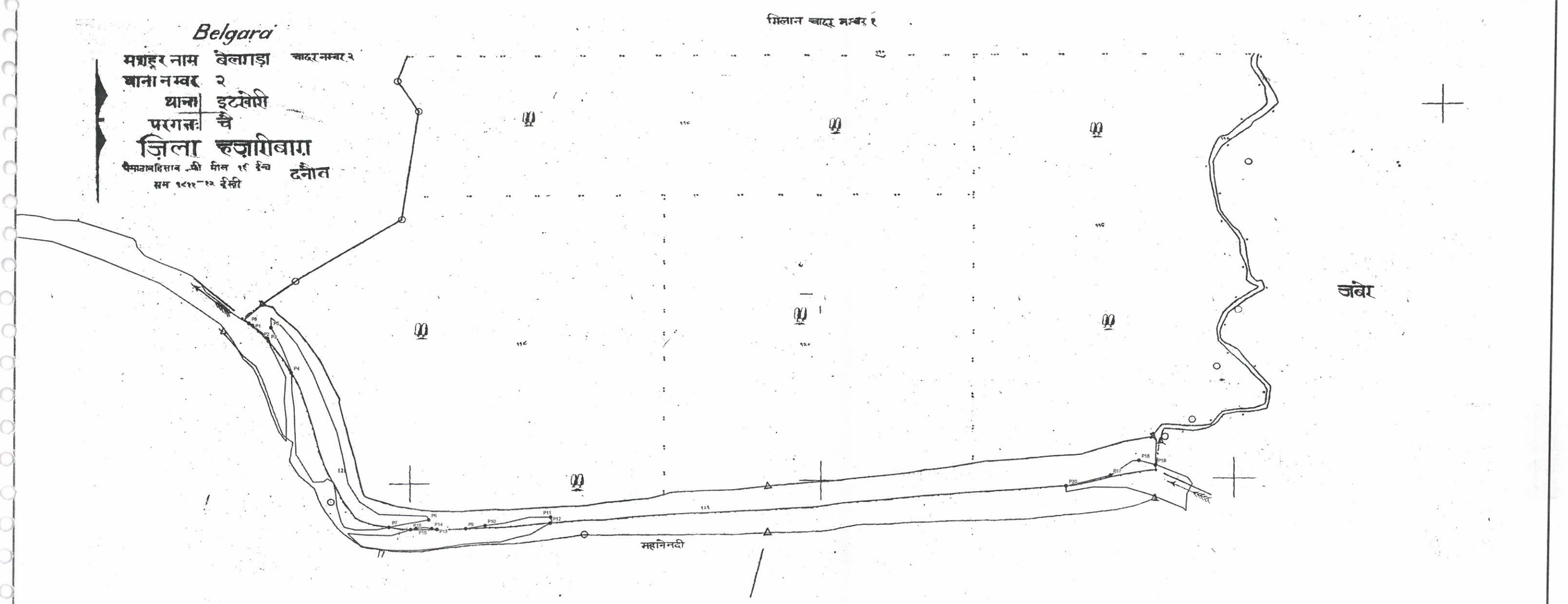
Proposed Area in Ha of 02- 1.83
Proposed Area in Ha of 03,04,05 - 4.54

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
CHATRA	BANDA	28	2	437	RIVER	7.595	
				TOTAL AREA		7.595	

Legend

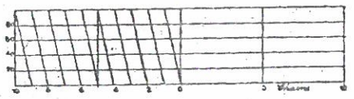
- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_IK_MA_03-,04-05,06,07,08 Block - Itkhori, District - Chatra, JHARKHAND



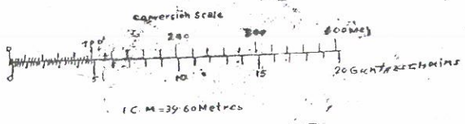
PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	308682.2539	2690430.314	24°18' 55.032" N	85°6' 52.603" E
P2	308711.5858	2690401.711	24°18' 54.115" N	85°6' 53.656" E
P3	308713.4055	2690396.286	24°18' 53.940" N	85°6' 53.724" E
P4	308758.1032	2690326.624	24°18' 51.696" N	85°6' 55.342" E
P5	308718.5955	2690425.009	24°18' 54.876" N	85°6' 53.894" E
P6	309024.1709	2690005.358	24°18' 41.373" N	85°7' 4.931" E
P7	308946.1204	2689990.405	24°18' 40.852" N	85°7' 2.171" E
P8	308674.711	2690435.022	24°18' 55.182" N	85°6' 52.333" E
P9	309097.6717	2689985.603	24°18' 40.763" N	85°7' 7.547" E
P10	309136.5552	2689991.682	24°18' 40.978" N	85°7' 8.923" E
P11	309265.6357	2690008.202	24°18' 41.571" N	85°7' 13.493" E
P12	309264.6295	2689995.776	24°18' 41.167" N	85°7' 13.463" E
P13	309040.3313	2689984.489	24°18' 40.701" N	85°7' 5.515" E
P14	309030.2164	2689986.616	24°18' 40.766" N	85°7' 5.155" E
P15	308999.0375	2689987.977	24°18' 40.797" N	85°7' 4.049" E
P16	308988.2626	2689984.545	24°18' 40.680" N	85°7' 3.668" E
P20	310279.1591	2690065.19	24°18' 43.867" N	85°7' 49.406" E
P17	310366.0001	2690087.771	24°18' 44.639" N	85°7' 52.475" E
P18	310421.2612	2690119.007	24°18' 45.678" N	85°7' 54.420" E
P19	310454.0777	2690109.454	24°18' 45.382" N	85°7' 55.588" E

Scale 16" = 1 Mile



नमुना अलामत

१	यह निशान ↑ लैन खारिज समझा जाय गा	
२	मकान मे सहन	
३	पक्का कुंवा	◉
४	कच्चा कुंवा	○



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Superintendent of Survey.

State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi

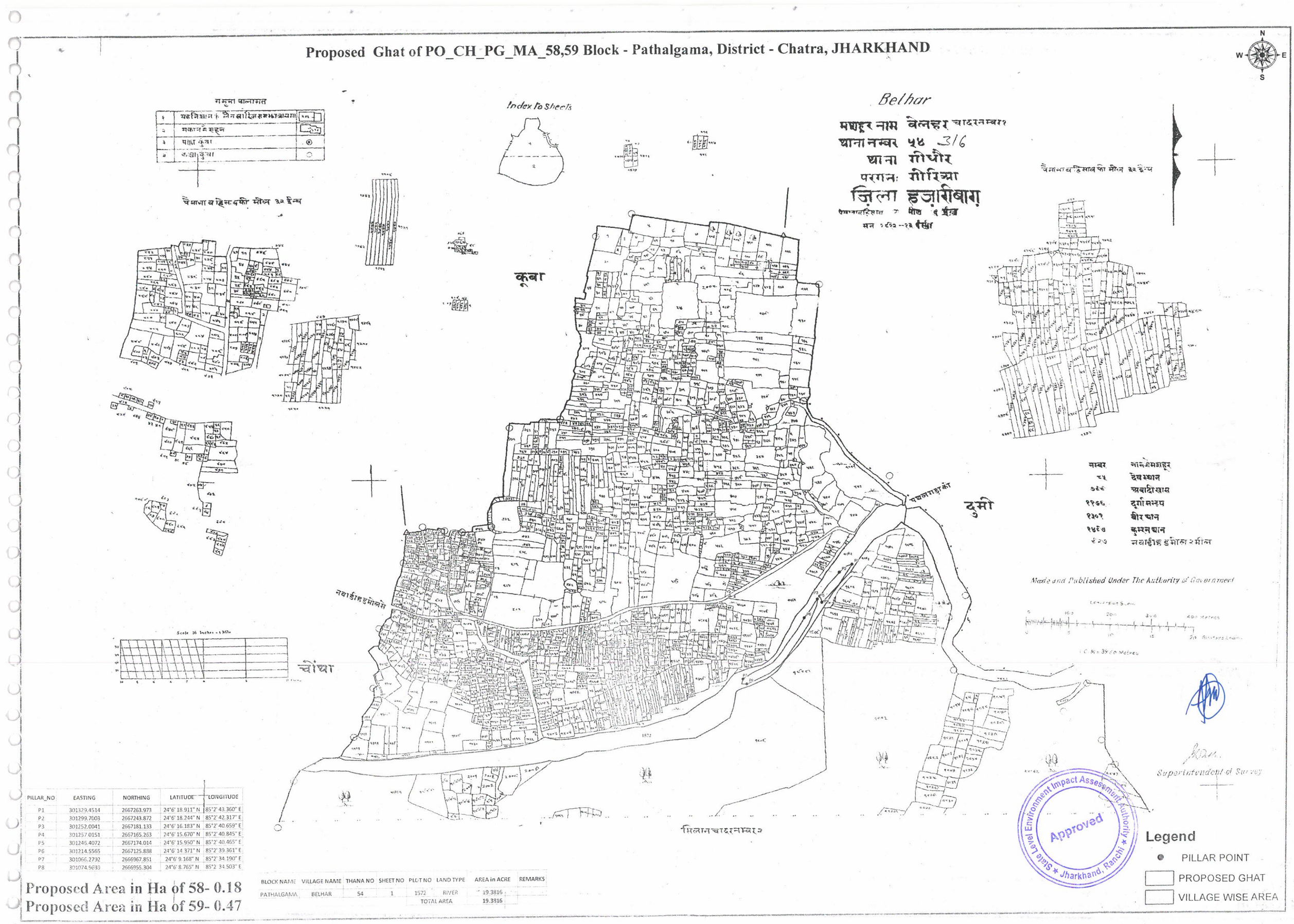
Proposed Area in Ha of 03-04-05- 4.54
Proposed Area in Ha of 06- 2.76
Proposed Area in Ha of 07- 1.36
Proposed Area in Ha of 08- 1.07

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
ITKHORI	BELGARA	2	2	121	RIVER	26.3694	
				TOTAL AREA		26.3694	

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_PG_MA_58,59 Block - Pathalgama, District - Chatra, JHARKHAND

