



सत्यमेव जयते

## राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण, झारखण्ड

State Level Environment Impact Assessment Authority, Jharkhand

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पत्रांक:- 283

दिनांक:- 16/10/2024

प्रेषक:

सदस्य सचिव,  
राज्य स्तरीय पर्यावरण समाघात निर्धारण  
प्राधिकरण (SEIAA), झारखण्ड।

सेवा में,

उपायुक्त,  
जिला : हजारीबाग,  
झारखण्ड।

विषय : हजारीबाग जिला का पत्थर खनिज से संबंधित DSR के अनुमोदन के संबंध में।

प्रसंग : आपका कार्यालय का पत्रांक-1169 / हजारीबाग, दि0-26.09.2024।

महाशय,

उपर्युक्त विषयक आपके कार्यालय के प्रासंगिक पत्र दिनांक 26.09.2024 द्वारा हजारीबाग जिला का पत्थर खनिज से संबंधित DSR की एक प्रति अनुमोदन हेतु दिनांक 26.09.2024 को SEIAA कार्यालय में समर्पित किया गया।

तदनुसार SEAC, झारखण्ड की 117वीं बैठक दिनांक 27.09.2024 से दिनांक 01.10.2024 में संबंधित DSR का आकलन किया गया तथा निम्नवत बिन्दुओं पर आपकी सहमति प्राप्त करते हुए DSR अनुमोदन हेतु SEIAA को अनुशंसा भेजा गया :

1. The final DSR had been placed in the public domain for 21 days from the 08.08.2024. As per the Sub Divisional Committee no comments / observations were obtained.
2. The DSR has been prepared as per the format provided in the notification no SO 3611 (E), dated-25.07.2018 issued by MoEF & CC Govt. of India. The DSR submitted has been **prepared** by the Sub-Divisional Committee for final approval. All the aspects of the notification dated 25.07.2018 are incorporated in the DSR and found to be satisfactory

तदआलोक में SEIAA, झारखण्ड की 117वीं बैठक दिनांक 15.10.2024 एवं दिनांक 16.10.2024 में विचार किया गया तथा सामुहिक निर्णयोपरांत हजारीबाग जिला का पत्थर खनिज से संबंधित DSR का अनुमोदन किया गया।

हजारीबाग जिला का पत्थर खनिज से संबंधित अनुमोदित DSR की एक मूल प्रति अत्र- सह-संलग्न कर आपको अग्रेतर कार्रवाई हेतु भेजा जा रहा है।

अनु० यथोक्त।

विश्वासभाजन,

सदस्य सचिव,

राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण (SEIAA), झारखण्ड।



# DISTRICT SURVEY REPORT

OF

MINOR MINERAL – STONE

[OTHER THAN SAND MINING OR RIVER-BED MINING]

FOR

HAZARIBAGH DISTRICT OF JHARKHAND STATE

As per the Gazette Notification No. - S.O. - 3611 (E), 25th July  
2018 by Ministry of Environment Forest & Climate Change,  
Govt. of India

Prepared by:

SUB-DIVISIONAL COMMITTEE  
HAZARIBAGH DISTRICT, JHARKHAND



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**CERTIFICATE**

The District Survey Report (DSR) for Minor mineral (Stone) other than Sand Mining or River-bed Mining in Hazaribagh District of Jharkhand State has been prepared by sub- divisional committee of Hazaribagh district administration.

District Survey Report for Minor mineral (Stone) other than Sand Mining or River-bed Mining in Hazaribagh District is prepared under;

- MoEF & CC, GoI Notification No. - S.O. 3611 (E) dated 25/07/2018.
- Jharkhand Minor Mineral Concession Rule, 2004 (as amended from time to time).

The information mentioned in the District Survey Report for Minor mineral (Stone) other than Sand Mining or River-bed Mining in Hazaribagh District of Jharkhand State are correct to the best of our knowledge.

**Authorized Signatory**



**District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



The Deputy Commissioner through its letter 803/M, Hazaribagh, dated 22/06/2024 had constituted the sub-divisional committee to prepare the District Survey Report. List of the members of the sub-divisional Committee is shown below:

S.L No.	Officer's	Signature
1	Divisional Forest Officer, West Forest Division, Hazaribagh	<i>[Signature]</i> 24/09/24
2	Divisional Forest Officer, East Forest Division, Hazaribagh	<i>[Signature]</i> 26/09/2024
3	Divisional Forest Officer, Wildlife Division, Hazaribagh	<i>[Signature]</i> 26/09/24
4	Sub- Divisional Officer, Sadar, Hazaribagh	<i>[Signature]</i> 26.09.24
5	Sub- Divisional Officer, Barhi, Hazaribagh	<i>[Signature]</i> 26/09/24
6	District Mining Officer, Hazaribagh	<i>[Signature]</i> 26.9.2024
7	Executive Engineer, Minor Irrigation Division, Hazaribagh	<i>[Signature]</i> 24/09/24
8	Assistant Director, Geology, District Geological Office, Hazaribagh	<i>[Signature]</i> 26/9/24
9	Regional Officer, Jharkhand State Pollution Control Board (JSPCB), Hazaribagh	<i>[Signature]</i> 26/09/24

*[Signature]*  
24/9/24  
Deputy Commissioner  
Hazaribagh

Approved by,

*[Signature]*  
16/10/24  
Member

State Level Environment Impact Assessment Authority, Jharkhand

SEIAA, Jharkhand

*[Signature]*  
16/10/24  
Chairman  
State Level Environment Impact Assessment Authority, Jharkhand

*[Signature]*  
16/10/2024  
Member Secretary  
State Level Environment Impact Assessment Authority  
Jharkhand



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**PREFACE**

The need for District Survey Report (DSR) have 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 15<sup>th</sup> 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 Report has been emphasized. Subsequently, MoEF & CC has published Notification No. - 3611 (E), dated 25<sup>th</sup> July 2018 regarding inclusion of the format of District Survey Report (DSR) for "Minor minerals other than Sand Mining or River-bed Mining". This DSR has been prepared in conformity with the Notification No. - S.O. - 141 (E), S.O. - 3611 (E) and other Sand mining guidelines published by MoEF & CC time to time as well as the requirement specified in Jharkhand Minor Mineral Concession Rules.

The main purpose of DSR is to identify the mineral potential areas to develop the mining activities along with relevant current geological data of the district where mining can be allowed; and also, to distinguish the areas where mining will not be allowed due to proximity to infrastructural structures and installations. The District Survey Report shall guide for systematic and scientific utilization of natural resources, so that present and future generation may be benefitted at large.

The occurrence of Minor minerals in the district have been established by Department of Mines and Geology, Government of Jharkhand and others in previous instances. It requires further systematic and scientific approach to quantify the resource along with their grade assessment. This report also recommends to undertake detail exploration program to assess the Minor mineral occurrences in the district and should have a proper development and production plan for the specified minerals so as to satisfy the demand and supply gap of Minor minerals in the district.





## **1 INTRODUCTION**

The District Survey Report of Hazaribagh District has been prepared as per the guide line of Ministry of Environment, Forests & Climate Change (MoEF & CC), Government of India vides 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 Report for Minor minerals other than Sand Mining or River-bed Mining.

### **The objectives of the District Survey Report are as following:**

1. Identification and Quantification of mineral resource and its optimal utilization.
2. To regulate the Minor mineral's mining in the Country, identification of site-specific end-use consumers and reduction in demand & supply gaps.
3. Use of information technology (IT) & latest scientific method of mining for surveillance of the Minor mineral's mining at each step.
4. District Survey Report shall enable Environmental Clearance for cluster of Minor minerals. Its hall assists concerned Department during post environmental clearance monitoring.
5. To control the instance of illegal mining.
6. To maintain the livelihood of nearby village's peoples.
7. To keep accumulated data records viz. Details of Mineral Resource, Potential area, Lease, Approved Mining Plan, Co-ordinates of a District at one place.
8. To maintain the records of Royalty/Revenue generation.
9. A concise guideline can be framed considering the point discussed in the DSR for Minor mineral's mining in the district.

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 concerned district Head Quarter.



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# District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.



## 1.1 Statutory Framework

### Evolution of the Environmental Regulatory Framework:

The below table has mentioned the requirement of District Survey Report and its year wise modification;

Table 1-1:- 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 having mining lease area 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 for proper monitoring of minor mineral. Thereby 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



## District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.



Year	Particulars
	preparation of District Survey Report (DSR) of River-bed material and other minor minerals
2018	MoEF & CC published a notification S.O. - 3611(E) Dated 25th July 2018 and recommended the format for District Survey Report for Minor minerals other than Sand mining or River-bed mining. The notification stated about the objective of DSR, i.e. "identification of the mineral potential areas to develop the mining activities along with relevant current geological data of the District where mining can be allowed; and also to distinguish the areas where mining will not be allowed due to proximity to infrastructural structures and installations.

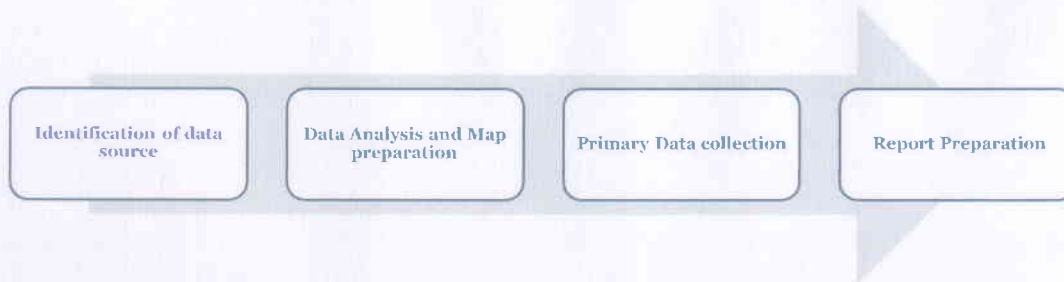
The Ministry of Environment Forest & Climate Change formulated the format of District Survey Report for Minor minerals other than Sand Mining or River-bed Mining which focuses on the management of Minor mineral's mining in the country. But in the recent past, it has been observed that apart from management and systematic mining practices there is an urgent need to have a guideline for effective enforcement of regulatory provision and their monitoring. Section 23 C of MMDR 1957 empowered the State Government to make rules for preventing illegal mining, transportation and storage of minerals but in the recent past, it has been observed that there was large number of illegal mining cases in the Country and in some cases, many of the officers lost their lives while executing their duties for curbing illegal mining incidence. The illegal and uncontrolled illegal mining leads to loss of revenue to the State and degradation of the environment.

### 1.2 Methodology of DSR Preparation

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



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**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 based on Government published data or the published report in reputed journal. District profile has been prepared based on the District Census 2011. Potential mineral resources have been described based on GSI or any other Govt. agencies work done. Mining lease details and the revenue generated from Minor minerals has been prepared based on available data from District Mining Office of the district. Satellite image has been used for map preparation related to physiography and land utilization pattern of the district.

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

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

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

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



**District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**






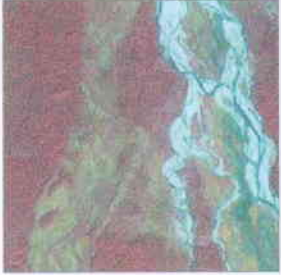


	
<p><b>Agricultural Land</b> - Based on their Geometrical shape, Red and Pink colour tone, Agricultural Land has been identified.</p>	<p><b>Vegetation Covered Area</b> - Based on their continuous Red colour tone, Vegetation Covered Area has been identified.</p>
	
<p><b>Agricultural Fallow Land</b> - Based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

Figure 1-1:- 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 Color Composition)



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## **District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



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.

### Physiographical Map:

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

### Block Map:

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

### Transportation Map:

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

### Drainage Map:

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

### Seismic Map:

- Raw data collected from **Ministry of Earth Science.**
- Data has been geo-referenced using GIS software.



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## **District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



- 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.

**Primary Data Collection:** Although, field data collection is an integral part of DSR preparation. This report has been prepared with the holistic approach and data provided by District Mining Office. The DSR with all updated data has been prepared.

**Report Preparation:** District Survey Report has been prepared to fulfil the purpose of identification of mining area for Minor mineral and their impact on environment. Report provides details of the mineral potential zones. Assessing mining prospect with respect to minor minerals, List of Letter of Intent (LOI) incorporated in this report. Report also provides the socio environmental study for establishing mines of Minor minerals in the district.





## 2 OVERVIEW OF MINING ACTIVITY IN THE DISRICT

The State stretches over 79,714 km<sup>2</sup> geographical areas with 29.61% forest area and owns about 40% of total mineral resources of India. The State occupies 1<sup>st</sup> position in coal reserves, 2<sup>nd</sup> position in Iron, 3<sup>rd</sup> position in copper ore reserve and 7<sup>th</sup> position in Bauxite reserve and is the sole producer of prime coking coal. Limestone, Dolomite, Manganese, Mica, China Clay, Graphite, Soap stone, Fire Clay, Coal Bed Methane, Uranium, Phosphorite, Apatite, Quartz, Feldspar, Gold and Pyroxenite are the other important minerals available in huge quantities in State.

The district of Hazaribagh is situated in the north east part of North Chotanagpur Division. The boundary of this district consists of districts of Gaya (Bihar) and Koderma in the north, Giridih and Bokaro in the east, Ramgarh in the south and Chatra in the west. The district of Hazaribagh is situated in the north east part of North Chotanagpur Division. Hazaribagh district is a part of North Chotanagpur Division consisting of 16 blocks and two subdivisions namely Barhi & Sadar.

As in other districts of Chhotanagpur, Hazaribagh district too is endowed with mineral resources. In the district, minerals such as Limestone, Fire Clay, China Clay, Stone, bricks, sand, Quartz and some quantities of coal are found. These can be termed as Major Minerals. Minor minerals such as Granite, sand etc. is also available in the district. At present, 20 leases of Stone are operational in the Hazaribagh district.

Table 2-1:- Working mines details in the district

Sl. No.	Type of Mines	No. of mines
1	General Stone	20
2	Coal	10

Table 2-2:- Leases in Hazaribagh District

Sl. No.	Particular	No. of stone mine
1	Working Mines	20
2	Expired Mines	7
3	LOI holder	5
4	Applied for LOI	35
5	Proposed by Department Geology	0

- Existing/working mines is attached in chapter 09.



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**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



Table 2-3:- Details of Expired Stone Mining Leases in the District:

क्र०	खनन पट्टाधारी का नाम एवं पता	पट्टा अवधि	मौजा	क्षेत्र का विवरण	पट्टा भूमि का प्रकृति	खनन योजना अनुमोदन की तिथि
1	2 श्री राजकुमार यादव पिता श्री ब्रह्मदेव यादव मौ० महावीर मोहल्लाए कोडरमा। श्री अशोक कुमार यादव पिता स्व० गुल्ली यादव ग्राम- झुमरीए पो०-करमाए जिला- कोडरमा।	3 27.07.2004 से 2014 एवं दिनांक 31.03.20 तक	4 दिनांक 31.03.22 तक अवधि विस्तारित	5 थाना- बरकट्टाए मौजा- बरकनगंगोए खाता संख्या 73ए 61ए 16 एवं 37ए प्लॉट संख्या 558 (अंश)ए 571ए 557ए 567ए 568 एवं अन्य (कुल 31 प्लॉट)ए रकबा 5.95 एकड़	6 रैयती	7 पत्रांक 1338ए दि० 25.07.16
2	सर्व श्री यादव स्टोन वर्क्स पार्ट०- श्री कैलाश प्रसाद यादव एवं अन्यए पिता श्री सुकर यादवए ग्राम - सलाईडीह पो० - चलकुसाए था०- बरकट्टाए हजारीबाग।	27.11.2003 से 2013 एवं दिनांक 31.03.20 तक	दिनांक 31.03.22 तक अवधि विस्तारित	थाना- बरकट्टाए मौजा- पसरियाए खाता संख्या 06ए 14ए 17 एवं 22/ 9ए प्लॉट संख्या 195ए 196ए 197ए 198ए 199ए 200 एवं 201 सभी अंशए रकबा 1.49 एकड़	रैयती	पत्रांक 290ए दि० 20.08.15
3	सर्व श्री जय माता दी स्टोन चिप्स पार्ट० श्री कुलदीप प्रसाद एवं अन्य पिता स्व० जानकी महतोए ग्राम - सलैयाए पो०- बरवाँए था- बरकट्टाए जि०-हजारीबाग।	28.08.2003 से 2013 एवं दिनांक 31.03.20 तक	दिनांक 31.03.22 तक अवधि विस्तारित	थाना- बरकट्टाए मौजा- पंचरुखी तिलैयाए खाता संख्या 01ए 08 एवं 10ए प्लॉट संख्या 30ए 31ए 32 एवं 28 (अंश)ए रकबा 3.57 एकड़	प्लॉट संख्या 28 एवं 32 - गैरमजरूआ खास प्लॉट संख्या 30 एवं 31 - रैयती	पत्रांक 1802ए दि० 09.05.15
4	श्री अर्जुन यादवए पिता - श्री रामेश्वर यादव मु० - चन्दनगुण्डो पो० - सुदाम थाना- बरकट्टाए जिला-हजारीबाग।	22.11.2001 से 2011 एवं दिनांक 31.03.20 तक	दिनांक 31.03.22 तक अवधि विस्तारित	थाना- बरकट्टाए मौजा- घोबारीए खाता संख्या 71ए प्लॉट संख्या 845 (अंश)ए रकबा 3.00 एकड़	रैयती	पत्रांक 2393ए दि० 13.07.15
5	श्री जीवलाल यादव पिता गूली यादव	10.05.2011 से दिनांक 31.03.20 तक	दिनांक 31.03.22 तक अवधि विस्तारित	थाना- चौपारणए मौजा- भटबिगहाए	गैरमजरूआ खास	पत्रांक 49ए दि० 16.02.16



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**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



6	ग्राम - झुमरीए पो0- करमाए थाना- तिलैयाए जिला- कोडरमा। सर्वश्री टी0 नाथ स्टोन वर्क्सए प्रो0 श्री त्रिलोकी घोबीए पिता स्व0 मोली बैठाए ग्राम- भटबिगहाए पो0-सलहराए थाना-चौपारणए जिला-हजारीबाग।	31.08.2007 से 2017 एवं दिनांक 31.03.20 तक	31.03.22 तक अवधि विस्तारित दिनांक 31.03.22 तक अवधि विस्तारित	खाता संख्या 73ए प्लॉट संख्या 568ए 569 एवं 571 (अंश)ए रकवा 1.88 एकड़ थाना- चौपारणए मौजा- भटबिगहाए खाता संख्या 06 एवं 62ए प्लॉट संख्या 602 एवं 603 रकवा 0.54 एकड़	रेयती	पत्रांक 268ए दि0 26.11.15
7	श्री श्याम सुन्दर मेहताए पिता स्व0 छोटु नरायण मेहताए ग्रा0-पो0- पदमाए था- पदमा ओ पीए जिला -हजारीबाग।	28.03.2010 से 10 वर्ष एवं दिनांक 31.03.20 तक	दिनांक 31.03.22 तक अवधि विस्तारित	थाना- पदमाए मौजा- कण्डादागए खाता सं0 81ए प्लॉट सं0 590 (अंश)ए रकवा 3.58 एकड़	गैरमजरूआ	पत्रांक 350ए दि0 18.09.15



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### 3 GENERAL PROFILE OF THE DISTRICT

#### 3.1 Introduction

The district of Hazaribagh is situated in the north east of north Chotanagpur division. The district occupies an area of 4310 square kilometers, covering 16 administrative blocks namely Hazaribagh, Chauparan, Barhi, Padma, Ichak, Barkatha, Bishungarh, Katkamsandi, Katamdag, Keredari, Barkagaon, Tatijharia, Churchu, Daru, Dadi and Chalkusa. The boundary of the district consists of districts of Gaya and Koderma in the north, Giridih and Bokaro in the east, Ranchi in the South and Chatra in the west. The district is situated between 24°2' 26" North and 24°56' 49" North latitude and 85°18' 24" East and 85° 25' 25" East longitude, falls in Survey of India topo sheets nos.72H/3, 4, 7, 8, 11, 12, 15, 16 and 73E/1, 2, 5, 6, 9, 13. The district has total population of 17, 34,005(2011 census) and density of population is 403 persons per sq. km.

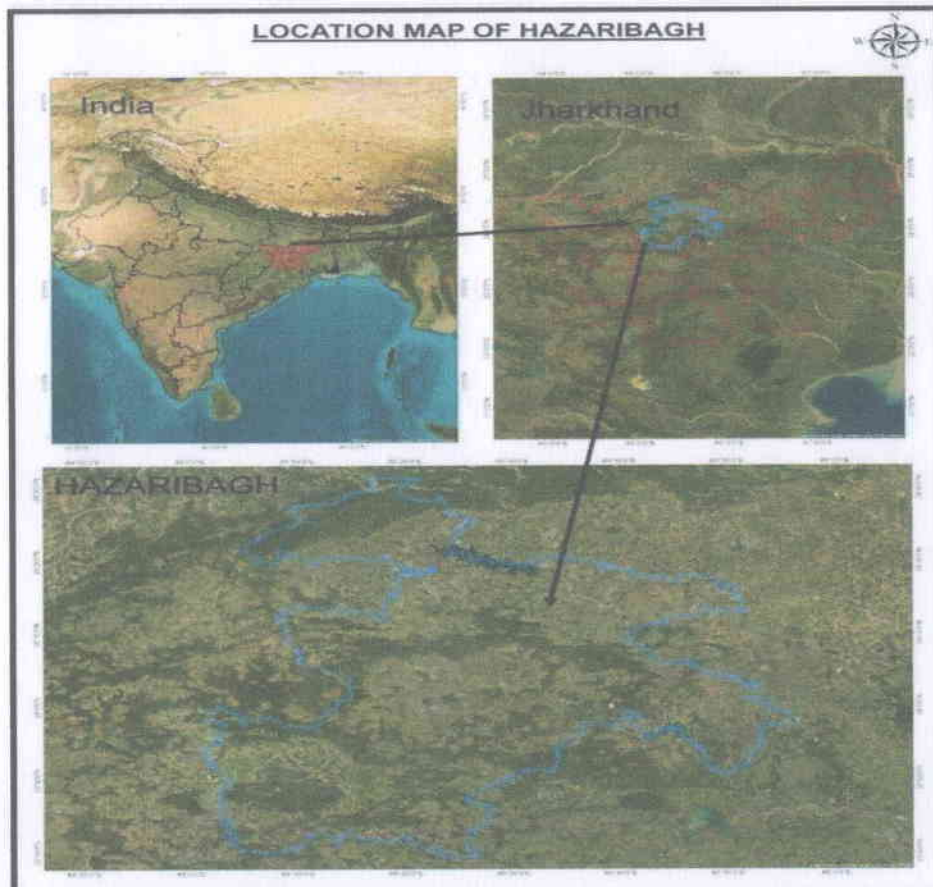


Figure 3-1:- Location map of Hazaribagh district, Jharkhand





### **3.2 Administrative Setup of District**

Hazaribagh district has 2 Subdivisions (Barhi & Sadar). There are 16 blocks in Hazaribagh district and they are Daru, Chauparan, Barhi, Padma, Ichak, Barkatha, Bishungarh, Katkamsandi, Keredari, Barkagaon, Hazaribagh Sadar, Churchu, Tatijhariya, Dadi, Katkamdag and Chalkusha. There are 257 Gram Panchayats and 1,334 revenue villages in this district.

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

Administrative Setup of Hazaribagh Includes:

- Collectorate
- Subdivision
- Blocks
- Panchayats



**District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



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



# District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.



Table 3-1:- Details of Block of Hazaribagh District

S.No.	Block	Total Area (Sq. Km)	Rural Population	Urban Population	Total Population
1	Chauparan	482.37	156453	5361	161814
2	Barhi	365.47	111544	20125	131669
3	Padma	126.54	56014	0	56014
4	Ichak	286.62	112815	0	112815
5	Tati Jhariya	199.04	48549	0	48549
6	Daru	128.06	52305	0	52305
7	Barkatha	281.05	122269	0	122269
8	Chalkusa	149.10	52068	0	52068
9	Bishungarh	416.99	146351	10126	156477
10	Hazaribagh	232.91	118276	171822	290098
11	Katkamsandi	300.52	93513	14848	108361
12	Katamdag	163.03	69150	13235	82385
13	Keredari	354.87	91357	0	91357
14	Barkagaon	447.88	131891	4948	136839
15	Churchu	201.46	46863	6842	53705
16	Dadi	145.53	49770	28000	77770
	<b>Total</b>	<b>3555.00</b>	<b>1459188</b>	<b>275307</b>	<b>1734495</b>

(Source: - As per census 2011)

### 3.3 Topography

The physiographic characteristics of the district are rich. It has waterfalls, hills, and land with avalanches. Physiographically, the district consists of Plateaus, residual hills and inter-montane valleys. The average elevation of this district is about 2012 feet above the mean sea level. Most parts of this district are full of forests and stones. The cultivable land can be divided into two parts namely – Upper land and Lower land. The lands situated on the banks of rivers are fertile. One can get good crop even after using lesser number of fertilizers in these lands. But the upper land is barren. A huge number of fertilizers and irrigation is required for cultivation in these lands. The district is drained by two major rivers, the Damodar and the Barakar River with a few minor tributaries like Naikari, Bhera, Kusum, Bokaro, Mohana and kumari. The Naikari with drainage from the south and further down the Bhera joins the Damodar River. The Damodar and the Barakar rivers show structurally controlled pattern. The drainage here is highly dissected in criss-cross fashion.



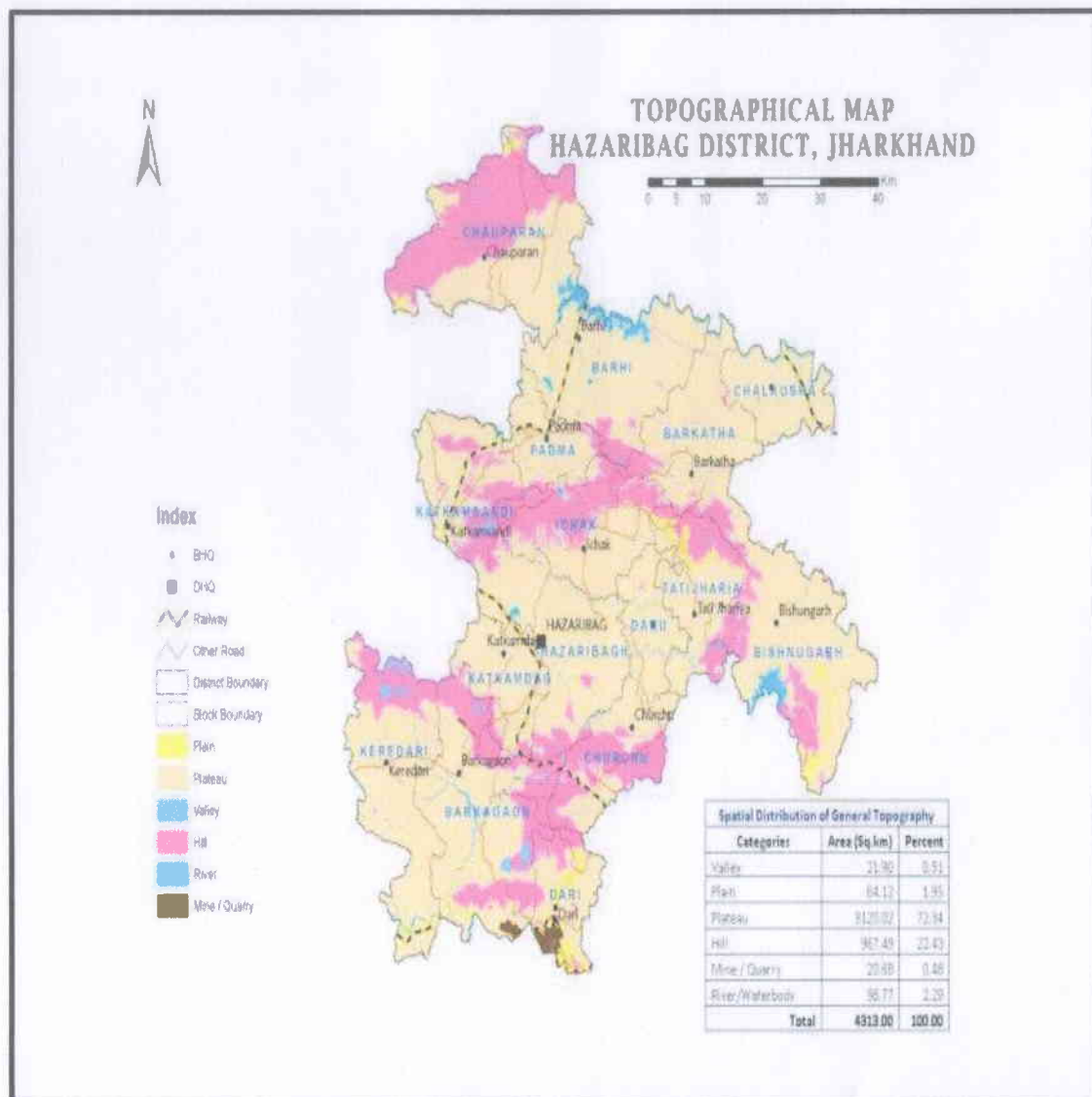


Figure 3-3:- Topographical Map Hazaribagh District Jharkhand

### 3.4 Demography

According to the 2011 census, Hazaribagh had population of 1,734,495 of which male and female were 890,881 and 843614 respectively. The district has a population density of 488 inhabitants per square kilometre. Its population growth rate over the decade 2001-2011 was 25.79%. Hazaribagh has a sex ratio of 947 females for every 1000 males, and a literacy rate of 69.75%. The district headquarter is Hazaribagh.



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Table 3-2:- Demography Hazaribagh District

DISTRICT CENSUS HANDBOOK: Hazaribagh									
DISTRICT PRIMARY									
Location code number	District/ CD Block/ Town	Total Rural / Urban	Total population (including institutional Number of and houseless population) households Persons Males Females				Population in the age-group 0-6 Persons Males Females		
			4	5	6	7	8	9	10
<b>360</b>	<b>Hazaribagh - District</b>	<b>Total</b>	<b>304,749</b>	<b>1,734,495</b>	<b>890,881</b>	<b>843,614</b>	<b>281,863</b>	<b>145,821</b>	<b>136,042</b>
		<b>Rural</b>	<b>255,451</b>	<b>1,459,188</b>	<b>746,934</b>	<b>712,254</b>	<b>246,642</b>	<b>127,467</b>	<b>119,175</b>
		<b>Urban</b>	<b>49,298</b>	<b>275,307</b>	<b>143,947</b>	<b>131,360</b>	<b>35,221</b>	<b>18,354</b>	<b>16,867</b>
<b>0150</b>	<b>Chauparan</b>	<b>Total</b>	<b>27,833</b>	<b>161,814</b>	<b>80,985</b>	<b>80,829</b>	<b>29,802</b>	<b>15,308</b>	<b>14,494</b>
		<b>Rural</b>	<b>26,902</b>	<b>156,453</b>	<b>78,294</b>	<b>78,159</b>	<b>28,884</b>	<b>14,866</b>	<b>14,018</b>
		<b>Urban</b>	<b>931</b>	<b>5,361</b>	<b>2,691</b>	<b>2,670</b>	<b>918</b>	<b>442</b>	<b>476</b>
<b>367884</b>	<b>Chauparan (CT)</b>	<b>Urban</b>	<b>931</b>	<b>5,361</b>	<b>2,691</b>	<b>2,670</b>	<b>918</b>	<b>442</b>	<b>476</b>
<b>0151</b>	<b>Barhi</b>	<b>Total</b>	<b>21,487</b>	<b>131,669</b>	<b>67,918</b>	<b>63,751</b>	<b>23,612</b>	<b>12,332</b>	<b>1,280</b>
		<b>Rural</b>	<b>18,076</b>	<b>111,544</b>	<b>57,496</b>	<b>54,048</b>	<b>20,491</b>	<b>10,717</b>	<b>9,774</b>
		<b>Urban</b>	<b>3,411</b>	<b>20,125</b>	<b>10,422</b>	<b>9,703</b>	<b>3,121</b>	<b>1,615</b>	<b>1,506</b>
<b>368007</b>	<b>Barhi (CT)</b>	<b>Urban</b>	<b>2,011</b>	<b>11,867</b>	<b>6,107</b>	<b>5,760</b>	<b>1,755</b>	<b>921</b>	<b>834</b>
<b>368008</b>	<b>Konra (CT)</b>	<b>Urban</b>	<b>1,400</b>	<b>8,258</b>	<b>4,315</b>	<b>3,943</b>	<b>1,366</b>	<b>694</b>	<b>672</b>
<b>0152</b>	<b>Padma</b>	<b>Total</b>	<b>10,440</b>	<b>56,014</b>	<b>28,941</b>	<b>27,073</b>	<b>9,378</b>	<b>4,922</b>	<b>4,456</b>
		<b>Rural</b>	<b>10,440</b>	<b>56,014</b>	<b>28,941</b>	<b>27,073</b>	<b>9,378</b>	<b>4,922</b>	<b>4,456</b>
		<b>Urban</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>0153</b>	<b>Ichak</b>	<b>Total</b>	<b>20,908</b>	<b>112,815</b>	<b>58,244</b>	<b>54,571</b>	<b>17,844</b>	<b>9,419</b>	<b>8,425</b>
		<b>Rural</b>	<b>20,908</b>	<b>112,815</b>	<b>58,244</b>	<b>54,571</b>	<b>17,844</b>	<b>9,419</b>	<b>8,425</b>
		<b>Urban</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>0154</b>	<b>Tati Jhariya</b>	<b>Total</b>	<b>8,903</b>	<b>48,549</b>	<b>24,061</b>	<b>24,488</b>	<b>8,373</b>	<b>4,317</b>	<b>4,056</b>
		<b>Rural</b>	<b>8,903</b>	<b>48,549</b>	<b>24,061</b>	<b>24,488</b>	<b>8,373</b>	<b>4,317</b>	<b>4,056</b>
		<b>Urban</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>0155</b>	<b>Daru</b>	<b>Total</b>	<b>9,105</b>	<b>52,305</b>	<b>27,022</b>	<b>25,283</b>	<b>7,950</b>	<b>4,143</b>	<b>3,807</b>
		<b>Rural</b>	<b>9,105</b>	<b>52,305</b>	<b>27,022</b>	<b>25,283</b>	<b>7,950</b>	<b>4,143</b>	<b>3,807</b>



**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



		Urban	-	-	-	-	-	-	-
0156	Barkatha	Total	20,203	122,269	62,849	59,420	22,324	11,483	10,841
		Rural	20,203	122,269	62,849	59,420	22,324	11,483	10,841
		Urban	-	-	-	-	-	-	-
0157	Chalkusa	Total	7,977	52,068	26,952	25,116	9,515	4,858	4,657
		Rural	7,977	52,068	26,952	25,116	9,515	4,858	4,657
		Urban	-	-	-	-	-	-	-
0158	Bishungarh	Total	26,309	156,477	79,009	77,468	27,438	14,244	13,194
		Rural	24,537	146,351	73,703	72,648	25,914	13,442	12,472
		Urban	1,772	10,126	5,306	4,820	1,524	802	722
368484	Bishnugarh	Urban	819	4,847	2,527	2,320	728	390	338
368485	Cherra (CT)	Urban	953	5,279	2,779	2,500	796	412	384
0159	Hazaribagh	Total	25,384	147,609	78,119	69,490	20,790	10,806	9,984
		Rural	20,483	118,276	62,156	56,120	16,978	8,803	8,175
		Urban	4,901	29,333	15,963	13,370	3,812	2,003	1,809
368578	Meru (CT)	Urban	1,281	7,780	4,740	3,040	911	484	427
368579	Marai Kalan (CT)	Urban	1,717	10,447	5,402	5,045	1,573	823	750
368580	Okani-II (CT)	Urban	1,903	11,106	5,821	5,285	1,328	696	632
0160	Katkamsandi	Total	18,363	108,361	55,413	52,948	18,751	9,549	9,202
		Rural	15,912	93,513	47,712	45,801	16,301	8,314	7,987
		Urban	2,451	14,848	7,701	7,147	2,450	1,235	1,215
368662	Palawa (CT)	Urban	2,451	14,848	7,701	7,147	2,450	1,235	1,215
0161	Katamda g	Total	14,462	82,385	42,581	39,804	13,446	6,866	6,580
		Rural	12,149	69,150	35,642	33,508	11,595	5,871	5,724
		Urban	2,313	13,235	6,939	6,296	1,851	995	856
368709	Masratu (CT)	Urban	1,052	5,996	3,161	2,835	904	483	421



**District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



368710	Kadma No-II (CT)	Urban	1,261	7,239	3,778	3,461	947	512	435
0162	Keredari	Total	17,635	91,357	46,827	44,530	14,823	7,561	7,262
		Rural	17,635	91,357	46,827	44,530	14,823	7,561	7,262
		Urban	-	-	-	-	-	-	-
0163	Barkagaoan	Total	25,760	136,839	70,358	66,481	22,108	11,481	10,627
		Rural	24,768	131,891	67,718	64,481	21,470	11,130	10,340
		Urban	992	4,948	2,640	2,308	638	351	287
368870	Urimari	Urban	992	4,948	2,640	2,308	638	351	287
0164	Churchu	Total	9,599	53,705	27,458	26,247	8,241	4,253	3,988
		Rural	8,353	46,863	23,847	23,016	7,401	3,804	3,597
		Urban	1,246	6,842	3,611	3,231	840	449	391

(Source: District Census Handbook, Hazaribagh)

### 3.5 Connectivity in Hazaribagh District

Hazaribagh district is surrounded by North- Gaya district of Bihar State and Koderma district, South- Ramgarh and Chatra district, East- Bokaro and Ramgarh district, West- Chatra district. The district of Hazaribagh is well served by a network of roads. Road & Railway communication is the main mode of transportation in this district. The roads are classified as the National Highways, State Highways, Major district roads and other district roads. Hazaribagh district is connected to Ranchi in Jharkhand by National Highway No. 33.

The nearest railway station is Hazaribagh (5 Km). You can board a bus, or hire a taxi or auto after reaching the station. The nearest airport is Birsa Munda Airport in Ranchi at a distance about 90 Km. The roads are well connected to Ranchi, Patna and other cities of Bengal. The nearest city to Hazaribagh is Ranchi which is 90 km away. Regular direct bus services from Patna and Ranchi are also available. The conveyance availability is quite easy in Hazaribagh. There are taxis, buses, auto rickshaws and cycle rickshaws which can be easily hired to commute within the city. However, being a hilly area there are times when the journey isn't much comfortable and is tiring.



**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**

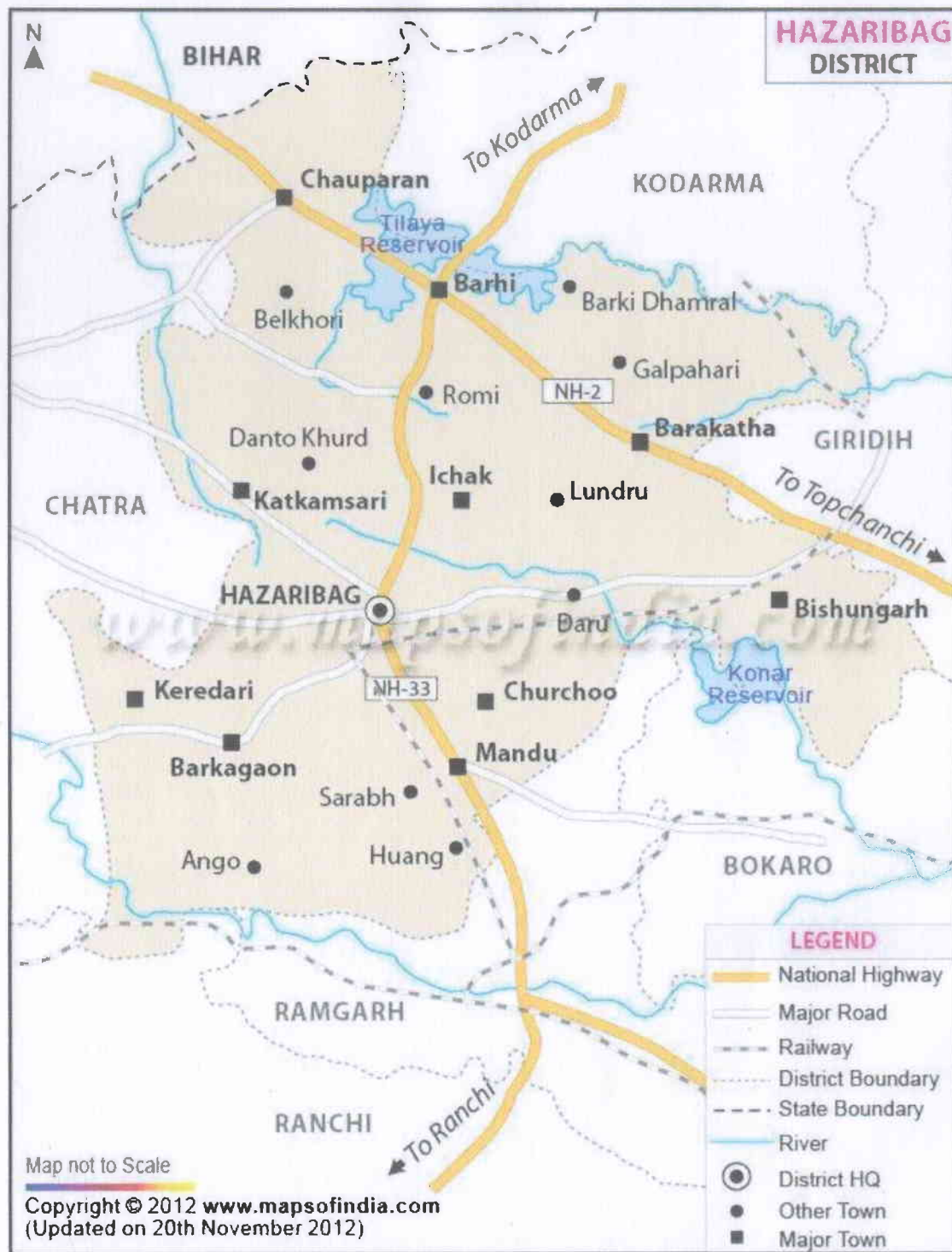


Figure 3-4: Road Map Hazaribagh District

(Source: <https://www.mapsofindia.com/maps/jharkhand/districts/hazaribagh.htm>)





Figure 3-5:- Railway Network Map Hazaribagh District

(Source: [https://commons.wikimedia.org/wiki/File:Hazaribagh\\_Railway\\_Network\\_map.jpg](https://commons.wikimedia.org/wiki/File:Hazaribagh_Railway_Network_map.jpg))

### 3.6 Floods in district Hazaribagh

The district is drained by two major rivers, the Damodar and the Barakar River with a few minor tributaries like Naikari, Bhera, Kusum, Bokaro, Mohana and kumari. The Naikari with drainage from the south and further down the Bhera joins the Damodar River. The Damodar and the Barakar rivers show structurally controlled pattern. The drainage here is highly dissected in criss-cross fashion.



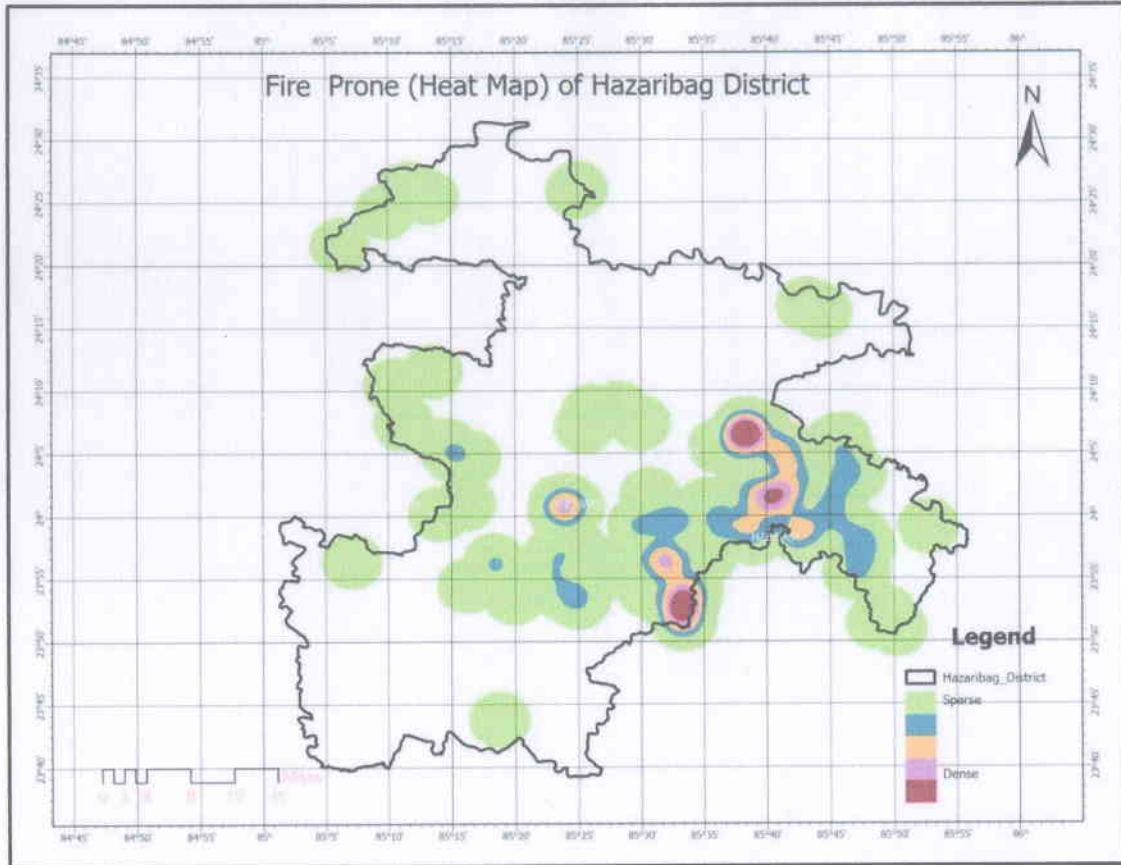
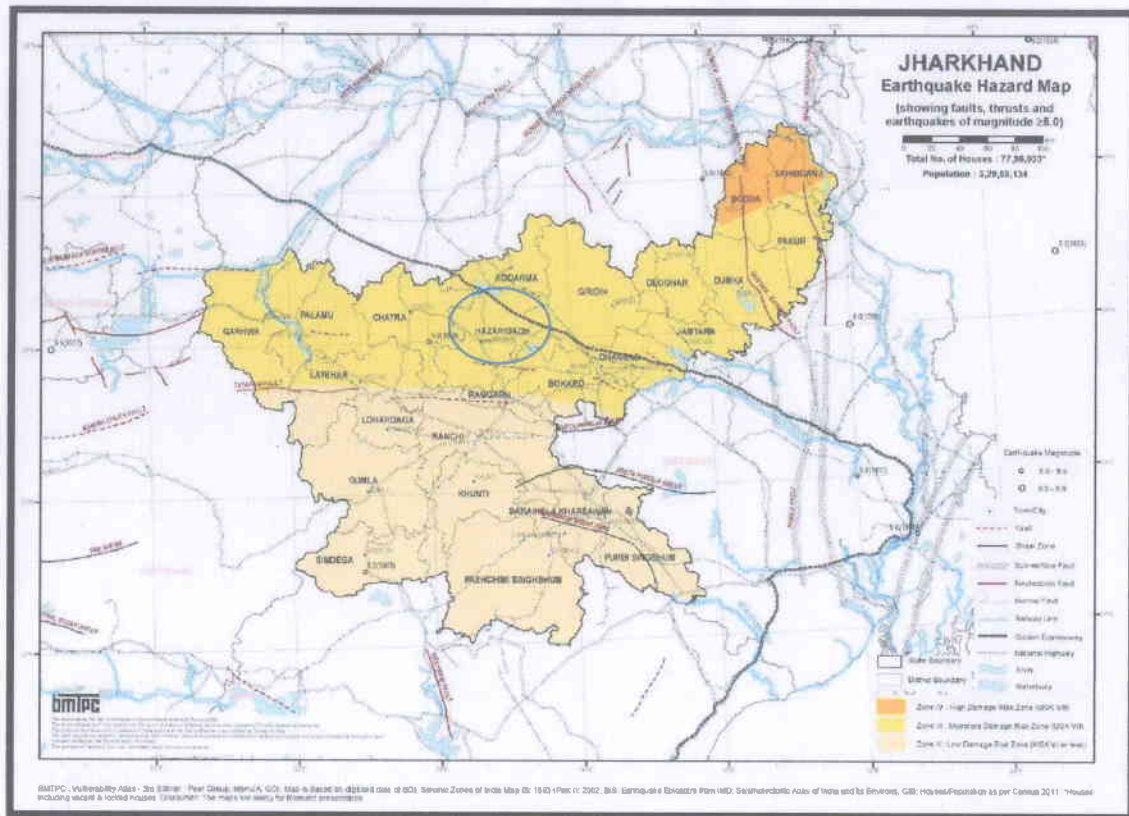


Figure 3-6:- Heat Map of Hazaribagh District (Jharkhand)

### 3.7 Seismicity

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





**Figure 3-7:- Jharkhand Earthquake Map**

**3.8 Flora**

The forest cover constitutes over 45% of the total area. Hazaribagh District is well endowed with forest in an area of 2560 Sq. km. Hazaribagh district is rich plant diversity, such as Timber Yielding Plants, Ornamental Plants, Medicinal Plants, Home Construction Plants etc. Among several others, the most commonly observable plants are – Babul, Sada Basak, Bel, Muktajuri, Neem etc.

**3.9 Fauna**

A map showing Wildlife Protected areas in Jharkhand state are furnished which depicts that there is a protected area in the district i.e. Hazaribagh Wildlife Sanctuary. Along with-it parts of Gautama Buddha Wildlife Sanctuary also extend into the district Hazaribagh.



**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**

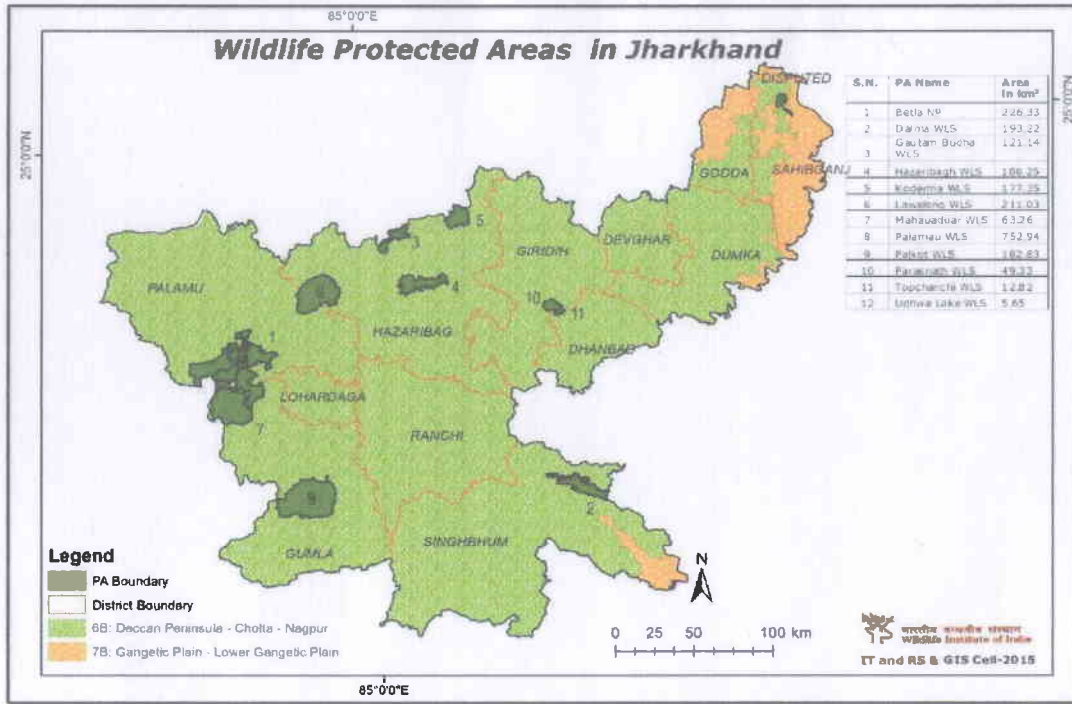


Figure 3-8:- Wildlife Protected area in Jharkhand District

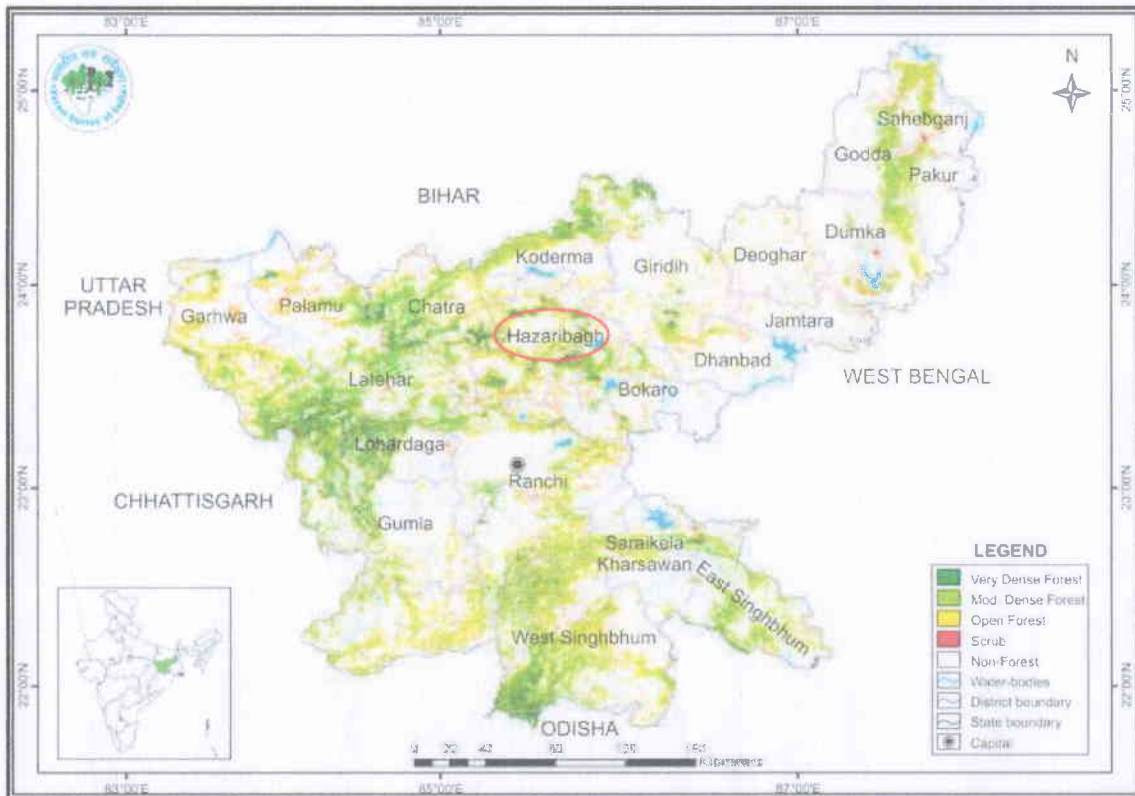


Figure 3-9:- Forest Cover Map of Jharkhand



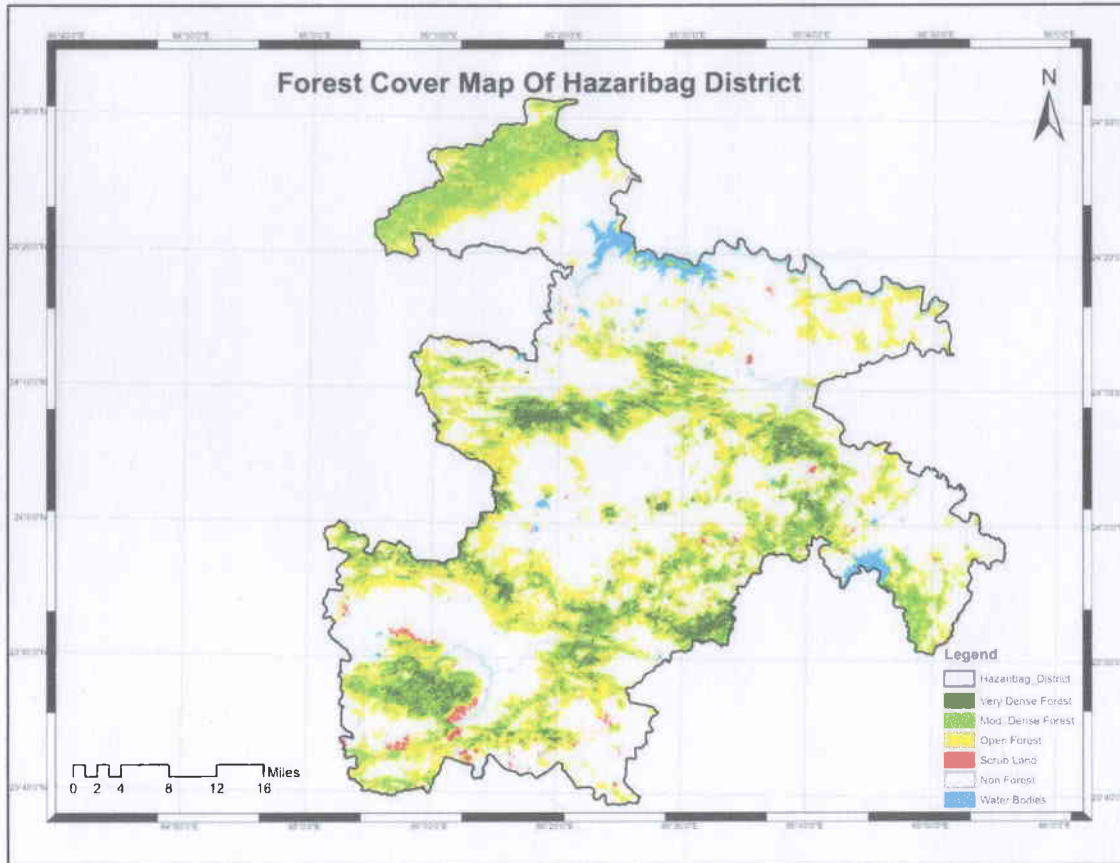


Figure 3-10:- Forest Cover Map of District Hazaribagh Jharkhand

### 3.10 PHYSIOGRAPHY

Physiographically, the district consists of plateaus, residual hills and valleys. The district can be divided into three divisions namely the central plateau, lower plateau and the Damodar valley. Hazaribagh town lies in central plateau part having an average elevation of 600 m above msl. The lower plateau is situated all around surrounding the central plateau height averages to 450 above msl. The Damodar valley region is situated in the southern part and extends through the blocks of Keredari, Barkagaon and Dari blocks. The general slope is from north-west to south east. Geologically the area is comprised with Archaean granites and gneisses with Gondwana series in the southern part of the district. Major river is Damodar and Barakar but there are few tributaries namely Jamunia, Baranki, Harohar etc. In general drainage has sub-dendritic pattern due to geomorphic controls. The elevation of the Hazaribagh district varies from 293-653 m asl.

### 3.11 Soil and rock pattern

Soil texture and structure impacts water holding capacity and infiltration rate through specific formation. Soil texture refers to the composition of the soil in terms of the proportion of small,



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medium, and large particles (clay, silt, and sand, respectively) in a specific soil mass. For example, a coarse soil is sand or loamy sand, a medium soil is loam, silt loam, or silt, and a fine soil is a sandy clay, silty clay, or clay. Soil structure refers to the arrangement of soil particles (sand, silt, and clay). Coarse soils have a higher infiltration rate than fine soils. Coarse soils with granular subsoils have higher permeability. Slow permeability is characteristic of moderately fine subsoil with angular to subangular blocky structure. Soil with a high percentage of silt and clay particles, has a higher water-holding capacity. The soil consists mainly of loam with a small proportion of sand and clay.

Major types of soils found in the district are.

- (a) Hill and forest soils of steep slopes and high-dissected region in Barkagaon, Bishungarh and Charhi blocks.
- (b) Red yellow and light grey soil in Barhi, Ichak, Katkamsandi, keredari and Hazaribagh blocks.
- (c) Pale yellow, yellow and pinkish deep soil on high micaceous schists in Daru, Churchu, Barkagaon and Katamdag blocks.



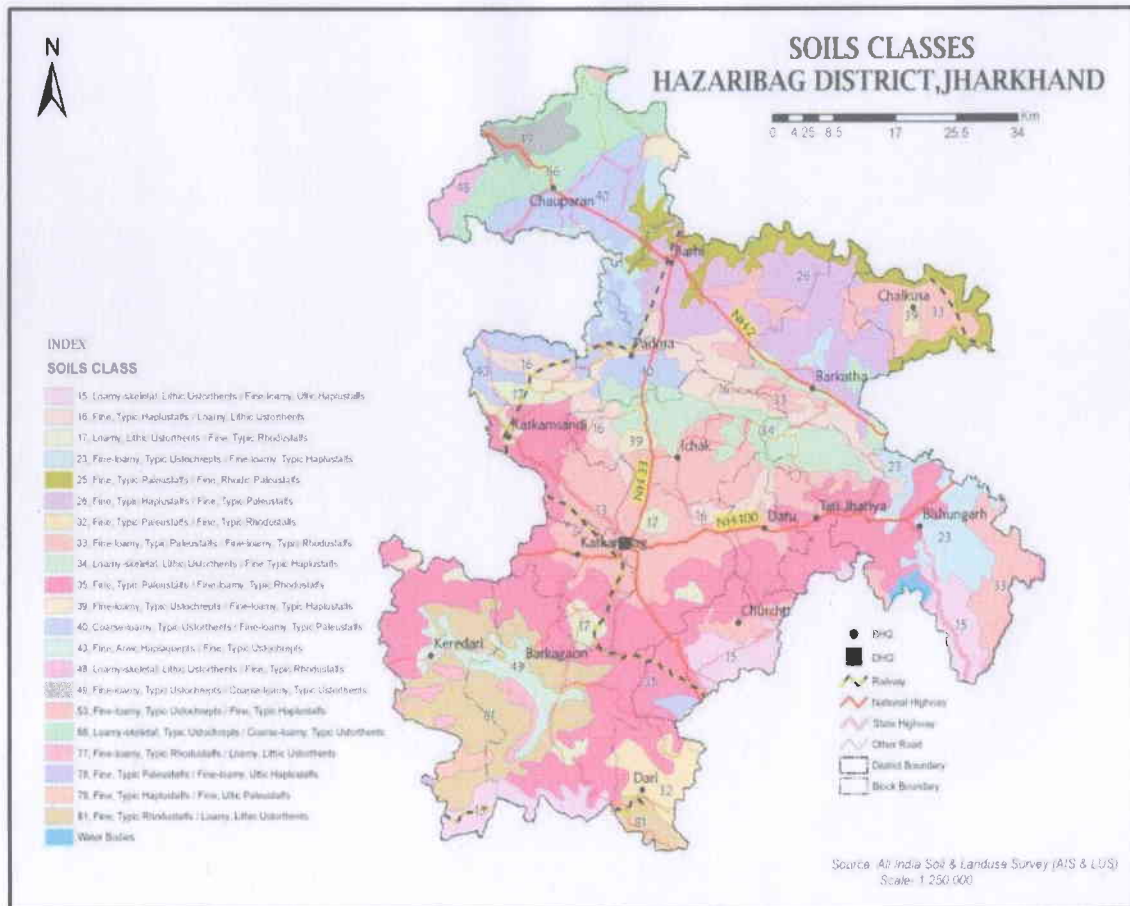


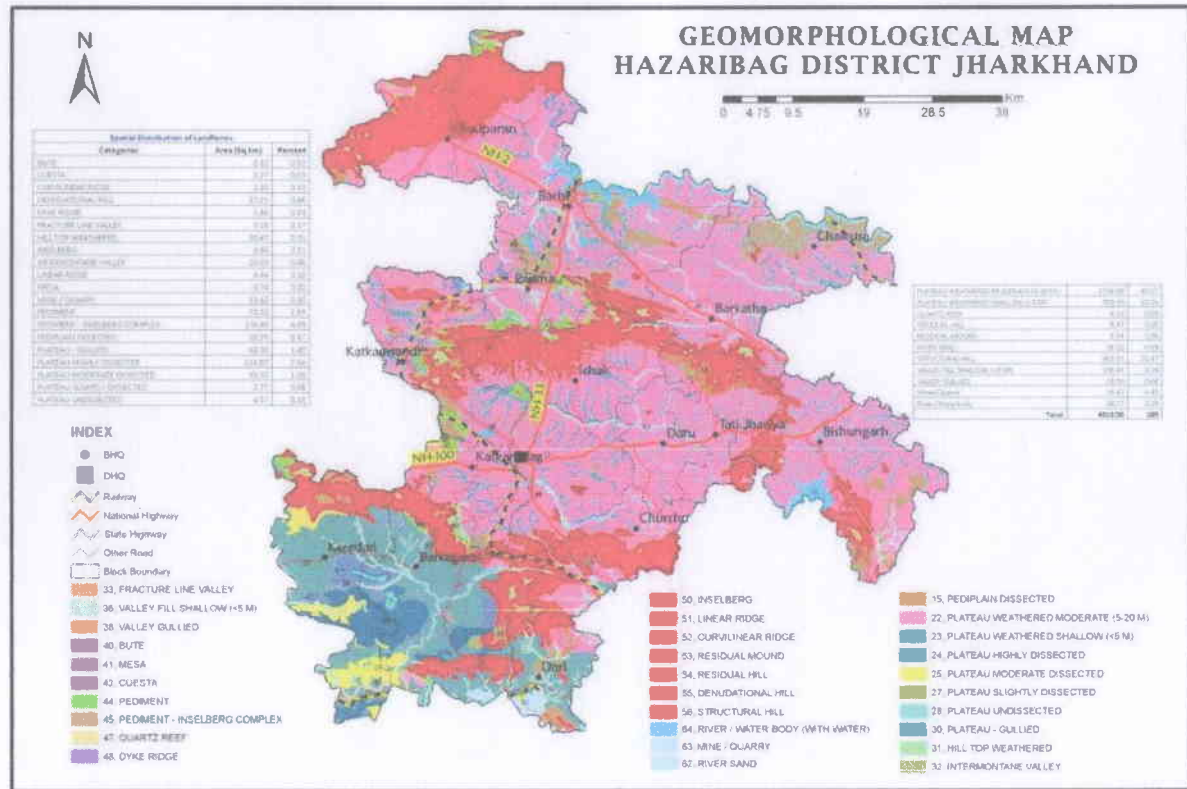
Figure 3-11:- Soil Classes Hazaribagh district

### 3.12 Geomorphology

The Hazaribagh Plateau Region consists of surfaces of varying elevations and reveals configuration of varying altitude, dimension and magnitude. The undulating surfaces, elevated plateaus, dissected scarps, east to west running through western rugged terrain, residual hills and valleys provide wide scope for geomorphological analysis. The region is located in humid sub-tropical climate, depicts its morphological character by the appearance, dimension and magnitude of slope. It is an ancient land-mass where weathering, fluvial erosion and earth's movements have played a significant role in shaping its present landscape.



**District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



**Figure 3-12:- Geomorphological Map Hazaribagh District**

**Table 3-3:- Geographical Profile of Hazaribagh District**

Particulars	Details
Latitude	23.9925° N
Longitude	85.3637° E
DMS Latitude	23° 59' 47.8320" N
DMS Longitude	85° 22' 8.7960" E
Area in (Sq Km)	3555 Sq Km
Height from sea level	2012 ft
Temperature	Min 18° to Max 42.2°
Rainfall	1234.5 mm
Climate	Summer(May-Jun), Winter(Dec-Feb),Rainy(Jul-Aug) Seasons
Main tribes	Birhor
Main minerals	Coal, Bauxite, Laterite, Dolomite, and Graphite, Granite, Quartz, Fireclay, Felspar etc
Main crop	Paddy, maize, cereals, wheat, oil seeds etc.
Languages Spoken	Hindi and Santhali



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Important rivers	Damodar and Barakar
Irrigated Land	13,368 Acres
Forest Land	2,088 (34.81%) Sq. Km
Nearest Railway St.	Hazaribagh
Nearest Airport	Birsa Munda Airport in Ranchi
Population density	488



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## **4 GEOLOGY & MINERAL WEALTH OF THE DISTRICT**

### **4.1 Regional Geology**

The oldest geological formation of the district is unclassified metamorphics represented by amphibolite, hornblende schist and meta diorite of Archean to Paleo-Proterozoic age. Chhotanagpur Granit Gneiss of Archean to Proterozoic age is overlying the unclassified metamorphics. Chotanagpur Granite Gneiss Complex mainly comprises quartz-biotite granite gneiss, augen gneiss and granite gneiss. The Gondwana Super Group is represented by boulder bed, sandstone shale and varved clay bearing Talchir formation at its base followed by Barakar, Kulti, Raniganj and Panchet Formations.

Barakar and Raniganj formations consist of sandstones and shales with coal seams whereas both Kulti and Panchet Formations are devoid of coal seams. Age of Gondwana Supergroup of rocks found in this area varies from Early Permian (Talchir Formation) to Late Triassic (Panchet). Rocks of the Gondwana Supergroup at places are intruded by dykes and sills of dolerite, lamprophyres and mica peridotites.

The oldest geological formations of the Hazaribagh district are composed of crystalline metamorphic rocks of Archean age. In these formations, found rock types of sedimentary and igneous origin. The sedimentary rocks were originally deposited as sandy, clayey and calcareous sediments, more or less impure. These sediments were consolidated as sandstones, shales and limestones of different composition and then were subjected to regional metamorphism and converted into quartzites (granulitic and schistose varieties), mica-ceous schists, crystalline, limestones, calc-silicate granulites and calc-gneisses and in some cases to amphibolite and hornblende-schists.

The above metamorphosed-sedimentary rocks were then intruded by magmas of both basic and acid composition, possibly in the earlier post-Archean times. The basic magma was of doleritic and noritic composition and is now represented by intrusive dykes and masses of metadolerites, metanorites and some of the epidiorites. These rock types usually occur as prominent hillocks in the area. The acid magma which intruded later than the basic magma had given rise to the granite pegmatite, aplites and some quartz veins of the area.

In the later post-Archean times, the metamorphosed sedimentary rocks and the igneous intrusives were subjected to the injection metamorphism due to which the rock types were formed, soaked, feldspathised, homogenised and granitised into streaky, augen and injection gneisses. Some of the gneisses and epidiorites of the area show typical rapikivi structure (ovoids of potash feldspar surrounded by rims of sodalime feldspar). The Geological map of Hazaribagh district is given in Fig. 6.1.

The above ancient rock types form the basement rocks of the Hazaribagh district. It was overlain by Lower Gondwana group of sedimentary strata including the coal bearing beds were laid down. These sediments are river deposits and were deposited in slowly sinking faulted troughs (basins) in the more or less then flat country composed of Archean-Proterozoic rocks, so that it was possible for the accumulation of several thousands of feet of river and stream deposits in definite linear tracts like the Jharia and the Raniganj coal-basins. At the



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commencement of the Lower Gondwana period (some 300 million years ago), there was a Glacial Age in India as is evident from the glaciated boulders deposited at the bottom of the Gondwana system of rocks and the presence of undecomposed felspar grains in the associated sandstones above them. The geological succession of Hazaribagh district is given.

## Geological Succession

Lithology	Formation	Group	Age
Alluvium	Quaternaries		Holocene
Sandstone, Shale	Panchet		Lower Triassic
Sandstone, Shale, Coal	Raniganj	Gondwana Supergroup	Permian
Sandstone, Shale	Kulti		
Sandstone, Grit, Shale, Carbonaceous Shale, Coal	Barakar		
Boulder bed, Sandstone, Shale, Varved clay	Talchir		Carboniferous to Lr. Permian
Granite Gneiss	Chhotanagpur Granite Gneiss Complex		Archean Proterozoic
Augen Gneiss			
Quartz-biotite Granite Gneiss			
Amphibolite, hornblende schist, Metadiorite	Unclassified Metamorphics		Archean to Lower Proterozoic

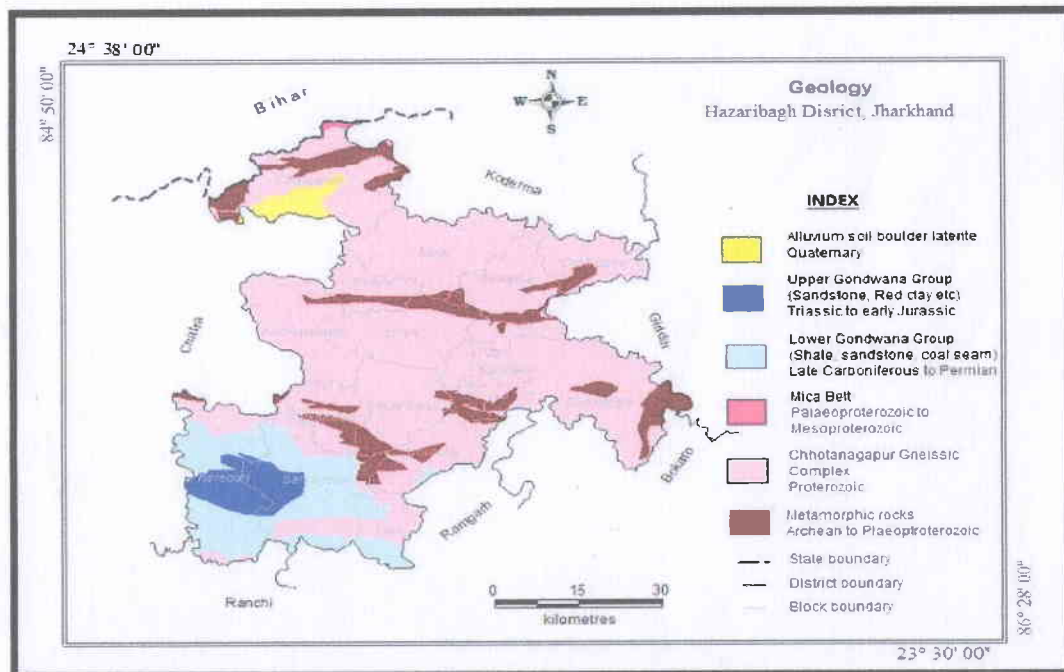


Figure 4-1:- Geological Map Hazaribagh District Jharkhand



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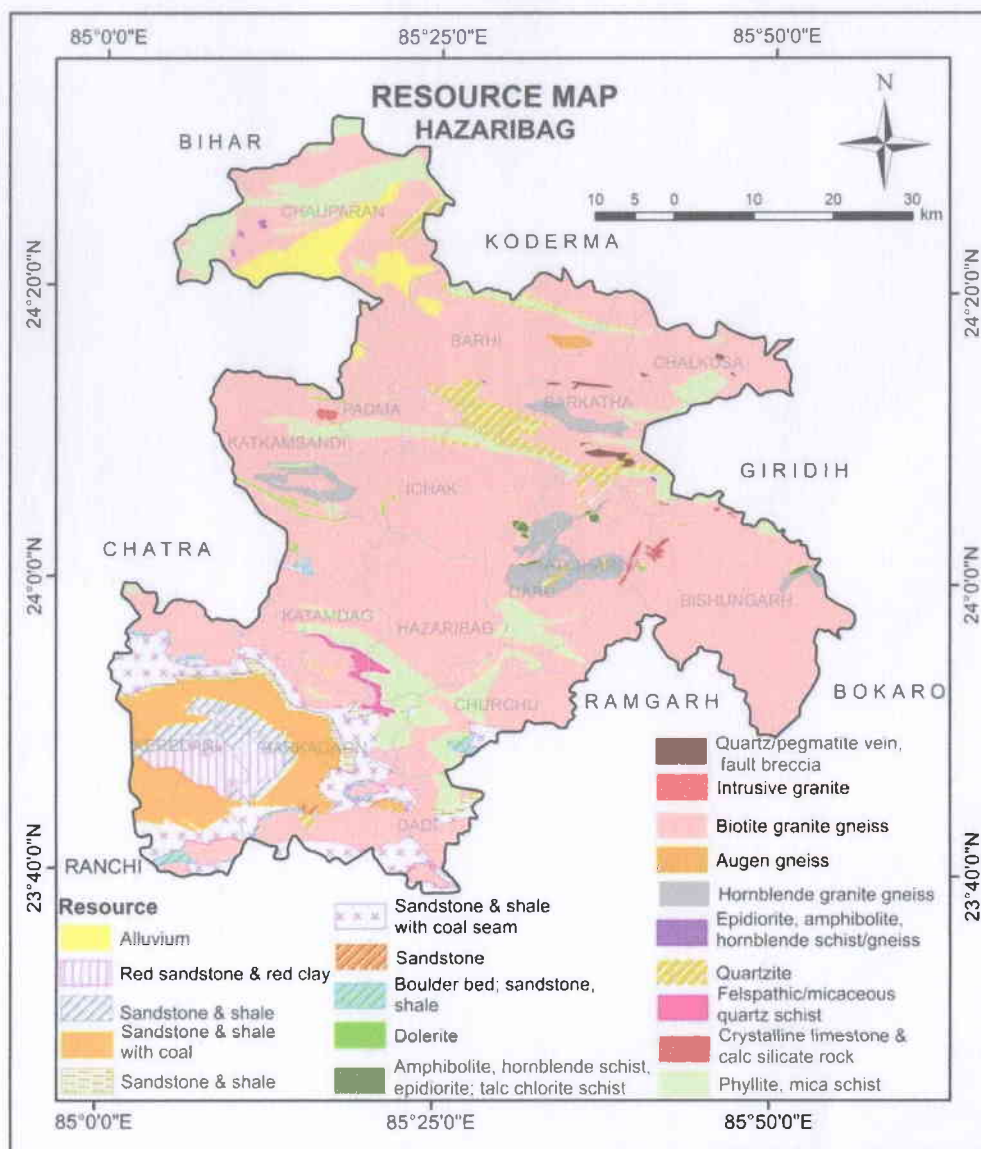


Figure 4-2:- District Resource Map, Hazaribagh, Jharkhand

#### 4.2 Mineral Resources

Various minerals have been reported to occur in the district of which Coal and Limestone are two major minerals found in the district. Among minor minerals Fireclay (Barkagaon, Barhi, Keredari, Churchu Blocks), Quartz, Felspar (Spread in all the Blocks where Granitic pegmatite are found), Granites (Ichak, Padma, Bishungarh), Building material (Stone Aggregate) in almost every location interspersed with dykes. Soapstone (Katkamsandi) have their presence in the district. Sandstone & Shale are also found with coal seams.

