



सत्यमेव जयते

राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण, झारखण्ड

State Level Environment Impact Assessment Authority, Jharkhand

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राज्य स्तरीय पर्यावरण समाघात निर्धारण

प्राधिकरण (SEIAA), झारखण्ड।

सेवा में,

उपायुक्त,

जिला : दुमका,

झारखण्ड।

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

प्रसंग : आपका कार्यालय का पत्रांक-940 /खनन, दि0-10.08.2024।

महाशय,

उपर्युक्त विषयक आपके कार्यालय के प्रासंगिक पत्र दिनांक 10.08.2024 द्वारा दुमका जिला का पत्थर खनिज से संबंधित DSR की एक प्रति अनुमोदन हेतु दिनांक 13.08.2024 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 09.07.2024. 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

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

दुमका जिला का पथर खनिज से संबंधित अनुमोदित DSR की एक मूल प्रति अत्र-
सह-संलग्न कर आपको अग्रेतर कार्रवाई हेतु भेजा जा रहा है।
अनु० यथोक्त।

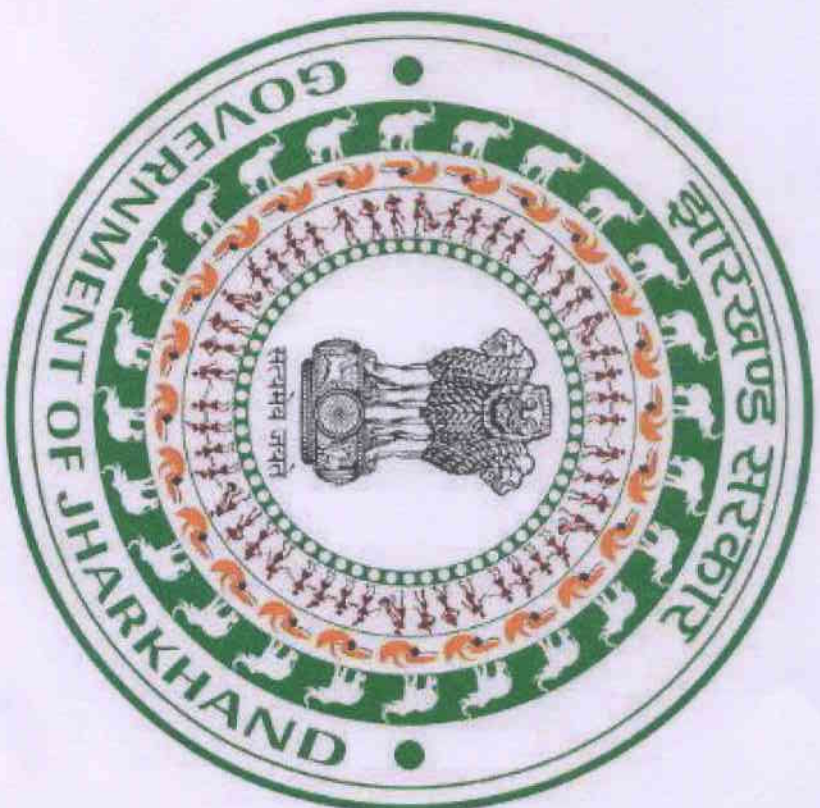
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सदस्य सचिव, *[Signature]*

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

11

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



DISTRICT SURVEY REPORT

OF

MINOR MINERAL--STONE/EARTH WORK
[OTHER THAN SAND MINING OR RIVER-BED MINING]

DUMKA 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

DUMKA DISTRICT, JHARKHAND



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



CERTIFICATE

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

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

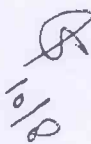
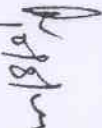


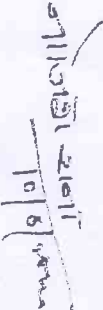


Authorized Signatory



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



The Deputy Commissioner through his letter 721/M, Dumka, dated 25.06.2024 had constituted the sub-divisional committee to monitor 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, Dumka	
2	Sub-Divisional Officer, Dumka	
3	District Mining Officer, Dumka	
4	Executive Engineer, Minor Irrigation Division, Dumka	
5	Assistant Director, Geology, Dumka	
6	Regional Officer, JSPCB, Regional Office, Dumka	


Deputy Commissioner
Dumka

Approved by,

Member

State Level Environment Impact
Assessment Authority, Jharkhand



16/06/24

State Level Environment Impact
Assessment Authority, Jharkhand

Chairman


15.10.24

SEIAA, Jharkhand


Member Secretary
State Level Environment
Impact Assessment Authority
Jharkhand

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



Contents

PREFACE	8
1 INTRODUCTION	9
1.1 Statutory Framework.....	10
1.2 Methodology of DSR Preparation.....	12
2 OVERVIEW OF MINING ACTIVITY IN THE DISTRICT	17
2.1 Details of Expired Stone Mining Leases in the District:	19
3 GENERAL PROFILE OF THE DISTRICT.....	68
3.1 Introduction.....	68
3.2 Administrative Setup of District.....	70
3.3 Topography	71
3.4 Demography	72
3.5 Connectivity in Dumka District	75
3.6 Floods in district Dumka.....	77
3.7 Seismicity.....	78
3.8 Flora	79
3.9 Fauna.....	80
3.1 General Landforms.....	82
3.2 Soil and rock pattern.....	82
3.3 Geomorphology.....	84
4 GEOLOGY & MINERAL WEALTH OF THE DISTRICT	88
4.1 Geology.....	88
4.2 Mineral Resources.....	90
5 DRAINAGE SYSTEM & IRRIGATION PATTERN.....	96
5.1 Drainage System.....	96
5.2 Irrigation Pattern.....	97
5.3 Cropping Pattern	99
6 LAND UTILIZATION PATTERN OF THE DISTRICT	100
6.1 Land Utilization Pattern	100
7 GROUND WATER SCENARIO OF THE DISTRICT.....	102
7.1 Hydrogeology	102
7.2 Depth of Water Level	104
7.3 Last ten years long term water level trend (2010-2019)	109
7.4 Ground Water Exploration:.....	109
7.5 Ground Water Quality	111



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



7.6	General range of chemical parameter of Aquifer - II in the area	112
7.7	Aquifer Characteristics.....	112
7.8	Primary Ground water Survey near existing mining site	113
8	RAINFALL AND CLIMATE OF THE DISTRICT	116
8.1	Climate & Rainfall	116
9	DETAILS OF MINING LEASES IN THE DISTRICT	120
10	DETAILS OF ROYALTY OR REVENUE RECEIVED IN LAST THREE YEARS.....	142
11	DETAILS OF PRODUCTION OF MINOR MINERALS IN LAST THREE YEARS	143
12	MINERAL MAP OF THE DISTRICT	144
12.1	Mineral Wealth.....	144
13	LIST OF LETTERS OF INTENT HOLDERS IN THE DISTRICT	148
14	TOTAL MINERAL RESERVE AVAILABLE IN THE DISTRICT	166
15	QUALITY/GRADE OF MINERAL AVAILABLE IN THE DISTRICT	212
16	USE OF MINERAL	216
	China Clay (Kaolinite).....	218
	Uses of Building Stones.....	218
17	DEMAND AND SUPPLY OF THE MINOR MINERAL IN LAST THREE YEARS.....	220
18	MINING LEASES MARKED ON THE MAP OF THE DISTRICT	222
19	DETAILS OF THE AREA OF WHERE THERE IS A CLUSTER OF MINING LEASES VIZ. NUMBER OF MINING LEASES, LOCATION (LATITUDE & LONGITUDE).....	234
20	DETAILS OF ECO-SENSITIVE AREA.....	245
21	IMPACT ON THE ENVIRONMENT DUE TO MINING.....	246
	ENVIRONMENTAL IMPACTS	246
	Air Environment.....	246
	Water Environment	246
	Noise Level.....	247
	Land Environment	247
	Biological Environment.....	248
	Socio-economic Environment.....	249
	Impact on Agriculture	249
22	REMEDIAL MEASURES TO MITIGATE THE IMPACT OF MINING ON THE ENVIRONMENT	250
	ENVIRONMENTAL IMPACTS	250
	Air Environment.....	250
	Water Environment.....	250
	Noise Level.....	251



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



Land Environment	251
Biological Environment	252
Socio-economic Environment	253
Impact on Agriculture	253
23 RECLAMATION OF MINED-OUT AREA.....	254
23.1 Reclamation of Mined out area (best practice already implemented in the district, requirement as per rules and regulation, proposed reclamation plan);	254
23.1.1 Reclamation of mined-out area	254
24 RISK ASSESSMENT & DISASTER MANAGEMENT PLAN	256
25 DETAILS OF THE OCCUPATIONAL HEALTH ISSUES IN THE DISTRICT	263
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)	263
25.1.1 Occupational Health Hazard and Remedial Measures	263
25.1.2 System of Detection of Occupational Diseases in Mines	263
26 PLANTATION AND GREEN BELT DEVELOPMENT	265
26.1 Plantation and Green Belt Development in respect of leases already granted in the district 265	
27 ADDITIONAL INFORMATION	278
27.1 Details of Identified Potential Stone Deposits:	278

List of Tables

Table 2-1: Requirement of District Survey Report & its year wise modification of Guidelines.....	10
Table 4-1:- Projected Population of Dumka, Jharkhand	72
Table 4-2:- Demography Details of Dumka District	73
Table 6-1:- Generalized stratigraphic succession of the district.....	89
Table 7-1:- Details of major rivers of Dumka District.....	97
Table 7-2:- Salient features of important River & Streams.....	97
Table 7-3:- Block wise number of Irrigation Structure of Dumka district (2016-17).....	98
Table 7-4:- Source wise Irrigation data of Dumka district (Area in Hectare).....	98
Table 7-5:- Cropping Pattern of Dumka district (2016-17) (Area in hectare).....	99
Table 8-1:- Land Use Pattern of Dumka District (Figure in Hectare)	100
Table 10-1:- Rainfall data	117
Table 10-2:- Month wise data	118
Table 11-1:- Details of Mining Leases in the District.....	120
Table 12-1:- ROYALTY OR REVENUE RECEIVED.....	142
Table 13-1:- PRODUCTION & DISPATCH	143
Table 15-1:- LIST OF LETTERS OF INTENT	148
Table 16-1:- Existing/ Working Mining Lease Details	167
Table 20-1:- Location of Mining Lease in the Dumka district	222



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



Table 25-1 :- Hazard identification & Risk Analysis in Stone Mining operation 256

List of Figures

Figure 2-1 :- Pictorial description of Land Use Classification methods.....	14
Figure 4-1 :- Location map of Dumka district, Jharkhand.....	69
Figure 4-2 :- Block map of Dumka District, Jharkhand	71
Figure 4-3 :- Topographical Map Dumka District Jharkhand.....	72
Figure 4-4 :- Road Map Dumka District.....	76
Figure 4-5 :- Railway Network Map Dumka District.....	77
Figure 4-6 :- Multi hazard prone area in Jharkhand	78
Figure 4-7 :- Jharkhand Earthquake Map	79
Figure 4-8 :- Forest Cover Map of Jharkhand.....	81
Figure 5-1 :- Topographical Map of Dumka District	82
Figure 5-2 :- Soil Map of Dumka District	84
Figure 5-3 :- Geomorphological Map Dumka District	87
Figure 6-1 :- Geological Map Dumka District Jharkhand	89
Figure 6-2 :- District Resource Map, Dumka, Jharkhand	90
Figure 7-1 :- Drainage map of Dumka district.....	96
Figure 8-1 :- Land use Land Cover Map Dumka District.....	101
Figure 9-1 :- Hydrogeological Map of Dumka District.....	103
Figure 14-1 :- Mineral Map Dumka district.....	147
Figure 16-1 :- Resource Map of Dumka, Jharkhand.....	166
Figure 20-1 :- Location Map Mining Lease in Dumka District	233
Figure 21-1 :- Eco-Sensitive area Map.....	245

List of Annexures

	LIST OF BRICK KILN	
Annexure-I	LIST OF AUCTION STONE BLOCK BY MINES & GEOLOGY	
Annexure-III	SDM COMMITTEE LETTER DUMKA	
Annexure-IV	MAP	
Annexure-V	Screenshot of DSR uploaded on dumka.nic.in portal	
Annexure-VI	Newspaper Advt. Copy	
Annexure-VII	Pollution load of existing mines	
Annexure-VIII	Photographs of plantation	
Annexure-IX	Letter from Civil Surgeon, Dumka for Silicosis & Tuberculosis	
Annexure-X	Geo-hydrological Survey Report	



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



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 15th January 2016. The notification was addressed to bring certain amendments with respect to the EIA notification 2006 and in order to have a better control over the legislation, District level committees have been introduced in the system. As a part of this notification, preparation of District Survey Report has been emphasized. Subsequently, MoEF & CC has published Notification No. - 3611 (E), dated 25th 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 benefited at large.