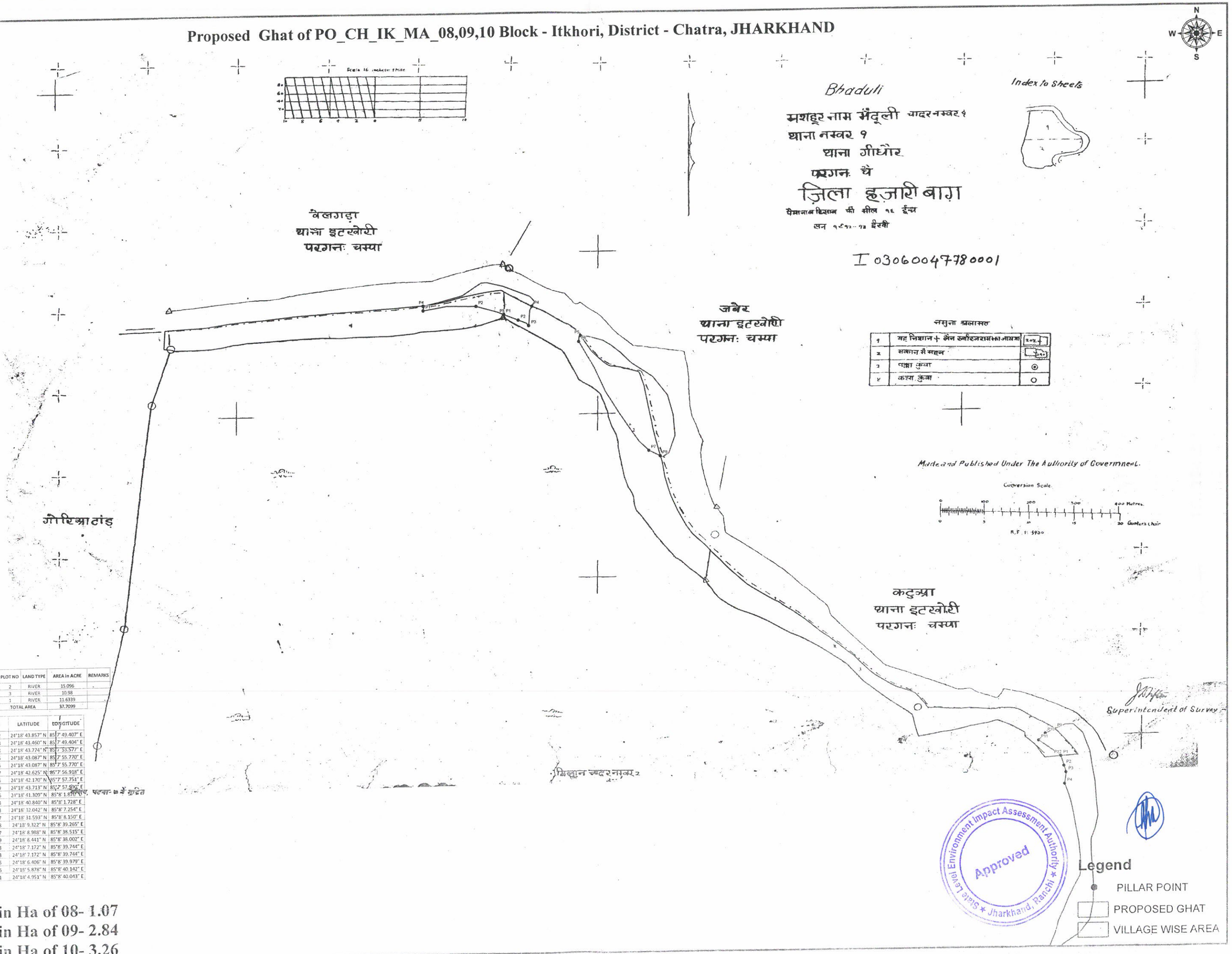


PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	301329.4514	2667263.973	24°6' 18.911" N	85°2' 43.360" E
P2	301299.7003	2667243.872	24°6' 18.244" N	85°2' 42.317" E
P3	301252.0041	2667181.133	24°6' 16.183" N	85°2' 40.659" E
P4	301257.0151	2667165.263	24°6' 15.670" N	85°2' 40.845" E
P5	301246.4072	2667174.014	24°6' 15.950" N	85°2' 40.465" E
P6	301214.5565	2667125.888	24°6' 14.371" N	85°2' 39.361" E
P7	301066.2732	2666967.851	24°6' 9.168" N	85°2' 34.190" E
P8	301074.9633	2666955.304	24°6' 8.765" N	85°2' 34.503" E

Proposed Area in Ha of 58- 0.18
Proposed Area in Ha of 59- 0.47

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
PATHALGAMA	BELHAR	54	1	1572	RIVER	19.3816	
				TOTAL AREA		19.3816	

Proposed Ghat of PO_CH_IK_MA_08,09,10 Block - Itkhori, District - Chatra, JHARKHAND

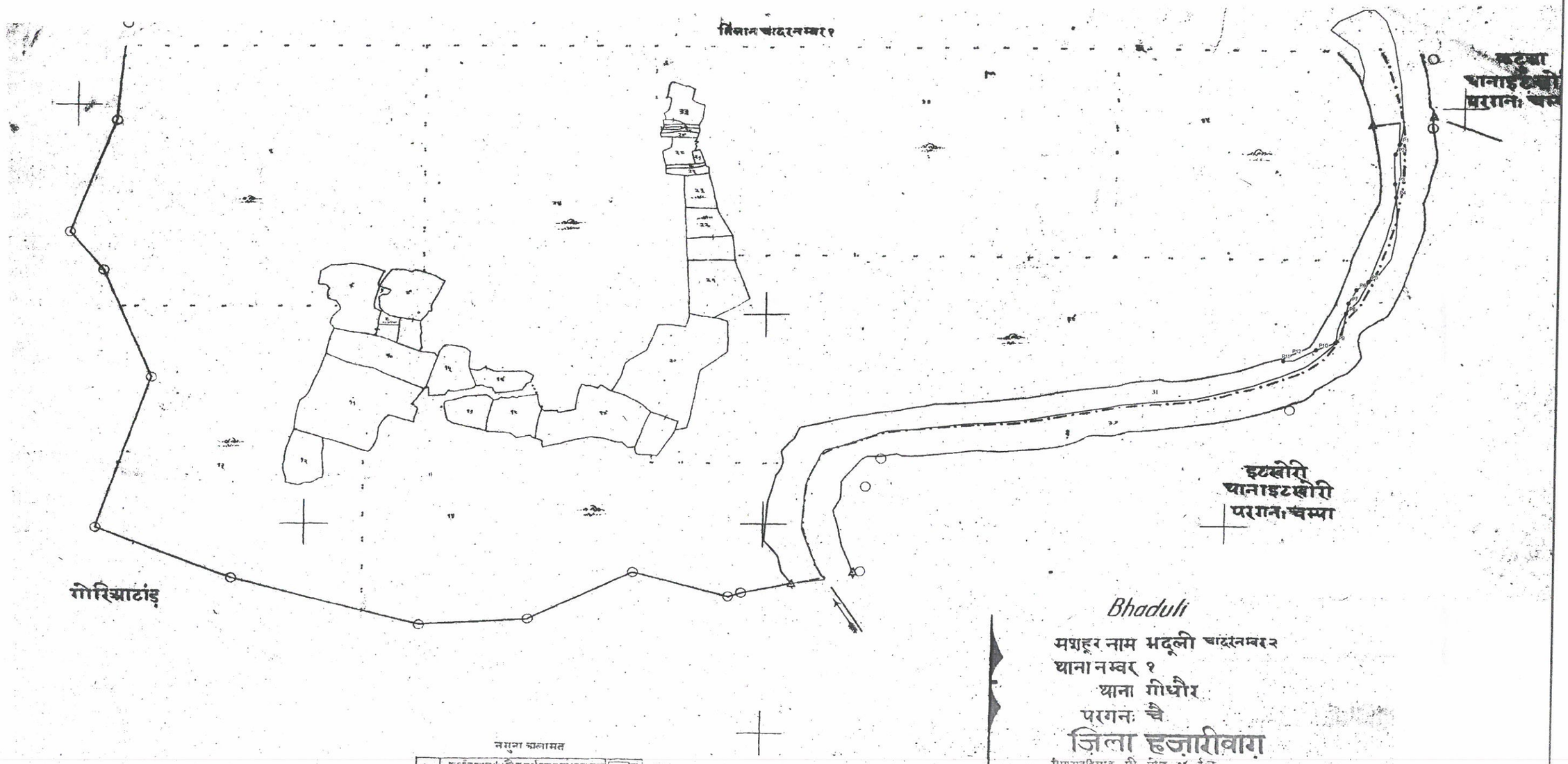


BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
ITKHORI	BHADULI	1	1	2	RIVER	15.096	-
ITKHORI	BHADULI	1	1	3	RIVER	10.98	
ITKHORI	BHADULI	1	1	1	RIVER	11.6339	-
				TOTAL AREA		37.7099	

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P4	310279.1799	2690064.872	24°18' 43.857" N	85°7' 49.407" E
P1	310278.9268	2690052.668	24°18' 43.460" N	85°7' 49.404" E
P2	310396.7049	2690060.758	24°18' 43.774" N	85°7' 53.577" E
P3	310458.2542	2690038.795	24°18' 43.087" N	85°7' 55.770" E
P1	310458.2542	2690038.795	24°18' 43.087" N	85°7' 55.770" E
P2	310490.4304	2690024.127	24°18' 42.625" N	85°7' 56.918" E
P3	310513.7167	2690009.835	24°18' 42.170" N	85°7' 57.751" E
P4	310521.1063	2690057.199	24°18' 43.713" N	85°7' 57.990" E
P5	310629.5009	2689981.786	24°18' 41.309" N	85°8' 1.870" E
P6	310625.2987	2689967.394	24°18' 40.840" N	85°8' 1.728" E
P7	310777.487	2689694.633	24°18' 32.042" N	85°8' 7.254" E
P8	310802.5777	2689680.467	24°18' 31.593" N	85°8' 8.150" E
P9	311670.7284	2688983.558	24°18' 9.322" N	85°8' 39.265" E
P10	311649.4418	2688973.587	24°18' 8.988" N	85°8' 38.515" E
P11	311634.7454	2688956.939	24°18' 8.441" N	85°8' 38.002" E
P12	311683.3358	2688917.243	24°18' 7.172" N	85°8' 39.744" E
P1	311683.3358	2688917.243	24°18' 7.172" N	85°8' 39.744" E
P2	311689.6681	2688893.585	24°18' 6.406" N	85°8' 39.979" E
P3	311694.0332	2688877.276	24°18' 5.878" N	85°8' 40.142" E
P4	311690.8532	2688848.801	24°18' 4.951" N	85°8' 40.043" E

Proposed Area in Ha of 08- 1.07
Proposed Area in Ha of 09- 2.84
Proposed Area in Ha of 10- 3.26

Proposed Ghat of PO_CH_IK_MA_10 Block - Itkhori, District - Chatra, JHARKHAND



नमूना अलामत

१	मकानिशान पं नेत्रहारिजलमभाआयतन	
२	मकानमे मदन	
३	पक्का कुंवा	◉
४	कच्चा कुंवा	○

Conversion Scale.