Coal is the major mineral found in this district. Apart from this, as on April 2018 there are 22



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operational and 29 non-operational stone mines and 48 number of potential producing kiln bricks in the non-cultivated land which are operative after all the statutory clearances as per departmental record. The district is rich in Biotite granite gneiss. Presence of Quartz/pegmatite vein is observed in some part of Barkatha and Chalkusha block. Quartzite deposit zone can be observed in the southern part of Barhi and Barkatha block, though Chauparan and Barkagaon is also having quartzite deposit. there,

As per the "Brief Industrial Profile of Hazaribagh District", carried out by MSME Development Institute, Ranchi, the district has approximately 115 Mineral based industries, which involve around 8619.25 Lakhs of investment and provide employment to around 3000 workers.

### **Coal: -**

Coal is one of the most important primary fossil fuels. The coal produced in the state is being used in Thermal Power Generation, Domestic Fuel, Furnace Heating, Generation of Combustible Gases and Metallurgical Fuel. This significant coal deposit reserves of this district include Charhi and Barkagaon of North Karanpura Coalfield. The coal mines are the main source of livelihood for the residents of this district.

### **Fire clay: -**

Sedimentary Rock consisting Aluminium Silicate, ( $Al_2O_3Fe_2O_3$ ,  $SiO_2$  etc.). A range of refractory clays having fusion points higher than  $1,600^\circ C$  comprising mostly Kaolinite Group of minerals, qtz and mica Fireclay are refractory clays, because they contain high concentrations of Alumina (Al) content. Formed due to alteration of Pelitic Rocks. They are confined to coal bearing strata and named after the overlying coal seams. Principle use of fire clay is in the manufacture of firebricks, crucibles, retorts, used in metalworking industries. Found in coalfield area of Hazaribagh District.

### **Limestone: -**

Limestone is a Carbonate sedimentary rock consisting at least 50% of calcium carbonate. There are different types of limestones formed through a variety of process. The limestone deposits of Hazaribagh are typically confined to Proterozoic formations. Limestone produced in the state is being used in Cement, Iron & Steel, Chemical, Sugar and Textile Industries limestone may also be used as a construction material. For example, crushed stone is used for road base and railroad ballast, aggregate in concrete. In Hazaribagh limestone found in





Kurkutta, Religara, and Bundu area.

**Granite Gneiss: -**

It is a foliated metamorphosed rock, identified by its bands and lenses of varying composition. Granite Gneiss is well exposed at several places in the district. It used in road construction, building site preparation and landscaping projects. After polishing can be used as slabs, countertops, floor tiles, cemetery monuments, etc.

**Sandstone: -**

Sandstone is a clastic sedimentary rock composed mainly of sand-sized mineral particles or rock fragments) or organic material. Sandstone is used for construction, decorative art works, housewares in constructing temples, homes, and other buildings. it is also a common building and paving material.

**Soapstone: -**

Soapstone is composed dominantly of talc, with varying amounts of chlorite and amphiboles. It may be schistose or massive. Soapstone is formed by the metamorphism of ultramafic protoliths and the metasomatism of siliceous dolomites. Soapstone is easy to carve, it is also durable, heat-resistant and has a high heat storage capacity. It has therefore been used for cooking and heating equipment, as an insulator for housing and electrical components.

**Decorative & Building material (Stone Aggregate): -**

Hazaribagh district has many varieties of rocks such as Granite, Gneiss, Dolerite, Amphibolite which have proved to be a good decorative stone. Other than decorative stone, building road materials are also found here.

Beside this Gemstones like Garnet, moonstone, tourmaline, beryl, amazonite are also found in the district.



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## **5 DRAINAGE SYSTEM & IRRIGATION PATTERN**

### **5.1 Drainage System**

The district is drained by two major rivers, the Damodar and the Barakar river with a few minor tributaries like Nalkari, Bhera, Kusum, Bokaro, Mohana and Kumari. The Nalkari with drainage from the south and further down the Bhera joins the Damodar River. The Damodar has I, II, III and IV order tributaries whereas the river Barakar has only II and III order tributaries namely Keso, Harhi, Barsot, Chandwara, Kolhuteri, Karkara and Kewta. In the southern portion of the district, river Konar has a second order tributary viz. the Siwane river which is flowing south to south-east. All these tributaries show dendritic to sub-dendritic drainage pattern typical of granitic terrain. The Damodar and the Barakar rivers show structurally controlled pattern. The drainage here is highly dissected in criss-cross fashion.



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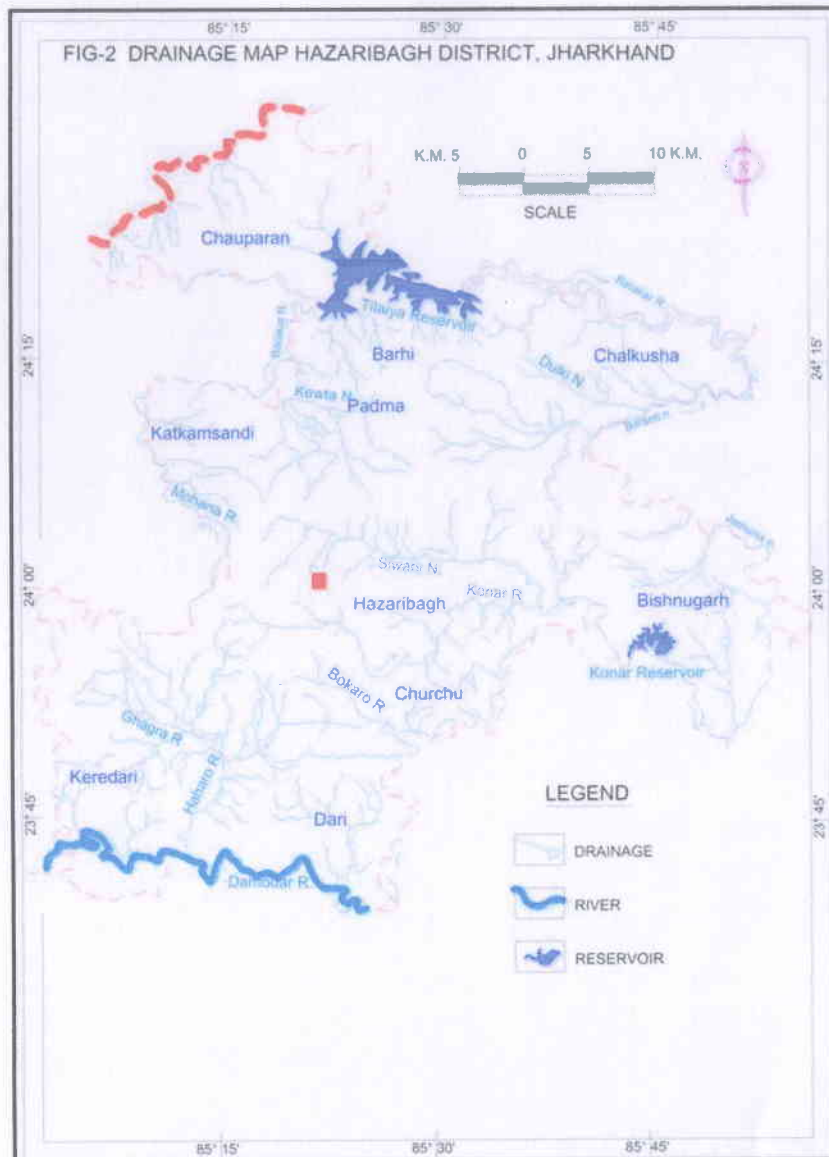


Figure 5-1:- Drainage map of Hazaribagh district

(Source: CGWB, Hazaribagh)

Table 5-1:- Details of major rivers of Hazaribagh District

River	Area drained (Sq. km)	% Area drained in the district
Badamahi	1.38	0.031
Barakar River	54.86	1.243
Barsoti	3.85	0.087
Damodar	19.47	0.441



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River	Area drained (Sq. km)	% Area drained in the district
Dhadhar	1.04	0.024
Garua	1.43	0.032
Ghaghra River	0.59	0.013
Haharo River	3.28	0.074
Horhori Nadi	0.99	0.022
larga River	0.36	0.008
Konar River	30.18	0.684
Siwane River	3.29	0.075

Table 5-2:- Salient features of important River & Streams

S. No.	Name of the River or Stream	Total Length in the District (in km)	Place of Origin	Altitude at Origin
1	Badamahi	12.42	Dunoresam (Barkagaon)	578
2	Barakar River	86.35	Bardeva (Padma)	580
3	Barsoti	31.19	Nagar Barsot (Barhi)	430m
4	Damodar	25.43	Chandwa (Latehar)	-
5	Dhadhar	5.17	-	-
6	Garua	15.15	Batuka (Keredari)	600m
7	Ghaghra River	10.83	Mathiya (Keredari)	620m
8	Haharo River	16.89	Mathiya (Keredari)	620m
9	Horhori Nadi	3.85	Mahudi Pahar, Near Niri(Keredari)	500m
10	Larga River	5.61	Near Durjanadih (Giridih)	380m



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11	Konar River	67.77	Sultana (Ktkrnd)	640 m
12	Siwane River	37.64	Belargara (Katkamsandi)	600m

**5.2 Irrigation Pattern**

The local population of the district mostly depends on agriculture and forestry for their sustenance. The agriculture activity of the area is solely dependent upon the monsoon rainfall. Paddy is the main crop of the district. Wheat, Maize, Gram, Mustard oil Potato and other crops grown widely in Hazaribagh and its adjoining areas. Irrigational facilities are not adequate in this district. The most common source is the dug well, but this is not a very dependable source of irrigation. The undulating nature of land makes it possible to store rain water by bunding. Apart from being dependent upon rains, these are by no means adequate. The result is that failure of rains invariably involves failure of crops except in small pockets. Minor irrigation structures like surface water, tanks and ponds are the other source for irrigation.





## 6 LAND UTILIZATION PATTERN OF THE DISTRICT

### 6.1 Land Use

As per 2023 land use pattern, Land use is the term used to describe the human use of land. It represents the economic and cultural activities (e.g., agricultural, residential, industrial, mining, and recreational uses) that are practiced at a given place. Looking into the different land use patterns of Hazaribagh district, the maximum area (about 35%) is being utilized by forest land cover followed by agriculture, crop land. A very small percentage area is under Barren/Unculturable/Wastelands. Fig 8.1. shows the different land use patterns of Hazaribagh district and also their graphical representations. Table 8.1. shows the area under different land use patterns and their percentages. Amongst all land use patterns water use involved mainly in agriculture, mining and urban areas.

Table 6-1:- Land use pattern of the Hazaribagh District

Sl. No.	LULC Class	Area (Ha)	Area (%)
1	Builtup Land	9955.13	2.29
2	Agriculture land	58824.30	13.55
3	Agricultural Fallowland	173042.00	39.87
4	Open land	10808.70	2.49
5	River/Water Bodies	4042.03	0.93
6	Riverbed	1384.42	0.32
7	Vegetation	9393.37	2.16
8	Forest	155880.00	35.92
9	Scrub Land	7489.89	1.73
10	Mining area	3196.29	0.74
<b>Total</b>		<b>434016.13</b>	<b>100</b>



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# District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.

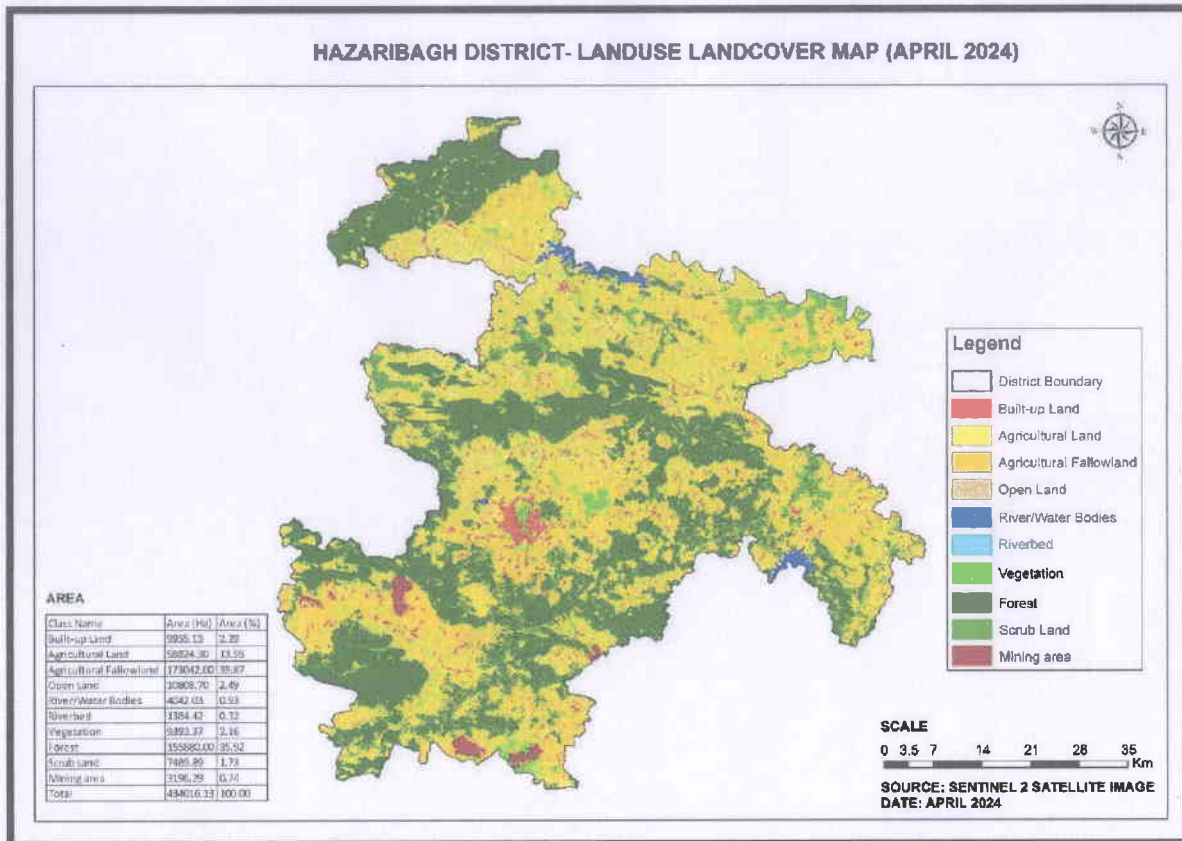


Figure 6-1:- Land use Map Hazaribagh District



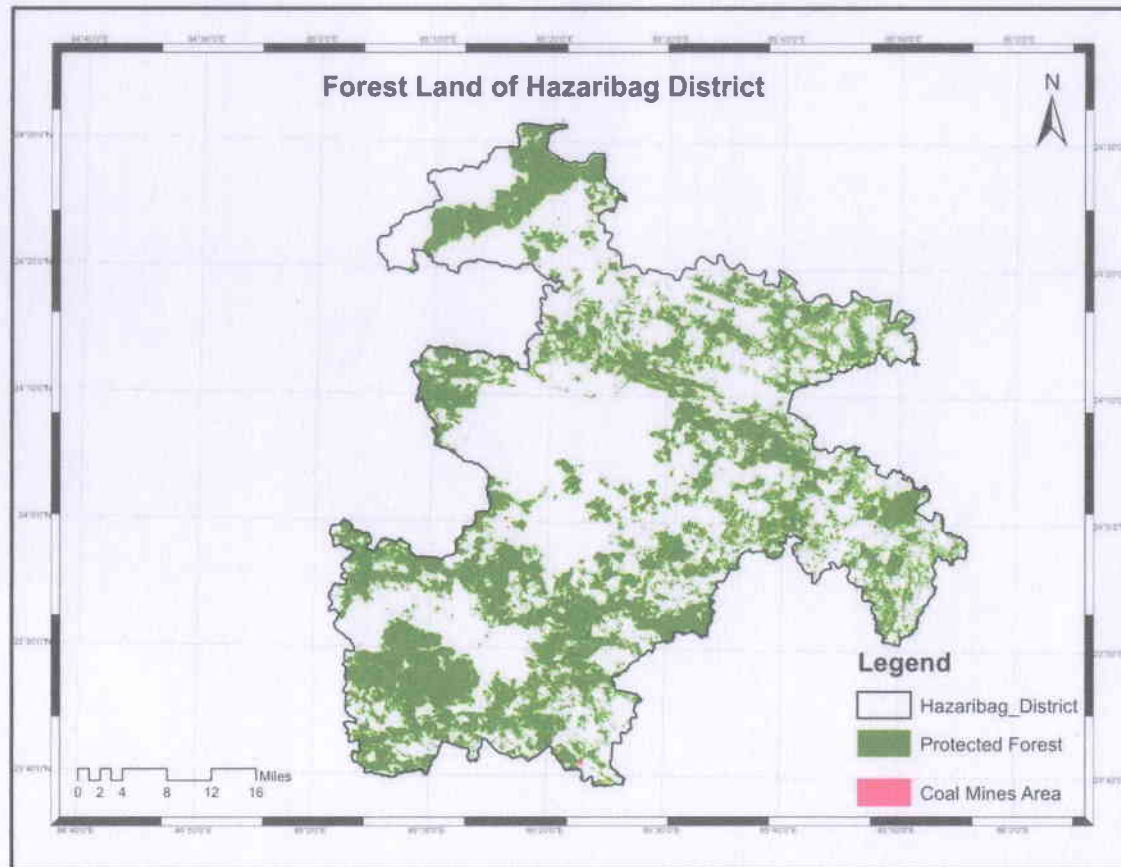


Figure 6-2:- Forest Land Map of Hazaribagh District

The forest area of this district is full of medicinal plants and trees. Due to negligence and lack of awareness they are on the verge of extinct. Leopards, bears, jackals and foxes etc freely move in these forests. In the winter season several foreign birds visit these forests areas.

## 6.2 Cropping pattern

Most parts of this district are full of forests and stones. The cultivable land can be divided into two parts namely – Upper land and Lower land. The lands situated on the banks of rivers are fertile. One can get good crop even after using lesser amount of fertilizers in these lands. But the upper land is barren. A huge amount of fertilizers and irrigation is required for cultivation in these lands. Rabi and Kharif crops are generally sown here.

The main agricultural seasons in the district are Kharif that starts from the third week of May and lasts till the end of the October. Early varieties of paddy like maize, arhar, etc. are grown. Rabi starts at the end of October and lasts till end of March. The main crops grown in this period are wheat, mustard, gram, barley, potato, etc. Zaid season that begins from March lasts



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till middle of May. In this period mostly vegetables, like Cauliflowers, Tomato, Lady finger, French beans, etc. are grown.

Hazaribagh district comes under central and north-eastern plateau zone of eastern plateau and hills agro climatic region. Based on the agro- climatic conditions, the major fruit crops grown in the district are Rice, Wheat, Maize, Ragi, Potato, Arhar, Rapeseed-Mustard, Gram, Other Pulses and Niger. The major vegetable crops grown are Potato, Cauliflower, Cabbage, Onion, Tomato, Chillies, Brinjal, Bhindi and Leafy vegetables.

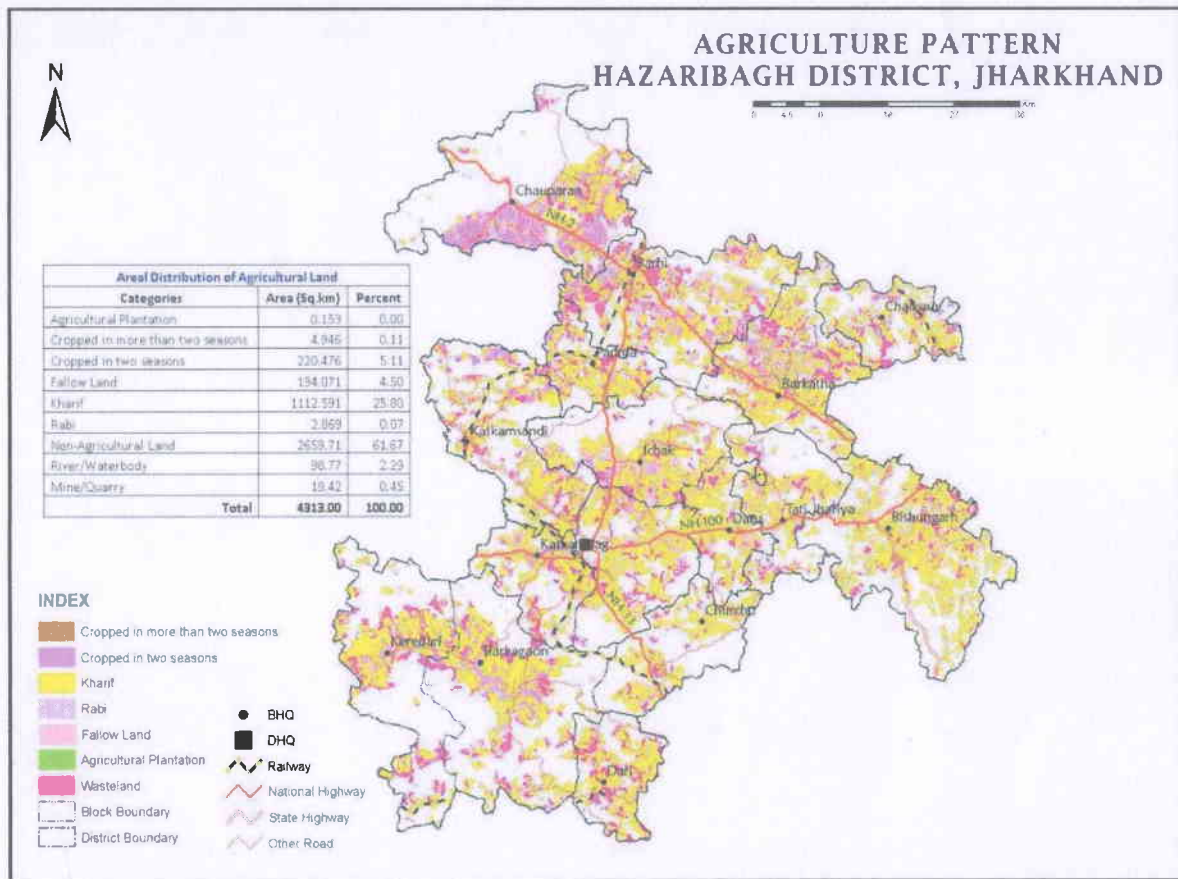


Figure 6-3:- Agriculture Pattern Map Hazaribagh District





## 7 SURFACE WATER & GROUND WATER SCENARIO OF THE DISTRICT

### 7.1 Hydrogeology

Hazaribagh district situated in Damodar River basin and Barakar River sub basin. The district have a complex hydrogeological condition. The occurrence and movement of ground water in the area is variable. Based on morpho-genetic, geological diversities and relative ground water potentialities of the aquifers, the district can be broadly divided into two hydrogeological units: Aquifer I Unconsolidated formations, Aquifer II: further divided into i) Semi-Consolidated and ii) Consolidated formations (Fig.9.1).

- 1 Unconsolidated formation : Quaternary Alluvium, soil and laterites, covering very small part of north portion of the district (yield varies 0.8 to 2.8 lps)
- 2.i) Semi-Consolidated formation : Gondwana formation, consisting shale, sandstone, coal seam etc., covering southern part of the district. (yield varies 0.8 to 7.8 lps)
- 2.ii) Consolidated formation : Archean to Proterozoics consisting of Chhotnagpur Gneissic Complex covering the maximum area and highly metamorphosed rocks (yield varies 0.2 to 4.45 lps).

Water table contour (Fig.7) has been prepared using height of water table in different locations in pre-monsoon season. The general slope is NW to SE. Water table contour map reflects that in the western and central part, water table is relatively higher (at a height of 553 m to maximum 648 m) compared to other part of the district, which forms a flat platue like water table zone, includes the Hazaribagh, Katkamdag and Daru block along with parts of Tatijharia, Bishungarh, Katkamsandi and Ichak block. The ground water gradient is from west central part to the north, south and eastern part of the district. The ground water flow follows the water table gradient. The flow direction has been marked in the figure. The flat-water table in the west central part may be favorable for water recharge in rainy season, but with water level lowering the area might have experience drought situation as well.



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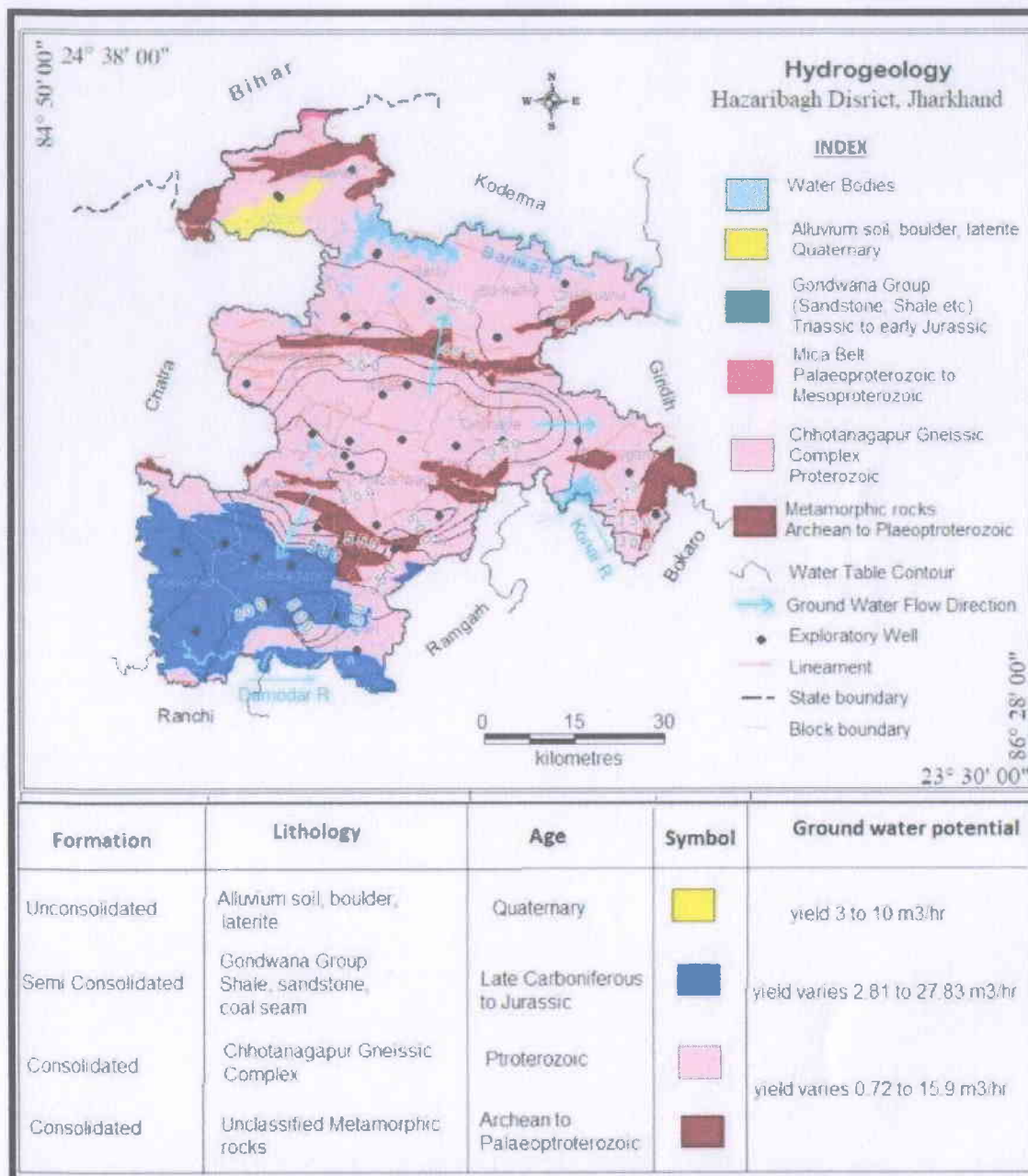
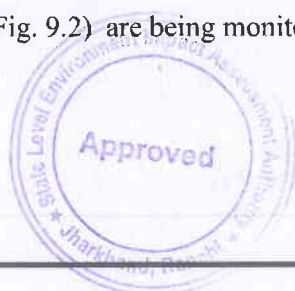


Figure 7-1:- Hydrogeology map of Hazaribagh District

(Source: Central Ground Water Board, Hazaribagh 2023)

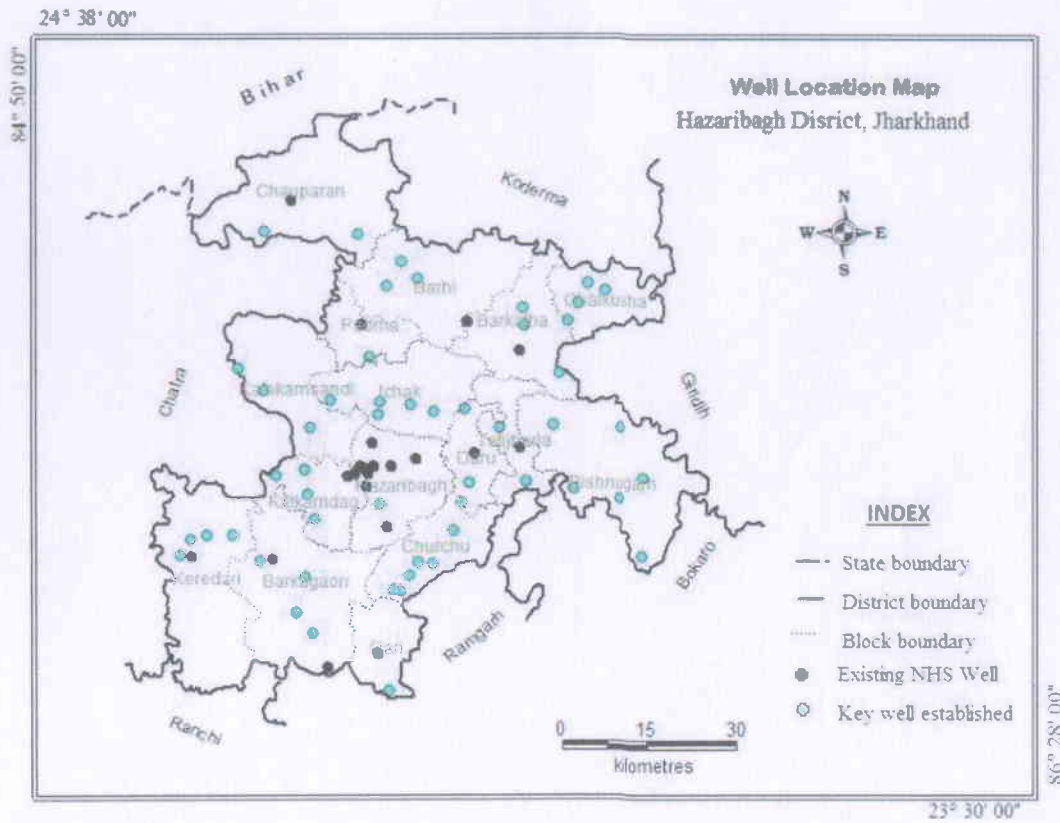
### 7.2 Depth to Water Level

To study the ground water behavior, all over the district total 21 National Hydrograph Monitoring Stations (Fig. 9.2) are being monitored four times a year May, August, November and January.



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*Figure 7-2:- Location of National Hydrograph Monitoring Stations*

**Premonsoon 2022**

After addition of 52 no. of key wells water level data with previous NHS dug wells. The depth to water level map premonsoon 2022 (Fig. 9.3) shows maximum area of the district shows depth to water level 5 to 10 mbgl, small portotion of southern, western and south western part shows 31 depth to water level within 2 to 5 mbgl during premonsoon season. Very small portion in central, northern and southern part shows depth to water level more than 10 m.



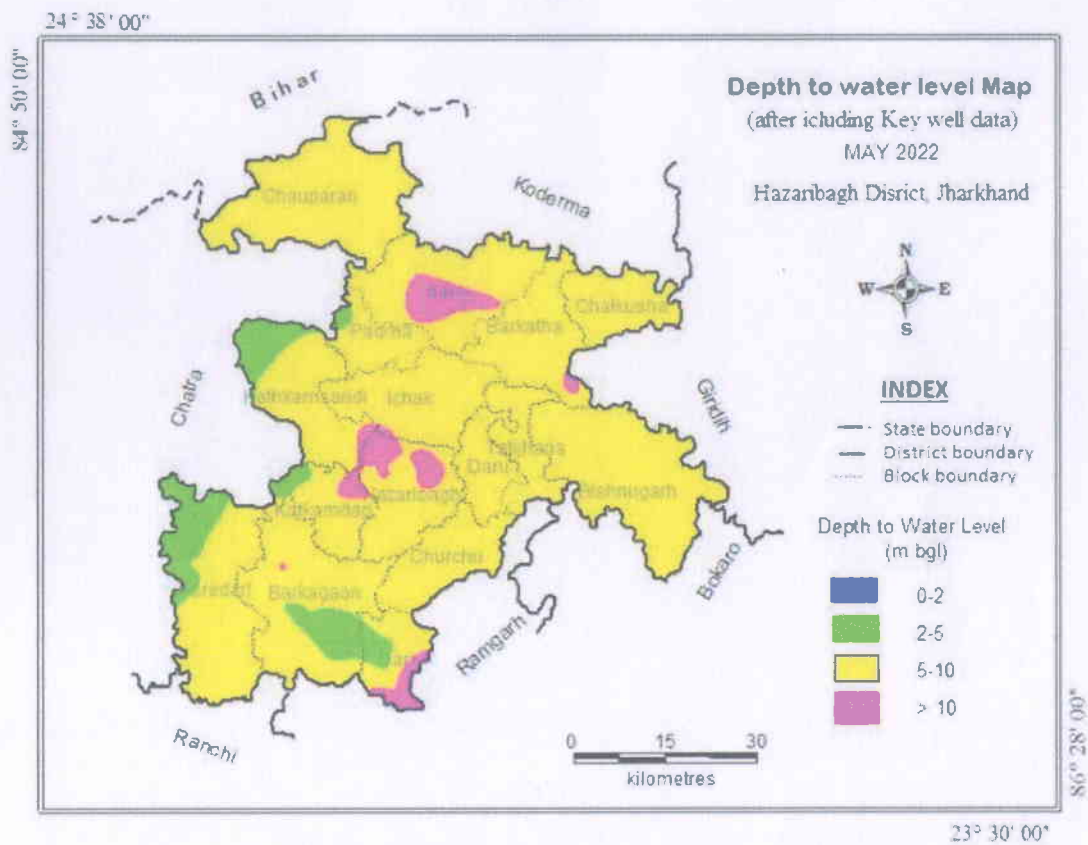


Figure 7-3:- Depth to water level map- premonsoon 2022

**Post-monsoon 2022**

The post monsoon depth to water level varies from 0.95 m bgl (Paseria, Barkagaon) to 11.85 (Panmadhav, Barhi). The map (Fig.9.4) shows maximum area covered depth to water level range 2 to 5 m bgl during post monsoon. In north and mid part depth to water level between 5 to 10 m bgl has been observed. Only small part in south east of the district covering part of Daru and barkagaon block shows depth to water level within 2 m bgl. And small part of Barhi block shows depth to water level deeper than 10 m.



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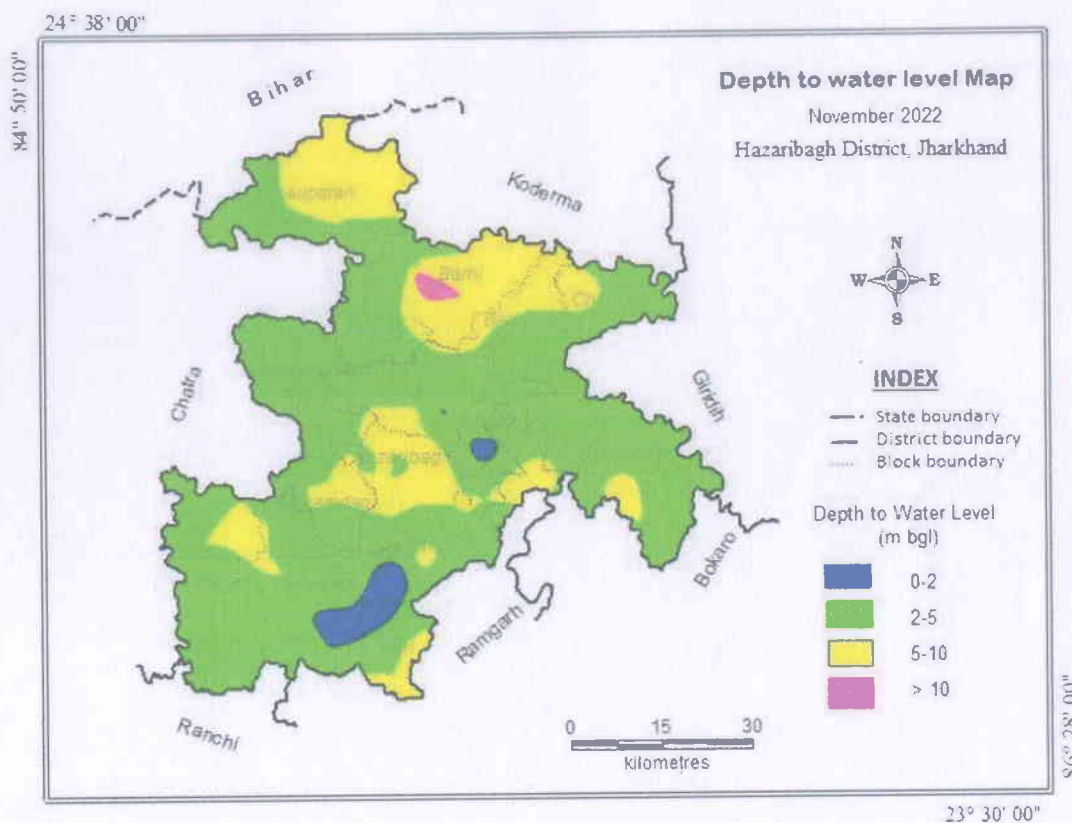


Figure 7-4:- Depth to water level map- post-monsoon 2022

The depth to water level varies between 2.3 to 16.75 m bgl and 0.95 to 11.85 m bgl with the average of 7.59 m bgl and 4.40 m bgl during pre-monsoon and post-monsoon seasons respectively, indicating good recharge from rainfall (Fig.9.3 & 9.4). In pre-monsoon season maximum area (88.3% of the total area) shows depth to water level within the range of 5-10 m bgl, whereas in post monsoon season the range of water level covers only 25.93% of the total area. The area with depth to water level range of 2 to 5 m bgl increased from a coverage of 7.13% in pre-monsoon to 70.76% in post monsoon. During the later season, only 0.3% of the district area depicted water levels >10 m bgl. Depth to water level fluctuation from Pre to post monsoon varies from 0.4m (Bhelwara, Hazaribag block) to 6.5m (Barkagaon, Barkagaon block). The water level fluctuation data of post monsoon 2022 with respect to pre monsoon 2022, shows maximum area (68.67%) had a rise in water level within the range 2 to 4 m.

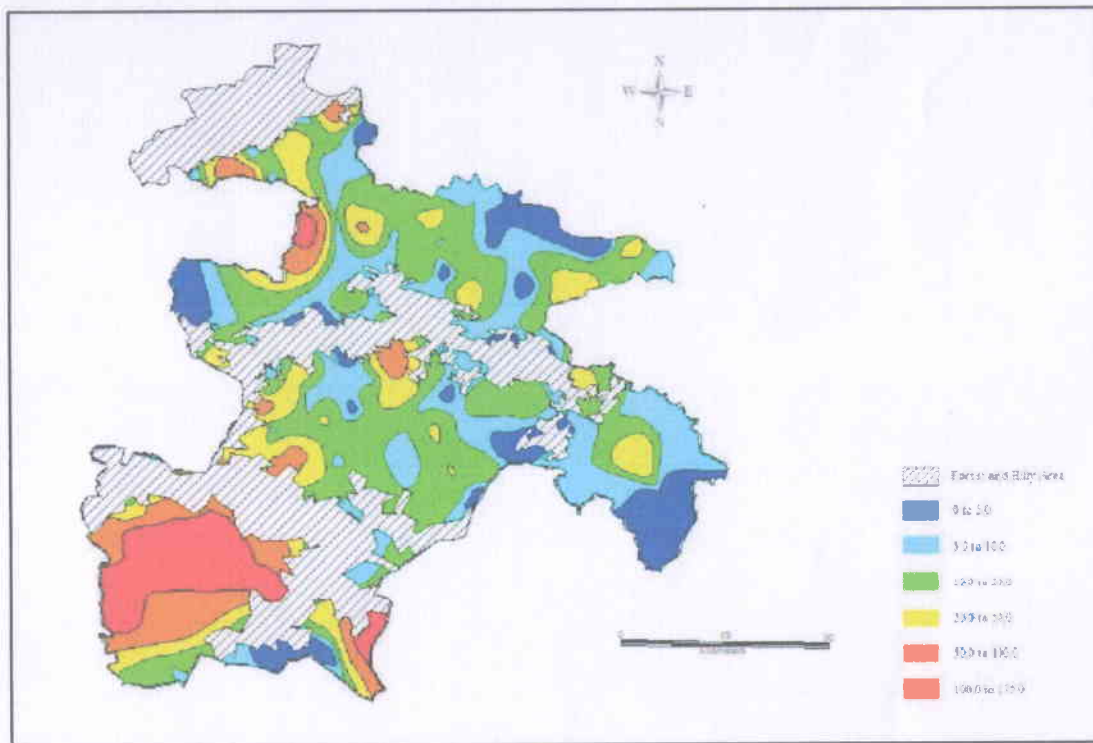
**Depth to Bed Rock (based on VES interpretation)**

A depth to bed rock contour map (Fig.9.5) was prepared based on the interpreted VES data. From the interpretation, it was inferred that in the northern part of the district, the depth to bed





rock varies between 0-20.0 m in major portions with higher depth at a few areas. A north-south trend was observed which is structurally controlled and the direction of river flow indicates presence of a weak plane in that direction. Again, the depth to bed rock at the central portion of the district is found to be in the range 0-20.0 m. In this portion, a major trend line is observed in the east-west direction. The thickness of the weathered zone is controlled by the presence of fractures in the area. The depth to bed rock at the south western portion of the district is found to be in higher range. The interpreted depth came out to be greater than 100.0 m. This is due to presence of sandstone along with coal seams.



*Figure 7-5:- Depth to bed rock contour map of Hazaribagh district*

### **7.3 Ground Water Quality**

The quality of water plays prominent role in promoting both the standards of agriculture production and human health. To evaluate the quality of ground water pre-monsoon 2022, 63 samples from dug wells and 71 samples from hand pump have been collected which represent the quality of dug wells / shallow zone (Aquifer I) and hand pump /deeper zone (Aquifer-II). The analytical results of water samples from dug wells / shallow zone (Aquifer I) and hand pump /deeper zone (Aquifer-II) are given in Annexure-V and Annexure VI respectively with



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## District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.



minimum, maximum range and average value. The values above permissible limit have been highlighted by colour. The ground water samples were analyzed for major chemical constituents by using standard procedure at chemical laboratory in CGWB, MER, Patna. These samples have been considered to assess the chemical quality of ground water and its suitability for drinking and irrigational purposes. Since the samples are collected from the dug wells, they represent the quality of Aquifer I (phreatic/ shallow zone) and samples collected from the hand pump, represent the quality of (deeper zone) Aquifer-II.

### 7.4 Ground Water Resources

Estimation of ground water resources has been carried out based on the methodology recommended by the Ground Water Estimation Committee, 2015 (GEC -2015). The present assessments of 2022 have been carried out, through IN-GRES, the purpose-built software developed by IIT Hyderabad and powered by Vassar Labs. IN-GRES software modules were used in Computations which is based on GEC 2015 methodology. The assessment of ground water includes assessment of dynamic and in-storage ground water resources, but the development planning should mainly depend on dynamic resource only as it gets replenished every year. Changes in static or in-storage resources reflect impacts of ground water mining. Such resources may not be replenishable annually and may be allowed to be extracted only during exigencies with proper recharge planning in the succeeding excess rainfall years.

Table 7-1:- Block wise Ground Water Resources(ha-m) of Hazaribagh District as on 2022

Sl. No	Assessment Unit/District	Annual Extractable Ground Water Resource	Current Annual Ground Water Extraction				Annual GW Allocation for Domestic use as on 2025	Net Ground Water Availability for future use	Stage of Ground Water Extraction	Categorization of Assessment Unit
1	Barhi	1772.44	251.74	19.57	764.87 5	1036.1 8	253.0581	734.95	58.46	safe
2	Barkagan	3488.3	251.1	43.01	433.25	727.36	252.4148	2759.62	20.85	safe
3	Barkatha	1525.14	221.45	0	720.25	941.71	222.6095	582.26	61.75	safe



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**District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



Sl. No	Assessment Unit/ District	Annual Extractable Ground Water Resource	Current Annual Ground Water Extraction				Annual GW Allocation for Domestic use as on 2025	Net Ground Water Availability for future use	Stage of Ground Water Extraction	Categorization of Assessment Unit
4	Bishung arh	1799.81	290.08	9.44	840	1139.52	291.5989	658.77	63.31	safe
5	Chalkus ha	769.13	94.31	0.44	145	239.75	94.80381	528.89	31.17	safe
6	Chauparan	4789.36	296.61	5.03	697	998.63	298.163	3789.18	20.85	safe
7	Churchu	1445.88	101.78	90.59	521.25	713.61	102.3129	731.74	49.35	safe
8	Dari	973.1	159.3	41.15	374.125	574.56	160.1341	397.71	59.04	safe
9	Daru	934.46	94.74	0	603	697.73	95.23606	236.24	74.67	Semi-critical
10	Hazaribagh	2233.07	638.59	30.48	472.625	1141.69	641.9337	1088.03	51.13	safe
11	Ichak	1472.24	204.33	0	423.125	627.46	205.3999	843.71	42.62	safe
12	Katkam dag	1131.32	157.93	25.79	357.25	540.98	158.7569	589.51	47.82	safe
13	Katkam sandi	1515.96	206.04	11.5	375.75	593.3	207.1188	921.58	39.14	safe
14	Keredari	3696.24	165.47	193.27	508.875	867.61	166.3364	2827.77	23.47	safe
15	Padma	898.91	101.45	0	120	221.45	101.9812	676.93	24.64	safe
16	Tatijharia	1157.02	87.93	0	495	582.94	88.3904	573.62	50.38	safe
	<b>Total</b>	<b>29602.38</b>	<b>3322.85</b>	<b>470.27</b>	<b>7851.38</b>	<b>11644.5</b>	<b>3340.25</b>	<b>17940.51</b>	<b>39.34</b>	

(Source: Central Ground Water Board, Hazaribagh)



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*Table 7-2:- Block wise Water level behaviour in Hazaribagh*

Sl.No	District	Administrative Block	Depth to water level		Rainfall (mm) Actual 2019-20	Normal Rainfall (mm)	Number of Ground Water Abstraction Structures for Irrigation (As per 4th & 5th MI Census)								
			Pre Monsoon (mbgl)	Post Monsoon (mbgl)			DW		STW		DTW				
							4th MI	5th MI	4th MI	5th MI	4th MI	5th MI			
1	Hazaribagh	Barhi	7.7 - 16.75	2.75 - 11.85	1048.5	1251.2		1784				0			1
2	Hazaribagh	Barkagaon	2.3 - 10.1	0.95 - 5.85	800	1251.2	295	1014				2	1		1
3	Hazaribagh	Barkatha	5.7 - 10.35	2.8 - 5.45	1056.4	1251.2	785	1877				7			9
4	Hazaribagh	Bishnugarh	5.2 - 9.85	2.59 - 6.29	1279.8	1251.2		2064				1			0
5	Hazaribagh	Chalkusa	7.05 - 9.8	4.2 - 7.1	1049.1	1251.2		535				0			0
6	Hazaribagh	Chauparan	5.95 - 8.1	2.4 - 5.6	831.1	1251.2	167	993				13			1
7	Hazaribagh	Churchu	5.4 - 9.33	4.2 - 7.1	1526	1251.2		1279				2			0
8	Hazaribagh	Dari	4.8 - 11.5	2.64 - 4.45	1358.4	1251.2		815				2			1
9	Hazaribagh	Daru	6.05 - 7.6	3.7 - 5.37	1285.5	1251.2		1600				0			0
10	Hazaribagh	Hazaribagh	3.25 - 11.2	1.68 - 9.02	1302	1251.2	1	1074				10			1
11	Hazaribagh	Ichak	5.8 - 9.75	1.98 - 7.85	1268.9	1251.2	234	992			1	0			1
12	Hazaribagh	Katkamsandi	3.25 - 9.4	3.7 - 4.4	855	1251.2	1	914				1			0
13	Hazaribagh	Katkmadag	4.55 - 7.75	2.79 - 5.8	1031.8	1251.2		781				0			1
14	Hazaribagh	Keredari	3.65 - 9.6	3.32 - 6.98	1212.9	1251.2	1	1245				11			0
15	Hazaribagh	Padma	5.37 - 7.5	3.05 - 4.78	1189.9	1251.2	503	295				0			0
16	Hazaribagh	Tatjhanra	5.35 - 8.1	2.76 - 5.97	1255.9	1251.2		1215				1			0
<b>Total</b>							<b>1987</b>	<b>18477</b>	<b>1</b>	<b>50</b>	<b>1</b>	<b>50</b>	<b>1</b>	<b>16</b>	

From fracture analysis, within the maximum drilled depth of 203 m bgl. Up to the depth of 100 m bgl, fractures systems re evident in the depth ranges of 50-55m & 80-85m bgl.



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Table 7-3:- Details of Exploratory wells, drilling data and pumping test data

SL.No	Location	Latitude	Longitude	Depth Drilled	Discharge m <sup>3</sup> /h	Transmissivity m <sup>2</sup> /day	Storativity
1	B.B.University	24.02295	85.37212	136.56	8.6		
2	B.B.University	24.02298	85.37215	136.58	9.6		
3	Zila School	24.00005	85.36322	172	0.9		
4	Ichak	24.09151	85.42552	184	0.9		
5	Padma	24.20748	85.36431	62	3		
6	Padma	24.20752	24.20752	166	3		
7	Charhi	23.85988	85.44477	62	30	1.36	2.2*10 <sup>-4</sup>
8	Charhi	23.85988	85.44398	129.81			
9	Charhi OW	23.86061	85.44548	135	6.84		
10	High School	24.30082	85.4156	125.1	6		
11	Block Compound	24.30335	85.41793	118.41	14.52		
12	Barkatha	24.17741	85.61107	105	0.9		
13	Barkatha	24.17748	85.61111	199.12			
14	St. Columbus College	23.9856	85.37428	199	1.14		
15	BSF Meru	24.02382	85.45738	199.12	3.6		
16	BSF Meru	24.02385	85.45741	199.12	3.6		
17	Chauparan	24.38483	85.25675	160.47	0.3		
18	Dari	23.709722	85.384166	201	15.9	14.15	
19	Harli	23.837777	85.275277	201	0		
20	Palandu	23.781111	85.234166	201	7.74	2.79	
21	Churchu	23.909166	85.516944	201	7.74	6.26	
22	Daru	24.014166	85.544722	201			
23	Bundu	23.739166	85.118611	150	27.83	104.42	6.68*10 <sup>-6</sup>
24	Bundu OW	23.739166	85.118611	182	27.83		
25	Tatijharia	24.023055	85.619722	201			
26	Keredari	23.856111	85.087222	201			
27	Bishnugarh	24.022222	85.743055	201			



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Sl.No	Location	Latitude	Longitude	Depth Drilled	Discharge m <sup>3</sup> /h	Transmissivity m <sup>2</sup> /day	Storativity
28	Kanchanpur	24.033333 33	85.309166 67	116	27.83	164.4	
29	Chano	23.974166 67	85.8275	203			
30	Galhowar	23.910555 56	85.871111 11	203	15.9	36.69	
31	Katkamsandi	24.107777 78	85.202777 78	203	1.55	6.62	
32	Dariya	24.106666 67	85.464722 22	88	15.37	71.57	
33	Barsot	24.233611 11	85.502222 22	157	11.38	4.73	
34	Champadih	24.194166 67	85.398611 11	203	2.7		
35	Chauparan	24.388611 11	85.251666 67	203	1.55	1.65	
36	Manpur	24.201111 11	85.695277 78	203	1.55	0.399	
37	Haram	23.894166 67	85.316944 44	201			
38	Barkagaon	23.848611 11	85.215277 78	201	10.8	1.99	
39	Rampur	24.426944 44	85.374444 44	201	0.72	2.21	
40	Hatyari	23.896388 89	85.415833 33	201			
41	Garrikala	23.870555 56	85.167222 22	201	2.81	1.28	
42	Ragdih	24.2575	85.722222 22	201			



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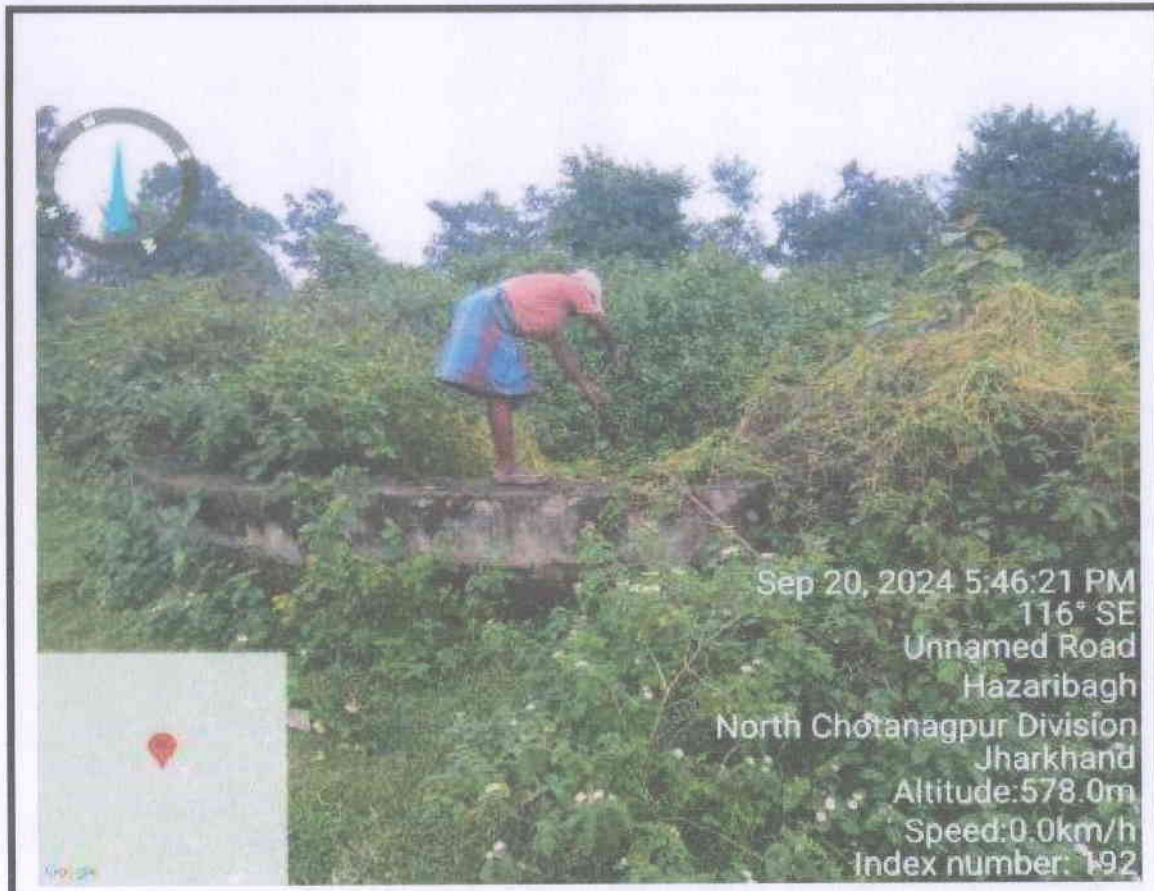


**Primary Ground water Survey near existing mining site**



Name of Mining Lease Holder	M/s Laborious Construction Pvt.Ltd.
Location	Mouza - Murumatu, Plot no - 1212, 1216 to 1221-1235 etc. Area 4.56 Acres, P.S. - Tatijharia, Hazaribag, Jharkhand
Water Label in well	52 fit





<b>Name of Mining Lease Holder</b>	M/S MAA JAGDAMBA STONE WORKS
<b>Location</b>	Mouza – Jugra, Po- Chepakala, khata no- 97, Plot No- 124-134,135(p),137-140 Area – 4.26 acre, Ps- Barkagaon, Hazaribagh, Jharkhand-825311
<b>Number Of Well</b>	01
<b>Water Level in Well</b>	There is no water even at a depth of 30 feet; water stores only during the rainy season.



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**District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



Name of Mining Lease Holder	M/S MAA JAGDAMBA STONE WORKS
Location	Mouza – Jugra, Po- Chepakala, khata no- 97, Plot No- 124-134,135(p),137-140 Area – 4.26 acre, Ps- Barkagaon, Hazaribagh, Jharkhand-825311
Number Of Bore wells	04
Water Level in Bore well	There is no water in all four bore wells, even at a depth of 800 feet.



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## **8 RAINFALL AND CLIMATE OF THE DISTRICT**

### **8.1 Climate & Rainfall**

The Hazaribagh district lies in the northern tropical, semi-arid region and is characterized by mean annual temperature 23.1°C. The mean annual rainfall is 1318 mm of which nearly 81.4% is received within the 1st four months of monsoon namely June, July, August and September.

The year can be divided into 3 main seasons. The cold season starts from November to March, the hot season from March to May and monsoon season from June to September. October is a transitional month between monsoon and winter as such is a very pleasant month. Summer is more pronounced from middle of March to middle of June with maximum temperature ranging from 39°C to 42.2°C. May being the hottest with maximum temperature reaching up to 43°C. The minimum temperature ranges from 6.7°C to 4°C, the lowest being in the month of December. The temperature starts rising from the last week of February attains peak in the months of May and June, and starts receding from mid / end of June. There are large monthly and yearly variations in rainfalls. The monsoon begins to retreat from mid-September and withdrawal is almost complete by the end of September. In some years, October receives few rains. A clear dry period can be considered from November to middle of June. The relative humidity is generally lower in the afternoons than in the mornings except during monsoon months when such differences are at the minimum. The summer months are the driest in humidity. High wind and squalls causes widespread destruction during May and June due to cyclones having its origin from Bay of Bengal. Hot winds combined with hale and dust storms prevail in April and May. Hot waves during May, June and exceptionally in the 1st week of July. It is observed that the mean annual temperature is 23.1°C and the difference between summer and winter temperature is more than 5°C.

The rainfall of the district is given below in Table No 10-1.



**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



Table 8-1:- Rainfall data

YEAR	JAN		FEB		MAR		APR		MAY		JUN	
	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP
2016	13.5	-4	0	-100	24.1	63	0	-100	92.9	16	92.3	-48
2017	11.2	-21	0	-100	0	-100	0	-100	38.5	8	121.4	-31
2018	0	-100	4.2	-73	0	-100	12	2	3.9	-61	198.2	12
2019	3.9	-70	18.1	-1	12.3	-28	8.2	-59	5.9	-87	75.9	-63
2020	26.6	109	16.7	-9	123.8	628	46.9	133	39	-15	241.5	19
YEAR	JUL		AUG		SEPT		OCT		NOV		DEC	
	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP
2016	320.4	1	387.8	34	373.8	68	112.8	38	0	-100	0	-100
2017	645.6	103	173.9	-40	118	-47	98	20	0	-100	0	-100
2018	288.6	-9	301.1	4	129.3	-42	14	-83	0	-100	15.1	67
2019	245.5	-26	209.3	-29	331	36	140.2	56	0	-100	5.3	-1
2020	266.7	-20	304.4	4	138.9	-43	80.4	-11	8.5	7	0	-100

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



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Table 8-2:- Month wise data

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Record high °C (°F)	28.0(82.4)	34.0(93.2)	38.0(100.4)	42.0(107.6)	45.0(113.0)	44.0(111.2)	36.0(96.8)	34.0(93.2)	33.0(91.4)	31.0(87.8)	32.0(89.6)	27.0(80.6)	45.0(113.0)
Average high °C (°F)	22.52(72.54)	26.64(79.95)	31.7(89.06)	36.52(97.74)	39.25(102.65)	36.24(97.23)	31.6(88.88)	30.57(87.03)	29.77(87.59)	26.59(79.86)	28.19(82.74)	22.86(73.15)	30.2(86.36)
Daily mean °C (°F)	18.91(66.04)	22.98(73.36)	28.46(83.23)	33.34(92.01)	35.92(96.66)	33.5(92.3)	29.44(84.99)	28.43(83.17)	27.48(81.46)	23.38(74.08)	25.61(78.1)	19.4(66.92)	27.24(81.03)
Average low °C (°F)	12.86(55.15)	16.2(61.16)	21.0(69.8)	25.12(77.22)	27.4(81.32)	26.97(80.55)	24.86(76.75)	24.1(75.38)	23.08(73.54)	17.76(63.97)	20.69(69.24)	13.7(56.66)	21.14(70.05)
Record low °C (°F)	9.0(48.2)	11.0(51.8)	13.0(55.4)	18.0(64.4)	20.0(68.0)	21.0(69.8)	21.0(69.8)	22.0(71.6)	16.0(60.8)	14.0(57.2)	17.0(62.6)	8.0(46.4)	8.0(46.4)
Average precipitation mm (inches)	7.03(0.28)	12.35(0.49)	10.76(0.42)	8.65(0.34)	12.33(0.49)	72.29(2.85)	159.5(6.28)	168.7(6.64)	139.25(5.48)	1.58(0.06)	49.57(1.95)	6.92(0.27)	54.08(2.13)
Average precipitation days (≥ 1.0 mm)	0.73	1.55	1.45	1.36	1.64	4.73	7.64	7.91	6.73	0.27	3.18	0.73	3.16
Average relative	50.48	44.95	32.09	30.77	32.44	52.67	74.45	81.25	81.51	55.61	70.96	51.4	54.88

Approved  
 State Level Environmental Impact Assessment  
 Jharkhand, Ranchi

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**District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



humidity (%)																					
8.37	8.37	10.61	12.81	13.12	12.43	11.32	10.85	9.99	9.55	10.19	8.4	10.5									

(Source: <https://weatherandclimate.com/india/jharkhand/hazaribag>)



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**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



**9 DETAILS OF EXISTING/WORKING MINING LEASES IN THE DISTRICT**

*Table 9-1:- Details of Existing/Working Mining Leases in the District*

Sl. No.	Name of the Mineral	Name of the Lessee	Address & Contact No. of Lessee	Mining lease Grant Order No. & Date	Area of Mining lease (ha)	Period of Mining lease (Initial)		Period of Mining lease (1 <sup>st</sup> /2 <sup>nd</sup> renewal)		Date of commencement of Mining Operation
						Form	To	From	To	
1	Stone	M/S Ganpati Stone Enterprises	Partner-(1) Shri Koleswar Prasad Mehta, Father- Shri Kamal Ram, (2) Shri Mukesh Kumar, Father- Shri Mahendra Prasad Mehta, (3) Shri Arvind Kumar, Father- Shri Bateshwar Mehta, Villages- Chanda, P.O.+P.S- Ichak, Dist.- Hazaribagh	5 823/M dated 07.05.2016	6	7	8	9	10	11



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**District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



Sl. No.	Name of the Mineral	Name of the Lessee	Address & Contact No. of Lessee	Mining lease Grant Order No. & Date	Area of Mining lease (ha)	Period of Mining lease (Initial)		Period of Mining lease (1 <sup>st</sup> /2 <sup>nd</sup> renewal)		Date of commencement of Mining Operation
						Form	To	From	To	
1	2	3	4	5	6	7	8	9	10	11
2	Stone	M/S Laborious Construction Pvt. Ltd.	Shri Om Prakash Mehta, Father- Shri Bangali Prasad Mehta, Village+P.O.- Padma, Dist.- Hazaribagh	1429/M dated 24.08.2021	1.85 ha/4.56 acre	18.11.2017	17.11.2027			
3	Stone	M/S Murumatu Stone Mines	Partners- (1) Shri Arvind Kumar Mehta, Father- Shri Budhnath Prasad Mehta, Vill. +P.O.- Dumrone, P.S.- Ichak, Dist.- Hazaribagh (2) Shri Ajay Prasad Mehta, Father- Shri Vasudev	1478/M, dated 31.08.2017	0.57 HA/1.42 acre	16.12.2017	15.12.2027			



**District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



Sl. No.	Name of the Mineral	Name of the Leasee	Address & Contact No. of Leasee	Mining lease Grant Order No. & Date	Area of Mining lease (ha)	Period of Mining lease (Initial)		Period of Mining lease (1 <sup>st</sup> /2 <sup>nd</sup> renewal)		Date of commencement of Mining Operation
						Form	To	From	To	
1	2	3	4	5	6	7	8	9	10	11
			Mehta, Vill.- Chanda, P.O+P.S-Ichak, Dist.- Hazaribagh							
4	Stone	M/S Ramcon Infrastructures Pvt. Ltd.	Director- Shri Nilesh Ranjan with others, Father- Shri Saryu Prasad Mehta , Vill.-P.O- Behradih, Thana- Domchanch, Dist.- Koderma	1924/M, dated 18.05.2015	1.82 ha/4.50 acre	02.07.2015	01.07.2025			
5	Stone	M/S Golden Stone harvest Pvt. Ltd.	Director- Shri Shivesh Singh, Father- Shri Shiv Mangal Singh, Office Address- F-14, City	243/M, dated 27.02.2016	1.273 HA/3.145 acre	01.06.2016	31.05.2026			



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**District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



Sl. No.	Name of the Mineral	Name of the Lessee	Address & Contact No. of Lessee	Mining lease Grant Order No. & Date	Area of Mining lease (ha)	Period of Mining lease (Initial)		Period of Mining lease (1 <sup>st</sup> /2 <sup>nd</sup> renewal)		Date of commencement of Mining Operation
						Form	To	From	To	
1	2	3	4	5	6	7	8	9	10	11
			Centre, Club Road, P.O- Lower Bazar, Thana- Chutia, District- Ranchi							
6	Stone	M/S J.C Stone Works	Prop.- Shri Ajit Kumar, Father- Shri Janki Yadav, Vill.- Chaikari, P.O+P.S- Chalkusha, Dist.- Hazaribagh	837/M, dated 02.07.2022	1.619 ha/4.00 acre	14.07.2022	13.07.2032			
7	Stone	M/S Saroj Stone	Partners- (1) Shri Sanjay Kumar, Father-Shri Bandhan Ram, Vill.+P.O+P.S- Chandwara, Dist.- Koderma (2) Mohd.	1682/M, dated 09.11.2023	0.919 ha/2.27 acre	18.11.2023	17.11.2033			



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**District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



Sl. No.	Name of the Mineral	Name of the Lessee	Address & Contact No. of Lessee	Mining lease Grant Order No. & Date	Area of Mining lease (ha)	Period of Mining lease (Initial)		Period of Mining lease (1 <sup>st</sup> /2 <sup>nd</sup> renewal)		Date of commencement of Mining Operation
						Form	To	From	To	
1	2	3	4	5	6	7	8	9	10	11
			Mimbaj Aalam, Father-Ataul Aalam, Vill.- Kamalpur (Ansar Nagar), P.O+P.S.- Nawada, Dist.- Nawada (Bihar)							
8	Stone	M/S Maa Saraswati Stone Chips Works	Partners- (1) Shri Rajendra Prasad, Father- Late Dashrath Mahto (2) Shri Raj Kumar Prasad, Father- Late Nageshwar Mahto, Vill.-Churchu, P.O- Ichak, P.S.- Sadar, Dist.- Hazaribagh	24/M, dated 27.02.2016	0.99 ha/2.45 acre	28.03.2016	27.03.2026			



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**District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



Sl. No.	Name of the Mineral	Name of the Lessee	Address & Contact No. of Lessee	Mining lease Grant Order No. & Date	Area of Mining lease (ha)	Period of Mining lease (Initial)		Period of Mining lease (1 <sup>st</sup> /2 <sup>nd</sup> renewal)		Date of commencement of Mining Operation
						Form	To	From	To	
1	2	3	4	5	6	7	8	9	10	11
9	Stone	M/S Ganesh Stone Works	Partners- (1) Shri Suresh Kumar, Father- Shri Sehdev Prasad Mehta (2) Shri Vikas Kumar, Father- Shri Indra Prasad Mehta, Vill.-Churchu, P.O- Ichak, P.S.- Sadar, Dist.- Hazaribagh	1469/M, dated 30.08.2017	1.214 ha/3.00 acre	05.12.2017	04.12.2027			
10	Stone	M/S Jai Hanuman Stone Works	Partners- (1) Shri Rakesh Ranjan, Father- Shri Badri Prasad Mehta, Vill.- Sindur, P.O+P.S-	1468/M, dated 30.08.2017	1.619 ha/4.00 acre	05.12.2017	04.12.2027			



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**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



Sl. No.	Name of the Mineral	Name of the Lessee	Address & Contact No. of Lessee	Mining lease Grant Order No. & Date	Area of Mining lease (ha)	Period of Mining lease (Initial)		Period of Mining lease (1 <sup>st</sup> /2 <sup>nd</sup> renewal)		Date of commencement of Mining Operation
						Form	To	From	To	
1	2	3	4	5	6	7	8	9	10	11
			Sadar, Dist.- Hazaribagh (2) Shri Kailash Prasad, Father- Shri Butan Mahto, Vill.- Churchu, P.O.- Ichak, P.S.- Sadar, Dist.- Hazaribagh							
11	Stone	Shri Chandradhari Prasad	Shri Chandradhari Prasad, Father- Late Thakur Mahto, Vill.- Churchu, P.O.- Ichak, P.S.- Sadar, Dist.- Hazaribagh	241/M dated 27.02.2016	0.97 ha/2.40 acre	28.03.2016	27.03.2026			



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**District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



Sl. No.	Name of the Mineral	Name of the Leasee	Address & Contact No. of Leasee	Mining lease Grant Order No. & Date	Area of Mining lease (ha)	Period of Mining lease (Initial)		Period of Mining lease (1 <sup>st</sup> /2 <sup>nd</sup> renewal)		Date of commencement of Mining Operation
						Form	To	From	To	
1	2	3	4	5	6	7	8	9	10	11
			Prot.- Mrs. Hemlata Devi, Husband- Late Shankar Yadav, Vill.- Jhumri, P.O.- Karma, P.S.- Tilaiya, Dist.- Koderma	910/M dated 16.05.2017	0.971 ha/2.40 acre	04.05.2017	11.01.2026			
12	Stone	M/S Vikas Minerals	Prop.- Shri Kailash Yadav, Father- Late Todi Yadav, Vill.- Dhab, P.O.- Dhabtham, P.S.- Chandwara, Dist.- Koderma	852/M, dated 09.07.2022	0.623 ha/1.54 acre	13.10.2022	12.10.2032			
13	Stone	M/S Jai Sri Ram Stone Mines	Shri Nageshwar Rana and others, Father- Late Maran Ram, Vill.- Purnadih,	2322/M, dated 04.07.2015	1.71 ha/4.23 acre	06.07.2015	05.07.2025			
14	Stone	Shri Nageshwar Rana and others								



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**District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



Sl. No.	Name of the Mineral	Name of the Lessee	Address & Contact No. of Lessee	Mining lease Grant Order No. & Date	Area of Mining lease (ha)	Period of Mining lease (Initial)		Period of Mining lease (1 <sup>st</sup> /2 <sup>nd</sup> renewal)		Date of commencement of Mining Operation
						Form	To	From	To	
1	2	3	4	5	6	7	8	9	10	11
			P.O- Dhabtham, P.S- Chandwara, Dist.- Koderma							
			Partners- (1) Ishaan Jain, Father- Shri Manoj Kumar Jain, Pani Tanki Road, Jhumri Telaiya, Dist.- Koderma (2) Shri Manish Kumar Gangwal, Father-Jai Kumar Jain, Chandak Complex, Ranchi Patna Road, Jhumri	1108/M, dated 21.07.2023	1.29 ha/3.174 acre	08.08.2023	07.08.2033			
15	Stone	M/S Shree Shantinath Minerals								



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**District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



Sl. No.	Name of the Mineral	Name of the Leasee	Address & Contact No. of Leasee	Mining lease Grant Order No. & Date	Area of Mining lease (ha)	Period of Mining lease (Initial)		Period of Mining lease (1 <sup>st</sup> /2 <sup>nd</sup> renewal)		Date of commencement of Mining Operation
						Form	To	From	To	
1	2	3	4 Telaiya, Dist.- Koderma	5 5	6 6	7 7	8 8	9 9	10 10	11 11
16	Stone	Shri Bhagirath Yadav	Shri Bhagirath Yadav, Father- Mr. Bhikhari Yadav, Vill.- Padirma, P.S- Barhi, Dist.- Hazaribagh	811/M, dated 07.05.2016	0.57 ha/1.40 acre	11.07.2014	10.07.2024			
17	Stone	M/S Maa Jagdamba Stone Works	Partner - Shri Shailendra Kumar Mehta and others, Father- Shri Yugal Kishore Mehta, Address-	2101/M, dated 13.06.215	1.72 ha/4.26 acre	02.07.2015	01.07.2025			



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**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



Sl. No.	Name of the Mineral	Name of the Lessee	Address & Contact No. of Lessee	Mining lease Grant Order No. & Date	Area of Mining lease (ha)	Period of Mining lease (Initial)		Period of Mining lease (1 <sup>st</sup> /2 <sup>nd</sup> renewal)		Date of commencement of Mining Operation
						Form	To	From	To	
1	2	3	4	5	6	7	8	9	10	11
			Hurhuru Road, Near K.B High School, Hazaribagh							
18	Stone	M/S Jammijara Stone Mines	Prop.- Shree Rameshwar Mahto, Father-Late Dhanu Mahto, Vill.- Jammijara, P.O.- Konar Dam, Thana-Vishnugarh, Dist.- Hazaribagh	1473/M, dated 31.08.2017	2.79 ha/6.90 acre	20.12.2017	19.12.2027			
19	Stone	M/S Kushumbhha Stone Deposit	Partner- (1) Shri Anirudh Singh, Father- Shree Prafullo Singh, Vill.- Saroni, P.O.- Silwar, Thana- Muffasil (2) Shri Binod	795/M dated 02.12.2021	1.234 HA/3.05 acre	02.02.2022	01.02.2032			



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**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