Dumka District, an administrative district of Jharkhand has its headquarter at Dumka. After formation of new Jharkhand State, Dumka district was further divided and Jamtara Sub-Division was upgraded as a separate district. The district lies between 230 45' to 240 38' (North) Latitude and 860 20' to 870 75' (East) Longitude. The Dumka District is surrounded by following districts of Jharkhand Bihar and West Bengal: -

- 📍 North: Sahibganj, Dumka (Jharkhand) and Banka (Bihar)
- 📍 East: Pakur (Jharkhand) and Burdwan (West Bengal)
- 📍 South: Jamtara (Jharkhand) and Burdwan (West Bengal)
- 📍 West: Deoghar (Jharkhand)

At the top of the hills of “Damin-e-Koh” this area is full of several mountains, rivers and valleys. One can surely appreciate the diverse flora and fauna of this town. This district is very important from the religious point of view. People from different states visit the religious, historical and archaeological place of this district. Baba Basukinath Temple, Maluti Temple etc. find mention in the diaries of all the traditional devotees.

Dumka is predominantly a hilly terrain district with numbers of drainages. Entire district is with high ridges and valleys. Hills are mostly present on the NE, SE and South side of the district. The main drainages of the district are Mayurakshi river, Tepra River, Brahmani River present at the Central part of the district and flowing towards SE direction. So, in this region, it has been noticed that different geomorphic features like Alluvium Plain, Alluvial Fan etc. which are deposited by the active rivers. In this region, there is huge deposition of Sand, Clay and Gravel occurred. So, the Sand mining and Sand industry should be the very useful for this district.

The occurrences 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.



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



1 INTRODUCTION

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

- 1) **Coal:** Coal is a sedimentary deposit that is easily combustible and mostly made of carbon. Coal is a black or brownish-black substance that contains more than 50% by weight and more than 70% by volume of carbonaceous material (including inherent moisture).
Grade: None Coking



DISTRICT MINING OFFICER,
DUMKA

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



Coal Type: Anthracite coal
Uses: Power & Steel Sector.

- 2) **Feldspar:** Feldspar is the name given to a group of naturally occurring aluminosilicate minerals containing varying amounts of potassium, sodium, calcium, and/or lithium. The feldspar group of minerals is by far the most abundant group of minerals in the Earth's crust, making up about 50% of all rocks.
Grade: Refractory.

Uses: Refractory; Glass, Abrasive & Ceramic industry.

- 3) **Quartz:** The most common mineral we have is quartz. Oxygen and silicon, the two most plentiful chemical elements on Earth, are combined to form quartz. Tetrahedrons, or three-sided pyramids, are formed when silicon and oxygen atoms come together. Crystals are created by stacking these. Even a tiny crystal requires billions of tetrahedrons to construct.
Grade: Refractory & Ceramic.

Uses: Refractory, Glass, Watch & Ceramic industry.

- 4) **Ordinary Earth:** Ordinary Earth are a type of building material, Roads and other filling. They are generally used to construct walls, pavements and other types of architecture.

- 5) **Soil:** The soils occurring in different landforms have been characterised during soil resource mapping of the state on 1:250,000 scale (Halder et al. 1996) and three soil orders namely Entisols, Inceptisols and Alfisols were observed in Jamtara district.

- 6) **Granite:** Granite is a coarse-grained intrusive igneous rock composed mostly of quartz, alkali feldspar, and plagioclase. It forms from magma with a high content of silica and alkali metal oxides that slowly cools and solidifies underground.

- 7) **Basalt:** It is an aphanitic (fine-grained) extrusive igneous rock formed from the rapid cooling of low-viscosity lava rich in magnesium and iron (mafic lava) exposed at or very near the surface of a rocky planet or moon. More than 90% of all volcanic rock on Earth is basalt.

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.



DISTRICT MINING OFFICER,
DUMKA
10 | Page

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



Year	Particulars
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 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.



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DUMKA

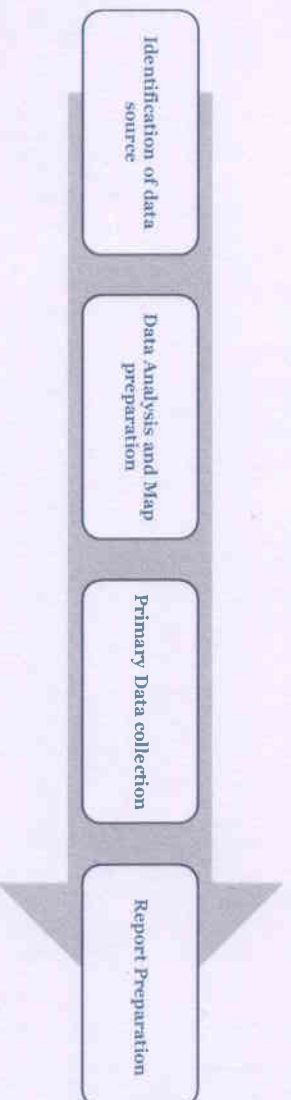
District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Dumka District, Jharkhand.



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.



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.



DISTRICT MINING OFFICER,
DUMKA Page

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





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.

	
<p>Agricultural Land - Based on their Geometrical shape, red and pink colour tone, Agricultural Land has been identified.</p>	<p>Vegetation Covered Area - Based on their continuous red colour tone, Vegetation Covered Area has been identified.</p>



DISTRICT MINING OFFICER,
DUMKA
Page

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





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

Figure 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) 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:



**DISTRICT MINING OFFICER,
DUMKA**

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



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

Drainage Map:

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

Seismic Map:

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

Soil Map:

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

Wildlife Sanctuary and National Park location Map:

- Raw data collected from **ENVIS Centre on Wildlife & Protected Areas.**
- Data has been geo-referenced using GIS software




DISTRICT MINING OFFICER
DUMKA

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



- 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 fulfill 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.




DISTRICT MINING OFFICER,
DUMKA

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



2 OVERVIEW OF MINING ACTIVITY IN THE DISTRICT

Dumka is one of the mineral rich mining districts in the State, with 16 Proposed Coal Mining Blocks. These mines are spread across 165.44 km². of land area and concentrated in Gopikandar, Shikaripara & Kathikund block. All these are proposed coal blocks. Dumka is mainly known for columnar basalt, which make this district special for mining. These rocks are majorly found in following blocks: - Gopikandar, Shikaripara & Kathikund Blocks.

List of Proposed Coal Blocks

Sl. No.	Name Of Coal Block	Area (in square kilometer s)	Circle	Allotted Company
1	Pachewara South Coal Block	6.72	Gopikandar	Naively Lignite Corporation Limited and Utter Pradesh Rajya Vidyut Utpadan Nigam Ltd.
2	Saharpur-Jamrupani Coal Block	15.00	Shikaripara	Utter Pradesh Rajya Vidyut Utpadan Nigam Ltd.
3	Kalyanpur Coal Block	6.12	Shikaripara	Haryana Power Generation Corporation Ltd.
4	Brahmini Patshimla	-	Shikaripara	Eastern Coalfields Ltd.
5	Urmapaharitola Coal Block	9.76	Gopikandar	Aurobindo Realty & Infrastructure Private Limited
6	Mahuagarhi Coal Block	6.16	Kathikund	Unavailable
7	Amrakunda-Murgadangal Coal Block	6.23	Shikaripara	Eastern Coalfields Ltd.



**DISTRICT MINING OFFICER,
DUMKA**

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



8	Salaipahar Coal Block	10.25	Shikaripara	Unavailable
9	Brahmni North Coal Block	17.03137	Shikaripara	Eastern Coalfields Ltd.
10	Brahmni Central Coal Block	23.87	Shikaripara	Eastern Coalfields Ltd.
11	Brahmni South Coal Block	12.03	Shikaripara	Eastern Coalfields Ltd.
12	Haripur Chapuria Coal Block	10.54	Shikaripara	NA
13	Kulkuidangal Coal Block	10.34	Shikaripara	NA
14	Gumrapahari - Sulibona Coal Block	11.80	Shikaripara	NA
15	Pokharia-Paharpur Coal Block	7.86	Shikaripara	NA
16	Kayda-Chodhar Gariyapani Coal Block	11.76	Gopikandar	NA

Source: CMPDIL

- a. Expired Stone Mines (Basalt, Granite Gneiss) that are present in Dumka District are 252 Mines.
- b. Existing Stone Mines (Basalt, Granite Gneiss) that are present in Dumka District are 51 Mines. (Working 28 & Non Working 23)
- c. Existing Earth clay Mines that are present in Dumka District is 1 Mines.
- d. Number of Lease application for Stone Mineral(Granite-Gneiss/Basalt) who have been granted Letter of Intent(LOI) are 76
- e. Number of New Lease Application Received in District Mining Office is 11, number of time barred is 15 and Number of Renewal application received are 3
- f. Number of Stone Mineral Block which have been demarcated by District Geological office Dumka are 13