0 100 200 300 400 Metres.

0 5 10 15 20 Gunter's chains.

R.F. 1: 3960

Scale 16 inches to a mile

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	311754.6902	2688734.362	24°18' 1.260" N	85°8' 42.360" E
P2	311747.8287	2688715.514	24°18' 0.644" N	85°8' 42.126" E
P3	311747.8982	2688658.11	24°17' 58.779" N	85°8' 42.156" E
P4	311749.5866	2688632.456	24°17' 57.946" N	85°8' 42.228" E
P5	311701.9594	2688468.758	24°17' 52.605" N	85°8' 40.616" E
P6	311680.8401	2688453.406	24°17' 52.097" N	85°8' 39.875" E
P7	311667.2705	2688427.525	24°17' 51.250" N	85°8' 39.406" E
P8	311662.9087	2688407.454	24°17' 50.596" N	85°8' 39.260" E
P9	311644.1288	2688350.986	24°17' 48.753" N	85°8' 38.621" E
P10	311609.8727	2688336.592	24°17' 48.270" N	85°8' 37.413" E
P11	311551.4221	2688316.048	24°17' 47.577" N	85°8' 35.351" E
P12	311561.9454	2688325.94	24°17' 47.903" N	85°8' 35.719" E

Proposed Area in Ha of 10- 3.26

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
ITKHORI	BHADULI	1	2	31	RIVER	17.4578	
				TOTAL AREA		17.4578	

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मिहारसर्वेक्षण कार्यालय पटना - ७ में मुद्रित

Superintendent of Survey

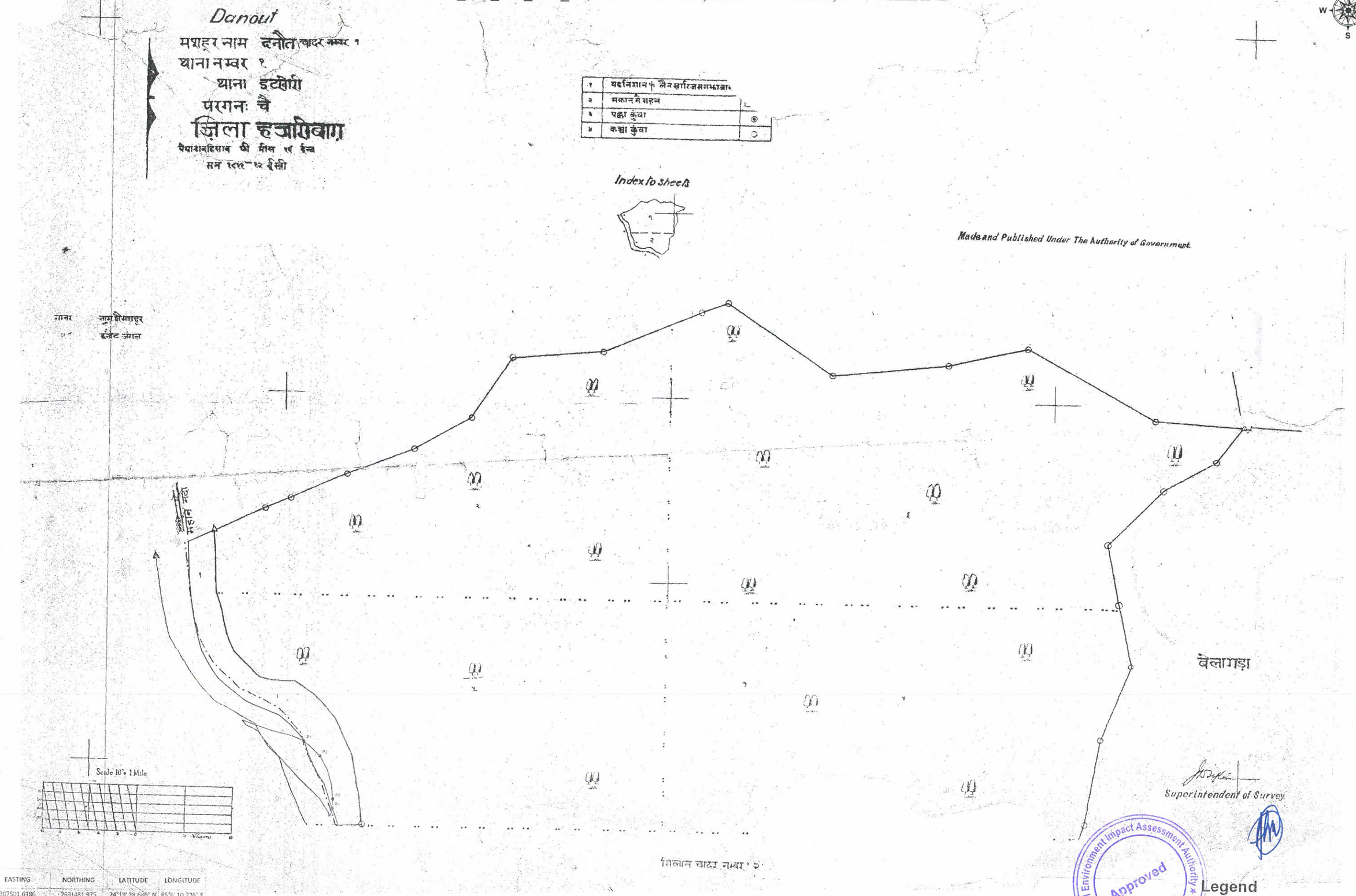
State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★

Approved

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_KC_MA_01, Block - Itkhori, District - Chatra, JHARKHAND

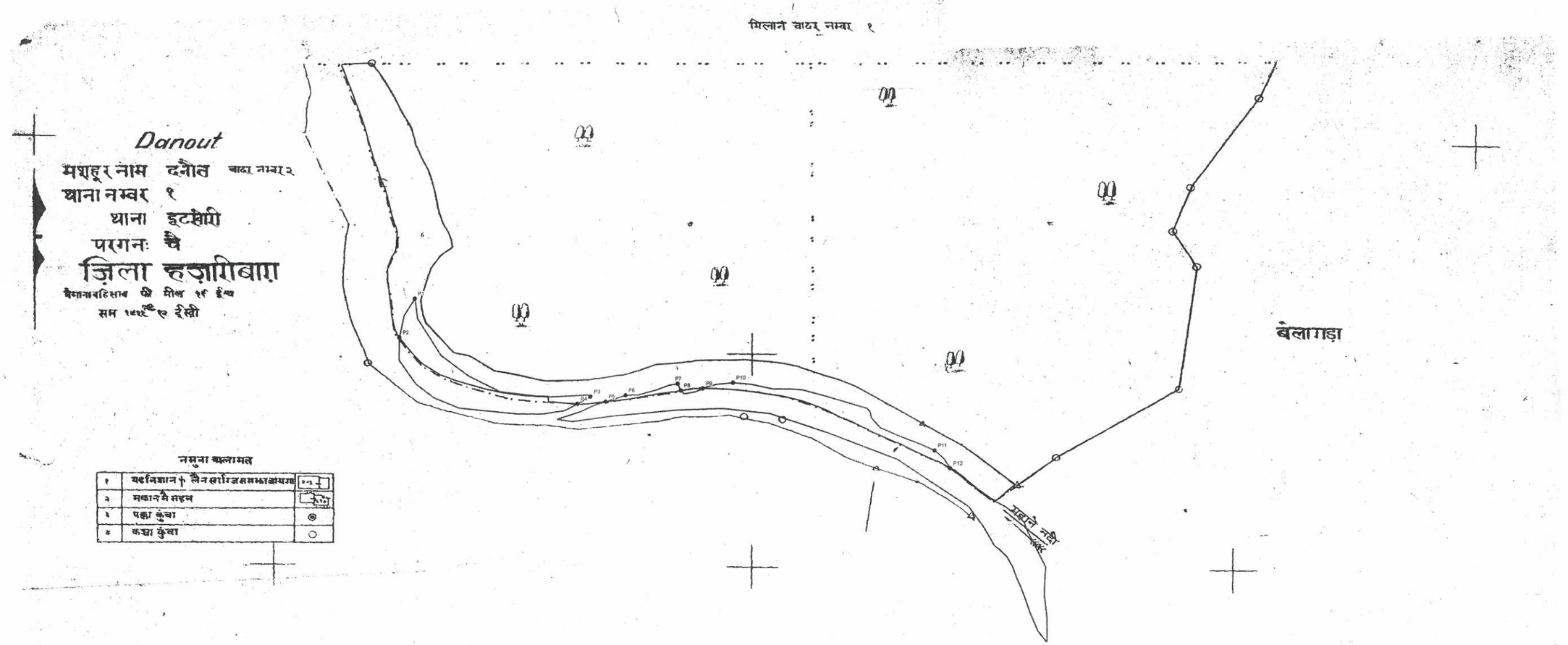


PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	307501.6186	2691481.975	24°19' 28.686" N	85°6' 10.226" E
P2	307535.0974	2691446.78	24°19' 27.557" N	85°6' 11.431" E
P3	307562.6575	2691346.427	24°19' 24.308" N	85°6' 12.456" E
P4	307560.9266	2691325.007	24°19' 23.611" N	85°6' 12.405" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
ITKHORI	DANOUT	1	1	1	RIVER	13.4077	
				TOTAL AREA		13.4077	