Sl. No.	Name of the Mineral	Name of the Lessee	Address & Contact No. of Lessee	Mining lease Grant Order No. & Date	Area of Mining lease (ha)	Period of Mining lease (Initial)		Period of Mining lease (1 <sup>st</sup> /2 <sup>nd</sup> renewal)		Date of commencement of Mining Operation
						Form	To	From	To	
1	2	3	4	5	6	7	8	9	10	11
			Kumar Kushwaha, Father- Pannu Prasad Kushwaha, Panditji Road, Hurhuru, Thana- Sadar, Dist.- Hazaribagh							
20	Stone	M/S Bhole Shankar Stone Works	Partner- (1) Shri Subhash Kumar Verma, Father- Shri Kailash Prasad Verma, Vill.- Giddhi, P.O- Religada, Thana - Giddhi, Dist.- Hazariabagh (2) Shri Suresh Kumar Sinha, Father- Late	308/M dated 16.03.2022	0.49 HA/1.21 acre	01.09.2022	31.08.2032			



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**District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



Sl. No.	Name of the Mineral	Name of the Leasee	Address & Contact No. of Leasee	Mining lease Grant Order No. & Date	Area of Mining lease (ha)	Period of Mining lease (Initial)		Period of Mining lease (1 <sup>st</sup> /2 <sup>nd</sup> renewal)		Date of commencement of Mining Operation
						Form	To	From	To	
1	2	3	4	5	6	7	8	9	10	11
			Shiv Charanlal, Vill.- Jai Prakash Marg, Thana- Sadar, P.O+Dist.- Hazaribagh (3) Shri Gyan Prakash, Father- Late Awadh Kishore Prasad, Thana- Katkamdag, Dist.- Hazaribagh (4) Shree Rajesh Kumar Sahoo, Father- Late Bharat Sahoo, Vill.- Kurkutta, P.O+P.S.- Giddhi, Dist.- Hazaribagh							



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**District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



Sl. No.	Status (Working/Non-Working/ Temp. working for dispatch etc.)	Captive/ Non-Captive	Obtain Environmental Clearance (Yes/No), If Yes Letter No. with date of grant of EC.	Location of the Mining lease (Latitude & Longitude)	Method of Mining (Opencast/Underground)
1	12 Working	13 Non-captive	14 EC/SEIAA/2015-16/1834/2015/2580, dated 31.12.2015	15 24°00'51.6"N to 24°00'59.0"N 85°38'31.2"E to 85°38'39.3"E	16 Opencast
2	Working	Non-captive	EC/DEIAA/2016-17/23, dated 07.01.2017	24°00'59.275"N to 24°01'05.10"N 85°38'26.14"E to 85°38'35.07"E	Opencast
3	Working	Non-captive	EC/DEIAA/2017-18/63, dated 22.08.2017	24°01'02.62"N to 24°01'05.36"N 84°38'38.78"E to 84°38'42.95"E	Opencast



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**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



4	Working	Non-captive	369, dated 07.05.2014	24° 10' 5.055" N to 24° 10' 12.147" N 85° 35' 13.709" E to 85° 35' 20.084" E	Opencast
5	Working	Non-captive	EC/SEIAA/2013-14/255/2013/1195, dated 07.08.2015	1.24° 10' 18.53" N 85° 35' 6.31" E 2.24° 10' 17.47" N 85° 35' 12.01" E 3.24° 10' 14.83" N 85° 35' 11.33" E 4.24° 10' 16.01" N 85° 35' 05.8" E	Opencast
6	Working	Non-captive	EC/SEIAA/2021-22/2490/2021/17, dated 16.04.2022	1.24°10'14.726"N 85°35'6.072"E 2.24°10'14.240"N 85°35'7.434"E 3.24°10'13.526"N 85°35'9.563"E 4.24°10'12.763"N 85°35'11.426"E 5.24°10'11.296"N 85°35'10.940"E 6.24°10'10.069"N 85°35'10.302"E 7.24°10'8.817"N 85°35'9.777"E 8.24°10'8.734"N 85°35'10.097"E 9.24°10'8.242"N 85°35'9.961"E 10.24°10'8.613"N 85°35'9.188"E 11.24°10'9.003"N 85°35'7.917"E 12.24°10'9.895"N 85°35'8.288"E 13.24°10'9.931"N 85°35'8.237"E 14.24°10'10.714"N 85°35'8.658"E 15.24°10'11.173"N 85°35'7.102"E 16.24°10'11.600"N 85°35'5.972"E 17.24°10'12.434"N 85°35'6.075"E 18.24°10'12.503"N 85°35'6.265"E 19.24°10'13.533"N 85°35'6.656"E 20.24°10'13.772"N 85°35'5.754"E	Opencast



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**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



7	Working	Non-captive	EC/SEIAA/2022-23/2736/ 2023/292, dated 06.10.2023	1.24° 10' 15.1" N 85° 35' 02.7" E 2.24° 10' 15.5" N 85° 35' 03.4" E 3.24° 10' 15.1" N 85° 35' 04.5" E 4.24° 10' 14.3" N 85° 35' 04.2" E 5.24° 10' 13.6" N 85° 35' 06.2" E 6.24° 10' 10.3" N 85° 35' 04.1" E 7.24° 10' 10.2" N 85° 35' 03.1" E 8.24° 10' 11.7" N 85° 35' 02.0" E	Opencast
8	Working	Non-captive	EC/SEIAA/2014- 15/634/214/ 1326, dated 17.08.2015	1.24° 2' 13.260" N 85° 24' 14.057" E 2.24° 2' 12.979" N 85° 24' 13.598" E 3.24° 2' 12.126" N 85° 24' 13.209" E 4.24° 2' 11.183" N 85° 24' 12.933" E 5.24° 2' 11.501" N 85° 24' 11.885" E 6.24° 2' 11.869" N 85° 24' 10.673" E 7.24° 2' 13.807" N 85° 24' 11.262" E 8.24° 2' 14.364" N 85° 24' 11.626" E 9.24° 2' 14.535" N 85° 24' 12.183" E 10.24° 2' 14.813" N 85° 24' 12.901" E 11.24° 2' 14.985" N 85° 24' 13.404" E 12.24° 2' 16.334" N 85° 24' 13.040" E 13.24° 2' 16.489" N 85° 24' 14.989" E 14.24° 2' 15.787" N 85° 24' 15.897" E 15.24° 2' 15.330" N 85° 24' 16.010" E 16.24° 2' 14.446" N 85° 24' 15.592" E 17.24° 2' 14.521" N 85° 24' 15.092" E 18.24° 2' 14.103" N 85° 24' 14.934" E 19.24° 2' 14.172" N 85° 24' 14.626" E	Opencast



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**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



9	Working	Non-captive	EC/DEIAA/2017-18/59, dated 22.08.217	1. 24° 2' 28.512" N 85° 24' 35.604" E 2. 24° 2' 27.417" N 85° 24' 35.606" E 3. 24° 2' 26.325" N 85° 24' 35.545" E 4. 24° 2' 25.358" N 85° 24' 35.609" E 5. 24° 2' 25.533" N 85° 24' 37.718" E 6. 24° 2' 25.685" N 85° 24' 39.826" E 7. 24° 2' 25.169" N 85° 24' 39.786" E 8. 24° 2' 28.644" N 85° 24' 39.716" E 9. 24° 2' 29.089" N 85° 24' 38.715" E 10. 24° 2' 28.533" N 85° 24' 36.875" E	Opencast
10	Working	Non-captive	EC/DEIAA/2017-18/60, dated 22.08.217	1. 24° 2' 30.426" N 85° 24' 42.847" E 2. 24° 2' 29.144" N 85° 24' 42.256" E 3. 24° 2' 27.804" N 85° 24' 42.398" E 4. 24° 2' 26.164" N 85° 24' 42.618" E 5. 24° 2' 26.112" N 85° 24' 43.557" E 6. 24° 2' 26.324" N 85° 24' 44.788" E 7. 24° 2' 25.861" N 85° 24' 46.567" E 8. 24° 2' 27.676" N 85° 24' 47.257" E 9. 24° 2' 29.522" N 85° 24' 47.371" E 10. 24° 2' 30.018" N 85° 24' 45.734" E 11. 24° 2' 30.375" N 85° 24' 44.172" E	Opencast
11	Working	Non-captive	EC/SEIAA/2014-15/633/ 2014/1323, dated 17.08.2015	1. 24° 2' 17.306" N 85° 24' 21.355" E 2. 24° 2' 17.557" N 85° 24' 21.508" E 3. 24° 2' 17.546" N 85° 24' 21.823" E 4. 24° 2' 17.612" N 85° 24' 21.877" E 5. 24° 2' 17.463" N 85° 24' 22.222" E 6. 24° 2' 17.952" N 85° 24' 22.513" E 7. 24° 2' 18.115" N 85° 24' 22.610" E 8. 24° 2' 18.188" N 85° 24' 22.720" E 9. 24° 2' 18.439" N 85° 24' 23.030" E 10. 24° 2' 18.601" N 85° 24' 23.061" E	Opencast



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**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



				11. 24° 2' 18.843" N 85° 24' 23.244" E 12. 24° 2' 19.099" N 85° 24' 23.461" E 13. 24° 2' 19.110" N 85° 24' 23.661" E 14. 24° 2' 18.906" N 85° 24' 24.006" E 15. 24° 2' 19.136" N 85° 24' 24.198" E 16. 24° 2' 18.603" N 85° 24' 24.651" E 17. 24° 2' 18.051" N 85° 24' 25.136" E 18. 24° 2' 17.499" N 85° 24' 25.621" E 19. 24° 2' 16.898" N 85° 24' 25.015" E 20. 24° 2' 16.297" N 85° 24' 24.409" E 21. 24° 2' 15.862" N 85° 24' 23.975" E 22. 24° 2' 15.427" N 85° 24' 23.541" E 23. 24° 2' 14.992" N 85° 24' 23.108" E 24. 24° 2' 14.556" N 85° 24' 22.674" E 25. 24° 2' 14.650" N 85° 24' 22.388" E 26. 24° 2' 14.799" N 85° 24' 21.910" E 27. 24° 2' 14.954" N 85° 24' 21.359" E 28. 24° 2' 15.242" N 85° 24' 21.364" E 29. 24° 2' 16.160" N 85° 24' 21.394" E 30. 24° 2' 17.078" N 85° 24' 21.425" E 1. 24° 23' 3.417" N 85° 24' 26.355" E 2. 24° 23' 2.712" N 85° 24' 28.037" E 3. 24° 23' 2.452" N 85° 24' 29.518" E 4. 24° 23' 1.640" N 85° 24' 29.518" E 5. 24° 23' 1.230" N 85° 24' 32.363" E 6. 24° 23' 1.619" N 85° 24' 33.070" E 7. 24° 23' 2.444" N 85° 24' 30.993" E 8. 24° 23' 3.493" N 85° 24' 31.303" E 9. 24° 23' 4.595" N 85° 24' 33.703" E 10. 24° 23' 5.742" N 85° 24' 34.301" E 11. 24° 23' 5.645" N 85° 24' 33.241" E
12	Working	Non-captive	EC/SEIAA/2015-16/1860/ 2015/2527, dated 30.12.2015	Opencast



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**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



				12. 24° 23' 6.374" N 85° 24' 32.513" E 13. 24° 23' 6.052" N 85° 24' 32.042" E 14. 24° 23' 5.014" N 85° 24' 31.282" E 15. 24° 23' 5.292" N 85° 24' 30.457" E 16. 24° 23' 3.408" N 85° 24' 30.329" E 17. 24° 23' 3.579" N 85° 24' 29.697" E 18. 24° 23' 2.969" N 85° 24' 29.376" E 19. 24° 23' 3.547" N 85° 24' 28.262" E 20. 24° 23' 3.054" N 85° 24' 28.005" E 21. 24° 23' 3.675" N 85° 24' 26.517" E	
13	Working	Non-captive	EC/SEIAA/2021-22/2522/ 2021/66, dated 16.04.2022	24°22'48.02"N to 24°22'51.12"N 85°24'240.34"E to 85°24'45.45"E	Opencast
14	Working	Non-captive	EC/SEIAA/2014-15/644/ 2015/997 dated 02.06.2015	24°24'40"N to 24°24'50"N 85°24'50"E to 85°24'455"E	Opencast
15	Working	Non-captive	EC/SEIAA/2023-24/2821/ 2023/115, dated 07.06.2023	24°22'09.57"N to 24°22'13.91"N 85°24'47.34"E to 85°24'55.03"E	Opencast
16	Working	Non-captive	EC/SEIAA/2015-16/1250/ 2015/2164, dated 15.12.2015	1. 24.293507 85.455752 2. 24.293791 85.455827 3. 24.293985 85.455881 4. 24.294059 85.456038 5. 24.293975 85.456437 6. 24.293959 85.456609 7. 24.293908 85.456866 8. 24.293622 85.456812	Opencast



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**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



				9. 24.293478 85.456800 10. 24.293508 85.456545 11. 24.293547 85.456360 12. 24.293609 85.456359 13. 24.293608 85.456201 14. 24.293598 85.456050 15. 24.293481 85.455986	
17	Working	Non-captive	EC/DEIAA/2017-18/43, dated 03.08.2017	23°51'15.31"N 85°13'23"E	Opencast
18	Working	Non-captive	EC/DEIAA/2017-18/62, dated 22.08.2017	23°57'02.24"N to 23°57'08.37"N 85°47'10.15"E to 85°47'19.188"E	Opencast
19	Working	Non-captive	EC/SEIAA/2011-22/2430/ 2021/134, dated 23.09.2021	1. 23° 58' 38.48" N 85° 45' 25.12" E 2. 23° 58' 38.88" N 85° 45' 23.80" E 3. 23° 58' 39.80" N 85° 45' 22.71" E 4. 23° 58' 40.89" N 85° 45' 21.20" E 5. 23° 58' 42.83" N 85° 45' 21.18" E 6. 23° 58' 44.00" N 85° 45' 23.25" E 7. 23° 58' 42.05" N 85° 45' 24.58" E 8. 23° 58' 40.50" N 85° 45' 26.01" E	Opencast



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**District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



20	Working	Non-captive	EC/SEIAA/2018-19/2271/ 2019/08, dated 13.04.2021	<ol style="list-style-type: none"> <li>1. 24° 42' 28.758" N 85° 20' 45.585" E</li> <li>2. 24° 42' 28.978" N 85° 20' 45.934" E</li> <li>3. 24° 42' 30.240" N 85° 20' 46.049" E</li> <li>4. 24° 42' 31.046" N 85° 20' 46.494" E</li> <li>5. 24° 42' 30.566" N 85° 20' 47.728" E</li> <li>6. 24° 42' 30.069" N 85° 20' 49.270" E</li> <li>7. 24° 42' 29.127" N 85° 20' 48.379" E</li> <li>8. 24° 42' 28.596" N 85° 20' 47.060" E</li> <li>9. 24° 42' 28.236" N 85° 20' 46.100" E</li> </ol>	Opencast
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**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



**10 DETAILS OF ROYALTY OR REVENUE RECEIVED IN LAST THREE YEARS**

Table 10-1:- ROYALTY OR REVENUE RECEIVED

DISTRICT	FY	ROYALTY PAID-STONE IN (Rs.)
Hazaribagh	2021-22	14915762
	2022-23	46475841
	2023-24	90992263
<b>TOTAL</b>		<b>152383866</b>

Source: - District Mining Office



**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



**11 DETAILS OF PRODUCTION OF MINOR MINERALS IN LAST THREE YEARS**

Table 11-1:- PRODUCTION & DISPATCH

<b>DISTRICT</b>	<b>FY</b>	<b>PRODUCTION In (cft)</b>	<b>DISPATCH In (cft)</b>
<b>Hazaribagh</b>	2021-22	5019042	2749549
	2022-23	8737250	6853900
	2023-24	11476950	12725262
<b>TOTAL</b>		<b>25233242</b>	<b>22328711</b>

Source: - District Mining Office





## 12 MINERAL MAP OF THE DISTRICT

### 12.1 Mineral Wealth

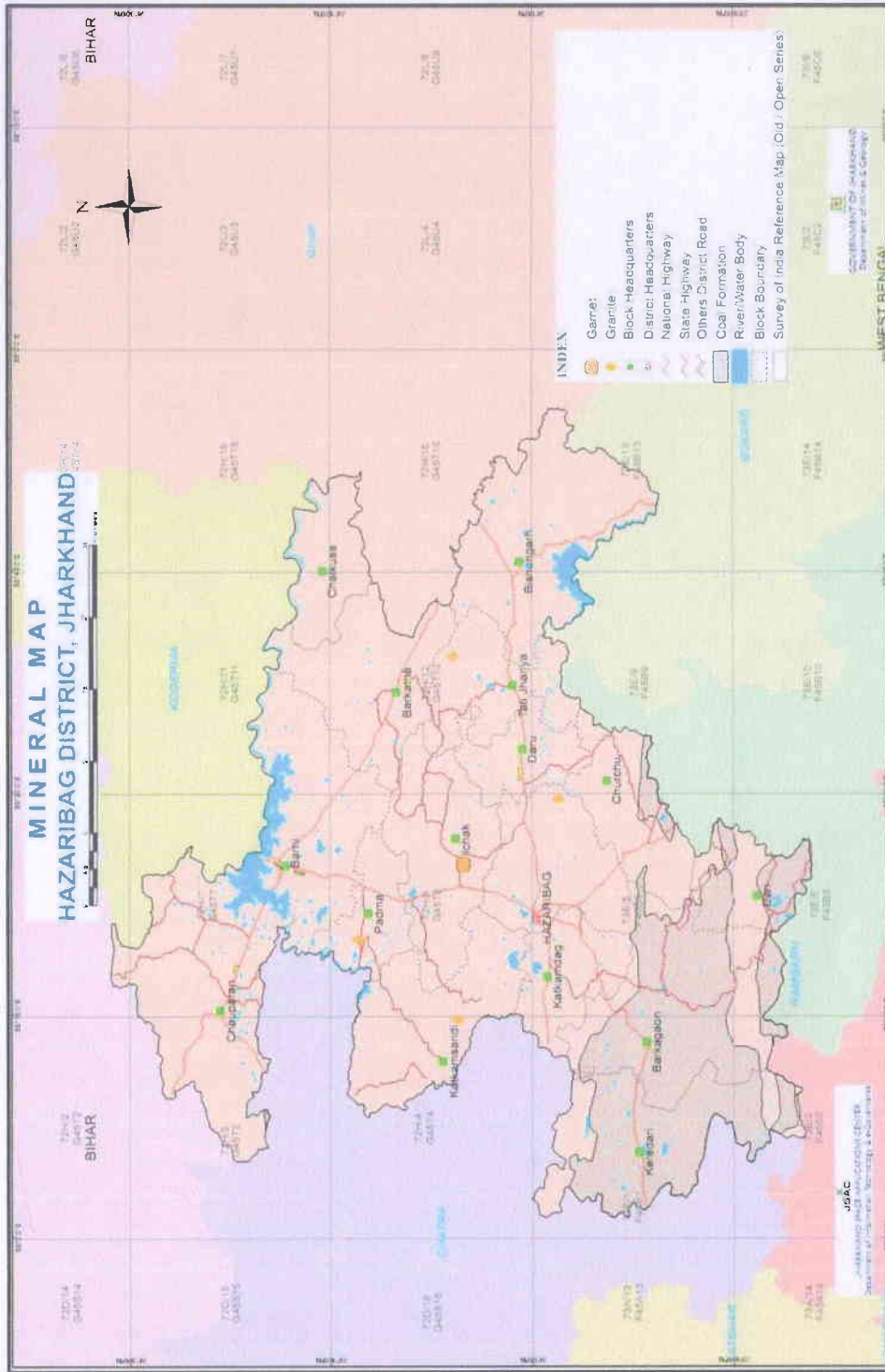
Various minerals have been reported to occur in the district of which Coal and Limestone are two major minerals found in the district. Among minor minerals Fireclay (Barkagaon, Barhi, Keredari, Churchu Blocks), Quartz, Felspar (Spread in all the Blocks where Granitic pegmatite are found), Granites (Ichak, Padma, Bishungarh), Building material (Stone Aggregate) in almost every location interspersed with dykes. Soapstone (Katkamsandi) have their presence in the district: -

- Coal
- Limestone
- Fire Clay
- Sandstone
- Soapstone
- Granite Gneiss



*12*

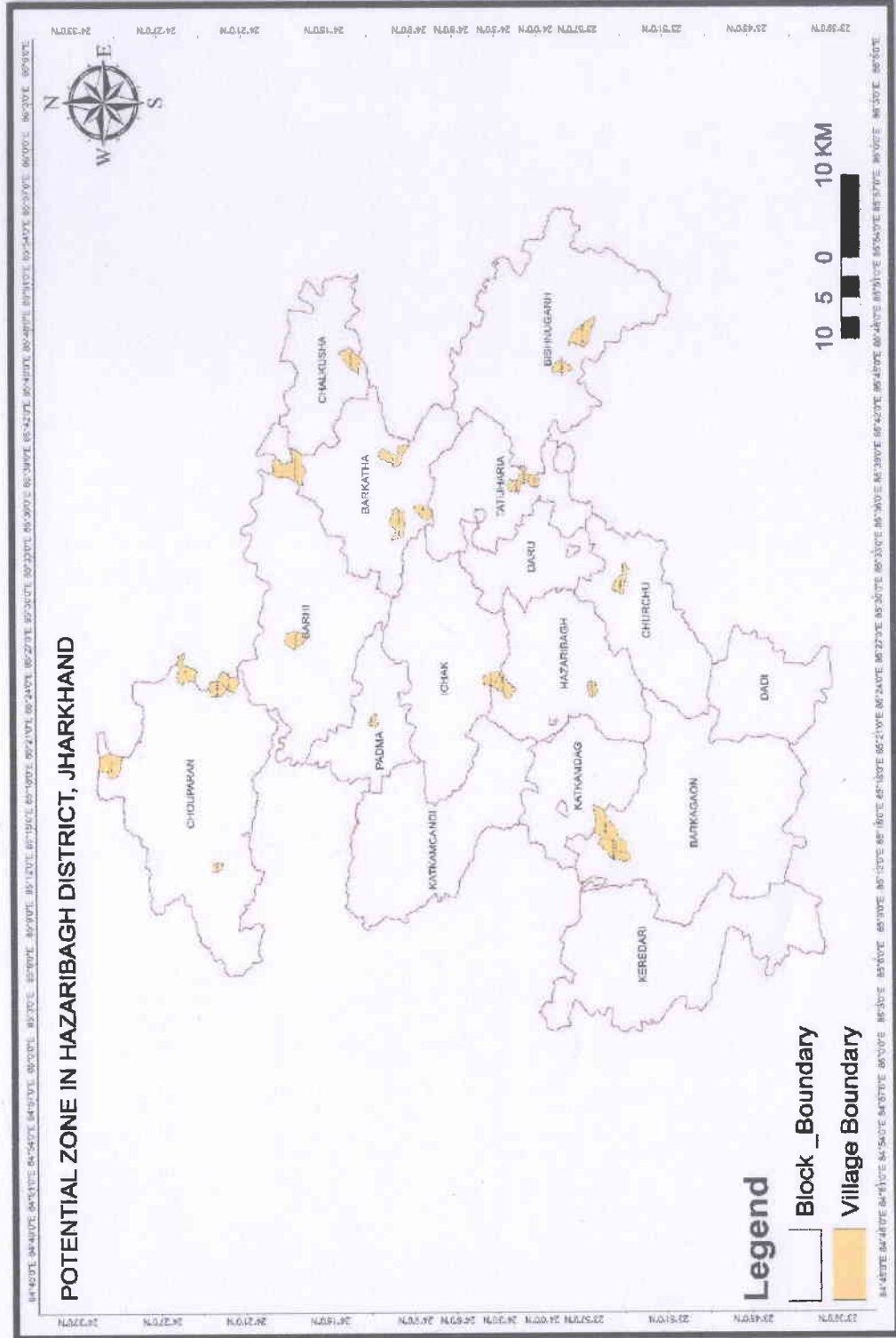
**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



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Figure 12-1:- Mineral Map Hazaribagh district

**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



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*Figure 12-2:- Potential Zone Map Hazaribagh District*

**District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



Table 12-1:- Potential Zone list Hazaribagh District

S.NO	VILLAGE	TEHSIL	DISTRICT	STATE
1	DHAB SALAUNIA	CHOUPARAN	HAZARIBAGH	JHARKHAND
2	BHATBIGHA	CHOUPARAN	HAZARIBAGH	JHARKHAND
3	BASARIA	BARHI	HAZARIBAGH	JHARKHAND
4	JUGRA	BARKAGAON	HAZARIBAGH	JHARKHAND
5	KUNHARA KALAN	BARKATHA	HAZARIBAGH	JHARKHAND
6	DUMARDIHA	BISHNUGARH	HAZARIBAGH	JHARKHAND
7	JAMUNIARA	BISHNUGARH	HAZARIBAGH	JHARKHAND
8	LOHRA	CHOUPARAN	HAZARIBAGH	JHARKHAND
9	DHAB	CHOUPARAN	HAZARIBAGH	JHARKHAND
10	CHURCHU	HAZARIBAGH	HAZARIBAGH	JHARKHAND
11	MURUMATU	TATIJHARIA	HAZARIBAGH	JHARKHAND
12	CHEPA KALAN	BARKAGAON	HAZARIBAGH	JHARKHAND
13	SILADIH	BARKATHA	HAZARIBAGH	JHARKHAND
14	PASARIA	CHALKUSHA	HAZARIBAGH	JHARKHAND
15	BARKANGANGO	BARKATHA	HAZARIBAGH	JHARKHAND
16	DHOBARI	BARKATHA	HAZARIBAGH	JHARKHAND
17	KARMA	CHOUPARAN	HAZARIBAGH	JHARKHAND
18	CHURCHU	CHURCHU	HAZARIBAGH	JHARKHAND
19	BHELWARA	HAZARIBAGH	HAZARIBAGH	JHARKHAND
20	TEPSA	ICHAK	HAZARIBAGH	JHARKHAND
21	LATI	PADMA	HAZARIBAGH	JHARKHAND
22	TATI	TATIJHARIA	HAZARIBAGH	JHARKHAND
23	JHARIA	TATIJHARIA	HAZARIBAGH	JHARKHAND
24	KONHARAKALAN	BARKATHA	HAZARIBAGH	JHARKHAND
25	AASWA	BARKAGAON	HAZARIBAGH	JHARKHAND
26	HOLANG	TATIJHARIA	HAZARIBAGH	JHARKHAND
27	PUNDARI	SADAR	HAZARIBAGH	JHARKHAND
28	TARWA	SADAR	HAZARIBAGH	JHARKHAND
29	PANCHRUKHI TELAIYA	BARKATHA	HAZARIBAGH	JHARKHAND
30	KANDADAG	PADMA	HAZARIBAGH	JHARKHAND
31	KUSUMBHA	BISHNUGARH	HAZARIBAGH	JHARKHAND
32	KURKUTTA	DADHI	HAZARIBAGH	JHARKHAND
33	Devariya	Daru	HAZARIBAGH	JHARKHAND



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**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



**13 LIST OF LETTERS OF INTENT HOLDERS IN THE DISTRICT**

Table 13-1:- LIST OF LETTERS OF INTENT ISSUED

Sl. No	Name of the Mineral	Name of the lessee	Address & Contact No. of Letter of intent Holder	Letter of Intent Grant Order No. & Date	Area (acre)	Validity of Lol (in yrs)	Use (Captive/ Non-Captive)	Location of the Mining lease (Latitude & Longitude)
1	Stone	M/S Surya Minerals	Partners- (1) Shri Saurav Saeiri, Father- Shri Gopal Kumar, Tripurari Bhawan, Giridih Road, Koderma, Dist.- Koderma, (2) Khalid Khalil, Father- Late Mohd. Khalil Ahmed, Aishwarya Enclave, Flat no-301, Block B, Tiwari Tank Road, Hindpiri, Dist.- Ranchi (3) Shri Suryadev, Father- Late Lalo Yadav, Vill.- Ward no-1, Pathaldiha, P.S.+P.O.+Dist.- Koderma	307/M DATED 23.02.2024	0.95 HA/2.36 acre	10 yrs	Non-Captive	LAT - 24°22'07"N LON -85°24'12"E
2	Stone	M/S Balaji Stone Works	Partners (1) Sri Arvind Kumar Singh, S/o Late Dinanath Singh, At.- Asnabad, Ward no. 17, P.O.- Jhumri Telaiya, P.S.- Telaiya, Distt.- Koderma, Jharkhand, (2) Sri Rajeev Kumar, S/o Sri Tej Narayan Singh, At.- Near Bharpura Market, Bharpura, Sonpur, Distt.- Saran, Bihar. (3) Sri Ajit Kumar Mehta, S/o Ranchandra Mehta, At.- Lengrapipar, P.O.- +P.S.- Domchanch, Distt.- Koderma, Jharkhand, (4) Sri Himanshu Ranjan, S/o Sri Chandrashekhar Singh, At.- Ghoghta, Distt.- Saran, Bihar, (5) Sri Sant Ranjan Singh, S/o Late Bharat Prasad Singh, At.- Addi Banglow Road, Near Durga	308/M dated 23.02.2024	0.89 ha/2.20 acre	10 yrs	Non-Captive	A. 24°23'3.51"N 85°24'26.52"E B. 24°23'2.56"N 85°24'29.42"E C. 24°23'1.24"N 85°24'32.82"E D. 24°23'0.64"N 85°24'32.60"E E. 24°23'1.57"N 85°24'29.32"E F. 24°23'0.11"N 85°24'29.64"E G. 24°23'0.27"N 85°24'28.36"E H. 24°23'1.01"N 85°24'28.28"E I. 24°23'2.76"N 85°24'25.38"E

Approved  
Jharkhand, Ranchi

*(Signature)*



**District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



**14 TOTAL MINERAL RESERVE AVAILABLE IN THE DISTRICT**

Based on the data collected from the expired mines, the approx. quantity will be **2184300 Tonnes**, existing mining leases and their approved mining plans (20) a Total **8538194.586 Tonnes** of mineable reserve of Stone is recorded in the Hazaribagh district.

The Letter of Intent (LOI) have been issued to 25 nos. of potential stone deposits is issued in Hazaribagh District. However, there are **35 Nos.** of potential Stone deposit have been identified in Hazaribagh district.

*Table 14-1:- Existing/ Working Mining Lease Details*

SL. No	Existing/Working Mining Lease Details	MINEABLE RESERVE	Remarks
		IN TONNES	
1	M/S Ganpati Stone Enterprises Mauza - Murumatu P.S :- Tatijharia Circle :- Tatijharia Khata No.- 110, 29, 125, 78, 108, 86, 21, 62, 61, 50, 08, 122, 111, 34, 30, 43, 106 and 90 Plot No. 1160 to 1170, 1172 to 1176, 1179 to 1187, 1191, 1193 to 1196, <b>Area :- 5.87 acre /2.37 ha</b>	3,43,597.8	Working
2	M/s Laborious Construction Pvt. Ltd. Mauza - Murumatu P.S :- Tatijharia Circle :- Tatijharia Khata No.- 90, 10, 125, 01, 08, 43, 48, 70 and 119 Plot No. 1212, 1216 to 1221, 1269, 1288, 1237, 1270, 1271, 1272, 1235, 1285, 1289, 1241, 1238, 1240, 1239, 1236, 1243 and 1244, <b>Area :- 4.56 acre /1.84 ha</b>	3,74,585	Working
3	M/s Murumatu Stone Mines, Mauza – Murumatu, P.S :- Tatijharia Circle :- Tatijharia Khata No.- 48, Plot No. 1036, <b>Area :- 1.42 acre /0.57 ha</b>	45,837.576	Working
4	M/s Ramcon Infrastructures Pvt. Ltd. Mauza – Konharkalan, P.S :- Barkattha, Circle :- Barkattha, Khata No.-47,37,53,55 .and 56 Plot No. 837 to 839, 1000 to 1006, 1007(P), 1008 and 1013 <b>Area :- 4.50 acre /1.82 ha</b>	2,95,418	Working



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**District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



5	M/s Golden Stone Harvest Pvt. Ltd. Mauza – Konharkalan, P.S :- Barkattha, Circle :- Barkattha, Khata No.- 37,46, 55, and 65 Plot No. 912,915(P), 918(P),and 920 <b>Area :- 3.14 acre /1.27 ha</b>	5,91,903	Working
6	M/s J.C. Stone Works, Mauza – Konharkalan, P.S :- Barkattha, Circle :- Barkattha, Khata No.- 41, 38, 22, 04, 10, 03, 09, 07, 53, 37, 48, 40, 06 and 36, Plot No. 923(P), 925(P), 930, 931, 934, 935, 936, 937, 945, 947, 948, 949, 950, 951, 952, 953, 954, 1035, 1036, 1037, 1038 and 1039, <b>Area :- 4.00 acre /1.61 ha</b>	10,77,745.50	Working
7	M/s Saroj Stone, Mauza - Konharkalan, P.S :- Barkattha, Circle :- Barkattha, Khata No.- 46, 04, 19, 16, 63, and 55 Plot No. 940, 942, 926, 929, 933, 928, 932 and 491 <b>Area :- 2.27 acre /0.91 ha</b>	2,63,614.50	Working
8	M/s Maa Saraswati Stone Chips Works, Mauza -- Churchu, P.S :- Korra, Circle :- Sadar, Khata No.- 89, 99 and 149 Plot No. 10402, 10403, 10404, 10417 (P) and 10398 <b>Area :- 2.45 acre /0.99 ha</b>	3,06,810	Working
9	M/s Ganesh Stone Works, Mauza – Churchu, P.S :- Korra, Circle :- Sadar Khata No.- 149, Plot No. 10065 (P), <b>Area :- 3.00 acre /1.21 ha</b>	3,10,262.27	Working
10	M/s Jai Hanuman Stone Works, Mauza – Churchu, P.S :- Korra, Circle :- Sadar Khata No.- 149, Plot No. 10065 (P) <b>Area :- 4.00 acre /1.62 ha</b>	4,69,328.31	Working
11	Shri Chandradhari Prasad, Mauza – Pundari, P.S :- Korra, Circle :- Sadar, Khata No.- 63, Plot No. 13, <b>Area :- 2.40 acre /0.97 ha</b>	3,09,456	Working
12	M/s Vikas Minerals, Mauza – Bhatbigha, P.S :- Chauparan, Circle :- Chauparan, Khata No.- 01, 12, 33, 35, 47 and 50 Plot No. 540, 541, 547, 548, 549, 550, 551, 552, 553, 571(P) 600 and 601, <b>Area :- 2.40 acre /0.97 ha</b>	1,48,664	Working



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**District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



13	M/s Jai Shree Ram Stone Mines, Mauza – Dhabsaloniya, P.S :- Chauparan Circle :- Chauparan Khata No.- 16, 39, 18, and 15, Plot No. 16 to 19 <b>Area :- 1.54 acre /0.62 ha</b>	1,00,118.70	Working
14	Shree Nageshwar Rana and others, Mauza - Karma P.S :- Chauparan Circle :- Chauparan Khata No.- 27, 28, 30 and 31 Plot No. 766,767,768 and 769, <b>Area :- 3.10 acre /1.25 ha</b>	3,59,800	Working
15	M/s Shri Shantinath Minerals, Mauza - Dhabsaloniya P.S :- Chauparan Circle :- Chauparan Khata No.- 05, 10, 13, 29, 31 and 41 Plot No. 353 (P) 352, 269, 354, 267 and 268 <b>Area :- 3.17 acre /1.28 ha</b>	10,26,432.00	Working
16	Shree Bhagirath Yadav, Mauza – Basariya, P.S :- Barhi, Circle :- Barhi, Khata No.- 24, Plot No. 78 (P), <b>Area :- 1.40 acre /0.56 ha</b>	89,976	Working
17	M/s Maa Jagdamba Stone Works, Mauza – Jugra, P.S :- Barkagaon, Circle :- Barkagaon, Khata No.- 54, Plot No. 124 to 135 (P), 137 to 140 <b>Area :- 4.26 acre /1.72 ha</b>	5,70,000	Working
18	M/s Jamnijara Stone Mines, Mauza - Jamnijara P.S :- Vishnugarh Circle :- Vishnugarh Khata No.- 38, Plot No. 96/36, <b>Area :- 6.90 acre /2.79 ha</b>	12,44,187	Working
19	M/s Kusumbbha Stone Deposit, Mauza - Kusumbbha P.S :- Vishnugarh Circle :- Vishnugarh Khata No.- 31, Plot No. 325 (P), 327 (P) and 328 <b>Area :- 3.05 acre /1.23 ha</b>	5,00,107.50	Working
20	M/s Bhole Shankar Stone Works, Mauza - Kurkuttha P.S :- Dadhi Circle :- Dadhi Khata No.- 35, Plot No. 198 and 199 <b>Area :- 1.21 acre /0.48 ha</b>	1,10,351.43	Working
<b>TOTAL</b>		<b>8538194.586</b>	

*\*The above mineral reserve/ resource is as per approved mining plan of the respective mining leases.*



B



## 15 QUALITY/GRADE OF MINERAL AVAILABLE IN THE DISTRICT

### 15.1 MINERAL AVAILABLE IN THE DISTRICT

Various minerals have been reported to occur in the district of which Coal and Limestone are two major minerals found in the district. Among minor minerals Fireclay (Barkagaon, Barhi, Keredari, Churchu Blocks), Quartz, Felspar (Spread in all the Blocks where Granitic pegmatite are found), Granites (Ichak, Padma, Bishungarh), Building material (Stone Aggregate) in almost every location interspersed with dykes. Soapstone (Katkamsandi) have their presence in the district: -

- Coal
- Limestone
- Fire Clay
- Sandstone
- Soapstone
- Granite Gneiss



15



## **16 USE OF MINERAL**

Stones form one of the most important building materials in civil engineering. Stones are derived from rocks, which form the earth's crust and have no definite shape or chemical combination but are mixtures of two or more minerals. The mineral is a substance which is formed by the natural inorganic process and possesses a definite chemical combination and molecular structure. They are strong, durable and descent in appearance. Stone is an essential and more permanent building material in construction than other natural building materials. Based on the type, stones can be used in buildings for flooring, roofing, masonry paving roads and also as aggregates foe concrete. Most of the prehistoric monuments are built with natural stones as they remain stable with time.

Before the advent of concrete stones were highly preferred for heavy engineering works like bridge piers, harbour walls, sea side walls and for facing works. Stones for construction purposes are obtained by quarrying from solid massive rocks. The stone used for masonry construction should be hard, durable, tough and should be free from weathered soft patches of material, cracks and other defects that are responsible for the reduction of strength and durability.

Based on Geology, stones or rocks are classified into three types:

- Igneous Rocks – Basalt, Trap, Andesite, Rhyolite, Diorite, Granite.
- Sedimentary Rocks – Limestone, Dolomite and Sandstone.
- Metamorphic Rocks – Gneiss, Quartzite, Marble, Slate.

### **16.1 Types of Building Stones**

**Some of the common building stones which are used for different purposes in India are as follows: -**

#### **16.1.1 Limestone**

It is a sedimentary rock formed by remanants of seaweeds and living organisms consolidated and cemented together. It contains a high percentage of calcium carbonate. Limestone is largely used in producing cement. It is also used for melting iron, in chemical industry, in making soda ash, soap, colors and chemicals, building construction, paper and for refining sugar. Limestone is used for flooring, roofing, pavements and as a base material for cement.





### 16.1.2 Coal

Coal also has a myriad of other uses, including in cement production, carbon fibres and foams, medicines, tars, synthetic petroleum-based fuels, and home and commercial heating.



### 16.1.3 Fire Clay

Fireclays are useful in many types of ceramics including brick, certain types of tiles and sculpture and pottery clays. They impart plasticity and particle size distribution to the body and counter the early melting of any low temperature clays in the mix.



### 16.1.4 Granite Gneiss

Gneiss can be used for interior and exterior spaces in buildings, walls and landscaping. Interior uses of this stone are kitchen or bathroom countertops, decorative walls, flooring or interior decoration. Exterior uses are garden decoration, paving stone, facades or building stone.



*VB*



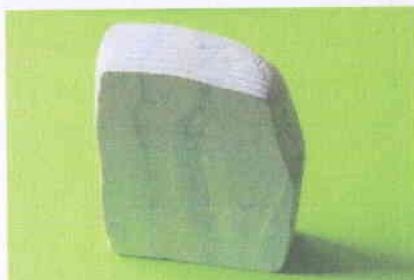
#### 16.1.5 Sandstone

Sandstone is used for a multitude of differing purposes, such as construction material, paving, Glass making and even the production of sand. Buildings such as the Pyramids of Giza. Sandstone made up the base of the Pyramids, with Polished Limestone Cladding the external of the Great Pyramids.



#### 16.1.6 Soapstone

As a metamorphic rock, it is very resistant to heat. In fact, soapstone is often used for casting metals, such as lead, pewter and silver. It has also been used traditionally for cooking pots, pizza stones and other cookware, fireplaces and wood-burning stoves, and even tobacco pipes.



#### 16.1.7 Decorative & Building Material (Stone Aggregate)

Sometimes referred to as decorative stones, these versatile materials are used to create ornamental and functional outdoor areas, such as footpaths, plant borders and rockeries. Natural material used as architectural trimmings in columns, fireplaces, and store fronts; may be set in silver- or gold-filled jewellery, as curio stones; e.g., malachite and marble. It is commonly used for all types of interior design projects.



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### **16.2 Uses of Building Stones**

The stones used for various types of works are as follows:

- Fine-grained granite and gneiss stones are used for heavy engineering works such as building bridge piers, breakwaters, monuments etc.
- Granite Quartzite and compact Sandstones are used for masonry works in industrial areas exposed to smoke and fumes.
- Marble, Granite and Sandstones are used for facing work of buildings.
- Limestone and Sandstone are used for general building works.
- Fine-grained Granite, Marble and soft Sandstones are used for carving and ornamental works.
- Compact Limestone and Sandstones are used for fire-resitant masonry.
- Granite, Quartzite stones are used in foundations of building in place with high groundwater level.
- Marble, Slate, Sandstone and Granite stones are used for floor paving.



*13*



## 17 DEMAND AND SUPPLY OF THE MINOR MINERAL IN LAST THREE YEARS

In the present scenario, the stone boulders & chips have good market in all regions of the country for construction of buildings, roads, bridges, railway line and other constructional purposes. As such there are huge infrastructural activities such as road, building, railways are coming up by Govt. of India & PSUs under “Make in India” programme. The production of stone boulders & chips are the main raw minerals for the above activities and considering the last three years’ actual production of Hazaribagh with respect to the requirement of the State has a huge gap. It is proposed to start the stone production from larger areas to at least double the production of the district which will enhance the revenue of the district and also support the livelihood of the local people.

The mining project will also bring economic benefits to the State by the ways of royalty of stone as well as benefit to the lessee. It will help in general of employment in rural areas in Jharkhand State where tribal people are starving due to unemployment. A single mining project shall be providing employment to approximately 10 to 20 people of the poorest section of the society and benefitting more than 50 to 60 people indirectly. Further, infrastructure development will help in development of nation. Socio-economic condition of the area will be improved as mining activity will create additional employment for the local habitants for raising their socio-economic status. Significant contribution will be made by lessee towards societal development of the surrounding area in the form of CSR fund.

*There is a huge demand of stone chips for domestic and infrastructure sector. Only a few stone mines have environmental clearance for extraction of stone. There is limited supply of stone and there is huge gap. Due to construction of roads and public buildings for development works in the district a large number of stone chips & boulders are required. This will meet only by granting new leases in the district. The major part of the stone mineral will be supplied to the private and Government projects of RCD, PWD work, canal work & government building, Pradhan Mantri Awas Yojana (PMAY), Mukhyamantri Gramya Setu Yojana (MGSY) etc.*



**District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



DISTRICT	FY	PRODUCTION In (cft)	DISPATCH In (cft)
Hazaribagh	2021-22	5019042	2749549
	2022-23	8737250	6853900
	2023-24	11476950	12725262
<b>TOTAL</b>		<b>25233242</b>	<b>22328711</b>

In the present scenario, the Stone boulders & chips have good market in all regions of the country for construction of buildings, roads, bridges, railway line and other constructional purposes. As such there are huge infrastructural activities such as road, building, railways are coming up by Govt. of India & PSUs under “Make in India” programme. The production of Stone boulders & chips are the main raw minerals for the above activities and considering the last three years’ actual production with respect to the requirement of the State has a huge gap. It is proposed to start the Stone production from larger areas to at least double the production of the district which will enhance the revenue of the district and also support the livelihood of the local people.

Based on the revenue report for last 3 years 2022 to 2024 there is an increase in demand of ordinary Stone. Low demand of stone in year 2022 is due to impact of Covid-19. The rational demand projected 6.5% to 7% till March 2025 as per the economic survey 2023-24 report.



**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



**18 MINING LEASES MARKED ON THE MAP OF THE DISTRICT**

As per record of Hazaribagh District Mining Office, 25 Stone mining leases are registered out of which only 20 mining leases are in operational in current. The location of mining leases is given in Table 20.1 & Figure: 20.1: Location of Mining Lease in the Map of Hazaribagh district.

Table 18-1:- Location of Mining Lease in the Hazaribagh district.

Sl. No	Name of the Mineral	Name of the lessee	Address & Contact No. of Letter of intent Holder	Status (Working/Non-Working/ Temp. working for dispatch etc.)	Location of the Mining lease (Latitude & Longitude)
1	Stone	M/S Ganpati Stone Enterprises	Partner-(1) Shri Koleshwar Prasad Mehta, Father- Shri Kamal Ram, (2) Shri Mukesh Kumar, Father-Shri Mahendra Prasad Mehta, (3) Shri Arvind Kumar, Father-Shri Bateshwar Mehta, Villages- Chanda, P.O+P.S- Ichak, Dist.- Hazaribagh	Working	24°00'51.6"N to 24°00'59.0"N 85°38'31.2"E to 85°38'39.3"E
2	Stone	M/S Laborious Construction Pvt. Ltd.	Shri Om Prakash Mehta, Father- Shri Bangali Prasad Mehta, Village+P.O- Padma, Dist.- Hazaribagh	Working	24°00'59.275"N to 24°01'05.10"N 85°38'26.14"E to 85°38'35.07"E
3	Stone	M/S Murumatu Stone Mines	Partners- (1) Shri Arvind Kumar Mehta, Father- Shri Budhnath Prasad Mehta, Vill.+P.O- Dumrone, P.S- Ichak, Dist.-Hazaribagh (2) Shri Ajay Prasad Mehta, Father- Shri Vasudev Mehta, Vill.- Chanda, P.O+P.S-Ichak, Dist.- Hazaribagh	Working	24°01'02.62"N to 24°01'05.36"N 84°38'38.78"E to 84°38'42.95"E
4	Stone	M/S Ramcon Infrastructures Pvt. Ltd.	Director- Shri Nilesh Ranjan with others, Father- Shri Saryu Prasad Mehta , Vill.+P.O- Behradih, Thana- Domchanch, Dist.- Koderma	Working	24° 10' 5.055" N to 24° 10' 12.147" N 85° 35' 13.709" E to 85° 35' 20.084" E



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**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



5	Stone	M/S Golden Stone harvest Pvt. Ltd.	Director- Shri Shivesh Singh, Father- Shri Shiv Mangal Singh, Office Address- F-14, City Centre, Club Road, P.O- Lower Bazar, Thana- Chutia, District- Ranchi	Working	24° 10' 14.83" N to 24° 10' 18.53" N 85° 35' 05.8" E to 85° 35' 12.01" E
6	Stone	M/S J.C Stone Works	Prop.- Shri Ajit Kumar, Father- Shri Janki Yadav, Vill.- Chatkari, P.O+P.S- Chalkusha, Dist.- Hazaribagh	Working	24°10'08.26"N to 24°10'14.67"N 85°35'05.40"E to 85°35'11.01"E
7	Stone	M/S Saroj Stone	Partners- (1) Shri Sanjay Kumar, Father-Shri Bandhan Ram, Vill.+P.O+P.S- Chandwara, Dist.- Koderma (2) Mohd. Minhaj Aalam, Father- Ataul Aalam, Vill.- Kamalpur (Ansar Nagar), P.O+P.S-Nawada, Dist.- Nawada (Bihar)	Working	24° 10' 10.2" N to 24° 10' 15.5" N 85° 35' 02.0" E to 85° 35' 06.2" E
8	Stone	M/S Maa Saraswati Stone Chips Works	Partners- (1) Shri Rajendra Prasad, Father- Late Dashrath Mahto (2) Shri Raj Kumar Prasad, Father- Late Nageshwar Mahto, Vill.-Churchu, P.O- Ichak, P.S- Sadar, Dist.- Hazaribagh	Working	24° 2' 11.183" N to 24° 2' 16.489" N 85° 24' 10.673" E to 85° 24' 16.010" E
9	Stone	M/S Ganesh Stone Works	Partners- (1) Shri Suresh Kumar, Father- Shri Sehdev Prasad Mehta (2) Shri Vikas Kumar, Father- Shri Indra Prasad Mehta, Vill.-Churchu, P.O- Ichak, P.S- Sadar, Dist.- Hazaribagh	Working	24° 2' 25.358" N to 24° 2' 29.089" N 85° 24' 35.545" E to 85° 24' 39.826" E
10	Stone	M/S Jai Hanuman Stone Works	Partners- (1) Shri Rakesh Ranjan, Father- Shri Badri Prasad Mehta, Vill.- Sindur, P.O+P.S-Sadar, Dist.- Hazaribagh (2) Shri Kailash Prasad, Father- Shri Butan Mahto, Vill.- Churchu, P.O- Ichak, P.S-Sadar, Dist.- Hazaribagh	Working	24° 2' 25.861" N to 24° 2' 30.426" N 85° 24' 42.256" E to 85° 24' 47.371" E



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**District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



11	Stone	Shri Chandradhari Prasad	Shri Chandradhari Prasad, Father-Late Thakur Mahto, Vill.- Churchu, P.O- Ichak, P.S- Sadar, Dist.- Hazaribagh	Working	24° 2' 14.556" N to 24° 2' 19.136" N 85° 24' 21.355" E to 85° 24' 25.621" E
12	Stone	M/S Vikas Minerals	Prot.- Mrs. Hemlata Devi, Husband- Late Shankar Yadav, Vill.- Jhumri, P.O- Karma, P.S- Tilaiya, Dist.- Koderma	Working	24° 23' 1.230" N to 24° 23' 6.374" N 85° 24' 26.355" E to 85° 24' 34.301" E
13	Stone	M/S Jai Shree Ram Stone Mines	Prop.- Shri Kailash Yadav, Father-Late Todi Yadav, Vill.- Dhab, P.O- Dhabtham, P.S- Chandwara, Dist.- Koderma	Working	24°22'48.02"N to 24°22'51.12"N 85°24'240.34"E to 85°24'45.45"E
14	Stone	Shri Nageshwar Rana and others	Shri Nageshwar Rana and others, Father- Late Maran Ram, Vill.- Purnadih, P.O- Dhabtham, P.S- Chandwara, Dist.- Koderma	Working	24°24'40"N to 24°24'50"N 85°24'50"E to 85°24'45"E
15	Stone	M/S Shree Shantinath Minerals	Partners- (1) Ishaan Jain, Father- Shri Manoj Kumar Jain, Pani Tanki Road, Jhumri Telaiya, Dist.- Koderma (2) Shri Manish Kumar Gangwal, Father- Jai Kumar Jain, Chandak Complex, Ranchi Patna Road, Jhumri Telaiya, Dist.- Koderma	Working	24°22'09.57"N to 24°22'13.91"N 85°24'47.34"E to 85°24'55.03"E
16	Stone	Shri Bhagirath Yadav	Shri Bhagirath Yadav, Father- Mr. Bhikhari Yadav, Vill.- Padirma, P.S- Barhi, Dist.- Hazaribagh	Working	24.293478 to 24.294059 85.455752 to 85.456866
17	Stone	M/S Maa Jagdamba Stone Works	Partner - Shri Shailendra Kumar Mehta and others, Father- Shri Yugal Kishore Mehta, Address- Hurhuru Road, Near K.B High School, Hazaribagh	Working	23°51'15.31"N 85°13'23"E
18	Stone	M/S Jamnijara Stone Mines	Prop.- Shree Rameshwar Mahto, Father- Late Dhanu Mahto, Vill.- Jamnijara, P.O- Konar Dam, Thana- Vishnugarh, Dist.- Hazaribagh	Working	23°57'02.24"N to 23°57'08.37"N 85°47'10.15"E to 85°47'19.188"E



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**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



19	Stone	M/S Kushumbha Stone Deposit	Partner- (1) Shri Anirudh Singh, Father- Shree Prafullo Singh, Vill.- Saroni, P.O.- Silwar , Thana- Muffasil (2) Shri Binod Kumar Kushwaha, Father- Pannu Prasad Kushwaha, Panditji Road, Hurhuru, Thana-Sadar, Dist.- Hazaribagh	Working	23° 58' 38.48" N to 23° 58' 44.00" N 85° 45' 21.18" E to 85° 45' 26.01" E
20	Stone	M/S Bhole Shankar Stone Works	Partner- (1) Shri Subhash Kumar Verma, Father- Shri Kailash Prasad Verma, Vill.- Giddhi, P.O-Religada, Thana - Giddhi, Dist.- Hazariabagh (2) Shri Suresh Kumar Sinha, Father- Late Shiv Charanlal, Vill.- Jai Prakash Marg, Thana-Sadar, P.O+Dist.- Hazaribagh (3) Shri Gyan Prakash, Father- Late Awadh Kishore Prasad, Thana- Katkamdag, Dist.- Hazaribagh (4) Shree Rajesh Kumar Sahoo, Father- Late Bharat Sahoo, Vill.- Kurkutta, P.O+P.S- Giddhi, Dist.- Hazaribagh	Working	24° 42' 28.236" N to 24° 42' 31.046" N 85° 20' 45.585" E to 85° 20' 49.270" E



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# District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.

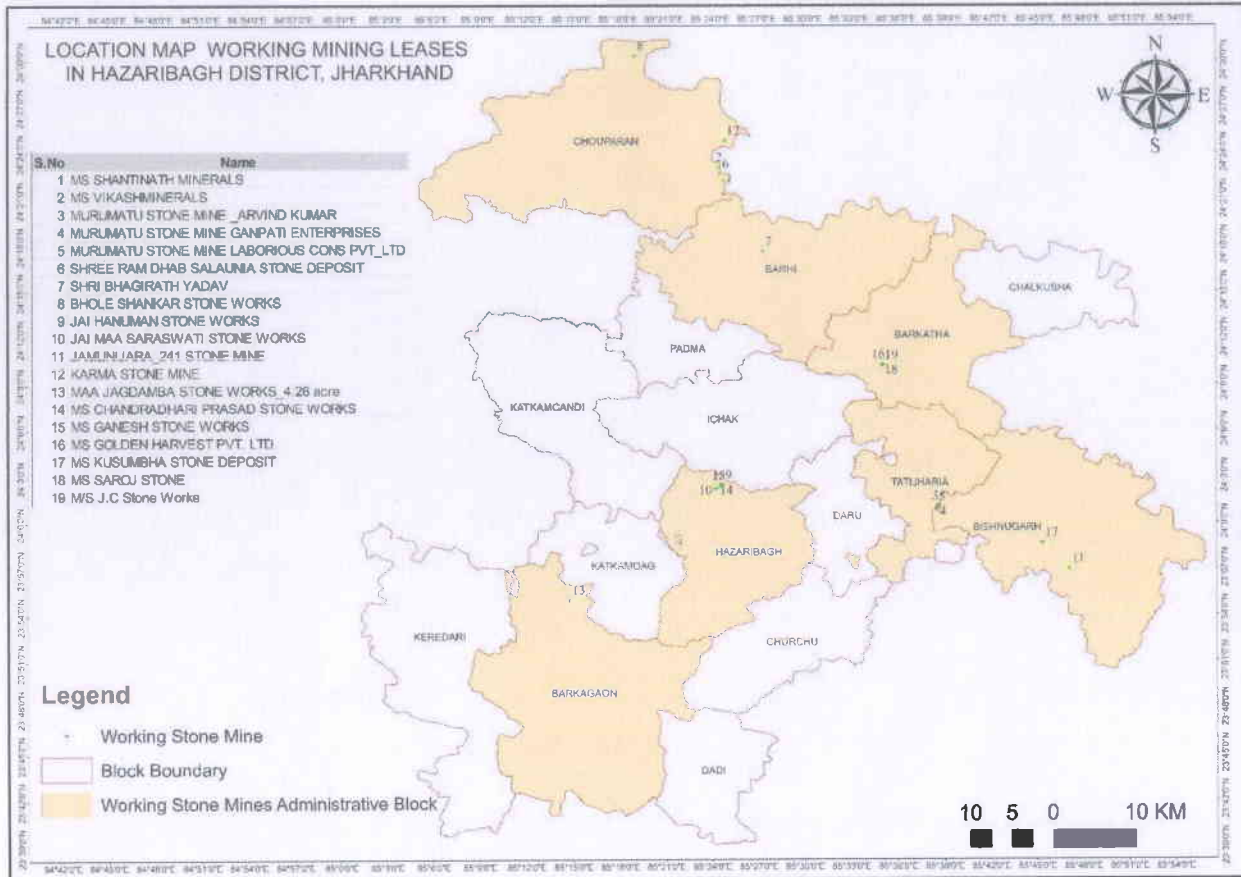


Figure 18-1:- Location Map Working Mining Leases in District Hazaribagh



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**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



**19 DETAILS OF THE AREA OF WHERE THERE IS A CLUSTER OF MINING LEASES VIZ. NUMBER OF MINING LEASES, LOCATION (LATITUDE & LONGITUDE)**

Sl. No	Name of the Lessee & Address & Contact No. of Lessee	Mauza	Land Details with area	Current Status	Latitude & Longitude
1	2	3	4	5	6
<b>Circle- Tati Jharlia (3)</b>					
1	M/S Ganpati Stone Enterprises Partner-(1) Shri Koleswar Prasad Mehta, Father- Shri Kamal Ram, (2) Shri Mukesh Kumar, Father- Shri Mahendra Prasad Mehta, (3) Shri Arvind Kumar, Father- Shri Bateswar Mehta, Villages- Chanda, P.O+P.S- Ichak, Dist.- Hazaribagh	Murumatu	Khata no- 110,29,125,78,108,86,21,62, 61,50,08,122,111,34,30,43,1 06 & 90, Plot no-1160 to 1170, 1172 to 1176, 1179 to 1187, 1191 to 1193, AREA: 5.87 ACRE	Working	24°00'51.6"N to 24°00'59.0"N 85°38'31.2"E to 85°38'39.3"E
2	M/S Laborious Construction Pvt. Ltd. Shri Om Prakash Mehta, Father- Shri Bangali Prasad Mehta, Village-P.O- Padma, Dist.- Hazaribagh	Murumatu	Khata no- 90,10,125,01,08,43,48,70 & 119 ,Plot no- 1212, 1216 to 1221,1269,1288,1237,1270,1 271,1272,1235,1285,1289,12 41,1238,1240,1239,1236,124 3 &1244, AREA: 4.56 ACRE	Working	24°00'59.275"N to 24°01'05.10"N 85°38'26.14"E to 85°38'35.07"E
3	M/S Murumatu Stone Mines Partners- (1) Shri Arvind Kumar Mehta, Father- Shri Budhnath Prasad Mehta, Vill. +P.O- Dumrone, P.S- Ichak, Dist.-Hazaribagh (2) Shri Ajay Prasad Mehta, Father- Shri Vasudev Mehta, Vill.-Chanda, P.O+P.S-Ichak, Dist.-Hazaribagh	Murumatu	Khata no- 48, Plot no- 1036, Area-1.42 ACRE	Working	24°01'02.62"N to 24°01'05.36"N 84°38'38.78"E to 84°38'42.95"E



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**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



Sl. No	Name of the Leasee & Address & Contact No. of Leasee	Mauza	Land Details with area	Current Status	Latitude & Longitude
1	2	3	4	5	6
<b>Circle- Barkatta (4)</b>					
4	M/S Ramcon Infrastructures Pvt. Ltd. Director- Shri Nilesh Ranjan with others. Father- Shri Saryu Prasad Mehta , Vill. +P.O- Behradih, Thana- Domchanch, Dist.- Koderma	Konharakalan	Khata no- 47,37,53,55 & 56, Plot no- 837,838,839,1000,1001,1002 ,1003,1004,1005,1006,1007( P),1008,1009,1010 & 1013, AREA- 4.50 acre	Working	24° 10' 5.055" N to 24° 10' 12.147" N 85° 35' 13.709" E to 85° 35' 20.084" E
5	M/S Golden Stone harvest Pvt. Ltd. Director- Shri Shivesh Singh, Father- Shri Shiv Mangal Singh, Office Address- F-14, City Centre, Club Road, P.O- Lower Bazar, Thana- Chutia, District- Ranchi	Konharakalan	Khata no- 37,46,55 & 65, Plot no- 912, 915(P),918(P) & 920, AREA- 3.145 ACRE	Working	24° 10' 14.83" N to 24° 10' 18.53" N 85° 35' 05.8" E to 85° 35' 12.01" E
6	M/S J.C Stone Works Prop.- Shri Ajit Kumar, Father- Shri Janki Yadav, Vill.- Chatkari, P.O+P.S-Chalkusha, Dist.- Hazaribagh	Konharakalan	Thana no- 94, Khata no- 41,38,22,04,10,03,09,07,53,3 7,48,40,06 & 36, Plot no- 923(P), 925(P), 930,931,934,935,936,937,94 5,947,948,949,950,951,952,9 53,954,1035,1036,1037,1038 & 1039, area- 4.00 acre	Working	24°10'08.26"N to 24°10'14.67"N 85°35'05.40"E to 85°35'11.01"E



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**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



Sl. No	Name of the Lessee & Address & Contact No. of Lessee	Mauza	Land Details with area	Current Status	Latitude & Longitude
	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
1	M/S Saroj Stone Partners- (1) Shri Sanjay Kumar, Father-Shri Bandhan Ram, Vill. +P.O.+P.S.- Chandwara, Dist.- Koderma	Koniharakalan	Thana no- 94, Khata no- 46,04,19,16,63, & 55, Plot no- 940, 942, 926, 929, 933, 928, 932 & 491, AREA- 2.27 ACRE	CLOSED	24° 10' 10.2" N to 24° 10' 15.5" N 85° 35' 02.0" E to 85° 35' 06.2" E
7	(2) Mohd. Minhaj Aalam, Father- Ataulil Aalam, Vill.- Kamalpur (Ansar Nagar), P.O.+P.S.- Nawada, Dist.-Nawada (Bihar)				
<b>Circle- Sadar (Hazaribagh) (4)</b>					
8	M/S Maa Saraswati Stone Chips Works Partners- (1) Shri Rajendra Prasad, Father- Late Dashrath Mahto (2) Shri Raj Kumar Prasad, Father- Late Nageshwar Mahto, Vill.-Churchu, P.O- Ichak, P.S-Sadar, Dist.- Hazaribagh	Churchu	Khata no- 89,99, & 149, Plot no- 10402, 10403, 10404, 10417(P), & 10398, AREA- 2.45 ACRE	Working	24° 2' 11.183" N to 24° 2' 16.489" N 85° 24' 10.673" E to 85° 24' 16.010" E
9	M/S Ganesh Stone Works Partners- (1) Shri Suresh Kumar, Father- Shri Sehdev Prasad Mehta (2) Shri Vikas Kumar, Father- Shri Indra Prasad Mehta, Vill.-Churchu, P.O- Ichak, P.S-Sadar, Dist.- Hazaribagh	Churchu	Khata no- 149, Plot no- 10065 (P), AREA- 3.00 ACRE	Working	24° 2' 25.358" N to 24° 2' 29.089" N 85° 24' 35.545" E to 85° 24' 39.826" E



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**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



Sl. No	Name of the Leasee & Address & Contact No. of Leasee	Mauza	Land Details with area	Current Status	Latitude & Longitude
1	2	3	4	5	6
10	M/S Jai Hanuman Stone Works Partners- (1) Shri Rakesh Ranjan, Father- Shri Badri Prasad Mehta, Vill.- Sindur, P.O+P.S-Sadar, Dist.- Hazaribagh (2) Shri Kailash Prasad, Father- Shri Butan Mahto, Vill.- Churchu, P.O- Ichak, P.S-Sadar, Dist.- Hazaribagh	Churchu	Khata no- 149, Plot no- 10065 (P), AREA- 4.00 ACRE	Working	24° 2' 25.861" N to 24° 2' 30.426" N 85° 24' 42.256" E to 85° 24' 47.371" E
11	Shri Chandradhari Prasad Shri Chandradhari Prasad, Father- Late ThakurMahto, Vill.- Churchu, P.O- Ichak, P.S-Sadar, Dist.- Hazaribagh	Pundari	Khata no- 63, Plot no- 13, AREA- 2.40 ACRE	Working	24° 2' 14.556" N to 24° 2' 19.136" N 85° 24' 21.355" E to 85° 24' 25.621" E
<b>Circle- Chauparan (4)</b>					
12	M/S Vikas Minerals Prof.- Mrs. Hemlata Devi, Husband- Late Shankar Yadav, Vill.- Jhumri, P.O- Karma, P.S- Tilaiya, Dist.-Koderm	Bhatigha	Khata no- 01,12,33,35,47 & 50, Plot no- 540,541,547, 548,549,550,551,552,553,571(P), 600 & 601, Area- 2.40 ACRE	Working	24° 23' 1.230" N to 24° 23' 6.374" N 85° 24' 26.355" E to 85° 24' 34.301" E
13	M/S Jai Sri Ram Stone Mines Prop.- Shri Kailash Yadav, Father- Late Todi Yadav, Vill.- Dhab, P.O- Dhabtham, P.S- Chandwara, Dist.- Koderma	Dhabsaloniya	Thana n0- 181, Khata no- 16,39,18 & 15, Plot no- 16,17,18,19, Area- 1.54 Acre	Working	24°22'48.02"N to 24°22'51.12"N 85°24'240.34"E to 85°24'45.45"E
14	Shri Nageshwar Rana and others Shri Nageshwar Rana and others, Father- Late Maran Ram, Vill.- Purnadith, P.O- Dhabtham, P.S- Chandwara, Dist.- Koderma	Karma	Khata no- 27,28,30,31, Plot no- 767,769,766 & 768, Area- 3.10 Acre	Working	24°24'40"N to 24°24'50"N 85°24'50"E to 85°24'45"E



**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



Sl. No	Name of the Leasee & Address & Contact No. of Leasee	Mauza	Land Details with area	Current Status	Latitude & Longitude
1	2 M/S Shree Shantinath Minerals Partners- (1) Ishaan Jain, Father- Shri Manoj Kumar Jain, Pani Tanki Road, Jhumri Telaya, Dist.- Koderma (2) Shri Manish Kumar Gangwal, Father-Jai Kumar Jain, Chandak Complex, Ranchi Patna Road, Jhumri Telaya, Dist.- Koderma	3 Dhabsaloniya	4 Thana no- 181, Khata no- 05,10,13,29,31 & 41, Plot no- 353(P), 352,269,354,267 & 268, Area- 3.17483 Acre	5 CLOSED (CTO NOT OBTAIN ED)	6 24°22'09.57"N to 24°22'13.91"N 85°24'47.34"E to 85°24'55.03"E
<b>Circle- Barhi (1)</b>					
16	Shri Bhagirath Yadav Shri Bhagirath Yadav, Father- Mr. Bhikhari Yadav, Vill.- Padirma, P.S- Barhi, Dist.- Hazaribagh	Basariya	Khata no- 24, Plot no- 78(P), Area- 1.40 Acre	Working	24.293478 to 24.294059 85.455752 to 85.456866
<b>Circle- Barkagaon (1)</b>					
17	M/S Maa Jagdamba Stone Works Partner - Shri Shailendra Kumar Mehta and others, Father- Shri Yugal Kishore Mehta, Address- Hurihuru Road, Near K.B High School, Hazaribagh	Jugra	Khata no- 54, Plot no- 124,125,126,127,128,129,130,131,132,133,134,134(P), 137,138,139,140, Area- 4.26 Acre	Working	23°51'15.31"N 85°13'23"E
<b>Circle- Vishnugarh (2)</b>					
18	M/S Jammijara Stone Mines Prop.- Shree Rameshwar Mahto, Father- Late Dhanu Mahto, Vill.- Jammijara, P.O- Konar Dam, Thana- Vishnugarh, Dist.- Hazaribagh	Jammijara	Khata no- 38, Plot no- 96/36, Area- 6.90 Acre	Working	23°57'02.24"N to 23°57'08.37"N 85°47'10.15"E to 85°47'19.188"E



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**District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Hazaribagh District, Jharkhand.**



Sl No	Name of the Lessee & Address & Contact No. of Lessee	Mauza	Land Details with area	Current Status	Latitude & Longitude
1	2	3	4	5	6
19	M/S Kushumbhna Stone Deposit Partner- (1) Shri Anirudh Singh, Father- Shree Prafullo Singh, Vill.- Saromi, P.O.- Silwar, Thana- Muffasil (2) Shri Binod Kumar Kushwaha, Father- Pannu Prasad Kushwaha, Panditji Road, Hurhuru, Thana- Sadar, Dist.- Hazaribagh	Kusumbha	Thana no- 236, Khata no- 31, Plot no- 325(P), 327(P), & 328, Area- 3.05 Acre	Working	23° 58' 38.48" N to 23° 58' 44.00" N 85° 45' 21.18" E to 85° 45' 26.01" E
<b>Circle- Dadhi (1)</b>					
20	M/S Bhole Shankar Stone Works Partner- (1) Shri Subhash Kumar Verma, Father- Shri Kailash Prasad Verma, Vill.- Giddhi, P.O.- Religada, Thana - Giddhi, Dist.- Hazaribagh	Kurkutta	Khata no- 35, Plot no- 198 & 199, Area-1.21 Acre	Working	24° 42' 28.236" N to 24° 42' 31.046" N 85° 20' 45.585" E to 85° 20' 49.270" E



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**20 DETAILS OF ECO-SENSITIVE AREA**

**Hazaribagh Wildlife Sanctuary** (earlier called **Hazaribagh National Park**) is a wildlife sanctuary in Jharkhand, India, about 55 miles (89 km) north of Ranchi. It was established in 1955. Its hills are covered by a dense forest of sal (*Shorea robusta*). Hazaribagh Wildlife Sanctuary has a wide range of biodiversity. In the past, the protected area was known as the home of sambhar, the largest deer species of India. The habitat is also now shared by cheetals, wild boars, black bears, jackals, porcupines, hyenas, pangolins, hares, etc. The important bird species which can be spotted frequently are serpent eagle, paradise fly catcher, king fisher, bee eater, swift, different types of babblers, black drongo, wood pecker, lapwing, pea fowl, pond heron, egret, etc. Sometimes carnivores like wolves and leopards are also spotted. In the District Gazetteer of Hazaribagh, 1917, it was observed that the hills of Danto served as the permanent habitat of tigers and that of leopards which were frequently visited the town of Hazaribagh. The forests of the Sanctuary also fall in the home range of elephant. Very recently, a tiger visited Hazaribagh Wildlife Sanctuary and nearby areas and stayed for around two weeks.