**DISTRICT MINING OFFICER,
DUMKA**

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



2.1 Details of Expired Stone Mining Leases in the District:

S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
1	M/s Brahmabali Stone Products, Prop.- Mrs. Bulbul Chatterjee, Husband Shri Vibhash Chatterjee, Village Ravindrappali, Post Siuri, Police Station Siuri, District Birbhum (W.B)	Stone	Shikaripada	Sheherbeda	9.47	329, 330, 331, 332, 333, 334, 335, 340, 341, 342, 343, 345, 346 and 348	07/01/2016 to 06/01/2021
2	M/s Shree Shyam Stone Quarry, Prop.- Shri Anil Kumar Singh, Father Shri Anant Singh, Village+Post- Masadha, Police station- Udvantnagar, district- Bhojpur.	Stone	Shikaripada	Shaharpur	9.44	4, 22, 23, 25 and 28	05 Year 09/02/2012 to 08/02/2017
3	M/s Jai Baba Bajrangbali Stone Mill, Prop.-Shri Umesh Bhagat, Fath- Shri Harishankar Bhagat, Village-Nischhintpur (Near Holi Home School) , Post+Police Station- Rampurhat, District- Virbham (W.B.).	Stone	Shikaripada	Shaharpur	3.6	34, 56, 66, 67, 68, 69, 70, 71, 72, 73, 74, and 75	5 Years 24.06.11 to 23.06. 16 to 23.06.21
4	M/s KK Stone, Partner.--Mr. Ravi Kisku, father - Late Bhondar Kisku, Village- Dadpur, Post- Dadpur, Police Station-Rampurhat, District- Virbhum (W.B.) and 2. Mr. Shubhendu Wanerjee, Father-Mr. Amiya Kumar Wanerjee, Village-Nischhintpur, Post-Rampurhat, Police Station-Rampurhat, District Birbhum. (W.B.).	Stone	Shikaripada	Shaharpur	10.606	27/P, 28, 30, 31, 36, 37	16/09/2015 TO 15/09/2020
5	Shri Sandeep Kumar Tiwari, father Shri Rajendra Prasad Tiwari, address Daya Singh Market, Panagarh Market, Post Panagarh, Police Station Kansa, District Vardhaman (W.B.).	Stone	Shikaripada	Shaharpur	7.99	144	06/02/2016 TO 05/02/2021



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
6	M/s Jai Maa Tara Stone Product, Prop.- Shri Vinod Prasad Bhagat, Father Shri Jageshwar Prasad Bhagat, Village+Post Sarasdangal, Police Station-Shikaripada, District-Dumka. Patta transferred Azim Shaikh, father Mahiruddin Shaikh, address- Ward No. 05, Panchayat -Farsa, Police Station-Pakur Motusil, District-Pakur	Stone	Shikaripada	Shaharpur	3.42	6, 7, 24/P	03/10/2016 TO 02/10/2021
7	M/s Sri Sri Stone Products, Partner --1. Islam Miyan, father-Shohrab Miyan, 2. Mr. Sunil Kisku, father-Late Bharan Kisku, both village- Shaharpur, Post- Benagadiya, Police Station-Shikaripara, District-Dumka 3. Rajesh Kumar Bhagat, Father-Mr. Jayanti Prasad Bhagat, Village - Nishchintpur Rampurhat, Post+Police Station - Rampurhat, District- Veerthum (W.B.) and 4, Mohd. Zulfikar Ali, Father - Isa Mian, Village+Post- Pinaragadiya, Police Station-Shikaripada, District-Dumka.	Stone	Shikaripada	Shaharpur	3.13	47, 48, 49, 50, 51, 52, 53, 54, 55, 58, 59, 60, 61, 62, 63, 64, 77, 78, 79, 88, 89, 90, 92	06/02/2016 TO 05/02/2021
8	Shri Santosh Kumar, father-Shri Janardan Prasad Sahr, village+post- Bhadwari, police station - Hansdliha, district- Dumka.	Stone	Shikaripada	Shaharpur	6.56	136, 138, 139, 146, 147, 148, 149	06/02/2016 TO 05/02/2021



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**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
9	M/S Johar Mining, Partner:-1. Mr. Manoj Saav, Father- Vinda Prasad Saav, Address-B.L. No. 13, H.N. 8, Jagdal, Post+Police Station- Jagdal, District-North 24 Parganas (W.B.), 2. Shri Ram Shankar Chaudhary, Father Late Yogendra Chaudhary, Address- 14/28 Arya Samaj Akashrani Road Obra, Post+Police Station- Obra, District Sonbhadra (U.P.) 3. Shri Ashish Kumar Singh, Father-Late Avadh Narayan Singh, Address-Sector 8 Ayyappa Temple, Raj Kumari Nagar, Obra, Post+Police Station- Obra, District-Sonbhadra (U.P.) 4. Dinesh Kumar Madhyayan, Father-Shri Jiyalal Das Madhyayan, Address-Sindhipada, Mission Road, Pakur, Post+Police Station+District-Pakur, and 5. Pawan Lala, father Late Jagdish Lala, Village- Chaldhawanipada Rampurhat, Post Police Station-Rampurhat, District Veerbhurn (W.B.).	Stone	Shikaripada	Shaharpur	4.14	143, 158	29/01/2016 TO 28/01/2021



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
10	M/s Ram Rahim Black Stone Mines, Partner: --Shri Ziaul Haq, Father – Shri Muntaz Mian, Village-Shaharpur, Post- Benagadiya, Police Station-Shikaripada, District- Dumka and 2. Mr. Islam Mian, Father-Mr. Sohrab Mian, Village-Shaharpur, Post- Benagadiya, Place- Shikaripada, District- Dumka.	Stone	Shikaripada	Shaharpur	3.41	10, 11, 12, 13, 14	10/02/2016 TO 09/02/2021
11	M/s Lakshmi Stone Works, Prop.- Shri Anup Kumar Modi, Father-Late Rajendra Prasad Modi. by Sridurga Auto Centre, Gram-Dudhani in front of Hero showroom, Post+Police Station+District-Dumka.	Stone	Shikaripada	Shaharpur	5.68	103/P, 104/P, 105, 106, 108, 109	19/09/2015 TO 18/09/2020
12	M/s Govardhan Stone Works, Prop.- Shri Manoj Kumar Singh, Father-Shri Baldev Singh, Village-Makrain, Post+Police Station- Dalmiannagar, District- Rohtas.	Stone	Shikaripada	Shaharpur	4.47	151, 156, 157	19/09/2015 TO 18/09/2020
13	Mr. Julius Uddin Shaikh, Father Abubkar Siddique, Gram-Bonhat, Post- Khairbana, Location-Rampurhat, District-Birbhum (W.B)	Stone	Shikaripada	Barnasiya	4.1	1826, 1827, 1828, 1829, 1831, 1832, 1834, 1835, 1836, 1837, 1840, 1696, 1699	5 Years 21.04.11 to 24.04.16
14	M/s Anup Nayak & Company, Prop.- Shri Anup Nayak, Father-Shri Subodh Kumar Nayak, Village-P.N. Maliya Road, Shishu Bagan, Post+Police Station-	Stone	Shikaripada	Barnasiya	3	1679, 1680, 1681/P, 1682/P	5 YEARS 17.03.11 TO 16.03.16 Renewal upto 16.03.21



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
	Raniganj, District Bardhaman (W.B.). Mohd. Mubarak Ansari, Father Mohd. Yunus Ansari, Village+Post- Sarasdangal, Police Station Shikaripada, District-Dumka.						
15	Ghaffar Ali, Father-Late Uday Rasul Shaikh, Village+PO- Benagadiya, Police Station-Shikaripada, Dumka.	Stone	Shikaripada	Barnasiya 2	3.9	1647, 1648, 1649, 1850, 1651, and 1652	5 Year 16/04/2008 to 15/04/2013
16	M/s Chhatrapati Stone Works, 1. Shri Sameer Kumar Sah, father Late Lalit P.Sah, address-Bandh Para, Dumka. 2. Abdul Ali Mohammad, father-Alimgir Mandal, Village-Dhurniram, Post- Margram, District- Birhum, 3. Hakeem Shaikh, father-Rafiq Shaikh, 4. Gaffar Sheikh, father- Majal Sheikh, Both of them are Village+P.O.- Baligramrityunjarpur, District Birhum, (W.B.). 5. Shri Subhash Kumar Singh, father-Nand Kishore Singh, address- Bagan Para, Dumka.	Stone	Shikaripada	Benagadiya	3.33	117, 118, 119/P, 120/P	05 year 21/11/2003 to 20/11/2008 ren upto 5 years
17	Mr. Shibu Mirrha, Father- Late Laxman Mirrha, Village+P.O.- Benagadiya, Police Station-Shikaripara, District - Dumka.	Stone	Shikaripada	Benagadiya	7.42	109/part	10 years 04.10.2007 to 03.10.2017
18	Mr. Shibu Mirrha, Father- Late Laxman Mirrha, Village+P.O.- Benagadiya, Police Station-Shikaripara, District - Dumka.	Stone	Shikaripada	Benagadiya	7.42	95, 96, 97, 99, 101, 103, 105, 691 and 692	10 years 10.08.2007 to 09.08.2017



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
19	Part 1. Shri Amresh Kundu, father-Late Sudhir Kumar Kundu, 2. Shri Sumit Keshari, father-Shri Vinod Prasad Keshari, Village of both-Sanghatapada, Post-Station-Rampurhat, District-Veerbhum (W.B.).	Stone	Shikaripada	Benagadiya	2.33	157, 158, 159, and 159/part	5 Year 01.01.10 to 31.12.14
20	Part 1. Mrs. Sanoti Mumnu, husband Mr. Dejan Soren, Village Post Benagadiya, Police Station - Shikaripada, District Dumka. 2. Shri Kamal Mehra, father late Panchanand Mehra, village - Nishatpur Rampurhat, Post Police Station Rampurhat, District Veerbhum (W.B.).	Stone	Shikaripada	Benagadiya	1.76	114, 115,	05 Years 01.01.10 to 31.12.14
21	M/s Nankar Black Stone, Prop. Shri Amal Rai, father Late Vidyaadhar Rai, Village Nishvintpur, Post Police Station-Rampurhat, District Veerbhum (W.B.).	Stone	Shikaripada	Benagadiya	1.37	149, 150 and 151	05 Year 03/02/2012 to 02/02/2017
22	Mrs. Shahana Afroz, husband Sheikh Abdus Salim, village Nishatpur, post police station Rampurhat, district Birbhum (W.B.).	Stone	Shikaripada	Benagadiya	2	01/part,	5 years 23/02/2012 to 22/02/2017
23	Reliance Stone Product, Prop. Shri Tausid Alam, father Mohd. Kashim Sonatarpada, Siuri, Birbhum (W.B.).	Stone	Shikaripada	Katpahari	1.27	895	10 Year 30/01/2006 to 29/01/2016
24	M/s Chinnamasta Stone, Prop. - Mrs. Kalyani Mukherjee, father Late P. N. Mukherjee, Village 8/A Abhilasha Apartment, Ravindranagar, P. O. Asansol, Police Station Hiraipur, District Vardhaman (W.B.).	Stone	Shikaripada	Katpahari	1.27	115, 116, 117, 118, 120, 121, and 122	5 Year 15/05/2008 to 14/05/2013



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
25	M/s MNS Stone Quarry, Partner:--Shri Gautam Mandal, Father Shri Balaknath Mandal, 2. Shri Abhijeet Sarkar, Father Late Surendranath Sarkar, 3. Shri Bhuppan Naskar, Father Shri Prafulla Naskar, 4. Shri Ratikant Mandal, Father Late Gaustavhari, Mandal, Village Kathpahari, P.O Daldali, Police Station - Shikaripada District Dumka.	Stone	Shikaripada	Kathpahari	1.62	896, 899/part, 900/part, and 901/part	5 Year 10/05/2008 to 09/05/2013
26	Part 1. Shri Mithu Mandal, father late Dhruv Padman Mandal, village Sarsajol, post Bakijor, police station Shikaripada, district Dumka. 2. Afzur Rehman, father Yusuf Ali, village Saluka, post Makdoom Nagar, police station Mohd. Bazar, district Birhum (W.B.).	Stone	Shikaripada	Kathpahari	3.26	976, 981, 982, 996, 1002, 1003 and 1004	05 year, 07/11/08 to 06/11/2013
27	Part 1. Kaicer Ali, father Yakub Ali. 2. Mohd. Imran Khan, father late Imam Vax, both of village post Asanbani, police station Raneshwar, district Dumka, and 3. Mr. Milir Kumar Mandal, father late Haripadon Mandal, village Sarsajol, post Bankijor, Police Station Shikaripada, District Dumka	Stone	Shikaripada	Kadarpokh ar	7.16	64, 67, 74, 75, 76, 77, 78 and 79	05 Years 01.02.10 to 31.01.15
28	Mr. Nirmal Kumar Pal, father Mr. Shanti Ram Pal, Village Khairakudi, P.O. Anjotapahari, Police Station Mo. Bazar, District Birhum (W.B.).	Stone	Shikaripada	Kathpahari	2.38	1030, 1031 and 1032	05 Years 22.07.2009 to 21.07.2014