Proposed Area in Ha of 01- 1.20

Proposed Ghat of PO_CH_IK_MA_02,03,04,05, Block - Itkhori, District - Chatra, JHARKHAND



PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	307689.9604	2690846.404	24°19' 8.115" N	85°6' 17.213" E
P2	307662.7119	2690774.671	24°19' 5.772" N	85°6' 16.281" E
P3	307984.1042	2690655.087	24°19' 2.028" N	85°6' 27.736" E
P4	307961.3926	2690642.043	24°19' 1.594" N	85°6' 26.936" E
P5	308009.2303	2690645.024	24°19' 1.712" N	85°6' 28.632" E
P6	308043.6391	2690656.16	24°19' 2.090" N	85°6' 29.847" E
P7	308132.9012	2690675.753	24°19' 2.766" N	85°6' 33.003" E
P8	308137.8669	2690662.834	24°19' 2.348" N	85°6' 33.185" E
P9	308175.5903	2690665.334	24°19' 2.446" N	85°6' 34.522" E
P10	308227.0737	2690674.742	24°19' 2.774" N	85°6' 36.343" E
P11	308564.1911	2690538.945	24°18' 58.510" N	85°6' 48.364" E
P12	308589.839	2690505.039	24°18' 57.420" N	85°6' 49.209" E

BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
ITKHORI	DANOUT	1	2	6	RIVER	22.6295	
					TOTAL AREA	22.6295	

Proposed Area in Ha of 02- 1.83

Proposed Area in Ha of 03-04-05- 4.54

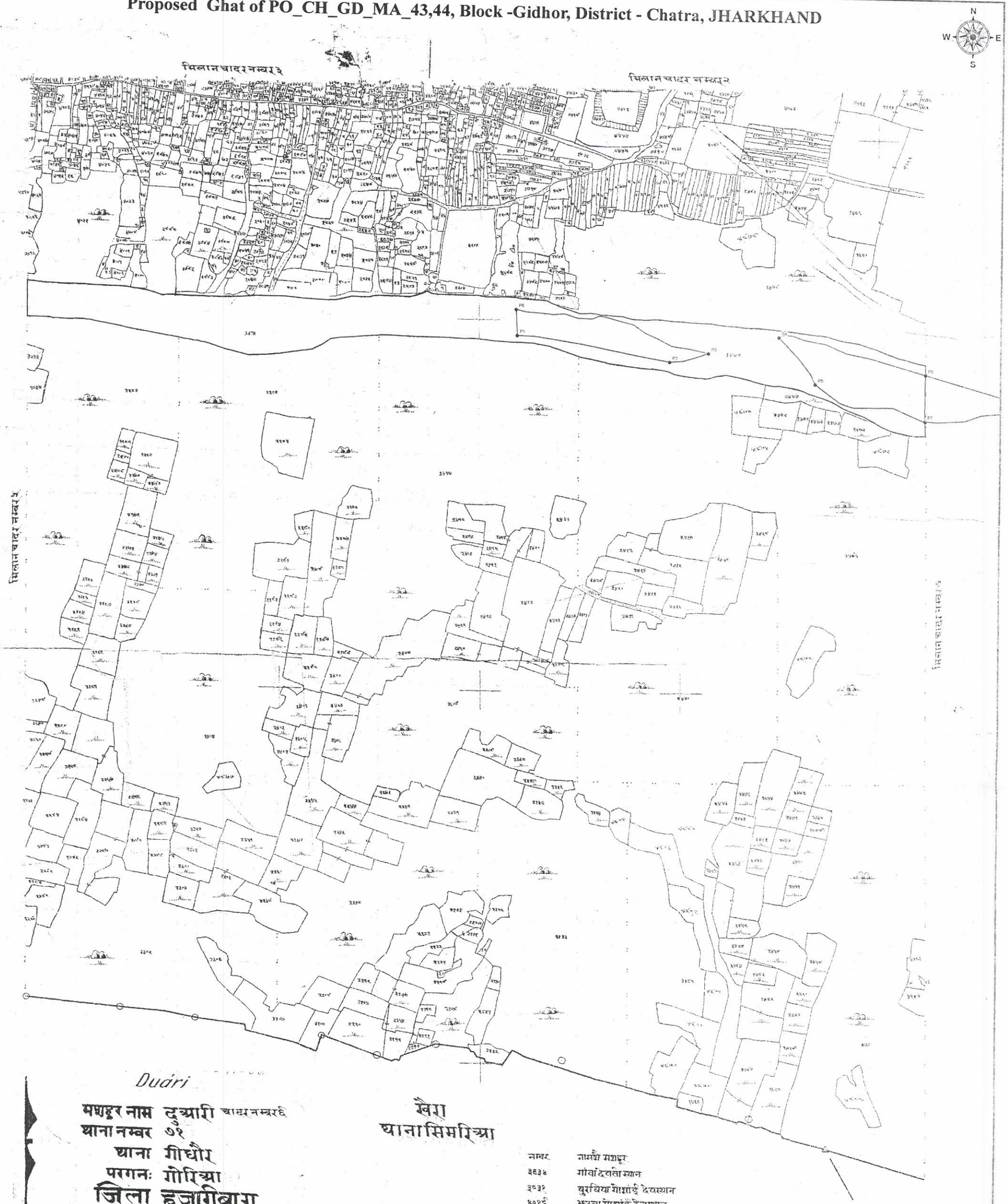
Superintendent of Survey

State Level Environment Impact Assessment Authority * Jharkhand, Ranchi * Approved

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Proposed Ghat of PO_CH_GD_MA_43,44, Block -Gidhor, District - Chatra, JHARKHAND



BLOCK NAME	VILLAGE NAME	THANA NO	SHEET NO	PLOT NO	LAND TYPE	AREA in ACRE	REMARKS
GIDHOR	Duari	71	6	3478	RIVER	48.6724	
				TOTAL AREA		48.6724	

Proposed Area in Ha of 43- 3.93
Proposed Area in Ha of 44 -1.98

PILLAR_NO	EASTING	NORTHING	LATITUDE	LONGITUDE
P1	311905.4221	2669750.375	24°7' 44.379" N	85°8' 56.627" E
P2	312214.8548	2669692.981	24°7' 42.646" N	85°9' 7.612" E
P3	312294.3917	2669712.892	24°7' 43.327" N	85°9' 10.419" E
P4	312437.7982	2669748.684	24°7' 44.552" N	85°9' 15.480" E
P5	312511.1553	2669645.293	24°7' 41.223" N	85°9' 18.126" E
P6	311903.4896	2669807.825	24°7' 46.245" N	85°8' 56.532" E
P7	312734.6872	2669565.712	24°7' 38.732" N	85°9' 26.079" E
P8	312736.323	2669667.481	24°7' 42.041" N	85°9' 26.089" E

Legend

- PILLAR POINT
- PROPOSED GHAT
- VILLAGE WISE AREA

Plate D

(Composite Map of Damodar River)

State Level Environment Impact Assessment Authority * Jharkhand, Ranchi *
Approved