Table 20-1:- Eco-Sensitive area details

<b>Name of Sanctuary</b>	<b>Notification of Sanctuary</b>	<b>Area (Sanctuary)</b>	<b>ESZ Notification &amp; Date</b>	<b>Area (ESZ)</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
Hazaribagh Wildlife Sanctuary	<a href="#">S.O. No 955 Dated 24.05.1976 Govt. of Bihar</a>	186.25 sq.km	<a href="#">S.O. No 2775 (E) Dated 01.08.2019</a>	573.86 sq.km



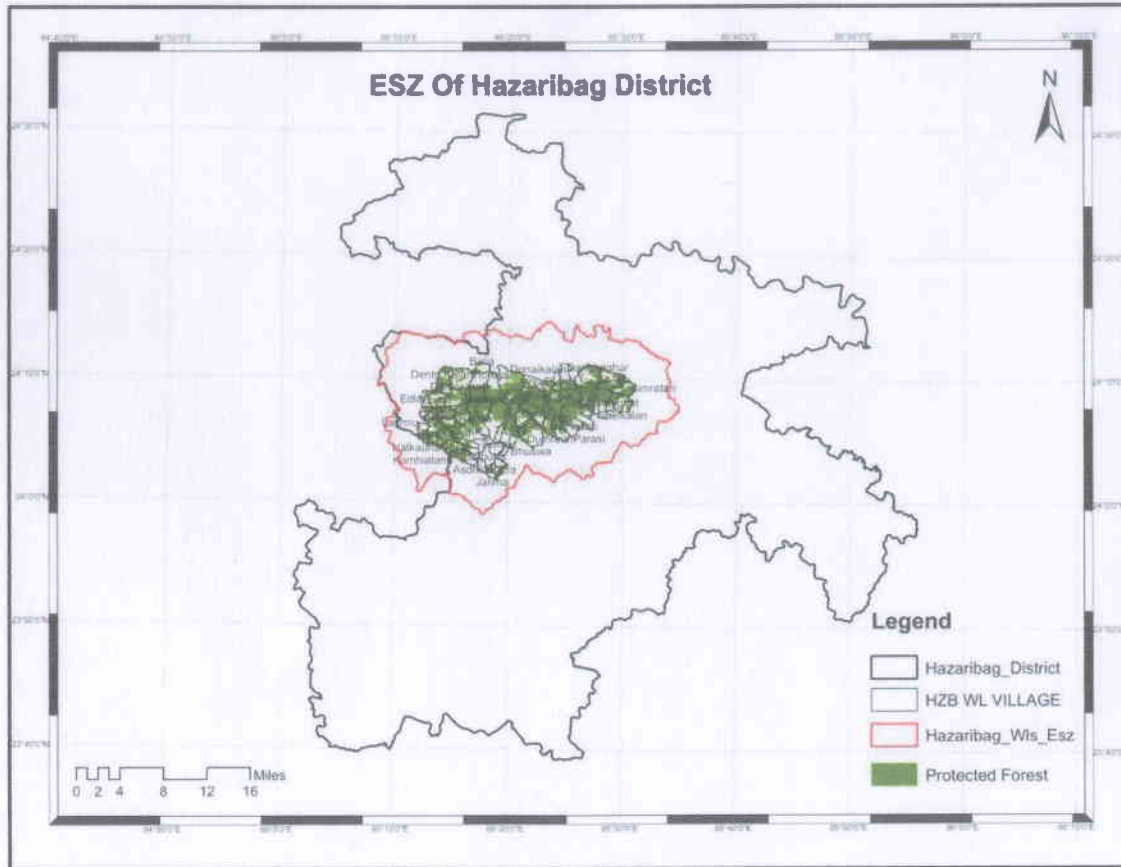


Figure 20-1:- Eco-Sensitive area Map



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**21 IMPACT ON THE ENVIRONMENT DUE TO MINING**

ENVIRONMENTAL IMPACTS	IMPACTS	MITIGATION MEASURES
Air Environment	<p>In some lease surroundings only, a few households are living in the area and population density of village is very less. The area does not have any industrial activity in the core/buffer zone and hence, the ambient air quality of the area is good. Mining will be carried out in a limited area with OTFM mining method. Hence, impact on air quality due to mining will not be significant.</p> <p>Dust Generation due to Drilling Blasting Crushing Transportation on haul road or unpaved road. Operation of mining equipment</p>	<p>All machineries and transport vehicles will be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control.</p> <p>Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste.</p> <p>Tree plantation along the haul roads &amp; approach road will be done.</p> <p>Use of personal protective equipment like dust mask.</p> <p>Ambient air pollution monitoring will be carried out.</p>
Water Environment Surface Water  Ground Water	<p>There is no any surface water body in and around the lease area. Hence, effect on surface water quality will be negligible. Many rivers are flowing in and around the mine site, but all are far away from the mine leases and effect on water quality of the river is not expected as no water is allowed to flow directly from the mine site.</p> <p>Mining operation will be carried out in limited scale on a small area above groundwater level. The mineral formation does not contain any harmful elements; hence no contamination will take place into ground water.</p>	<p>Mining is proposed to plan above the ground water table.</p> <p>Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system.</p> <p>For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.</p> <p>Movement of heavy vehicles may be restricted to lease area and road so that leaking oil &amp; grease may not contaminate water quality.</p>
Noise Level	Noise will be created by the movement of the tractors/dumpers/heavy machines etc. However, noise generated by these will be occurring at the	Diesel powered machineries, which is major source of noise in open cast mining shall be properly



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	<p>very low level and ambient noise level in the buffer zone shall be within permissible limit of CPCB.</p>	<p>maintained. Attention shall be paid towards rigorous maintenance of the silencer of the diesel engines. Protective devices shall be provided for use of persons employed in the vicinity of high noise areas. With the adoption of controlled blasting techniques, the ground vibrations will be minimized. Plantation around the lease boundary will cut the noise levels.</p>
<p><b>Land Environment</b></p>	<p>Mining operation will be carried out in limited scale on a small barren area. Very little amount of soil is present in small patches. Soil within the leasehold area will be used for plantation purpose. Mining Activities are likely to impact on soil quality as; Loss of topsoil Productivity of Soil Contamination of oil or chemical in Soil</p>	<p>The mining activities will be restricted within the lease area only. The waste material will be utilized for the construction of road and also will be used by the local people for construction work. Retaining wall and garland drains for the proposed waste dump will be constructed to arrest wash offs from the dump. Maintenance/repair of vehicles and machineries will not be inside the mining area. However, steel trays will be used for any emergency repair and sudden leakage of oil. Topsoil's are to be removed &amp; stored in an identified area. In order to conserve the quality of topsoil, grass cover is to be developed on topsoil dumps, Such conserved topsoil may be used for land reclamation &amp; development of greenbelt Movement of heavy mining machineries on agriculture land and productive land should be restricted. Movement of heavy vehicles may be restricted to lease area and road so that leaking oil &amp; grease may not contaminate soil quality.</p>



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<p>Biological Environment</p>	<p>All the leasehold area is barren. Hence, impact on biological environment in not expected.                  Mining Activities are likely to Impact on Bio-Diversity of the region as;                  Habitat Destruction                  Ecosystem Disruption                  Damaging</p> <p>Extensive plantation comprising of pollutant resistant trees will be undertaken, which will serve not only as pollution sink but also as a noise barrier.                  The impact on the fauna due to the mining activity will be insignificant. The progressive plantation over a period of time will reduce the impact, if any, on the fauna.                  Considering importance of impact of environmental impact on eco-system in the study area, a series of mitigation measures are incorporated in planning of stone mine &amp; its operation such mitigation measures are given below;                  Mine sites are selected considering siting criteria prescribed by Government (JSEIAA/ JSPCB/MOEF &amp; CC).                  Avoid site which have tree cover.                  Avoid site through which drainage channels passes through.                  Ecological Assessment: Conduct a thorough ecological survey to identify species and habitats present.                  Buffer Zones: Establish buffer zones around sensitive habitats to minimize disturbance.                  Minimize Habitat Destruction: Plan site layout to avoid key habitats and minimize vegetation clearing.                  Translocation: Consider translocating significant flora and fauna to safe areas.                  Restoration Plans: Develop a habitat restoration plan for post-mining activities.                  The impact on flora and fauna of forests in vicinity of the mining are should be prepared and implemented by</p>
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		<p>the lessee at project cost in consultation with the concerned Divisional Forest Officers</p>
<p><b>Socio-economic Environment</b></p>	<p>There is no habitat in the lease hold area as well as within 500 m from lease boundary. There will be no adverse impact of mining.</p>	<p>The pit pond after mine closure shall be used for agricultural purpose, growing of fish, drinking water for animal and other domestic uses. Applicant will provide the occupational health and safety by providing regular medical check-up and medicine distribution. Mining operation will improve the financial status of the local people.</p>
<p><b>Impact on Agriculture</b></p>	<p>Some form of agricultural use may be possible in sites that are adjacent to farmland provided the soil and topography are favorable. Agricultural and horticultural crops can be grown in a variety of materials.</p>	<p>Agricultural and horticultural crops will be grown in a variety of materials. The range of possibilities include arable cropping, grazing in either productive low land or over upland pasture.</p>



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**22 REMEDIAL MEASURES TO MITIGATE THE IMPACT OF MINING ON THE ENVIRONMENT**

ENVIRONMENTAL IMPACTS	IMPACTS	MITIGATION MEASURES
<p>Air Environment</p>	<p>In some lease surroundings only, a few households are living in the area and population density of village is very less. The area does not have any industrial activity in the core/buffer zone and hence, the ambient air quality of the area is good. Mining will be carried out in a limited area with OTFM mining method. Hence, impact on air quality due to mining will not be significant.                      Dust Generation due to                      Drilling                      Blasting                      Crushing                      Transportation on haul road or unpaved road.                      Operation of mining equipment</p>	<p>All machineries and transport vehicles will be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control.                      Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste.                      Tree plantation along the haul roads &amp; approach road will be done.                      Use of personal protective equipment like dust mask.                      Ambient air pollution monitoring will be carried out.</p>
<p>Water Environment                      Surface Water                        Ground Water</p>	<p>There is no any surface water body in and around the lease area. Hence, effect on surface water quality will be negligible. Many rivers are flowing in and around the mine site, but all are far away from the mine leases and effect on water quality of the river is not expected as no water is allowed to flow directly from the mine site.                      Mining operation will be carried out in limited scale on a small area above groundwater level. The mineral formation does not contain any harmful elements; hence no contamination will take place into ground water.</p>	<p>Mining is proposed to plan above the ground water table.                      Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system.                      For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.                      Movement of heavy vehicles may be restricted to lease area and road so that leaking oil &amp; grease may not contaminate water quality.</p>

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<p><b>Noise Level</b></p>	<p>Noise will be created by the movement of the tractors/dumpers/heavy machines etc. However, noise generated by these will be occurring at the very low level and ambient noise level in the buffer zone shall be within permissible limit of CPCB.</p>	<p>Diesel powered machineries, which is major source of noise in open cast mining shall be properly maintained. Attention shall be paid towards rigorous maintenance of the silencer of the diesel engines. Protective devices shall be provided for use of persons employed in the vicinity of high noise areas. With the adoption of controlled blasting techniques, the ground vibrations will be minimized. Plantation around the lease boundary will cut the noise levels.</p>
<p><b>Land Environment</b></p>	<p>Mining operation will be carried out in limited scale on a small barren area. Very little amount of soil is present in small patches. Soil within the leasehold area will be used for plantation purpose. Mining Activities are likely to impact on soil quality as: Loss of topsoil Productivity of Soil Contamination of oil or chemical in Soil</p>	<p>The mining activities will be restricted within the lease area only. The waste material will be utilized for the construction of road and also will be used by the local people for construction work. Retaining wall and garland drains for the proposed waste dump will be constructed to arrest wash offs from the dump. Maintenance/repair of vehicles and machineries will not be inside the mining area. However, steel trays will be used for any emergency repair and sudden leakage of oil. Topsoil's are to be removed &amp; stored in an identified area. In order to conserve the quality of topsoil, grass cover is to be developed on topsoil dumps, Such conserved topsoil may be used for land reclamation &amp; development of greenbelt</p>



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<p>Biological Environment</p>	<p>All the leasehold area is barren. Hence, impact on biological environment in not expected. Mining Activities are likely to Impact on Bio-Diversity of the region as; Habitat Destruction Ecosystem Disruption Damaging</p>	<p>Movement of heavy mining machineries on agriculture land and productive land should be restricted. Movement of heavy vehicles may be restricted to lease area and road so that leaking oil &amp; grease may not contaminate soil quality.</p>
		<p>Extensive plantation comprising of pollutant resistant trees will be undertaken, which will serve not only as pollution sink but also as a noise barrier. The impact on the fauna due to the mining activity will be insignificant. The progressive plantation over a period of time will reduce the impact, if any, on the fauna. Considering importance of impact of environmental impact on eco-system in the study area, a series of mitigation measures are incorporated in planning of stone mine &amp; its operation such mitigation measures are given below; Mine sites are selected considering siting criteria prescribed by Government (JSEIAA/JSPCB/MOEF &amp; CC). Avoid site which have tree cover. Avoid site through which drainage channels passes through. Ecological Assessment: Conduct a thorough ecological survey to identify species and habitats present. Buffer Zones: Establish buffer zones around sensitive habitats to minimize disturbance.</p>



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		<p>Minimize Habitat Destruction: Plan site layout to avoid key habitats and minimize vegetation clearing.</p> <p>Translocation: Consider translocating significant flora and fauna to safe areas.</p> <p>Restoration Plans: Develop a habitat restoration plan for post-mining activities.</p> <p>Wildlife Corridors: Ensure wildlife corridors are maintained to facilitate animal movement. If a wildlife corridor passes through or around a mining lease area, a Wildlife Conservation Plan will be prepared. These measures help protect biodiversity and mitigate the environmental impact of stone mining.</p> <p>The impact on flora and fauna of forests in vicinity of the mining are should be prepared and implemented by the lessee at project cost in consultation with the concerned Divisional Forest Officers</p>
<p>Socio-economic Environment</p>	<p>There is no habitat in the lease hold area as well as within 500 m from lease boundary. There will be no adverse impact of mining.</p>	<p>The pit pond after mine closure shall be used for agricultural purpose, growing of fish, drinking water for animal and other domestic uses.</p> <p>Applicant will provide the occupational health and safety by providing regular medical check-up and medicine distribution. Mining operation will improve the financial status of the local people.</p>
<p>Impact on Agriculture</p>	<p>Some form of agricultural use may be possible in sites that are adjacent to farmland provided the soil and topography are favorable. Agricultural and horticultural crops can be grown in a variety of materials.</p>	<p>Agricultural and horticultural crops will be grown in a variety of materials.</p> <p>The range of possibilities include arable cropping, grazing in either productive low land or over upland pasture.</p>





## **23 RECLAMATION OF MINED-OUT AREA**

### **23.1 Reclamation of Mined out area (best practice already implemented in the district, requirement as per rules and regulation, proposed reclamation plan);**

#### **23.1.1 Reclamation of mined-out area**

##### **23.1.1.1 Importance**

It is necessary to reclaim the land affected by mining due to following reasons:

- To put the land into productive use like agriculture, forestry or recreational purposes.
- To check soil erosion from dump leading to destruction of watersheds and siltation of river.
- Accumulation of huge quantity of water in worked out pits may pose threat to life and property.
- To combat adverse visual impact.

This requires two stages planning i.e. pre mining planning and post mining land use and monitoring. First stage considers all necessary measures to be taken for making second stage effective. This requires Environmental Impact Assessment (EIA) to be prepared. This should clearly bring out the likely impact of mining on environment, both biotic and a biotic and the likely extent of degradation, which may occur to the environment in the absence of any abatement measures. And to prepare this statement baseline information are required which includes geology/geomorphology, climate, hydrology/hydrogeology, hydro geochemistry and soil. Generation of information may also be required on quality of water, air and noise level, topography, land use pattern, demography of the area etc.

##### **23.1.1.2 Components**

For successful reclamation following points are to be considered

- Listing inventory of pre mining condition.
- Monitoring flexibility of mining programme in the light of efficient land reclamation.
- Evaluation of the post mining requirements of the region and to decide on the needs and desire of the affected ground.
- To make reclamation planning suitable to techno-economical and socio-political environment.



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- To assess the physio-chemical characteristics of overburden.
- Extra cost of preservation, re-handling, spreading and levelling of subsoil and topsoil.
- Knowledge of hydrogeological/geomorphological conditions. Aesthetic and/or historic value of land.



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**24 RISK ASSESSMENT & DISASTER MANAGEMENT PLAN**

No possibility to flooding the area. Since, the pits are developed on the hard compact and medium grain rocks hence, there are no possibilities of slope failure. The Risk Assessment & Risk Management Plan will be prepared for safety of man & machinery deployed in the mining activities as per Mining Act, Rules, and Regulations & DGMS circulars.

**RISK ASSESSMENT**

*Table 24-1:- Risk Assessment Chart (Qualitative Method)*

<b>Risk Rank (Likelihood x Consequence)</b>	<b>L5 (Very Unlikely)</b>	<b>L4 (Remote)</b>	<b>L3 (Occasional)</b>	<b>L2 (Probable)</b>	<b>L1 (Frequent)</b>
<b>C1 (Catastrophic)</b>	5	4	3	2	1
<b>C2 (Major)</b>	10	8	6	4	2
<b>C3 (Moderate)</b>	15	12	9	6	3
<b>C4 (Minor)</b>	20	16	12	8	4
<b>C5 (Insignificant)</b>	25	20	15	10	5

*Table 24-2:- Hazard identification & Risk Analysis in Stone Mining operation*

<b>S.No.</b>	<b>Activity</b>	<b>Hazard</b>	<b>Probability</b>	<b>Severity</b>
1	Temporary Storage of Explosives	Unintended Explosion	Very Unlikely	Catastrophic
2	Charging of Explosives	Unwanted Explosion	Very Unlikely	Catastrophic



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3	Blasting	Hit by fly rock (Bodily Injury)	Occasional	Major
4	Drilling	Exposure to Dust	Frequent	Insignificant
5	Bench Formation	Fall/Slide/Tripping (Bodily Injury)	Probable	Moderate
6	Loading/Unloading	Bodily injury by hitting by loading material, Exposure to Dust	Very Unlikely	Minor
7	Transportation	Vehicle Accident, Exposure to Dust	Remote	Minor

**Natural Risk**

S.No.	Particular	Description	Probability
1	Earthquake	As district fall in Zone III which is low risk zone.	Very Unlikely
2	Flood	All identified potential areas are away from river. Proper arrangement for dewatering of quarry during the monsoon period.	Very Unlikely

**Risk & its Preventive Measures:**

Sl. No.	Hazards	Preventive Measures
1	<b>Face Stability</b> Face instability gives rise to rock falls or slides. Face instability can arise because of adverse geological faulting or poor work methods. Those at greatest risk will be workers engaged in loading material and driving vehicles	<ul style="list-style-type: none"> <li>Overall slope angles of benches will be maintained at 45°</li> <li>Unmanageable heights are not created</li> <li>Loose sides are properly dressed</li> <li>No tree, loose stone or debris will be permitted to remain within 3 meters of the edge or side of any excavation (Regulation 106(4) of MMR 1961)</li> <li>No undercutting of any face or sides will be permitted so as to cause any overhanging (Regulation 106(5) of MMR 1961)</li> </ul>
2	<b>Drilling Operations</b>	
2.1	<b>Falls from the edge of a bench</b> While the primary hazard is that of the driller falling over the edge of a	<ul style="list-style-type: none"> <li>It will be ensured that the drilling equipment is suitable for the job.</li> </ul>



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	<p>working or abandoned bench, the risk of minerals or materials falling onto workers at the foot of the face should not be overlooked. A face and bench are a necessary part of a working quarry and therefore it is not possible to remove the hazards associated with them.</p> <p>While others may need to work at or near the edge of a working bench the person most at risk during the drilling operation is the driller. Others such as the manager of the mine or maintenance personnel, may approach the bench edge during the drilling operation in the event of a breakdown of the drilling equipment.</p>	<ul style="list-style-type: none"> <li>• The person in charge of the drilling machine is competent to carry out the drilling operation; part of the training includes instructions to always face towards the open edge of the bench so that any inadvertent backward step is away from the edge.</li> <li>• Provision of portable rail fencing between the drilling operations and the edge of the bench</li> <li>• Provision to attach a safety line to the drilling rig and provide a harness for the driller to wear.</li> <li>• Restricted access to the area to all persons except those necessary for the drilling operation.</li> </ul>
<p><b>2.2</b></p>	<p><b>Dust generation during drilling</b> The hazard is the inhalation of dust which is created during the drilling operation.</p>	<ul style="list-style-type: none"> <li>• Wet drilling will be carried out by constantly injecting a jet of water at the drill bit inside the hole, which prevents dust generation</li> <li>• In case due to any reason, wet drilling is not possible (due to non-availability of water), exhaust/vacuum system will be provided which removes the dust from the drill hole continuously and discharges the same in a dust collector specially provided for the purpose.</li> <li>• Drilling machine shall be fitted with dust suppression, collection and disposal arrangement</li> <li>• Deep wetting of drilling zones will be done by water sprinkling before starting drilling.</li> </ul>
<p><b>2.3</b></p>	<p><b>Noise Generation during drilling</b> Drilling operations give rise to harmful levels of noise. It is created by both drilling the hole and the operation of the drill rig itself. The noise levels around drilling equipment will be continuously measured and the risk will be assessed. Unless control measures are in place no-one, except those necessary for the work in hand, will be allowed inside the designated</p>	<p>Training operators and providing them with ear protection, although the latter should only be seen as an interim precaution until a permanent solution can be found.</p>





	noisy area. In most cases this will be the drill operator.	
3.0	<p><b>Blasting Operations</b> Most of the accidents from blasting occur due to the projectiles and mainly due to overcharging of the shot holes as a result of certain special features of the local ground. Flying rocks are encountered during initial and final blasting operations. Noise and dust also generated during blasting.</p>	<ul style="list-style-type: none"> <li>• Blast hole geometry shall be properly designed.</li> <li>• Blast site shall be wetted before and after blasting operations are completed.</li> <li>• Only optimum quantity of permissible explosives shall be used so that the vibrations do not damage the structures/houses if the quarrying operations are close to human habitation.</li> <li>• Blasting shall be conducted only during favorable weather conditions and only during the day time and permissible hours.</li> <li>• While carrying out blasting operations near habitations, wide publicity will be given in the local area through announcement and other available media so that local people become aware of the blasting activities being undertaken in the area and take appropriate precautions.</li> <li>• The vibrations should be monitored periodically in consultation with the local Mining authorities.</li> </ul>
4.0	<p><b>Health Hazards</b> Health hazards should be interpreted as being harmful dust and noise which is emitted during surface mining operations.</p>	<ul style="list-style-type: none"> <li>• All suitable steps and precautions will be undertaken to ensure minimum health hazard. Provision of use of Personal Protective Equipment (PPE) will be kept.</li> </ul>
5.0	<p><b>Accident at Site</b> Identifying the hazards that come along with the presence of vehicles at the workplace (e.g. reversing operations, loading) can cause harm if not properly handled. Among some of the factors that may make vehicle accidents more likely are:</p> <ul style="list-style-type: none"> <li>• Rough access roads</li> <li>• Time pressure</li> <li>• Inadequate brakes (Possibly from lack of maintenance)</li> </ul>	<ul style="list-style-type: none"> <li>• To avoid such instances, it will be ensured that workers shall be trained and involved in the risk management process and tell them to share their experience regarding what to do, to reduce risk.</li> </ul>



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	<ul style="list-style-type: none"> <li>Carelessly parked vehicles (e.g., being parked on a slope without being adequately secured)</li> <li>Untrained drivers Overturning vehicles</li> </ul>	
<b>6.0</b>	<p><b>Transportation</b> The usual method of transporting minerals from the working face is by trucks / tippers/dumpers. Large earth moving equipment's are used for loading /transporting large quantity of mineral from a mine. During transportation of minerals in the mining area, utmost care will be taken by the vehicle operator to avoid any accident with any incoming vehicle by keeping sufficient gap between the two vehicles, keep safe distance from the edge of the mine face, avoid any accident to a worker crossing the haul road and shall maintain low speed. The vehicle operator shall not try to overtake another vehicle.</p>	<ul style="list-style-type: none"> <li>Mine road shall be made smooth regularly with a road roller.</li> <li>Mine road will be cleaned daily to remove fallen rock/stones for smooth transportation.</li> <li>Mine road will be made sufficiently wide to keep two-way traffic.</li> <li>Mine roads will be designed as per the specifications given under MMR 1961.</li> <li>Regular water sprinkling will be done on mine road and haul road to avoid suspension of dust.</li> <li>All transportation within the mine lease area should be carried out directly under the supervision and control of management.</li> <li>The vehicles will be maintained in good working condition and checked thoroughly at least once a month by the competent person authorized for the purpose by the management.</li> <li>Navigation signs will be provided at each and every turning point up to the main road (wherever required)</li> <li>To avoid danger while reversing the vehicles especially at working place/loading points, stopper should be posted to properly guide reversing/spotting operating.</li> <li>Only trained drivers will be hired</li> </ul>

**Natural Risk Assessment and Its preventive measure.**

Sl.No.	Particular	Risk	Preventive Measures
1.	Natural	<b>Flood</b> Flooding of opencast working due due to heavy rains ingress of water from nearby water body i.e. river, reservoir etc.	The drainage plan (Dewatering scheme) of the mine has to be prepared considering the maximum rainfall in the area corresponding to maximum quantity of water accumulated in quarry, sufficient capacity of pump needs to be



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			prodded for preventing flooding of quarry.
2	<b>Natural</b>	<b>Earthquake</b> Earthquake in the area may cause damage to life & property.	If the mine is in zone iii & above of impact of earthquake must be integrated with planning & design of the project.
3.	<b>Natural</b>	<b>Land slide</b> There might be Land slide in external dump or high wall of opencast mine	To prevent land slide in the mine following measures, need to be taken care nature of rock corresponding to <ul style="list-style-type: none"> <li>• Proper slope to be provided to advancing bench of the mine</li> <li>• Proper slope (45° - 50°) to be provided for terminal slope to the quarry</li> <li>• External dump has to be properly planned with proper side slope to</li> <li>• prevent slope failure.</li> <li>• External dump should be located on a stable ground with load bearing</li> <li>• capacity to support load of external dump.</li> <li>• External dump should be proper drainage plan to prevent building up of internal hydraulic pressure.</li> </ul>
4.	<b>Electrical</b>	Project operation requires operation of electrical equipment. They are operated on high voltage & use cables. Use of electrical equipment may cause fire or electrocution	Electrical system needs to be designed following relevant prevailing rules as per Act. Regular maintenance and upkeep of cables, switches etc.
5.	<b>Fire</b>	Operation of mine requires use of electrical power & diesel oil. Use of electrical power & oil may cause Fire.	<ul style="list-style-type: none"> <li>• Safe storage of diesel.</li> <li>• No Smoking Zone.</li> <li>• Maintenance of electrical wires</li> <li>• The electrical cables with PVC sheath to prevent overheating and fire.</li> <li>• The cables should have wire with appropriate size of core to carry required current.</li> <li>• Provision for fire alarm and arrangement for firefighting appliances.</li> </ul>

A disaster management plan should be prepared for taking care of for any disaster. Other risk which are included in this category are noise, as it occurs and it can lead to permanent disability. There are problems related to road traffic in and out issuers; inappropriate exposure of moving



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machines; mechanical failure and because of large number of moving trucks and dumpers there is large quantity of dust present in roadways which affects the operators and can lead to accidents causing injury. They are in acceptable range because of precautions measures taken but no step is taken it can cause hazard. Hence, the steps should be taken to reduce the hazards such as for dust suppression system should be installed.

Disaster in the mines like fires, explosions, entrapments, and inundations can occur any time, so emergency preparedness is a must. The Disaster Management Plan and risk assessment in the mines will include all sorts of above-mentioned emergency and the extent that this plan will be implemented will depend on the nature and scope of the emergency. The basic purpose of Disaster management plan and risk assessment to ensure that mine rescue and recovery activities are conducted safely for rescuer and survivors. According to MMR 1961 a standard operating procedure should be drawn for involvement different category of staff and officers. The SOP should be updated periodically to reduce the chaos and response to the emergency should be quick and smooth.

The responsible person should be familiar with his responsibility during the mock drills. One or two standbys should be there to replace the person in Emergency situation.

Rescue operations should not include the survivors for any assistance.

First Information of Disaster/Emergency should go to the attendance clerk on duty.

Duties of attendance Clerk (Emergency Siren) the attendance clerk or other designated person should on getting information of major accident, sound a hotter or a siren immediately declaring a state of emergency at the mine and then to contact the manager and on his advice to call key personnel using the information listed in the Emergency Organization Chart.

It is important that all telephone calls are recorded in a telephone log book. Duties of Other Officials should be displayed and handed over to all concerned.

Copy the same should be kept at Manager's Office for ready reference.

Establishment of Control Room at Unit Level, Area Level and Company Level is essential. Control Room should keep the contact information about –

- Company Manager
- Company Owner/Administrative Officer



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**District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



- District Administration
- Govt. Hospitals in nearby localities
- Private Nursing Homes of localities



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## **25 DETAILS OF THE OCCUPATIONAL HEALTH ISSUES IN THE DISTRICT**

### **25.1 Details of the Occupational Health issues in the district. (Last five-year data of number of patients of Silicosis & Tuberculosis is also needs to be submitted**

#### **25.1.1 Occupational Health Hazard and Remedial Measures**

The persons employed in the mines are exposed to a number of hazards at work which adversely affect their health. Some of the important ones are dust, noise, heat, humidity, vibration etc. In recent times, there has been increasing awareness among mining industry and the workers about occupational diseases such as Coal Worker's Pneumoconiosis, Silicosis, Manganese Poisoning, Hearing Impairment etc. caused by exposure to health hazards at work. Almost all occupational diseases are known to cause permanent disablement and there is no effective treatment. However, most of the occupational diseases can be prevented by adopting proper occupational health measures and engineering control on airborne dust at workplace. Following diseases have been notified as the diseases connected with mining operations for the purpose of sub-section (1) of Section 25 of the Mines Act, 1952:

S.R.O. 1306 dated the 21<sup>st</sup> July, 1952

1. Silicosis
2. Pneumoconiosis

S.R. O. 2521 dated the 26th June, 1986

Cancer of lung or the stomach or the pleura and peritoneum (i.e., mesothelioma)

S.O. 399(E) dated 21<sup>st</sup> February, 2011

1. Noise Induced Hearing Loss.
2. Contact Dermatitis caused by direct contact with chemical.
3. Pathological manifestations due to radium or radioactive substances.

#### **25.1.2 System of Detection of Occupational Diseases in Mines**

In order to detect occupational diseases, the industry is required to conduct medical examinations and health surveillance of workers as per the provisions of Mines Act. The present efforts of mines management are concentrated on detection of silicosis, Pneumoconiosis and other notified diseases. Very little attention is paid to other occupational



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diseases. The essential features of health surveillance programme required to be carried out in mines are:

- (a) Initial Medical Examination of persons to be employed in mines.
- (b) Periodic Medical Examination once every five years. General physical examination, chest radiographs, lung function tests and audiometric.
- (c) Classification of chest radiographs of workers as per ILO Classification.
- (d) Medical examination within one year of superannuation.
- (e) Evaluation of all cases of suspected pneumoconiosis by Pneumoconiosis Medical Board.
- (f) Maintenance of medical records till the person is in service and 10 years thereafter. The cases of silicosis detected during health surveillance programme are referred to Pneumoconiosis Medical Board of the mining companies for evaluation and certification. If certified, the case is notified to the enforcement authority and evaluated for disability and payment of compensation. Many cases of silicosis and other pneumoconiosis go undetected and a large number of cases of silicosis are misdiagnosed due to lack of training of medical professionals.

As per Letter No- 208, dated-13.09.2024, following table shows the No. of patient of Silicosis and Tuberculosis in Hazaribagh district for past 5 years (2019- 2024 Till Aug).

Table 25-1:- No. of patient of Silicosis and Tuberculosis in Hazaribagh district

Year	No. of patient of Silicosis	No. of patient of Tuberculosis
2019	0	2406
2020	0	1541
2021	0	1585
2022	0	2060
2023	0	2175
2024 Till Aug	0	1620

(Source:- Civil Surgeon, Hazaribagh)



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## **26 PLANTATION AND GREEN BELT DEVELOPMENT**

### **26.1 Plantation and Green Belt Development in respect of leases already granted in the district**

Green belt along lease boundary and both sides of transportation road shall be developed in almost all the existing leases in the district. Maximum numbers of plants shall be planted in each year around the lease boundary and both sides of transportation road as mentioned in mining plan. Some mine owner also planted a large number of plants outside the lease area to develop green belt in the district.

The goal and strategy of greenbelt development can be justified if we able to generate a good habitat for the local flora and faunal species and it can be ensured if the strategy for site protection is well framed.

Greenbelt plantation at the project site have been started and will be done four consecutive years from the beginning. If need arises then the saplings will be protected with tree guards. Together with the trees greenbelt plantation will include shrubs, herbs and some grass species also. Greenbelt will help in reducing the spread of fugitive dust and noise from the plant area and transportation roads.

#### **27.1.1: Need for Greenbelt Development Plan**

The greenbelt within the project boundary and outside the project boundary will reduce migration of fugitive dust particle form source point. Greenbelt also reduce the noise/ sound frequency. Roots of the trees/ shrubs/ herbs etc. provide strength to surface soil (soil binding) and reduces soil erosion.

#### **27.1.2: Criteria for plants/trees species selection for Greenbelt development:**

1. Having tolerance to dust pollution.
2. Should maintain leaves for as longer a time as possible.
3. Combination of plants should be such so that almost a screen of plants is formed to check the dust from escaping the area. Thus, the green belt plants will consist of mainly the trees and shrubs with some herbs also.
4. The trees should provide shade.
5. Plants possessing economic or aesthetic value should be given preference.





6. Trees less affected due to pruning should be given preference because pruning will yield fuel wood.
7. Every plant species to be planted should have some basis for its selection to be planted in the greenbelt.
8. Only local species (grasses, herbs, shrubs and trees) will be taken for plantation.

**27.1.3: Plantation at greenbelt development site/ Peripheral Plantation**

To develop a healthy ecosystem with various local and native floral species, plantations will be done in mining areas. Plantation planning will be done as per guidelines laid out by MOEF&CC and CPCB. The natural vegetation, such as trees, shrubs, herbs, grasses, etc., will also be conserved. This will help increase the aesthetic effect of the environment. Greenbelt along the lease boundary and both sides of the transportation road shall be developed in almost all the existing leases in the district. Maximum numbers of plants shall be planted each year around the lease boundary and both sides of the transportation road, as mentioned in the mining plan. Some mine owners also planted a large number of plants outside the lease area to develop a greenbelt in the Hazaribagh district.

Neem, Sheesham, Aam, Sal, Arjun, Teak, Mahua, Ashoka, Jamun, Pipal, Banyan etc. are some important plants commonly planted in mine site of Hazaribagh district. It is proposed to have a detailed record of plantations to be kept by the respective mine owner/agent or manager every year, which that has been planted in the safety zone area and transportation route, which is statutorily requirement. As per the norms of the forest department, the plantation has to be carried out at a rate of **1600 trees/Ha** at an interval of 2 meters in a zig-zag manner in both sides. Here, we suggested a details plantation plan for the mining areas in the Hazaribagh district.

The plantation will also be done on the land available for reclamation and OB dump after closing the mining operation. List of species selected for plantation at different locations for various purposes is given in Table.

**List of plants for greenbelt development / Plantation**

Sl. No.	Latin Name	Local Name	Family
1.	<i>Adina cordifolia</i>	Karam	Rubiaceae
2.	<i>Albizia odoratissima</i>	Jang Siris	Fabaceae
3.	<i>Artocarpus integrifolia</i>	Kathal	Moraceae
4.	<i>Azadirachta indica</i>	Neem	Meliaceae
5.	<i>Bauhinia variegata</i>	Kachnar	Fabaceae
6.	<i>Cassia fistula</i>	Dhanraj/Amaltas	Fabaceae





7.	<i>Dalbergia sissoo</i>	Shisham	Fabaceae
8.	<i>Diospyros melanoxylon</i>	Tendu /Kend /Tiril	Ebenaceae
9.	<i>Eugenia heyneana</i>	Katjamun	Myrtaceae
10.	<i>Eugenia jambolana</i>	Jamun	Myrtaceae
11.	<i>Ficus religiosa</i>	Sacred fig/Peepal	Moraceae
12.	<i>Gmelina arborea</i>	Gamhar	Rubiaceae
13.	<i>Mangifera indica</i>	Mango	Anacardiaceae
14.	<i>Shorea robusta</i>	Sal/Sakhua	Dipterocarpaceae
15.	<i>Terminalia arjuna</i>	Arjun	Combretaceae
16.	<i>Ziziphus mauritiana</i>	Ber	Rhamnaceae

**Note: Any other species can be considered for plantation if found suitable for greenbelt development**

**27.1.4: Criteria for the selection of various vegetation for the development of a healthy and productive eco-system in the mining areas:**

- (i) Multiple use local species that yield forest products to support livelihoods of the communities;
- (ii) Reasonably fast growth with dense spreading canopies which rapidly shade out weeds;
- (iii) Ease of collection and storage of seeds;
- (iv) A reasonable success in direct seeding;
- (v) Attraction to wildlife (such as fruit and nectar or perching and nesting sites), because birds attracted by such species disperse seeds of other species into the restoration sites;
- (vi) Leguminous species, because they enhance soil microbial biomass and mineralization and promote growth of other saplings growing in their vicinity.

**27.1.5: Criteria for selection of plant species for Plantation**

The following characteristics have been taken into consideration while selecting plant species for greenbelt development and tree plantation.

1. Having tolerance to dust pollution.
2. Should maintain leaves for as longer a time as possible.
3. Combination of plants should be such so that almost a screen of plants is formed to check the dust  
from escaping the area. Thus the greenbelt plants will consist of mainly the trees and shrubs.
4. The trees should provide shade.
5. Plants possessing economic and/or aesthetic value should be given preference.



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6. Every plant species to be planted in the greenbelt should have some basis for its selection.  
8. Only local /native species will be selected for plantation.

**27.1.6: Post Plantation Management**

Watering will be done immediately after plantation. Further watering will depend on the rain while during dry seasons watering will be regularly done at least twice a week. Saplings will be regularly monitored and remedial actions will be undertaken as required. Casualties (if any) will be replaced at the beginning of each monsoon.

Status of plantation & Greenbelt Development in respect of lease already granted in the district

*Table 26-1:- current status of plantation*

Sl. No.	Stone mines	Area of plantation as per plan (Ha.)	Total Plantation	No of plantation at site	Difference
1	M/S Ganpati Stone Enterprises	0.65	1290	250	1040
2	M/S Laborious Construction Pvt. Ltd.	0.65	1625	56	1569
3	M/S Murumatu Stone Mines	0.253	634	30	604
4	M/S Ramcon Infrastructures Pvt. Ltd.	0.277	443	88	355
5	M/S Golden Stone harvest Pvt. Ltd.	0.45	720	30	690
6	M/S J.C Stone Works	0.455	500	40	460
7	M/S Saroj Stone	0.385	965	40	925
8	M/S Maa Saraswati Stone Chips Works	0.387	200	30	170
9	M/S Ganesh Stone Works	0.314	500	30	470
10	M/S Jai Hanuman Stone Works	0.368	1190	40	1150
11	Shri Chandradhari Prasad	0.2	200	150	50
12	M/S Vikas Minerals	0.72	100	40	60
13	Shri Nageshwar Rana and others	0.448	672	100	572
14	M/S Jai Shree Ram Stone Mines	0.32	800	50	750
15	M/S Shree Shantinath Minerals	0.498	1200	150	1050
16	M/S Maa Jagdamba Stone Works	0.51	1020	450	570
17	M/S Jamnijara Stone Mines	0.57	1425	50	1375
18	M/S Kushumbhha Stone Deposit	0.401	1003	37	966
19	M/S Bhole Shankar Stone Works	0.203	438	50	388

The Deputy Commissioner through District Mining Officer will ensure that the respective mines owner of the respective leases shall complete the plantation within six months from the date of approval of District Survey Report.



*RS*



**27 ADDITIONAL INFORMATION**

SL.NO	Identified Potential Stone Deposit Details
1	Mauza - Karma, P.S: - Chauparan, Circle: - Chauparan, Khata No.- 10 and 04 Plot No. 815 (P), 818 (P) and 821 (P) Area: - 3.00 acre /1.21 ha
2	Mauza - Karma, P.S: - Chauparan,, Circle: - Chauparan, Khata No.- 27, 29, 36 and 28 Plot No. 427 (P), 432, 434, 435, 436, 437, 439, 440, 441, 442, 443, 444, 445, 449 and 452 (P) Area: - 6.69 acre /2.71 ha
3	Mauza - Karma, P.S :- Chauparan,, Circle :- Chauparan, Khata No.- 24, 09, 06 and 03 Plot No. 762 (P), 758 (P), 757 (P) and 732 (P) Area :- 3.10 acre /1.26 ha
4	Mauza - Karma, P.S :- Chauparan,, Circle :- Chauparan, Khata No.- 28, & 14, Plot No. 769 (P), 770 Area :- 2.69 acre /1.09 ha
5	Mauza - Karma, P.S :- Chauparan,, Circle :- Chauparan, Khata No.- 22 and 34, Plot No. 760 and 761 (P) Area :- 2.72 acre /1.10 ha
6	Mauza - Bhatbigha, P.S :- Chauparan,, Circle :- Chauparan, Khata No.- 40, 12, 62, 06, 33, 01 and 56 Plot No. 619, 620, 618(P), 601 (P), 603, 602, 604, 612, 614, 632, 611, 613, 616, 607, 617(P), 609 (P), 605 (P), 608, 610 and 615 Area :- 2.88 acre /1.17 ha
7	Mauza - Bhatbigha, P.S :- Chauparan,, Circle :- Chauparan, Khata No.- 56, 49, 64, 46, 25, 19, 32, 26, 60, 44, 29 and 57 Plot No. 631, 627, 628, 624, 625, 683, 680, 681, 659, 682, 694 (P), 673, 658, 629, 633, 660, 630, 657, 684 and 685 Area :- 2.65 acre /1.07 ha
8	Mauza - Bhatbigha, P.S :- Chauparan,, Circle :- Chauparan, Khata No.- 06, 23, 48 and 62, Plot No. 1141, 1098, 1101, 1105, 1107, 1099,1140 (P) 1151, 1152, 1153, 1154, 1155, 1156, 1157 (P), 1158 (P) and 1160, Area :- 1.76 acre /0.71 ha



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9	Mauza - Bhatbigha, P.S :- Chauparan, Circle :- Chauparan, Khata No.- 06, 15, 59, 19, 64, 62, 35, 01 and 23 Plot No. 557, 558, 559, 560, 561, 562, 563, 564, 565, 567 (P) 589, 590 and 591, Area :- <b>2.20 acre /0.89 ha</b>
10	Mauza - Dhabsaloniya, P.S :- Chauparan, Circle :- Chauparan, Khata No.- 09, Plot No. 150 (P), Area :- <b>1.48 acre /0.60 ha</b>
11	Mauza - Konharakalan, P.S :- Barkatha, Circle :- Barkatha Khata No.- 26, 46, 40, 15, 10, 53, 18, 39, 11, 37, 19, 16, 63 and 47, Plot No. 489 (P), 495, 496 (P), 497 (P), 498, 499, 509 (P), 510 (P), 500, 501 (P), 502 (P), 503, 504 (P), 505 (P), 506 (P), 507 (P) 508 and 515 (P) Area :- <b>4.24 acre /1.73 ha</b>
12	Mauza – Barkangango, P.S :- Barkatha, Circle :- Barkatha Khata No.- 61, 44, 37, 73 (P) and 108 Plot No. 3136 (P), 3162 (P), 3183 (P), 3185 (P), 3181 (P), 3165, 3182 (P), 3167 (P) and 3184 Area :- <b>4.33 acre /1.75 ha</b>
13	Mauza - Dhobari, P.S :- Barkatha, Circle :- Barkatha Khata No.- 03, 05, 13, 14, 24 and 64 Plot No. 853, 854, 855, 856, 857, 858, 862 (P), 966 (P), 967 (P), 879 (P), 968, 969 (P), 956, 957 (P), 958 (P), 964 (P), 965 (P), 970, 971, 972, 973, 848, 851, 852, 846, 847, 849 and 850 Area :- <b>6.60 acre /2.67 ha</b>
14	Mauza – Shiladih, P.S :-Barkatha, Circle :- Barkatha Khata No.- 44, 50, 54 and 59, Plot No. 37 (P), 41, 48 (P), 39, 43 (P) and 42 Area :- <b>6.98 acre /2.82 ha</b>
15	Mauza - Pasaria, P.S :-Chalkusha, Circle :- Chalkusha Khata No.- 17, Plot No. 132, Area :- <b>3.00 acre /1.21 ha</b>
16	Mauza - Aaswa, P.S :- Barkagaon, Circle :- Barkagaon, Khata No.- 33, Plot No. 313, 314, 319 and 320 Area :- <b>2.89 acre /1.17 ha</b>
17	Mauza - Jugra, P.S :- Barkagaon, Circle :- Barkagaon Khata No.- 113, Plot No. 55, 56, 57, 58 and 59 Area :- <b>5.70 acre /2.30 ha</b>
18	Mauza - Murumatu, P.S :- Tatijharia, Circle :- Tatijharia, Khata No.- 46, 90, 11 and 12 Plot No. 1507, 1509, 1510, 1511, 1512, 1513, 1583, 1584, 1585, 1490, 1491 and 1492, Area :- <b>4.51 acre /1.83 ha</b>
19	Mauza - Tati, P.S :- Tatijharia, Circle :- Tatijharia, Khata No.- 07, 17, 06 and 03 Plot No. 164, 165, 166 (P), 168 and 160 (P) Area :- <b>5.20 acre /2.11 ha</b>



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**District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.**



20	Mauza - Jharia, P.S :- Tatijharia, Circle :- Tatijharia, Khata No.- 08 and 10, Plot No. 1677 and 1681 <b>Area :- 1.71 acre /0.69 ha</b>
21	Mauza - Holang, P.S :- Tatijharia, Circle :- Tatijharia, Khata No.- 139, 94, 71 and 117 Plot No. 986, 990, 992 (P), 993 and 995 <b>Area :- 3.26 acre /1.32 ha</b>
22	Mauza – Tepsa, P.S :- Ichak, Circle :- Ichak Khata No.- 21 and 27, Plot No. 87, 92 (P) and 100 <b>Area :- 1.76 acre /0.71 ha</b>
23	Mauza – Bhelwara, P.S :- Vishnugarh, Circle :- Vishnugarh, Khata No.- 68,75 and 58, Plot No. 290 (P), 292 (P), 293, 296 and 297 (P) <b>Area :- 4.04 acre /1.63 ha</b>
24	Mauza – Lati, P.S :-Padma O.P. +, Circle :- Padma Khata No.- 34, 27, 11, 14, 31, 24, 21, 18 and 02, Plot No. 681, 682, 683, 686, 690, 695 to 729, 731 to 775, 779 and 813, <b>Area :- 9.75 acre /3.95 ha</b>
25	Mauza - Pundari, P.S :- Korrah, Circle :- Sadar Khata No.- 63, Plot No. 159, <b>Area :- 6.00 acre /2.43 ha</b>
26	Mauza - Pundari, P.S :- Korrah, Circle :- Sadar Khata No.- 63, Plot No. 166, <b>Area :- 5.00 acre /2.04 ha</b>
27	Mauza – Churchu, P.S :- Korrah, Circle :- Sadar Khata No.- 149, Plot No. 10065, <b>Area :- 4.00 acre /1.62 ha</b>
28	Mauza - Churchu, P.S :- Korrah, Circle :- Sadar Khata No.- 149, Plot No. 10417, <b>Area :- 8.00 acre /3.24 ha</b>
29	Mauza - Churchu, P.S :- Korrah, Circle :- Sadar Thana no. 166, Thana No. 28, Khata No.- 149, Plot No. 9913,10065, 10385, <b>Area :- 8.00 acre /3.24 ha</b>
30	Mauza – Tarwa, P.S :- Muffasil, Circle :- Sadar Plot No. 39,37,34,30,27,20,309,310,311,312,313,314,40,41,42 & 43, <b>Area :- 10.00 acre /4.04 ha</b>
31	Mauza – Tarwa , P.S :- Muffasil, Circle :- Sadar Khata No. 38, Plot No. 02 <b>Area :- 15.00 acre /6.07 ha</b>
32	Mauza - Pundari, P.S :- Korrah, Circle :- Sadar Khata No.- 63 & 36, Plot No. 159,158 & 160 <b>Area :- 7.78 acre /3.15 ha</b>



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## District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.



33	Mauza – Tepsa, P.S :- Ichak, Thana no. 39, Dist. Hazaribagh Plot No. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15, 17,18,19,20,21,22,23,24,25,26,27,28,29,30, 31,32,33,34, 35,36,37,38,39,40,45,46,47,48,84,86 etc.
34	Mauza- Karma, P.S. - Chauparan, Thana no- 289, Khata No. – 05 & 27, Plot No.- 835(P) & 836(P), <b>Area :- 3.4164 acre /1.3825 ha</b>
35	Mauza- Dhab Saloniyan, P.S.- Chauparan, Thana No.- 181, Khata No.- 11,21 & 39, Plot No.- 133 & 136, <b>Area :- 2.21 acre /0.89 ha</b>
36	Mauza - Karma, P.S :- Chauparan, Circle :- Chauparan, Khata No.- 05 & 27, Plot No. 835 (P) & 836 (P) <b>Area :- 3.41 acre /1.39 ha</b>
37	Mauza - Dhab Saloniyan, P.S :- Chauparan, Circle :- Chauparan, Khata No.- 11, 21 & 39, Plot No. 133, 136 & 137 <b>Area :- 2.21 acre /0.90 ha</b>
38	Mauza – Pasariya, P.S :- Chalkusha, Circle :- Chalkusha Khata No.- 009, 22 & 17, Plot No. 130 (P), 131 (P) & 132 (P), <b>Area :- 3.85 acre /1.56 ha</b>
39	Mauza - Murumatu, P.S :- Tatijharia Circle :- Tatijharia Khata No.- 55, 10 and 21 Plot No. 1010 (P), 1012, 1014 (P), 1030, 1033 and 1034 <b>Area :- 2.12 acre /0.85 ha</b>
40	Mauza - Karma, P.S :- Chauparan, Circle :- Chauparan, Khata No.- 03, 06, 09, 24, 30 & 27, Plot No. 732 (P), 757 (P), 758 (P), 762 (P), 766 (P) & 767 (P) <b>Area :- 5.68 acre /2.29 ha</b>
41	Mauza - Devariya P.S :- Daru, Circle :- Daru Khata No.- 08, 06, 49, 17 & 41, Plot No. 1466 (P), 1529 (P), 1535, 1533 (P), 1465 & 1531 <b>Area :- 3.16 acre /1.28 ha</b>

Note: - Any other area which may be found feasible for stone mining shall be included in the DSR prospectively.

### POTENTIAL ZONE IN THE DISTRICT

Potential Resource Area for stone mining in the district have been identified and marked on a map.

This identification has been done on basis of:

1. Existence of closed mines
2. Existence of running mines
3. LOI have been issued by the District Mining Office
4. Applications have been filed by prospective proponents on raiyat land



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## District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Hazaribagh District, Jharkhand.



### 5. Area identified by district Geology Dept.

These resource areas have been surveyed and limiting coordinates have been determined. All such zones are listed in DSR.

These zones indicate areas where resource is available. However, while issuing LOI for mining, it must be ensured by the authority that mining area for which LOI is being issued must be complied to all statutory siting criteria prescribed by competent state/central Govt. agency.

### References:

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- Census of India 2011, Jharkhand
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- District Irrigation Plan – Hazaribagh, Govt. of Jharkhand
- District Disaster Management Plan-2016 Hazaribagh- District
- National Institute of Disaster Management Plan 2016, Hazaribagh District
- <http://www.jharkhandminerals.gov.in>
- <https://weatherandclimate.com/india/jharkhand/hazaribagh>
- JSMD site
- National Informatics Centre



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**Annexure-I**  
**List of Brick kiln**



10

**जिला खनन कार्यालय, हजारीबाग।**

**ईट सत्र - 2023-24**

क्र०	ईट भद्वेदार का नाम एवं पता	मार्का	मौजा
1	2	3	4
1	श्री भवानी प्रसाद दौंगी, पिता श्री सोमर महतो, ग्रा० - सोनपुरा, पो० - साँढ़, थाना - बड़कागाँव, जिला- हजारीबाग।	PBS	मौजा- महुदी, थाना - बड़कागाँव
2	श्री किशोरी यादव, पिता स्व० दहन गोप, ग्राम- गुंजा, पो० - ईचाक, जिला- हजारीबाग।	JBC	मौजा- पुन्दौल, थाना - बड़कागाँव
3	श्री रामजय कुमार महथा, पिता स्व० बोधराज महतो, ग्रा० - परतन, पो० - सुरजपुरा, थाना- पदमा ओ० पी०, जिला- हजारीबाग।	RMC	मौजा- परतन, थाना - पदमा ओ० पी०
4	श्री कामेश्वर प्रसाद मेहता, पिता निरु महतो, ग्रा० - नावाडीहकला, पो०- कुटीपीसी, थाना- पदमा ओ पी०, जिला- हजारीबाग।	SUPER	मौजा- नावाडीहकला, थाना - पदमा ओ० पी०
5	श्री नन्द किशोर महतो, पिता स्व० भोला महतो, ग्रा० - इन्दरा (कोटीकाटांड), पो०- जबरा, थाना- चरही, जिला- हजारीबाग।	RSC	मौजा- दासोखाप, थाना - चरही
6	श्री बिनय कुमार सिंह, पिता श्री रूपलाल सिंह, ग्रा० - नावागढ़, पो० - रामपुर, थाना- चौपारण, जिला - हजारीबाग।	VINAY	मौजा- नावागढ़ रामपुर थाना - चौपारण
7	श्री महेंद्र प्रजापति, पिता श्री भुगली प्रजापति, ग्रा० - दासोखाप, पो० - जरवा, थाना - चरही, जिला- हजारीबाग।	RSC	मौजा- दासोखाप (जोकी), थाना - चरही
8	श्री सुरेश प्रसाद, पिता श्री आनन्द राम, ग्रा०+पो०+थाना- विष्णुगढ़, जिला- हजारीबाग।	TATA	मौजा- कारीटाँड़, थाना - विष्णुगढ़
9	श्री सुरेश प्रसाद मेहता, पिता स्व० तिलक महतो, ग्रा०+पो०- सरैया, थाना - पदमा ओ० पी०, जिला- हजारीबाग।	JKC	मौजा- सरैया, थाना - पदमा ओ० पी०
10	श्री प्रमेश्वर प्रसाद मेहता, पिता स्व० मेघन महतो, ग्रा० - सुरजपुरा, थाना - पदमा, जिला- हजारीबाग।	UPS	मौजा- परतन, थाना - पदमा ओ० पी०
11	श्री गोविन्द प्रसाद मेहता, पिता स्व० दुलो महतो, ग्राम- गुंजा, पो०+थाना- ईचाक, जिला- हजारीबाग।	JRC	मौजा- हेन्देगढ़ा, थाना - चरही
12	श्री अशोक प्रसाद, पिता स्व० घनु महतो, ग्राम - मेरु, पो० - मेरु बी० एस० एफ०, थाना - मुफसिल, जिला- हजारीबाग।	ABS	मौजा- मेरु, थाना - मुफसिल
13	श्री सीताराम महतो, पिता श्री राम प्रसाद महतो, ग्रा० + पो० - सरैया, थाना- पदमा ओ० पी०, जिला- हजारीबाग।	Pragati	मौजा- सरैया, थाना - पदमा ओ० पी०
14	श्री संजय कुमार, पिता श्री राजेन्द्र प्रसाद सिंह, कुमार कुटीर, ग्राम - पो० - मटवारी, थाना- कोर्रा, जिला- हजारीबाग।	SSS	मौजा- पदमा, थाना - पदमा
15	श्री अजय कुमार मेहता, पिता श्री कारु मेहता, ग्रा० + पो० - पदमा, थाना- पदमा ओ० पी०, जिला- हजारीबाग।	ATH	मौजा- पदमा, थाना - पदमा ओ० पी०
16	श्री प्रभु यादव, पिता श्री दहन यादव, ग्रा० - गुंजा, पो० + थाना - ईचाक, जिला- हजारीबाग।	SBW	मौजा- फुसरी, थाना - चरही
17	श्री राधेश्याम प्रसाद, पिता स्व० बंशी प्रसाद मेहता, ग्रा० - तिलैडीह, पो० - सुर्यपुरा, थाना- पदमा ओ० पी०, जिला- हजारीबाग।	BKC	मौजा- तिलैडीह, थाना - पदमा ओ० पी०
18	श्री नरेश प्रसाद मेहता, पिता श्री रूपलाल महतो, ग्रा० - गुंजा, पो० + थाना - ईचाक, जिला- हजारीबाग।	SPC	मौजा- दासोखाप, थाना - चरही

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क्र०	ईट भट्टेदार का नाम एवं पता	मार्का	मौजा
1	2	3	4
19	श्री नागेश्वर महतो, पिता स्व० गिलो महतो, ग्रा० - गुँजा, थाना- ईचाक, जिला- हजारीबाग।	JPT	मौजा- हरहद, थाना - चुरचु
20	श्री अभय कुमार, पिता श्री नागेश्वर प्रसाद मेहता, ग्राम- जमुआरी, पो०- करियातपुर, थाना- ईचाक, जिला- हजारीबाग।	SPI	मौजा- हुरदाग, थाना - कटकमदाग
21	श्री तालेश्वर मेहता, पिता स्व० नान्हु महतो, ग्राम- गुँजा, पो०+थाना- ईचाक, जिला- हजारीबाग।	JBC	मौजा- चनारो, थाना - चरही
22	श्री हरे कृष्ण मुरारी सिंह, पिता श्री द्वारिका सिंह, ग्रा०+पो०+थाना- चरही, जिला- हजारीबाग।	JMT	मौजा- चरही, थाना - चरही
23	श्री प्रभु प्रसाद मेहता, पिता श्री सोमर महतो, ग्राम- गुँजा, पो०+थाना- ईचाक, जिला- हजारीबाग।	SPW	मौजा- चरही, थाना - चरही
24	श्री सुजीत कुमार, पिता श्री राम एकवाल सिंह, ग्राम + पो०- चरही, जिला- हजारीबाग।	RAM	मौजा- चनारो, थाना - चरही
25	श्री बीरेन्द्र कुमार सिंह, पिता स्व० बासुदेव सिंह, कॉन्परेटिव कॉलोनी, सदर, हजारीबाग।	JMD	मौजा- चनारो, थाना - चरही
26	श्री अशोक कुमार सिंह, पिता श्री पारसनाथ सिंह, काली मंदिर, हुरहुरु रोड़, हजारीबाग।	JMD	मौजा - नवादा, थाना - कटकमदाग
27	श्री सुरेश महतो, पिता श्री रामेश्वर महतो, ग्राम- चनारो, पो० + थाना- चरही, जिला- हजारीबाग।	SVI	मौजा- चनारो, थाना - चरही
28	श्री अरविन्द्र सिंह, पिता स्व० जगेश्वर सिंह, ग्राम + पो०- चरही, जिला- हजारीबाग।	SRW	मौजा- चनारो, थाना - चरही
29	श्री महेश प्रसाद मेहता, पिता स्व० जयलाल महतो, ग्राम + पो०- लुपूंग, थाना - कटकमसांडी, जिला- हजारीबाग।	SRW	मौजा- चनारो, थाना - चरही
30	श्री कान्त मेहता, पिता मुद्रिका प्रसाद मेहता, ग्रा०+पो०+थाना- पदमा, जिला- हजारीबाग।	JMD	मौजा- सरैया, थाना - पदमा
31	श्री बिनोद कुमार, पिता श्री प्रयाग साहू, ग्रा० - तुम्बा, पो० - मोरांगी, थाना - मुफफसिल, जिला- हजारीबाग।	DBC	मौजा- तुम्बा, थाना - मुफफसिल
32	श्री सीताराम प्रसाद मेहता, पिता श्री भुनेश्वर प्रसाद सिंह, ग्रा०+पो०- सरैया, थाना - पदमा ओ० पी०, जिला- हजारीबाग।	VKC	मौजा- सरैया, थाना - पदमा ओ० पी०
33	श्री सुरज नारायण मेहता, पिता स्व० इन्द्रो महतो, ग्रा०+पो०- सरैया, थाना - पदमा ओ० पी०, जिला- हजारीबाग।	MAA	मौजा- सरैया, थाना - पदमा ओ० पी०
34	श्री सुखदेव महतो, पिता स्व० अकल महतो, ग्रा० - सोकी, पो०- अमझर, थाना- मयुरहण्ड, जिला- चतरा।	KSC	मौजा- बितकिला थाना - बरही
35	श्री अशोक कुमार महतो, पिता श्री कृपाल महतो, ग्रा० - तलसवार, पो० - गोसाईबलिया, थाना - बड़कागाँव, जिला- हजारीबाग।	HMT	मौजा- सोहादी, थाना - बड़कागाँव
36	श्री संजय कुमार, पिता कृपाल महतो, ग्रा० - तलसवार, पो०- गोसाईबलिया, थाना - बड़कागाँव, जिला - हजारीबाग।	BRC	मौजा- कोयलंग थाना - बड़कागाँव
37	श्री राजेन्द्र साव, पिता स्व० गोपाल साव, ग्रा० - खिरगाँव, जिला- हजारीबाग।	SRI	मौजा- मरहन्द, थाना - कटकमदाग
38	श्री मुरली महतो, पिता मैनेजर महतो, ग्रा० - विश्रामपुर, पो०- साँढ़, थाना - बड़कागाँव, जिला- हजारीबाग।	RMC	मौजा- महुदी, थाना - बड़कागाँव



क्र०	ईट भट्टेदार का नाम एवं पता	मार्का	मौजा
1	2	3	4
39	श्री मनोज कुमार, पिता श्री टुकन महतो, ग्रा० + पो० - नवादा, थाना- कटकमदाग, जिला- हजारीबाग।	JMB	मौजा- जमुआरी, थाना - कटकमदाग
40	श्री मनोज कुमार, पिता श्री बोधन महतो, ग्रा० + पो० - नवादा, थाना- कटकमदाग, जिला- हजारीबाग।	MAA	मौजा- बेस, थाना - कटकमदाग
41	श्री प्रवीण कुमार, पिता श्री नन्दलाल महतो, ग्रा० - मिर्जापुर, पो० - साँढ़, थाना - बड़कागाँव, जिला - हजारीबाग।	JBN	मौजा- मिर्जापुर, थाना - बड़कागाँव
42	श्री मनोज कुमार, पिता श्री बोधन महतो, ग्रा० + पो० - नवादा, थाना- कटकमदाग, जिला- हजारीबाग।	MAA	मौजा- मरहन्द, थाना - कटकमदाग
43	श्री विकास कुमार महतो, पिता कोमल महतो, ग्रा० - गोन्दलपुरा, पो०- बादम, थाना - बड़कागाँव, जिला - हजारीबाग।	SAGAR	मौजा- गाली थाना - बड़कागाँव
44	श्री सोहन महतो, पिता सुखन महतो, ग्रा० - लकुरा, पो०+ थाना - बड़कागाँव, जिला - हजारीबाग।	PBC	मौजा- लकुरा, थाना - बड़कागाँव
45	श्री प्रभाकर कुमार (बंटी), पिता श्री अशोक कुमार सिंह, ग्रा०+पो०- अम्बाजीत, थाना - बड़कागाँव, जिला - हजारीबाग।	JSK	मौजा- मोतरा थाना - बड़कागाँव
46	श्री संजय कुमार, पिता कृपाल महतो, ग्रा० - तलसवार, पो०- गोसाईबलिया, थाना - बड़कागाँव, जिला - हजारीबाग।	BRC	मौजा- कोयलंग थाना - बड़कागाँव
47	श्री जगेश्वर तुरी, पिता हुलास तुरी, ग्रा० - कोयलंग, पो० - गोसाईबलिया, थाना- बड़कागाँव, जिला- हजारीबाग।	RBS	मौजा- कोयलंग, थाना - बड़कागाँव
48	श्री दिवाकर कुमार, पिता हिरामन साव, ग्रा० - डोकाटांड, पो०- गोसाईबलिया, थाना - बड़कागाँव, जिला- हजारीबाग।	DKB	मौजा- मलडीह थाना - बड़कागाँव
49	मो० असगर ईमाम, पिता स्व० हसन ईमाम, ग्रा०+पो० - बादम, थाना - बड़कागाँव, जिला- हजारीबाग।	BMC	मौजा- रुदी, थाना - बड़कागाँव
50	श्री रवि कुमार, पिता श्री जोती जलधर, ग्रा० - गोन्दलपुरा, पो० - बादम, थाना- बड़कागाँव, जिला- हजारीबाग।	GANGA	मौजा- गाली थाना - बड़कागाँव
51	श्री पंचम कुमार, पिता स्व० लक्ष्मण महतो, ग्रा० - गोन्दलपुरा, पो० - बादम, थाना- बड़कागाँव, जिला - हजारीबाग।	JMS	मौजा- मोतरा, थाना - बड़कागाँव
52	श्री मंगल तुरी, पिता - पुरण तुरी, ग्रा० - तलसवार, पो० - गोसाई बलिया, थाना- बड़कागाँव, जिला - हजारीबाग।	PRD	मौजा- कोयलंग, थाना - बड़कागाँव
53	श्री रोहित कुमार, पिता पुखन महतो, ग्रा० - गोन्दलपुरा, पो० - बादम, थाना- बड़कागाँव, जिला - हजारीबाग।	NBC	मौजा- गाली, थाना - बड़कागाँव
54	श्री राजन कुमार, पिता अरविन्द कुमार सिंह, ग्रा० - अम्बाजीत, पो०- अम्बाजीत, थाना - बड़कागाँव, जिला - हजारीबाग।	JRM	मौजा- अम्बाजीत थाना - बड़कागाँव
55	श्री आकाश नाथ प्रियतम, पिता सुधाकर नाथ पाण्डेय, ग्रा० - सुकुलखपिया, पो०- अम्बाजीत, थाना - बड़कागाँव, जिला - हजारीबाग।	BABA	मौजा- सुकुलखपिया थाना - बड़कागाँव
56	श्री बिसुन दयाल कुशवाहा, पिता श्री जेतु महतो, ग्रा०+ पो०+ थाना - बड़कागाँव, जिला - हजारीबाग।	RBC	मौजा- पडरिया, थाना - बड़कागाँव



57	श्री असित चक्रवती, पिता स्व० गोपाल चक्रवती, ग्राम - गोन्दलपुरा, पो- बादम, थाना- बड़कागाँव, जिला- हजारीबाग।	AMR	मौजा- गोन्दलपुरा, थाना - बड़कागाँव
58	श्री रणविजय कुमार, पिता स्व० हरिनाथ महतो, ग्रा० - काण्डतरी, पो०- साँढ़, थाना - बड़कागाँव, जिला- हजारीबाग।	APT	मौजा- पतरा, थाना - बड़कागाँव
59	श्री असित चक्रवती, पिता स्व० गोपाल चक्रवती, ग्राम - गोन्दलपुरा, पो- बादम, थाना- बड़कागाँव, जिला- हजारीबाग।	AMR	मौजा- गोन्दलपुरा, थाना - बड़कागाँव
60	श्री बिनोद कुमार मेहता, पिता श्री राम टहल महतो, ग्रा० - गोंदलपुरा, पो० - बादम, थाना- बड़कागाँव, जिला - हजारीबाग।	BMB	मौजा- अम्बाजीत थाना - बड़कागाँव
61	श्री गौरव कुमार, पिता दीनानाथ साव, उत्तरी शिवपुरी, हजारीबाग।	RHK	मौजा- मोतरा, थाना - बड़कागाँव
62	श्री रणविजय कुमार, पिता स्व० हरिनाथ महतो, ग्रा० - काण्डतरी, पो०- साँढ़, थाना - बड़कागाँव, जिला- हजारीबाग।	APT	मौजा- काण्डतरी, थाना - बड़कागाँव
63	श्री सुजीत कुमार महतो, पिता स्व० गिरधारी महतो, ग्रा० - गोन्दलपुरा, पो०- बादम, थाना - बड़कागाँव, जिला - हजारीबाग।	MTC	मौजा- फुलॉंग थाना - बड़कागाँव
64	श्री द्वारिका कुमार दास, पिता स्व० लधुवर दास, ग्रा० - नवादा, (खपरियाँवा), पो० - बनहा (नवादा), थाना- कटकमदाग, जिला- हजारीबाग।	JMW	मौजा- नवादा, थाना - कटकमदाग
65	श्री मोदी किशोर प्रजापति, पिता स्व० महादेव प्रजापति, ग्रा० + पो० - जरबा, थाना- मुफसिल, जिला - हजारीबाग।	MKW	मौजा- हरहद थाना - मुफसिल
66	श्री बलराम कुमार, पिता स्व० अनिल सिंह, ग्रा० +पो० - मोरांगी, थाना - मुफसिल, जिला - हजारीबाग।	JMB	मौजा- मोरांगी थाना - मुफसिल
67	श्री सुनिल कुमार, पिता स्व० निर्मल महतो, ग्रा० - हरहद, पो० - बनाह, थाना - मुफसिल, जिला- हजारीबाग।	JBC	मौजा- हुपाद, थाना - मुफसिल
68	श्री कान्त कुमार मेहता, पिता सोबरन प्रसाद मेहता, ग्रा० - तिलैडीह, पो० - सुरजपुरा, थाना- पदमा, जिला- हजारीबाग।	RKC	मौजा- नावाडीह, थाना - पदमा ओ० पी०
69	श्री सत्यानन्द कुमार, पिता श्री सुरत कुमार मेहता, ग्रा० + पो०- सुर्यपुरा, थाना- पदमा ओ० पी०, जिला- हजारीबाग।	PTC	मौजा- करमटॉड़, थाना - पदमा ओ० पी०
70	श्री रामचन्द्र प्रसाद, पिता स्व० भागी महतो, ग्रा० - सूजी, पो०- जीहू, थाना- पदमा ओ० पी०, जिला- हजारीबाग।	BRC	मौजा- अडार, थाना - पदमा ओ० पी०
71	श्री जय प्रकाश मेहता, पिता श्री बीरबल महतो, ग्रा०- तिलैडीह, पो०- सुरजपुरा, थाना- पदमा ओ० पी०, जिला - हजारीबाग।	SKC	मौजा- तिलैडीह थाना - पदमा ओ० पी०
72	श्री गणेश कुमार, पिता श्री आनन्द राम, ग्रा०+पो०+थाना- विष्णुगढ़, जिला- हजारीबाग।	NEHA	मौजा- बादी खरना, थाना - विष्णुगढ़



**BRICK KILN IN VILLAGES DISTRICT-HAZARIBAGH JHARKHAND**

S.NO	VILLAGE	TEHSIL
1	BENDGI	BARHI
2	KOILI	BARHI
3	CHAKURA	BARHI
4	RASOIA DHAMNA	BARHI
5	PURHARA	BARHI
6	DUMARDIH	BARHI
7	BARHI (CT)	BARHI
8	UJAINA	BARHI
9	KATTIAUN	BARHI
10	KHARAUN	BARHI
11	PORAIA	BARHI
12	KONRA (CT)	BARHI
13	NATHUAMARAN	BARHI
14	PADIRMA	BARHI
15	MADHOPUR	BARHI
16	KARIMATI	BARHI
17	CHACHRO	BARHI
18	SINGPUR ORAIA	BARHI
19	TILODIH	BARHI
20	KENDUA	BARHI
21	BUNDU	BARHI
22	MAJHGANWA	BARHI
23	KARMA	BARHI
24	TILAIA	BARHI
25	GOAS	BARHI
26	CHANDABIHA	BARHI
27	MAHUATANR	BARHI
28	BELA	BARHI
29	KARGAIO	BARHI
30	KANDAGHOGHAR	BARHI
31	GURIO	BARHI
32	BODIAJAWAR	BARHI
33	CHITRAO	BARHI
34	KOLHUA KALAN	BARHI
35	DHOBIAPAHRI	BARHI
36	KOLHUA KHURD ALIAS JAWAR	BARHI
37	ALAGDIHA	BARHI
38	BHADEA	BARHI
39	BAHERABAD	BARHI
40	TETARIA BHANDARO	BARHI
41	BEJLADIH	BARHI
42	CHILODIH	BARHI
43	BHANDARO	BARHI
44	BALAURI	BARHI
45	PURHARA	BARHI
46	BAIRISAL	BARHI
47	MURLIKATIA	BARHI
48	HATHGADA	BARHI
49	GARJAMU	BARHI
50	MADANPUR	BARHI
51	KHURDJAWAR	BARHI
52	DAPOKH	BARHI
53	BALIDIH	BARHI
54	BJAIA	BARHI
55	BELHARA	BARHI
56	HALMATA	BARHI
57	ORPARTA	BARHI
58	JOGIBANDH	BARHI
59	BAGHMARA	BARHI

POTENTIAL Hazaribagh\_Village\_Block



60	PAHARPUR	BARHI
61	NAWADIH	BARHI
62	MALKOKO	BARHI
63	ROHANIA	BARHI
64	PADARIA	BARHI
65	BARIATHA	BARHI
66	CHUNDIAGAJUA	BARHI
67	BAKSHIDIH	BARHI
68	NAGARBARISOT	BARHI
69	KARIATPUR CHOTTI	BARHI
70	DUDHPANIA	BARHI
71	PIPRAGHOGHAR	BARHI
72	DULMAHA	BARHI
73	MALIKIDIH	BARHI
74	DHUARGARGI ALIAS BISHUNPUR	BARHI
75	GOJO	BARHI
76	BASARIA	BARHI
77	LACHHUDIH	BARHI
78	HARILA	BARHI
79	KARSO	BARHI
80	JARAHIA	BARHI
81	KULANGA	BARHI
82	BAMHANDIH	BARHI
83	GARLAHI	BARHI
84	SALON	BARHI
85	MAHUGARA	BARHI
86	CHALANGA	BARHI
87	RANICHUNWA	BARHI
88	KARHARIA	BARHI
89	PIPRATANR	BARHI
90	DHOBGHAT	BARHI
91	KUTMA	BARHI
92	JITPUR	BARHI
93	SINGHPUR KALAN	BARHI
94	CHORGARHA	BARHI
95	SINGHPUR KHURD	BARHI
96	DHANWAR	BARHI
97	ARAGARA	BARHI
98	KEWAL	BARHI
99	LATHIA	BARHI
100	BARDAG	BARHI
101	GAMHARIA	BARHI
102	JABARIA	BARHI
103	HUTUWA	BARHI
104	RALO	BARHI
105	DAURWA	BARHI
106	KUNRWA	BARHI
107	KADWA	BARHI
108	KHONRA AHAR	BARHI
109	KOHUDAG	BARHI
110	GHIAHI	BARHI
111	MAHUA PARA	BARHI
112	ARADIRI	BARHI
113	BANGANWA	BARHI
114	KEDORAT	BARHI
115	DEOCHANDA	BARHI
116	KAJRA	BARHI
117	GAURIA KARMA	BARHI
118	BITKIA	BARHI
119	CHATRO	BARHI
120	BELADOHAR	BARHI

POTENTIAL Hazaribagh\_Village\_Block



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121	DHAMLJ	BARHI
122	LAKHNA	BARHI
123	HUDUA	BARKAGAON
124	GUGRA	BARKAGAON
125	CHEPA KALAN	BARKAGAON
126	ARAHARA	BARKAGAON
127	PAKRI BARWADIH	BARKAGAON
128	CHEPA KHURD	BARKAGAON
129	DARIKALAN	BARKAGAON
130	SINDUARI	BARKAGAON
131	CHIRUDIH	BARKAGAON
132	NAGRI	BARKAGAON
133	URULE	BARKAGAON
134	CHURCHU	BARKAGAON
135	SONBARSA	BARKAGAON
136	KERI	BARKAGAON
137	LANGATU	BARKAGAON
138	SIKRI	BARKAGAON
139	PANDARIA	BARKAGAON
140	SIRMA	BARKAGAON
141	KANRTARI	BARKAGAON
142	DHENGA	BARKAGAON
143	SANRH	BARKAGAON
144	CHANDAUL	BARKAGAON
145	PANDUAL	BARKAGAON
146	MARDU	BARKAGAON
147	BABU BALIA	BARKAGAON
148	MAHUGAIN KALAN	BARKAGAON
149	MAHUGAIN KHURD	BARKAGAON
150	DAMODAR	BARKAGAON
151	SUKUL KHAPIA	BARKAGAON
152	MOTRA	BARKAGAON
153	AMMBAJIT	BARKAGAON
154	PHULANG	BARKAGAON
155	HORAM SIBADIH	BARKAGAON
156	BHADULI PIPRADIH	BARKAGAON
157	HAHE	BARKAGAON
158	BALODAR	BARKAGAON
159	JORAKATH	BARKAGAON
160	GALI	BARKAGAON
161	RUDI	BARKAGAON
162	RAUTPARA	BARKAGAON
163	KUTULUA	BARKAGAON
164	DAMBADIH	BARKAGAON
165	GONDALPURA	BARKAGAON
166	BADAM	BARKAGAON
167	HARLI	BARKAGAON
168	NOPO KALAN	BARKAGAON
169	KHARANTI	BARKAGAON
170	GOSAIN BALIA	BARKAGAON
171	CHOBDAR BALIA	BARKAGAON
172	ISKO	BARKAGAON
173	CHAPRI	BARKAGAON
174	SAHEDA	BARKAGAON
175	KOUNSI	BARKAGAON
176	LURUNGA	BARKAGAON
177	BARWANIA	BARKAGAON
178	NOPO KHURD	BARKAGAON
179	MALDIH	BARKAGAON
180	NAWATANR	BARKAGAON
181	BISRAMPUR	BARKAGAON

POTENTIAL Hazaribagh\_Village\_Block



B

182	SAKRI	BARKAGAON
183	SONPURA	BARKAGAON
184	MIRZAPUR	BARKAGAON
185	MAHUDI	BARKAGAON
186	TALASWAR	BARKAGAON
187	KOELANG	BARKAGAON
188	PALANDU	BARKAGAON
189	KUNDRU	BARKAGAON
190	PATRA	BARKAGAON
191	BARTUA	BARKAGAON
192	SOHADI	BARKAGAON
193	PACHANDA	BARKAGAON
194	UREJ	BARKAGAON
195	DEOGARH	BARKAGAON
196	ANGO	BARKAGAON
197	ASWA	BARKAGAON
198	BARKAGAON	BARKAGAON
199	CHANO	BARKAGAON
200	RONHE ALIAS PASERIA	BARKAGAON
201	POTANGA	BARKAGAON
202	JARJARA	BARKAGAON
203	URIMARI	BARKAGAON
204	GARSULA	BARKAGAON
205	LAKURA	BARKAGAON
206	BEFBELTAUL	BARKAGAON
207	DAMOHANI NIMATANR	BARKATHA
208	BEROGAIN	BARKATHA
209	JHWHAOHRA	BARKATHA
210	CHHUTHARI KATIA	BARKATHA
211	BARKANGANGO	BARKATHA
212	SIMRIASIRMATDIH	BARKATHA
213	BANPURA	BARKATHA
214	CHUGLAMO	BARKATHA
215	BASRAMO	BARKATHA
216	CHHAHARIAON	BARKATHA
217	KENDUA	BARKATHA
218	TURUKBAD	BARKATHA
219	GAIRA	BARKATHA
220	BEROKHURD	BARKATHA
221	KURCHUNO	BARKATHA
222	CHANDGARH	BARKATHA
223	LOKEA	BARKATHA
224	BUCHAI PATHAURIA	BARKATHA
225	KHAIRA	BARKATHA
226	BURHIADIH	BARKATHA
227	NAITANR	BARKATHA
228	KAPKA	BARKATHA
229	DHORHIA	BARKATHA
230	KIMANIA	BARKATHA
231	GANGPACHO	BARKATHA
232	KALHABER	BARKATHA
233	JHINGIBARAI	BARKATHA
234	GAIPAHARI	BARKATHA
235	PESRA	BARKATHA
236	ALPITO	BARKATHA
237	GUNJRA	BARKATHA
238	GANGTIAHI	BARKATHA
239	JHURJHURI	BARKATHA
240	GHANGRI	BARKATHA
241	MERAMGARAH	BARKATHA
242	SIJHUA	BARKATHA

POTENTIAL Hazaribagh\_Village\_Block



243	UPRAILDEBO	BARKATHA
244	HETHLI DEBO	BARKATHA
245	TILALA PAEHRUKHI	BARKATHA
246	RAUSA	BARKATHA
247	CHOTHA	BARKATHA
248	CHEEHKAPDI	BARKATHA
249	KUNHARA KALAN	BARKATHA
250	KUMARDIHA	BARKATHA
251	KAWALU	BARKATHA
252	SONRKHAP	BARKATHA
253	KHARIO	BARKATHA
254	KUNHARA KHURD	BARKATHA
255	SALALA	BARKATHA
256	BARAHKATHA	BARKATHA
257	BARWAN	BARKATHA
258	BASARIA	BARKATHA
259	MASIPIRHI	BARKATHA
260	TUIO	BARKATHA
261	SAKREJ	BARKATHA
262	PIPRAHI	BARKATHA
263	DHOBARI	BARKATHA
264	DUMARDIHA	BARKATHA
265	TURUKDIHA	BARKATHA
266	JAWAR PAHARPUR	BARKATHA
267	GORHAR	BARKATHA
268	LEMUA	BARKATHA
269	TETARIA	BARKATHA
270	SURUJ KHURD	BARKATHA
271	NAWADIHA	BARKATHA
272	CHAMUDAHAR	BARKATHA
273	BARADIH	BARKATHA
274	PARBATA	BARKATHA
275	LAGANWA	BARKATHA
276	SILADIH	BARKATHA
277	BANWARI	BARKATHA
278	LEORA	BARKATHA
279	JAMUA	BARKATHA
280	GAIPAHARI	BARKATHA
281	MADHUBAN	BARKATHA
282	KENDUA	BARKATHA
283	BERO KALAN ALIAS BERO	BARKATHA
284	PANDNA	BARKATHA
285	MADHOPUR	BARKATHA
286	DODHARA	BARKATHA
287	BELKAPI	BARKATHA
288	KOSO	BARKATHA
289	DHARHARA	BARKATHA
290	KARICHATAN	BARKATHA
291	CHATKARI	BISHNUGARH
292	ALKHARI KALAN	BISHNUGARH
293	BHUNRERI	BISHNUGARH
294	GANRRARBARA	BISHNUGARH
295	BARA	BISHNUGARH
296	BURHA CHANCH G.P	BISHNUGARH
297	CHALKARI KHURD	BISHNUGARH
298	CHALKARI KALAN	BISHNUGARH
299	SAULADIH	BISHNUGARH
300	KIRTODIH	BISHNUGARH
301	CHUKCHUKO	BISHNUGARH
302	BASARIA	BISHNUGARH
303	DONGO	BISHNUGARH