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
29	Shri Amit Kumar Ghosh, father Late Nirmal Kumar Ghosh, Village Mansatala, Post Police Station Sarthiya, District Birbhum (W.B).	Stone	Shikaripada	Katpahari	2.2	1048, 1049, 1055/part, and 1067/part	05 Year 06/03/2012 to 05/03/2017
30	Mohd. Badiuzzaman, father Mohd. Badar Ala Village Deucha, Post Deucha, Police Station Mohd. Bazar, District Birbhum (W.B).	Stone	Shikaripada	Kadarpokhar	2.22	61, 62 and 68	05 Years 15.10.11 to 14.10.16
31	Adhira Trade Pvt. Ltd., Director Mr. Deepak Kumar, Father Mr. Pradeep Kumar Beltharia, Address 18/10 Dyer Lane, Kolkata-29.	Stone	Shikaripada	Kauwamahar	2.85	451, 454/part, 455/part, 458/part	10 Year 06/12/2003 to 05/12/2013
32	Mr. Sarabjit Ram, father Mr. Gyan Chandra Ram, village P.O. Nawadaben, police station Udvantnagar, district Bhojpur Bihar.	Stone	Shikaripada	Kauwamahar	4.02	751, 755, and 756	5 Year 11/03/2008 to 10/03/2013
33	Shri Gagan Kumar Sowlani, Father Shri Mohan Das Sowlani, Village Tollygunge Circular Road, Post Police Station New Alipore, District Kolkata 53	Stone	Shikaripada	Kauwamahar	7.67	288 to 271, 277, 279 and 281	5 years 23.10.09 to 22.10.2014
34	M/s Jai Shri Ram Stone Works, Prop. Shri Nand Kumar, Father Shri Bhagwan, Village 104 Masadh (Rajput Toli), Post Masadh, Police Station Udvantnagar, District - Bhojpur (Bihar).	Stone	Shikaripada	Kauwamahar	2.73	744, 745, and 746	05 Years 01.01.10 to 31.12.14
35	M/s Lal Baba Stone Works, Prop. Divyandu Kumar Rai, Father Late Mahadev Chandra Rai, Address 244 B, Jaigir Ghat Road, 1 No. Vacharpada, Post Thakur Pukur, Thana Thakur Pukur, District	Stone	Shikaripada	Kauwamahar	3.08	209, 210, 229 and 230	05 years 17.06.10 to 16.06.15

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DISTRICT MINING OFFICER,
DUMKA

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
	South 24 Parganas, Kolkata-63, (W.B)						
	Directors Mangal Murthy Minerals Pvt. Ltd. Part-Shri Rajeev Kumar Mundra. Father Shri Raj Kumar Mundra, Village S. S. M. Jalan Road, Deoghar, Post Deoghar, Police Station Deoghar, District-Deoghar, and 2. Shri Utam Kumar Bhukaniya, father Shri Purnushottam Bhukaniya, Village BM Aggarwala Colony, Dhansar, Post-Dhansar, Police Station-Dhansar, District Dhanbad.						
36	M/s R.S.P. Wildcon Pvt. Ltd., Chairman Mr. Rajesh Kumar, Father Mr. Bhagwan Das, Address- 213B Park Street, Kolkata-17(W.B).	Stone	Shikaripada	Kauwamah al	9.33	139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151 and 152	5 years 23.08.10 to 22.08.15
37	Mohd. Abdus Salam Ansari, father Mohd. Ghulam Rasool, Village Kalakata. Post-Pajor, Police Station Rameshwar, District-Dumka.	Stone	Shikaripada	Kauwamah al	6.26	327, 332, 333, 334, and 335	5 Years 08.06.11 to 07.06.16
38	C.T.S Industries Ltd., Director Mr. Ashok Tulsian, Father Mr. Sitaram Tulsian, Address 37 Sexpier Sarani, 3rd Floor, Kolkata-17	Stone	Shikaripada	Kauwamah al	7.66	153, 154, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 179/part, 180/part, 181/part, 182/part, 184/part, 185/part and 186/part.	5 Years 30.01.12 to 29.01.17
39							



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
40	Shri Sunil Soren, father Late Vridhinhath Soren, Village- Kauwamahal, Post-Benagadiya, Police Station- Shikaripada, District Dumka.	Stone	Shikaripada	Kauwamahal	3.09	138/part, and 172	05 Year 23/02/2012 to 24/02/2017
41	M/s Hansda Stone Mines, Prop. Shri Ravinath Hansda, father Late Parmeshwar Hansda, Village Nildaha, Post Laghna, Police Station Mihjan, District Jamtara.	Stone	Shikaripada	Kauwamahal	3.59	753 and 754	16/04/2016 to 15/04/2021
42	Asghar Ali and Samsul Kamal, Village Hajipur, P.O.- Begunis, District Birbhum	Stone	Shikaripada	Kulkulidan gal	1	638, 640, 645	10 Year 15/10/1993 to 14/10/2013
43	M/s A.R. Stone Quarry, Part Mohd. Hasanujman and others, father Late Abdul Shaikh, village Sonatar Pada, police station Siuri, district Vardhaman.	Stone	Shikaripada	Kulkulidan gal	1.17	640/part	10 year 29/01/2004 to 28/01/2014
44	Shri Shyam Murmu, Village Phuldanga, P.O. Shantiniketan, District Birbhum.	Stone	Shikaripada	Kulkulidan gal	2.65	384	10 Year 31/03/2002 to 30/03/2012
45	Jai Dhan Murmu, Father – Late Lakhiram Murmu Village – Kulkulidangal, P.O. Daldali, District Dumka.	Stone	Shikaripada	Kulkulidan gal	2.05	375, 376	10 Year 26/10/1994 to 25/10/2004 ren 25.09.2014
46	Haradhan Manul, father Late Nadiya Bihari Mandal, Village Sarsajol, P.O. Bankijor, District Dumka.	Stone	Shikaripada	Kulkulidan gal	3.48	293 to 296 and 319, 320	28.12.2006 to 27.12.2011
47	Shri Raj Kumar Shirkhel, father Late Leelamoy Shirkhel, address 10 Shirkhel Lane, Post Police Station Bali, District Howrah, (W.B.).	Stone	Shikaripada	Kulkulidan gal	1.74	51, 52, 53	5 year 28.02.09 to 27.02.2014
48	Shri Aseem Kumar Sadhu, father Late Kalipado Sadhu, Village P.O. Makdoomnagar, Police Station Mohd.	Stone	Shikaripada	Kulkulidan gal	1.98	316, 317 and 318	05 Years 22.06.2009 to 21.06.2014



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
	Bazar, District Birbhum (W.B.).						
49	Azad Ali, father Jafar Ali, village Chanda, P.O. Bharkatta, district - Birbhum.	Stone	Shikaripada	Kulkulidan gal	2.47	362/part, 363/part, 364/part	10 Year 03/09/04 to 02/09/14
50	Mr. Anisur Rahman, father Late Abdul Jalil, Village Kapasdanga, Post Bharkatta, Police Station Mohd. Bazar, District Veerthum (W.B.).	Stone	Shikaripada	Kulkulidan gal	5.1	285, 286/fraction, 287/fraction, 288, 289, 290, 323/part, and 324/part	5 Years 19/10/2009 to 18/10/2014
51	Shri Krishna Chandra Mandal, Father Late Shashthidhar Mandal, Village Kapasdangal, Post Bharkatta, Police Station Mau Bazar, District Veerthum (W.B.).	Stone	Shikaripada	Kulkulidan gal	3.12	380, 381, and 382	5 Years 01/01/10 to 31/12/14
52	Shri Chaudhary Abul Basar, father Shri Chaudhary Abul Kalam, Village BDO Officepara, Post Police Station Lavpur, District Birbhum (W.B.).	Stone	Shikaripada	Kulkulidan gal	2.02	12, and 13	5 Years 01/01/2010 to 31/12/2014
53	M/s Eastern Stone Products Part 1 Ayub Hussain Khan, S/o Abdul Rafiq Khan, Village Shastri Nagar, (Near Bandarjodi Wood Dipo) P.O.-Bandarjodi, Dumka. 2. Partner.--Sarwar Ahmed Khan, Father Late Manjar Ahmed Khan, Village Khijuria, Post Bandarjodi. Police station district Dumka.	Stone	Shikaripada	Kulkulidan gal	1	843/part	10 Year 24.11.2005 to 23.11.2015
54	Mr. Ranjit Mandal, father late Nandal Mandal, village Dholkatra, P.O.- Harinasindya, police station - Mohd. Bazar, District Veerthum (W.B.).	Stone	Shikaripada	Kulkulidan gal	3	649 to 654	10 Year 22/06/2006 to 21/08/2016



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
55	Mr. Sanoj Rajak, father Mr. Chhote Lal Rajak, village Mallarpur, post Mallarpur, police station Moreshwar, district Birbhum (W.B.).	Stone	Shikaripada	Kulkulidan gal	1	702, 703, and 704/part	05 Year 06/03/2012 to 05/03/2017
56	Bhai-bhai Stone Quarry, Prop. Mohd. Abdul Haq, father Late Khushumuddin Shaikh, Village Haripur P.O. Jagtai, Police Station Suti, District Murshidabad (W.B.),	Stone	Shikaripada	Kulkulidan gal	1.39	385, and 386/part	10Years 11.03.10 to 10.03.20
57	M/s Kazi & Kazi Stone Mines, Prop. Kazi Forjuddin, father Kazi Abdul Hasan, address J.K. Complex Madrasa Road, Post Thana Siuri, District Birbhum (W.B.)pin 731101.	Stone	Shikaripada	Kulkulidan gal	2.1	585, 586, 587, 588, 589, 591, 592, 593 and 594	5 Years 10.12.10 to 09.12.15 10.12.15 to 09.12.2020
58	Adhira Vyapar Pvt. Ltd., Director Mr. Deepak Kumar, Father Mr. Pradeep Kumar Belharia, Address Police Station 18/10 Dawar Lane, Post Gadhiyahat, Gadhiyahat, District Kolkata 29,		Shikaripada	Manjhladh	2.37	690/part, 692/part, and 693/part	10 years 08.10.2007 to 07.10.2017
59	M/s Kargil Stone Mines, Partner.--Mr. Sunil Tudu, father Mr. Gupin Tunk Village Golpur, Post Tiliachak, Police Station Dumka Mofusil, District Dumka, 2. Mr. Nikudim Manrati, Father Late Kisun Marandi, Village Bhalsungiya, Post Rajdaha, Police Station Kathikund. District Dumka.	Stone	Shikaripada	Manjhladh	2.11	697, 698, and 699	5 Year 18/12/2007 to 17/12/2012
60	Mr. Suresh Kumar Srivastava, Father Late Shivshankar Srivastava, Village Sarasdangal, Post Sarasdangal, Police	Stone	Shikaripada	Manjhladh	2.06	705	5 years 21.06.2008 to 20.06.2013