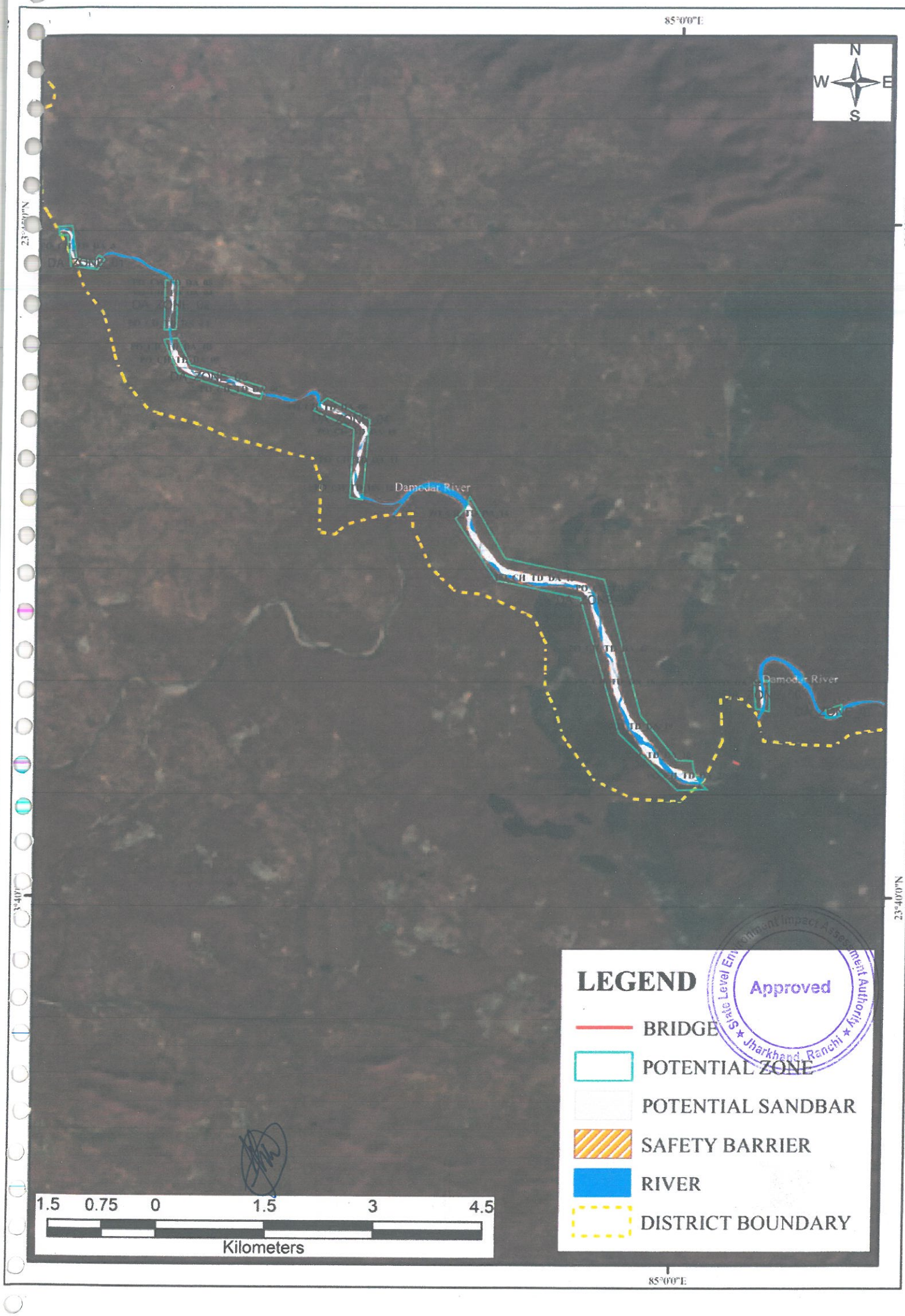

85°0'0"E
N
W
E
S
23°48'0"N
Damodar River
Damodar River
23°40'0"N
LEGEND
BRIDGE
POTENTIAL ZONE
POTENTIAL SANDBAR
SAFETY BARRIER
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
1.5 0.75 0 1.5 3 4.5
Kilometers

Plate E

(Composite Map of Garhi River)

State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi

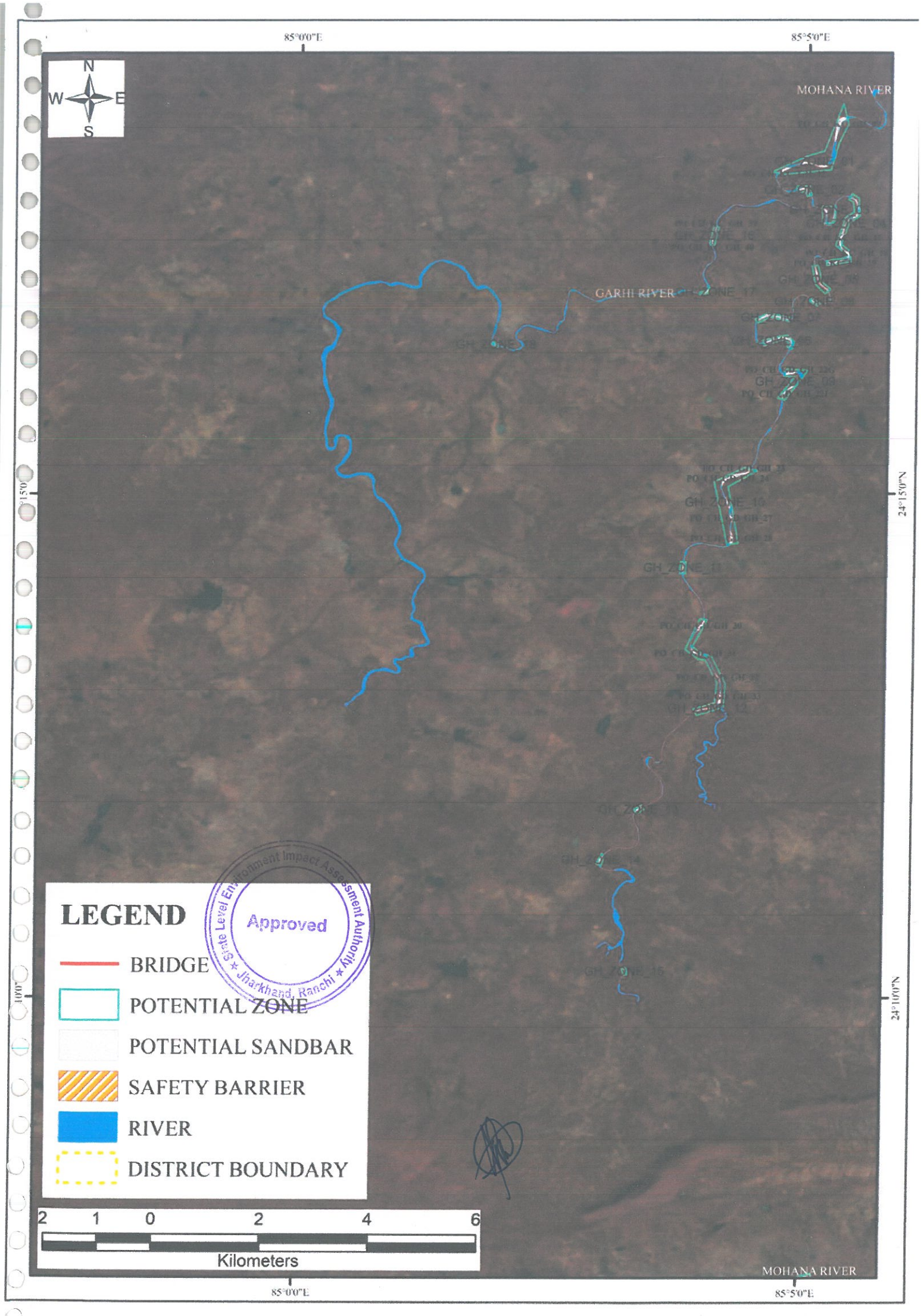

85°0'0"E
85°5'0"E
N
W
E
S
MOHANA RIVER
GARHI RIVER
24°15'0"N
24°10'0"N
LEGEND
BRIDGE
POTENTIAL ZONE
POTENTIAL SANDBAR
SAFETY BARRIER
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
2 1 0 2 4 6
Kilometers
MOHANA RIVER
85°0'0"E
85°5'0"E

Plate F

(Composite Map of Lilajan River)

State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi

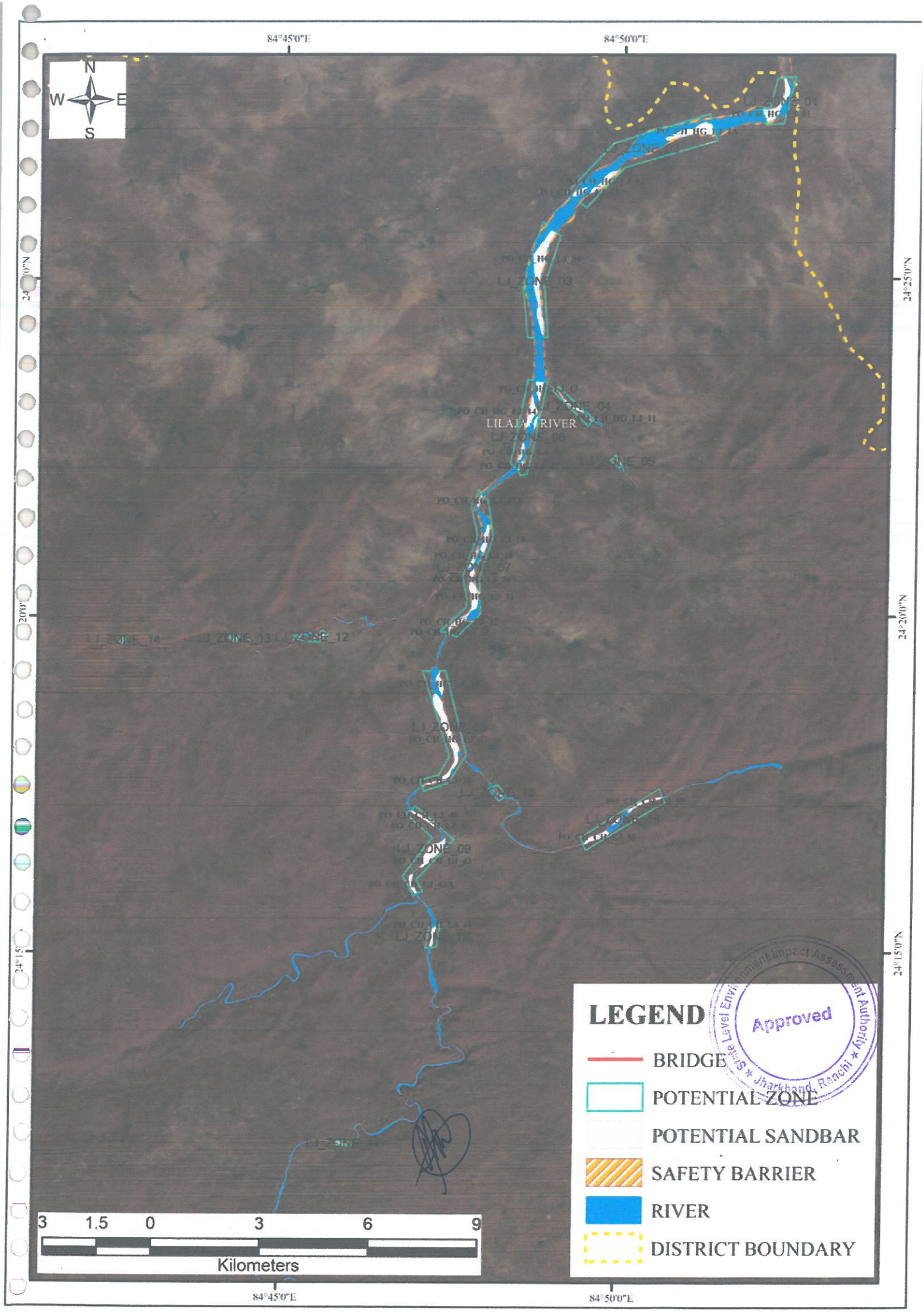
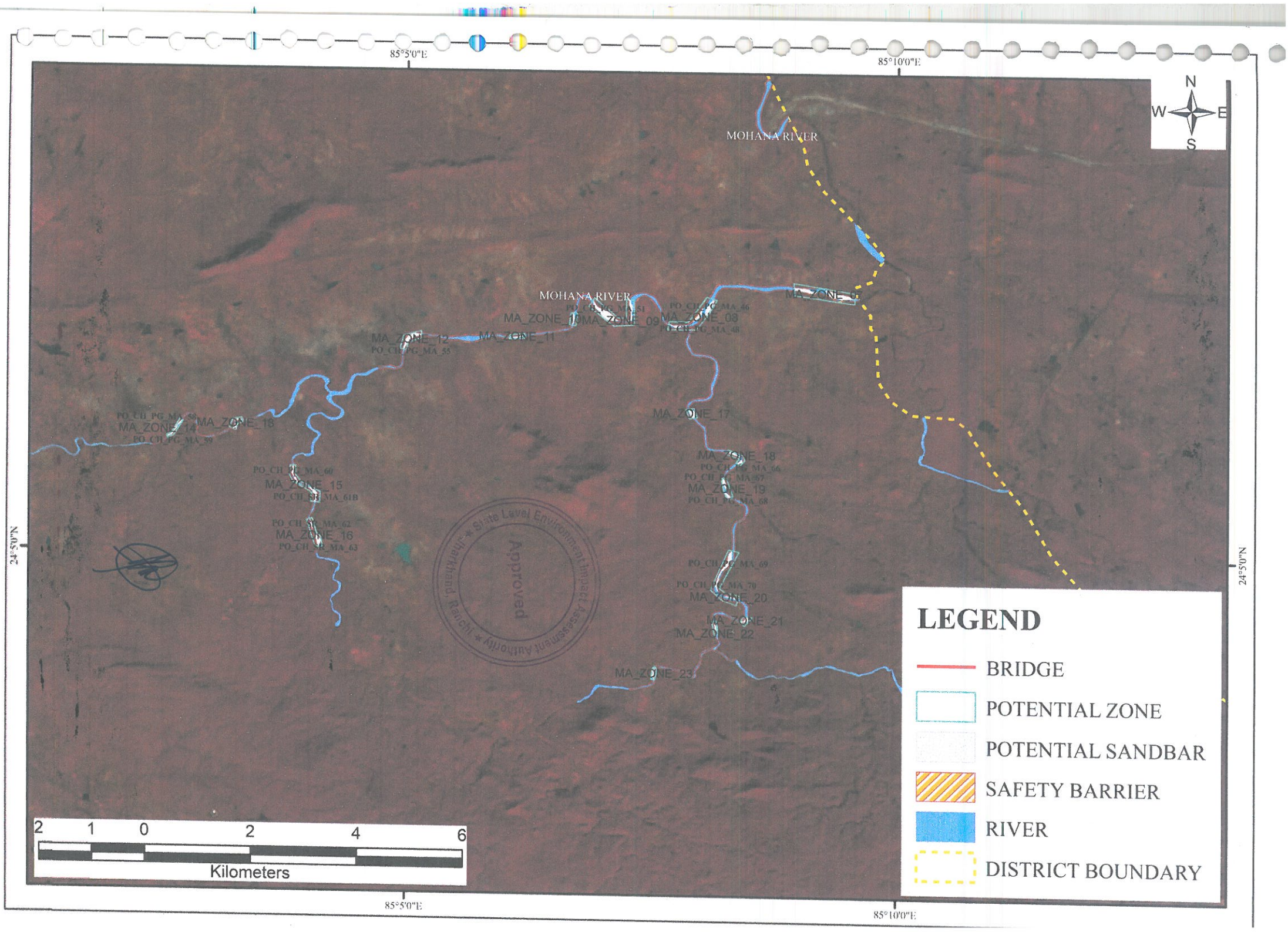