POTENTIAL Hazaribagh\_Village\_Block



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304	GAINRA	BISHNUGARH
305	BUKNA	BISHNUGARH
306	BERAHARIHARA	BISHNUGARH
307	KHAMA	BISHNUGARH
308	GOLGO	BISHNUGARH
309	URGI	BISHNUGARH
310	BHELWARA R.F.	BISHNUGARH
311	PANREJARIA	BISHNUGARH
312	NAWADIH	BISHNUGARH
313	CHALANGA	BISHNUGARH
314	BHULAHIMURGAON	BISHNUGARH
315	UPRAILIMURGAON	BISHNUGARH
316	HETHLIMURGAON	BISHNUGARH
317	CHITRAMU	BISHNUGARH
318	RAMUA	BISHNUGARH
319	TARABAD	BISHNUGARH
320	BADIKHAMA	BISHNUGARH
321	CHALNIA	BISHNUGARH
322	KATWAHI	BISHNUGARH
323	CHONTHA	BISHNUGARH
324	LEMBUA	BISHNUGARH
325	ALPITO	BISHNUGARH
326	NAWADIH	BISHNUGARH
327	ALKOPI	BISHNUGARH
328	BISHUNGARH	BISHNUGARH
329	TANDA	BISHNUGARH
330	DANDIA	BISHNUGARH
331	HETHLIBODRA	BISHNUGARH
332	SIMARIA	BISHNUGARH
333	GUNDRO	BISHNUGARH
334	BARAI	BISHNUGARH
335	JAMUA	BISHNUGARH
336	ALKHARIKHURD	BISHNUGARH
337	KHARKHUNDO	BISHNUGARH
338	TETARIA	BISHNUGARH
339	GOBINDPUR KALAN	BISHNUGARH
340	GOBINDPUR KHURD	BISHNUGARH
341	KHAMHARA	BISHNUGARH
342	JARIA MAHUTOLA	BISHNUGARH
343	BARHUMURIA	BISHNUGARH
344	DUMARDIHA	BISHNUGARH
345	GARMURGI	BISHNUGARH
346	PARSABERA	BISHNUGARH
347	MANGO MAHUATANR	BISHNUGARH
348	JAMUNIJARA	BISHNUGARH
349	LAHARIADIH	BISHNUGARH
350	TILAIYA	BISHNUGARH
351	ARJARI	BISHNUGARH
352	ALKILWA	BISHNUGARH
353	GAJHANDIH	BISHNUGARH
354	RANGAMATI	BISHNUGARH
355	PARASLA	BISHNUGARH
356	BAJA	BISHNUGARH
357	NARKI KHURD	BISHNUGARH
358	BARKI NARKI	BISHNUGARH
359	KHARKI	BISHNUGARH
360	JABAR	BISHNUGARH
361	KHARKATTO	BISHNUGARH
362	BANKHARO	BISHNUGARH
363	SALMANDRA	BISHNUGARH
364	NAGI	BISHNUGARH



POTENTIAL Hazaribagh\_Village\_Block

*[Handwritten signature]*

365	UNCHAGHARA	BISHNUGARH
366	CHIRUDIH	BISHNUGARH
367	MARMO	BISHNUGARH
368	NAWADIH	BISHNUGARH
369	CHIHUTIA	BISHNUGARH
370	SARUKUDAR	BISHNUGARH
371	PHARACHANCH	BISHNUGARH
372	CHATANIA	BISHNUGARH
373	MANGRO	BISHNUGARH
374	CHANO	BISHNUGARH
375	UDALPERE OR THATHAYATAN	BISHNUGARH
376	ACHALJAMU	BISHNUGARH
377	CHERRA	BISHNUGARH
378	KUSUMBHA	BISHNUGARH
379	BABUDIH	BISHNUGARH
380	CHAMAKHIA	BISHNUGARH
381	NAWADA	BISHNUGARH
382	NIRGHUNA	BISHNUGARH
383	BHALUA	BISHNUGARH
384	BILANDI	BISHNUGARH
385	BANASO	BISHNUGARH
386	LEDI	BISHNUGARH
387	MAYAPUR	BISHNUGARH
388	BAKASPURA	BISHNUGARH
389	BHENDAMURGI	BISHNUGARH
390	DUMDUMA	CHALKUSHA
391	RAGDIH	CHALKUSHA
392	KANDUA	CHALKUSHA
393	PANDNATANR	CHALKUSHA
394	MASANI	CHALKUSHA
395	CHALKARI	CHALKUSHA
396	KOLHUAKUDAR	CHALKUSHA
397	GHORBANDHA	CHALKUSHA
398	JARPA	CHALKUSHA
399	SALADIH	CHALKUSHA
400	PASARIA	CHALKUSHA
401	SUDAN	CHALKUSHA
402	CHANDANGUNDO	CHALKUSHA
403	MANGO	CHALKUSHA
404	CHALKUSA	CHALKUSHA
405	BARADIH	CHALKUSHA
406	GOPIDIH	CHALKUSHA
407	MAHUATANR	CHALKUSHA
408	GARGI	CHALKUSHA
409	KHIJURSOTA	CHALKUSHA
410	BARANO	CHALKUSHA
411	ALAGDIHA	CHALKUSHA
412	NARAINA	CHALKUSHA
413	DIGWAR	CHALKUSHA
414	MASKEDIH	CHALKUSHA
415	BARIAUN	CHALKUSHA
416	KATGHARA	CHALKUSHA
417	LARA	CHALKUSHA
418	KHARI	CHALKUSHA
419	MANOIA	CHALKUSHA
420	BANGAWAN	CHALKUSHA
421	PARATKOLA	CHALKUSHA
422	JAMOSTI	CHALKUSHA
423	DHOBIADIH	CHALKUSHA
424	KHARPOKA	CHALKUSHA
425	BHIKHANADIH	CHALKUSHA

POTENTIAL Hazaribagh\_Village\_Block



13

426	DHARHAI	CHALKUSHA
427	BHIKHNADIH	CHALKUSHA
428	SEWATANR	CHALKUSHA
429	CHAUBE	CHALKUSHA
430	BIRMAKI	CHALKUSHA
431	KHARGO	CHALKUSHA
432	HADAHI	CHOUPARAN
433	LARAHI	CHOUPARAN
434	DHAB SALAUNIA	CHOUPARAN
435	BHATBIGHA	CHOUPARAN
436	NAWADIH	CHOUPARAN
437	SELAHRA KALAN	CHOUPARAN
438	CHAK	CHOUPARAN
439	PARBHI	CHOUPARAN
440	PIPRADIH	CHOUPARAN
441	HAPWA	CHOUPARAN
442	PARTAPUR	CHOUPARAN
443	MAJHGAWAN	CHOUPARAN
444	PATHRA	CHOUPARAN
445	ASNABAD	CHOUPARAN
446	MADHOPUR	CHOUPARAN
447	CHAKUNDHA	CHOUPARAN
448	SAHJADIH	CHOUPARAN
449	BHAGWANPUR	CHOUPARAN
450	PETULA	CHOUPARAN
451	PANANAGHAT	CHOUPARAN
452	NAWAGARH	CHOUPARAN
453	GAIPAHERI	CHOUPARAN
454	ALAGDIHA	CHOUPARAN
455	DHAROBAD	CHOUPARAN
456	DARJI CHAK	CHOUPARAN
457	KOTIYADIH	CHOUPARAN
458	DEBO	CHOUPARAN
459	RAMPUR	CHOUPARAN
460	PIPRAKONI	CHOUPARAN
461	ROKTACHUAN	CHOUPARAN
462	GARKE	CHOUPARAN
463	LOHRA	CHOUPARAN
464	DUARI	CHOUPARAN
465	AMBATARI	CHOUPARAN
466	PARSATARI	CHOUPARAN
467	BHANDAR	CHOUPARAN
468	GHARSARI	CHOUPARAN
469	KAIRJHAR	CHOUPARAN
470	BHAGHAR	CHOUPARAN
471	KALAPAHAR	CHOUPARAN
472	MAISA KHAR	CHOUPARAN
473	BUKAR	CHOUPARAN
474	GARMORWA	CHOUPARAN
475	MALNUKHAR	CHOUPARAN
476	GHAGHRAIT	CHOUPARAN
477	KHAIRATANR	CHOUPARAN
478	PATHALGARWA	CHOUPARAN
479	KOTHODUMAR	CHOUPARAN
480	ARHI	CHOUPARAN
481	SANJHA	CHOUPARAN
482	CHORDAHA	CHOUPARAN
483	KENDUAHI alias DANUA	CHOUPARAN
484	SILODAR	CHOUPARAN
485	MURATIA KALAN	CHOUPARAN
486	KAFAR	CHOUPARAN



POTENTIAL Hazaribagh\_Village\_Block

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487	JUNGLE CHARAN DASS KENDUA	CHOUPARAN
488	AMRAUL	CHOUPARAN
489	MAJHAULIA	CHOUPARAN
490	BARDAGA	CHOUPARAN
491	GERUGHAT	CHOUPARAN
492	NEORI	CHOUPARAN
493	BIRANCHI CHAK	CHOUPARAN
494	KARMA	CHOUPARAN
495	LAKHAWAR	CHOUPARAN
496	KENDUA KHURD	CHOUPARAN
497	BANIA CHAK	CHOUPARAN
498	KABILASH	CHOUPARAN
499	BHADAN	CHOUPARAN
500	PAKARIA KHURD	CHOUPARAN
501	DAIHAR PAKARIA	CHOUPARAN
502	DAIHAR	CHOUPARAN
503	NIMA	CHOUPARAN
504	GURI KALAN	CHOUPARAN
505	KOISIARI	CHOUPARAN
506	LALKISHUM CHAK ICHAK	CHOUPARAN
507	HATHINDAR	CHOUPARAN
508	BIGHA	CHOUPARAN
509	SAHORA	CHOUPARAN
510	DHORIA	CHOUPARAN
511	SIKDA	CHOUPARAN
512	DURAGARA	CHOUPARAN
513	MURAINIA	CHOUPARAN
514	PATHAL GARA	CHOUPARAN
515	SAHIJANA	CHOUPARAN
516	MURINA	CHOUPARAN
517	BONGA	CHOUPARAN
518	UCHAHI	CHOUPARAN
519	SAWAIYA	CHOUPARAN
520	PARSAWAN	CHOUPARAN
521	BERHNI	CHOUPARAN
522	BERHNA	CHOUPARAN
523	BISHUNPUR	CHOUPARAN
524	MOTICHAK	CHOUPARAN
525	KADWARI	CHOUPARAN
526	JHANPA	CHOUPARAN
527	SINDUARI CHAK	CHOUPARAN
528	DANGURI	CHOUPARAN
529	KOLHUA	CHOUPARAN
530	BERBNABARA	CHOUPARAN
531	CHHATARPURA	CHOUPARAN
532	FAGIR CHAK	CHOUPARAN
533	SUJI	CHOUPARAN
534	DADDPUR	CHOUPARAN
535	HATHIA	CHOUPARAN
536	DHILWABAD	CHOUPARAN
537	CHAKRASAR	CHOUPARAN
538	BHOJPUR	CHOUPARAN
539	BHATWA CHAK	CHOUPARAN
540	CHAI KALAN	CHOUPARAN
541	CHAI KHURD	CHOUPARAN
542	DHAB	CHOUPARAN
543	BHUSANDIH	CHOUPARAN
544	AKRAHAWAN	CHOUPARAN
545	SWAIA SAHASPUR	CHOUPARAN
546	MORAINIA	CHOUPARAN
547	BELA	CHOUPARAN



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548	MAKANPUR	CHOUPARAN
549	PACHMO	CHOUPARAN
550	JHALAKPUR	CHOUPARAN
551	BAIDA CHAK	CHOUPARAN
552	BELKHARA	CHOUPARAN
553	LOHANDI KHURD	CHOUPARAN
554	LARAIA	CHOUPARAN
555	BHADEL	CHOUPARAN
556	MADHGOPALI	CHOUPARAN
557	BIGHA	CHOUPARAN
558	KHARAHUWAN	CHOUPARAN
559	RUPIN	CHOUPARAN
560	TANRDIH	CHOUPARAN
561	RANIK	CHOUPARAN
562	GURUADIH	CHOUPARAN
563	MODI CHAK	CHOUPARAN
564	PAPRO	CHOUPARAN
565	KALWACHAK	CHOUPARAN
566	DOMADANDE	CHOUPARAN
567	CHAITHI	CHOUPARAN
568	CHAUPARAN	CHOUPARAN
569	TAJPUR	CHOUPARAN
570	MARHERI	CHOUPARAN
571	TETARIYA	CHOUPARAN
572	KARANJUA	CHOUPARAN
573	ASNACHUAN	CHOUPARAN
574	BAGESRITHAN	CHOUPARAN
575	KEWAL	CHOUPARAN
576	KUBRI	CHOUPARAN
577	SIJHUA	CHOUPARAN
578	BARA	CHOUPARAN
579	KENDUA	CHOUPARAN
580	DARJICHAK	CHOUPARAN
581	KARMA	CHOUPARAN
582	DOIYA	CHOUPARAN
583	BANGAWAN	CHOUPARAN
584	JOKAT	CHOUPARAN
585	TILAIA	CHOUPARAN
586	MOHUDI	CHOUPARAN
587	CHAMRA CHAK	CHOUPARAN
588	CHAK	CHOUPARAN
589	BARA	CHOUPARAN
590	MANPUR	CHOUPARAN
591	NAGWAN	CHOUPARAN
592	GOSLA	CHOUPARAN
593	MANGARH	CHOUPARAN
594	SARDARPUR	CHOUPARAN
595	LAPSIA	CHOUPARAN
596	MAHUDAR ALIAS BHATBIGHA	CHOUPARAN
597	MACHLA	CHOUPARAN
598	KAKRAULA	CHOUPARAN
599	JACHAK	CHOUPARAN
600	KEDLI KHURD	CHOUPARAN
601	KEDLI KALAN	CHOUPARAN
602	SIDHU CHAK	CHOUPARAN
603	BAJRAHI	CHOUPARAN
604	NARIAHI	CHOUPARAN
605	KESATH	CHOUPARAN
606	BAHERA	CHOUPARAN
607	MANGARH	CHOUPARAN
608	THUTHI	CHOUPARAN

POTENTIAL Hazaribagh\_Village\_Block



B

609	LOHANDI KALAN	CHOUPARAN
610	CHACHROKH	CHOUPARAN
611	NAUDIHA	CHOUPARAN
612	KOILI KHURD	CHOUPARAN
613	KOILI KALAN	CHOUPARAN
614	KUTLU	CHOUPARAN
615	KENDUA	CHOUPARAN
616	PAWAI	CHOUPARAN
617	KAMALBAR	CHOUPARAN
618	BARHI CHAK	CHOUPARAN
619	ARPAGAR	CHOUPARAN
620	NARAINA	CHOUPARAN
621	JAGDISHPUR	CHOUPARAN
622	BARA	CHOUPARAN
623	MAYAPUR	CHOUPARAN
624	GANGA AHAR	CHOUPARAN
625	KEOLA	CHOUPARAN
626	BELA	CHOUPARAN
627	PIPRA	CHOUPARAN
628	HAZARI DHAMNA	CHOUPARAN
629	SINGHRAWAN	CHOUPARAN
630	TITHIN	CHOUPARAN
631	BACHHSI	CHOUPARAN
632	DUMRI	CHOUPARAN
633	CHAPRI KALAN	CHOUPARAN
634	BURHIA DABAR	CHOUPARAN
635	CHAPRI KHURD	CHOUPARAN
636	JAGODIH	CHOUPARAN
637	PARJABAD	CHOUPARAN
638	MAHUABAD	CHOUPARAN
639	KANHA CHAK	CHOUPARAN
640	PAKAR TANR	CHOUPARAN
641	BURHIA AHRI	CHOUPARAN
642	BARETAM	CHOUPARAN
643	KATHAMBA	CHOUPARAN
644	DHOBDA AHRI	CHOUPARAN
645	LALCHANDBADH ALIAS BARWADI	CHOUPARAN
646	GURUBARA	CHOUPARAN
647	PANDARIA	CHOUPARAN
648	BANAU	CHOUPARAN
649	AMJHAR	CHOUPARAN
650	BHAIAPATTI	CHOUPARAN
651	BASARIA	CHOUPARAN
652	KENDUA	CHOUPARAN
653	HATHIA	CHOUPARAN
654	BELAHI	CHOUPARAN
655	RATNAG	CHOUPARAN
656	PORO	CHOUPARAN
657	ARAIA	CHOUPARAN
658	AMBAJIT	CHOUPARAN
659	BARAHMORIA	CHOUPARAN
660	RAM CHAK	CHOUPARAN
661	SONPURA	CHOUPARAN
662	RATANPUR	CHOUPARAN
663	RAMJITA	CHOUPARAN
664	NAYAKHAP SIRMA	CHOUPARAN
665	PHULWARIA	CHOUPARAN
666	BANJHI	CHOUPARAN
667	PACHRUKHI	CHOUPARAN
668	KANTI	CHOUPARAN
669	MAHUAS	CHOUPARAN



670	SARDHAWATANR	CHOUPARAN
671	BIRINDA	CHOUPARAN
672	DOMAPAHARI	CHOUPARAN
673	NAWADIH	CHOUPARAN
674	BAGAH	CHOUPARAN
675	RAMO	CHOUPARAN
676	TOIYA	CHOUPARAN
677	SELAHRA KHURD	CHOUPARAN
678	GOBINDPUR ALIAS GONDPUR	CHOUPARAN
679	SIMARIA	CHOUPARAN
680	CHAK	CHOUPARAN
681	OBRA	CHOUPARAN
682	LANGURA ALIAS BELATANR	CHOUPARAN
683	MALIKANA	CHOUPARAN
684	SEWAI	CHOUPARAN
685	BARWADIH	CHOUPARAN
686	KURHAWA	CHOUPARAN
687	MARGOJA	CHOUPARAN
688	NAWADA	CHOUPARAN
689	KAIRI PIPRAHI	CHOUPARAN
690	JUNGLE BARJA DASS KENDUA	CHOUPARAN
691	BENDAURA	CHOUPARAN
692	JAWANPUR	CHOUPARAN
693	INGUNIA	CHOUPARAN
694	BAHIMAR	CHOUPARAN
695	DHAB	CHOUPARAN
696	SINGHPUR	CHOUPARAN
697	NAWADIH	CHOUPARAN
698	KHURANDIH	CHURCHU
699	JAMDIHA	CHURCHU
700	LARA	CHURCHU
701	TASNALO	CHURCHU
702	SANRI	CHURCHU
703	BUZURG NANO	CHURCHU
704	DHAMANSARIA	CHURCHU
705	NAGRI CHURCHU	CHURCHU
706	RAHAMDAGA	CHURCHU
707	OREYA	CHURCHU
708	SARJO	CHURCHU
709	POTMO	CHURCHU
710	CHURCHU	CHURCHU
711	CHICHI KALAN	CHURCHU
712	CHICHIKHURD	CHURCHU
713	BELGARA	CHURCHU
714	JORDAG	CHURCHU
715	DUMAR	CHURCHU
716	BODRA	CHURCHU
717	BALI	CHURCHU
718	LOTHE	CHURCHU
719	GONDWAR	CHURCHU
720	KARGI	CHURCHU
721	LOSODIH	CHURCHU
722	PIPRA	CHURCHU
723	KAJRI	CHURCHU
724	BAHERA	CHURCHU
725	PHUSRI	CHURCHU
726	CHANARO	CHURCHU
727	CHARHI	CHURCHU
728	SARBAHA	CHURCHU
729	BANDA	CHURCHU
730	HARHAD	CHURCHU

POTENTIAL Hazaribagh\_Village\_Block



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731	KARU KHAP	CHURCHU
732	BANSADIH	CHURCHU
733	HENDEGARA	CHURCHU
734	INDRA	CHURCHU
735	JARWA	CHURCHU
736	MUKRU	CHURCHU
737	DASO KHAP	CHURCHU
738	ANGO	CHURCHU
739	NAGRI	CHURCHU
740	KURA	DADI
741	RIKBA	DADI
742	KHAPIA	DADI
743	HANHEMORHA	DADI
744	PADRANGI	DADI
745	HUANG	DADI
746	PINDRA	DADI
747	CHAINPUR	DADI
748	BALSOGRA	DADI
749	KODWE	DADI
750	BHURKUNDA	DADI
751	RABODH	DADI
752	KODWE	DADI
753	KANKI	DADI
754	SENAGARA	DADI
755	HUSIR	DADI
756	NAPO	DADI
757	HESALONG	DADI
758	TONGI	DADI
759	BANDU	DADI
760	BASARIA	DADI
761	SUIYADIH	DADI
762	BANSKUDRA	DADI
763	DARI (CT)	DADI
764	LUKUIYA	DADI
765	MISRAIN MORHA	DADI
766	KURKUTA	DADI
767	RELIGARA ALIAS PACHHIARI (CT)	DADI
768	GIDI (CT)	DADI
769	CHANO KHURD	DARU
770	JARGA	DARU
771	BASARIA	DARU
772	PUNAI	DARU
773	LONHRI KALAN	DARU
774	BALIA	DARU
775	SILADIH	DARU
776	GARISARAM	DARU
777	KABILASI	DARU
778	TIUJ	DARU
779	JAMUARI	DARU
780	JAMBUA	DARU
781	KANAUDI	DARU
782	CHORHET	DARU
783	GHAGHARA KHURD	DARU
784	AMLI	DARU
785	MERKURI KALAN	DARU
786	MUKTAMA	DARU
787	DEORIA	DARU
788	LORTANGO	DARU
789	UNCHABHERA	DARU
790	BASOBAR	DARU
791	PETO	DARU

POTENTIAL Hazaribagh\_Village\_Block



B

792	DARU	DARU
793	PIPCHO	DARU
794	BHANRARBAR	DARU
795	CHIRUAN	DARU
796	IRGA	DARU
797	BARABAR	DARU
798	GEREA	DARU
799	RACHANGA	DARU
800	RAHAMDAGA	DARU
801	PURNINANO	DARU
802	AKAKUMBA	DARU
803	DIGWAR	DARU
804	TURIBAR	DARU
805	DARU KHARIKA	DARU
806	KARBAR	DARU
807	KAWALU	DARU
808	GOPLO	DARU
809	HARLI	DARU
810	KOEN	DARU
811	TILAIYA	DARU
812	JHUMRA	DARU
813	JONHEA	DARU
814	MAHESRA ALIAS MAHOSAR	DARU
815	JINGA	DARU
816	RAMDEO KHARIKA	DARU
817	TATGAWAN	DARU
818	SUARBANDA	DARU
819	KANJHIA	DARU
820	TARBA	HAZARIBAGH
821	KHARBA	HAZARIBAGH
822	PUNDRI	HAZARIBAGH
823	BANDUA	HAZARIBAGH
824	HUTPA	HAZARIBAGH
825	INDA	HAZARIBAGH
826	LAKHAIYA	HAZARIBAGH
827	CHAYA	HAZARIBAGH
828	BANAHAPA	HAZARIBAGH
829	MERU	HAZARIBAGH
830	DANDAI KHURD	HAZARIBAGH
831	AMNARI	HAZARIBAGH
832	SEKHA	HAZARIBAGH
833	TUTI	HAZARIBAGH
834	SILWAR KHURD	HAZARIBAGH
835	KESURA	HAZARIBAGH
836	AMBADIH	HAZARIBAGH
837	REHDA	HAZARIBAGH
838	DUMAR	HAZARIBAGH
839	SARAUNI KALAN	HAZARIBAGH
840	JITU	HAZARIBAGH
841	BARGHUTUWA	HAZARIBAGH
842	CHUTIARO	HAZARIBAGH
843	SARAUNI KHURD	HAZARIBAGH
844	SILWAR KALAN	HAZARIBAGH
845	KATGHARA	HAZARIBAGH
846	CHANO	HAZARIBAGH
847	DHAWAIYA	HAZARIBAGH
848	HUDAR	HAZARIBAGH
849	RAUTRA	HAZARIBAGH
850	NAGWAN	HAZARIBAGH
851	CHURCHU	HAZARIBAGH
852	PUNDRI	HAZARIBAGH

POTENTIAL Hazaribagh\_Village\_Block



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853	JAGDISPUR	HAZARIBAGH
854	BARASI	HAZARIBAGH
855	DANDAI KALAN	HAZARIBAGH
856	GAINDI	HAZARIBAGH
857	MERKURI KHURD	HAZARIBAGH
858	ANDHARU	HAZARIBAGH
859	MANDARI KHURD	HAZARIBAGH
860	MARAI KALAN OR OKNI	HAZARIBAGH
861	KOLGHATI NO. I	HAZARIBAGH
862	KOLGHATI NO. II	HAZARIBAGH
863	NAWDIHA	HAZARIBAGH
864	MERAWAL	HAZARIBAGH
865	SENDUR	HAZARIBAGH
866	NAWDIHA	HAZARIBAGH
867	SARLE	HAZARIBAGH
868	NURA	HAZARIBAGH
869	CHAPAR	HAZARIBAGH
870	NAWADA	HAZARIBAGH
871	MATWARI	HAZARIBAGH
872	HAZARI	HAZARIBAGH
873	HAZARIBAGH	HAZARIBAGH
874	NAWADA	HAZARIBAGH
875	KHIRGAON	HAZARIBAGH
876	GHOUTOLI	HAZARIBAGH
877	HURHURU	HAZARIBAGH
878	KORRA	HAZARIBAGH
879	CHANO NO.1	HAZARIBAGH
880	LAKH	HAZARIBAGH
881	CHANO NO.2	HAZARIBAGH
882	JABRA	HAZARIBAGH
883	KARBE KHURD	HAZARIBAGH
884	MANJHLIKARBE	HAZARIBAGH
885	KARBE KALAN	HAZARIBAGH
886	BIRBIR	HAZARIBAGH
887	SINGHANI	HAZARIBAGH
888	OREYA	HAZARIBAGH
889	BAHARI	HAZARIBAGH
890	BAHIRI NO.II	HAZARIBAGH
891	SAKHEA	HAZARIBAGH
892	BELAMURWAR	HAZARIBAGH
893	KANIMURWAR	HAZARIBAGH
894	ROLA	HAZARIBAGH
895	JULJUL	HAZARIBAGH
896	DUGLA	HAZARIBAGH
897	SEOTAGARHA	HAZARIBAGH
898	GURUWA	HAZARIBAGH
899	MASIPIRHI	HAZARIBAGH
900	NAYAKHAP	HAZARIBAGH
901	BAMHANBAI	HAZARIBAGH
902	BOCHO	HAZARIBAGH
903	BAMHNI	HAZARIBAGH
904	SALAIYA	HAZARIBAGH
905	BHELWARA	HAZARIBAGH
906	CHAPWA	HAZARIBAGH
907	HARHAD	HAZARIBAGH
908	HUPAD	HAZARIBAGH
909	DUNORESAM	HAZARIBAGH
910	DEMBU	HAZARIBAGH
911	TUMBA	HAZARIBAGH
912	MORANGI	HAZARIBAGH
913	HATHIGAON	HAZARIBAGH



POTENTIAL Hazaribagh\_Village\_Block

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914	TURAON	HAZARIBAGH
915	PAUTA	HAZARIBAGH
916	BARASI	HAZARIBAGH
917	PUNDRI	HAZARIBAGH
918	CHEHLA	HAZARIBAGH
919	MARHETA	HAZARIBAGH
920	BAHORANPUR	HAZARIBAGH
921	CHANDWAR	HAZARIBAGH
922	REWAR	HAZARIBAGH
923	NETO	HAZARIBAGH
924	GURHET	HAZARIBAGH
925	CHALCHALAI	HAZARIBAGH
926	CHORHETA	HAZARIBAGH
927	DARIGHAGHAR	ICHAK
928	GARDIH	ICHAK
929	PURANPANIA	ICHAK
930	SIMRATARI	ICHAK
931	KARAMTANR	ICHAK
932	BABHNI	ICHAK
933	UJRAHI DIGHI	ICHAK
934	DIGHIBASTI	ICHAK
935	MARPA	ICHAK
936	ARA	ICHAK
937	PHUPHUNDI	ICHAK
938	KALADAWAR	ICHAK
939	SEAL KALAN	ICHAK
940	MANAI	ICHAK
941	SEAL KHURD	ICHAK
942	HASEL	ICHAK
943	RATANPUR	ICHAK
944	THEPAI	ICHAK
945	AMBATANR	ICHAK
946	DOI	ICHAK
947	NARANGA POKHARIA	ICHAK
948	DARHA	ICHAK
949	KURTHIA	ICHAK
950	BANSI NAGAR	ICHAK
951	LUNDRU	ICHAK
952	DEKULI	ICHAK
953	TURI	ICHAK
954	JAGRA	ICHAK
955	JAGIDIH	ICHAK
956	DARIA	ICHAK
957	BARKA KHURD	ICHAK
958	LONHRI	ICHAK
959	URKA	ICHAK
960	MOKTAMA	ICHAK
961	PHURUKA	ICHAK
962	MANGURA	ICHAK
963	BHAGWABANPUR	ICHAK
964	ALAUNJA KALAN	ICHAK
965	KARI	ICHAK
966	MADANPUR	ICHAK
967	KUTEJ	ICHAK
968	DHARMU	ICHAK
969	KARIADPUR	ICHAK
970	CHANDA	ICHAK
971	ASIA	ICHAK
972	NAOKHAP	ICHAK
973	ALAUNJA KHURD	ICHAK
974	PAKAHI	ICHAK

POTENTIAL Hazaribagh\_Village\_Block



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975	JALAUNDH	ICHAK
976	ASALWAR	ICHAK
977	KURHA	ICHAK
978	BARWA	ICHAK
979	GUNJA	ICHAK
980	SIMRA	ICHAK
981	KARIMATI	ICHAK
982	TEPSA	ICHAK
983	BHUSAI	ICHAK
984	GIRHI	ICHAK
985	CHHAONI	ICHAK
986	KUTUMSUKURI	ICHAK
987	PRNAICHAK ALIAS PURNADIH	ICHAK
988	BANDUA	ICHAK
989	TETARIA	ICHAK
990	CHANDWARA	ICHAK
991	DHARMU	ICHAK
992	CHAPRAKH	ICHAK
993	SARAM	ICHAK
994	BONGA	ICHAK
995	SIRSI	ICHAK
996	BARIAT	ICHAK
997	DHAWAIA	ICHAK
998	GOBARBANDHA	ICHAK
999	RUD	ICHAK
1000	PARASI	ICHAK
1001	KHARRE	ICHAK
1002	KHUTRA	ICHAK
1003	BARKA KALAN	ICHAK
1004	HADARI	ICHAK
1005	DUMRAUN	ICHAK
1006	GURKUA	ICHAK
1007	FULDAHA	ICHAK
1008	BHUSWA	ICHAK
1009	TILRA	ICHAK
1010	KOATU	ICHAK
1011	KOIWADI	ICHAK
1012	CHAMPANAGAR NAWADIH	ICHAK
1013	DUMRI	ICHAK
1014	RAHEA	ICHAK
1015	NATHWA	ICHAK
1016	KAILE	ICHAK
1017	DANGI	ICHAK
1018	POHKARIA	ICHAK
1019	SIJHUA	ICHAK
1020	LOTWA	ICHAK
1021	PARASI RAJGHAT	ICHAK
1022	PANDRA	ICHAK
1023	DHAUTWA	KATKAMCANDI
1024	MANAR	KATKAMCANDI
1025	MARIGARA	KATKAMCANDI
1026	KONHAR	KATKAMCANDI
1027	TORAR	KATKAMCANDI
1028	AMJHAR	KATKAMCANDI
1029	BACHRA	KATKAMCANDI
1030	LAWA KUDAR	KATKAMCANDI
1031	ARABHUSAI	KATKAMCANDI
1032	MAUHGAIN	KATKAMCANDI
1033	DONRWA	KATKAMCANDI
1034	SHAHAPUR	KATKAMCANDI
1035	BANJHIA	KATKAMCANDI



POTENTIAL Hazaribagh\_Village\_Block

13

1036	GURI	KATKAMCANDI
1037	JHARDAG	KATKAMCANDI
1038	DAHURI	KATKAMCANDI
1039	BARIKOLA JHONJH	KATKAMCANDI
1040	NAWA KHAP	KATKAMCANDI
1041	KURHAGADA	KATKAMCANDI
1042	BALIA	KATKAMCANDI
1043	RAIBAR	KATKAMCANDI
1044	HOREYA	KATKAMCANDI
1045	GURUDIH	KATKAMCANDI
1046	DANTO KHURD	KATKAMCANDI
1047	KUD	KATKAMCANDI
1048	DANTO KALAN	KATKAMCANDI
1049	KATHOUTIA	KATKAMCANDI
1050	CHIRUA	KATKAMCANDI
1051	HESA KUDAR	KATKAMCANDI
1052	EDLA	KATKAMCANDI
1053	BAJHA	KATKAMCANDI
1054	SAKARJA	KATKAMCANDI
1055	DUMRI	KATKAMCANDI
1056	URIDIRI	KATKAMCANDI
1057	KHARIKA	KATKAMCANDI
1058	NACHLE	KATKAMCANDI
1059	BOROGARA	KATKAMCANDI
1060	KATKAMSANDI	KATKAMCANDI
1061	ULANJ	KATKAMCANDI
1062	PIPRA	KATKAMCANDI
1063	PUNDBORU	KATKAMCANDI
1064	JOLHADIHA	KATKAMCANDI
1065	LAKHNU	KATKAMCANDI
1066	HATKAUNA	KATKAMCANDI
1067	HARHAD	KATKAMCANDI
1068	DANR	KATKAMCANDI
1069	PICHRI	KATKAMCANDI
1070	SARUGARU KALAN	KATKAMCANDI
1071	SARUGARU KHURD	KATKAMCANDI
1072	SARUGARU KHURD	KATKAMCANDI
1073	GOSI	KATKAMCANDI
1074	KUMHIATANR	KATKAMCANDI
1075	BAHIMAR	KATKAMCANDI
1076	BARGARA	KATKAMCANDI
1077	BIKRAMA	KATKAMCANDI
1078	PABRA	KATKAMCANDI
1079	KHUTRA	KATKAMCANDI
1080	DHARHARA	KATKAMCANDI
1081	SULMI	KATKAMCANDI
1082	LUPUNG	KATKAMCANDI
1083	DUKRA	KATKAMCANDI
1084	MAYAPUR	KATKAMCANDI
1085	BARTUA	KATKAMCANDI
1086	ASDHIR	KATKAMCANDI
1087	JALIMA	KATKAMCANDI
1088	HARINA	KATKAMCANDI
1089	ALADIHA	KATKAMCANDI
1090	ROMI	KATKAMCANDI
1091	CHHARWA	KATKAMCANDI
1092	ATIA	KATKAMCANDI
1093	GODOKHAR	KATKAMCANDI
1094	KACHANPUR	KATKAMCANDI
1095	GOBINDPUR	KATKAMCANDI
1096	KANRRAR	KATKAMCANDI

POTENTIAL Hazaribagh\_Village\_Block



13

1097	NAWADA	KATKAMCANDI
1098	LUNRI	KATKAMCANDI
1099	BELARGARA	KATKAMCANDI
1100	KISUNAWA	KATKAMCANDI
1101	PALWA (CT)	KATKAMCANDI
1102	CHOTHA	KATKAMCANDI
1103	HEDLAG	KATKAMDAG
1104	CHIRUA	KATKAMDAG
1105	PAKRAR	KATKAMDAG
1106	CHEPI	KATKAMDAG
1107	SADAMPUR	KATKAMDAG
1108	MEYATU	KATKAMDAG
1109	HOTHAMERHI	KATKAMDAG
1110	NAWADIH	KATKAMDAG
1111	LUTA	KATKAMDAG
1112	BALIAND	KATKAMDAG
1113	KADMA KHURD	KATKAMDAG
1114	KASTURI KHAP	KATKAMDAG
1115	KADMA NO. II	KATKAMDAG
1116	SALGAON	KATKAMDAG
1117	BANADAG	KATKAMDAG
1118	PASAI	KATKAMDAG
1119	MASRATU	KATKAMDAG
1120	REWALI	KATKAMDAG
1121	KUD NO.II	KATKAMDAG
1122	KUD	KATKAMDAG
1123	DAMUDIHI	KATKAMDAG
1124	SIRSI NO. II	KATKAMDAG
1125	KHAPRTAON	KATKAMDAG
1126	NAWADA	KATKAMDAG
1127	DHENGURA	KATKAMDAG
1128	PARHERIA	KATKAMDAG
1129	SALGA	KATKAMDAG
1130	KATKAMDAG	KATKAMDAG
1131	BANKA	KATKAMDAG
1132	ARRA	KATKAMDAG
1133	BENDI	KATKAMDAG
1134	UDAIPUR	KATKAMDAG
1135	KUBA	KATKAMDAG
1136	CHICHI	KATKAMDAG
1137	KUSUMBHA	KATKAMDAG
1138	DARHA	KATKAMDAG
1139	SIRKA	KATKAMDAG
1140	SISOI	KATKAMDAG
1141	MARHAND	KATKAMDAG
1142	BES	KATKAMDAG
1143	PUNDRI	KATKAMDAG
1144	PHATHA	KATKAMDAG
1145	HARUDAG	KATKAMDAG
1146	RAJHAR	KATKAMDAG
1147	ODAMA	KATKAMDAG
1148	JAMUARI	KATKAMDAG
1149	HARAM	KATKAMDAG
1150	SULTANA	KATKAMDAG
1151	SIMARIYA	KATKAMDAG
1152	BUKRU	KEREDARI
1153	LOHRA	KEREDARI
1154	BAKCHOMA	KEREDARI
1155	GOPDA	KEREDARI
1156	PORRA	KEREDARI
1157	DUMRI	KEREDARI

POTENTIAL Hazaribagh\_Village\_Block



*[Handwritten signature]*

1158	PHUSRI	KEREDARI
1159	MANATU	KEREDARI
1160	MASURIYA	KEREDARI
1161	KAJEA	KEREDARI
1162	LAJDAG	KEREDARI
1163	JABRA	KEREDARI
1164	KANDABER	KEREDARI
1165	NAWADIH	KEREDARI
1166	BASARIA	KEREDARI
1167	SIRMA	KEREDARI
1168	BELTU	KEREDARI
1169	BAREATU	KEREDARI
1170	DEORIA KHURD	KEREDARI
1171	DEORIA KALAN	KEREDARI
1172	PANDEPURA KHURD	KEREDARI
1173	PANDEPURA KALAN	KEREDARI
1174	GARRI KHURD	KEREDARI
1175	PATRA KHURD	KEREDARI
1176	HESLA	KEREDARI
1177	JAMIRA	KEREDARI
1178	UPHRAUL	KEREDARI
1179	PAHRA	KEREDARI
1180	PANDEKULI	KEREDARI
1181	KENCHI	KEREDARI
1182	HEWAI	KEREDARI
1183	BENGWARI	KEREDARI
1184	TARHESA	KEREDARI
1185	BALEDEORI	KEREDARI
1186	BASARIA	KEREDARI
1187	HARILA	KEREDARI
1188	PANDU	KEREDARI
1189	TUNDA	KEREDARI
1190	BALIA	KEREDARI
1191	KABED	KEREDARI
1192	PAGAR	KEREDARI
1193	CHATTI BARIATU	KEREDARI
1194	NAWA KHAP	KEREDARI
1195	PACHANRA	KEREDARI
1196	SEJHUA	KEREDARI
1197	KODWE	KEREDARI
1198	LOCHAR	KEREDARI
1199	PATRA KALAN	KEREDARI
1200	KEREDARI	KEREDARI
1201	KHAPIA	KEREDARI
1202	JAMIRA	KEREDARI
1203	KHAPIA	KEREDARI
1204	OME	KEREDARI
1205	JORDAG	KEREDARI
1206	LOISUKWAR	KEREDARI
1207	BHADAIKHAP	KEREDARI
1208	KARALI	KEREDARI
1209	KEMO	KEREDARI
1210	JOKA	KEREDARI
1211	KUTHAN	KEREDARI
1212	SAYAL	KEREDARI
1213	SALGA	KEREDARI
1214	SIROIYA	KEREDARI
1215	CHETAR	KEREDARI
1216	BARKAGAON RF	KEREDARI
1217	GHUTU	KEREDARI
1218	BARKAGAON RF	KEREDARI

POTENTIAL Hazaribagh\_Village\_Block



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1219	NIRI	KEREDARI
1220	KHAPIA	KEREDARI
1221	BATUKA	KEREDARI
1222	BUNDU	KEREDARI
1223	KIRIGARA	KEREDARI
1224	KORLE	KEREDARI
1225	LOHARSA	KEREDARI
1226	PATAL	KEREDARI
1227	BUCHADIH	KEREDARI
1228	HENDEGIR	KEREDARI
1229	ITIJ	KEREDARI
1230	GARRI KALAN	KEREDARI
1231	PETO	KEREDARI
1232	KADMA NO.1	Level 3
1233	TILAIYA	Level 3
1234	PINDARKON	PADMA
1235	BHANDRA	PADMA
1236	KARAR	PADMA
1237	GOTEA	PADMA
1238	SIMARKURHA	PADMA
1239	NACHANWE	PADMA
1240	KEOLA	PADMA
1241	BARDEWA	PADMA
1242	GARU KURHA	PADMA
1243	SARAIA	PADMA
1244	GARWA	PADMA
1245	KOIRIADIH	PADMA
1246	NAWADIH KALAN	PADMA
1247	KUTIPISI	PADMA
1248	MUNGARMAO	PADMA
1249	DONAI KHURD	PADMA
1250	BANDARBELA	PADMA
1251	PADMA	PADMA
1252	LATI	PADMA
1253	KANDADAG	PADMA
1254	PARTAN	PADMA
1255	KARMATANR	PADMA
1256	ROMI	PADMA
1257	CHAMPADIH	PADMA
1258	SURAJPURA	PADMA
1259	TILAIYIH	PADMA
1260	ARAR	PADMA
1261	JIHU	PADMA
1262	DONAI KALAN	PADMA
1263	MAHKOLA	PADMA
1264	HARAMBAR	PADMA
1265	BASAI	PADMA
1266	GHANTO	PADMA
1267	BIHARI	PADMA
1268	SUJI	PADMA
1269	NAWADIH	PADMA
1270	KARMA	PADMA
1271	NARSINGHWA	PADMA
1272	MAJHGANWA	PADMA
1273	ROL	PADMA
1274	SONPURA	PADMA
1275	BARGAON	PADMA
1276	BUNDU	PADMA
1277	TILIR	PADMA
1278	CHENGRA	TATIJHARIA
1279	KARMA	TATIJHARIA



POTENTIAL Hazaribagh\_Village\_Block

*B*

1280	SENHDA	TATIJHARIA
1281	KHAIRA	TATIJHARIA
1282	SIMRADHAB ALIAS PUTO	TATIJHARIA
1283	PANIMAKO	TATIJHARIA
1284	BERMAKA	TATIJHARIA
1285	NARAINPUR	TATIJHARIA
1286	LODHI	TATIJHARIA
1287	JHARPO	TATIJHARIA
1288	BHARAJO	TATIJHARIA
1289	AMNORI	TATIJHARIA
1290	GHUGHULLA	TATIJHARIA
1291	KESRA	TATIJHARIA
1292	GODHEA	TATIJHARIA
1293	HATWE	TATIJHARIA
1294	AINTHA	TATIJHARIA
1295	DAHARBHANGA	TATIJHARIA
1296	PANRRA	TATIJHARIA
1297	SADARO	TATIJHARIA
1298	KHAPIA	TATIJHARIA
1299	TATI	TATIJHARIA
1300	BISAI	TATIJHARIA
1301	MURUMATU	TATIJHARIA
1302	JHARIA	TATIJHARIA
1303	BAUDHA	TATIJHARIA
1304	BERHO	TATIJHARIA
1305	HALANG	TATIJHARIA
1306	HARLI	TATIJHARIA
1307	DUNGO	TATIJHARIA
1308	BARHE	TATIJHARIA
1309	KESODIH	TATIJHARIA
1310	SIJU	TATIJHARIA
1311	CHURCHU	TATIJHARIA
1312	KHARKA	TATIJHARIA
1313	DUDHMANIA	TATIJHARIA
1314	KHAMWA	TATIJHARIA
1315	BANDI	TATIJHARIA
1316	CHIRUWAN	TATIJHARIA
1317	BANSI	TATIJHARIA
1318	MARPA	TATIJHARIA
1319	DHARAMPUR	TATIJHARIA
1320	CHECHAKI	TATIJHARIA
1321	JARUADIH	TATIJHARIA
1322	DUMAR	TATIJHARIA
1323	KOLHU	TATIJHARIA
1324	MAYAPUR	TATIJHARIA
1325	BARHAMORIA	TATIJHARIA
1326	RAMJITI	TATIJHARIA
1327	BERAM	TATIJHARIA
1328	PALMO	TATIJHARIA
1329	MURKO	TATIJHARIA
1330	BERAM	TATIJHARIA
1331	CHURKU	TATIJHARIA
1332	MANGAPATTA	TATIJHARIA
1333	PORTANGA	TATIJHARIA
1334	JOBHI	TATIJHARIA
1335	HATWAL	TATIJHARIA
1336	KHUTWAR	TATIJHARIA
1337	CHOCHO ALIAS SAWAR	TATIJHARIA



**Annexure-II**  
**Letter of SDM Committee**



18



झारखण्ड सरकार  
उपायुक्त-सह-जिला दण्डाधिकारी का कार्यालय, हजारीबाग।  
(खनन शाखा)


-: आदेश :-

सरकार के सचिव, खान एवं भूतत्व विभाग, झारखण्ड, राँची के पत्रांक 928/एम0, राँची, दिनांक 27.04.2023 एवं पत्रांक 1354/एम0, दिनांक 22.05.2023 में दिये गये निदेश के आलोक में हजारीबाग जिला हेतु लघु खनिजों (बालू छोड़कर) का DSR तैयार करने हेतु निम्न रूप से समिति का गठन किया जाता है :-


1. वन प्रमण्डल पदाधिकारी, पश्चिमी वन प्रमण्डल, हजारीबाग।
2. वन प्रमण्डल पदाधिकारी, पूर्वी वन प्रमण्डल, हजारीबाग।
3. वन प्रमण्डल पदाधिकारी, वन्य आश्रणी प्रमण्डल, हजारीबाग।
4. अनुमण्डल पदाधिकारी, सदर, हजारीबाग।
5. अनुमण्डल पदाधिकारी, बरही, हजारीबाग।
6. जिला खनन पदाधिकारी, हजारीबाग।
7. कार्यपालक अनियन्ता, लघु सिंचाई प्रमण्डल, हजारीबाग।
8. सहायक निदेशक, भूतत्व, जिला भूतात्विक कार्यालय, हजारीबाग।
9. क्षेत्रीय पदाधिकारी, झारखण्ड राज्य प्रदूषण नियंत्रण पर्यट, हजारीबाग।

उक्त समिति अदिलम्ब लघु खनिज (बालू छोड़कर) का DSR तैयार कर अघोहस्ताक्षरी के समक्ष उपस्थापित करेगी।

जिला खनन पदाधिकारी, हजारीबाग को उक्त समिति में संयोजक के रूप में कार्य करने हेतु नामित किया जाता है।

  
उपायुक्त,  
हजारीबाग।

क्रमांक : 803 / खनन, हजारीबाग, दिनांक : 22/06/2024  
प्रतिलिपि-सभी सदस्यों को सूचनाार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

  
उपायुक्त,  
हजारीबाग।



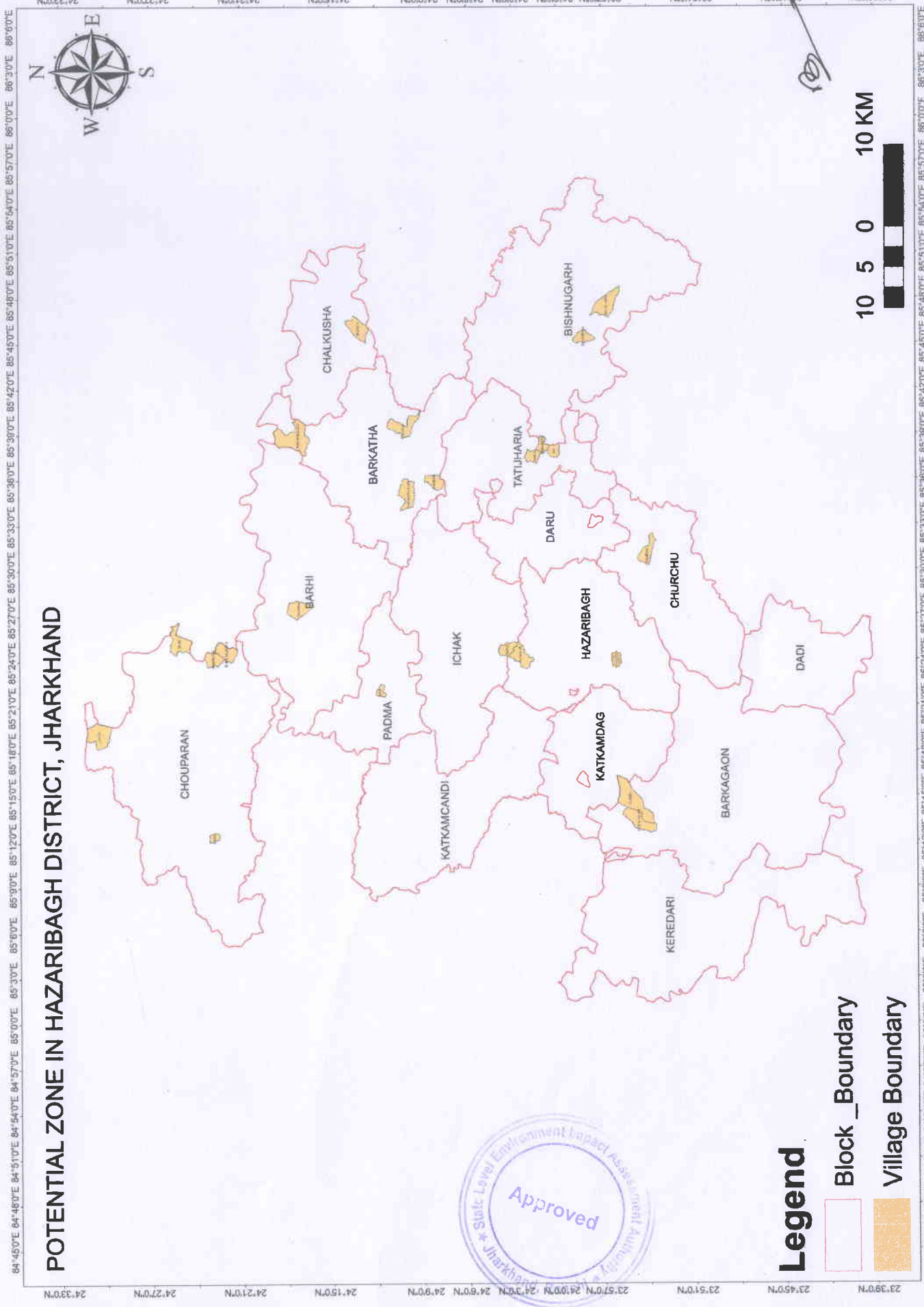


# Annexure-III

## Maps



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**POTENTIAL ZONE IN HAZARIBAGH DISTRICT, JHARKHAND**



**Legend**

- Block\_Boundary
- Village Boundary

10 5 0 10 KM



84°45'0"E 84°48'0"E 84°51'0"E 84°54'0"E 84°57'0"E 85°0'0"E 85°3'0"E 85°6'0"E 85°9'0"E 85°12'0"E 85°15'0"E 85°18'0"E 85°21'0"E 85°24'0"E 85°27'0"E 85°30'0"E 85°33'0"E 85°36'0"E 85°39'0"E 85°42'0"E 85°45'0"E 85°48'0"E 85°51'0"E 85°54'0"E 85°57'0"E 86°0'0"E 86°3'0"E 86°6'0"E

23°39'0"N 23°45'0"N 23°51'0"N 23°57'0"N 24°0'0"N 24°3'0"N 24°6'0"N 24°9'0"N 24°15'0"N 24°21'0"N 24°27'0"N 24°33'0"N

S.NO	VILLAGE	TEHSIL	DISTRICT	STATE
1	DHAB SALAUNIA	CHOUPARAN	HAZARIBAGH	JHARKHAND
2	BHATBIGHA	CHOUPARAN	HAZARIBAGH	JHARKHAND
3	BASARIA	BARHI	HAZARIBAGH	JHARKHAND
4	JUGRA	BARKAGAON	HAZARIBAGH	JHARKHAND
5	DUMARDIHA	BISHNUGARH	HAZARIBAGH	JHARKHAND
6	JAMUNIJARA	BISHNUGARH	HAZARIBAGH	JHARKHAND
7	LOHRA	CHOUPARAN	HAZARIBAGH	JHARKHAND
8	DHAB	CHOUPARAN	HAZARIBAGH	JHARKHAND
9	CHURCHU	HAZARIBAGH	HAZARIBAGH	JHARKHAND
10	MURUMATU	TATIJHARIA	HAZARIBAGH	JHARKHAND
11	CHEPA KALAN	BARKAGAON	HAZARIBAGH	JHARKHAND
12	SILADIH	BARKATHA	HAZARIBAGH	JHARKHAND
13	PASARIA	CHALKUSHA	HAZARIBAGH	JHARKHAND
14	BARKANGANGO	BARKATHA	HAZARIBAGH	JHARKHAND
15	DHOBARI	BARKATHA	HAZARIBAGH	JHARKHAND
16	KARMA	CHOUPARAN	HAZARIBAGH	JHARKHAND
17	BHELWARA	HAZARIBAGH	HAZARIBAGH	JHARKHAND
18	TEPSA	ICHAK	HAZARIBAGH	JHARKHAND
19	LATI	PADMA	HAZARIBAGH	JHARKHAND
20	TATI	TATIJHARIA	HAZARIBAGH	JHARKHAND
21	JHARIA	TATIJHARIA	HAZARIBAGH	JHARKHAND
22	KONHARAKALAN	BARKATHA	HAZARIBAGH	JHARKHAND
23	AASWA	BARKAGAON	HAZARIBAGH	JHARKHAND
24	HOLANG	TATIJHARIA	HAZARIBAGH	JHARKHAND
25	PUNDARI	SADAR	HAZARIBAGH	JHARKHAND
26	TARWA	SADAR	HAZARIBAGH	JHARKHAND
27	PANCHRUKHI TELAIIYA	BARKATHA	HAZARIBAGH	JHARKHAND
28	KANDADAG	PADMA	HAZARIBAGH	JHARKHAND
29	KUSUMBHA	BISHNUGARH	HAZARIBAGH	JHARKHAND
30	KURKUTTA	DADHI	HAZARIBAGH	JHARKHAND
31	DEVARIYA	DARU	HAZARIBAGH	JHARKHAND



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POTENTIAL VILLAGE DISTRICT-HAZARIBAGH JHARKHAND		
S.NO	VILLAGE	TEHSIL
1	BENDGI	BARHI
2	KOILI	BARHI
3	CHAKURA	BARHI
4	RASOIA DHAMNA	BARHI
5	PURHARA	BARHI
6	DUMARDIH	BARHI
7	BARHI (CT)	BARHI
8	UJAINA	BARHI
9	KATIAUN	BARHI
10	KHARAUN	BARHI
11	PORAIA	BARHI
12	KONRA (CT)	BARHI
13	NATHUAMARAN	BARHI
14	PADIRMA	BARHI
15	MADHOPUR	BARHI
16	KARIMATI	BARHI
17	CHACHRO	BARHI
18	SINGPUR ORAIA	BARHI
19	TILODIH	BARHI
20	KENDUA	BARHI
21	BUNDU	BARHI
22	MAJHGANWA	BARHI
23	KARMA	BARHI
24	TILAIA	BARHI
25	GOAS	BARHI
26	CHANDABIHA	BARHI
27	MAHUATANR	BARHI
28	BELA	BARHI
29	KARGAIO	BARHI
30	KANDAGHOHAR	BARHI
31	GURIO	BARHI
32	BODIAJAWAR	BARHI
33	CHITRAO	BARHI
34	KOLHUA KALAN	BARHI
35	DHOBIAPAHRI	BARHI
36	KOLHUA KHURD ALIAS JAWAR	BARHI
37	ALAGDIHA	BARHI
38	BHADEA	BARHI
39	BAHERABAD	BARHI
40	TETARIA BHANDARO	BARHI
41	BEJLADIH	BARHI
42	CHILODIH	BARHI
43	BHANDARO	BARHI
44	BALAURI	BARHI
45	PURHARA	BARHI
46	BAIRISAL	BARHI
47	MURLIKATIA	BARHI
48	HATHGADA	BARHI
49	GARJAMU	BARHI
50	MADANPUR	BARHI
51	KHURDJAWAR	BARHI
52	DAPOKH	BARHI
53	BALIDIH	BARHI
54	BIJAJA	BARHI
55	BELHARA	BARHI
56	HALMATA	BARHI
57	ORPARTA	BARHI
58	JOGIBANDH	BARHI
59	BAGHMARA	BARHI
60	PAHARPUR	BARHI



61	NAWADIH	BARHI
62	MALKOKO	BARHI
63	ROHANIA	BARHI
64	PADARIA	BARHI
65	BARIATHA	BARHI
66	CHUNDIAGAJUA	BARHI
67	BAKSHIDIH	BARHI
68	NAGARBARISOT	BARHI
69	KARIATPUR CHOTTI	BARHI
70	DUDHPANIA	BARHI
71	PIPRAGHOHGHAR	BARHI
72	DULMAHA	BARHI
73	MALIKIDIH	BARHI
74	DHUARGARGI ALIAS BISHUNPUR	BARHI
75	GOJO	BARHI
76	BASARIA	BARHI
77	LACHHUDIH	BARHI
78	HARILA	BARHI
79	KARSO	BARHI
80	JARAHIA	BARHI
81	KULANGA	BARHI
82	BAMHANDIH	BARHI
83	GARLAHI	BARHI
84	SALON	BARHI
85	MAHUGARA	BARHI
86	CHALANGA	BARHI
87	RANICHUNWA	BARHI
88	KARHARIA	BARHI
89	PIPRATANR	BARHI
90	DHOBGHAT	BARHI
91	KUTMA	BARHI
92	JITPUR	BARHI
93	SINGHPUR KALAN	BARHI
94	CHORGARHA	BARHI
95	SINGHPUR KHURD	BARHI
96	DHANWAR	BARHI
97	ARAGARA	BARHI
98	KEWAL	BARHI
99	LATHIA	BARHI
100	BARDAG	BARHI
101	GAMHARIA	BARHI
102	JABARIA	BARHI
103	HUTUWA	BARHI
104	RALO	BARHI
105	DAURWA	BARHI
106	KUNRWA	BARHI
107	KADWA	BARHI
108	KHONRA AHAR	BARHI
109	KOHUDAG	BARHI
110	GHIAHI	BARHI
111	MAHUA PARA	BARHI
112	ARADIRI	BARHI
113	BANGANWA	BARHI
114	KEDORAT	BARHI
115	DEOCHANDA	BARHI
116	KAJRA	BARHI
117	GAURIA KARMA	BARHI
118	BITKIA	BARHI
119	CHATRO	BARHI
120	BELADOHAR	BARHI
121	DHAMLI	BARHI
122	LAKHNA	BARHI



123	HUDUA	BARKAGAON
124	GUGRA	BARKAGAON
125	CHEPA KALAN	BARKAGAON
126	ARAHARA	BARKAGAON
127	PAKRI BARWADIH	BARKAGAON
128	CHEPA KHURD	BARKAGAON
129	DARIKALAN	BARKAGAON
130	SINDUARI	BARKAGAON
131	CHIRUDIH	BARKAGAON
132	NAGRI	BARKAGAON
133	URULE	BARKAGAON
134	CHURCHU	BARKAGAON
135	SONBARSA	BARKAGAON
136	KERI	BARKAGAON
137	LANGATU	BARKAGAON
138	SIKRI	BARKAGAON
139	PANDARIA	BARKAGAON
140	SIRMA	BARKAGAON
141	KANRTARI	BARKAGAON
142	DHENGA	BARKAGAON
143	SANRH	BARKAGAON
144	CHANDAUL	BARKAGAON
145	PANDUAL	BARKAGAON
146	MARDU	BARKAGAON
147	BABU BALIA	BARKAGAON
148	MAHUGAIN KALAN	BARKAGAON
149	MAHUGAIN KHURD	BARKAGAON
150	DAMODAR	BARKAGAON
151	SUKUL KHAPIA	BARKAGAON
152	MOTRA	BARKAGAON
153	AMMBAJIT	BARKAGAON
154	PHULANG	BARKAGAON
155	HORAM SIBADIH	BARKAGAON
156	BHADULI PIPRADIH	BARKAGAON
157	HAHE	BARKAGAON
158	BALODAR	BARKAGAON
159	JORAKATH	BARKAGAON
160	GALI	BARKAGAON
161	RUDI	BARKAGAON
162	RAUTPARA	BARKAGAON
163	KUTULUA	BARKAGAON
164	DAMBADIH	BARKAGAON
165	GONDALPURA	BARKAGAON
166	BADAM	BARKAGAON
167	HARLI	BARKAGAON
168	NOPO KALAN	BARKAGAON
169	KHARANTI	BARKAGAON
170	GOSAIN BALIA	BARKAGAON
171	CHOB DAR BALIA	BARKAGAON
172	ISKO	BARKAGAON
173	CHAPRI	BARKAGAON
174	SAHEDA	BARKAGAON
175	KOUNSI	BARKAGAON
176	LURUNGA	BARKAGAON
177	BARWANIA	BARKAGAON
178	NOPO KHURD	BARKAGAON
179	MALDIH	BARKAGAON
180	NAWATANR	BARKAGAON
181	BISRAMPUR	BARKAGAON
182	SAKRI	BARKAGAON
183	SONPURA	BARKAGAON
184	MIRZAPUR	BARKAGAON



185	MAHUDI	BARKAGAON
186	TALASWAR	BARKAGAON
187	KOELANG	BARKAGAON
188	PALANDU	BARKAGAON
189	KUNDRU	BARKAGAON
190	PATRA	BARKAGAON
191	BARTUA	BARKAGAON
192	SOHADI	BARKAGAON
193	PACHANDA	BARKAGAON
194	UREJ	BARKAGAON
195	DEOGARH	BARKAGAON
196	ANGO	BARKAGAON
197	ASWA	BARKAGAON
198	BARKAGAON	BARKAGAON
199	CHANO	BARKAGAON
200	RONHE ALIAS PASERIA	BARKAGAON
201	POTANGA	BARKAGAON
202	JARJARA	BARKAGAON
203	URIMARI	BARKAGAON
204	GARSULA	BARKAGAON
205	LAKURA	BARKAGAON
206	BEFBELTAUL	BARKAGAON
207	DAMOHANI NIMATANR	BARKATHA
208	BEROGAIN	BARKATHA
209	JHWHAOHRA	BARKATHA
210	CHHUTHARI KATIA	BARKATHA
211	BARKANGANGO	BARKATHA
212	SIMRIASIRMATDIH	BARKATHA
213	BANPURA	BARKATHA
214	CHUGLAMO	BARKATHA
215	BASRAMO	BARKATHA
216	CHHAHARIAON	BARKATHA
217	KENDUA	BARKATHA
218	TURUKBAD	BARKATHA
219	GAIRA	BARKATHA
220	BEROKHURD	BARKATHA
221	KURCHUNO	BARKATHA
222	CHANDGARH	BARKATHA
223	LOKEA	BARKATHA
224	BUCHAI PATHAURIA	BARKATHA
225	KHAIRA	BARKATHA
226	BURHIADIIH	BARKATHA
227	NAITANR	BARKATHA
228	KAPKA	BARKATHA
229	DHORHIA	BARKATHA
230	KIMANIA	BARKATHA
231	GANGPACHO	BARKATHA
232	KALHABER	BARKATHA
233	JHINGIBARAI	BARKATHA
234	GAIPAHARI	BARKATHA
235	PESRA	BARKATHA
236	ALPITO	BARKATHA
237	GUNJRA	BARKATHA
238	GANGTIAHI	BARKATHA
239	JHURJHURI	BARKATHA
240	GHANGRI	BARKATHA
241	MERAMGARAH	BARKATHA
242	SIJHUA	BARKATHA
243	UPRAILDEBO	BARKATHA
244	HETHLI DEBO	BARKATHA
245	TILAIA PAEHRUKHI	BARKATHA
246	RAUSA	BARKATHA



247	CHOTHA	BARKATHA
248	CHEEHKAPDI	BARKATHA
249	KUNHARA KALAN	BARKATHA
250	KUMARDIHA	BARKATHA
251	KAWALU	BARKATHA
252	SONRKHAP	BARKATHA
253	KHARJO	BARKATHA
254	KUNHARA KHURD	BARKATHA
255	SALAI	BARKATHA
256	BARAHKATHA	BARKATHA
257	BARWAN	BARKATHA
258	BASARIA	BARKATHA
259	MASIPIRHI	BARKATHA
260	TUJO	BARKATHA
261	SAKREJ	BARKATHA
262	PIPRAHI	BARKATHA
263	DHOBARI	BARKATHA
264	DUMARDIHA	BARKATHA
265	TURUKDIHA	BARKATHA
266	JAWAR PAHARPUR	BARKATHA
267	GORHAR	BARKATHA
268	LEMUA	BARKATHA
269	TETARIA	BARKATHA
270	SURUJ KHURD	BARKATHA
271	NAWADIHA	BARKATHA
272	CHAMUDAHAR	BARKATHA
273	BARADIH	BARKATHA
274	PARBATA	BARKATHA
275	LAGANWA	BARKATHA
276	SILADIH	BARKATHA
277	BANWARI	BARKATHA
278	LEORA	BARKATHA
279	JAMUA	BARKATHA
280	GAIPAHARI	BARKATHA
281	MADHUBAN	BARKATHA
282	KENDUA	BARKATHA
283	BERO KALAN ALIAS BERO	BARKATHA
284	PANDNA	BARKATHA
285	MADHOPUR	BARKATHA
286	DODHARA	BARKATHA
287	BELKAPI	BARKATHA
288	KOSO	BARKATHA
289	DHARHARA	BARKATHA
290	KARICHATAN	BARKATHA
291	CHATKARI	BISHNUGARH
292	ALKHARI KALAN	BISHNUGARH
293	BHUNRERI	BISHNUGARH
294	GANRARBARA	BISHNUGARH
295	BARA	BISHNUGARH
296	BURHA CHANCH G.P	BISHNUGARH
297	CHALKARI KHURD	BISHNUGARH
298	CHALKARI KALAN	BISHNUGARH
299	SAULADIH	BISHNUGARH
300	KIRTODIH	BISHNUGARH
301	CHUKCHUKO	BISHNUGARH
302	BASARIA	BISHNUGARH
303	DONGO	BISHNUGARH
304	GAINRA	BISHNUGARH
305	BUKNA	BISHNUGARH
306	BERAHARIHARA	BISHNUGARH
307	KHAMA	BISHNUGARH
308	GOLGO	BISHNUGARH



309	URGI	BISHNUGARH
310	BHELWARA R.F.	BISHNUGARH
311	PANREJARIA	BISHNUGARH
312	NAWADIH	BISHNUGARH
313	CHALANGA	BISHNUGARH
314	BHULAHU MURGAON	BISHNUGARH
315	UPRAILI MURGAON	BISHNUGARH
316	HETHLI MURGAON	BISHNUGARH
317	CHITRAMU	BISHNUGARH
318	RAMUA	BISHNUGARH
319	TARABAD	BISHNUGARH
320	BADIKHAMA	BISHNUGARH
321	CHALNIA	BISHNUGARH
322	KATWAHI	BISHNUGARH
323	CHONTHA	BISHNUGARH
324	LEMBUA	BISHNUGARH
325	ALPITO	BISHNUGARH
326	NAWADIH	BISHNUGARH
327	ALKOPI	BISHNUGARH
328	BISHUNGARH	BISHNUGARH
329	TANDA	BISHNUGARH
330	DANDIA	BISHNUGARH
331	HETHLI BODRA	BISHNUGARH
332	SIMARIA	BISHNUGARH
333	GUNDRO	BISHNUGARH
334	BARAI	BISHNUGARH
335	JAMUA	BISHNUGARH
336	ALKHARI KHURD	BISHNUGARH
337	KHARKHUNDO	BISHNUGARH
338	TETARIA	BISHNUGARH
339	GOBINDPUR KALAN	BISHNUGARH
340	GOBINDPUR KHURD	BISHNUGARH
341	KHAMHARA	BISHNUGARH
342	JARIA MAHUTOLA	BISHNUGARH
343	BARHUMURIA	BISHNUGARH
344	DUMARDIHA	BISHNUGARH
345	GARMURGI	BISHNUGARH
346	PARSABERA	BISHNUGARH
347	MANGO MAHUATANR	BISHNUGARH
348	JAMUNIJARA	BISHNUGARH
349	LAHARIADIH	BISHNUGARH
350	TILAIYA	BISHNUGARH
351	ARJARI	BISHNUGARH
352	ALKILWA	BISHNUGARH
353	GAJHANDIH	BISHNUGARH
354	RANGAMATI	BISHNUGARH
355	PARASIA	BISHNUGARH
356	BAJA	BISHNUGARH
357	NARKI KHURD	BISHNUGARH
358	BARKI NARKI	BISHNUGARH
359	KHARKI	BISHNUGARH
360	JABAR	BISHNUGARH
361	KHARKATTO	BISHNUGARH
362	BANKHARO	BISHNUGARH
363	SALMANDRA	BISHNUGARH
364	NAGI	BISHNUGARH
365	UNCHAGHARA	BISHNUGARH
366	CHIRUDIHI	BISHNUGARH
367	MARMO	BISHNUGARH
368	NAWADIH	BISHNUGARH
369	CHIHUTIA	BISHNUGARH
370	SARUKUDAR	BISHNUGARH



371	PHARACHANCH	BISHNUGARH
372	CHATANIA	BISHNUGARH
373	MANGRO	BISHNUGARH
374	CHANO	BISHNUGARH
375	UDALPERE OR THATHAIYATAN	BISHNUGARH
376	ACHALJAMU	BISHNUGARH
377	CHERRA	BISHNUGARH
378	KUSUMBHA	BISHNUGARH
379	BABUDIH	BISHNUGARH
380	CHAMAKHIA	BISHNUGARH
381	NAWADA	BISHNUGARH
382	NIRGHUNA	BISHNUGARH
383	BHALUA	BISHNUGARH
384	BILANDI	BISHNUGARH
385	BANASO	BISHNUGARH
386	LEDI	BISHNUGARH
387	MAYAPUR	BISHNUGARH
388	BAKASPURA	BISHNUGARH
389	BHENDAMURGI	BISHNUGARH
390	DUMDUMA	CHALKUSHA
391	RAGDIH	CHALKUSHA
392	KANDUA	CHALKUSHA
393	PANDNATANR	CHALKUSHA
394	MASANI	CHALKUSHA
395	CHALKARI	CHALKUSHA
396	KOLHUAKUDAR	CHALKUSHA
397	GHRBANDHA	CHALKUSHA
398	JARPA	CHALKUSHA
399	SALAI DIH	CHALKUSHA
400	PASARIA	CHALKUSHA
401	SUDAN	CHALKUSHA
402	CHANDANGUNDO	CHALKUSHA
403	MANGO	CHALKUSHA
404	CHALKUSA	CHALKUSHA
405	BARADIH	CHALKUSHA
406	GOPIDIH	CHALKUSHA
407	MAHUATANR	CHALKUSHA
408	GARGI	CHALKUSHA
409	KHIJURSOTA	CHALKUSHA
410	BARANO	CHALKUSHA
411	ALAGDIHA	CHALKUSHA
412	NARAINA	CHALKUSHA
413	DIGWAR	CHALKUSHA
414	MASKEDIH	CHALKUSHA
415	BARIAUN	CHALKUSHA
416	KATGHARA	CHALKUSHA
417	LARA	CHALKUSHA
418	KHARI	CHALKUSHA
419	MANOIA	CHALKUSHA
420	BANGAWAN	CHALKUSHA
421	PARATKOLA	CHALKUSHA
422	JAMOSTI	CHALKUSHA
423	DHOBIADIH	CHALKUSHA
424	KHARPOKA	CHALKUSHA
425	BHIKHANADIH	CHALKUSHA
426	DHARHAI	CHALKUSHA
427	BHIKHNADIH	CHALKUSHA
428	SEWATANR	CHALKUSHA
429	CHAUBE	CHALKUSHA
430	BIRMAKI	CHALKUSHA
431	KHARGO	CHALKUSHA
432	HADAHI	CHOUPARAN



433	LARAH	CHOUPARAN
434	DHAB SALAUNIA	CHOUPARAN
435	BHATBIGHA	CHOUPARAN
436	NAWADIH	CHOUPARAN
437	SELAHRA KALAN	CHOUPARAN
438	CHAK	CHOUPARAN
439	PARBHI	CHOUPARAN
440	PIPRADIH	CHOUPARAN
441	HAPWA	CHOUPARAN
442	PARTAPUR	CHOUPARAN
443	MAJHGAWAN	CHOUPARAN
444	PATHRA	CHOUPARAN
445	ASNABAD	CHOUPARAN
446	MADHOPUR	CHOUPARAN
447	CHAKUNDHA	CHOUPARAN
448	SAHJADIH	CHOUPARAN
449	BHAGWANPUR	CHOUPARAN
450	PETULA	CHOUPARAN
451	PANANAGHAT	CHOUPARAN
452	NAWAGARH	CHOUPARAN
453	GAIPAHERI	CHOUPARAN
454	ALAGDIHA	CHOUPARAN
455	DHAROBAD	CHOUPARAN
456	DARJI CHAK	CHOUPARAN
457	KOTIYADIH	CHOUPARAN
458	DEBO	CHOUPARAN
459	RAMPUR	CHOUPARAN
460	PIPRAKONI	CHOUPARAN
461	ROKTACHUAN	CHOUPARAN
462	GARKE	CHOUPARAN
463	LOHRA	CHOUPARAN
464	DUARI	CHOUPARAN
465	AMBATARI	CHOUPARAN
466	PARSATARI	CHOUPARAN
467	BHANDAR	CHOUPARAN
468	GHARSARI	CHOUPARAN
469	KAIRJHAR	CHOUPARAN
470	BHAGHAR	CHOUPARAN
471	KALAPAHAR	CHOUPARAN
472	MAISA KHAR	CHOUPARAN
473	BUKAR	CHOUPARAN
474	GARMORWA	CHOUPARAN
475	MALNUKHAR	CHOUPARAN
476	GHAGHRAIT	CHOUPARAN
477	KHAIRATANR	CHOUPARAN
478	PATHALGARWA	CHOUPARAN
479	KOTHODUMAR	CHOUPARAN
480	ARHI	CHOUPARAN
481	SANJHA	CHOUPARAN
482	CHORDAHA	CHOUPARAN
483	KENDUAHI alias DANUA	CHOUPARAN
484	SILODAR	CHOUPARAN
485	MURATIA KALAN	CHOUPARAN
486	KAFAR	CHOUPARAN
487	JUNGLE CHARAN DASS KENDUA	CHOUPARAN
488	AMRAUL	CHOUPARAN
489	MAJHAULIA	CHOUPARAN
490	BARDAKA	CHOUPARAN
491	GERUGHAT	CHOUPARAN
492	NEORI	CHOUPARAN
493	BIRANCHI CHAK	CHOUPARAN
494	KARMA	CHOUPARAN