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
	Station Shikaripada, District Dumka.						
61	M/s Vaishnavi Stone Products, Part 0 Shri Manish Kumar, Father Shri Surendra Dwivedi, Address L.I. C. Colony, Dumka. 2. Shri Abhay Kumar Singh, Father Shri Bhagwati Sharan Singh, Address Devi Mandap Road, Dame Side (Hessel) District Ranchi.	Stone	Shikaripada	Manjhladh	5.48	582 to 586 and 604	5 year 30/12/2008 to 29/12/2013
62	Shri Suresh Prasad Bhagat, father Shri Shiv Pujan Bhagat, village Ganeshpur, post Shikaripara, police station Shikaripara, district Dumka.	Stone	Shikaripada	Manjhladh	8	555, 557, 572/P, 573, 574, 575, 576, and 578/P	05 Years 15.10.11 to 14.10.16
63	Shri Arun Kumar Sah, son of late Balgovind Sah, village Shikaripada, post Shikaripara, police station Shikaripara, district Dumka and 2. Shri Shiv Murnu, father Shri Jhardai Murnu, village Manjhladh, post Manjhladh, police station Shikaripada, district Dumka.	Stone	Shikaripada	Manjhladh	4	1447/part	5 Years 30.01.12 to 29.01.17
64	M/s Srishti Stone Works, Prop. Mrs. Manisha Singh, husband Mr. Dhananjay Singh, Village Shikaripada, Post Vikaripada, Police Station Shikaripada, District Dumka.	Stone	Shikaripada	Manjhladh	2.61	1437, 1438, and 1439	5 Years 30.01.12 to 29.01.17
65	M/s Karni Stone Works, Prop. Shri Manak Chand Maheshwari, Father Late Shyam Sundar Maheshwari, Village Old Police Club Road / Sarai Road, Dumka, Post Police Station District Dumka.	Stone	Shikaripada	Manjhladh	6.87	1157, 1164 and 1185	08/04/2012 to 07/04/2017 Renwal 07.04.2022



**DISTRICT MINING OFFICER,
DUMKA** 31 | Page

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
66	Shri Rasik Hembram, Father Late Suphal Hembram, Village District Jaradih, Post Gando, Police Station-Dumka Mofusil, Dumka.	Stone	Shikaripada	Manjhladhi	5	523 and 524	18/01/2016 to 17/01/2021
67	M/s Srishti Stone Works Part-3. Part 0 Mrs. Manisha Singh, husband Mr. Dhananjay Singh, Village Post Police Station Shikaripada, District- Dumka and 2. Mr. Vinod Prasad Bhagat. Father Shri Jageshwar Prasad Bhagat, village Sarasdangal, post-station Shikaripada, district Dumka.	Stone	Shikaripada	Manjhladhi	5	1377, 1420/part, and 1421/part	03.01.2017 to 02.01.2022
68	Shri Ramesh Kumar Jhunjhunwala, father Shri Keshar Prasad Jhunjhunwala, Mohalla Babupada, PO+Thana+District Dumka.	Stone	Shikaripada	Makrapahari	5.33	954, 955, 9586, 957, 960	05 Year 09/08/2002 to 08/08/2007 renewal upto 08.08.2012
69	1. Shri Manoj Kumar Bhagat, father Shri Mohanlal Bhagat. 2. Shri Rajesh Prasad Bhagat, father Shri Dashrath Bhagat. 3. Shri Nayan Kumar Das, father Shri Sadhu Charan Das and 4. Shri Manoj Kumar Bhagat, father Shri Jageshwar Prasad Bhagat. All addresses are Village P.O Police Station Shikaripada District Sarasdangal, Dumka.	Stone	Shikaripada	Makrapahari	4.2	974, 978, 979/part, 980, 981	05 Year 16/12/2002 to 15/12/2007 renewal upto 15.12.2012
70	Shri Ramroop Bhagat, father Late Vaidyanath Bhagat. 2. Shri Gauri Shankar Bhagat, address of both is Village + P.O Police Station Kathikunth, Dumka.	Stone	Shikaripada	Makrapahari	3.42	958, 972/part, and 977	05 Year 27/11/2001 to 26/11/2006 renewal up to 26.11.2011



**DISTRICT MINING OFFICER
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
71	Shri Khurshid Alam, father Khuda Nawaz, village Nishapur, P.O + Police Station Rampurhat, District Birbhumi.	Stone	Shikaripada	Makrapaha ri	3.24	997, 998, 1003, 1005	Renewal pending 10 Year 12/09/2003 to 11/09/2008 renewal upto 11/09/2013
72	M/s Shivam Stone Works, Part 0 Mr. Manish Kumar and other Father - Mr. Surendra Dwivedi. Village Paraiyan, P.O. Bajrampur, Police Station Vikram, District Patna.	Stone	Shikaripada	Makrapaha ri	2.2	1028/part	10 Year 21/11/2003 to 20/11/2013
73	M/s Rohani Stone Quarry, Part 0 Mumtaz Ansari, and others, Village PO Sarasdangal, Police Station Shikaripada, Dumka.	Stone	Shikaripada	Makrapaha ri	4.07	963 and 964	05 Year 10/12/2001 to 09/12/2006 renewal upto 09.12.2016
74	Shri Dharamveer Singh, father Shri Janardhan Prasad Singh, village Lakdaphari. Police station Jama, district Dumka.	Stone	Shikaripada	Makrapaha ri	1.64	1023/part	10 Year 27/05/2004 to 26/05/2014
75	Shri Sujit Kumar, father Shri Chandra Shekhar Kuwar, village P.O. Nonihat, Dumka.	Stone	Shikaripada	Makrapaha ri	5.15	763, 765, 767, to 770	10 Year 16/06/2004 to 15/06/2014
76	M/s Jai Gurudev Stone Mines, Prop. Shri Rakesh Kumar Singh, father Shri Surendra Singh, village police station Shikaripada, Dumka.	Stone	Shikaripada	Makrapaha ri	5.69	999, 1016	10 Year 19/02/2004 to 18/02/2014
77	Shri Shyam Sunder Saav, father Shri Radhanath Saav, village Rajbandh Palasi, police station Shikaripada, district Dumka.	Stone	Shikaripada	Makrapaha ri	1.94	959	10 Year 15.11.2003 to 14.11.2013



DISTRICT MINING OFFICER
DUMKA
Page

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
78	M/s Rohani Stone Quarry, Part 0 Mumtaz Ansari, father Yunus Ansari, Village P.O. Sarsdangal, 2. Shri Rannarayan Bhagat, father Shri Bhola Bhagat, Village Post Shikaripara, Both Police Station Shikaripara, Dumka.	Stone	Shikaripada	Makrapaha ri	4	962	05 Year 08/01/2008 to 07/01/2013
79	Mrs. Satyabhama Devi, husband Late Jai Krishna Prasad Singh, Village Chunher, P.O. Soni, District Jammu, (Bihar). Hall Location Village Ganeshpur, Police Station Shikaripada, District Dumka.	Stone	Shikaripada	Makrapaha ri	5.43	1020/part, 1021 and 1024	5 Year 28/03/2008 to 27/03/2013
80	Mohd. Barjahan Ansari, father Mohd. Idrish Ansari, village PO Sarsdangal, police station Shikaripada, district Dumka.	Stone	Shikaripada	Makrapaha ri	2.48	949/P, 950 to 93	5 Year 28/03/2008 to 27/03/2013
81	M/s Maa Tara Stone Works, Smt. Motiraj Devi, Prop. Pati Shri F. Ram, Kanheri Hills Road, PS District Hazariabaql.	Stone	Shikaripada	Makrapaha ri	2.85	1020/part northern part and 1036/part northern part	5 Year 14/07/2008 to 13/07/2013
82	M/s Tudu Stone Works, Prop. Patras Tudu, S/o. Kanhau Tung, Village Kalyanpur, P.O. Lakhipur, Thana Ranga, District Sahebgani.	Stone	Shikaripada	Makrapaha ri	3.66	991, 993, 994, and 995	5 Year 15/08/08 to 14/08/2013
83	Shri Pratyughar Jha, father Shri Vidhadhar Jha, Village Hijla Road, Dangalpada, Post Police Station District Dumka.	Stone	Shikaripada	Makrapaha ri	3.9	775, 776 and 777	5 Years 06.10.10 to 05.10.15
84	Shri Shiv Charan Tudu Village Police Station Bhatar, District Father Shri Badar Tung Kosigram, Post Shamanvogram, Vardhaman (W.B).	Stone	Shikaripada	Makrapaha ri	2.31	745/P, 746/P and 747	5 Years 10.12.10 10 09.12.15



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
85	M/s Vishwakarma Stone Works, Prop. Shri Charan Lohar, father-shri Shibu Lohar, Village Makrapahari, Post Police Station Shikaripada, District Saradangal, Dumka.	Stone	Shikaripada	Makrapahari	1.32	990/P	5 Years 30.01.12 to 29.01.17
86	Shri Dharamveer Singh, father Shri Janardhan Prasad Singh, village Lakdapahari, police station Jama, district Dumka.	Stone	Shikaripada	Makrapahari	3.41	1023/part and 1025/part	5 Year 08/01/2008 to 07/01/2013 Renew up to 07.01.2018 to 06.01.18
87	M/s Vishwakarma Stone Works. Prop. Shri Sanatan Soren, Pila Late Buddhan Soren, Village Makrapahari, Pa. Saradangal, Police Station Shikaripada, Dumka.	Stone	Shikaripada	Makrapahari	2.96	989	10 Year 31/03/2006 the 30/03/2016 Renewal 31.03.16 to 30.03.2021
88	Shri Nirml Marandi, father late Chhotu Marandi, village Makrapahari, post Saradangal, police station Shikaripada, district Dumka.	Stone	Shikaripada	Makrapahari	3.37	999/part, and 1016	18/01/2016 to 17/01/2021
89	M/s Maa Vaishno Devi Stone Works, Shri Manik Chandra Maheshwari, Father- Late Shyam Sundar Maheshwari,Address District School Road, Dumka.	Stone	Shikaripada	Makrapahari and Janrupani	3.2	1035 and 68, 69	10 year 01/08/2006 to 31/07/2016 to 31.07.21
90	Sarvashree Ram Janaki Minerals and Construction Pvt. Ltd. Director Mr. Deepak Kumar, Father Mr. Sadanaand Prasad Singh, Address 303 Shriram Regency Apartment 2. Bardhaman Compound, Lalpur, Ranchi.	Stone	Shikaripada	Sialpahari	10.38	01/P, 03/part, 06/part, 07/P, 08 and 09	05 Years 23.01.10 to 22.01.15