84°45'0"E
84°50'0"E
24°25'0"N
24°20'0"N
24°15'0"N
N
W
E
S
LILAJAN RIVER
LEGEND
BRIDGE
POTENTIAL ZONE
POTENTIAL SANDBAR
SAFETY BARRIER
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★
3 1.5 0 3 6 9
Kilometers

Plate G

(Composite Map of Mohna River)




85°5'0"E
85°10'0"E
24°5'0"N
N
W
E
S
MOHANA RIVER
MA_ZONE_07
MA_ZONE_08
MA_ZONE_09
MA_ZONE_11
MA_ZONE_12
MA_ZONE_13
MA_ZONE_14
MA_ZONE_15
MA_ZONE_16
MA_ZONE_17
MA_ZONE_18
MA_ZONE_19
MA_ZONE_20
MA_ZONE_21
MA_ZONE_22
MA_ZONE_23
Approved
State Level Environment Impact Assessment Authority * Jharkhand, Ranchi *
2 1 0 2 4 6
Kilometers
LEGEND
BRIDGE
POTENTIAL ZONE
POTENTIAL SANDBAR
SAFETY BARRIER
RIVER
DISTRICT BOUNDARY

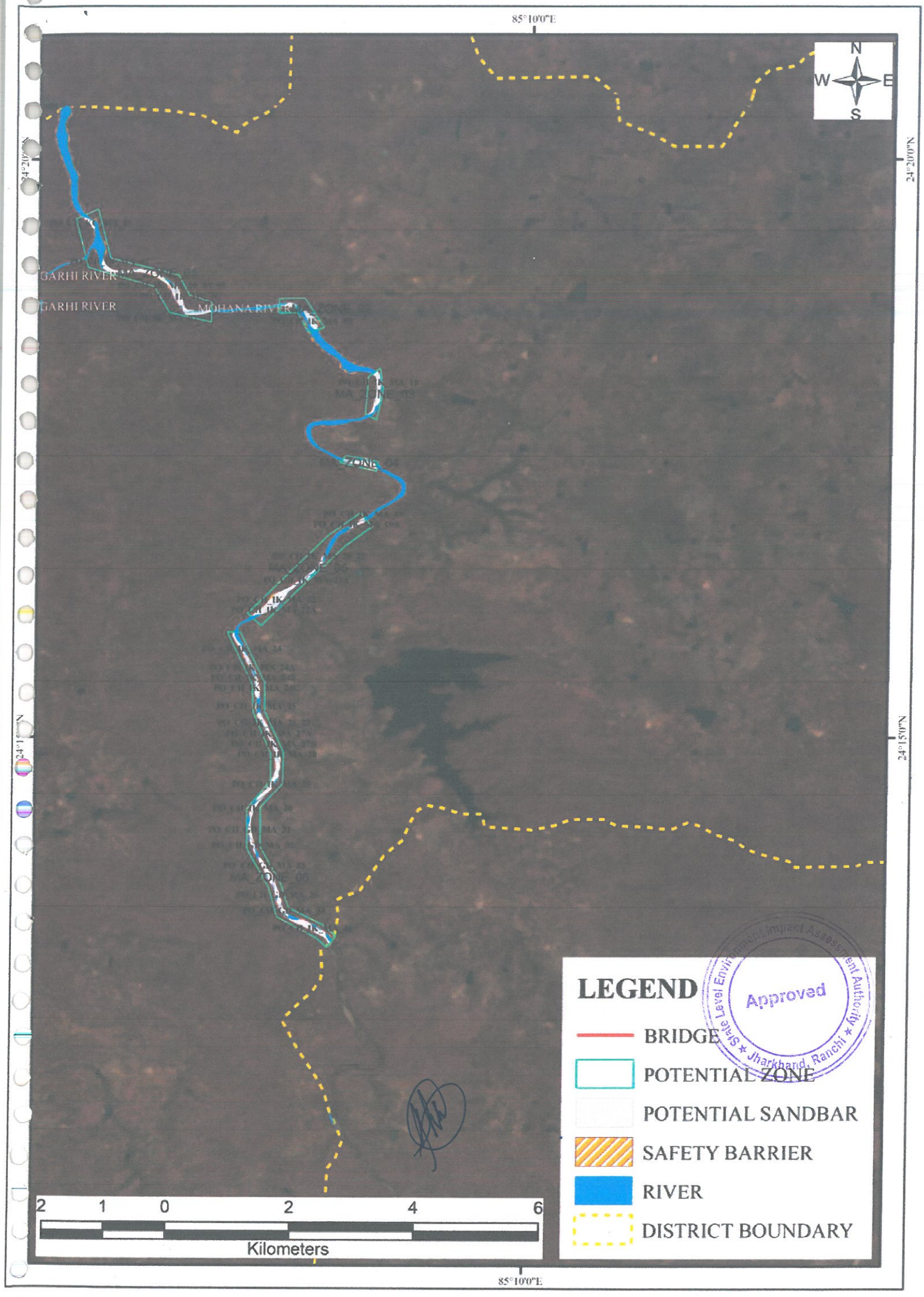

85°10'0"E
24°20'0"N
24°15'0"N
N
W
E
S
GARHI RIVER
GARHI RIVER
MOHANA RIVER
ZONE
LEGEND
BRIDGE
POTENTIAL ZONE
POTENTIAL SANDBAR
SAFETY BARRIER
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
2 1 0 2 4 6
Kilometers

Plate H

(Composite Map of Morhar River)