495	LAKHAWAR	CHOUPARAN
496	KENDUA KHURD	CHOUPARAN
497	BANIA CHAK	CHOUPARAN
498	KABILASH	CHOUPARAN
499	BHADAN	CHOUPARAN
500	PAKARIA KHURD	CHOUPARAN
501	DAIHAR PAKARIA	CHOUPARAN
502	DAIHAR	CHOUPARAN
503	NIMA	CHOUPARAN
504	GURI KALAN	CHOUPARAN
505	KOISIARI	CHOUPARAN
506	LALKISHUM CHAK ICHAK	CHOUPARAN
507	HATHINDAR	CHOUPARAN
508	BIGHA	CHOUPARAN
509	SAHORA	CHOUPARAN
510	DHORIA	CHOUPARAN
511	SIKDA	CHOUPARAN
512	DURAGARA	CHOUPARAN
513	MURAINIA	CHOUPARAN
514	PATHAL GARA	CHOUPARAN
515	SAHIJANA	CHOUPARAN
516	MURINA	CHOUPARAN
517	BONGA	CHOUPARAN
518	UCHAHI	CHOUPARAN
519	SAWAIYA	CHOUPARAN
520	PARSAWAN	CHOUPARAN
521	BERHNI	CHOUPARAN
522	BERHNA	CHOUPARAN
523	BISHUNPUR	CHOUPARAN
524	MOTICHAK	CHOUPARAN
525	KADWARI	CHOUPARAN
526	JHANPA	CHOUPARAN
527	SINDUARI CHAK	CHOUPARAN
528	DANGURI	CHOUPARAN
529	KOLHUA	CHOUPARAN
530	BERBNABARA	CHOUPARAN
531	CHHATARPURA	CHOUPARAN
532	FAGIR CHAK	CHOUPARAN
533	SUJI	CHOUPARAN
534	DADDPUR	CHOUPARAN
535	HATHIA	CHOUPARAN
536	DHILWABAD	CHOUPARAN
537	CHAKRASAR	CHOUPARAN
538	BHOJPUR	CHOUPARAN
539	BHATWA CHAK	CHOUPARAN
540	CHAI KALAN	CHOUPARAN
541	CHAI KHURD	CHOUPARAN
542	DHAB	CHOUPARAN
543	BHUSANDIH	CHOUPARAN
544	AKRAHAWAN	CHOUPARAN
545	SWAIA SAHASPUR	CHOUPARAN
546	MORAINIA	CHOUPARAN
547	BELA	CHOUPARAN
548	MAKANPUR	CHOUPARAN
549	PACHMO	CHOUPARAN
550	JHALAKPUR	CHOUPARAN
551	BAIDA CHAK	CHOUPARAN
552	BELKHARA	CHOUPARAN
553	LOHANDI KHURD	CHOUPARAN
554	LARAIA	CHOUPARAN
555	BHADEL	CHOUPARAN
556	MADHGOPALI	CHOUPARAN



557	BIGHA	CHOUPARAN
558	KHARAHUWAN	CHOUPARAN
559	RUPIN	CHOUPARAN
560	TANRDIH	CHOUPARAN
561	RANJK	CHOUPARAN
562	GURUADIH	CHOUPARAN
563	MODI CHAK	CHOUPARAN
564	PAPRO	CHOUPARAN
565	KALWACHAK	CHOUPARAN
566	DOMADANDE	CHOUPARAN
567	CHAITHI	CHOUPARAN
568	CHAUPARAN	CHOUPARAN
569	TAJPUR	CHOUPARAN
570	MARHERI	CHOUPARAN
571	TETARIYA	CHOUPARAN
572	KARANJUA	CHOUPARAN
573	ASNACHUAN	CHOUPARAN
574	BAGESRITHAN	CHOUPARAN
575	KEWAL	CHOUPARAN
576	KUBRI	CHOUPARAN
577	SIJHUA	CHOUPARAN
578	BARA	CHOUPARAN
579	KENDUA	CHOUPARAN
580	DARJICHAK	CHOUPARAN
581	KARMA	CHOUPARAN
582	DOIYA	CHOUPARAN
583	BANGAWAN	CHOUPARAN
584	JOKAT	CHOUPARAN
585	TILAI	CHOUPARAN
586	MOHUDI	CHOUPARAN
587	CHAMRA CHAK	CHOUPARAN
588	CHAK	CHOUPARAN
589	BARA	CHOUPARAN
590	MANPUR	CHOUPARAN
591	NAGWAN	CHOUPARAN
592	GOSLA	CHOUPARAN
593	MANGARH	CHOUPARAN
594	SARDARPUR	CHOUPARAN
595	LAPSIA	CHOUPARAN
596	MAHUDAR ALIAS BHATBIGHA	CHOUPARAN
597	MACHLA	CHOUPARAN
598	KAKRAULA	CHOUPARAN
599	JIACHAK	CHOUPARAN
600	KEDLI KHURD	CHOUPARAN
601	KEDLI KALAN	CHOUPARAN
602	SIDHU CHAK	CHOUPARAN
603	BAJRAHI	CHOUPARAN
604	NARIAHI	CHOUPARAN
605	KESATH	CHOUPARAN
606	BAHERA	CHOUPARAN
607	MANGARH	CHOUPARAN
608	THUTHI	CHOUPARAN
609	LOHANDI KALAN	CHOUPARAN
610	CHACHROKH	CHOUPARAN
611	NAUDIHA	CHOUPARAN
612	KOILI KHURD	CHOUPARAN
613	KOILI KALAN	CHOUPARAN
614	KUTLU	CHOUPARAN
615	KENDUA	CHOUPARAN
616	PAWAI	CHOUPARAN
617	KAMALBAR	CHOUPARAN
618	BARHI CHAK	CHOUPARAN



619	ARPAGAR	CHOUPARAN
620	NARAINA	CHOUPARAN
621	JAGDISHPUR	CHOUPARAN
622	BARA	CHOUPARAN
623	MAYAPUR	CHOUPARAN
624	GANGA AHAR	CHOUPARAN
625	KEOLA	CHOUPARAN
626	BELA	CHOUPARAN
627	PIPRA	CHOUPARAN
628	HAZARI DHAMNA	CHOUPARAN
629	SINGHRAWAN	CHOUPARAN
630	TITHIN	CHOUPARAN
631	BACHHSI	CHOUPARAN
632	DUMRI	CHOUPARAN
633	CHAPRI KALAN	CHOUPARAN
634	BURHIA DABAR	CHOUPARAN
635	CHAPRI KHURD	CHOUPARAN
636	JAGODIH	CHOUPARAN
637	PARJABAD	CHOUPARAN
638	MAHUABAD	CHOUPARAN
639	KANHA CHAK	CHOUPARAN
640	PAKAR TANR	CHOUPARAN
641	BURHIA AHRI	CHOUPARAN
642	BARETAM	CHOUPARAN
643	KATHAMBA	CHOUPARAN
644	DHOBDA AHRI	CHOUPARAN
645	LALCHANDBADH ALIAS BARWADI	CHOUPARAN
646	GURUBARA	CHOUPARAN
647	PANDARIA	CHOUPARAN
648	BANAU	CHOUPARAN
649	AMJHAR	CHOUPARAN
650	BHAIAPATTI	CHOUPARAN
651	BASARIA	CHOUPARAN
652	KENDUA	CHOUPARAN
653	HATHIA	CHOUPARAN
654	BELAHI	CHOUPARAN
655	RATNAG	CHOUPARAN
656	PORO	CHOUPARAN
657	ARAIA	CHOUPARAN
658	AMBAJIT	CHOUPARAN
659	BARAHMORIA	CHOUPARAN
660	RAM CHAK	CHOUPARAN
661	SONPURA	CHOUPARAN
662	RATANPUR	CHOUPARAN
663	RAMJITA	CHOUPARAN
664	NAYAKHAP SIRMA	CHOUPARAN
665	PHULWARIA	CHOUPARAN
666	BANJHI	CHOUPARAN
667	PACHRUKHI	CHOUPARAN
668	KANTI	CHOUPARAN
669	MAHUAS	CHOUPARAN
670	SARDHAWATANR	CHOUPARAN
671	BIRINDA	CHOUPARAN
672	DOMAPAHARI	CHOUPARAN
673	NAWADIH	CHOUPARAN
674	BAGAHI	CHOUPARAN
675	RAMO	CHOUPARAN
676	TOIYA	CHOUPARAN
677	SELAHRA KHURD	CHOUPARAN
678	GOBINDPUR ALIAS GONDPUR	CHOUPARAN
679	SIMARIA	CHOUPARAN
680	CHAK	CHOUPARAN



681	OBRA	CHOUPARAN
682	LANGURA ALIAS BELATANR	CHOUPARAN
683	MALIKANA	CHOUPARAN
684	SEWAI	CHOUPARAN
685	BARWADIH	CHOUPARAN
686	KURHAWA	CHOUPARAN
687	MARGOJA	CHOUPARAN
688	NAWADA	CHOUPARAN
689	KAIRI PIPRAHI	CHOUPARAN
690	JUNGLE BARJA DASS KENDUA	CHOUPARAN
691	BENDAURA	CHOUPARAN
692	JAWANPUR	CHOUPARAN
693	INGUNIA	CHOUPARAN
694	BAHIMAR	CHOUPARAN
695	DHAB	CHOUPARAN
696	SINGHPUR	CHOUPARAN
697	NAWADIH	CHOUPARAN
698	KHURANDIH	CHURCHU
699	JAMDIHA	CHURCHU
700	LARA	CHURCHU
701	TASNALO	CHURCHU
702	SANRI	CHURCHU
703	BUZURG NANO	CHURCHU
704	DHAMANSARIA	CHURCHU
705	NAGRI CHURCHU	CHURCHU
706	RAHAMDAGA	CHURCHU
707	OREYA	CHURCHU
708	SARIO	CHURCHU
709	POTMO	CHURCHU
710	CHURCHU	CHURCHU
711	CHICHI KALAN	CHURCHU
712	CHICHIKHURD	CHURCHU
713	BELGARA	CHURCHU
714	JORDAG	CHURCHU
715	DUMAR	CHURCHU
716	BODRA	CHURCHU
717	BALI	CHURCHU
718	LOTHE	CHURCHU
719	GONDWAR	CHURCHU
720	KARGI	CHURCHU
721	LOSODIH	CHURCHU
722	PIPRA	CHURCHU
723	KAJRI	CHURCHU
724	BAHERA	CHURCHU
725	PHUSRI	CHURCHU
726	CHANARO	CHURCHU
727	CHARHI	CHURCHU
728	SARBAHA	CHURCHU
729	BANDA	CHURCHU
730	HARHAD	CHURCHU
731	KARU KHAP	CHURCHU
732	BANSADIH	CHURCHU
733	HENDEGARA	CHURCHU
734	INDRA	CHURCHU
735	JARWA	CHURCHU
736	MUKRU	CHURCHU
737	DASO KHAP	CHURCHU
738	ANGO	CHURCHU
739	NAGRI	CHURCHU
740	KURA	DADI
741	RIKBA	DADI
742	KHAPIA	DADI



743	HANHEMORHA	DADI
744	PADRANGI	DADI
745	HUANG	DADI
746	PINDRA	DADI
747	CHAINPUR	DADI
748	BALSOGRA	DADI
749	KODWE	DADI
750	BHURKUNDA	DADI
751	RABODH	DADI
752	KODWE	DADI
753	KANKI	DADI
754	SENAGARA	DADI
755	HUSIR	DADI
756	NAPO	DADI
757	HESALONG	DADI
758	TONGI	DADI
759	BANDU	DADI
760	BASARIA	DADI
761	SUIYADIH	DADI
762	BANSKUDRA	DADI
763	DARI (CT)	DADI
764	LUKUIYA	DADI
765	MISRAIN MORHA	DADI
766	KURKUTA	DADI
767	RELIGARA ALIAS PACHHIARI (CT)	DADI
768	GIDI (CT)	DADI
769	CHANO KHURD	DARU
770	JARGA	DARU
771	BASARIA	DARU
772	PUNAI	DARU
773	LONHRI KALAN	DARU
774	BALIA	DARU
775	SILADIH	DARU
776	GARISARAM	DARU
777	KABILASI	DARU
778	TIUJ	DARU
779	JAMUARI	DARU
780	JAMBUA	DARU
781	KANAUDI	DARU
782	CHORHET	DARU
783	GHAGHARA KHURD	DARU
784	AMLI	DARU
785	MERKURI KALAN	DARU
786	MUKTAMA	DARU
787	DEORIA	DARU
788	LORTANGO	DARU
789	UNCHABHERA	DARU
790	BASOBAR	DARU
791	PETO	DARU
792	DARU	DARU
793	PIPCHO	DARU
794	BHANRARBAR	DARU
795	CHIRUAN	DARU
796	IRGA	DARU
797	BARABAR	DARU
798	GEREA	DARU
799	RACHANGA	DARU
800	RAHAMDAGA	DARU
801	PURNINANO	DARU
802	AKAKUMBA	DARU
803	DIGWAR	DARU
804	TURIBAR	DARU



805	DARU KHARIKA	DARU
806	KARBAR	DARU
807	KAWALU	DARU
808	GOPLO	DARU
809	HARLI	DARU
810	KOEN	DARU
811	TILAIYA	DARU
812	JHUMRA	DARU
813	JONHEA	DARU
814	MAHESRA ALIAS MAHOSAR	DARU
815	JINGA	DARU
816	RAMDEO KHARIKA	DARU
817	TATGAWAN	DARU
818	SUARBANDA	DARU
819	KANJHIA	DARU
820	TARBA	HAZARIBAGH
821	KHARBA	HAZARIBAGH
822	PUNDRI	HAZARIBAGH
823	BANDUA	HAZARIBAGH
824	HUTPA	HAZARIBAGH
825	INDA	HAZARIBAGH
826	LAKHAIYA	HAZARIBAGH
827	CHAYA	HAZARIBAGH
828	BANAHAPA	HAZARIBAGH
829	MERU	HAZARIBAGH
830	DANDAI KHURD	HAZARIBAGH
831	AMNARI	HAZARIBAGH
832	SEKHA	HAZARIBAGH
833	TUTI	HAZARIBAGH
834	SILWAR KHURD	HAZARIBAGH
835	KESURA	HAZARIBAGH
836	AMBADIH	HAZARIBAGH
837	REHDA	HAZARIBAGH
838	DUMAR	HAZARIBAGH
839	SARAUNI KALAN	HAZARIBAGH
840	JITU	HAZARIBAGH
841	BARGHUTUWA	HAZARIBAGH
842	CHUTIARO	HAZARIBAGH
843	SARAUNI KHURD	HAZARIBAGH
844	SILWAR KALAN	HAZARIBAGH
845	KATGHARA	HAZARIBAGH
846	CHANO	HAZARIBAGH
847	DHAWAIYA	HAZARIBAGH
848	HUDAR	HAZARIBAGH
849	RAUTRA	HAZARIBAGH
850	NAGWAN	HAZARIBAGH
851	CHURCHU	HAZARIBAGH
852	PUNDRI	HAZARIBAGH
853	JAGDISPUR	HAZARIBAGH
854	BARASI	HAZARIBAGH
855	DANDAI KALAN	HAZARIBAGH
856	GAINDI	HAZARIBAGH
857	MERKURI KHURD	HAZARIBAGH
858	ANDHARU	HAZARIBAGH
859	MANDARI KHURD	HAZARIBAGH
860	MARAI KALAN OR OKNI	HAZARIBAGH
861	KOLGHATI NO. I	HAZARIBAGH
862	KOLGHATI NO. II	HAZARIBAGH
863	NAWDIHA	HAZARIBAGH
864	MERAWAL	HAZARIBAGH
865	SENDUR	HAZARIBAGH
866	NAWDIHA	HAZARIBAGH



867	SARLE	HAZARIBAGH
868	NURA	HAZARIBAGH
869	CHAPAR	HAZARIBAGH
870	NAWADA	HAZARIBAGH
871	MATWARI	HAZARIBAGH
872	HAZARI	HAZARIBAGH
873	HAZARIBAGH	HAZARIBAGH
874	NAWADA	HAZARIBAGH
875	KHIRGAON	HAZARIBAGH
876	GHOUTOLI	HAZARIBAGH
877	HURHURU	HAZARIBAGH
878	KORRA	HAZARIBAGH
879	CHANO NO.1	HAZARIBAGH
880	LAKH	HAZARIBAGH
881	CHANO NO.2	HAZARIBAGH
882	JABRA	HAZARIBAGH
883	KARBE KHURD	HAZARIBAGH
884	MANJHLIKARBE	HAZARIBAGH
885	KARBE KALAN	HAZARIBAGH
886	BIRBIR	HAZARIBAGH
887	SINGHANI	HAZARIBAGH
888	OREYA	HAZARIBAGH
889	BAHARI	HAZARIBAGH
890	BAHIRI NO.II	HAZARIBAGH
891	SAKHEA	HAZARIBAGH
892	BELAMURWAR	HAZARIBAGH
893	KANIMURWAR	HAZARIBAGH
894	ROLA	HAZARIBAGH
895	JULJUL	HAZARIBAGH
896	DUGLA	HAZARIBAGH
897	SEOTAGARHA	HAZARIBAGH
898	GURUWA	HAZARIBAGH
899	MASIPIRHI	HAZARIBAGH
900	NAYAKHAP	HAZARIBAGH
901	BAMHANBAI	HAZARIBAGH
902	BOCHO	HAZARIBAGH
903	BAMHNI	HAZARIBAGH
904	SALAIYA	HAZARIBAGH
905	BHELWARA	HAZARIBAGH
906	CHAPWA	HAZARIBAGH
907	HARHAD	HAZARIBAGH
908	HUPAD	HAZARIBAGH
909	DUNORESAM	HAZARIBAGH
910	DEMBU	HAZARIBAGH
911	TUMBA	HAZARIBAGH
912	MORANGI	HAZARIBAGH
913	HATHIGAON	HAZARIBAGH
914	TURAON	HAZARIBAGH
915	PAUTA	HAZARIBAGH
916	BARASI	HAZARIBAGH
917	PUNDRI	HAZARIBAGH
918	CHEHLA	HAZARIBAGH
919	MARHETA	HAZARIBAGH
920	BAHORANPUR	HAZARIBAGH
921	CHANDWAR	HAZARIBAGH
922	REWAR	HAZARIBAGH
923	NETO	HAZARIBAGH
924	GURHET	HAZARIBAGH
925	CHALCHALAI	HAZARIBAGH
926	CHORHETA	HAZARIBAGH
927	DARIGHAGHAR	ICHAK
928	GARDIH	ICHAK



929	PURANPANIA	ICHAK
930	SIMRATARI	ICHAK
931	KARAMTANR	ICHAK
932	BABHNI	ICHAK
933	UJRAHI DIGHI	ICHAK
934	DIGHIBASTI	ICHAK
935	MARPA	ICHAK
936	ARA	ICHAK
937	PHUPHUNDI	ICHAK
938	KALADAWAR	ICHAK
939	SEAL KALAN	ICHAK
940	MANAI	ICHAK
941	SEAL KHURD	ICHAK
942	HASEL	ICHAK
943	RATANPUR	ICHAK
944	THEPAI	ICHAK
945	AMBATANR	ICHAK
946	DOI	ICHAK
947	NARANGA POKHARIA	ICHAK
948	DARHA	ICHAK
949	KURTHIA	ICHAK
950	BANSI NAGAR	ICHAK
951	LUNDRU	ICHAK
952	DEKULI	ICHAK
953	TURI	ICHAK
954	JAGRA	ICHAK
955	JAGIDIH	ICHAK
956	DARIA	ICHAK
957	BARKA KHURD	ICHAK
958	LONHRI	ICHAK
959	URKA	ICHAK
960	MOKTAMA	ICHAK
961	PHURUKA	ICHAK
962	MANGURA	ICHAK
963	BHAGWABANPUR	ICHAK
964	ALAUNJA KALAN	ICHAK
965	KARI	ICHAK
966	MADANPUR	ICHAK
967	KUTEJ	ICHAK
968	DHARMU	ICHAK
969	KARIADPUR	ICHAK
970	CHANDA	ICHAK
971	ASIA	ICHAK
972	NAOKHAP	ICHAK
973	ALAUNJA KHURD	ICHAK
974	PAKAHI	ICHAK
975	JALAUNDH	ICHAK
976	ASALWAR	ICHAK
977	KURHA	ICHAK
978	BARWA	ICHAK
979	GUNJA	ICHAK
980	SIMRA	ICHAK
981	KARIMATI	ICHAK
982	TEPSA	ICHAK
983	BHUSAI	ICHAK
984	GIRHI	ICHAK
985	CHHAONI	ICHAK
986	KUTUMSUKURI	ICHAK
987	PRNAICHAK ALIAS PURNADIH	ICHAK
988	BANDUA	ICHAK
989	TETARIA	ICHAK
990	CHANDWARA	ICHAK



991	DHARMU	ICHAK
992	CHAPRAKH	ICHAK
993	SARAM	ICHAK
994	BONGA	ICHAK
995	SIRSI	ICHAK
996	BARIAT	ICHAK
997	DHAWAIA	ICHAK
998	GOBARBANDHA	ICHAK
999	RUD	ICHAK
1000	PARASI	ICHAK
1001	KHARRE	ICHAK
1002	KHUTRA	ICHAK
1003	BARKA KALAN	ICHAK
1004	HADARI	ICHAK
1005	DUMRAUN	ICHAK
1006	GURKUA	ICHAK
1007	FULDAHA	ICHAK
1008	BHUSWA	ICHAK
1009	TILRA	ICHAK
1010	KOATU	ICHAK
1011	KOIWADI	ICHAK
1012	CHAMPANAGAR NAWADIH	ICHAK
1013	DUMRI	ICHAK
1014	RAHEA	ICHAK
1015	NATHWA	ICHAK
1016	KATLE	ICHAK
1017	DANGI	ICHAK
1018	POHKARIA	ICHAK
1019	SIJHUA	ICHAK
1020	LOTWA	ICHAK
1021	PARASI RAJGHAT	ICHAK
1022	PANDRA	ICHAK
1023	DHAUTWA	KATKAMCANDI
1024	MANAR	KATKAMCANDI
1025	MARIGARA	KATKAMCANDI
1026	KONHAR	KATKAMCANDI
1027	TORAR	KATKAMCANDI
1028	AMJHAR	KATKAMCANDI
1029	BACHRA	KATKAMCANDI
1030	LAWA KUDAR	KATKAMCANDI
1031	ARABHUSAI	KATKAMCANDI
1032	MAUHGAN	KATKAMCANDI
1033	DONRWA	KATKAMCANDI
1034	SHAHAPUR	KATKAMCANDI
1035	BANJHIA	KATKAMCANDI
1036	GURI	KATKAMCANDI
1037	JHARDAG	KATKAMCANDI
1038	DAHURI	KATKAMCANDI
1039	BARIKOLA JHONJH	KATKAMCANDI
1040	NAWA KHAP	KATKAMCANDI
1041	KURHAGADA	KATKAMCANDI
1042	BALIA	KATKAMCANDI
1043	RAIBAR	KATKAMCANDI
1044	HOREYA	KATKAMCANDI
1045	GURUDIH	KATKAMCANDI
1046	DANTO KHURD	KATKAMCANDI
1047	KUD	KATKAMCANDI
1048	DANTO KALAN	KATKAMCANDI
1049	KATHOUTIA	KATKAMCANDI
1050	CHIRUA	KATKAMCANDI
1051	HESA KUDAR	KATKAMCANDI
1052	EDLA	KATKAMCANDI



1053	BAJHA	KATKAMCANDI
1054	SAKARJA	KATKAMCANDI
1055	DUMRI	KATKAMCANDI
1056	URIDIRI	KATKAMCANDI
1057	KHARIKA	KATKAMCANDI
1058	NACHLE	KATKAMCANDI
1059	BOROGARA	KATKAMCANDI
1060	KATKAMSANDI	KATKAMCANDI
1061	ULANJ	KATKAMCANDI
1062	PIPRA	KATKAMCANDI
1063	PUNDBORU	KATKAMCANDI
1064	JOLHADIHA	KATKAMCANDI
1065	LAKHNU	KATKAMCANDI
1066	HATKAUNA	KATKAMCANDI
1067	HARHAD	KATKAMCANDI
1068	DANR	KATKAMCANDI
1069	PICHRI	KATKAMCANDI
1070	SARUGARU KALAN	KATKAMCANDI
1071	SARUGARU KHURD	KATKAMCANDI
1072	SARUGARU KHURD	KATKAMCANDI
1073	GOSI	KATKAMCANDI
1074	KUMHIATANR	KATKAMCANDI
1075	BAHIMAR	KATKAMCANDI
1076	BARGARA	KATKAMCANDI
1077	BIKRAMA	KATKAMCANDI
1078	PABRA	KATKAMCANDI
1079	KHUTRA	KATKAMCANDI
1080	DHARHARA	KATKAMCANDI
1081	SULMI	KATKAMCANDI
1082	LUPUNG	KATKAMCANDI
1083	DUKRA	KATKAMCANDI
1084	MAYAPUR	KATKAMCANDI
1085	BARTUA	KATKAMCANDI
1086	ASDHIR	KATKAMCANDI
1087	JALIMA	KATKAMCANDI
1088	HARINA	KATKAMCANDI
1089	ALADIHA	KATKAMCANDI
1090	ROMI	KATKAMCANDI
1091	CHHARWA	KATKAMCANDI
1092	ATIA	KATKAMCANDI
1093	GODOKHAR	KATKAMCANDI
1094	KACHANPUR	KATKAMCANDI
1095	GOBINDPUR	KATKAMCANDI
1096	KANRRAR	KATKAMCANDI
1097	NAWADA	KATKAMCANDI
1098	LUNRI	KATKAMCANDI
1099	BELARGARA	KATKAMCANDI
1100	KISUNAWA	KATKAMCANDI
1101	PALWA (CT)	KATKAMCANDI
1102	CHOTHA	KATKAMCANDI
1103	HEDLAG	KATKAMDAG
1104	CHIRUA	KATKAMDAG
1105	PAKRAR	KATKAMDAG
1106	CHEPI	KATKAMDAG
1107	SADAMPUR	KATKAMDAG
1108	MEYATU	KATKAMDAG
1109	HOTHAMERHI	KATKAMDAG
1110	NAWADIH	KATKAMDAG
1111	LUTA	KATKAMDAG
1112	BALIAND	KATKAMDAG
1113	KADMA KHURD	KATKAMDAG
1114	KASTURI KHAP	KATKAMDAG



1115	KADMA NO. II	KATKAMDAG
1116	SALGAON	KATKAMDAG
1117	BANADAG	KATKAMDAG
1118	PASAI	KATKAMDAG
1119	MASRATU	KATKAMDAG
1120	REWALI	KATKAMDAG
1121	KUD NO.II	KATKAMDAG
1122	KUD	KATKAMDAG
1123	DAMUDIH	KATKAMDAG
1124	SIRSI NO. II	KATKAMDAG
1125	KHAPRTAON	KATKAMDAG
1126	NAWADA	KATKAMDAG
1127	DHENGURA	KATKAMDAG
1128	PARHERIA	KATKAMDAG
1129	SALGA	KATKAMDAG
1130	KATKAMDAG	KATKAMDAG
1131	BANKA	KATKAMDAG
1132	ARRA	KATKAMDAG
1133	BENDI	KATKAMDAG
1134	UDAIPUR	KATKAMDAG
1135	KUBA	KATKAMDAG
1136	CHICHI	KATKAMDAG
1137	KUSUMBHA	KATKAMDAG
1138	DARHA	KATKAMDAG
1139	SIRKA	KATKAMDAG
1140	SISOI	KATKAMDAG
1141	MARHAND	KATKAMDAG
1142	BES	KATKAMDAG
1143	PUNDRI	KATKAMDAG
1144	PHATHA	KATKAMDAG
1145	HARUDAG	KATKAMDAG
1146	RAJHAR	KATKAMDAG
1147	ODAMA	KATKAMDAG
1148	JAMUARI	KATKAMDAG
1149	HARAM	KATKAMDAG
1150	SULTANA	KATKAMDAG
1151	SIMARIYA	KATKAMDAG
1152	BUKRU	KEREDARI
1153	LOHRA	KEREDARI
1154	BAKCHOMA	KEREDARI
1155	GOPDA	KEREDARI
1156	PORRA	KEREDARI
1157	DUMRI	KEREDARI
1158	PHUSRI	KEREDARI
1159	MANATU	KEREDARI
1160	MASURIYA	KEREDARI
1161	KAJEA	KEREDARI
1162	LAJIDAG	KEREDARI
1163	JABRA	KEREDARI
1164	KANDABER	KEREDARI
1165	NAWADIH	KEREDARI
1166	BASARIA	KEREDARI
1167	SIRMA	KEREDARI
1168	BELTU	KEREDARI
1169	BAREATU	KEREDARI
1170	DEORIA KHURD	KEREDARI
1171	DEORIA KALAN	KEREDARI
1172	PANDEPURA KHURD	KEREDARI
1173	PANDEPURA KALAN	KEREDARI
1174	GARRI KHURD	KEREDARI
1175	PATRA KHURD	KEREDARI
1176	HESLA	KEREDARI



1177	JAMIRA	KEREDARI
1178	UPHRAUL	KEREDARI
1179	PAHRA	KEREDARI
1180	PANDEKULI	KEREDARI
1181	KENCHA	KEREDARI
1182	HEWAI	KEREDARI
1183	BENGWARI	KEREDARI
1184	TARHESA	KEREDARI
1185	BALEDEORI	KEREDARI
1186	BASARIA	KEREDARI
1187	HARILA	KEREDARI
1188	PANDU	KEREDARI
1189	TUNDA	KEREDARI
1190	BALIA	KEREDARI
1191	KABED	KEREDARI
1192	PAGAR	KEREDARI
1193	CHATTI BARIATU	KEREDARI
1194	NAWA KHAP	KEREDARI
1195	PACHANRA	KEREDARI
1196	SEJHUA	KEREDARI
1197	KODWE	KEREDARI
1198	LOCHAR	KEREDARI
1199	PATRA KALAN	KEREDARI
1200	KEREDARI	KEREDARI
1201	KHAPIA	KEREDARI
1202	JAMIRA	KEREDARI
1203	KHAPIA	KEREDARI
1204	OME	KEREDARI
1205	JORDAG	KEREDARI
1206	LOISUKWAR	KEREDARI
1207	BHADAIKHAP	KEREDARI
1208	KARALI	KEREDARI
1209	KEMO	KEREDARI
1210	JOKA	KEREDARI
1211	KUTHAN	KEREDARI
1212	SAYAL	KEREDARI
1213	SALGA	KEREDARI
1214	SIROIYA	KEREDARI
1215	CHETAR	KEREDARI
1216	BARKAGAON RF	KEREDARI
1217	GHUTU	KEREDARI
1218	BARKAGAON RF	KEREDARI
1219	NIRI	KEREDARI
1220	KHAPIA	KEREDARI
1221	BATUKA	KEREDARI
1222	BUNDU	KEREDARI
1223	KIRJARA	KEREDARI
1224	KORLE	KEREDARI
1225	LOHARSA	KEREDARI
1226	PATAL	KEREDARI
1227	BUCHADIIH	KEREDARI
1228	HENDEGIR	KEREDARI
1229	ITIJ	KEREDARI
1230	GARRI KALAN	KEREDARI
1231	PETO	KEREDARI
1232	KADMA NO.1	Level 3
1233	TILAIYA	Level 3
1234	PINDARKON	PADMA
1235	BHANDRA	PADMA
1236	KARAR	PADMA
1237	GOTEA	PADMA
1238	SIMARKURHA	PADMA



1239	NACHANWE	PADMA
1240	KEOLA	PADMA
1241	BARDEWA	PADMA
1242	GARU KURHA	PADMA
1243	SARAIA	PADMA
1244	GARWA	PADMA
1245	KOIRIADIH	PADMA
1246	NAWADIH KALAN	PADMA
1247	KUTIPISI	PADMA
1248	MUNGARMAO	PADMA
1249	DONAI KHURD	PADMA
1250	BANDARBELA	PADMA
1251	PADMA	PADMA
1252	LATI	PADMA
1253	KANDADAG	PADMA
1254	PARTAN	PADMA
1255	KARMATANR	PADMA
1256	ROMI	PADMA
1257	CHAMPADIH	PADMA
1258	SURAJPURA	PADMA
1259	TILADIH	PADMA
1260	ARAR	PADMA
1261	JHU	PADMA
1262	DONAI KALAN	PADMA
1263	MAHKOLA	PADMA
1264	HARAMBAR	PADMA
1265	BASAI	PADMA
1266	GHANTO	PADMA
1267	BIHARI	PADMA
1268	SUJI	PADMA
1269	NAWADIH	PADMA
1270	KARMA	PADMA
1271	NARSINGHWA	PADMA
1272	MAJHGANWA	PADMA
1273	ROL	PADMA
1274	SONPURA	PADMA
1275	BARGAON	PADMA
1276	BUNDU	PADMA
1277	TILIR	PADMA
1278	CHENGRA	TATIJHARIA
1279	KARMA	TATIJHARIA
1280	SENHDA	TATIJHARIA
1281	KHAIRA	TATIJHARIA
1282	SIMRADHAB ALIAS PUTO	TATIJHARIA
1283	PANIMAKO	TATIJHARIA
1284	BERMAKA	TATIJHARIA
1285	NARAINPUR	TATIJHARIA
1286	LODHI	TATIJHARIA
1287	JHARPO	TATIJHARIA
1288	BHARAJO	TATIJHARIA
1289	AMNORI	TATIJHARIA
1290	GHUGHULIA	TATIJHARIA
1291	KESRA	TATIJHARIA
1292	GODHEA	TATIJHARIA
1293	HATWE	TATIJHARIA
1294	AINTHA	TATIJHARIA
1295	DAHARBHANGA	TATIJHARIA
1296	PANRRA	TATIJHARIA
1297	SADARO	TATIJHARIA
1298	KHAPIA	TATIJHARIA
1299	TATI	TATIJHARIA
1300	BISAI	TATIJHARIA



1301	MURUMATU	TATIJHARIA
1302	JHARIA	TATIJHARIA
1303	BAUDHA	TATIJHARIA
1304	BERHO	TATIJHARIA
1305	HALANG	TATIJHARIA
1306	HARLI	TATIJHARIA
1307	DUNGO	TATIJHARIA
1308	BARHE	TATIJHARIA
1309	KESODIH	TATIJHARIA
1310	SIJU	TATIJHARIA
1311	CHURCHU	TATIJHARIA
1312	KHARKA	TATIJHARIA
1313	DUDHMANIA	TATIJHARIA
1314	KHAMWA	TATIJHARIA
1315	BANDI	TATIJHARIA
1316	CHIRUWAN	TATIJHARIA
1317	BANSI	TATIJHARIA
1318	MARPA	TATIJHARIA
1319	DHARAMPUR	TATIJHARIA
1320	CHECHAKI	TATIJHARIA
1321	JARUADIH	TATIJHARIA
1322	DUMAR	TATIJHARIA
1323	KOLHU	TATIJHARIA
1324	MAYAPUR	TATIJHARIA
1325	BARHAMORIA	TATIJHARIA
1326	RAMJITI	TATIJHARIA
1327	BERAM	TATIJHARIA
1328	PALMO	TATIJHARIA
1329	MURKO	TATIJHARIA
1330	BERAM	TATIJHARIA
1331	CHURKU	TATIJHARIA
1332	MANGAPATTA	TATIJHARIA
1333	PORTANGA	TATIJHARIA
1334	JOBHI	TATIJHARIA
1335	HATWAL	TATIJHARIA
1336	KHUTWAR	TATIJHARIA
1337	CHOCHO ALIAS SAWAR	TATIJHARIA



**जिला खनन कार्यालय, हजारीबाग।**

हजारीबाग जिलान्तर्गत धारित कोयला खनन पट्टों की सूची :-

क्र० सं०	कोलियरी का नाम	एरिया का नाम	रकबा (हे० में)	वर्तमान स्थिति	अभ्युक्ति
1	2	3	4	5	6
1.	उरीमारी ओ० सी० परियोजना।	सर्वश्री सी०सी०एल०, बडकास्याल क्षेत्र।	243.09	चालू	C.B. Act के तहत भूमि अधिग्रहित है।
2.	उरीमारी यू० जी० परियोजना।	सर्वश्री सी०सी०एल०, बडकास्याल क्षेत्र।	105.22	बन्द	C.B. Act के तहत भूमि अधिग्रहित है। पट्टेधारी स्तर से बन्द।
3.	बिरसा परियोजना।	सर्वश्री सी०सी०एल०, बडकास्याल क्षेत्र।	523.06	चालू	C.B. Act के तहत भूमि अधिग्रहित है।
4.	गिद्दी ए० परियोजना।	सर्वश्री सी०सी०एल०, अरगड्डा क्षेत्र।	187.98	चालू	C.B. Act के तहत भूमि अधिग्रहित है।
5.	गिद्दी सी० परियोजना।	सर्वश्री सी०सी०एल०, अरगड्डा क्षेत्र।	210.32	चालू	C.B. Act के तहत भूमि अधिग्रहित है।
6.	रेलौगढा परियोजना।	सर्वश्री सी०सी०एल०, अरगड्डा क्षेत्र।	264.00	चालू	C.B. Act के तहत भूमि अधिग्रहित है।
7.	तापिन साउथ परियोजना।	सर्वश्री सी०सी०एल०, चरही क्षेत्र।	151.93	चालू	C.B. Act के तहत भूमि अधिग्रहित है।
8.	पकरी बरवाडीह कोल परियोजना।	एन० टी० पी० सी०।	4695.00	चालू	C.B. Act के तहत भूमि अधिग्रहित है।
9.	चट्टी बरियातु कोल परियोजना।	एन० टी० पी० सी०।	646.23	चालू	C.B. Act के तहत भूमि अधिग्रहित है।
10	करेडारां कोल परियोजना।	एन० टी० पी० सी०।	1173.00	चालू	C.B. Act के तहत भूमि अधिग्रहित है।





**Annexure-IV**  
**Screenshot of DSR uploaded on**  
**hazaribagh.nic.in portal**

9





हजारीबाग  
**HAZARIBAG**



## District Survey Report of Minor Mineral-Stone Other Than Sand Mining From District Mining Office, Hazaribag

Title	Description	Start Date	End Date	File
District Survey Report of Minor Mineral-Stone Other Than Sand Mining From District Mining Office, Hazaribag	Survey Report	05/08/2024	28/08/2024	View (3 MB)



Handwritten signature

# Annexure-V

## Newspaper Advt. Copy

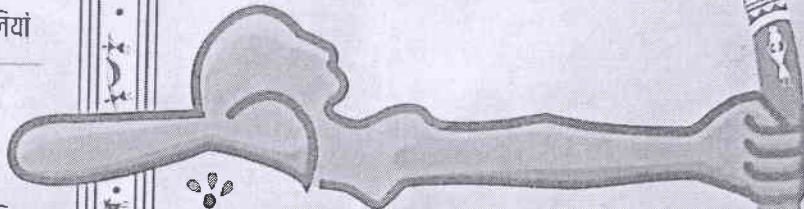


## मुख्य आकर्षण

- रीझ रंग शोभा यात्रा
- सांस्कृतिक कार्यक्रम
- झारखण्ड की चित्रकला शैलियां
- आदिवासी पुस्तक मेला
- आदिवासी कवि सम्मेलन
- वृत्तचित्र स्क्रीनिंग
- कला-शिल्प प्रदर्शनी
- परिधान फैशन शो
- खान-पान
- लेजर शो



उद्घाटन समारोह



# झारखण्ड आदिवासी महोत्सव 2024

❖ मुख्य अतिथि ❖

**श्री संतोष कुमार गंगवार**

माननीय राज्यपाल, झारखण्ड

❖ विशिष्ट अतिथि ❖

**श्री शिवू सोरेन**

माननीय अध्यक्ष, राज्य समन्वय समिति  
सह सांसद, राज्यसभा

❖ अध्यक्षता ❖

**श्री हेमन्त सोरेन**

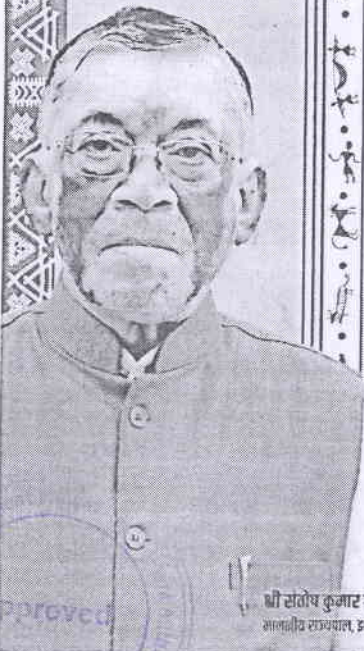
माननीय मुख्यमंत्री, झारखण्ड  
तथा

माननीय मंत्रीगण, माननीय सांसदगण,  
माननीय विधायकगण एवं अन्य गणमान्य अतिथियों  
की गरिमामयी उपस्थिति में

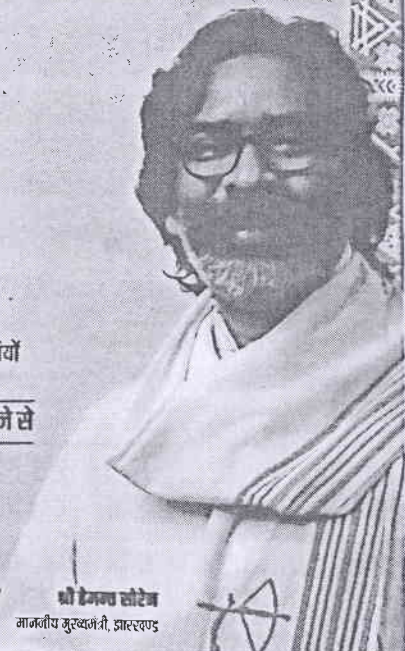
शुक्रवार 9 अगस्त, 2024 | अपराह्न 12:00 बजे से

बिरसा मुण्डा स्मृति उद्यान, जेल चौक,  
रांची में आयोजित है

समारोह में आपकी  
उपस्थिति सादर प्रार्थित है



श्री संतोष कुमार गंगवार  
माननीय राज्यपाल, झारखण्ड



श्री हेमन्त सोरेन  
माननीय मुख्यमंत्री, झारखण्ड

संस्था एवं जनसंपर्क विभाग, झारखण्ड सरकार



मुआवजा राश  
क आशय को  
गिडिया प्रभारी  
है।

कार्यालय के समक्ष अनिश्चितकालीन धरना शुरू हाने वाला है। संस्था के संस्थापक एवं अध्यक्ष के अंचल कार्यालय में भ्रष्टाचार व्याप्त है। आम आदमी को बार बार परेशान किया जा रहा है। उपरोक्त मामले को लेकर आर्टीआई कानून के तहत सूचना मांगी गई थी, जिसे अंचल कार्यालय के द्वारा अब तक उपलब्ध नहीं कराया गया है।

डेय द्वारा पर्याप्त मात्रा में  
झामुमो नगर अध्यक्ष ने

ता  
ण्ड मुख्यमंत्री मॉडिया  
नाला बाजरी को देखते  
दोपक विश्वकर्मा ने  
विश्वकर्मा को इसका  
द्वारा सभी महिलाओं से  
रीके से पैसा का वसूली  
ब भी हमारी बहने एवं  
तो उसको दिया नहीं जा  
ए जिला अध्यक्ष विरेंद्र  
द्वारा दोपक विश्वकर्मा को  
सभी बहनों एवं माताओं  
में जा कर फॉर्म वितरित  
उसके बाद आज दूसरे  
विश्वकर्मा के द्वारा सभी  
शुल्क फॉर्म को वितरित

: अध्यक्ष अरविंद  
ने बधाईयाँ

नेज मिश्र तथा मंत्री  
को बनया गया

जनता पार्टी सिंदरी नगर का  
ने पर अरविंद पाठक को  
नेज मिश्र तथा मंत्री प्रकाश  
पर सिंदरी नगर के भाजपा  
प्र प्रदेश अध्यक्ष बाबूलाल  
द्वारा एचम सम्मानित जिला  
र का आभार व्यक्त किया है  
पा नेता दिनेश सिंह राकेश  
धरी, रंजना शर्मा, राधव  
हिंगणपति बाउरी, संजय  
श्यामल अड्डे, अणिमा  
पो पाल, टिकू महतो इत्यादि  
बधाइयाँ दी।

त्व में होगा तिरंगा  
इस सिंह

इस रिपोर्ट में, भारतीय  
ग जिला अध्यक्ष विवेकानंद  
प्रदेश कार्य-समिति सदस्य,  
च मोर्चा के जिला अध्यक्षों  
ठक संपन्न हुई। बैठक का  
के जिला संयोजक आनंद  
क्रम में प्रदेश द्वारा निर्देशित  
तापूर्वक संपन्न करवाने हेतु  
11, 12, 13 अगस्त 2024  
य युवा मोर्चा के नेतृत्व में  
रेंगा लगवाना, 12, 13, 14  
हला मोर्चा के नेतृत्व में जिले  
नेतृत्वियों को प्रतिमा की साफ  
किया जाना, 14 अगस्त को  
न विभीषिका दिवस को बड़े  
ना। इन सभी कार्यक्रमों के  
वैधानसभा स्तरीय संयोजक,  
प्रभारी एवं मंडल स्तरीय  
योजक की नियुक्ति की गई।  
रूप से प्रदेश कार्य समिति  
I, दुन्नू गोप, सुदेश चंद्रवंशी  
द, चंद्रनाथ भाई पटेल, जिला  
संह, राजेश गुना, रमेश ठाकुर  
रायण प्रसाद, कुंवर मनोज  
महेंद्र बिहारी, उमा पाठक,  
सज्जन पांडे, तनवीर  
रंशी, विवेक जोशी यदि मुख्य

**झारखण्ड सरकार**  
**श्रम, नियोजन, प्रशिक्षण एवं कौशल विकास विभाग,**  
**निवेशालय, नियोजन एवं प्रशिक्षण, झारखण्ड, राँची**

**अखिल भारतीय व्यावसायिक (शिल्प) Annual परीक्षा अगस्त-2024**  
**से संबंधित अति महत्वपूर्ण सूचना**

अखिल भारतीय व्यावसायिक (शिल्प) Annual परीक्षा अगस्त 2024 की विषय- व्यवहारिक की  
Online परीक्षा (दिनांक-12.08.2024 से दिनांक-17.08.2024) को ऑनलाइन परीक्षा एवं प्रायोगिक परीक्षा के  
संबंधित सूचना हेतु परीक्षा में संलग्नित हो जाने वाले परीक्षार्थियों को सूचित किया जाता है कि:-

1. परीक्षा केन्द्र पर केवल कलम (Pen), Geometry Box एवं एनामिड कार्ड (Hall Ticket) ले जाना की अनुमति होगी।
2. परीक्षा केन्द्र पर लैपटॉप, मोबाइल फोन, लॉगबुक, किताब, कैंपी, रजिस्टर, पेगजीन, अखबार, झोला, बैग इत्यादि ले जाना बिलकुल वर्जित होगा। परीक्षा केन्द्र में इन सामग्रियों को ले जाने की इजाजत किसी भी परिस्थिति में नहीं होगी। कदाचार के दृष्टांत पाए जाने पर कठोरतम कार्रवाई की जायेगी।
3. परीक्षा प्रारंभ होने के निर्धारित समय से 1/2 घंटे के बाद सामान्यतः किसी परीक्षार्थी को परीक्षा केन्द्र में प्रवेश की अनुमति नहीं दी जायेगी।
4. परीक्षा समाप्ति के 15 मिनट पहले परीक्षार्थियों को परीक्षा भवन छोड़ने की अनुमति दिया जा सकेगा।
5. केन्द्राधीक्षक अपने केन्द्र के सभी परीक्षार्थियों को जाँचोपरान्त पूर्णतः संतुष्ट होने के उपरान्त ही परीक्षा भवन में प्रवेश सुनिश्चित करेंगे।

प्रस्ताव में निदेशक, नियोजन एवं प्रशिक्षण, झारखण्ड, राँची का अनुमोदन प्राप्त है। उप निदेशक प्रशिक्षण (मु०)  
निदेशालय नियोजन एवं प्रशिक्षण  
झारखण्ड, राँची

PR 332298 Labour Employment and Training(24-25).D

**उपायुक्त-सह-जिला दण्डाधिकारी का कार्यालय, गुमला**  
**(विकास शाखा)**

E-Mail - ddcgumla2014@gmail.com, Phone No. 06524-222209 Fax No. 06524-222209

**:- अति अल्पकालीन निविदा :-**

गुमला जिला में अतिविशेष अतिथियों के भ्रमण एवं अन्य कार्यक्रम के सफल आयोजन हेतु विभिन्न प्रकार के जर्मन हेगर/टैट/शामियाना/लाइट/साउण्ड एवं अन्य संबंधित सामग्री की आपूर्ति के दर निर्धारण के लिए निबंधित एवं इच्छुक आपूर्तिकर्ता/फर्मों से दिनांक 16.08.2024 के अपराह्न 12.30 बजे तक अति अल्पकालीन मुहरबंद निविदा आमंत्रित की जाती है। इच्छुक निविदादाता दिनांक 16.08.2024 के पूर्वाह्न अपराह्न 12.30 बजे तक जिला विकास शाखा, गुमला (विकास भवन) के कार्यालय में निबंधित डाक/स्प्रीड पोस्ट अथवा व्यक्तिगत रूप से उपस्थित होकर मुहरबंद निविदा दे सकते हैं। निर्धारित तिथि एवं समय के पश्चात् प्राप्त निविदाएँ स्वीकार नहीं की जायेंगी। प्राप्त निविदाओं को दिनांक 16.08.2024 को अपराह्न 03.00 बजे विकास भवन, गुमला के सामागार में जिला क्रय समिति द्वारा निविदादाता अथवा उनके प्राधिकृत प्रतिनिधि के समक्ष खोला जाएगा। निविदा से संबंधित विस्तृत विवरणी जिले के वेबसाइट (www.gumla.nic.in) पर देखा जा सकता है।

उप विकास आयुक्त, उपायुक्त,  
गुमला गुमला

PR 332276 Rural Development(24-25)#D

**झारखण्ड सरकार**  
**उपायुक्त का कार्यालय, हजारीबाग**  
**(खनन शाखा)**

**आम सूचना**  
**Draft DSR लघु खनिजों (बालू छोड़कर)**

एतद द्वारा सूचित करना है कि हजारीबाग जिला हेतु तैयार Draft DSR लघु खनिजों (बालू छोड़कर)  
Ministry of Environment Forest and Climate Change के अधिसूचना संख्या S.O. 3611 (E), date  
25.07.2018 के आलोक में Public Viewing एवं Comments हेतु जिला के वेबसाइट  
https://hazaribagh.nic.in में Upload किया गया है, जो Public Domain पर 21 दिनों तक उपलब्ध रहेगी।  
अतः आमजनों एवं Stakeholders से अनुरोध है कि तैयार Draft DSR लघु खनिज पत्थर आदि  
(बालू छोड़कर) के बावत सुझाव एवं Comments उपायुक्त, हजारीबाग के कार्यालय अथवा जिला खनन कार्यालय,  
हजारीबाग में पत्र के माध्यम से भेजा जा सकता है।

ह० /-  
उपायुक्त,  
हजारीबाग

PR 332258 Mines and Geology (24-25)\_D

**कार्यालय, जिला उद्यान पदाधिकारी, हजारीबाग/रामगढ़**  
**Ph No : 06546 - 291453 ,Email - dho.hazaribagh@gmail.com**

**आम - सूचना**

झारखण्ड सरकार कृषि, पशुपालन एवं सहकारिता विभाग (उद्यान प्रभाग) के किागीय संज्यादेश सं० - 43 दिनांक 24.07.2024 के आलोक में राज्य योजनामार्गत वित्तीय वर्ष 2024-25 में मधुमक्खी पालन की योजना का कार्यान्वयन किया जाना है। मधुमक्खी पालन हेतु लाभुको का ध्यान में JSLPS के लाभुको/महिला मंडल/सखी मंडल/कृषक समूह के साथ-साथ अन्य कृषकों को लाभ दिया जायगा। उक्त योजनामार्गत कृषकों को 80 प्रतिशत अनुदान पर योजना का लाभ दिया जायगा। इच्छुक JSLPS के लाभुको/महिला मंडल/सखी मंडल/कृषक समूह के साथ-साथ अन्य कृषक कार्यालय अवधि में नि मुक्त आवेदन-प्रपत्र प्राप्त कर दिनांक - 15.08.2024 तक कार्यालय में आवेदन जमा कर सकते हैं।

क्र०	कार्य अवयव	वित्तीय लक्ष्य	भौतिक लक्ष्य लाभुक सं०			
			जिला - हजारीबाग	जिला - रामगढ़	OSP	SCSP
1	मधुमक्खी पालन इकाई एवं मधु निष्कासन यंत्र	मधुमक्खी पालन हेतु प्रति इकाई लागत ₹० 1.00 लाख मात्र का अधिकतम 80 प्रतिशत अनुदान ₹० 0.80 लाख	25	10	15	05

जिला उद्यान पदाधिकारी,  
हजारीबाग/रामगढ़

PR 332210 Agriculture(24-25).D



88



झारखंड का सर्वाधिक प्रसारित दैनिक

असह्यार नही प्रोत्साहित

# प्रभात खबर

10.00.000

राज्य, राष्ट्रीय, अंतर्राष्ट्रीय, विदेशी, राष्ट्रीय, अंतर्राष्ट्रीय, विदेशी, राष्ट्रीय, अंतर्राष्ट्रीय, विदेशी

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prabhatkhabar.com/PrabhatKhabar



## झारखण्ड आदिवासी महोत्सव 2024

उद्घाटन सत्र के  
कार्यक्रम की झलकियां

### मुख्य आकर्षण

सांस्कृतिक कार्यक्रम पूर्वार्ध 11 बजे से

- > नगाड़ा समूह का वादन
- > आसाम बैंड की प्रस्तुति
- > "फ्लेम ऑफ दी फारेस्ट" वादन कार्यक्रम
- > आदिवासी परिधान प्रदर्शन प्रस्तुति
- > लेजर एवं फायर शो (VFX)

### समापन समारोह

❖ मुख्य अतिथि ❖

**श्री हेमन्त सोरेन**

माननीय मुख्यमंत्री, झारखण्ड

❖ विशिष्ट अतिथि ❖

समस्त माननीय मंत्री, झारखण्ड सरकार

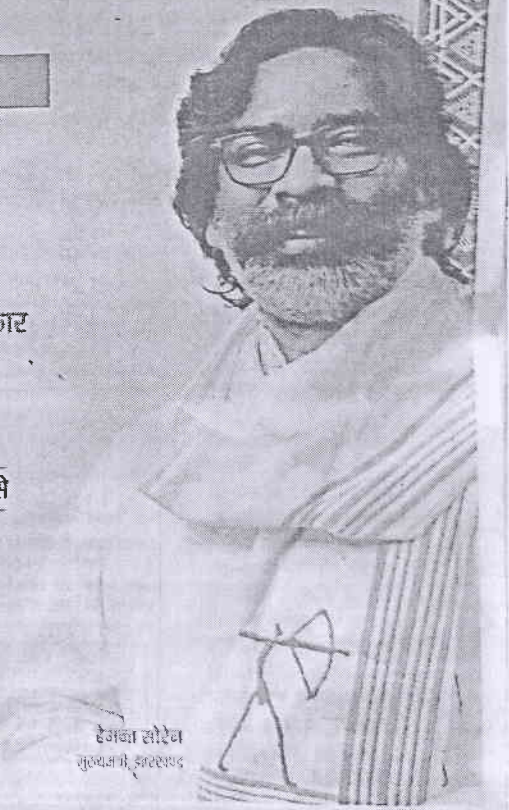
तथा

माननीय सांसदगण, माननीय विधायकगण एवं अन्य गणमान्य अतिथियों की गरिमामय उपस्थिति में

शनिवार 10 अगस्त, अपराह्न 05:00 बजे से

बिरसा मुण्डा स्मृति उद्यान, जेल चौक, रांची में आयोजित है

समारोह में आपकी उपस्थिति सादर प्रार्थित है



हेमन्त सोरेन  
मुख्यमंत्री, झारखण्ड

PR 332325 (IPRD) 24-25

सूचना एवं जनसंपर्क विभाग, झारखण्ड सरकार





झारखण्ड सरकार

उपायुक्त का कार्यालय, हजारीबाग  
(खनन शाखा)



आम सूचना

Draft DSR लघु खनिजों (बालू छोड़कर)

एतद द्वारा सूचित करना है कि हजारीबाग जिला हेतु तैयार Draft DSR लघु खनिजों (बालू छोड़कर) Ministry of Environment Forest and Climate Change के अधिसूचना संख्या S.O. 3611 (E), date 25.07.2018 के आलोक में Public Viewing एवं Comments हेतु जिला के वेबसाईट <https://hazaribagh.nic.in> में Upload किया गया है, जो Public Domain पर 21 दिनों तक उपलब्ध रहेगी।

अतः आमजनों एवं Stakeholders से अनुरोध है कि तैयार Draft DSR लघु खनिज पत्थर आदि (बालू छोड़कर) के बावत सुझाव एवं Comments उपायुक्त, हजारीबाग के कार्यालय अथवा जिला खनन कार्यालय, हजारीबाग में पत्र के माध्यम से भेजा जा सकता है।

₹0/-

उपायुक्त,  
हजारीबाग

PR 332258 Mines and Geology (24-25)\_D

झारखण्ड सरकार कार्यपालक अभियंता का कार्यालय,  
पेयजल एवं स्वच्छता प्रमंडल, गोंदा, राँची।  
अतिअल्प कालीन निविदा आमंत्रण सूचना सं० -03/2024-25

Email Id - eedwsd.gonda@gmail.com

1. विभाग का नाम :- पेयजल एवं स्वच्छता विभाग, झारखंड, राँची।
2. विज्ञापनदाता का नाम :- कार्यपालक अभियंता, पेयजल एवं स्वच्छता प्रमंडल, गोंदा, राँची।
3. परिमाण विपत्र की विक्री की अंतिम तिथि एवं समय :- 16.08.2024 को अपराह्न 1.00 बजे तक।
4. निविदा प्राप्ति की तिथि एवं समय :- 17.08.2024 को अपराह्न 3.00 बजे तक।
5. निविदा खोलने की तिथि एवं समय :- 17.08.2024 को अपराह्न 3.30 बजे।
6. परिमाण विपत्र विक्री का स्थान :- 1) कार्यपालक अभियंता, पेयजल एवं स्वच्छता प्रमंडल, गोंदा, राँची।  
2) अधीक्षण अभियंता, पेयजल एवं स्वच्छता नागरिक अंचल, राँची।
7. निविदा प्राप्ति एवं खोलने का स्थान:- कार्यपालक अभियंता, पेयजल एवं स्वच्छता प्रमंडल, गोंदा, राँची।
8. कार्यों की विवरणी :-

क्र	कार्य का नाम	प्रकलित राशि	अग्रधन की राशि	B.O.Q. का मूल्य	कार्य समाप्ति की अवधि।
1.	Re Construction of Boundary Wall at VISWA Hostel Kanke Ranchl.	2,29,121.00	5000.00	500.00	7 Days

नियम एवं शर्तें सूचनापट्ट पर देखा जा सकता है।

PR 332243 Drinking Water and Sanitation(24-25)D

कार्यपालक अभियंता  
पेयजल एवं स्वच्छता प्रमंडल, गोंदा, राँची।

कार्यपालक अभियंता का कार्यालय  
भवन निर्माण विभाग भवन प्रमंडल संख्या-1, राँची

शुद्धि पत्र

एतद द्वारा भवन निर्माण विभाग में निबंधित सभी समुचित श्रेणी के संवेदकों को सूचित किया जाता है कि इस कार्यालय के पत्रांक-2159(अनु०)दिनांक19.07.2024पी०आर० संख्या-330102Building(24-25):D द्वारा प्रकाशित ई-निविदा आमंत्रण सूचना निम्नवत पढ़ा जाय -

Sl. No.	Tender Reference No.	Work Name	Amount (Rs.)	Completion Time
1	BCD/Div.No.-1, Ranchi/20/ 2024-25	Proposed Gate and Site Development of Dr. Shyama Prasad Mukherjee University, Morabadi, Ranchi	13163200	Six Month
2	Start Date of Submission of Bids		09-08-2024 at 11.00 AM	
3	Last Date/Time of Submission of Bids		16-08-2024 at 11.00 AM	
4	Date/Time of Opening of Bid		17-08-2024 at 11.00 AM	

एवं अन्य शर्तें पूर्ववत् रहेगी।

PR.NO.332257 Building(24-25):D

कार्यपालक अभियंता  
भवन निर्माण विभाग  
भवन प्रमंडल संख्या-1, राँची

-Procurement Cell  
OFFICE OF THE EXECUTIVE ENGINEER BUILDING CONSTRUCTION  
DEPARTMENT BUILDING DIVISION NO. - 1, RANCHI  
(Behind State Guest House Morhabadi)  
Diadsyal Nagar Booty Road Ranchi-834008

2ND Call  
VERY SHORT TERM E-QUOTATION INVITATION NOTICE  
FOR RATE PURPOSE ONLY

Quotation Reference No : BCD/Bld. Div. No.- 1 --- 10/2024-25

Sealed Quotations are invited for the work Supply of House Hold Items & Furniture at C.M. House Kanke Road, Ranchi for all Materials from Reputed Shop Keepers / Manufacturers / Suppliers / Retailers / Distributors and Registered B.C.D. Contractors for following items. They should quote their rates for unit mentioned in the table. If they do not deals all of the below mentioned items then they are allowed to quote their rate for part of the items which ever they deals. The rates should be exclusive of all types of Taxes, GST, Contractor's Profit and overhead charges etc. but inclusive of Royalty. All Rates should be exclusive of Labour Cess.

Terms and Condition

1. The quotatloner shall furnish Pan, GST registration no.
2. The rate quoted by quotatloner shall be firm and final.
3. The undersigned reserves the right to accept or reject/cancel any or all quotatlons without assigning any reason thereof.

नोट -

- (1) वेबसाईट में ई-कोटेशन अपलोड की अंतिम तिथि 15-08-2024 को अपराह्न 1:00 बजे तक।
- (2) ई-कोटेशन खोलने की तिथि एवं समय 16-08-2024 अपराह्न 1:00 बजे तक।
- (3) ई-कोटेशन आमंत्रण सूचना में उल्लेखित शर्तें पालनीय होंगी।



Handwritten signature





# सन्मार्ग



विगत सरकार की समय के लिए संभव

विगत सरकार की समय के लिए संभव

## मुख्य आकर्षण

- > मेज एम रोना रात्रा
- > सांस्कृतिक कार्यक्रम
- > झारखण्ड की चित्रकला शैलियां
- > आदिवासी पुस्तक मेला
- > आदिवासी कवि सम्मेलन
- > वृत्तचित्र स्क्रीनिंग
- > कला-नशात्प्य प्रदर्शनों
- > परिधान, फैशन शो
- > खान-पान
- > लेजर शो



उद्घाटन समारोह



# झारखण्ड आदिवासी महोत्सव 2024

❖ मुख्य अतिथि ❖  
**श्री संतोष कुमार गंगवार**  
 माननीय राज्यपाल, झारखण्ड

❖ विशिष्ट अतिथि ❖  
**श्री शिवू सोरेन**  
 माननीय अध्यक्ष, राज्य समन्वय समिति सह सांसद, राज्यसभा

❖ अध्यक्षता ❖  
**श्री हेमन्त सोरेन**  
 माननीय मुख्यमंत्री, झारखण्ड

तथा  
 माननीय मंत्रीगण, माननीय सांसदगण,  
 माननीय विधायकगण एवं अन्य गणमान्य अतिथियों  
 की गरिमामयी उपस्थिति में

शुक्रवार 9 अगस्त, 2024 | अपराह्न 12:00 बजे से

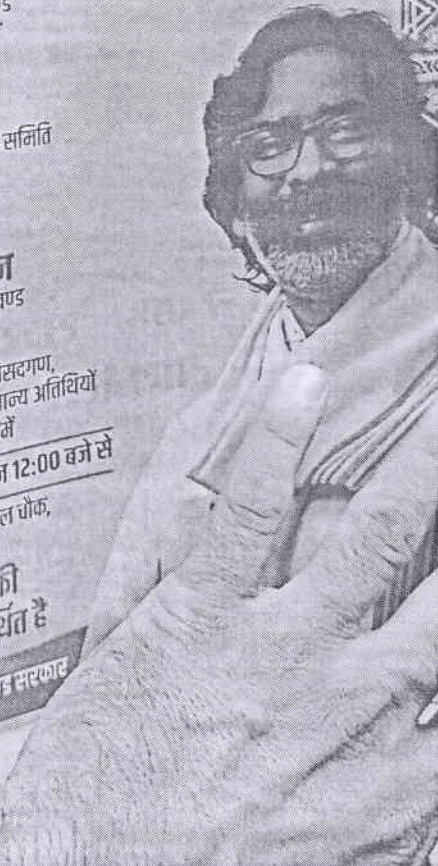
विरसा मुण्डा स्मृति उद्यान, जेल चौक, रांची में आयोजित है

समारोह में आपकी उपस्थिति सादर प्रार्थित है

सूचना एवं जनसंपर्क विभाग, झारखण्ड सरकार



श्री संतोष कुमार गंगवार  
माननीय राज्यपाल, झारखण्ड



PH 33224118910 | 34 22

सूचना प्रकाशित करने का प्रयास किया गया। बैठक में मुख्य रूप से जिला निर्वाचन पदाधिकारी सह उपायुक्त कुलदीप चौधरी, निर्वाचक निबंधक पदाधिकारी 52 चाईबासा अनिपेक्ष रंजन, निर्वाचक निबंधक पदाधिकारी 55 मनोहरपुर, सिती एनोला लड़का, उप निर्वाचन पदाधिकारी बंधन लॉन्ग, सहायक समाहर्ता अर्जुन मिश्रा, मान्यता प्राप्त राजनैतिक दलों के प्रतिनिधि सहित अन्य मुख्य रूप से उपस्थित रहे।

कल्याणकारी योजनाओं में प्रयत्न होकर किसी अज्ञात ने विकास विरोधी कार्यवाही का परिचय देते हुए जान मुझवर शहर के विभिन्न स्थानों में अतिरिक्त फ्लोयस फ्रेमों को फेंक कर क्षतिग्रस्त कर दिया है। मामले पर संज्ञान लेते हुए सामाजिक कार्यकर्ता विशानु राय ने गुरुवार को सुदर थाना, चाईबासा के प्रभारी तरुण कुमार को पत्र लिखकर इसका शिवागत करते हुए कार्रवाई का मांग किया है, विशानु राय ने एति

वहाने का अनुरोध किया है। इसपर पूर्व भी कई सामाजिक तथा धार्मिक संगठनों का फ्लोयस असाभाविक तत्वों के द्वारा क्षतिग्रस्त कर दिया गया था। ऐसे ओझी हरकत करने वालों लोगों को चिन्हित कर उनपर कार्रवाई की जाए। जिसके बाद विशानु राय ने जिला जनसंपर्क पदाधिकारी, प. शिंतभूम ईशा खंडेलवाल से क्षतिग्रस्त फ्लोयस फ्रेमों को हटवाने का अनुरोध किया है।

**झारखण्ड सरकार**  
**उपायुक्त का कार्यालय, हजारीबाग**  
(खनन शाखा)

**आम सूचना**  
**Draft DSR लघु खनिजों (बालू छोड़कर)**

एतद द्वारा सूचित करना है कि हजारीबाग जिला हेतु तैयार Draft DSR लघु खनिजों (बालू छोड़कर) Ministry of Environment Forest and Climate Change के अधिसूचना संख्या S.O. 3611 (E), date 25.07.2018 के आलोक में Public Viewing एवं Comments हेतु जिला के वेबसाईट <https://hazaribagh.nic.in> में Upload किया गया है, जो Public Domain पर 21 दिनों तक उपलब्ध रहेगी। अतः आमजनों एवं Stakeholders से अनुरोध है कि तैयार Draft DSR लघु खनिज पत्थर आदि (बालू छोड़कर) के बावत सुझाव एवं Comments उपायुक्त, हजारीबाग के कार्यालय अथवा जिला खनन कार्यालय, हजारीबाग में पत्र के माध्यम से भेजा जा सकता है।

ह0/-  
उपायुक्त,  
हजारीबाग

PR 332258 Mines and Geology (24-25)\_D

**कार्यालय, जिला शिक्षा अधीक्षक-सह-अनुमण्डल**  
**शिक्षा पदाधिकारी, कोडरमा**  
समाहर्तालय भवन, रौंघी-पटना रोड, कोडरमा-825410, झारखण्ड, ई-मेल-koderma.mdm@gmail.com

**आम-सूचना**

एतद द्वारा सूचित किया जाता है कि माननीय उच्च न्यायालय झारखण्ड, रौंघी द्वारा एल.पी.ए. संख्या 203/2022 एवं अन्य संबंधित तथा सदृश्य वादों में पारित न्यायादेश के अनुपालन हेतु स्कूली शिक्षा एवं साक्षरता विभाग, झारखण्ड, रौंघी की अधिसूचना/संकल्प संख्या 283 दिनांक 28.02.2024 के आलोक में प्रारंभिक शिक्षक नियुक्ति नियमावली 2012(यथा संशोधित) के आधार पर कोडरमा जिलान्तर्गत प्रकाशित विज्ञापित पद के विरुद्ध दिनांक 03.08.2019 तक की अंतिम काउंसिलिंग के अन्तर्गत सहायक शिक्षकों की नियुक्ति के परचात शेष बचे रिक्त पदों पर एकबारगी अंतिम अवसर के रूप में काउंसिलिंग की प्रक्रिया संकल्प संख्या 283 दिनांक 28.02.2024 की कड़िका 13 के क्रम संख्या I-XII में निहित शर्तों के अधीन दिनांक 01.08.2024 को की गई। निदेशक, प्राथमिक शिक्षा, स्कूली शिक्षा एवं साक्षरता विभाग, झारखण्ड रौंघी के पत्रांक 1001 दिनांक 06.08.2024 के निर्देशानुसार पुनः काउंसिलिंग की प्रक्रिया को निम्नांकित रूप से विस्तारित की जाती है:-

क्र.सं.	निर्धारित अवधि	निर्धारित अवधि
01	दिनांक 31.07.2024 को जिले के आधिकारिक Website-Koderma.nic.in पर प्रकाशित कोटिवार संशोधित रिक्त एवं विचारण क्षेत्र अन्तर्गत आने वाले अभ्यर्थियों की संशोधित सूची कोटिवार ( कट ऑफ मार्क्स के साथ) पुनः अभ्यर्थियों से दावा/आपति प्राप्त किए जाने हेतु जिले के आधिकारिक Website-Koderma.nic.in पर प्रकाशन।	09.08.2024
02	प्रकाशित विचारण क्षेत्र अन्तर्गत आने वाले अभ्यर्थियों की संशोधित सूची जिले के आधिकारिक Website-Koderma.nic.in पर देखी जा सकती है। दावा/आपति निबधित डाक के माध्यम से अथवा जिला शिक्षा अधीक्षक-सह-अनुमण्डल शिक्षा पदाधिकारी, कार्यालय कोडरमा मे उपस्थित होकर आवेदन के माध्यम से समापित की जा सकती है।	10.08.2024 से
03	दिनांक 01.08.2024 को काउंसिलिंग में भाग लिए अभ्यर्थी जिनका मूल प्रमाण-पत्र/अंकपत्र जिले में समापित किया गया है के द्वारा आवेदन समापित कर मूल प्रमाण-पत्र/अंकपत्र की मांग करने की स्थिति में उनको अपना अभ्यर्थित्व/दावेदार/उपस्थिति समाप्त माने जाने का आवेदन कार्यालय को समापित कराना अनिवार्य होगा। तथा मूल प्रमाण-पत्र/अंकपत्र कार्यालय से प्राप्त करने की अंतिम तिथि-	17.08.2024 20.08.2024
04	विचारण क्षेत्र अन्तर्गत आने वाले अभ्यर्थियों की संशोधित सूची (कट ऑफ मार्क्स के अनुसार) जिले के आधिकारिक Website-Koderma.nic.in पर प्रकाशन की तिथि-	22.08.2024
05	दिनांक 22.08.2024 को प्रकाशित विचारण क्षेत्र अन्तर्गत आने वाले अभ्यर्थियों की सूची के आलोक में अर्हतापारी अभ्यर्थियों की काउंसिलिंग की तिथि-	25.08.2024
06	अंतिम घयन सूची का जिले के आधिकारिक Website-Koderma.nic.in पर प्रकाशन की तिथि-	01.09.2024

ह0/-  
जिला शिक्षा अधीक्षक-सह-अनुमण्डल

PR 332287 School Education and Literacy



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**Annexure - VI**  
**Test report data received from**  
**JSPCB**

**Annexure - VI**

**Test report data received from**

**JSPCB**

Sl. No.	Parameter	Value
1	...	...
2	...	...
3	...	...
4	...	...
5	...	...
6	...	...
7	...	...
8	...	...
9	...	...
10	...	...

*[Signature]*

**Approved**

State Level Environment Impact Assessment Authority  
Jharkhand, Ranchi



*[Handwritten mark]*



### Test Report as per JSPCB

Sl. No.	Name of the Leasee	PM 10	SOX	NOX
1	M/S Ganpati Stone Enterprises			
2	M/S Laborious Construction Pvt. Ltd.	64.73	12.3	23
3	M/S Murumatu Stone Mines	84.49	13.3	30.18
4	M/S Ramcon Infrastructures Pvt. Ltd.	70.02	15.24	31.69
5	M/S Golden Stone harvest Pvt. Ltd.			
6	M/S J.C Stone Works	69.56	9.46	23.33
7	M/S Saroj Stone	75.87	9.04	25.18
8	M/S Maa Saraswati Stone Chips Works			
9	M/S Ganesh Stone Works	82.93	6.93	27.16
10	M/S Jai Hanuman Stone Works	93.67	13.77	15.95
11	Shri Chandradhari Prasad			
12	M/S Vikas Minerals			
13	M/S Jai Shree Ram Stone Mines	63.33	10.56	21.2
14	Shri Nageshwar Rana and others	12	9.36	7.76
15	M/S Shree Shantinath Minerals	86.59	6.37	25.65
16	Shri Bhagirath Yadav			
17	M/S Maa Jagdamba Stone Works	74.33	9.96	22.33
18	M/S Jannijara Stone Mines			
19	M/S Kushumbhha Stone Deposit			
20	M/S Bhole Shankar Stone Works	72.53	7.32	19.16
	<b>Average</b>	<b>70.83</b>	<b>10.3</b>	<b>22.71</b>

Source: Central Pollution control board series CUPS/8z/2014-15

The Air Quality Index (AQI) is 71 which falls into the "Satisfactory" category indicating that air quality is generally acceptable with Minor breathing discomfort to sensitive people.

Air Quality index (AQI) values	Levels of health concern	Description	Color
0-50	Good	Minimal Impact	Dark Green
51-100	Satisfactory	Minor breathing discomfort to sensitive people	Light Green
101-150	Moderate	Breathing discomfort to the people with Lung, heart disease, children and other adults.	Lemon Yellow
151-200	Poor	Breathing discomfort to people on prolonged exposure	Yellow
201-300	Very Poor	Respiratory illness to the people on prolonged exposure	Red
301-500	Severe	Respiratory effects even on healthy people.	Brown



*(Signature)*



पत्रांक... 1418...

### झारखण्ड राज्य प्रदूषण नियंत्रण पर्वद,

क्षेत्रीय कार्यालय-सह-प्रयोगशाला, पी0टी0सी0 चौक, मटवारी रोड, हजारीबाग।

दिनांक... 13/9/24

प्रेषक,

जितेन्द्र प्रसाद सिंह,  
क्षेत्रीय पदाधिकारी।

सेवा मे.

जिला खनन पदाधिकारी,  
हजारीबाग।

विषय : हजारीबाग जिला में अवस्थित पत्थर खनन पट्टा का परिवेशीय, वायु की गुणवत्ता का विश्लेषण प्रतिवेदन उपलब्ध कराने के सम्बंध में।

महाशय,

उपर्युक्त विषय के संबंध में सूचित करना है कि हजारीबाग जिला में अवस्थित पत्थर खनन पट्टा का परिवेशीय, वायु की गुणवत्ता का विश्लेषण प्रतिवेदन की प्रति संलग्न कर भेजी जा रही है।

विश्वासभाजन

MP 885  
13.09.2024  
(जितेन्द्र प्रसाद सिंह)  
क्षेत्रीय पदाधिकारी





# INSTITUTE FOR ENVIRONMENTAL MANAGEMENT ECO ENVIRO LAB

ISO 9001:2015 (QMS), ISO 45001:2018 (OHSAS); NABL & JSPCB Accreditation  
2208/A, Jagannath Nagar, Pundag Road, Near Anand Gas Godown, Argora, Ranchi, Jharkhand - 834012.  
Email ID - [iem2012@rediffmail.com](mailto:iem2012@rediffmail.com), Mob. No. - 8407804253.