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
91	M/s Unicorn Trading & Company, Prop. Shri Dilip Kundu, Father Shri Prafullio Kundu, Address P-411/23A, Hemanta Mukherjee, Sarani Kolkata-700291	Stone	Shikaripada	Sialpahari	8.21	50, 51, 52, 53, 97 and 99	05 years 19.02.10 to 18.02.15
92	S.E.W. Infrastructure Limited, 6-3-871, Snehlata Green Land Road, Bagumpet, Hyderabad, (Andhra Pradesh) 500018 Present Address 2nd Floor, Yuva Kalyan Bhawan, 8 (1/4), L.K. Mishra Road, Krishnanagar, District Nadia, (W.B.) 741101, Authorized Representative Managing Director, Mr. Gangadhar P.B.P., Father Mr. S.S. Potkuchi, Flat No. 308, Jagbir Bheji, Gardens, Bhanunagar, Visakhapatnam (Andhra Pradesh)	Stone	Shikaripada	Sialpahari	11.02	28, 29, 30, 31, 32, 34, 35, and 36	05 Years 12.11.11 to 11.11.16
93	M/s Balaji Infratech & Construction Pvt. Ltd., Executive Director Mr. Rajesh Gadia, Father Late Arvind Kumar Gadia, Address 401-406, Samrudhi Commercial Complex, Behind Magnus Tower, Chinchohi Bunder Road, Extension Malad (West) Mumbai-400064.	Stone	Shikaripada	Sialpahari	9.84	125, 126, 127, 130 and 131	05 Years 12.11.11 to 11.11.16
94	Shri Malay Ghosh, father Shri Durgapad Ghosh, alias Durga Charan, village-Maluti, post-Maluti, police station-Shikaripada, district-Dumka. Lease transferred to Amjad Ali, Father-Late Akar Ali, Village-Sudipur, Post+Police Station-Rampurhat.	Stone	Shikaripada	Sialpahari	3.81	86, 112, 113, 114, 115/part, 116, 117, 118 and 119	5 years 23.08.10 to 22.08.15 23.08.15 to 22.08.2020




District Mining Officer | Page

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
	District Veerbhum (W.B.), M/S S. N.S. Enterprise, Part I. Nav Kumar Mandal, father Late Kandarjal Mandal, Village Arvind Palli, P.O. Police Station Stidi, District Birbhum (W.B) 2. Shri Shankar Prasanna Choudhary, Father Shri Girja Prasanna Choudhary, Village Nayakpada, P.O. Police Station Bolpur, District Birbhum. (W.B.) 3. Shri Varun Kumar Laha, father Shri Murari Mohan Laha, Goyldang, Bannovogram, Village Police Station Ayush, District Vardhaman (W.B.) 4. Shri Chandan Rai, father village P.O. Katanga, police station Late Tarashankar Rai, Siuri, District Birbhum (W.B.)	Stone	Shikaripada	Shikaripada	15.14	345, 347, to 365, 406 and 413	05 Years 20.06.2009 to 19.06.2014
96	M/s B.B. Stone Quarry, Partner:--Mr. Varun Kumar Laha, father Mr. Murari Mohan Laha, Village Goyaladanga, Post Police Station Ayushgram, District Bannabogram, Vardhaman (W.B) and 2. Mr. Chandan Rai, Father- Late Tarashankar Rai, Village Post Katanga Police Station -Siuri., District Birbhum (W.B.).	Stone	Shikaripada	Siulibona	5.73	408, 409 and 410	5 Years 04.03.11 to 03.03.16
97	Shri Azad Ali, father Late Jafar Ali. Village Kapsadanga, Post Bharkatta, Police Station-Mo.Bazar, District- Virbhum (W.B.).	Stone	Shikaripada	Siulibona	4.6	587, 598, 599 and 603	22/01/2016 to 21/01/2021



37 | Page
DISTRICT MINING OFFICER
DUMKA

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
98	M/s Siulibona Stone Mines, Prop. Shri Azad Ali, Father Late Jafar Ali, Village Kapasdanga, Post Bharkatta, Police Station Mohd. Bazar, District Birbhoom (W.B.)	Stone	Shikaripada	Siulibona	3.77	518, 520, 521, 522/part, 523/part, 524/part, 525/part, 550/part, 552/part, and 555/part.	08.03.17 to 07.03.2022
99	Mohd. Shayid Siraj, father late Mohd. Yashin, village Bazarpada (Dhobapara), post Rampurhat, police station Rampurhat, district Birbhoom (W.B.)	Stone	Shikaripada	Chitragadiy a	2.56	1654, 1655, 1656	10 year 03/09/2003 to 02/09/2013
100	Shri Robin Hansda, father Shri Nelin Hansda, village Tunwani Ramukrishna Shakirpeeth, police station Rampurhat, district Birbhoom (W.B.)	Stone	Shikaripada	Chitragadiy a	2.8	871/part, 1680/part, 1679/part, 1681/part, 1682/part, 1683/part,	10 year 03/12/2003 to 02/12/2013
101	Concrete Black Stone, Partner.--Hasil Ali and others, S/o Kadam Rasool, Benagadiya, Dumka.	Stone	Shikaripada	Chitragadiy a	2.4	841, 1675 to 1679, 1680/P, 1681/P, 1682/P, 1683/P to 1685	10 year 28/07/2004 to 27/07/2014
102	Shri Vijay Kumar Goswami, father Tribhuvan Kumar Goswami, village Chitragadia, P.O. Benagadia, District - Dumka.	Stone	Shikaripada	Chitragadiy a	2.21	930, to 932, 940 to 944, 954 to 962, 964, 965	10 Year 27/05/2004 to 23/05/2014
103	Sarvashree Dadabhai Black Stein Kyari, Partner.--Shri Bhagat Mumu and Muskara Bibi, Village Hasnapathar, P.O.-Benagadiya, District - Dumka.	Stone	Shikaripada	Chitragadiy a	3	805 to 830, 832, 834, to 836	10 Year 29/12/2004 to 28/12/2014
104	Shri Naresh Chandra Dutta, father Shri Nikhil Chandra Dutta, village Nishatpur, Rampurhat, district Birbhoom.	Stone	Shikaripada	Chitragadiy a	5.24	1344, 1334, 1359, 1350 1351, 1371	10 Year 28/10/2005 to 27/10/2015



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
105	Sarvshree Milan Stone Works, Prop. Shri Abhiruzzaman, father Anisur Rahman, Village Ballia Mrityujyapur, P.O. Rampurhat, Birbhum.	Stone	Shikaripada	Chitragadiy a	2.52	1847 and 1650	10 Year 01/08/2006 to 31/07/2016
106	Shri Kamla Bauri, father late Rasu Bauri, village Ghatharipur, P.O. Sarasdangal, police station Shikaripada, Dumka.	Stone	Shikaripada	Chitragadiy a	4.8	790, 791, 792, 793, 801 and 803	11 Year 01/08/2006 to 31/07/2016
107	M/s Maa Maulikha Stone Mines, Prop-. Shri Sitaran Soren, Father Late Khudhu Soren, Village Chishragadiya, P.O. Benagadiya, Police Station Shikaripada, District Dumka.	Stone	Shikaripada	Chitragadiy a	0.95	1009, 1010, 1011, 1012, 1014, and 1016	5 Year 14/02/2008 to 13/02/2013
108	M/s Baba Basukinath Stone Works, Prop. Shri Rama Prasad Bhagat, Father Late Sukhdev Bhagat, Village Kauvamahal, P.O. Benagadiya, Police Station Shikaripada, District Dumka.	Stone	Shikaripada	Chitragadiy a	2.06	55/part	5 Year 11/03/2008 to 10/03/2013
109	Tahir Mian, father Babu Mian, village Chitragadia, post Benagadia, police station Shikaripada, district Dumka.	Stone	Shikaripada	Chitragadiy a	2.43	1266, 1279, 1280, and 1281	5 Year 16/04/2008 to 15/04/2013
110	M/s Baijang Stone Mines, Part 0 Shri Buddhin Murnu, Father Shri Som Murnu 2, Shri Madhu Tudu, Father 20 Durga Tudu, Address of both is Village Chitragadia, P.O. Benagadia, Police Station Shikaripada, District - Dumka. 3. Shri Deepak Kumar, Father Shri Virendra Singh Village Chandramanipada Pallavi Road, Post+Police Station	Stone	Shikaripada	Chitragadiy a	3.42	763, 767, 768 and 771	5 years 20.06.2008 to 19.06.2013



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
	Rampurhat, District Birbhumi.						
111	M/s Tudu Stone Unit, Prop. - Shri Budan Tudu, Late Late Anil Tudu, Village Chitragadia, Post Benagadia, Thana Shikaripada, District Dumka.	Stone	Shikaripada	Chitragadiy a	1.22	752, 753, 755, 756, 759, to 761	5 Year 19/02/2009 to 18/02/2014
112	M/s.Soren Epili Stone Vaktan, Prop. Shri Alok Kumar Soren, father of Shri Nalin Soren, Village Shivalla, Post Thana Kathikund, District- Dumka.	Stone	Shikaripada	Chitragadiy a	3.34	312 to 314	05 Years 20.06.2009 to 19.06.2014
113	Mr. Rajesh Hembram, Father Late Ramsai Hembram, Village Pakdaha, P.O. Pakdaha, Police Station Shikaripada, District Dumka.	Stone	Shikaripada	Chitragadiy a	1.65	1640	5 Years 03.09.2009 02.09.2014
114	Shri Jagann Kisku, father Shri Jairam Kisku, village Chitragadiya, post Benagadiya, police station Shikaripada, district Dumka.	Stone	Shikaripada	Chitragadiy a	1.16	842, 843, and 844	5 Years 09.09.09 to 08.09.14
115	Mr. Manoj Kumar, father Mr. Lavleen Singh, village post Devon Fatehpur, police station Khinjarsarai, District Gaya (Bihar).	Stone	Shikaripada	Chitragadiy a	5.51	1505, 1506, 1518, 1519, 1520, 1521, and 1523	05 Years 01.01.10 to 31.12.14
116	M/s Super Black Stone Works, Prop. Mainul Islam, father Mohd. Maniruddin Village Kauwamahal, Post Benagadiya, Police Station Shikaripada, District Dumka.	Stone	Shikaripada	Chitragadiy a	6.16	1213, to 1218, 1223 to 1226, 1228 to 1233, 1235, 1236, 1238, 1288 to 1290, 1295 to 1297, 1299, 1301 to 1304, 1307 to 1309, 1313 to 1316.	05 Years 01.02.10 to 31.01.15



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
117	M/s Maa Durga Black Stone, Part 1. Mr. Vijay Bhagat, father Late Harek Chandra Bhagat, Village Fatehpur, Post Police Station Moreswar, District-Veerbhun (W.B) 2. Mr. Pulak Mandal, Father Mallarpur, Late Krishketu Mandal, Village Post Ganpur, Police Station Mohd. Bazar, District Veerbhun (W.B), 3. Shri Narayan Mandal, father late Dwarikanath Mandal, village post Akhira, police station district Birbhun (W.B), and Rampurhat, 4. Shri Vishnu Ghosh, father Shri Dudhadev Ghosh, village Fatehpur, post police station Moreswar, district Mallarpur, Birbhun (W.B.)	Stone	Shikaripada	Chitragadiy a	2	57 and 58	05 years 11.03.10 to 10.03.15
118	M/s Murnu Stone Works, Part-1. Shri Sanjay Kumar Murnu, Father Shri Chudka Murnu, Village Durgapur, P.O. Barnasia, Police Station - Shikaripad, District Dumka	Stone	Shikaripada	Chitragadiy a	2.95	1643/1645 and 1645/1645	5 years 04.05.10 to 03.05.15
119	CTS Industries Ltd., Director Mr. Ashok Tulsian, Father Mr. Sitaram Tulsian, Address 37 Sexpier Sarani, 3rd Floor, Kolkata 17	Stone	Shikaripada	Chitragadiy a	3.7	1471, 1472, 1473, 1474, 1475, 1478, 1479, 1480, 1481, 1483, 1484, 1485, 1486, 1487, 1488, 1489, 1490, 1491, 1492, 1493, 1494, 1495, 1496, 1497, 1498, 1499,	5 Years 06.10.10 to 05.10.15