State Level Environment Impact Assessment Authority
Approved
Jharkhand, Ranchi

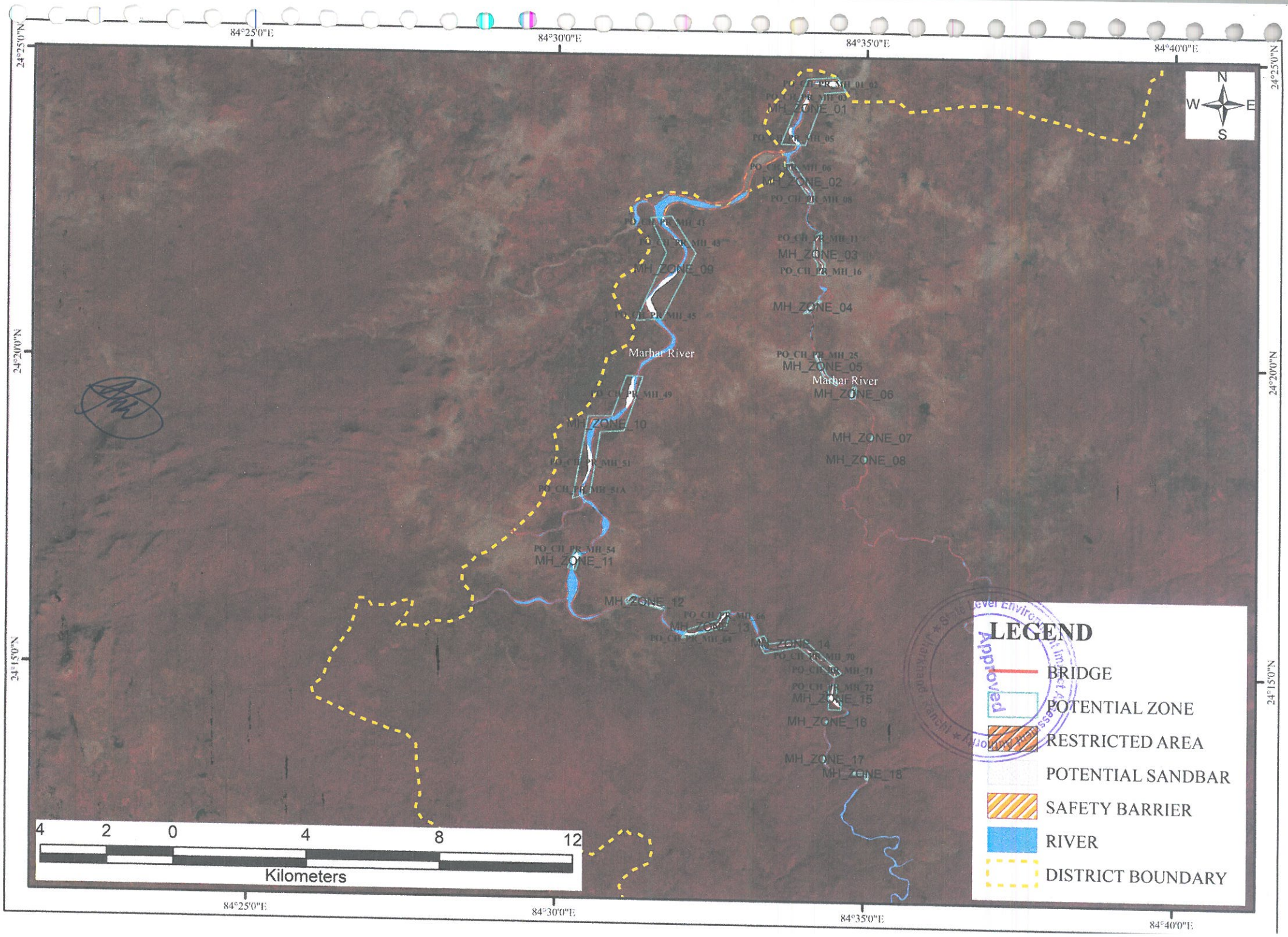

84°25'0"E
84°30'0"E
84°35'0"E
84°40'0"E
24°25'0"N
24°20'0"N
24°15'0"N
N
W
E
S
MH_ZONE_01
MH_ZONE_02
MH_ZONE_03
MH_ZONE_04
MH_ZONE_05
MH_ZONE_06
MH_ZONE_07
MH_ZONE_08
MH_ZONE_09
MH_ZONE_10
MH_ZONE_11
MH_ZONE_12
MH_ZONE_13
MH_ZONE_14
MH_ZONE_15
MH_ZONE_16
MH_ZONE_17
MH_ZONE_18
Marhar River
Marhar River
4 2 0 4 8 12
Kilometers
LEGEND
BRIDGE
POTENTIAL ZONE
RESTRICTED AREA
POTENTIAL SANDBAR
SAFETY BARRIER
RIVER
DISTRICT BOUNDARY

Plate I

(Composite Map of Baki River)



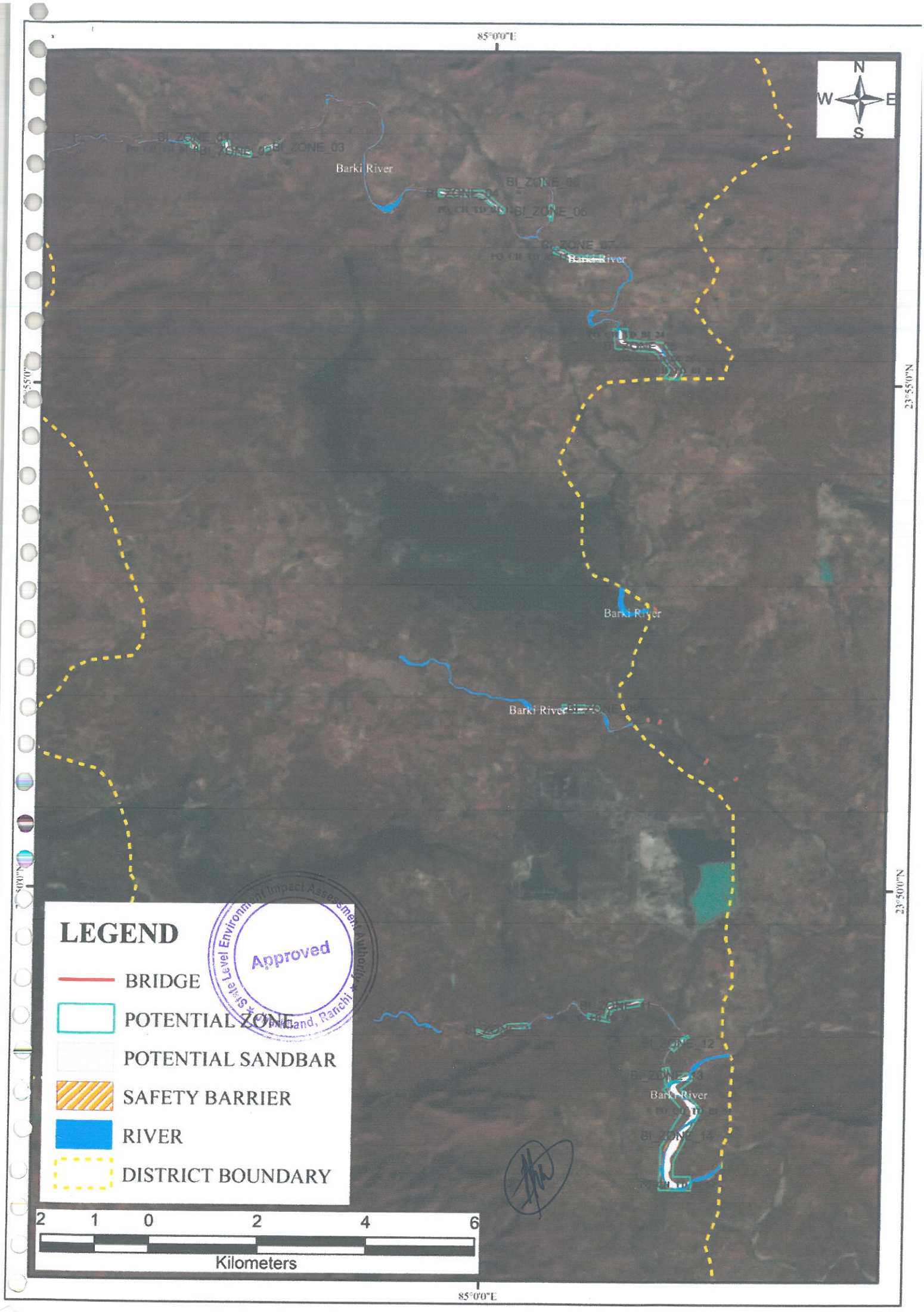
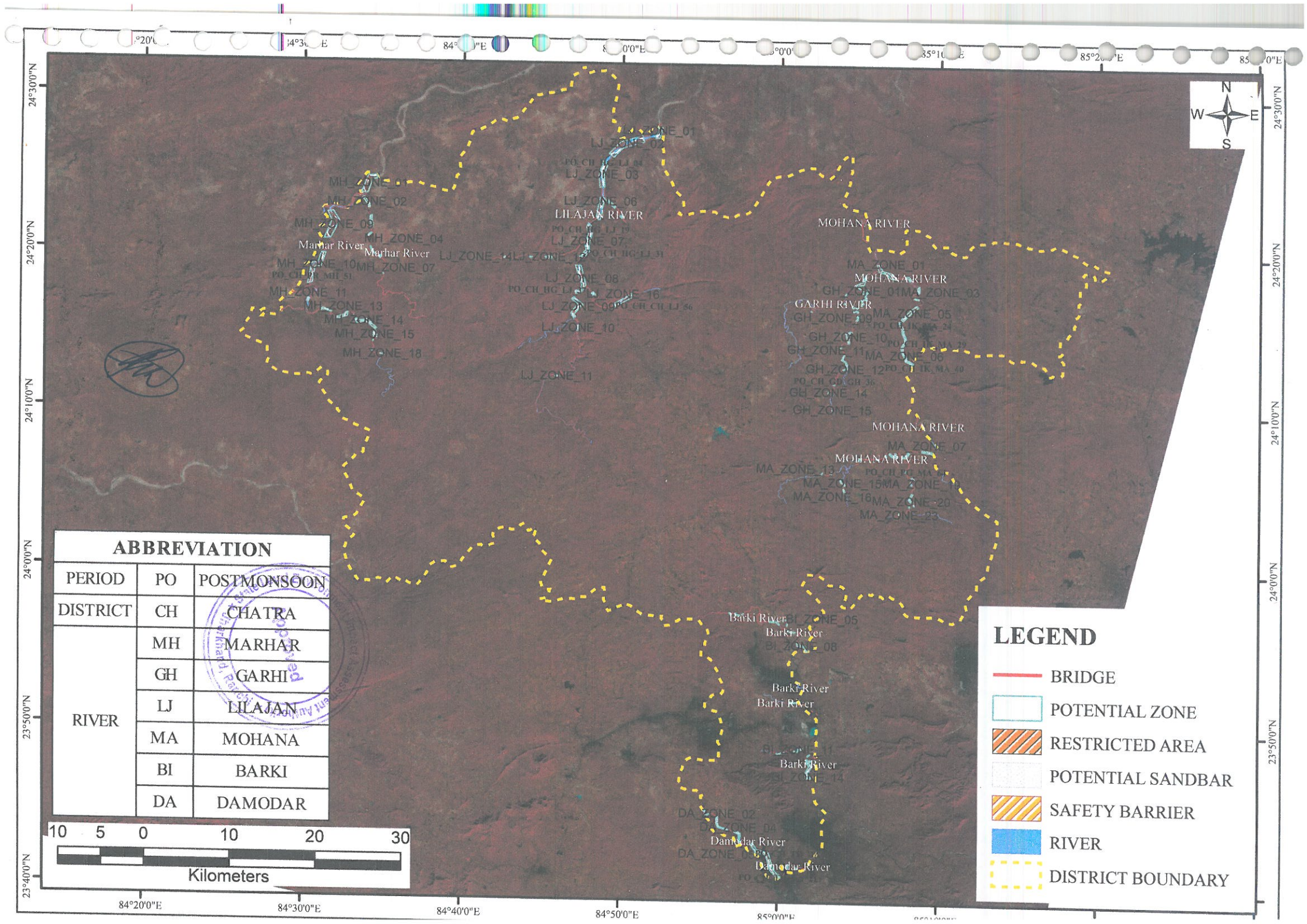