## Ambient Air Quality Test Report

<b>Client Name &amp; Address:</b> M/s Jai Hanuman Stone Works At - Churchu, PO - Ichak, PS+Block - Sadar, Dist. - Hazaribagh, Jharkhand.	<b>Sample Details :</b> Type of Industry: Stone Mine Sample Description: Ambient Air Sampling Date: 27-01-2021 to 28-01-2021 Sample Registration Date: 28-01-2021
<b>Test Report No:</b> IEM/EEL/RAN/AAQ/0356A <b>Application No.:</b> 9867183, Date: 25.01.2021, Time 12:41 <b>Report Issue Date:</b> 03-02-2021 <b>Protocol:</b> IS Method & CPCB Guideline	<b>Customer Rept.:</b> Mr. Kailash Prasad <b>Sample Drawn By:</b> Sumit Srivastava & team

### METEROLOGICAL INFORMATION

Average Temp(°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)	Weather Condition	Wind Direction
20	60	746.8	Sunny	NNE

### Concentration in Ambient Air (Industrial, Residential, Rural and Other Area) Time Weighted Average- 24 Hours

Parameters	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	
Method Name	Improved West & Gaeke method	Jackob & Hochheiser Modified Method	Gravimetric Method	
NAAQMS/36/2012-13	IS 5182 (Part-02)	IS 5182 (Part-06)	IS 5182 (Part-23)	
Sampling Point	Co- ordinate	Concentration in Ambient Air as per NAAQS- 2009 For 24 Hours		
		80	100	
Near West Corner	24°02'28.14"N 85°24'42.73"E	13.29	15.58	85
Near North Corner	24°02'30.02"N 85°24'44.99"E	13.84	15.91	94
Near South East Corner	24°02'26.57"N 85°24'47.32"E	14.17	16.36	102
Average		13.77	15.95	93.67

\*\*\*\*End of Report\*\*\*\*



*Shreyas*  
Tested by  
Analyst

*[Signature]*  
Checked By  
(Sunil Kumar Singh)  
(Lab Incharge cum Technical Manager)

*[Signature]*  
Authorized Signatory  
(Dr. S. C. Jain)  
(Director & QC Manager)

Note:-1. The results refer only to the tested sample of applicable parameters. 2. The sample will be preserved for a maximum of 7 days on request from the date of issue of the certificate. 3. The certificate shall not be reproduced in part or full and can't be used as evidence or in court of law without prior permission in writing. 4. All disputes are subjected to Ranchi jurisdiction.



# INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

## ECO ENVIRO LAB

ISO 9001:2015 (QMS), ISO 45001:2018 (OHSAS); NABL & JSPCB Accreditation  
2208/A, Jagannath Nagar, Pundag Road, Near Anand Gas Godown, Argora, Ranchi, Jharkhand – 834012.  
Email ID – [iem2012@rediffmail.com](mailto:iem2012@rediffmail.com), Mob. No. – 8407804253.

### Ambient Noise levels Monitoring Report

<b>Client Name &amp; Address:</b> M/s Jai Hanuman Stone Works At - Churchu, PO - Ichak, PS+Block - Sadar, Dist. - Hazaribagh, Jharkhand.	<b>Sample Details:</b> Type of Industry: Stone Mine Sample Description: Ambient Noise Sampling Date: 27-01-2021 to 28-01-2021 Sample Registration Date: 28-01-2021
<b>Test Report No:</b> IEM/EEL/RAN/NOISE/0356B <b>Application No.:</b> 9867183, Date: 25.01.2021, Time 12:41 <b>Report Issue Date:</b> 03-02-2021 <b>Protocol:</b> IS Method & CPCB Guideline	<b>Customer Rept.:</b> Mr. Kailash Prasad <b>Sample Drawn By:</b> Sumit Srivastava & team

METEROLOGICAL INFORMATION				Location & Co-ordinate	
Average Temp (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)	Weather Condition:	A <sub>1</sub>	Near West Corner 24°02'27.71"N 85°24'42.49"E
				B <sub>1</sub>	Near North Corner 24°02'30.45"N 85°24'44.04"E
20	60	746.8	Sunny	C <sub>1</sub>	Near South East Corner 24°02'27.20"N 85°24'47.72"E

Equivalent Continuous Sound Level (Leq) in dB												
Time Weighted Average 'A' of the level of Sound in decibels on scale A												
Result (4 hours Interval)									CPCB Limit in dB(A)			
Sound Level-Leq dB(A)									Area Code	Category of Area Zone	Day Time (6 AM to 10PM)	Night Time (10 PM to 6 AM)
Day Time (DT) (6 AM to 10PM)					Night Time (NT) (10 PM to 6 AM)							
Sampling Point	DT <sub>1</sub> (06-10)	DT <sub>2</sub> (10-02)	DT <sub>3</sub> (02-06)	DT <sub>4</sub> (06-10)	AVG.	NT <sub>1</sub> (10-02)	NT <sub>2</sub> (02-06)	AVG.	A	Industrial Area	75	70
A <sub>1</sub>	65.2	76.3	75.7	64.2	70.35	48.3	48.5	48.40	B	Commercial Area	65	55
B <sub>1</sub>	64.7	75.9	75.2	64.3	70.02	48.4	48.7	48.55	C	Residential Area	55	45
C <sub>1</sub>	64.5	76.1	75.4	63.9	69.98	47.9	48.2	48.05	D	Silence Zone	50	40

\*\*\*\*End of Report\*\*\*\*

Remarks: - Average values are observed well within the prescribed limit for industrial area.

*Shreyansh*  
Tested by  
Analyst

*(Signature)*  
Checked By  
(Sunil Kumar Singh)  
(Lab in charge cum Technical Manager)



*(Signature)*  
Authorized Signatory  
(Dr. S.C. Jain)  
(Director & QC Manager)

Note:-1. The results refer only to the tested sample of applicable parameters. 2. The sample will be preserved for a maximum of 7 days on request from the date of issue of the certificate. 3. The certificate shall not be reproduced in part or full and can't be used as evidence or in court of law without prior permission in writing. 4. All disputes are subjected to the Ranchi jurisdiction.



JHARKHAND STATE POLLUTION CONTROL BOARD,  
R.O. CUM - LABORATORY, HAZARIBAG.  
**AMBIENT AIR QUALITY REPORT**  
R & D Cell

Lab. Ref. No. 21  
Application no. - 15996223  
Date - 02.04.2023

Date- 19.06.2023

Name of Industry: **M/s Murumatu Stone Mines.**  
**At - Murumatu, P.O.+PS - Tatijharia**  
**Dist-Hazaribagh**

No.of Sampling points: 03

Date of Sampling: **11-12.06.2023**

**Sampling Position**

Whether condition: **Clear**

1. Near Main Intrace.
2. Near South East Boundary corner.
3. Near North South Boundary

Time	SO <sub>2</sub>	NO <sub>x</sub>	RSPM
<b>Point 1</b>			
11.00 AM to 03.00 PM	14.10	28.12	-
03.00 PM to 07.00 PM	12.74	30.40	90.26
07.00 PM to 11.00 PM	10.66	32.20	-
11.00 PM to 03.00 AM	18.20	31.62	78.20
Maximum	18.20	32.20	90.26
Average	13.92	30.59	84.23
<b>Point 2</b>			
11.10 AM to 03.10 PM	12.70	30.20	-
03.10 PM to 07.10 PM	10.18	28.60	95.14
07.10 PM to 11.10 PM	09.60	34.70	-
11.10 PM to 03.10 AM	16.30	32.92	82.30
Maximum	16.30	34.70	95.14
Average	12.19	31.60	88.72
<b>Point 3</b>			
11.20 AM to 03.20 PM	14.80	26.50	-
03.20 PM to 07.20 PM	12.20	28.10	88.30
07.20 PM to 11.20 PM	10.10	30.60	-
11.20 PM to 03.20 AM	18.12	28.20	72.76
Maximum	18.12	30.60	88.30
Average	13.80	28.35	80.53

NOTE: All values are expressed in micro gram/cubic meter.

Remarks: **The Average value of RSPM at all points were found within the prescribed standard limit of 100 µg/m<sup>3</sup>.**



*Chakraborty*  
19/6/2023  
(C.K. Yadav)  
A. S.O.

*A*  
19/6/2023  
(A.K. Yadav)  
Regional Officer  
Board Analyst

*2*



**Jharkhand State Pollution Control Board**  
**Regional Office- Cum- Laboratory, Hazaribag**

**NOISE MONITORING REPORT**  
**R & D Cell**

Lab. Ref. No. 21  
Application no. - 15996223  
Date - 02.04.2023

Date- 19.06.2023

The equivalent noise level in Leq dB(A) at various locations inside **M/s Murumatu Stone Mines.**  
**At - Murumatu, P.O.+PS - Tatijharia Dist-Hazaribagh** on 11.06.2023 at day time ( from 6.00 A.M.  
to 10.00 P.M. ) is as follows : -

<u>Sl.no.</u>	<u>Locations</u>	<u>Time</u>	<u>Noise level dB(A)</u>
1.	Near Main Gate	12.10 PM to 12.15 PM	72.5
2.	Near West North Boundary	12.20 PM to 12.25 PM	68.1
3.	Near South East Boundary	12.30 PM to 12.35 PM	70.5

**REMARKS :** The values of Noise level were found within the prescribed Standard limit of Leq 75 dB(A).

*CK Yadav*  
19/6/2023  
(C.K. Yadav)  
A.S.O.

*A*  
19/6/2023  
(A.K. Yadav)  
Regional Officer  
Board Analyst

*[Handwritten signature]*





# ENVIROCHECK

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Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018



## TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Ganesh Stone Works	Type of Industry	: Stone Boulder Unit
Address	: At. Churchu, P.O. - Bariyath, P.S. - Sadar, Dist. - Hazaribag	Sampling Date	: 27.01.2021 - 28.01.2021
		Period of Analysis	: 29.01.2021 - 29.01.2021
		Date of Issue	: 30.01.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: 210/EC/J/M/A/I	Report No.	: 210/EC/J/M/TR(A)/1/20-21

### A) GENERAL INFORMATION

1. Location of Sampling : Near Entrance
2. Duration of Sampling : 24 hrs. (09:40 a.m. - 09:40 a.m.)

### B) METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 16.5
2. Average Relative Humidity (%) : 43.0
3. Barometric Pressure (mm of Hg) : 759.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear sky

### C) RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM <sub>2.5</sub>	µg/m <sup>3</sup>	USEPA 1997a, 40 CFR Part 50, Appendix L	51.20	60.0
2.	Concentration of PM <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 (PART 23) : 2006	86.10	100.0
3.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	7.80	80.0
4.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	30.0	80.0

Remarks : Result shows that all parameters are within limit as per JSPCB.

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul, Quality Manager)



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## TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Ganesh Stone Works	Type of Industry	: Stone Boulder Unit		
Address	: At. Churchu, P.O. - Bariyath, P.S. - Sadar, Dist. - Hazaribag	Sampling Date	: 27.01.2021 - 28.01.2021		
		Period of Analysis	: 29.01.2021 - 29.01.2021		
		Date of Issue	: 30.01.2021		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample ID No.	: 210/EC/I/M/A/II	Report No.	: 210/EC/I/M/TR(A)/II/20-21		

### A] GENERAL INFORMATION

1. Location of Sampling : Near Labour Room
2. Duration of Sampling : 24 hrs. (10:00 a.m. - 10:00 a.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 16.5
2. Average Relative Humidity (%) : 43.0
3. Barometric Pressure (mm of Hg) : 759.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear sky

### C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM <sub>2.5</sub>	µg/m <sup>3</sup>	USEPA 1997a, 40 CFR Part 50, Appendix L	48.50	60.0
2.	Concentration of PM <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 (PART 23) : 2006	80.10	100.0
3.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	6.20	80.0
4.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	25.0	80.0

Remarks : Result shows that all parameters are within limit as per JSPCB.

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul, Quality Manager)



H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 [ 033-25792891/25497490, Fax : 033-25299141  
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## TEST REPORT

FORMAT NO : ENV/EM/37

Name of the Industry	: Ganesh Stone Works	Type of Industry	: Stone Boulder Unit		
Address	: At. Churchu, P.O. - Bariyath, P.S. - Sadar, Dist. - Hazaribag	Sampling Date	: 27.01.2021 - 28.01.2021		
		Period of Analysis	: 29.01.2021 - 29.01.2021		
		Date of Issue	: 30.01.2021		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample ID No.	: 210/EC/J/M/A/III	Report No.	: 210/EC/J/M/TR(A)/III/20-21		

### A] GENERAL INFORMATION

1. Location of Sampling : Near Office
2. Duration of Sampling : 24 hrs. (10:10 a.m. - 10:10 a.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 16.5
2. Average Relative Humidity (%) : 43.0
3. Barometric Pressure (mm of Hg) : 759.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear sky

### C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM <sub>2.5</sub>	µg/m <sup>3</sup>	USEPA 1997a, 40 CFR Part 50, Appendix L	49.10	60.0
2.	Concentration of PM <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 (PART 23) : 2006	82.60	100.0
3.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	6.80	80.0
4.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	26.50	80.0

Remarks : Result shows that all parameters are within limit as per JSPCB.

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul, Quality Manager)



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FORMAT NO.: ENV/FM/58

## TEST REPORT

1.	Name of the Industry	:	Ganesh Stone Works
2.	Address	:	At. Churchu, P.O. - Bariyath, P.S. - Sadar, Dist. - Hazaribag
3.	Type of Industry	:	Work Shop Centre
4.	Sampling Plan & Procedure	:	ENV/SOP/01
5.	Deviation from the Sampling Method & Plan	:	No
6.	Type of Sample	:	Noise
7.	Sample ID	:	ENV/210A/I/N
8.	Report ID	:	ENV/210A/I/TR(N)/20-21
9.	Date of Study	:	27.01.2021
10.	Reporting Date	:	30.01.2021
11.	Method No.	:	IS: 9989 - 1981
12.	Time of Duration of Noise	:	20 Minutes
13.	Height from Ground Level	:	4 feet

### RESULT OF NOISE LEVEL STUDY

1. Location of Study : Near Entrance			
Time (A.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
10:10 - 10:30	63.5	73.2	68.5
3. Location of Study : Near Labour Room			
Time (A.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
11:10 - 11:30	61.8	68.5	63.89
4. Location of Study : Near Office			
Time (A.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
11:30 - 12:00	60.1	69.5	63.48
** Mean of $L_{eq}$ - Equivalent to Sound Energy Limit in Leq dB(A)			
Category Area	Day Time dB(A)	Night Time dB(A)	
A. Industrial Area	75	70	
B. Commercial Area	65	55	
C. Residential Area	55	45	
D. Silence Zone	50	40	
**Day Time is reckoned in between 6:00 A.M & 10:00 P.M		**Night Time is reckoned in between 10:00 P.M & 6:00 A.M	
(Central Pollution Control Board, Ministry of Environment & Forests Government of India) & (Department of Environment, Government of West Bengal)			

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Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018



PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS	
Hours	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
1/4	105
1/8	108
1/16	111
1/32	114
(2 minutes or less)	-

\*\* The Noise Pollution (Regulation and Control Rules, 2000  
\*\* S.O. 123 (E) Dated : 14<sup>th</sup> February, 2000

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul, Quality Manager)

>End of Report<



H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 { 033-25792891/25497490, Fax : 033-25299141  
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# Sun-Tech

40 P Tupudana Industrial Area, Ranchi-834003, Jharkhand

TEL.- 7808266661/2/3

Accredited as per ISO/IEC 17025: 2017 by NABL



TC-5432

## TEST REPORT

Test Report No.	ST/TR/22/09/4243	ULR No.	TC543222000004343F	Job Code:	M1070922
Date of receipt	24-09-2022	Date of issue of Test Report	26-09-2022		
Customer's Name & Address	KURKUTTA STONE DEPOSIT OF M/S BHOLE SHANKAR STONE WORKS MAUZA - KURKUTTA , PO- & PS- GIDDI, DIST- HAZARIBAGH, JHARKHAND.				
Customer's Letter No.	LETTER REF. NO.:- NIL	DATE:-24/09/2022			

### SAMPLE DETAILS:

Sample No.	A10151, A10152, A10153, A10154	Material/ Item:	ABSORBED POLLUTANT IN GFA & IMPINGER FROM SITE
Material Condition	GOOD	Environmental condition:	Laboratory Temperature at time Analysis : 27°C
Standard Applicable for testing	IS: 5182(P-23):2006 , IS: 5182 (P-2): 2001, IS: 5182 (P-6): 2006, IS: 5182 (P-24):2019	Deviation in testing from Standard	NO
Application No	14351591	Application Date & time	23/09/2022(09:19)
Nature of Industry	STONES MINES	Date of Sampling	23-09-2022 - 24-09-2022
SAMPLING	Done by Laboratory	Done by Customer	
IF, SAMPLING DONE BY LAB:ORATORY	Sampling Location	LAT: 23.42380	LONG: 85.204590
	Sampling Method/ Sampling Plan	ST/SOP/AAQ/01	
	Environmental Condition	Temperature: 30°C	
	Sample Collected by	SUKANTA, TANMAY	
Sample analysis Start date:	24-09-2022	Sample analysis End date:	26-09-2022

## TEST RESULTS

MATERIAL		AMBIENT AIR		Discipline/ Group		CHEMICAL / ATMOSPHERIC POLLUTION		
SAMPLE NO	Test Parameters	OUTLET				Method Reference	REQUIREMENT (ACCEPTABLE LIMITS)	Conformity
		WEST CORNER	SOUTH CORNER	NORTH CORNER	AVERAGE			
A10151	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	73.88	73.11	70.59	72.53	IS: 5182 (P-23):2006	100 µg/m <sup>3</sup> , Max.	YES
A10152	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	7.41	7.16	7.38	7.32	IS: 5182 (P-2): 2001	80 µg/m <sup>3</sup> , Max.	YES
A10153	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	19.41	19.17	18.91	19.16	IS: 5182 (P-6): 2006	80 µg/m <sup>3</sup> , Max.	YES
A10154	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	49.31	44.91	45.20	46.47	IS: 5182 (P-24):2019	60 µg/m <sup>3</sup> , Max.	YES

Note:- \*As per National Ambient Air Quality Standards by Central Pollution Control Board (CPCB) Notification, New Delhi 18/11/2009

REMARK (if any) :- OK

\*\*\*\*\*END OF REPORT\*\*\*\*\*

Done By:-SUKANTA, TANMAY

SR. SCIENTIST:-SUKANTA MAHATO

SR. SCIENTIST ASSTT.: TANMAY DUTTA

Declarations: 1. Sample will be retained for three months from the testing 2. The test results relates only to the sample as received or sampled for testing and as per applicable parameters. 3. The report can not be used as an evidence in the court of law , without written approval of Laboratory can provide assurance that parts of a report are not taken out of context 4. All disputes subject to Ranchi Jurisdiction only.



Reviewed By:

*Sukanta Mahato*

Page No.1 of 1



Authorised Signatory



CIN:-U74999JH2022PTC019685

# EPIC LabTech Private Limited

Laboratory Services Division

Certified by :- ISO 9001:2015 (Quality Management System),  
ISO 45001:2018 (Occupational Health & Safety Management System)  
Accredited by :- Jharkhand State Pollution Control Board

## Analytical Test Report

Test Report (QMS – 9001:2015)			Issue date	08.04.2023
Disipline	Chemical Group	Atmospheric Pollution	Sub Group	Ambient Air
Issue to	M/s – Laborious Construction Pvt. Ltd., Murumatu, Tatijharia, Hazaribagh, Jharkhand		Unique Lab Report	N/A
			Contact Person	Mr. Om Prakash Mehta
			Contact Number	9386309657
			Email Id	N/A
Application No.	1568636		Order Date	25.02.2023
<b>QMS References ( Steps of Traceability Chain )</b>				
Customer Registration No.	EPIC/Lab/0015	Sampling Vaucher Number	EPIC/Lab/0015/01	
Lab Assignment Number	EPIC/Lab/L/0015/01/01	Sample's Lab Code	EPIC/Lab/L/0015/01/01/AP01	
Sampling Reference	EPIC/Lab/F/0015	Industry Type	Stone Mines	
Sampling Start (D/T)	01.04.2023 / 16:50	Sampling End (D/T)	02.04.2023 / 11:30	
Sampling Status	Conducted ✓	Received ✗	Sample collected by Lab's representative	
Sampling method used	IS 5182 and CPCB Air Manual Volume – 1 (NAAQM/36/2012-13)			
Weather condition	Temperature (°C)	26	Humidity %	59
			Wind direction	0° - 180°
S. Location A	North Corner of stone mines lease area		GPS coordinate	24°00' 59.92" / 85°38' 27.31"
S. Location B	South West Corner of stone mine lease area		GPS coordinate	24°00' 57.82" / 85°38' 24.90"
S. Location C	South-East corner of stone mines lease area		GPS coordinate	24°00' 57.58" / 85°38' 26.32"
Test performed at laboratory's permanent facility and results relate only to the sample tested in prescribed Date & time Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5 % in all testing area as per IS 196:1966				
Test start date	03.04.2023/ 11:00		Test completion date	07.04.2023/18:10

Sl	Test Parameters	Method used	Unit	Results			Limits	MU%	DR
				A	B	C			
1.	Particulate matter (PM <sub>10</sub> )	IS:5182 (P-23) 2006	µg/m <sup>3</sup>	62.0	65.1	67.1	100	± 2.6	✓
2.	Particulate matter (PM <sub>2.5</sub> )	IS:5182(P-24) 2019	µg/m <sup>3</sup>	26.8	29.1	31.4	60	± 7.8	✓
3.	Sulphure Dioxide (SO <sub>2</sub> )	IS:5182 (P-2) 2001 RA 2012	µg/m <sup>3</sup>	10.9	13.9	12.1	80	± 4.2	✓
4.	Nitrogen Dioxide (NO <sub>2</sub> )	IS:5182 (P-6) 2006 RA 2012	µg/m <sup>3</sup>	18.8	25.7	24.5	80	± 6.3	✓
				AQI	●	●	●	Satisfactory	

-Test result End -

**Health Consequence** Minor breathing discomfort to sensitive people  
**Statement of conformity** Results comply with prescribed limit of EPA 1986

(Decision rule employed, taking into account the level of risk as per statistical assumptions)

**Opinions and interpretations** Unit was not in operation during sampling, applied for CTO renewal.

- Contratual Notes**
- The laboratory accepts responsibility for content of this report.
  - This report shall not be reproduced except in full, without written approval of the Chief Executive Officer.
  - This report is intended for only guidance and not for legal purpose or for advertisement.
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**QC checks** Calibration of Equipment checked ✓ Reference Material checked ✓ Laboratory Technical record checked ✓



*[Signature]*  
Verified by  
Technical Head



*[Signature]*  
Issue 8/4/23  
Laboratory Head



# EPIC LabTech Private Limited

Laboratory Services Division

Certified by :- ISO 9001:2015 (Quality Management System),  
ISO 45001:2018 (Occupational Health & Safety Management System)  
Accredited by :- Jharkhand State Pollution Control Board

## Analytical Test Report

Test Report (QMS – 9001:2015)			Issue date	08.04.2023	
Discipline	Chemical	Group	Atmospheric Pollution	Sub Group	Ambient Noise
Issue to	M/s – Laborious Construction Pvt. Ltd., Murumatu, Tatijharia, Hazaribagh, Jharkhand		Unique Lab Report	N/A	
			Contact Person	Mr. Om Prakash Mehta	
			Contact Number	9386309657	
			Email Id	N/A	
Application No.	1568636		Order Date	25.02.2023	
QMS References (Steps of Traceability Chain)					
Customer Registration No.	EPIC/Lab/0015		Sampling Vaucher Number	EPIC/Lab/0015/01	
Lab Assignment Number	EPIC/Lab/L/0015/01/02		Sample's Lab Code	EPIC/Lab/L/0015/01/02/AP01	
Sampling Reference	EPIC/Lab/F/0015		Industry Type	Stone Mines	
Sampling Start (D/T)	01.04.2023 / 16:50		Sampling End (D/T)	02.04.2023 / 11:30	
Sampling Status	Conducted	✓	Received	✗	Sample collected by
					Lab's representative
Sampling method used	IS 9876:1981 (RA 2007) & CPCB Method S.O.50 (E) dated 11/01/2010				
Weather condition	Temperature (°C)	26	Humidity %	59	Wind direction
					0° - 180°
S. Location A	North Corner of stone mines lease area		GPS coordinate	24°00' 59.92" / 85°38' 27.31"	
S. Location B	South West Corner of stone mine lease area		GPS coordinate	24°00' 57.82" / 85°38' 24.90"	
S. Location C	South-East Corner of stone mines lease area		GPS coordinate	24°00' 57.58" / 85°38' 26.32"	
Test performed at laboratory's permanent facility and results relate only to the sample tested in prescribed Date & time Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5 % in all testing area as per IS 196:1966					
Test start date	03.04.2023/ 11:00		Test completion date	07.04.2023/18:10	

Sl	Test Parameters	Method used	Unit	Results			Limits	MU%	DR
				A	B	C			
1.	Leq (Day time)	IS: 9989:1981	dB (A)	59.4	57.4	55.0	75	± 1.0	✓
2.	Leq (Night time)	IS: 9989:1981	dB (A)	50.0	42.6	42.1	70	± 1.0	✓
3.	Level Max (L max)	IS: 9989:1981	dB (A)	61.8	61.9	61.6	-	-	
4.	Level Min (L min)	IS: 9989:1981	dB (A)	42.7	39.0	38.5	-	-	

	Area	Day Time		Night time	
		A	B	C	D
• Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority.	A	Industrial Area	75.0	70.0	
• Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.	B	Commercial Area	65.0	55.0	
• dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale(A) which is relatable to human hearing.	C	Residential Area	55.0	45.0	
	D	Silence Zone	50.0	40.0	

**Health Consequence** Fear for conversation.

**Statement of conformity** Results comply with E(P)A Rules, 1986 limit.

(Decision rule employed, taking into account the level of risk as per statistical assumptions)

**Opinions and interpretations** Plant was not in operation during sampling, applied for CTO.

**Contractual** 1. The laboratory accepts responsibility for content of this report.

**Notes** 2. This report shall not be reproduced except in full, without written approval of the Chief Executive Officer.

3. This report is intended for only guidance and not for legal purpose or for advertisement.

4. Any complaint about this report should be communicated in writing within 7 days of its issue.

5. Total liability of EPIC LabTech Pvt/ Ltd. will be limited to invoiced amount only.

6. In case of feedback/ complaints, please send an email at [epiclabtech@gmail.com](mailto:epiclabtech@gmail.com)

**QC checks** Calibration of Equipment checked ✓ Reference Material checked ✓ Laboratory Technical record checked ✓



Verified by  
Technical Head



Issue by  
Laboratory Head



# Sun-Tech

40 P Tupudana Industrial Area, Ranchi-834003, Jharkhand

TEL.- 7808266661/3

Accredited as per ISO/IEC 17025: 2017 by NABL

Industrial & Analytical Testing laboratory



## TEST REPORT

Test Report No.	ST/TR/23/12/2917	Job Code:	M0261223
Date of receipt	05-12-2023	Date of Issue of Test Report	08-12-2023
Customer's Name & Address	KUNHARA KALAN STONE DEPOSIT M/S SAROJ STONE, MOUZA - KUNHARA KALAN, P O - BARKATHA, P S - BARKATHA, DIST - HAZARIBAGH		
Customer's Letter No.	LETTER REF. NO.: - NA	DATE: -	03-12-2023

### SAMPLE DETAILS:

Sample No.	A19813, A19814, A19815, A19816	Material/ Item:	ABSORBED POLLUTANT IN GFA & IMPINGER FROM SITE
Material Condition	GOOD	Environmental condition:	Laboratory Temperature at time Analysis : 27°C
Standard Applicable for testing	IS: 5182(P-23):2006 , IS: 5182 (P-2): 2001, IS: 5182 (P-6): 2006, IS: 5182 (P-24):2019	Deviation in testing from Standard	NO
Application No	17920266	Application Date & time	03-12-2023(09:58)
Nature of Industry	STONE MINES	Date of Sampling	04.12.2023 - 05.12.2023
SAMPLING	Done by Laboratory	Done by Customer	
IF, SAMPLING DONE BY LABORATORY	Sampling Location		
	Sampling Method/ Sampling Plan	ST/SOP/AAQ/01	
	Environmental Condition	Temperature: 26°C	
	Sample Collected by	SUKANTA, SANUP	
Sample analysis Start date:	05-12-2023	Sample analysis End date:	07-12-2023

## TEST RESULTS

MATERIAL		AMBIENT AIR		Discipline/ Group			CHEMICAL / ATMOSPHERIC POLLUTION		
SAMPLE NO	Test Parameters	UNIT	OUTLET				Method Reference	REQUIREMENT (ACCEPTABLE LIMITS)	Conformity
			NEAR ENTRANCE	NORTH-WEST SIDE OF AREA	SOUTH-EAST SIDE OF AREA	AVERAGE			
A19813	Particulate Matter (PM <sub>10</sub> ),	µg/m <sup>3</sup>	77.35	74.94	75.33	75.87	IS: 5182 (P-23):2006	100, Max.	YES
A19814	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	9.26	8.21	9.66	9.04	IS: 5182 (P-2): 2001	80 , Max.	YES
A19815	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	25.28	24.72	25.54	25.18	IS: 5182 (P-6): 2006	80, Max.	YES
A19816	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	51.77	47.53	47.45	48.92	IS: 5182 (P-24):2019	60, Max.	YES

Note:- \*As per National Ambient Air Quality Standards by Central Pollution Control Board (CPCB) Notification, New Delhi 18/11/2009

REMARK (if any) :- OK

\*\*\*\*\*END OF REPORT\*\*\*\*\*

Done By:- SUKANTA, SANUP

SR. SCIENTIST:- SUKANTA MAHATO

SR. SCIENTIST ASSTT.-: SANUP KR. MAHTO

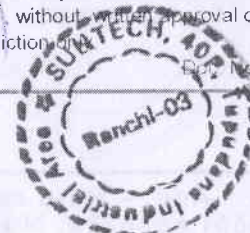
Declarations: 1. Sample will be retained for three months from the testing 2 The test results relates only to the sample as received or sampled for testing and as per applicable parameters. 3. The report can not be used as an evidence in the court of law, without written approval of Laboratory can provide assurance that parts of a report are not taken out of context 4. All disputes subject to Ranchi Jurisdiction



Reviewed By:

*Sukanta Mahato*

Page No.1 of 1



Authorised Signatory

*Sanup Kr. Mahto*



# Sun-Tech

40 P Tupudana Industrial Area, Ranchi-834003, Jharkhand

TEL.- 7808266661/3

Accredited as per ISO/IEC 17025: 2017 by NABL  
Industrial & Analytical Testing laboratory



TC-5432

## TEST REPORT

Test Report No.	ST/TR/23/12/2918	Job Code:	M0261223
Date of receipt	05-12-2023	Date of Issue of Test Report	08-12-2023
Customer's Name & Address	KUNHARA KALAN STONE DEPOSIT M/S SAROJ STONE, MOUZA - KUNHARA KALAN, P O - BARKATHA, PS -BARKATHA, DIST - HAZARIBAGH		
Customer's Letter No.	LETTER REF. NO.:- NIL	DATE:-	03-12-2023

### SAMPLE DETAILS:

Sample No.	A19817	Material/ Item:	NOISE QUALITY RECORDED IN SOUND LEVEL METER AT SITE
Material Condition	GOOD	Environmental condition:	Laboratory Temperature at time Analysis : 27°C
Standard Applicable for testing	IS: 9989 - 1981	Deviation in testing from Standard	NO
Application No	17920266	Application Date & time	03-12-2023(09:58)
Operational Status	YES	Types OF Noise (Indoor/Outdoor)	OUTDOOR
Date of Monitoring	04.12.2023 - 05.12.2023	Weather Condition During Observation	CLOUDY
Time of Observation	DAY & NIGHT	Nature of Industry	STONE MINES

SAMPLING	Done by Laboratory	Done by Customer	
IF, SAMPLING DONE BY LABORATORY	Sampling Location	-	
	Sampling Method/ Sampling Plan	ST/SOP/NQ/01	
	Environmental Condition	Temperature: 26°C	
	Sample Collected by	SUKANTA, SANUP	
Sample analysis Start date:	05-12-2023	Sample analysis End date:	07-12-2023

## TEST RESULTS

MATERIAL	NOISE	Discipline/ Group	CHEMICAL / ATMOSPHERIC POLLUTION			
S. No	Test Parameters	Unit of Measurement	Result	Method Reference	Requirement (Acceptable Limits) As Per IS: 9989 - 1981.	Conformity
1	Ambient Noise Level in Leq (DAY)	dB (A) Leq	62	IS: 9989 - 1981	75 dB (A)Leq Day/Time &	YES
2	Ambient Noise Level in Leq (NIGHT)	dB (A) Leq	50		70dB (A)Leq Night/Time	YES

Done By:- SUKANTA, SANUP

\*\*\*\*\*END OF REPORT\*\*\*\*\*

SR. SCIENTIST:- SUKANTA MAHATO

SR. SCIENTIST ASST.:- SANUP KR. MAHTO

Declarations: 1. Sample will be retained for three months from the testing 2. The test results relates only to the sample as received or sampled for testing and as per applicable parameters. 3. The report can not be used as an evidence in the court of law . without written approval of Laboratory can provide assurance that parts of a report are not taken out of context. 4. All disputes subject to Ranchi Jurisdiction

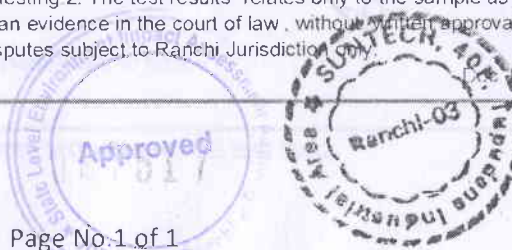
No F01(7 B) Amnd. 08



Reviewed By:

Page No.1 of 1

Authorised Signatory





# SCIENTIFIC RESEARCH LABORATORY

An ISO 9001:2015 (QMS) & OHSMS 45001:2018 Certified Organization

Accredited by Jharkhand State Pollution Control Board

Analytical & Environmental Engineering Laboratory

C- 144, Aman Green City, Pundag, Ranchi- 834 004, Jharkhand

Tele No.: 0651- 4057244, Mobile: 94701 30700, E-mail: nirajksingh2003@yahoo.co.in

## TEST REPORT

Test Report No. : SRL/R/SBE/AAQ/JAN/21/209	Report Issue Date : 16.01.2021
Application No. : 9503876	Application Date : 09.12.2020

Customer's Name & Address	Sample Details
M/s Maa Jagdamba Stone Works. At.: Plot No. 124 - 135 (P), 137 to 140, Khata no. - 97, Mauza - Jugra, Chepakala, P.S.: Barkagaon, District: Hazaribagh, Jharkhand.	Type of Sample : Ambient Air
	Date of Sampling : 12.01.2021 to 13.01.2021
	Sample Receipt Date : 13.01.2021
	Analysis Date : 13.01.2021 to 14.01.2021
	Sample Collected by : SRL Team

Weather Condition: Cloudy	Ambient Temperature (°C) : 31	Relative Humidity (%) : 68
Atmospheric Pressure (mmHg): 752	Wind Speed (km/hr.) : 7.0	Wind Direction : ESE

## TEST RESULTS

Sl. No.	Parameters	Unit	Results	Standards Value*	Test Method
<b>1. Sampling Location: Near Main Entry Gate</b>					
I.	Respirable Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	77.00	100	IS: 5182 (Part- 23) 2006
II.	Respirable Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	45.00	60	IS: 5182 (Part- 24) 2006
III.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	09.80	80	IS: 5182 (Part- 2) 2001
IV.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	22.00	80	IS: 5182 (Part- 6) 2006
<b>2. Sampling Location: Near Western Boundary</b>					
I.	Respirable Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	71.00	100	IS: 5182 (Part- 23) 2006
II.	Respirable Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	39.00	60	IS: 5182 (Part- 24) 2006
III.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	10.60	80	IS: 5182 (Part- 2) 2001
IV.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	23.40	80	IS: 5182 (Part- 6) 2006
<b>3. Sampling Location: Near South – East Boundary</b>					
I.	Respirable Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	75.00	100	IS: 5182 (Part- 23) 2006
II.	Respirable Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	43.00	60	IS: 5182 (Part- 24) 2006
III.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	09.50	80	IS: 5182 (Part- 2) 2001
IV.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	21.60	80	IS: 5182 (Part- 6) 2006

Note: Monitored parameters are well within the prescribed limit)

\*National Ambient Air Quality Standards (NAAQS).

Note:

1. The results relate only to the items sampled and tested.
2. Test report shall not be reproduced except in full without written approval of the laboratory.



B

(Dr. Niraj Kumar Singh)  
Authorized Signatory

-- End of the Report --



# SCIENTIFIC RESEARCH LABORATORY

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Accredited by Jharkhand State Pollution Control Board

Analytical & Environmental Engineering Laboratory

C- 144, Aman Green City, Pundag, Ranchi- 834 004, Jharkhand

Tele No.: 0651- 4057244, Mobile: 94701 30700, E-mail: nirajksingh2003@yahoo.co.in

## TEST REPORT

Test Report No. : SRL/R/SBE/N/JAN/21/210	Report Issue Date : 16.01.2021
Application No. : 9503876	Application Date : 09.12.2020

Customer's Name & Address	Sample Details
M/s Maa Jagdamba Stone Works. At.: Plot No. 124 - 135 (P), 137 to 140, Khata no. - 97, Mauza - Jugra, Chepakala, P.S.: Barkagaon, District: Hazaribagh, Jharkhand.	Type of Sample : Ambient Noise
	Date of Sampling : 12.01.2021 to 13.01.2021
	Sample Receipt Date : 13.01.2021
	Analysis Date : 14.01.2021
	Sample Collected by : SRL Team

## AMBIENT NOISE MONITORING DATA

Sl. No.	Monitoring Location	Date of Monitoring	Sound Pressure Level, dB(A)	
			Day Time (06.00-22.00 hr.)	Night Time (22.00-06.00 hr.)
1.	Near Main Entry Gate	12.01.2021 to 13.01.2021	60.7	50.2
2.	Near Western Boundary	12.01.2021 to 13.01.2021	61.5	51.6
3.	Near South – East Boundary	12.01.2021 to 13.01.2021	57.3	48.4

Norms: National Ambient Air Quality Standards (NAAQS) in respect of Noise as per CPCB, New Delhi,  
Industrial Area: Day Time 75 dB(A) Leq and Night Time 70 dB(A) Leq

OSHA Norms in work place for 8 hr. exposure: 90 dB (A)

Note:

1. The results relate only to the items sampled and tested.
2. Test report shall not be reproduced except in full without written approval of the laboratory.

Niraj

(Dr. Niraj Kumar Singh)  
Authorized Signatory

-- End of the Report --





# ENVIROCHECK

Certified by : ISO/IEC 17025:2017 (NABL) & Recognised by JSPCB  
ISO 9001:2015 & ISO 45001 : 2018 Certified Laboratory  
Lab : MIG, R-3 Housing Colony, Dhanbad, Pin - 826001, State - Jharkhand [ 9830067044



## TEST REPORT

FORMAT NO : ENVJK/FM/37

APPLICATION NO. : 17116485 DTD. 31.08.2023

Name of the Industry	: Dhab Salonia Stone Deposit of M/s. Shree Shantinath Minerals	Type of Industry	: Stone Mines		
Address	: Dhab Salonia, P.O. - Dhab, P.S. - Chouparan, Dist. - Hazaribagh - 825401	Sampling Date	: 04.09.2023 - 05.09.2023		
		Period of Analysis	: 06.09.2023 - 06.09.2023		
		Date of Issue	: 07.09.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample Condition	: Sealed	Sample ID No.	: ENVJK/71/Sep./A/I	Report No.	: ENVJK/71/Sep./TR(A)/I/23-24

### A] GENERAL INFORMATION

1. Location of Sampling : Near Main Gate
2. Duration of Sampling : 24 hrs. (09:00 a.m. - 09:00 a.m.)

### B] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM <sub>2.5</sub>	µg/m <sup>3</sup>	USEPA 1997a,40 CFR Part 50, Appendix L: 2006	54.62	60.0
2.	Concentration of PM <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 (Part 23): 2006	91.47	100.0
3.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2): 2001	7.77	80.0
4.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6): 2006	28.43	80.0

Remarks : Result shows that all parameters are within limit as per JSPCB.  
: Result relates only to the sample tested.

Reviewed By :

(Saswata Burman Roy, Dy. Quality Manager)

Authorised Signatory :

(Dr. Ajoy Paul, Quality Manager)

Kolkata Office : 63/B, Rastraguru Avenue, Kolkata - 700028 [ 033-25792891/25497490  
Email : envirocheck50@gmail.com  
Website : www.envirocheck.in





# ENVIROCHECK

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ISO 9001:2015 & ISO 45001 : 2018 Certified Laboratory  
Lab : MIG, R-3 Housing Colony, Dhanbad, Pin - 826001, State - Jharkhand ☎ 9830067044



## TEST REPORT

FORMAT NO : ENVJK/FM/37

APPLICATION NO. : 17116485 DTD. 31.08.2023

Name of the Industry	: Dhab Salonia Stone Deposit of M/s. Shree Shantinath Minerals	Type of Industry	: Stone Mines		
Address	: Dhab Salonia, P.O. - Dhab, P.S. - Chouparan, Dist. - Hazaribagh - 825401	Sampling Date	: 04.09.2023 - 05.09.2023		
		Period of Analysis	: 06.09.2023 - 06.09.2023		
		Date of Issue	: 07.09.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample Condition	: Sealed	Sample ID No.	: ENVJK/71/Sep./A/II	Report No.	: ENVJK/71/Sep./TR(A)/II/23-24

### A] GENERAL INFORMATION

1. Location of Sampling : South - East Corner
2. Duration of Sampling : 24 hrs. (09:30 a.m. - 09:30 a.m.)

### B] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM <sub>2.5</sub>	µg/m <sup>3</sup>	USEPA 1997a,40 CFR Part 50, Appendix L: 2006	51.75	60.0
2.	Concentration of PM <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 (Part 23): 2006	84.12	100.0
3.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2): 2001	6.30	80.0
4.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6): 2006	25.0	80.0

Remarks : Result shows that all parameters are within limit as per JSPCB.  
: Result relates only to the sample tested.

Reviewed By :

(Saswata Burman Roy, Dy. Quality Manager)

Authorised Signatory :

(Dr. Ajoy Paul, Quality Manager)

Kolkata Office : 63/B, Rastraguru Avenue, Kolkata - 700028 ☎ 033-25792891/25497490  
Email : envirocheck50@gmail.com  
Website : www.envirocheck.in





# ENVIROCHECK

Certified by : ISO/IEC 17025:2017 (NABL) & Recognised by JSPCB  
ISO 9001:2015 & ISO 45001 : 2018 Certified Laboratory  
Lab : MIG, R-3 Housing Colony, Dhanbad, Pin - 826001, State - Jharkhand ☎ 9830067044



## TEST REPORT

FORMAT NO : ENVJK/FM/37

APPLICATION NO. : 17116485 DTD. 31.08.2023

Name of the Industry	: Dhab Salonia Stone Deposit of M/s. Shree Shantinath Minerals	Type of Industry	: Stone Mines		
Address	: Dhab Salonia, P.O. - Dhab, P.S. - Chouparan, Dist. - Hazaribagh - 825401	Sampling Date	: 04.09.2023 - 05.09.2023		
		Period of Analysis	: 06.09.2023 - 06.09.2023		
		Date of Issue	: 07.09.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample Condition	: Sealed	Sample ID No.	: ENVJK/71/Sep./A/III	Report No.	: ENVJK/71/Sep./TR(A)/III/23-24

### A] GENERAL INFORMATION

1. Location of Sampling : South - West Corner
2. Duration of Sampling : 24 hrs. (10:00 a.m. - 10:00 a.m.)

### B] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM <sub>2.5</sub>	µg/m <sup>3</sup>	USEPA 1997a,40 CFR Part 50, Appendix L: 2006	47.20	60.0
2.	Concentration of PM <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 (Part 23): 2006	81.18	100.0
3.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2): 2001	5.04	80.0
4.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6): 2006	23.54	80.0

Remarks : Result shows that all parameters are within limit as per JSPCB.  
: Result relates only to the sample tested.

Reviewed By :

(Saswata Burman Roy, Dy. Quality Manager)

Authorised Signatory :

(Dr. Ajoy Paul, Quality Manager)

Kolkata Office : 63/B, Rastraguru Avenue, Kolkata - 700028 ☎ 033-25792891/25497490  
Email : envirocheck50@gmail.com  
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# ENVIROCHECK

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ISO 9001:2015 & ISO 45001 : 2018 Certified Laboratory  
Lab : MIG, R-3 Housing Colony, Dhanbad, Pin - 826001, State - Jharkhand [ 9830067044



FORMAT NO. : ENVJK/FM/56

## TEST REPORT

APPLICATION NO. : 17116485 DTD. 31.08.2023

1.	Name of the Industry	:	Dhab Salonia Stone Deposit of M/s. Shree Shantinath Minerals
2.	Address	:	Dhab Salonia, P.O. - Dhab, P.S. - Chouparan, Dist. - Hazaribagh - 825401
3.	Type of Industry	:	Stone Minis
4.	Sampling Plan & Procedure	:	ENV/SOP/01
5.	Deviation from the Sampling Method & Plan	:	No
6.	Type of Sample	:	Noise
7.	Sample ID	:	ENVJK/71/Sep./N
8.	Report ID	:	ENVJK/71/Sep./TR(N)/23-24
9.	Date of Study	:	04.09.2023
10.	Reporting Date	:	07.09.2023
11.	Method No.	:	IS: 9989 - 1981
12.	Time of Duration of Noise	:	20 Minutes
13.	Height from Ground Level	:	4 feet

### RESULT OF NOISE LEVEL STUDY

1. Location of Study		: Near Main Gate		
Time (A.M.)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	
10:30 - 10:50	63.40	70.30	67.37	
2. Location of Study		: South East Corner		
Time (A.M.)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	
11:00 - 11:20	61.20	69.60	66.66	
3. Location of Study		: South - West Corner		
Time (A.M.)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	
11:30 - 11:50	60.40	67.70	64.28	

\*\* Mean of  $L_{eq}$  - Equivalent to Sound Energy  
Limit in  $L_{eq}$  dB(A)

Category Area	Day Time dB(A)	Night Time dB(A)
A. Industrial Area	75	70
B. Commercial Area	65	55
C. Residential Area	55	45
D. Silence Zone	50	40

\*\*Day Time is reckoned in between  
6:00 A.M & 10:00 P.M

\*\*Night Time is reckoned in between  
10:00 P.M & 6:00 A.M

(Central Pollution Control Board, Ministry of Environment & Forests Government of India) &  
(Department of Environment, Government of West Bengal)

Kolkata Office : 63/B, Rastraguru Avenue, Kolkata - 700028 [ 033-25792891/25497490  
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*Handwritten signature*



# ENVIROCHECK

Certified by : ISO/IEC 17025:2017 (NABL) & Recognised by JSPCB  
ISO 9001:2015 & ISO 45001 : 2018 Certified Laboratory  
Lab : MIG, R-3 Housing Colony, Dhanbad, Pin - 826001, State - Jharkhand ☎ 9830067044



PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS	
Hours	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
1/4	105
1/8	108
1/16	111
1/32	114
(2 minutes or less)	-

\*\* The Noise Pollution (Regulation and Control Rules, 2000  
\*\* S.O. 123 (E) Dated : 14<sup>th</sup> February, 2000

Reviewed By :

(Saswata Burman Roy, Dy. Quality Manager)

Authorised Signatory :

(Dr. Ajoy Paul, Quality Manager)

<End of Report>



Kolkata Office : 63/B, Rastraguru Avenue, Kolkata - 700028 ☎ 033-25792891/25497490  
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Website : [www.envirocheck.in](http://www.envirocheck.in)



# ENVIRONMENTAL LABORATORIES &

PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA  
HATIA, RANCHI-834003 (JHARKHAND)  
GST NO:- 20AAECE9713D214

ENGINEERING SERVICES PVT. LTD.

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Phone no.: 0651-2290103  
Website : [www.elespl.co.in](http://www.elespl.co.in)



CIN: U74999JH2018PTC011125

TC-13587

## TEST REPORT

Test Report No. : ELES/RNC/2024/4545	Report Release Date : 15.01.2024
Application No. : 18157762	Application Date : 29.12.2023
ULR No. : TC135872400002470F	

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Jai Shree Ram Stone Mines	Sampling Date	: 11.01.2024 to 12.01.2024
Address	: Dhabsalonia, Chouparan Hazaribagh.	Sample Received Date	: 12.01.2024
		Type of Sample	: Ambient Air
		Sampling Procedure	: ELES/DOC/SMPL/02
		Sampling Done By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved
Plant Status	: Operational	Period of Analysis	: 13.01.2024 to 14.01.2024

### METEOROLOGICAL INFORMATION

1	Average Temperature (°C) : 30	2	Barometric Pressure (mmHg) : 745
3	Relative Humidity (%) : 65	4	Weather Condition : Partly Cloudy

Discipline : Chemical

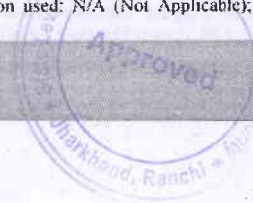
Group : Atmospheric Pollution

Parameters	Particulate Matter (PM10)		Fine Particulate Matter (PM2.5)		Sulphur Di-Oxide (SO <sub>2</sub> )		Nitrogen Di-Oxide (NO <sub>2</sub> )			
	Test Protocol	IS 5182 (P-23)	IS 5182 (P-24)	IS 5182 (P-2)	IS 5182 (P-6)					
Locations	Limit	Unit	100	µg/m <sup>3</sup>	60	µg/m <sup>3</sup>	80	µg/m <sup>3</sup>	80	µg/m <sup>3</sup>
Near Main Gate	10:49 – 14:58	71	33	33	10.4	22.3	12.5	27.4		
	14:58 – 18:41						9.1	29.1		
	18:47 – 22:51	52					13.2	20.8		
	22:51 – 02:40	9.7					18.2			
	02:47 – 06:51	63					7.3	15.4		
	06:51 – 10:40	63					10.5	22.7		
Sample ID ELES/RNC/2024/AA/5415	Average	62	33	10.4	22.3					
Near Crusher	11:31 – 15:38	78	37	37	11.1	21.5	13.9	26.3		
	15:38 – 19:26						10.5	30.4		
	19:33 – 23:43	62					11.2	19.2		
	23:43 – 03:30	62					7.8	15.8		
	03:38 – 07:44	65					6.5	17.2		
	07:44 – 11:25	65					16.7	20.3		
Sample ID ELES/RNC/2024/AA/5416	Average	68	37	11.1	21.5					

Page 1 of 2

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"Save Environment, Save Future"





# ENVIRONMENTAL LABORATORIES &

PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA  
HATIA, RANCHI-834003 (JHARKHAND)  
GST NO.: 20AAECE9713D124

ENGINEERING SERVICES PVT. LTD.

Email: [info@elespl.co.in](mailto:info@elespl.co.in), [eles.ranchi@gmail.com](mailto:eles.ranchi@gmail.com)  
Phone no.: 0651-2290103  
Website : [www.elespl.co.in](http://www.elespl.co.in)




CIN: U74999/JH2018PTC011125


## TEST REPORT

Test Report No. : ELES/RNC/2024/4545	Report Release Date : 15.01.2024
Application No. : 18157762	Application Date : 29.12.2023
ULR No. : TC135872400002470F	

Discipline : Chemical			Group : Atmospheric Pollution								
Parameters			Particulate Matter (PM10)		Fine Particulate Matter (PM2.5)		Sulphur Di-Oxide (SO <sub>2</sub> )	Nitrogen Di-Oxide (NO <sub>2</sub> )			
Test Protocol			IS 5182 (P-23)		IS 5182 (P-24)		IS 5182 (P-2)	IS 5182 (P-6)			
Locations		Limit	Unit	100	µg/m <sup>3</sup>	60	µg/m <sup>3</sup>	80	µg/m <sup>3</sup>	80	µg/m <sup>3</sup>
Near Stock Yard	11:42 – 15:53	70			30			10.5	18.2		
	15:53 – 19:38							9.8	24.1		
	19:46 – 23:53	51						12.2	18.7		
	23:53 – 03:40							8.5	16.3		
	03:47 – 07:52	58							9.1	19.1	
	07:52 – 11:38								11.2	22.4	
Sample ID ELES/RNC/2024/AA/5417	Average	60			30			10.2	19.8		

  
Reviewed by  
**AKASH KUMAR**  
Quality Manager  
ELES PVT. LTD.

\*\*\*\*End of Report\*\*\*\*

  
Authorized Signatory  
**Dr. Deependra Kumar Sinha**  
Ph. D Environmental Engg.  
ELES Pvt. Ltd. Technical Manager



Page 2 of 2

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"Save Environment, Save Future"



# ENVIRONMENTAL LABORATORIES &

PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA  
HATIA, RANCHI-834003 (JHARKHAND)  
GST NO:- 20AAECE9713D124

ENGINEERING SERVICES PVT. LTD.

Email: info@elespl.co.in, eles.ranchi@gmail.com

Phone no.: 0651-2290103

Website : www.elespl.co.in



TC-12587

CIN: U74999JH2018PTC011125

## TEST REPORT

Test Report No. : ELES/RNC/2024/4546	Report Release Date : 15.01.2024
Application No. : 18157762	Application Date : 29.12.2023
ULR No. : TC135872400002471F	

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Jai Shree Ram Stone Mines	Sampling Date	: 11.01.2024 to 12.01.2024
Address	: Dhabsalonia, Chouparan Hazaribagh	Sample Received Date	: 12.01.2024
		Type of Sample	: Ambient Noise
Plant Status	: Operational	Sampling Procedure	: ELES/DOC/SMPL/03
		Sampling Done By	: ELES Pvt. Ltd.
		Period of Analysis	: 13.01.2024 to 14.01.2024

### METEOROLOGICAL INFORMATION

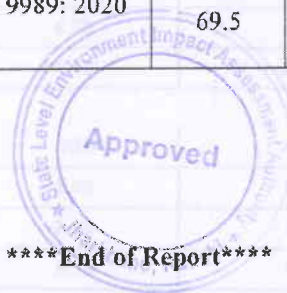
1	Average Temperature (°C) : 30	2	Barometric Pressure (mmHg) : 745
3	Relative Humidity (%) : 65	4	Weather Condition : Partly Cloudy

Discipline : Chemical


Group : Atmospheric Pollution

Location	Unit	Test Protocol	Result			Regulatory Limit
			L <sub>Max</sub>	L <sub>Min</sub>	L <sub>Eq</sub>	
Near Main Gate	dB(A)	IS 9989: 2020	L <sub>Max</sub>	L <sub>Min</sub>	L <sub>Eq</sub>	75 dB(A) Day Time & 70 dB(A) Night Time
Sample ID: ELES/RNC/2024/AN/5418			68.2	40.5	63	
Near Crusher	dB(A)	IS 9989: 2020	L <sub>Max</sub>	L <sub>Min</sub>	L <sub>Eq</sub>	
Sample ID: ELES/RNC/2024/AN/5419			72.8	43.5	69	
Near Stock Yard	dB(A)	IS 9989: 2020	L <sub>Max</sub>	L <sub>Min</sub>	L <sub>Eq</sub>	
Sample ID: ELES/RNC/2024/AN/5420			69.5	41.2	65	

  
Reviewed by  
**AKASH KUMAR**  
Quality Manager  
ELES PVT. LTD.



\*\*\*\*End of Report\*\*\*\*

  
Authorized Signatory  
**Dr. Deependra Kumar Sinha**  
Ph. D Environmental Engg.  
ELES Pvt. Ltd. Technical Manager

Page 1 of 1

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"Save Environment, Save Future"

# SRI SAI ENVIRO ANALYTICAL LABORATORIES

TESTING OF SOIL, WATER, AIR, COAL & BUILDING MATERIAL

Kisan Bhawan, Krishi Bazar, Barwadda, Dhanbad - 826004 (Jharkhand)

Mobile : 7001451670, 9431120331, E-mail : srisaienvirolabs@gmail.com

## AMBIENT AIR QUALITY MONITORING REPORT

Test Report No.	sai/PCB/2022/AA- 62 , Dt. 26 .09.2022
Application No.	14349182 Dt.22.09.2022

CUSTOMER DETAILS	SAMPLE DETAILS
Name of Unit : Karma Stone Mines	Sample Ref. no : sai/2022/sample- 63
Plant Status : Stone Mining quarry	Location : Multiple
Address : At- Karma, P.O.- Rampur, P.S.- Chauparan District- Hazaribagh.	Date of Sampling : 23.09.2022-24.09.2022
	Date of receiving sample in lab : 25.09.2022

Permissible	Limits(24 hrs.)	80	80	100	60
Location	Time	SO2 mg/cu.mtr	NO X mg/cu.mtr	PM10 mg/cu.mtr.	PM2.5 mg/cu.mtr
Entry Point	09.40am-01.40pm	10.2	08.5	12	07
Latitude	01.50pm-05.50pm	10.4	08.5	12	07
24.41322333	06.00pm-10.00pm	08.9	07.6	12	07
Longitude	10.00pm-05.30am	07.8	06.9	12	07
85.41547666	05.40am-09.40am	09.5	07.3	12	07
Average	24 hrs.	9.36	07.76	12	07

Location	Time	SOX	NOX	PM10	PM2.5
Mid of Plot	09.40am-01.40pm	10.2	08.5	12	07
Latitude	01.50pm-05.50pm	10.4	08.5	12	07
24 4085762	06.00pm-10.00pm	08.9	07.6	12	07
Longitude	10.00pm-05.30am	07.8	06.9	12	07
85.4148732	05.40am-09.40am	09.5	07.3	12	07
Average	24 hrs	9.36	07.76	12	07

Location	Time	SOX	NOX	PM10	PM2.5
End point	09.40am-01.40pm	10.2	08.5	12	07
Latitude	01.50pm-05.50pm	10.4	08.5	12	07
24.4241869	06.00pm-10.00pm	08.9	07.6	12	07
Longitude	10.00pm-05.30am	07.8	06.9	12	07
85.42338566	05.40am-09.40am	09.5	07.3	12	07
Average	24 hrs	9.36	07.76	12	07

\*\*\*\*\*END OF REPORT\*\*\*\*\*

*Authorised signatory*  
Dr. Nilesh Halder



*[Signature]*

# SRI SAI ENVIRO ANALYTICAL LABORATORIES

TESTING OF SOIL, WATER, AIR, COAL & BUILDING MATERIAL

Kisan Bhawan, Krishi Bazar, Barwadda, Dhanbad - 826004 (Jharkhand)

Mobile : 7001451670, 9431120331, E-mail : srisaienvirolabs@gmail.com

## NOISE LEVEL MONITORING REPORT

Test Report No.	sai/PCB/2022 /NL- 35 Dt. 26.09.2022
Application No.	14348182 Dt.22.09.2022

CUSTOMER DETAILS	SAMPLE DETAILS
Name of Unit: Karma Stone Mines	Sai/2022 /Sample-NL- 35
Plant Status: Operational	Location: Multiple
Address: At- Karma, Rampur, Chauparan District: Hazaribagh.	Date of Sampling- 23.09.2022-24.09.2022

## OBSERVATIONS

S.No	Place of Monitoring	Day Time	Night time
1.	Entry point	37 dB	40 dB
2.	Mid point	37 dB	40 dB
3.	End point	36 dB	40 dB
	Average	36.66 dB	40 dB

\*\*\*\*\*END OF REPORT\*\*\*\*\*

*Aaldar*  
**Authorised signatory**  
Dr. Nilesh Halder





# EPIC LabTech Private Limited

Laboratory Services Division

CIN-U74999JH2022PTC019685

Certified by :- ISO 9001:2015 (Quality Management System).  
ISO 45001:2018 (Occupational Health & Safety Management System)  
Accredited by :- Jharkhand State Pollution Control Board

## Analytical Test Report

Test Report (QMS – 9001:2015)	Test Report No.	RP011423300101	Issue date	31.07.2023/12:10	
Discipline	Chemical	Group	Atmospheric Pollution	Sub Group	Ambient Air
Issue to	M/s – KUNHARA KALAN STONE DEPOSIT OF M/S J.C. STONE WORKS, VILLAGE - KUNHARA KALAN, Dist.-HAZARIBAGH, Jharkhand		Unique Lab Report	N/A	
			Contact Person	Mr. AJIT KUMAR	
			Contact Number	7979889561	
			Email Id	ramawataryadav969@gmail.com	
Application No.	16680957	Order Date	01/07/2023		

### QMS References (Steps of Traceability Chain)

Customer Registration No.	EPIC/PCB/0114	Sampling Vaucher Number	EPIC/PCB/0114/01
Sample Booking Number	EPIC-C-AP-AAQ-30/01	Sample's Code	AAQ-30/01

Sampling Reference	Industry Type	Stone Mines		
Sampling Start (D/T)	22.07.2023 / 11:00	Sampling End (D/T)	23.07.2023 / 08:40	
Sampling Status	Conducted ✓	Received ✗	Sample collected by	Lab's representative

Sampling method used IS 5182 and CPCB Air Manual Volume – 1 (NAAQM/36/2012-13)

Weather condition	Cloudy	Temperature (°C)	32	Humidity %	67	Wind direction	260° - 80°
S. Location A	East corner of unit	GPS coordinate	24°10' 08.09" / 83°35' 17.10"				
S. Location B	South corner of unit	GPS coordinate	24°10' 07.94" / 83°35' 17.26"				
S. Location C	West corner of unit	GPS coordinate	24°10' 07.96" / 83°35' 17.60"				

Test performed at laboratory's permanent facility and results relate only to the sample tested in prescribed Date & time  
Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5 % in all testing area as per IS 196:1966

Test start date	24.07.2023/ 16:55	Test completion date	29.07.2023/17:50
-----------------	-------------------	----------------------	------------------

Sl	Test Parameters	Method used	Unit	Results			Limits	MU%	DR
				A	B	C			
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 (P-23) 2006	µg/m <sup>3</sup>	69.5	66.3	72.9	100	± 3.2	✓
2.	Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (P-24) 2019	µg/m <sup>3</sup>	32.2	29.2	34.4	60	± 6.7	✓
3.	Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (P-2) 2001 RA 2012	µg/m <sup>3</sup>	09.2	11.0	08.2	80	± 7.5	✓
4.	Nitrogen Dioxide (NO <sub>2</sub> )	IS:5182 (P-6) 2006 RA 2012	µg/m <sup>3</sup>	23.4	25.9	20.7	80	± 4.5	✓
				AQI	●	●	●	Satisfactory	

--Test result End --

**Health Consequence** Minor breathing discomfort to sensitive people  
**Statement of conformity** Results comply with prescribed limit of Environmental (Protection) Rules, 1986  
**Opinions and interpretations** Unit was operational during sampling,

### Contractual Notes

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- All disputes are subjected to Ranchi Jurisdiction and maximum liability of the Laboratory does not exceed the testing and sampling charges
- Decision rule employed, taking into account the level of risk as per statistical assumptions.
- Opinions does not imply endorsement of the tested product by laboratory. Under no circumstances, laboratory accepts any caused by use or misuse of this report.

QC checks Calibration of Equipment checked ✓ Reference Material checked ✓ Laboratory Technical record checked ✓

**Only Concerned for**  
 Jharkhand State Pollution Control Board  
 Application No. 16680957



*[Signature]*  
 Tested by  
 Section Head

*[Signature]*  
 Verified by  
 Technical Head

*[Signature]*  
 Issue by  
 Laboratory Head

Indrapuri, Road No. - 5, Ranchi, Jharkhand - 834005, India

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**EPIC**  
LabTech Pvt. Ltd.

# EPIC LabTech Private Limited

Laboratory Services Division

CIN: U74999JH2022PTC019685

Certified by :- ISO 9001:2015 (Quality Management System),  
ISO 45001:2018 (Occupational Health & Safety Management System)  
Accredited by :- Jharkhand State Pollution Control Board

## Analytical Test Report

Test Report (QMS – 9001:2015)	Test Report No.	RP011423300102	Issue date	31.07.2023/12:10
Discipline	Chemical Group	Atmospheric Pollution	Sub Group	Ambient Noise
Issue to	M/s – KUNHARA KALAN STONE DEPOSIT OF M/S J.C. STONE WORKS, VILLAGE - KUNHARA KALAN, Dist.-HAZARIBAGH, Jharkhand	Unique Lab Report	Contact Person	N/A Mr. AJIT KUMAR
		Contact Number	7979889561	
		Email Id	ramawataryadav969@gmail.com	
Application No.	16680957	Order Date	01/07/2023	

### QMS References (Steps of Traceability Chain)

Customer Registration No.	EPIC/PCB/0114	Sampling Vaucher Number	EPIC/PCB/0114/01
Lab Assignment Number	EPIC-C-AP-AN-30/01	Sample's Code	AN-30/01

Sampling Reference	Industry Type	Stone Mines		
Sampling Start (D/T)	22.07.2023 / 11:00	Sampling End (D/T)	23.07.2023 / 08:40	
Sampling Status	Conducted ✓	Received ✗	Sample collected by	Lab's representative

Sampling method used	IS 9876:1981 (RA 2007) & CPCB Methods.O.50 (E) dated 11/01/2010					
Weather condition	Temperature (°C)	32	Humidity %	67	Wind direction	260° - 80°
S. Location A	East corner of unit	GPS coordinate	24°10' 08.09" / 83°35' 17.10"			
S. Location B	South corner of unit	GPS coordinate	24°10' 07.94" / 83°35' 17.26"			
S. Location C	West corner of unit	GPS coordinate	24°10' 07.96" / 83°35' 17.60"			

Test performed at laboratory's permanent facility and results relate only to the sample tested in prescribed Date & time  
Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5 % in all testing area as per IS 196:1966

Test start date	24.07.2023/ 16:55	Test completion date	29.07.2023/17:50
-----------------	-------------------	----------------------	------------------

Sl	Test Parameters	Method used	Unit	Results			Limits	MU%	DR
				A	B	C			
1.	Leq (Day time)	IS: 9989:1981	dB (A)	60.4	61.2	62.1	75	± 2.4	✓
2.	Leq (Night time)	IS: 9989:1981	dB (A)	47.1	43.6	45.7	70	± 2.4	✓
3.	Level Max (L max)	IS: 9989:1981	dB (A)	68.9	71.7	70.8	-	-	
4.	Level Min (L min)	IS: 9989:1981	dB (A)	42.4	40.2	38.6	-	-	

- Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority.
- Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.
- dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale(A) which is relatable to human hearing.

Area	Day Time		Night time	
	A	B	C	D
Industrial Area	75.0	70.0		
Commercial Area	65.0	55.0		
Residential Area	55.0	45.0		
Silence Zone	50.0	40.0		

**Health Consequence** Difficulty in hearing conversation  
**Statement of conformity** Results comply with Noise Pollution (Regulation and Control) Rules, 2000.  
**Opinions and interpretations** Unit was operational during sampling.

### Contractual Notes

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- This report shall not be reproduced except in full or part as advertisement or evidence in court of law, without written approval of the CEO.
- Any complaint about this report should be communicated in writing within 7 days of its issue. For Complaint log kindly contact (0651-4666392).
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- In case of feedback/ complaints, please send an email at [epiclabtech@gmail.com](mailto:epiclabtech@gmail.com)
- All disputes are subjected to Ranchi Jurisdiction and maximum liability of the laboratory does not exceed the testing and sampling charges
- Decision rule employed, taking into account the level of risk as per statistical assumptions.
- Opinions does not imply endorsement of the tested product by laboratory. Under no circumstances, laboratory accepts any caused by use or misuse of this report.

QC checks Calibration of Equipment checked ✓ Reference Material checked ✓ Laboratory Technical record checked ✓

Only Concerned for  
Jharkhand State Pollution Control Board  
Application No. 16680957



*Amit*  
Tested by  
Section Head

*Kumar*  
Verified by  
Technical Head

*J. M. S.*  
Issue by  
Laboratory Head



Indrapuri, Road No. - 5, Ranchi, Jharkhand - 834005, India

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# Institute for Environmental Management



Accredited by Jharkhand State Pollution Control Board, JSPCB  
 Certified by ISO 9001:2015 (Quality Management System)  
 ISO 45001:2018 (Occupational Health & Safety Management System)

## Test Report

Discipline: Chemical		Group: Atmospheric Pollution	Sub-Group: Ambient Air
Report Issue Date: 13-07-2023		Test Report No.: RN-230701001A	
Sample ID: 230708AP01001-002-003		Sample Description: Ambient Air	
Challan No./P.O. No.: 16680644		Challan No./ P.No. Date: 01-07-2023	
Issued to: M/s Ramcon Infrastructure Pvt. Ltd. Kunharakalan, Barkatha, District - Hazaribagh			
Type of Industry: Stone Mines		Customer Representative: Ranjeet Kumar and Nilesh Ranjan	
Sample Drawn by: IEM Team		Sampling Date: 07-07-2023 to 08-07-2023	
Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series			
Sampling Location	A	NEAR EAST CORNER	Co-ordinates: 24°10'10.80"N to 85°35'18.77"E
	B	NEAR NORTH WEST CORNER	Co-ordinates: 24°10'12.79"N to 85°35'08.71"E
	C	NEAR SOUTH CORNER	Co-ordinates: 24°10'06.14"N to 85°35'13.51"E
Field Meteorological Information		A. Temp. (°C): 30	R.H. (%): 55
		W.C.: Semi Cloudy	W.D.: East - West
Sample Receiving Date: 08-07-2023		Testing Started: 08-07-2023	Testing Ended: 12-07-2023

### ----Test Results----

Sl.No.	Parameters	Test Method No.	Unit	Standard Norms**	Results		
					A	B	C
1.	Particulate Matter (PM <sub>10</sub> )	IS 5182 Part 23	µg/m <sup>3</sup>	100	73.68	69.42	66.98
2.	Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 Part-02	µg/m <sup>3</sup>	80	17.76	15.60	12.37
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 Part-06	µg/m <sup>3</sup>	80	35.93	31.22	27.93

### ----End of Report----

Env. Condition of Lab.	Laboratory is maintaining Temperature 27 ± 2°C and Relative Humidity 65 ± 5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	National Ambient Air Quality Standards (NAAQS), 2009.
Remark	Sample Comply with prescribed specification.

Tested By: Neema Kumari

Sample Drawn By: Rajiv Kr. Singh & Team



#### Specific Contractual Notes:-

- The laboratory accepts responsibility for content of this report.
- This report shall not be reproduced except in full, without written approval of the MD.
- This report is intended for only guidance and not for legal purpose or for advertisement.
- Any complaint about this report should be communicated in writing within 7 days of its issue.
- Total liability of Institute for Environmental Management will be limited to invoiced amount only.
- In case of feedback/ complaints, please send an email at [gm.iemeco@gmail.com](mailto:gm.iemeco@gmail.com)

On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.

Quality Checked by \_\_\_\_\_ Authorized Signatory \_\_\_\_\_

*Shreya Sonal*  
 (Shreya Sonal)  
 Dy. Quality Mahadev

*S. C. Jain*  
 (S. C. Jain)  
 Director



Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001

Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony, Ranchi-834002, Jharkhand, India

Ph - 8407804254, 8407804251, Email - [iem2012@rediffmail.com](mailto:iem2012@rediffmail.com)



ISO 45001:2018



# Institute for Environmental Management



Accredited by Jharkhand State Pollution Control Board, JSPCB  
 Certified by ISO 9001:2015 (Quality Management System)  
 ISO 45001:2018 (Occupational Health & Safety Management System)

## Test Report

<b>Discipline:</b> Chemical	<b>Group:</b> Atmospheric Pollution	<b>Sub-Group:</b> Ambient Noise Levels (Excluding Vibration)			
<b>Report Issue Date:</b> 13-07-2023		<b>Test Report No.:</b> RN-230701001N			
<b>Sample ID:</b> 230708AP02001-002-003		<b>Sample Description:</b> Ambient Noise			
<b>Challan No./P.O. No.:</b> 16680644		<b>Challan No./ P.No. Date:</b> 01-07-2023			
<b>Issued to:</b> M/s Ramcon Infrastructure Pvt. Ltd. Kunharakalan, Barkatha, District - Hazaribagh					
<b>Type of Industry:</b> Stone Mines			<b>Customer Representative:</b> Ranjeet Kumar and Nilesh Ranjan		
<b>Sample Drawn by:</b> IEM Team			<b>Sampling Date:</b> 07-07-2023 to 08-07-2023		
<b>Protocol:</b> CPCB Guideline & IS Method 9989:1981			<b>Category of Area/Zone:</b> Industrial Area		
<b>Sampling Location</b>	<b>A</b>	NEAR EAST CORNER	<b>Co-ordinates:</b> 24°10'10.40"N to 85°35'18.92"E		
	<b>B</b>	NEAR NORTH WEST CORNER	<b>Co-ordinates:</b> 24°10'12.80"N to 85°35'09.81"E		
	<b>C</b>	NEAR SOUTH CORNER	<b>Co-ordinates:</b> 24°10'05.97"N to 85°35'12.44"E		
<b>Field Meteorological Information</b>		<b>A. Temp. (°C):</b> 30	<b>R.H. (%):</b> 55	<b>W.C.:</b> Semi Cloudy	<b>W.D.:</b> East - West
<b>Sample Receiving Date:</b> 08-07-2023		<b>Testing Started:</b> 08-07-2023		<b>Testing Ended:</b> 12-07-2023	

### ---Test Results---

Sl. No	Parameter	Method	Unit	Day Time			Night Time			Norms**
				A	B	C	A	B	C	
1.	Equivalent Sound Level (Leq)	IS 9989:1981	dB(A)	68.9	59.3	63.7	57.3	47.8	52.4	Day - 75 Night - 70

### ---End of Reports---

#### Note: -

- Day time shall mean from 6.00 a.m. to 10.00 p.m.
- Night time shall mean from 10.00 p.m. to 6.00 a.m.
- Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.
- dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
- A "decibel" is a unit in which noise is measured. "A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.
- Leq: It is an energy mean of the noise level, over a specified period.

<b>Env. Condition of Lab.</b>	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
<b>Abbreviation</b>	MDL: Minimum Detection Limit, BDL: Below Detection Limit
<b>Norms** is Specified</b>	As per Noise Pollution (Regulation and Control) Rules - 2000
<b>Remark</b>	Sample Comply with Prescribed Specification.

Tested By: Neema Kumari

Sample Drawn By: Rajiv Kr. Singh & Team



#### Specific Contractual Notes: -

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On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.