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
						1500 and 1501	
120	Shri Balram Singal, father Shri Raghuvir Das Singal, Village Sarvogali No. 03, Assam, Post Sarvetelala, Police Station Ichigaon, District-Guwahati.	Stone	Shikaripada	Chitragadiy ^a	5.08	988, 990, 991, 992, 995, 999, 1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1018, 1019, and 1021	05 Years 24.08.11 to 23.08.16
121	Shri Bablu Marandi, father Shri Nath Marandi, village Kendrapahari, post Kajladaha, police station Shikaripada, district Dumka.	Stone	Shikaripada	Chitragadiy ^a	1.24	125, 126 and 128	12/10/2010 to 11/10/2015
122	Shri Anil Kumar Gupta, father Late Yugal Kishore Gupta, Village P.O.- Rampurhat, Birthum.	Stone	Shikaripada	Chitragadiy ^a	4.73	866 to 877, 879, 890, 891, 997, 998	10 year 01/08/2001 to 01/08/2008 renewal 31/07/2016
123	Shri Anil Kumar Gupta, Father Late Yugal Kishore Gupta, Village Rampurhat, Post Rampurhat, Police Station Rampurhat, District Birthum (W.B.)	Stone	Shikaripada	Chitragadiy ^a	0.71	851, 852, 853, 854, 855, 856, 857, 858, 859, and 860	5 Years 08.06.11 to 07.06.16
124	Shri Anil Kumar Gupta, Father Late Yugal Kishore Gupta, Village Rampurhat, Post Rampurhat, Police Station Rampurhat, District Birthum (W.B.)	Stone	Shikaripada	Chitragadiy ^a	1.2	893, 894, 895, 896, 897, 898, 899, 900, 901, and 902	5 Years 08.06.11 to 07.06.16
125	Kaushalya Estate Private Limited, Prop.-Shri Chandan Kumar, Father Late Ramnandan Singh, Address 1.-Bandar Bagicha, Dak Bungalow Chowk, Police Station- Patna Kotwali, District- Patna 01. Address 2. Hanuman Nagar Near T.B. Tower,	Stone	Shikaripada	Chitragadiy ^a	5.8	1590, 1593, 1599, 1602/P, 1606, 1607, 1611, 1620/P, 1621, 1622, 1623, 1824, 1825, 1826, 1627/P, 1628/P, 1631/P and 632/P	5 Years 04.07.11 to 03.07.16



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
	Gandhinagar, Dist.Patna-20						
126	Shri Bhim Goswami Father Shri Tribhuvan Goswami, Village Chitragadiya, Post Benagadiya, Police Station Shikaripada, District-Dumka	Stone	Shikaripada	Chitragadiy a	2.15	122, 124, 130, 131, 132, 133, 134, 141/P and 142	5 Years 28.02.11 to 27.02.16 Ren 27.02.21
127	M/s Siddho Kanh Stone Mines, Part 1. Shri Roshan Hembram, father Shri Gungra Hembram alias Kishnu Hembram, village - Chitragadiya, post police station Shikaripada, district Dumka and Benagadiya, 2. Shri Umrat Shaikh, father - Late Ektar Hussain, village Bonhat, post Khairbana, police station Rampurhat, district. Veerthum (W.B.).	Stone	Shikaripada	Chitragadiy a	3.69	1313, 1315, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329 and 1330	5 Years 01.12.10 to 30.11.15 renewal 30.11.2020
128	Shri Devvrat Tiwari, father Shri Madan Tiwari, village Nischintpur Dighipar Dattohari, post Rampurhat, police station Rampurhat, district Birbhum (W.B.).	Stone	Shikaripada	Chitragadiy a	3.37	1194, 1195, 1196, 1197, 1199, 1200, 1201, 1202, 1203, 1204, 1243, 1244, and 1245	15/01/2016 to 14/01/2021
129	Mr. Anil Kumar Gupta, Father Late Yugal Kishore Gupta, Village Rampurhat, Post Rampurhat, Police Station Rampurhat, District Birbhum (W.B)	Stone	Shikaripada	Chitragadiy a	2.23	878, 880, 881, 882, 883, 884, 886, 887, 888, 889 and 996	5 Years 08.06.11 to 07.06. 16 Ren up to 07.06.2021
130	Haidaveullah Sheikh, father late Sadrullah Sheikh, village Mriyunjapur, post Narayampur, police station Rampurhat, district Birbhum (W.B)	Stone	Shikaripada	Chitragadiy a	1.22	1648	05 Years 24.08.11 to 23.08.16



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
131	M/s C.T.S. Industries Limited, Director Mr. Ashok Kumar Tulsian, Father Mr. Sitaram Tulsian Address 37 Sexpter Sarani, 3rd Floor Kolkata-700017 (W.B.)	Stone	Shikaripada	Chitragadia and Baransia	5.36	Plot No. 1636, 1637, 1638, 1639/part of Mauza Chitragadia and Plot No. 1822, 1823 of Mauza Barmasia.	23.01.17 to 22.01.2022
132	Mr. Dinesh Salui, Father Late Saachinandan Salui, Village Ballia, Post Ballia Mityunjaypur. Police station Rampurhat, district Veerthum (W.B.)	Stone	Shikaripada	Chitragadiya and Chirapathar	5.4	1699 to 1716, 80 and 81	05 years 11.03.10 to 10.03.15
133	Mrs. Avigail Murnu, husband Mr. Masih Soren, village Champanager, address Grant Estate, Dumka, Police Station P.O. District- Dumka.	Stone	Shikaripada	Chirapathar	1.87	319, 331 to 337 to 340, 343 to 344	10 Year 31/03/2006 to the 30/03/2016
134	Shri Sunil Hembram, Father Shri Bambas Hembram, Village Haripur Post Kalajhar Police Station Kathikund, District Dumka.	Stone	Shikaripada	Chirapathar	1.65	136/P, 137/P, 143, 144, 145, 146/P, 167, 168, 169, 170, 171, 172, 173, 174, 175/P, 179, 180 and 181	05 Year 03/02/2012 to 02/02/2017
135	Mrs. Durga Singh, husband Mr. Sitaram Singh, Rampurhat, Birhum.	Stone	Shikaripada	Haripur	1.5	478/part, 479	10 Years 03.09.2005 to 02.09.2015
136	Shri Upendra Singh, and 2 Shri Rajendra Singh, Father of both -Shri Sita Ram Singh, village Nishchitpur, post police station-Rampurhat, district Birhum (W.B).	Stone	Shikaripada	Haripur	1.59	327, 328, 329, 330 and 331	10 Years 08.02.2006 to 09.02.2016



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
137	Shri Praveen Dhananayan, father-Shri Mahavir Prasad Dhananayan, Address- 114/1A, Carton Street,Kolkata 700007 (W.B.) 2. Mr. Mainul Islam, father Late Mohd. Maniruddin, Village Kaanmahal, Post- Benagadiya, Police Station Shikaripada, District Dumka.	Stone	Shikaripada	Haripur	2.64	472/part, 480/part, and 482/part	5 Years 04.02.11 to 03.02.16
138	Mr. Ankit Dhananiya, Father Mr. Praveen Dhananiya, Address 114/1A, Carton Street Kolkata - 700007 (P.30), M/s Om Stone Works, Partner --Mr. Satyendra Singh S/o Mr. Raj Kumar Singh, Address-A' Block, 11 Kings Road, Howrah 711101 (W.B.), 2. Mr. Devanand, S/o Late Karauli Mal, Village Sindhipara, Post Sindhipara, Police Station Pakur, Dist. Pakur and 3. Shri Vimalendra Kumar, Father- Shri Fuldev Prasad Singh, Village Rajapada Kalibari Road, Post Pakur, Police Station Pakur, District Pakur.	Stone	Shikaripada	Haripur	2.47	468, 474, 475, 476 and 477	5 Years 04.05.11 to 03.05.16
139	Shri Sammi Dhanayan, Father Shri Mahavir Prasad Dhananayan, Address-114/1A, Carton Street Kolkata-700007 (W.B) and CD-4, Salt Lake, Sector-1, Block CD, Vidhan Nagar (North), North 24 Parganas-700064 (W.B).	Stone	Shikaripada	Hathbadi	7.68	1. 2, 3, 6, 7, 8, 9, 10, 11, 12, 13, 18, 20, 22, 23, 24, 25, 26, 27, 28, 30, 31, 32, 35, and 36	05 years 08.08.10 to 07.06.15
140	Shri Sammi Dhanayan, Father Shri Mahavir Prasad Dhananayan, Address-114/1A, Carton Street Kolkata-700007 (W.B) and CD-4, Salt Lake, Sector-1, Block CD, Vidhan Nagar (North), North 24 Parganas-700064 (W.B).	Stone	Shikaripada	Hathbadi	4.28	224, 225, 227, 228, 229, 230, 231, 232, 251, 252, 253, 254, 255, 256, 257, 259, 260, 261, 263, 266, 267, 288, 282, and 283.	05 years 23.02.12 to 22.02.17



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
141	Shri Rasik Chandra Murmu, father Late Dhanu Murmu, Village Hulasdangal, Post Pakdaha, Police Station Shikaripada, District Dumka.	Stone	Shikaripada	Hulasdangal	0.65	116 and 119	10.12.10 to 09.12.15 10.12.15 to 09.12.2020
142	Maa Tara Industrial Swavalambi Co- Operative Society Ltd., Pakdaha, Secretary Shri Anand Ravidas, father Shri Santlal Ravidas, village Pakwaha, post Pakdaha, police station Shikaripada, district Dumka.	Sandstone	Shikaripada	Pakdaha	2	860/part	5 Years 14.02.2008 to 13.02.2013
143	Mahila Anupam Self Help Group, Secretary-Mrs. Kalmati Murmu, husband Mr. Bada Gopin Hembram, Village Pakdaha, Post Pakdaha, Police Station Shikaripada, District Dumka.	Sandstone	Shikaripada	Pakdaha	1	860/part	Renewal 05 Years 22.07.14 to 21.07.2019
144	Part 1. Shri Saroj Kumar Bhagat, father Shri Mohan Lal Bhagat. Village Sarasdangal, Post Sarasdangal, Police Station Shikaripada. District Dumka and 2. Shri Nayan Kumar Das, father Shri Sadhu Charan Das, Village Sarasdangal, Post Sarasdangal, Police Station Shikaripada. District Dumka.	Stone	Shikaripada	Paharpur	6.77	1084, 1085, 1086, 1089, 1090, 1091, 1092 and 1093	15/01/2016 on 14/01/2021
145	MD Material Mines Pvt. Ltd., Director Shri Partha De, Father Shri Nimal Chandra De, Address H.A-197, Salt Lake City, Sector-III Kolkata- 97(W.B)	Stone	Shikaripada	Paudabasuri	11.08	873, 874, 882, 884, 887, 888 and 894	5 Years 19.12.10 to 18.12.15