85°0'0"E
N
W
E
S
Barki River
Barki River
Barki River
Barki River
23°55'0"N
23°50'0"N
LEGEND
BRIDGE
POTENTIAL ZONE
POTENTIAL SANDBAR
SAFETY BARRIER
RIVER
DISTRICT BOUNDARY
Approved
State Level Environment Impact Assessment Authority
Jharkhand, Ranchi
2 1 0 2 4 6
Kilometers
85°0'0"E

Plate J

(Composite Map of Chatra)


N
W
E
S
LILAJAN RIVER
MOHANA RIVER
MOHANA RIVER
GARHI RIVER
MOHANA RIVER
MOHANA RIVER
Marhar River
Marhar River
Barki River
Barki River
Barki River
Barki River
Barki River
Damodar River
Damodar River
ABBREVIATION
PERIOD PO POSTMONSOON
DISTRICT CH CHATRA
RIVER MH MARHAR
GH GARHI
LJ LILAJAN
MA MOHANA
BI BARKI
DA DAMODAR
10 5 0 10 20 30
Kilometers
LEGEND
BRIDGE
POTENTIAL ZONE
RESTRICTED AREA
POTENTIAL SANDBAR
SAFETY BARRIER
RIVER
DISTRICT BOUNDARY
84°20'0"E
84°30'0"E
84°40'0"E
84°50'0"E
24°30'0"N
24°20'0"N
24°10'0"N
24°0'0"N
23°50'0"N
23°40'0"N

District Mining Office, Chatra

To whom it may concern

This is to certify that all sitting criteria/ Provision of JSPCB & SEIAA, Jharkhand has been complied.
As per JSPCB notification no.- B-21, Ranchi dated 16/08/13.

Minimum Distance from	Distance (in meter)
NH	100
SH	100
Distance metal road	50
Railway line	100
River	100
Any other river	100
Habitation	200
Forest /Forest Land	400

As per 58th MOM -of- SEIAA Jharkhand held on 19.06.2018

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

क्रम सं०	निर्धारित बिन्दु	हाँ/नहीं
1.	क्या प्रोजेक्टेड भूमि की कटि सई खतियान यथा रजिस्टर-II में जंगल झाड़ी के रूप में दर्ज है?	
2.	क्या 500 मीटर की दूरी के अंदर कोई मानव बसावट (Habitation) स्थित है?	
3.	क्या 500 मीटर की दूरी के अंदर कोई जलीय 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 चिकित्सालय (Hospital) स्थित है?	
7.	क्या 10 कि०मी० की परिधि में कोई अंतर्राज्यीय (Interstate) सीमा है?	
8.	क्या 500 मीटर की दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्विय (Monuments Archaeological) महत्व के स्थल स्थित है?	

As per 67th MOM -of- SEIAA Jharkhand held on 08.02.2019

iv. Revised format for project proponent to get the following information / certification from Divisional Forest Officer concerned :-

क्रम सं०	निर्धारित बिन्दु	हाँ / नहीं
1.	2.	3.
1.	क्या परियोजना स्थल से आरक्षित वन / संरक्षित वन भूमि से दूरी 250 मी० है?	
2.	क्या परियोजना स्थल No Mining Zone अन्तर्गत आता है?	
3.	क्या परियोजना स्थल से 10 किलो मीटर की दूरी के अंदर कोई नेशनल पार्क है?	
4.	क्या परियोजना स्थल से 10 किलो मीटर की दूरी के अंदर कोई अभयारण्य एवं अन्य विभिन्न क्षेत्र है?	
5.	क्या परियोजना स्थल से 10 किलो मीटर की दूरी के अंदर कोई इको सेंसेटिव जोन (Eco Sensitive Zone) है?	
6.	क्या प्रोजेक्ट परियोजना ESZ के अन्तर्गत प्रकाशित सूची में आता है अथवा नहीं?	

State Level Environment Impact Assessment Authority ★ Jharkhand, Ranchi ★ Approved

District Mining Officer
Chatra

Scanned with CamScanner

Sl.No	POTENTIAL SANDBAR	Lease Details	AREA_Ha.	VILLAGE	THANA NO.	KHATA NO.	KHASRA NO.	BLOCK	Distance from forest	Distance From Bridge	Name of Bridge
1	PO_CH_GD_GH_28	Garhi 32	0.9	Manjhgawan	12	64	986	GIDHOUR	400 m	1.67 KM	Chatra- Chauparan Rd Bridge
2	PO_CH_HG_LJ_1A	Lilajan 01 Vill-Uraili, Bahera, Block-Hunterganj	24.7	Uraili	91	1	76	Hunterganj	More than 250 m	0.77 KM	Gora Dam Ghat
				Bahera	93	98	11,133	Hunterganj			
3	PO_CH_HG_LJ_01	Lilajan 02 Vill-Suggi, Pandarokalan, Block-Hunterganj	1.46	Suggi	101	74	566	Hunterganj	More than 250 m	0.51 KM	Gora Dam Ghat
			4.26	Pandarokalan	103	1	1	Hunterganj			
4	PO_CH_HG_LJ_02	Lilajan 03 Vill-Garkedali,Block-Hunterganj	9.56	Garkedali	87	25	1	Hunterganj	More than 250 m	0.84 Km	Kedi Kalan Rd
5	PO_CH_HG_LJ_03	Lilajan 04 Vill-Nawadih, Block-Hunterganj	4.93	Nawadih	43	52	275	Hunterganj	More than 250 m	0.50 Km	Kedi Kalan Rd
6	PO_CH_HG_LJ_04	Lilajan 05 Vill-Kedalikalan, Patwa, Banki, Kobani,Block-Hunterganj	46.54	Kedalikalan	85	127	1, 400, 837	Hunterganj	More than 250 m	0.50 Km	Kedi Kalan Rd
				Patwa	77	1	268, 269, 301, 302	Hunterganj			
				Banki	78	13	1	Hunterganj			
				Kobani	80	151	1	Hunterganj			
7	PO_CH_HG_LJ_05	Lilajan 06 Vill-Sahi,Block-Hunterganj	0.37	Sahi	125	71	368	Hunterganj	More than 250 m	No Bridge with in 1.0 Km	
8	PO_CH_HG_LJ_06	Lilajan 07 Vill-Sahi, Block-Hunterganj	1.02	Sahi	125	71	368	Hunterganj	More than 250 m	No Bridge with in 1.0 Km	
9	PO_CH_HG_LJ_07	Lilajan 08 Vill-Sahi, Block-Hunterganj	0.53	Sahi	125	71	368	Hunterganj	More than 250 m	No Bridge with in 1.0 Km	
10	PO_CH_HG_LJ_08	Lilajan 09 Vill-Sahi, Block-Hunterganj	0.28	Sahi	125	71	368	Hunterganj	More than 250 m	No Bridge with in 1.0 Km	
11	PO_CH_HG_LJ_10	Lilajan 10 Vill-Sahi, Block-Hunterganj	1.51	Sahi	125	71	369	Hunterganj	More than 250 m	No Bridge with in 1.0 Km	
12	PO_CH_HG_LJ_13	Lilajan 12 Vill-Sahi, Block-Hunterganj	6.66	Sahi	139	71	1	Hunterganj	More than 250 m	No Bridge with in 1.0 Km	
13	PO_CH_HG_LJ_14	Lilajan 13 Vill-Sahi, Block-Hunterganj	10.74	Sahi	125	71	1	Hunterganj	More than 250 m	No Bridge with in 1.0 Km	
14	PO_CH_HG_LJ_15	Lilajan 14 Vill-Sahi, Block-Hunterganj	1.9	Sahi	125	71	1	Hunterganj	More than 250 m	No Bridge with in 1.0 Km	
15	PO_CH_HG_LJ_30	Lilajan 26 Vill-Lohsinghana Kalan, Block-Hunterganj	3.46	Lohsinghana Kalan	144	76	244	Hunterganj	More than 250 m	No Bridge with in 1.0 Km	
16	PO_CH_PR_MH_08	Morhar 06 Vill- Bharhi, Block- Pratappur	0.53	Bharhi	46	96	358	Pratappur	More than 250 m	0.55 Km	Bridge
17	PO_CH_TD_DA_19	Damodar 23 Vill- Kutki, Block- Tandwa	3.44	Kutki	95	44	727	Tandwa	620	No Bridge with in 1.0 Km	
18	PO_CH_TD_DA_21	Damodar 25 Vill- Kutki, Block- Tandwa	3.2	Kutki	95	44	727	Tandwa	620 m	0.52 Km	Bridge