Quality Checked by Environmental Authorized Signatory

*Shreya Sonal*  
 (Shreya Sonal)  
 Dy. Quality Manager\* Ranchi

*Dr. S. C. Jain*  
 Director



Corporate office - A-8, Modi Heights, Opp. All India Radio Station, Katu Road, Ranchi, Jharkhand - 834001

Laboratory Site - II.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony, Ranchi-834002, Jharkhand, India

Ph - 8407804254, 8407804251, Email - [iem2012@rediffmail.com](mailto:iem2012@rediffmail.com)



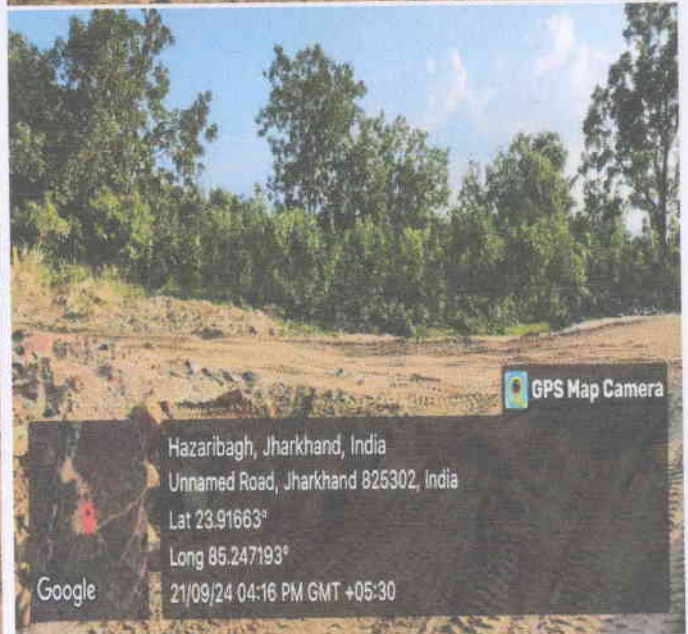
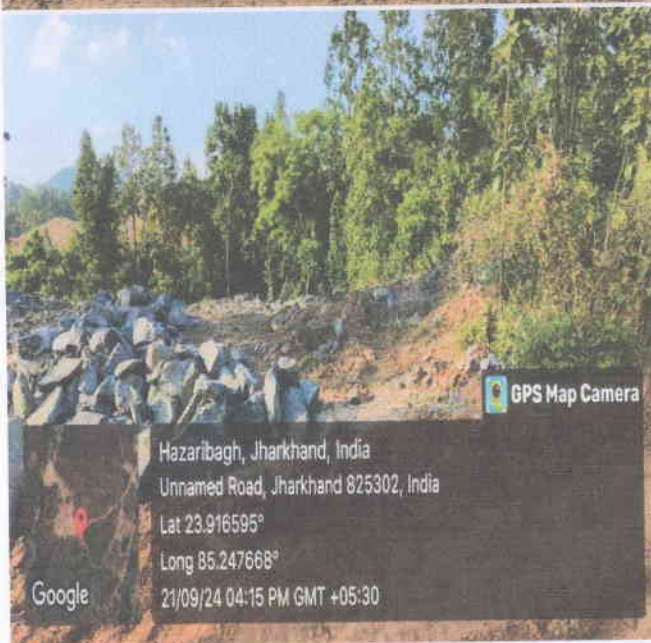
ISO 45001:2018

Annexure-VII

Photographs of plantation



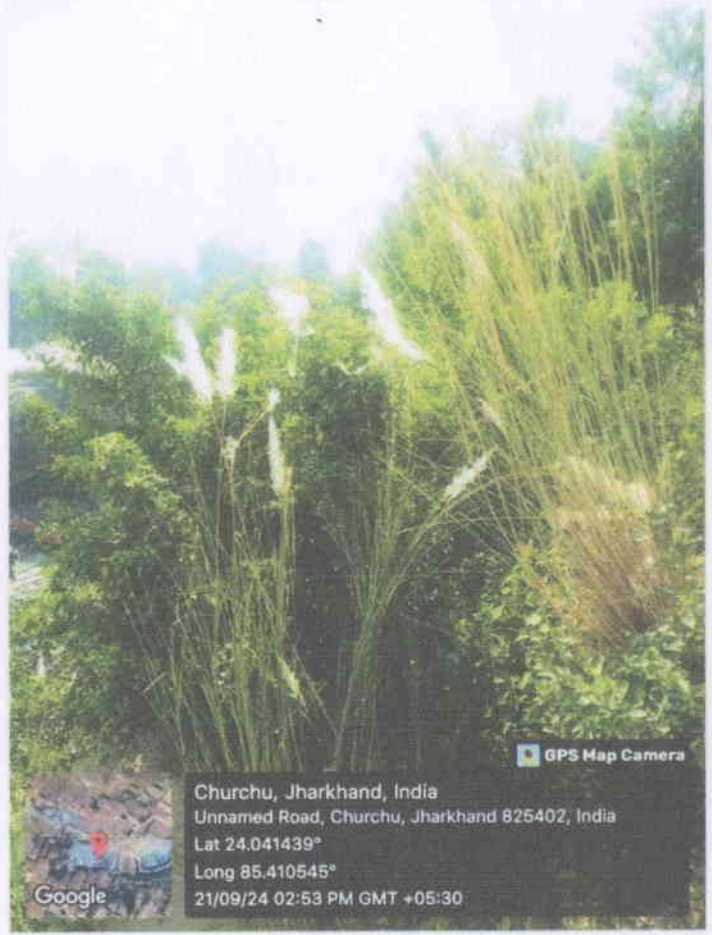
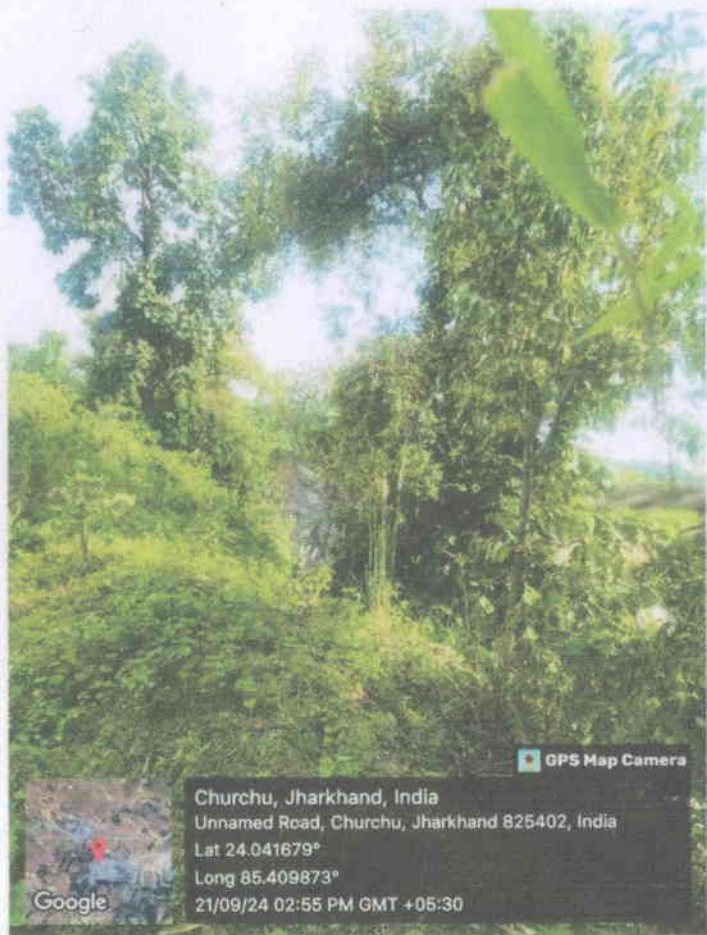
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Name of Mining Lease Holder	M/S MAA JAGDAMBA STONE WORKS
Location	Mouza – Jugra, Po- Chepakala, khata no- 97, Plot No124-134,135(p),137-140 Area – 4.26 acre, PsBarkagaon, Hazaribagh, Jharkhand-825311
Area for Plantation as per Plan	0.51 (Ha)
Number Of Tree on site	450
Number Of Tree Proposed in Mining plan	1020



*[Handwritten signature]*



Number of tree on site	30
Name of Mining Lease Holder	M/S GANESH STONE WORKS
Location	MOUZA -CHURCHU ,PLOT NO.10065 ( P) KHATA NO. 149- AREYA 1.214 HECTARES THANA SADAR, HAZARIBAGH JHARKHAND
Area for plantation as per plan	0.250 Ha
Number of tree proposed in Mining plan	150

*(Handwritten signature)*





<b>Number of tree on site</b>	<b>150</b>
<b>Name of Mining Lease Holder</b>	<b>M/S CHANDRADHARI PRASAD</b>
<b>Location</b>	<b>MOUZA -PUNDRI ,PLOT NO.05,06 &amp;13 ( P ) KHATA NO. 63- AREYA 0.972 Ha ( 2.40 Ac ) PO- ICHAK ,THANA SADAR, HAZARIBAGH JHARKHAND</b>
<b>Area for plantation as per plan</b>	<b>0.200 Ha</b>
<b>Number of tree proposed in Mining plan</b>	<b>200</b>

*(Handwritten signature)*





Number of tree on site	56
Name of Mining Lease Holder	M/s Laborious Construction Pvt.Ltd.
Location	Mouza - Murumatu, Plot no - 1212, 1216 to 1221-1235 etc. Area 4.56 Acres, P.S. - Tatijharia, Hazaribag, Jharkhand
Area for plantation as per plan	0.650 Ha.
Number of tree proposed in Mining plan	1625

9





Number of tree on site	88
Name of Mining Lease Holder	M/S Ramcom Infrastructure PVT. Ltd.
Location	Mouza- Konhara Kalan, Plot No- 837, 838,839,1000, 1001, 1002, 1003, 1004, 1005,1006, 1007 (P)1008,1009, 1010, 1011, 1012, 1013 etc. Area 4.50 Acres, P.S- Barkatha, Hazaribag, Jharkhand
Area for plantation as per plan	0.277 Ha
Number of tree proposed in Mining plan	443

## Hazaribagh District Survey Report for Stone



No. of Tree on Site	40
Name of Mining Lease Holder	M/s Saroj Stone
Location	Mouza- Konharakalan, P.S.- Barkatha, Dist- Hazaribagh
Area for plantation as per plan	0.385 Ha
Number of Trees Proposed in Mining Plan	965



*(Handwritten signature)*

## Hazaribagh District Survey Report for Stone



No. of Tree on Site	50
Name of Mining Lease Holder	M/s Jai Shree Ram Stone Mines
Location	Mouza- Dhabsalonia, P.S.- Chouparan, Dist- Hazaribagh
Area for plantation as per plan	0.320 Ha
Number of Trees Proposed in Mining Plan	800

Approved

State Level Environment Officer  
Hazaribagh, Jharkhand, Ranchi & Jh

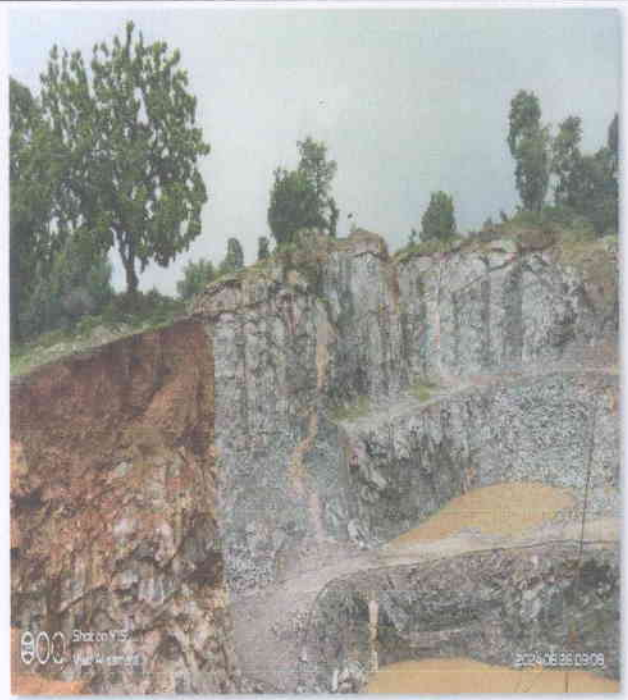
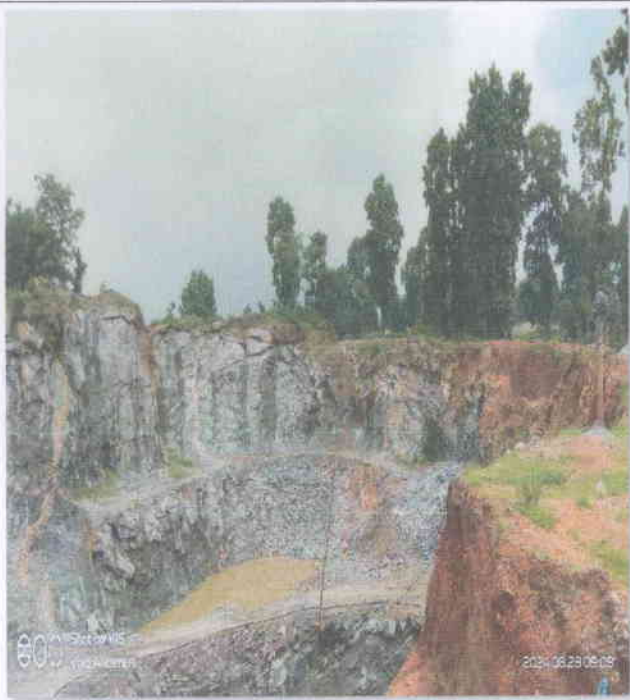
18



Number of tree on site	150
Name of Mining Lease Holder	MS SHREE SHANTINATH MINERALS
Location	Village- Dhab Salaunia, Khata No.-5, 10, 13, 29, 31 & 41, Plot No. 267, 268, 269, 352, 353(P) & 354, Area-3.17483 Acres or 1.28 ha, Thana-Chouparan, District-Hazaribagh, Jharkhand
Area for plantation as per plan	0.498 Ha
Number of tree proposed in Mining plan	1200

*[Handwritten signature]*





Number of tree on site	50
Name of Mining Lease Holder	M/S Jamnijara Stone Mines
Location	Mauza -- Jamnijara, P.S: - Vishnugarh, Circle: - Vishnugarh, Khata No.- 38, Plot No. 96/36, Area: - 6.90 acre /2.79 ha
Area for plantation as per plan	0.570
Number of tree proposed in Mining plan	1425

*[Handwritten signature]*





Number of tree on site	40
Name of Mining Lease Holder	M/S HANUMAN STONE WORKS
Location	MOUZA -CHURCHU ,PLOT NO.10065 ( P) KHATA NO. 149- AREYA 1.618 HECTARES THANA SADAR, HAZARIBAGH JHARKHAND
Area for plantation as per plan	0.350 Ha
Number of tree proposed in Mining plan	180

*[Handwritten signature]*

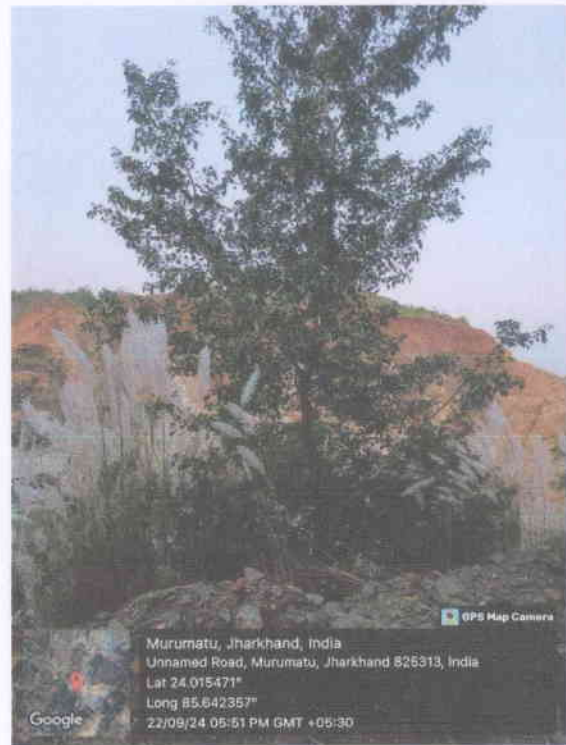
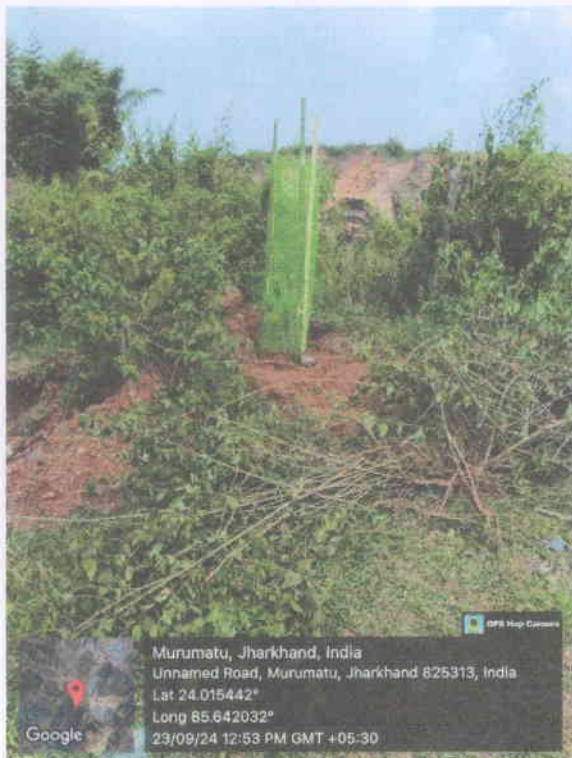




Number of tree on site	100
Name of Mining Lease Holder	Shree Nageshwar Rana and others,
Location	Mauza – Karma, P.S: - Chauparan, Circle: - Chauparan, Khata No.- 27, 28, 30 and 31 Plot No. 766,767,768 and 769, Area: - 3.10 acre /1.25 ha
Area for plantation as per plan	0.448
Number of tree proposed in Mining plan	672

*[Handwritten signature]*

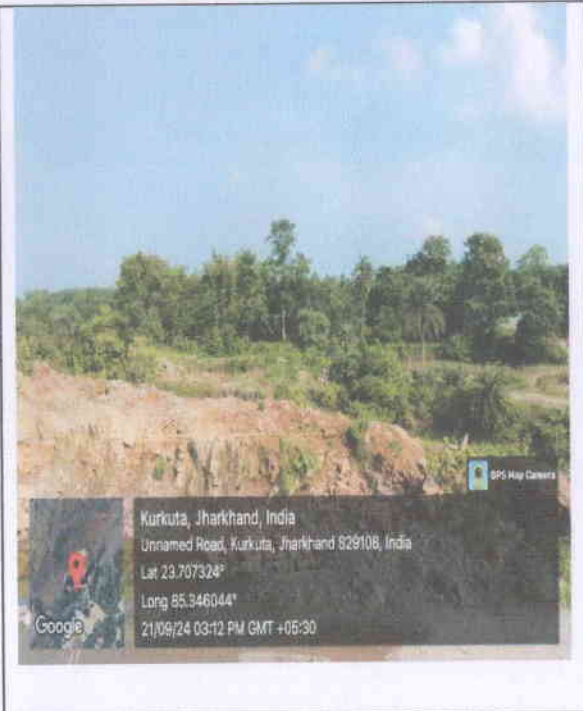
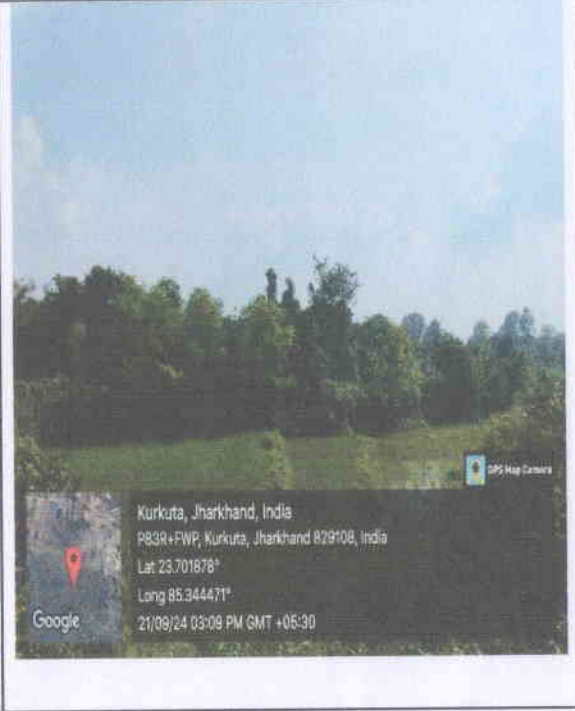




<b>Number of Tree on Side</b>	<b>250</b>
<b>Name of Mining Lease Holder</b>	<b>Ganpati Stone Enterprises</b>
<b>Location</b>	<b>Vill- Murumatu, Po- Tatijhariya, Ps- Tatijhariya, Hazaribag, Jharkhand- 825313</b>
<b>Area for Plantation as per Plan</b>	<b>0.32 Ha</b>
<b>Number of Tree Proposed in Mining Plan</b>	<b>450</b>



*Handwritten signature or initials.*

	
Number of tree on site	50
Name of Mining Lease Holder	M/S Bhole Shankar Stone Works
Location	Mauza – Kurkuttha, P.S: - Dadhi, Circle: - Dadhi, Khata No.- 35, Plot No. 198 and 199 <b>Area: - 1.21 acre /0.48 ha</b>
Area for plantation as per plan	0.203
Number of tree proposed in Mining plan	438

*(Handwritten signature)*



## **Annexure-VIII**

# **Letter from Civil Surgeon, Hazaribagh for Silicosis & Tuberculosis**

*[Handwritten mark]*





कार्यालय जिला यक्ष्मा पदाधिकारी  
जिला स्वास्थ्य समिति (यक्ष्मा), हजारीबाग



email id - dtobjhzb@mtcp.org

पत्रांक ...208...

प्रेषक,

जिला यक्ष्मा पदाधिकारी  
हजारीबाग

सेवा में,

जिला खनन पदाधिकारी  
हजारीबाग

हजारीबाग, दिनांक 13/09/20

विषय : हजारीबाग जिला में विगत पांच वर्षों में पाये गये Silicosis & Tuberculosis के मरीजों की संख्या के संबंध में।

प्रसंग : आपके पत्रांक 1110/खनन, हजारीबाग दिनांक 10.09.2024  
महाशय,

उपर्युक्त विषयक एवं प्रासंगिक पत्र के आलोक में हजारीबाग जिला में विगत पांच वर्षों में पाये गये Silicosis & Tuberculosis के मरीजों से संबंधित विहित प्रपत्र में मांगी गई वांछित सूचना निम्नवत है :-

Year	No. of patient of Silicosis	No. patient of Tuberculosis	Remark
2019	0	2406	
2020	0	1541	
2021	0	1585	
2022	0	2060	
2023	0	2175	
2024 Till Aug	0	1620	

विश्वासभाजन

13/9/24

जिला यक्ष्मा पदाधिकारी  
हजारीबाग

ज्ञापांक 208 दिनांक 13/09/2024

प्रतिलिपि : सिविल सर्जन, हजारीबाग को सूचनार्थ प्रेषित।

13/9/24

जिला यक्ष्मा पदाधिकारी  
हजारीबाग



**Annexure-IX**  
**Hazaribagh WLS\_ Notification**



4. भू-अभिलेख में सदृश्य वृद्धियों के सुधार के लिए व्यवहार किए गए मामलों का सारांश (पारिस्थितिकी संवेदी जोन वार)। ब्यौरे उपाबंध के रूप में संलग्न किए जाएं।
5. पर्यावरण समाघात निर्धारण अधिसूचना, 2006 के अधीन आने वाले क्रियाकलापों की संदीक्षा के मामलों का सारांश। (ब्यौरे एक पृथक् उपाबंध के रूप में संलग्न किए जाएं)।
6. पर्यावरण समाघात निर्धारण अधिसूचना, 2006 के अधीन न आने वाली गतिविधियों की संदीक्षा के मामलों का सारांश। (ब्यौरे एक पृथक् उपाबंध के रूप में संलग्न किए जाएं)।
7. पर्यावरण (संरक्षण) अधिनियम, 1986 की धारा 19 के अधीन दर्ज की गई शिकायतों का सारांश।
8. कोई अन्य महत्वपूर्ण विषय।

## MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

### NOTIFICATION

New Delhi, the 1st August, 2019

**S.O. 2775(E).**—WHEREAS, a draft notification was published in the Gazette of India, Extraordinary, *vide* notification of the Government of India in the Ministry of Environment, Forest and Climate Change number S.O. 695 (E) dated the 8<sup>th</sup> February, 2018, inviting objections and suggestions from all persons likely to be affected thereby within the period of sixty days from the date on which copies of the Gazette containing the said notification were made available to the public;

**AND WHEREAS**, copies of the Gazette containing the said draft notification were made available to the public on the 16<sup>th</sup> February, 2018;

**AND WHEREAS**, objections and suggestions were received from persons and stakeholders in response to the aforesaid draft notification were duly considered in the Ministry;

**WHEREAS**, Hazaribag Wildlife Sanctuary lies between latitudes 24<sup>0</sup>01' to 24<sup>0</sup>12' North and longitudes 85<sup>0</sup>13' and 85<sup>0</sup>32' East in the Hazaribag district of Jharkhand. The Sanctuary occupies an area of 186.25 square kilometers and is roughly rectangular in shape covering a length of about 26 kilometers from East to West and a breadth of about 7 kilometers from North to South. It extends over 72 villages falling under the revenue thanas of Hazaribag, Ichak and Padma;

**AND WHEREAS**, Hazaribag Wildlife Sanctuary has a wide range of biodiversity. In the past, the protected area was known as the home of sambhar, the largest deer species of India. The habitat is also now shared by cheetals, wild boars, black bears, jackals, porcupines, hyenas, pangolins, hares, etc. The important bird species which can be spotted frequently are serpent eagle, paradise fly catcher, king fisher, bee eater, swift, different types of babblers, black drongo, wood pecker, lapwing, pea fowl, pond heron, egret, etc. Sometimes carnivores like wolves and leopards are also spotted. In the District Gazetteer of Hazaribag, 1917, it was observed that the hills of Danto served as the permanent habitat of tigers and that of leopards which were frequently visited the town of Hazaribag. The forests of the Sanctuary also fall in the home range of elephant;

**AND WHEREAS**, Hazaribag Wildlife Sanctuary lies in the catchments of many small river systems like Kweta, Siwane and Daita. The protected area also serves as the catchments of many rain-fed natural streams and lakes. The forests of the protected area intercept rainfall to help recharge ground water aquifer and protect the river streams against silting by checking soil erosion;

**AND WHEREAS**, the protected area is home to diverse types of forests - Northern Indian Moist Deciduous Forest, Moist and Dry Peninsular Sal Forest and Northern Dry Mixed Deciduous Forest - and is an excellent habitat for significant populations of 16 species of mammals, 124 species of birds and 142 species of flora, including leopards, sloth bears, pangolins, python, etc., which are all endangered species;

**AND WHEREAS**, it is necessary to conserve and protect the area, the extent and boundaries of Hazaribag Wildlife Sanctuary which are specified in paragraph 1 as Eco-sensitive Zone from ecological, environmental and biodiversity point of view and to prohibit industries or class of industries and their operations and processes in the said Eco-sensitive Zone;



**NOW, THEREFORE,** in exercise of the powers conferred by sub-section (1) and clauses (v) and (xiv) of sub-section (2) and sub-section (3) of section 3 of the Environment (Protection) Act 1986 (29 of 1986) (hereafter in this notification referred to as the Environment Act) read with sub-rule (3) of rule 5 of the Environment (Protection) Rules, 1986, the Central Government hereby notifies an area to an extent varying from 900 meters to 5 kilometres around the boundary of Hazaribag Wildlife Sanctuary, in Hazaribag district in the State of Jharkhand as the Eco-sensitive Zone (hereafter in this notification referred to as the Eco-sensitive Zone) details of which are as under, namely: -

1. **Extent and boundaries of Eco-sensitive Zone.** - (1) The Eco-sensitive Zone shall be to an extent of 900 meters to 5 kilometres around the boundary of Hazaribag Wildlife Sanctuary and the area of the Eco-sensitive Zone is **573.86 square kilometres.**
  - (2) The boundary description of Hazaribag Wildlife Sanctuary and its Eco-sensitive Zone is appended in **Annexure-I.**
  - (3) The maps of the Hazaribag Wildlife Sanctuary demarcating Eco-sensitive Zone along with boundary details and latitudes and longitudes are appended as **Annexure-II.**
  - (4) List of geo-coordinates of the boundary of Hazaribag Wildlife Sanctuary and Eco-sensitive Zone are given in Table A and Table B of **Annexure-III.**
  - (5) The list of villages falling in the Eco-sensitive Zone along with their geo co-ordinates at prominent points is appended as **Annexure-IV.**
2. **Zonal Master Plan for Eco-sensitive Zone.**- (1) The State Government shall, for the purposes of the Eco-sensitive Zone prepare a Zonal Master Plan within a period of two years from the date of publication of this notification in the Official Gazette, in consultation with local people and adhering to the stipulations given in this notification for approval of the competent authority of State.
  - (2) The Zonal Master Plan for the Eco-sensitive Zone shall be prepared by the State Government in such manner as is specified in this notification and also in consonance with the relevant Central and State laws and the guidelines issued by the Central Government, if any.
  - (3) The Zonal Master Plan shall be prepared in consultation with the following Departments of the State Government, for integrating the ecological and environmental considerations into the said plan:-
    - (i) Environment;
    - (ii) Forest and Wildlife;
    - (iii) Agriculture and Horticulture;
    - (iv) Revenue;
    - (v) Urban Development;
    - (vi) Tourism including eco-tourism;
    - (vii) Rural Development;
    - (viii) Irrigation and Flood Control;
    - (ix) Municipal and Urban Development;
    - (x) Panchayati Raj;
    - (xi) Public Works Department and
    - (xii) Jharkhand State Pollution Control Board.
  - (4) The Zonal Master Plan shall not impose any restriction on the approved existing land use, infrastructure and activities, unless so specified in this notification and the Zonal Master Plan shall factor in improvement of all infrastructure and activities to be more efficient and eco-friendly.
  - (5) The Zonal Master Plan shall provide for restoration of denuded areas, conservation of existing water bodies, management of catchment areas, watershed management, groundwater management, soil and moisture conservation, needs of local community and such other aspects of the ecology and environment that need attention.
  - (6) The Zonal Master Plan shall demarcate all the existing worshipping places, villages and urban settlements, types and kinds of forests, agricultural areas, fertile lands, green area, such as, parks and like places, horticultural areas, orchards, lakes and other water bodies with supporting maps giving details of existing and proposed land use features.
  - (7) The Zonal Master Plan shall regulate development in Eco-sensitive Zone and adhere to prohibited and regulated activities listed in the Table in paragraph 4 and also ensure and promote eco-friendly development for security of local communities' livelihood.
  - (8) The Zonal Master Plan shall be **co-terminus** with the Regional Development Plan.



(9) The Zonal Master Plan so approved shall be the reference document for the Monitoring Committee for carrying out its functions of monitoring in accordance with the provisions of this notification.

**3. Measures to be taken by the State Government.-** The State Government shall take the following measures for giving effect to the provisions of this notification, namely:-

(1) **Land use.-** (a) Forests, horticulture areas, agricultural areas, parks and open spaces earmarked for recreational purposes in the Eco-sensitive Zone shall not be used or converted into areas for commercial or residential or industrial activities:

Provided that the conversion of agricultural and other lands, for the purpose other than that specified at part (a) above, within the Eco-sensitive Zone may be permitted on the recommendation of the Monitoring Committee, and with the prior approval of the competent authority under Regional Town Planning Act and other rules and regulations of Central Government or State Government as applicable and *vide* provisions of this Notification, to meet the residential needs of the local residents and for activities such as:-

- (i) widening and strengthening of existing roads and construction of new roads;
- (ii) construction and renovation of infrastructure and civic amenities;
- (iii) small scale industries not causing pollution;
- (iv) cottage industries including village industries; convenience stores and local amenities supporting eco-tourism including home stay; and
- (v) promoted activities given under paragraph 4:

Provided further that no use of tribal land shall be permitted for commercial and industrial development activities without the prior approval of the competent authority under Regional Town Planning Act and other rules and regulations of the State Government and without compliance of the provisions of article 244 of the Constitution or the law for the time being in force, including the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 (2 of 2007):

Provided also that any error appearing in the land records within the Eco-sensitive Zone shall be corrected by the State Government, after obtaining the views of Monitoring Committee, once in each case and the correction of said error shall be intimated to the Central Government in the Ministry of Environment, Forest and Climate Change:

Provided also that the correction of error shall not include change of land use in any case except as provided under this sub-paragraph;

(b) efforts shall be made to reforest the unused or unproductive agricultural areas with afforestation and habitat restoration activities.

(2) **Natural water bodies.-**The catchment areas of all natural springs shall be identified and plans for their conservation and rejuvenation shall be incorporated in the Zonal Master Plan and the guidelines shall be drawn up by the State Government in such a manner as to prohibit development activities at or near these areas which are detrimental to such areas.

(3) **Tourism or Eco-tourism.-** (a) All new eco-tourism activities or expansion of existing tourism activities within the Eco-sensitive Zone shall be as per the Tourism Master Plan for the Eco-sensitive Zone;

(b) the Eco-Tourism Master Plan shall be prepared by the State Department of Tourism in consultation with State Departments of Environment and Forests;

(c) the Tourism Master Plan shall form a component of the Zonal Master Plan;

(d) the Tourism Master Plan shall be drawn based on the study of carrying capacity of the Eco-sensitive Zone;

(e) the activities of eco-tourism shall be regulated as under, namely:-

(i) new construction of hotels and resorts shall not be allowed within one kilometre from the boundary of the protected area or up to the extent of the Eco-sensitive Zone whichever is nearer:

Provided that beyond the distance of one kilometre from the boundary of the protected area till the extent of the Eco-sensitive Zone, the establishment of new hotels and resorts shall be allowed only in pre-defined and designated areas for eco-tourism facilities as per Tourism Master Plan;

(ii) all new tourism activities or expansion of existing tourism activities within the Eco-sensitive Zone shall be in accordance with the guidelines issued by the Central Government in the Ministry of Environment, Forest and Climate Change and the eco-tourism guidelines issued by National Tiger



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Conservation Authority (as amended from time to time) with emphasis on eco-tourism, eco-education and eco-development;

(iii) until the Zonal Master Plan is approved, development for tourism and expansion of existing tourism activities shall be permitted by the concerned regulatory authorities based on the actual site specific scrutiny and recommendation of the Monitoring Committee and no new hotel, resort or commercial establishment construction shall be permitted within Eco-sensitive Zone area.

- (4) **Natural heritage.**- All sites of valuable natural heritage in the Eco-sensitive Zone, such as the gene pool reserve areas, rock formations, waterfalls, springs, gorges, groves, caves, points, walks, rides, cliffs, etc. shall be identified and a heritage conservation plan shall be drawn up for their preservation and conservation as a part of the Zonal Master Plan.
- (5) **Man-made heritage sites.**- Buildings, structures, artefacts, areas and precincts of historical, architectural, aesthetic, and cultural significance shall be identified in the Eco-sensitive Zone and heritage conservation plan for their conservation shall be prepared as part of the Zonal Master Plan.
- (6) **Noise pollution.** - Prevention and control of noise pollution in the Eco-sensitive Zone shall be complied in accordance with the provisions of the Noise Pollution (Regulation and Control) Rules, 2000 under the Environment Act.
- (7) **Air pollution.**- Prevention and control of air pollution in the Eco-sensitive Zone shall be compiled in accordance with the provisions of the Air (Prevention and Control of Pollution) Act, 1981 (14 of 1981) and the rules made thereunder.
- (8) **Discharge of effluents.**- Discharge of treated effluent in Eco-sensitive Zone shall be in accordance with the provisions of the General Standards for Discharge of Environmental Pollutants covered under the Environment Act and the rules made thereunder or standards stipulated by State Government whichever is more stringent.
- (9) **Solid wastes.**- Disposal and Management of solid wastes shall be as under:-
  - (a) the solid waste disposal and management in the Eco-sensitive Zone shall be carried out in accordance with the Solid Waste Management Rules, 2016, published by the Government of India in the Ministry of Environment, Forest and Climate Change *vide* notification number S.O. 1357 (E), dated the 8<sup>th</sup> April, 2016; the inorganic material may be disposed in an environmental acceptable manner at site identified outside the Eco-sensitive Zone;
  - (b) safe and Environmentally Sound Management (ESM) of Solid wastes in conformity with the existing rules and regulations using identified technologies may be allowed within Eco-sensitive Zone.
- (10) **Bio-Medical Waste.**- Bio Medical Waste Management shall be as under:-
  - (a) the Bio-Medical Waste disposal in the Eco-sensitive Zone shall be carried out in accordance with the Bio-Medical Waste Management, Rules, 2016 published by the Government of India in the Ministry of Environment, Forest and Climate Change *vide* notification number G.S.R 343 (E), dated the 28<sup>th</sup> March, 2016;
  - (b) safe and Environmentally Sound Management of Bio-Medical Wastes in conformity with the existing rules and regulations using identified technologies may be allowed within the Eco-sensitive Zone.
- (11) **Plastic waste management.**- The plastic waste management in the Eco-sensitive Zone shall be carried out as per the provisions of the Plastic Waste Management Rules, 2016, published by the Government of India in the Ministry of Environment, Forest and Climate Change *vide* notification number G.S.R. 340(E), dated the 18<sup>th</sup> March, 2016, as amended from time to time.
- (12) **Construction and demolition waste management.**- The construction and demolition waste management in the Eco-sensitive Zone shall be carried out as per the provisions of the Construction and Demolition Waste Management Rules, 2016 published by the Government of India in the Ministry of Environment, Forest and Climate Change *vide* notification number G.S.R. 317(E), dated the 29<sup>th</sup> March, 2016, as amended from time to time.
- (13) **E-waste.**- The e - waste management in the Eco-sensitive Zone shall be carried out as per the provisions of the E-Waste Management Rules, 2016, published by the Government of India in the Ministry of Environment, Forest and Climate Change, as amended from time to time.
- (14) **Vehicular traffic.**- The vehicular movement of traffic shall be regulated in a habitat friendly manner and specific provisions in this regard shall be incorporated in the Zonal Master Plan and till such time as the Zonal Master plan is prepared and approved by the Competent Authority in the State Government, the



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Monitoring Committee shall monitor compliance of vehicular movement under the relevant Acts and the rules and regulations made thereunder.

- (15) **Vehicular pollution.**- Prevention and control of vehicular pollution shall be in compliance with applicable laws and efforts shall be made for use of cleaner fuels.
- (16) **Industrial units.**- (i) On or after the publication of this notification in the Official Gazette, no new polluting industries shall be permitted to be set up within the Eco-sensitive Zone;
- (ii) only non-polluting industries shall be allowed within Eco-sensitive Zone as per the classification of Industries in the guidelines issued by the Central Pollution Control Board in February, 2016, unless so specified in this notification, and in addition, the non-polluting cottage industries shall be promoted.
- (17) **Protection of hill slopes.**- The protection of hill slopes shall be as under:-
- (a) the Zonal Master Plan shall indicate areas on hill slopes where no construction shall be permitted;
- (b) construction on existing steep hill slopes or slopes with a high degree of erosion shall not be permitted.
4. **List of activities prohibited or to be regulated within Eco-sensitive Zone.**- All activities in the Eco sensitive Zone shall be governed by the provisions of the Environment Act and the rules made there under including the Coastal Regulation Zone, 2011 and the Environmental Impact Assessment Notification, 2006 and other applicable laws including the Forest (Conservation) Act, 1980 (69 of 1980), the Indian Forest Act, 1927 (16 of 1927), the Wildlife (Protection) Act 1972 (53 of 1972), and amendments made thereto and be regulated in the manner specified in the Table below, namely:-

TABLE

S. No. (1)	Activity (2)	Description (3)
<b>A. Prohibited Activities</b>		
1.	Commercial mining, stone quarrying and crushing units.	(a) All new and existing mining (minor and major minerals), stone quarrying and crushing units are prohibited with immediate effect except for meeting the domestic needs of bona fide local residents including digging of earth for construction or repair of houses and for manufacture of country tiles or bricks for housing and for personal consumption;
		(b) The mining operations shall be carried out in accordance with the order of the Hon'ble Supreme Court dated the 4 <sup>th</sup> August, 2006 in the matter of T.N. Godavarman Thirumulpad Vs. UOI in W.P.(C) No.202 of 1995 and dated the 21 <sup>st</sup> April, 2014 in the matter of Goa Foundation Vs. UOI in W.P.(C) No.435 of 2012.
2.	Setting of industries causing pollution (Water, Air, Soil, Noise, etc.).	New industries and expansion of existing polluting industries in the Eco-sensitive Zone shall not be permitted:  Provided that non-polluting industries shall be allowed within Eco-sensitive Zone as per classification of Industries in the guidelines issued by the Central Pollution Control Board in February, 2016, unless otherwise specified in this notification and in addition the non-polluting cottage industries shall be promoted.
3.	Establishment of major hydro-electric project.	Prohibited (except as otherwise provided) as per the applicable laws.
4.	Use or production or processing of any hazardous substances.	Prohibited (except as otherwise provided) as per the applicable laws.
5.	Discharge of untreated effluents in natural water bodies or land area.	Prohibited (except as otherwise provided) as per the applicable laws.
6.	Setting up of new saw mills and wood	New or expansion of existing saw mills shall not be



S. No. (1)	Activity (2)	Description (3)
	based industries.	permitted within the Eco-sensitive Zone.
7.	Commercial use of firewood.	Prohibited (except as otherwise provided) as per applicable laws.
8.	Setting up of brick kilns.	Prohibited (except as otherwise provided) as per the applicable laws.
<b>B. Regulated Activities</b>		
9.	Commercial establishment of hotels and resorts.	No new commercial hotels and resorts shall be permitted within one kilometer of the boundary of the protected area or upto the extent of Eco-sensitive Zone, whichever is nearer, except for small temporary structures for eco-tourism activities:  Provided that, beyond one kilometer from the boundary of the protected area or upto the extent of Eco-sensitive Zone whichever is nearer, all new tourist activities or expansion of existing activities shall be in conformity with the Tourism Master Plan and guidelines as applicable.
10.	Construction activities.	(a) New commercial construction of any kind shall not be permitted within one kilometer from the boundary of the protected area or upto extent of the Eco-sensitive Zone, whichever is nearer:  Provided that, local people shall be permitted to undertake construction in their land for their use including the activities mentioned in sub-paragraph (1) of paragraph 3 as per building bye-laws to meet the residential needs of the local residents.  Provided further that the construction activity related to small scale industries not causing pollution shall be regulated and kept at the minimum, with the prior permission from the competent authority as per applicable rules and regulations, if any.  (b) Beyond one kilometer it shall be regulated as per the Zonal Master Plan.
11.	Ongoing agriculture and horticulture practices by local communities along with dairies, dairy farming, aquaculture and fisheries.	Permitted as per the applicable laws for use of locals.
12.	Establishment of large-scale commercial livestock and poultry farms by firms, corporate and companies.	Regulated (except otherwise provided) as per the applicable laws except for meeting local needs.
13.	Small scale non polluting industries.	Non polluting industries as per classification of industries issued by the Central Pollution Control Board in February, 2016 and non-hazardous, small-scale and service industry, agriculture, floriculture, horticulture or agro-based industry producing products from indigenous materials from the Eco-sensitive Zone shall be permitted by the competent Authority.
14.	Felling of trees.	(a) There shall be no felling of trees in the forest or Government or revenue or private lands without prior permission of the Competent Authority in the State Government.  (b) The felling of trees shall be regulated in accordance with the provisions of the concerned Central or State Act and



S. No. (1)	Activity (2)	Description (3)
		the rules made thereunder.
15.	Collection of Forest produce or Non-Timber Forest produce.	Regulated as per the applicable laws.
16.	Erection of electrical and communication towers and laying of cables and other infrastructures.	Regulated under applicable laws (underground cabling may be promoted).
17.	Infrastructure including civic amenities.	Taking measures of mitigation as per the applicable laws, rules and regulations available guidelines.
18.	Widening and strengthening of existing roads and construction of new roads.	Taking measures of mitigation as per the applicable laws, rules and regulation and available guidelines.
19.	Undertaking other activities related to tourism like flying over the Eco-sensitive Zone area by hot air balloon, helicopter, drones, Microlites, etc.	Regulated as per the applicable laws.
20.	Protection of hill slopes and river banks.	Regulated as per the applicable laws.
21.	Movement of vehicular traffic at night.	Regulated for commercial purpose under applicable laws.
22.	Discharge of treated waste water or effluents in natural water bodies or land area.	The discharge of treated waste water or effluents shall be avoided to enter into the water bodies and efforts shall be made for recycle and reuse of treated waste water. Otherwise the discharge of treated waste water or effluent shall be regulated as per the applicable laws.
23.	Commercial extraction of surface and ground water.	Regulated as per the applicable laws.
24.	Open Well, Bore Well etc. for agriculture or other usage	Regulated and the activity should be strictly monitored by the appropriate authority.
25.	Use of polythene bags.	Regulated as per the applicable laws.
26.	Solid waste management.	Regulated as per the applicable laws.
27.	Introduction of exotic species.	Regulated as per the applicable laws.
28.	Commercial sign boards and hoardings.	Regulated as per the applicable laws.
29.	Eco-tourism.	Regulated as per the applicable laws.
<b>C. Promoted Activities</b>		
30.	Rain water harvesting.	Shall be actively promoted.
31.	Organic farming.	Shall be actively promoted.
32.	Adoption of green technology for all activities.	Shall be actively promoted.
33.	Cottage industries including village artisans, etc.	Shall be actively promoted.
34.	Use of renewable energy and fuels.	Bio-gas, solar light etc. shall be actively promoted.
35.	Agro-Forestry.	Shall be actively promoted.
36.	Plantation of Horticulture and Herbals.	Shall be actively promoted.
37.	Use of eco-friendly transport.	Shall be actively promoted.
38.	Skill Development.	Shall be actively promoted.



S. No. (1)	Activity (2)	Description (3)
39.	Restoration of degraded land/ forests/ habitat.	Shall be actively promoted.
40.	Environmental awareness.	Shall be actively promoted.

**5. Monitoring Committee for Monitoring the Eco-sensitive Zone Notification.-** For effective monitoring of the provisions of this notification under sub-section (3) of section 3 of the Environment (Protection) Act, 1986, the Central Government hereby constitutes a Monitoring Committee, comprising of the following, namely:-

- |        |   |                      |
|--------|---|----------------------|
| (i)    | Commissioner, North Chhotanagpur Division, Hazaribag  | Chairman, ex officio |
| (ii)   | Representative of State Pollution Control Board   | Member;              |
| (iii)  | A representative of Non-governmental Organisation working in the field of wildlife conservation to be nominated by the State Government | Member;              |
| (iv)   | A representative nominated by the Forest & Environment Department of Jharkhand  | Member;              |
| (v)    | A expert in Biodiversity nominated by the State Government  | Member;              |
| (vi)   | One expert in Ecology from reputed institution or university of the State   | Member;              |
| (vii)  | Concerned territorial Divisional Forest Officer   | Member;              |
| (viii) | Divisional Forest Officer-In Charge of Protected Area   | Member-Secy.         |

**6. Terms of reference. –** (1) The Monitoring Committee shall monitor the compliance of the provisions of this notification.

- (2) The tenure of the Monitoring committee shall be for three years or till the re-constitution of the new Committee by the State Government and subsequently the Monitoring Committee shall be constituted by the State Government.
- (3) The activities that are covered in the Schedule to the notification of the Government of India in the erstwhile Ministry of Environment and Forests number S.O. 1533 (E), dated the 14<sup>th</sup> September, 2006, and are falling in the Eco-sensitive Zone, except for the prohibited activities as specified in the Table under paragraph 4 thereof, shall be scrutinised by the Monitoring Committee based on the actual site-specific conditions and referred to the Central Government in the Ministry of Environment, Forest and Climate Change for prior environmental clearances under the provisions of the said notification.
- (4) The activities that are not covered in the Schedule to the notification of the Government of India in the erstwhile Ministry of Environment and Forests number S.O. 1533 (E), dated the 14<sup>th</sup> September, 2006 and are falling in the Eco-sensitive Zone, except for the prohibited activities as specified in the Table under paragraph 4 thereof, shall be scrutinised by the Monitoring Committee based on the actual site-specific conditions and referred to the concerned regulatory authorities.
- (5) The Member-Secretary of the Monitoring Committee or the concerned Deputy Commissioner(s) shall be competent to file complaints under section 19 of the Environment Act, against any person who contravenes the provisions of this notification.
- (6) The Monitoring Committee may invite representatives or experts from concerned Departments, representatives from industry associations or concerned stakeholders to assist in its deliberations depending on the requirements on issue to issue basis.
- (7) The Monitoring Committee shall submit the annual action taken report of its activities as on the 31<sup>st</sup> March of every year by the 30<sup>th</sup> June of that year to the Chief Wildlife Warden in the State as per proforma appended at Annexure V.
- (8) The Central Government in the Ministry of Environment, Forest and Climate Change may give such directions, as it deems fit, to the Monitoring Committee for effective discharge of its functions.



7. The Central Government and State Government may specify additional measures, if any, for giving effect to provisions of this notification.

8. The provisions of this notification shall be subject to the orders, if any passed or to be passed by the Hon'ble Supreme Court of India or High Court or the National Green Tribunal.

[F. No. 25/66/2015-ESZ-RE]

Dr. SATISH C. GARKOTI, Scientist 'G'

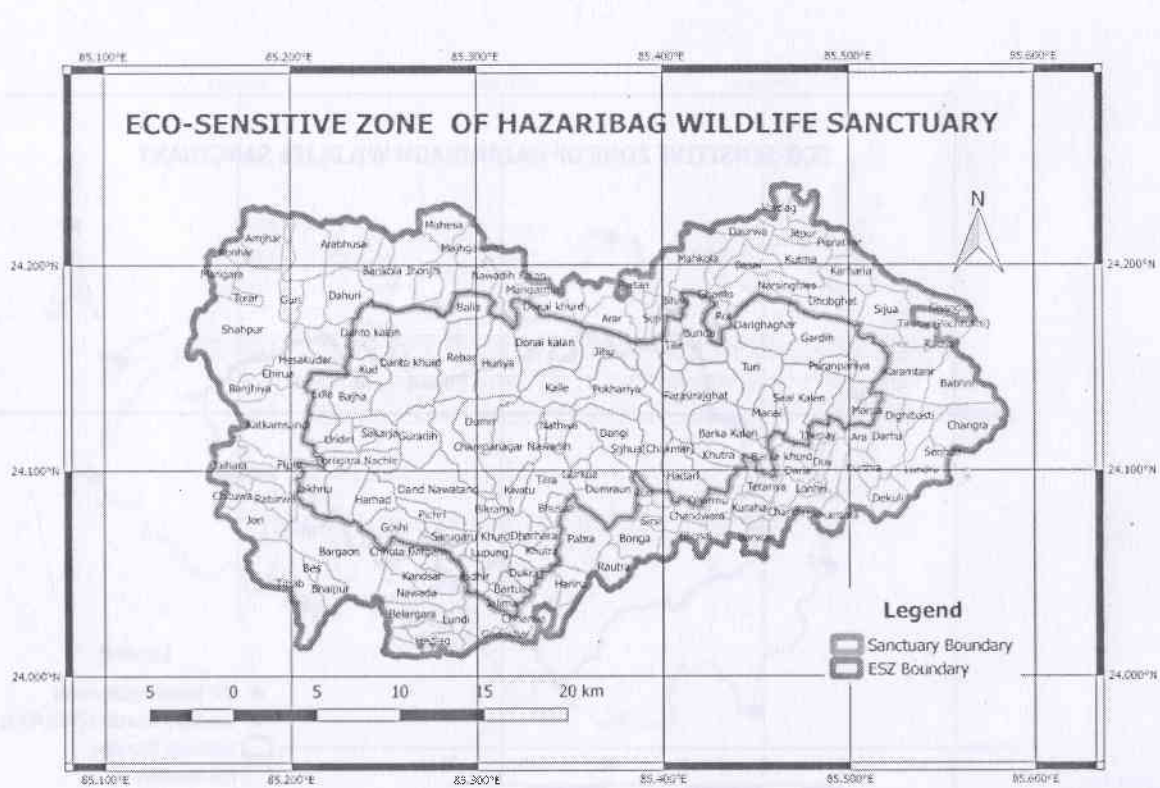
**Annexure-I**

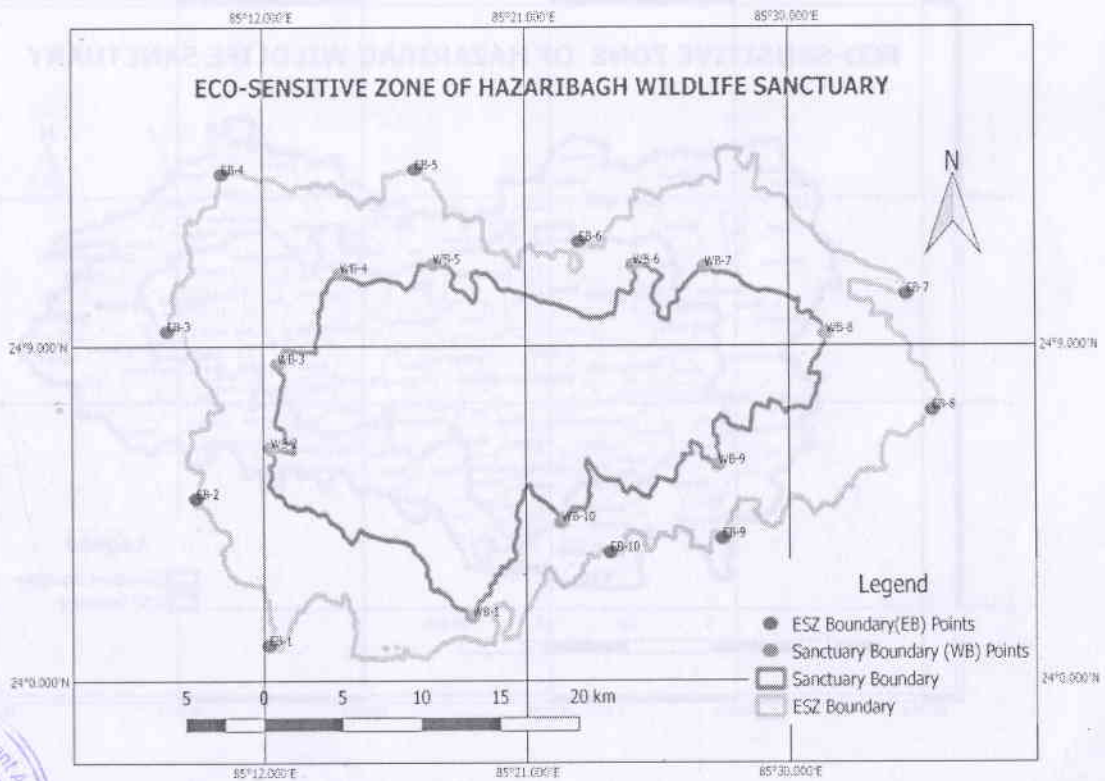
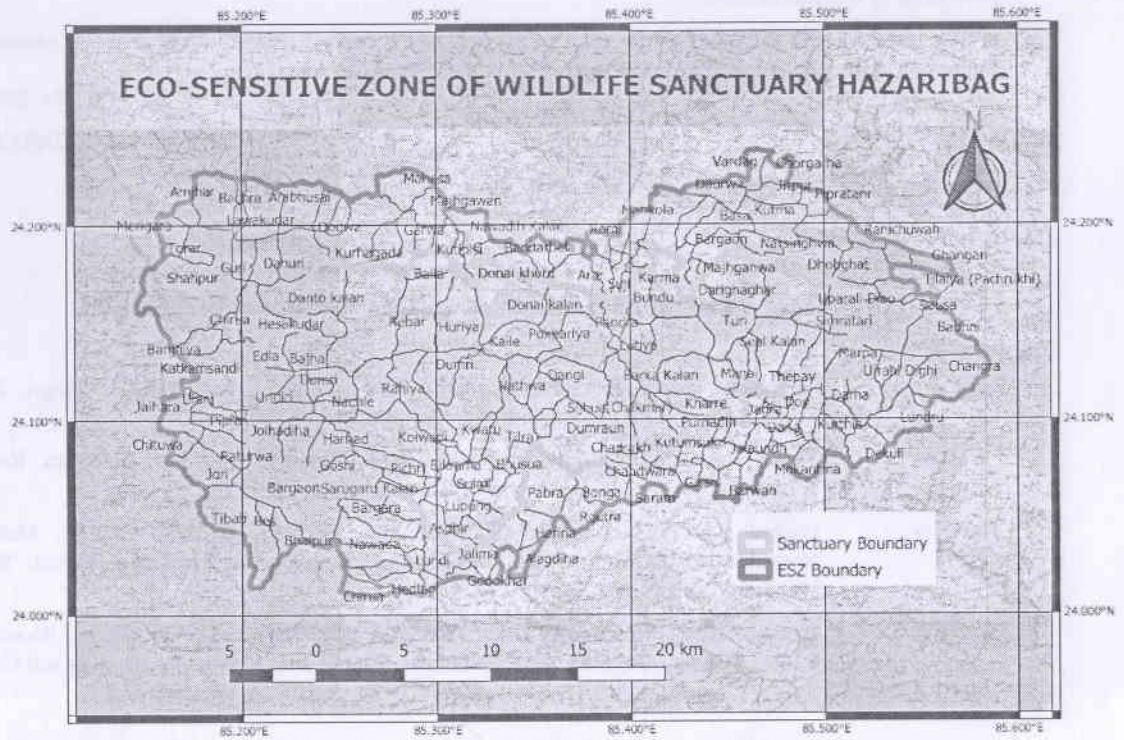
**Boundaries of the ESZ around Hazaribag Wildlife Sanctuary**

- East :-** Chorgarha, Jitpur, Pipratanr, Karharia, Rani Chunwa, Meramgarah, Ghangri, Tilaia (Pachrukhi), Rausa, Babhni, Chengra, Senhda, Lundru and Dekuli Villages.
- West :-** Tibab, Jori, Chituwa, Jaihara, Katkamsandi, Banjhiya, Shahpur, Marigara, Konhar and Amjhar Villages.
- North :-** Bachra, Lawakudar, Arabhusai, Mauhgain, Donrwa, Barikola Jhonjhi, Mahesa, Majhgawan, Nawadih Kalan, Mungarmao, Donaikhurd, Bandarbela, Kandadag, Partan, Romi, Champadih, Mahkola, Daurwa and Bardag Villages.
- South :-** Banshi Nagar, Mokantma, Urka, Chanda, Asia, Barwa, Gunja, Girahi, Bhusai, Saram, Bonga, Rautra, Harina, Alagdiha, Atia, Godokhar, Garke alias Gobindpur, Hedlag and Chirua Villages.

**Annexure-II**

**Map of Hazaribag Wildlife Sanctuary, Jharkhand along with Eco-Sensitive Zone**





## Annexure-III

Table A -GPS Co-ordinates of 10 Important Points on Hazaribag Wildlife Sanctuary Boundary

GPS Co-ordinates of 10 Important Points on Hazaribag Wildlife Sanctuary Boundary		
Points	Latitude (N)	Longitude (E)
WB-1	24.0287353	85.3188341
WB-2	24.1044644	85.204184
WB-3	24.1420867	85.2084227
WB-4	24.182815	85.2445153
WB-5	24.1868478	85.2973236
WB-6	24.1865578	85.4114566
WB-7	24.1855639	85.4522232
WB-8	24.155473	85.5210726
WB-9	24.096679	85.4596269
WB-10	24.0712338	85.3701658

Table B-GPS Co-ordinates of 10 Important Points on Hazaribag Wildlife Sanctuary's ESZ Boundary

GPS Co-ordinates of 10 Important Points on Hazaribag Wildlife Sanctuary's ESZ Boundary		
Points	Latitude (N)	Longitude (E)
EB-1	24.015983	85.2029421
EB-2	24.0818193	85.1611126
EB-3	24.1567857	85.1448759
EB-4	24.2272691	85.1764729
EB-5	24.2293016	85.2872968
EB-6	24.1968733	85.3806201
EB-7	24.1733697	85.5668853
EB-8	24.1210868	85.5816588
EB-9	24.0637773	85.4618692
EB-10	24.0577175	85.397699

## Annexure-IV

DETAILS OF ENCLAVED VILLAGES OF HAZARIBAG WILDLIFE SANCTUARY FOR IDENTIFICATION OF ECO SENSITIVE ZONE

Sl. No	Name of Village	Admm Block	GPS.Co-ordinates	Town/ Village code as per Census of India , 2011
1	2	3	4	5
1	Rahea	Ichak	24.1123 N, 85.2881 E	368052
2	Kaile	Ichak	24.1406 N, 85.3404 E	368065
3	Champanagar Nawadih	Ichak	24.1123 N, 85.3163 E	368054



4	Mathwa (Nathwa)	Ichak	24.1225 N 85.3411 E	368064
5	Tilra	Ichak	24.0960 N 85.3344 E	368058
6	Bhuswa	Ichak	24.0822 N 85.3397 E	368059
7	Bikrama	Ichak	24.0818 N 85.3068 E	368056
8	Koatu	Ichak	24.0911 N 85.3202 E	368057
9	Pokharia	Ichak	24.1400 N 85.3724 E	368066
10	Pandra	Ichak	24.1548 N 85.3901 E	368067
11	Lotwa	Ichak	24.1429 N 85.4013 E	368068
12	Sijhua	Ichak	24.1110 N 85.3916 E	368081
13	Dangi	Ichak	24.1187 N 85.3710 E	368063
14	Fuldaha	Ichak	24.1136 N 85.3530 E	368062
15	Hadari	Ichak	24.0976 N 85.4079 E	368080
16	Dumraun	Ichak	24.0914 N 85.3678 E	368060
17	Gurkua	Ichak	24.0986 N 85.3526 E	368061
18	Parasirajghat	Ichak	24.1426 N 85.4237 E	368069
19	Puranpania	Ichak	24.1513 N 85.4918 E	368132
20	Seal Kalan	Ichak	24.1356 N 85.4704 E	368127
21	Kaladawar	Ichak	24.1356 N 85.4839 E	368133
22	Phuphundi.	Ichak	24.1343 N 85.4969 E	368134
23	Marpa	Ichak	24.1295 N 85.5066 E	368137
24	Seal khurd	Ichak	24.1306 N 85.4602 E	368128
25	Turi	Ichak	24.1508 N 85.4446 E	368129
26	Hasel	Ichak	24.1231 N 85.4455 E	368070
27	Manai	Ichak	24.1281 N 85.4533 E	368071
28	Barkakalan	Ichak	24.1184 N 85.4323 E	368074
29	Parasi	Ichak	24.0998 N 85.4231 E	368079
30	Khutra	Ichak	24.1080 N 85.4271 E	368075
31	Darighaghar	Ichak	24.1711 N 85.4523 E	368130
32	Gardih	Ichak	24.1649 N 85.4802 E	368131
33	Simratari	Ichak	24.1550 N 85.5070 E	368135
34	Dumri	Ichak	24.1244 N 85.2991 E	368053
35	Koiwadi or Kolwadih	Ichak	24.0885 N 85.3027 E	368055
36	Pichri	Katkamsandi	24.0793 N 85.2732 E	368631
37	Gosi	Katkamsandi	24.0730 N 85.2531 E	368632
	Sulmi	Katkamsandi	24.0721 N 85.3162 E	368648



13

39	Sarugaru Khurd	Katkamsandi	24.0680 N 85.2742 E	368629
40	Lupung	Katkamsandi	24.0607 N 85.3041 E	368647
41	Bahimar	Katkamsandi	24.0631 N 85.2797 E	368628
42	Asdhir	Katkamsandi	24.0492 N 85.2956 E	368643
43	Bartua	Katkamsandi	24.0430 N 85.3151 E	368645
44	Dukra	Katkamsandi	24.0507 N 85.3223 E	368646
45	Jalima	Katkamsandi	24.0362 N 85.3103 E	368644
46	Kumhiatanr	Katkamsandi	24.0613 N 85.2605 E	368633
47	Bargara	Katkamsandi	24.0554 N 85.2788 E	368634
48	Danr	Katkamsandi	24.0915 N 85.2767 E	368626
49	Gurudih	Katkamsandi	24.1173 N 85.2660 E	368625
50	Sakarja	Katkamsandi	24.1189 N 85.2453 E	368607
51	Nachle	Katkamsandi	24.1056 N 85.2459 E	368624
52	Dumri	Katkamsandi	24.1170 N 85.2365 E	368608
53	Hatkauna	Katkamsandi	24.0910 N 85.2264 E	368622
54	Lakhnu	Katkamsandi	24.0918 N 85.2097 E	368621
55	Harhad	Katkamsandi	24.0865 N 85.2416 E	368623
56	Edla	Katkamsandi	24.1381 N 85.2144 E	368612
57	Bajha	Katkamsandi	24.1367 N 85.2308 E	368606
58	Uridiri	Katkamsandi	24.1159 N 85.2233 E	368610
59	Borogara	Katkamsandi	24.1058 N 85.2227 E	368609
60	Kharika	Katkamsandi	24.1208 N 85.2127 E	368611
61	Dharhara	Katkamsandi	24.0688 N 85.3276 E	368649
62	Danto Kalan	Katkamsandi	24.1680 N 85.2406 E	368603
63	Danto Khurd	Katkamsandi	24.1534 N 85.2621 E	368602
64	Kud	Katkamsandi	24.1500 N 85.2395 E	368605
65	Balia	Katkamsandi	24.1802 N 85.2934 E	368599
66	Raibar	Katkamsandi	24.1557 N 85.2892 E	368601
67	Horeya	Katkamsandi	24.1528 N 85.3088 E	368600
68	Sarugaru Kalan	Katkamsandi	24.0696 N 85.2835 E	368630
69	Donai Kalan	Padma	24.1629 N 85.3339 E	368022
70	Jihu	Padma	24.1584 N 85.3658 E	368030
71	Tilir	Padma	24.1613 N 85.4030 E	368037
72	Bundu	Padma	24.1674 N 85.4170 E	368040



**ECO SENSITIVE ZONE IDENTIFICATION AND DETAILS OF AREA AROUND HAZARIBAG WILDLIFE SANCTUARY**

Sl. No	Name of Village	Admm Block	GPS.co-ordinates	Town/ Village code as per Census of India , 2011
1	2	3	4	5
1	Bardag	Barhi	24.2283 N 85.4601 E	367994
2	Chorgarha	Barhi	24.2272 N 85.4724 E	367997
3	Jitpur	Barhi	24.2158 N 85.4727 E	367998
4	Pipratanr	Barhi	24.2113 N 85.4922 E	368003
5	Daurwa (P)	Barhi	24.2209 N 85.4398 E	367894
6	Kutma	Barhi	24.2030 N 85.4717 E	367999
7	Karharia	Barhi	24.1974 N 85.4984 E	368002
8	Rani Chunwa (P)	Barhi	24.1949 N 85.5201 E	368006
9	Narsinghwa	Barhi	24.1904 N 85.4642 E	368000
10	Dhobghat	Barhi	24.1828 N 85.4884 E	368001
11	Meramgarah (P)	Barkatha	24.1904 N 85.5380E	368306
12	Ghangri (P)	Barkatha	24.1851 N 85.5547 E	368319
13	Sijua	Barkatha	24.1788 N 85.5173 E	368607
14	Tilaia Pachrukhi (P)	Barkatha	24.1702 N 85.5513 E	368318
15	Hethli Debo	Barkatha	24.1664 N 85.5337 E	368309
16	Upraili debo	Barkatha	24.1664 N 85.5138 E	368308
17	Babhni (P)	Barkatha	24.1485 N 85.5292 E	368145
18	Rausa	Barkatha	24.1619 N 85.5458 E	368310
19	Rautra	Hazaribag	24.0536 N 85.3705 E	368504
20	Karamtanr	Ichak	24.1485 N 85.5292 E	368136
21	Darha	Ichak	24.1485 N 85.5292 E	368142
22	Chandwara	Ichak	24.1222 N 85.5610 E	368092
23	Dighibasti	Ichak	24.1268 N 85.1202 E	368143
24	Ujrahi Dighi	Ichak	24.1198 N 85.14898 E	368144
25	Ambatanr	Ichak	24.1071 N 85.4611 E	368125
26	Barka khurd	Ichak	24.1071 N 85.4611 E	368073
27	Jagra	Ichak	24.1095 N 85.4729 E	368123
28	Thepai	Ichak	24.1174 N 85.4803 E	368126
29	Ara	Ichak	24.1164 N 85.5023 E	368138
30	Ratanpur	Ichak	24.1147N 85.4579 E	368072
31	Lundru	Ichak	24.1008 N 85.5359 E	368146
32	Naranga Pokharia	Ichak	24.1029 N 85.4902 E	368139
33	Doi	Ichak	24.1045 N 85.4829 E	368124
34	Kurthia	Ichak	24.1017 N 85.5049 E	368141
35	Daria	Ichak	24.1002 N 85.4696 E	368121
36	Kogidih	Ichak	24.1044 N 85.4737 E	368122
37	Kharre	Ichak	24.1038 N 85.4442 E	368076



38	Bansi Nagar	Ichak	24.0908 N 85.4998 E	368140
39	Rud	Ichak	24.0895 N 85.3866 E	368082
40	Jalaundh	Ichak	24.0896 N 85.4631 E	368110
41	Dharmu	Ichak	24.0858 N 85.4215 E	368115
42	Urka	Ichak	24.0851 N 85.4767 E	368119
43	Gobarbandha	Ichak	24.0862 N 85.3967 E	368083
44	Bariat	Ichak	24.0780 N 85.3978 E	368086
45	Chanda	Ichak	24.0802 N 85.4635 E	368111
46	Purnaichak alias Purnadih	Ichak	24.0942 N 85.4373 E	368078
47	Bandua	Ichak	24.0948 N 85.4446 E	368077
48	Dekuli	Ichak	24.0868 N 85.5177 E	368147
49	Tetaria	Ichak	24.0924 N 85.4530 E	368109
50	Lonhri	Ichak	24.0914 N 85.4765 E	368120
51	Kutumsukri	Ichak	24.0840 N 85.4281 E	368094
52	Moktama	Ichak	24.0787 N 85.4881 E	368117
53	Kurha	Ichak	24.0822 N 85.4436 E	368108
54	Chaprakh	Ichak	24.0825 N 85.4076 E	368085
55	Asalwar	Ichak	24.0800 N 85.4546 E	368112
56	Chhaoni	Ichak	24.0786 N 85.4314 E	368095
57	Gunja	Ichak	24.0725 N 85.4375 E	368097
58	Sirsi	Ichak	24.0759 N 85.3906 E	368087
59	Asia	Ichak	24.0721 N 85.4588 E	368113
60	Girhi	Ichak	24.0722 N 85.4271 E	368096
61	Bonga	Ichak	24.0674 N 85.3820 E	368088
62	Barwa	Ichak	24.0678 N 85.4478 E	368107
63	Bhusai	Ichak	24.0686 N 85.4148 E	368091
64	Simra	Ichak	24.0626 N 85.4365 E	368098
65	Saram	Ichak	24.0642 N 85.3994 E	368089
66	Chengra	Tati Jharia	24.11953 N 85.55844E	368190
67	Senhda	Tati Jharia	24.1094 N 85.5474 E	368192
68	Chirua	Katkamdag	24.0143 N 85.2592 E	368663
69	Mauhgain	Katkamsandi	24.2089 N 85.2409 E	368594
70	Donrwa	Katkamsandi	24.2045 N 85.2476 E	368595
71	Amjhar	Katkamsandi	24.2139 N 85.1830 E	368587
72	Bachra	Katkamsandi	24.2105 N 85.1960 E	368588
73	Lawa Kudar	Katkamsandi	24.2083 N 85.2068 E	368589
74	Arabhusai	Katkamsandi	24.2110 N 85.2270 E	368593
75	Barikola Jhonjh	Katkamsandi	24.1978 N 85.2577 E	368596
76	Kurhagada	Katkamsandi	24.1912 N 85.2803 E	368598
77	Nawa khap	Katkamsandi	24.1919 N 85.2717 E	368597
78	Dahuri	Katkamsandi	24.1859 N 85.2268 E	368592
79	Marigara	Katkamsandi	24.1964 N 85.1606 E	368583
80	Shahapur	Katkamsandi	24.1694 N 85.1714 E	368585
81	Jhardag	Katkamsandi	24.1823 N 85.2097 E	368591



82	Guri	Katkamsandi	24.1839 N 85.1976 E	368590
83	Kathoutia	Katkamsandi	24.1635 N 85.2192 E	368604
84	Chirua	Katkamsandi	24.1480 N 85.1906 E	368614
85	Banjhia	Katkamsandi	24.1407 N 85.1754 E	368615
86	Katkamsandi	Katkamsandi	24.1230 N 85.1906 E	368616
87	Ulanj	Katkamsandi	24.1072 N 85.1805 E	368617
88	Pundboru	Katkamsandi	24.0980 N 85.1872E	368618
89	Pabra	Katkamsandi	24.0673 N 85.3531 E	368651
90	Khutra	Katkamsandi	24.0614 N 85.3319 E	368650
91	Kansar	Katkamsandi	24.0494 N 85.2680 E	368635
92	Alagdiha	Katkamsandi	24.0288 N 85.3421 E	368657
93	Mayapur	Katkamsandi	24.0422 N 85.3346 E	368653
94	Harina	Katkamsandi	24.0453 N 85.3475 E	368652
95	Nawada	Katkamsandi	24.0412 N 85.2650 E	368636
96	Kachanpur	Katkamsandi	24.0296 N 85.3000 E	368642
97	Chharwa	Katkamsandi	24.0285 N 85.3221 E	368654
98	Atia	Katkamsandi	24.0220 N 85.3272 E	368655
99	Belargara	Katkamsandi	24.0310 N 85.2627 E	368638
100	Lunri	Katkamsandi	24.0282 N 85.2859 E	368637
101	Kisunawa	Katkamsandi	24.0234 N 85.2703 E	368639
102	Godokhar(p)	Katkamsandi	24.0158 N 85.3169 E	368659
103	Hedlag	Katkamsandi	24.0180 N 85.2734 E	368640
104	Garke alias Gobindpur (p)	Katkamsandi	24.0121 N 85.2924 E	368641
105	Konhar	Katkamsandi	24.2070 N 85.1682 E	368586
106	Torar	Katkamsandi	24.1848 N 85.1734 E	368584
107	Pipra	Katkamsandi	24.1039 N 85.1966 E	368619
108	Jolhadiha	Katkamsandi	24.0999 N 85.2011 E	368620
109	Hesa Kudar	Katkamsandi	24.1548 N 85.2052 E	368613
110	Bargara	Katkamsandi	24.0577 N 85.2732E	368634
111	Mahkola	Padma	24.2035 N 85.4165 E	368048
112	Harambar	Padma	24.2030 N 85.4302 E	368047
113	Basai	Padma	24.2002 N 85.4435 E	368046
114	Champadih	Padma	24.1971 N 85.4010 E	368049
115	Nawadih Kalan	Padma	24.1954 N 85.3147 E	368018
116	Romi	Padma	24.1949 N 85.3928 E	368050
117	Garwa	Padma	24.1937 N 85.2909 E	368020
118	Ghanto	Padma	24.1862 N 85.4258 E	368045
119	Bihari	Padma	24.1830 N 85.4040 E	368039
120	Surajpura	Padma	24.1834 N 85.3895 E	368034
121	Koiriadih	Padma	24.1939 N 85.3017 E	368019
122	Bargaon	Padma	24.1883 N 85.4442 E	368044
123	Partan	Padma	24.1908 N 85.3817 E	368033
124	Kutipisi	Padma	24.1836 N 85.3093 E	368021
125	Bandarbela	Padma	24.1844 N 85.3506 E	368029



126	Kandadag	Padma	24.1870 N 85.3628 E	368028
127	Mungarmao	Padma	24.1885 N 85.3275 E	368024
128	Donaikhurd	Padma	24.1804 N 85.3387 E	368023
129	Suji	Padma	24.1746 N 85.3915 E	368035
130	Tilaidih	Padma	24.1757 N 85.3833 E	368032
131	Arar	Padma	24.1745 N 85.3700 E	368031
132	Rol	Padma	24.1756 N 85.4299 E	368042
133	Karma	Padma	24.1775 N 85.4015 E	368038
134	Majhganwa	Padma	24.1781 N 85.4348 E	368043
135	Nawadih	Padma	24.1703 N 85.3955 E	368036
136	Sonpura	Padma	24.1715 N 85.4247 E	368041
137	Mahesa	Mayur hand	24.2203 N 85.2803 E	349231
138	Majhgawan	Mayur hand	24.2089 N 85.2939 E	349232
139	Jehra	Pathalgada	24.1034 N 85.1644 E	349274
140	Raturwa	Pathalgada	24.0868 N 85.1887 E	349275
141	Chitua	Pathalgada	24.0884 N 85.1660 E	349277
142	Jori	Pathalgada	24.0766 N 85.1780 E	349276
143	Bargaon	Simaria	24.0613 N 85.2233 E	349393
144	Tibab	Simaria	24.0458 N 85.1965 E	349390
145	Bes	Simaria	24.0533 N 85.2083 E	349391
146	Bhenpur	Simaria	24.0432 N 85.2184 E	349392

## Annexure-V

**Performa of Action Taken Report:**

1. Number and date of meetings.
2. Minutes of the meetings: (mention noteworthy points. Attach minutes of the meeting as separate Annexure).
3. Status of preparation of Zonal Master Plan including Tourism Master Plan.
4. Summary of cases dealt with rectification of error apparent on face of land record (Eco-sensitive Zone wise). Details may be attached as Annexure.
5. Summary of cases scrutinised for activities covered under the Environment Impact Assessment Notification, 2006 (Details may be attached as separate Annexure).
6. Summary of cases scrutinised for activities not covered under the Environment Impact Assessment Notification, 2006 (Details may be attached as separate Annexure).
7. Summary of complaints lodged under section 19 of the Environment (Protection) Act, 1986.
8. Any other matter of importance.