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
146	M/s Kadarina Stone Product, Prop. Aitalim Shaikh, father Late Velat Shaikh, Village P.O. Margram, District- Virbhum (W.B.).	Stone	Shikaripada	Paudavasaria	2.35	958, 959 and 960	05 Years 03.08.2009 to 04.08.2014
147	Ambe Minerals and Metal, Part 1. Shri Raj Kumar Chaudhary, father Late Mahavir Chaudhary, 2. Shri Jagdeep Nevaita, father Late Durga Prasad Nevaita, and 3. Shri Anand Dwivedi, father Shri Ramdev Dwivedi, address of all three (2nd floor) HO-9, JL Church Complex, Eastern Block, Main Road, Ranchi-1.	Stone	Shikaripada	Paudavasaria	5.03	342, 343, 358, 359, 360, 361, 362 and 363.	5 Years 09.01.12 to 08.01.17
148	Ms. Mairi Mumnu, Father - Shri Bulai Mumnu Village Vishundih, P.O.- Haripur, Police Station Rameshwar, District Dumka.	Stone	Shikaripada	Ramzamm	3.02	276 and 277	5 Year 05/11/2007 to 04/11/2012
149	Mohd. Ghulam Kloriya Mallik, father Mohd. Nazir Hussain Mallik, Village P.O. Bharkatta Police Station Mohd. Bazaar. District Birbhum (W.B.)	Stone	Shikaripada	Ramzamm	2.22	942, 944 and 945	05 Years 22.07.2009 to 21.07.2014
150	M/s Hassan Stone Quarry, Prop. Shaikh Karibul Hassan, father Mohd. Maniruddin, Village Nishatpur. Post Nishatpur Jagatpur. Police Station Mohd. Bazar. District- Virbhum (W.B).	Stone	Shikaripada	Ramzamm	3.57	269, 270, 271, 273, 274, 275, 1015, 1016, and 1017	5 Years 01/01/2010 to 31/12/2014
151	M/s Mandal Stone Kyari, Prop. Mohammad Rizaul Karim, Father Late Sikandar Ali, Village Satsal, Post Makdumngar, Police Station Mohd. Bazar, District Birbhum (W.B.)	Stone	Shikaripada	Ramzamm	1.1	832, 833	05 Years 24.03.10 to 23.03.15



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
152	M/s Tumtani Concern, Partner:--Shri Tapan Kanti Ghosh, father Late Nitai Pad Ghosh, 2. Shri Tanimesh Ghosh, father Shri Tapan Kanti Ghosh, both of village Patel Nagar, Post Mohd. Bazar, Police Station Mohd. Bazar, District Birbhumi (W.B) and 3. Shri Vaidyanath Mandal, father Late Satya Kinkar Mandal, Village Derpur, Post Derpur Police Station Saitiyya. District Veerbhumi (W.B).	Stone	Shikaripada	Ramzam	3.77	1009/P, 1010/P, 1012/P and 1013	5 Years 07.02.11 to 06.02.16
153	M/s Nishan Stone Quarry, Part 0 Saidsa Ibharul Islam and others, Village P.O. Basuvati, District Hooghly.	Stone	Shikaripada	Ramzam	4.02	330, 374, 891, 952, 953	05 year 11/02/2003 to 10/02/2008 renewal upto 10/02/2013
154	Ranjani Stone Quarry Partner:--Shri Kartik Chandra Gourai and other village+P.O- Harinsinghya, Police Station Mohd. Bazar, Veerbhumi.	Stone	Shikaripada	Ramzam	4.86	969	10 Year 24/04/2001 to 23/04/2011 ren 24.04.11 to 23.04.16
155	Shri Navkumar Mandal, father Late Kanhari Lal Mandal, Village Arvind Palli, P.O- Siudi, District Birbhumi.	Stone	Shikaripada	Ramzam	5.46	889, 890, 895 to 897, 888 and 894	10 Year 04/03/2001 to 03/03/2011 ren up to 03.03.2016
156	Abul Basar and others, Alinagar, P.O. Makdoomnagar, District - Birbhumi	Stone	Shikaripada	Ramzam	3	980	10 Year 10/06/2001 to 09/06/2011 Renewal up 09/06/2016
157	M/s Jai Maa Tara Stone Mines, Prop. Shri Suresh Prasad Sah, Father Shri Vishwanath Sah, Village+P.O. Chitra, District-Deoghar.	Stone	Shikaripada	Ramzam	3.99	756/954, 757/329	10 Year 24/04/2001 to 23/04/2011 to 23/04/2016



DISTRICT MINING OFFICER 18 | Page

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
158	Shri Madan Gopal Rathii, Father Shri Jormal Rathii, Village Deshbandhu Road, Rampurhat, Birbhumi.	Stone	Shikaripada	Sarasdanga al	4.77	94 to 100 and 109 to 116, 124/part	10 Year 16/11/2000 to 15/11/2010 14/11/2015
159	M/s Haji Stone Quarry, Prop. Haji Abul Halim, Pila Haji Abdul Ali, Village - Nishatpur, Police Station Mobazar, District Birbhumi (W.B).	Stone	Shikaripada	Saepakukiy a	1.82	56, 57, 58, 59 and 60	5 Years 19/10/2009 to 18/10/2014
160	M/s Maa Tara Stone Product Prop. Ravindra Kumar Singh, Father Shri Kishori Singh, Village Shikaripara, Post Shikaripara, Police Station Shikaripara, District Dumka.	Stone	Shikaripada	Salbona	2.31	132/part and 133/part	05 Year 06/03/2012 on 05/03/2017
161	M/s Maa Bhavani Stone Products, Partner.-- 1 Mr. Anil Kumar Sah, Father Mr. Nand Kishore Sah, Village Gangri Road Aliganj, Police Station Mojahidpur, District Bhagalpur. (Bihar). 2. Shri Ashwani Kumar, father Late Arijun Prasad Gupta, Village Hasanganj, Post Hasanganj Adampur, Post Safatabad, Police Station New Rannagar Munger, District Munger (Bihar), and 3. Shri Chulhan Singh, Father Late Ganga Singh, Village Post Masadh, Police Station Udvandnagar, District Bhojpur (Bihar)	Stone	Shikaripada	Salbona	2.59	115/P, and 116/P	5 Years 30.01.12 to 29.01.17
162	Mrs. Sonali Sinha, Husband Mr. Ambika Sinha, Village Police Station Netaji Palli Post Brahmapur, District 1 No. Banjatiya, Murshidabad (W.B)	Stone	Shikaripada	Salbona Pahar	2.48	125	5 years 05.08.10 to 04.08.15



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
163	Shri Umanand Singh, father Shri Ram Gopal Singh, village Nischinipur Rampurhat, post- Nischinipur Rampurhat, police station Rampurhat, district Veerbhumi (W.B), 2. Shri Suresh Kumar Srivastava, father Late Shiv Dhankar Srivastava, village post Sarasdangal, police station Shikaripada, district Dumka.	Stone	Shikaripada	Salbona Pahar	6	126/P, 127/P, 130/P and 294/P	5 Years 30.01.12 to 29.01.17
164	M/s Tudu Stone Works, Prop. Shri Patras Tudu, Father-Late Kanhu Tudu, Village Kalyanpur, Post Lakhipur, Police Station Ranga, District Sahebganj, Present Address Champanagar, Grant Estate, Post Police Station District Dumka	Stone	Shikaripada	Salbona Pahar	4.71	159/part, 161/part and 162/part	18/01/2016 to 17/01/2021
165	Shri Murari Kumar Singh, father Late Vishwanath Singh, Village Post Police Station Shikaripada, District Dumka.	Stone	Shikaripada	Salbona Pahar	3.82	124/part	30.01.17 to 29.01.2022
166	M/s Super Black Stone, Prop. Shri Mainul Islam, Father Late Mohd. Maniruddin, Village Kauwamahal, Post Benagadia, Police Station Shikaripada, District Dumka.	Stone	Shikaripada	Salbona Pahar	3.4	3, 4, 5, 6, and 7	05 Years 09.03.17 to 08.03.2022
167	M/s Mantagi Enterprises Pvt. Ltd. Part Shree Manoranjan and others, Address -C/284, Road No. 1 Father Late Rajendra Narayan Jaiswal, Ashok Nagar Ranchi 2	Stone	Shikaripada	Daldali	3.43	64/Parts, 65, 66, 67, 68, and 69	10 year 02/04/2005 to 01/04/2015



50 | P A G E S
**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
168	Mr. Lilha Murmu Father Shri Chhutor Murmu, village Dadpur, P.O Dadpur, police station Rampurhat, district Birbhum (W.B.).	Stone	Shikaripada	Daldali	6	70, 71, 72, 73, 90, 91, 93 and 94	10 Years 03.10.2007 to 02.10.2017
169	M/s Girja Gopal Gray Granite, Partner.--Shri Anant Murmu S/o Shri Churu Murmu, Village Barnasia, P.O. - Kharvona, Rampurhat, District Birbhum (W.B.)	Stone	Shikaripada	Daldali	7.7	75, 76, 77, 78, 79, 81 and 83	05 Year 28.11.2007 to 27.11.2012
170	Shri Naveen Kumar Sinha, Father Mr. Kedar Prasad Sinha, village Havivpura M.No. 66, post police station Sohsarai Biharsarif, district Nalanda, and 2. Mr. Dharendra Kumar, father Mr. Ramdhin Prasad, village Nadaha, post Kachhiwaan, police station-Hiisa, District Nalanda.	Stone	Shikaripada	Daldali	3.46	52, 53, 54, 55, and 60	10 Years 08.12.2005 to 07.12.2015
171	Mr. Naveen Kumar Sinha, son of Mr. Kedar Prasad Sinha, village Havivpura M.N.-66, post police station Sohsarai Bihar Sharif, district Nalanda and 2. Mr. Dharendra Kumar, father Mr. Ramdhin Prasad, village Nadaha, post Kachhiyavon, police station Hiisa, district Nalanda.	Stone	Shikaripada	Daldali	3.25	49 and 50	10 years 26.05.2006 to 25.05.2016



511P
DISTRICT MINING OFFICER:
DUMKA

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
172	S. E. W., Krishnanagar Brahmapur Highway Ltd., Authorized Signatories Colonel (Retd) George Mathew, Address-6-3-87, Snehlata Green Land Road, Begumpet, Hyderabad, (Andhra Pradesh) 500016, Present Address 95/1, M.G. Road, Behind District Judge Residence, Krishnanagar, District- Nadia, 745101 (W.B).	Stone	Shikaripada	Chandipur	8.9	1, 10, 11, 13, 14, 15, 18, 19, 25, 26 and 28	5 Years 03.02.12 to 02.02.17
173	Mr. Bablu Mandal, Father Shri Anil Chandra Mandal, Village Pokhariya, Mohalpahari, Dumka.	Stone	Shikaripada	Chandampur	3.68	2173, 2174	5 Years 12/08/2002 to 11/08/2007 Renewal upto 11.08.2012
174	Mohd. Alauddin Ansari, Father Mohd. Fardu Mia, Village Post Ghogadia, Police Station Mofusil Dumka, District Dumka.	Stone	Shikaripada	Jamrupani	1.48	326 and 364	5 Year 10/05/2008 to 09/05/2013
175	M/s Gondween Stone Products, Part 1. Mrs. Shankari Rai, husband Mr. Bhupesh Rai, 2. Mr. Momud Mandal, father late Khilat Mandal, both of them village Ankhola, P.O. Kumarakashipur, Police Station Howrah, District North 24 Parganas (W.B) 3. Shah Jamal Shaikh, father Abdul Azim Shaikh, Village Hajipur, P.O. Begunia, Police Station Moyreshwar, District Veerbhum (W.B) and 4. Mr. Vijay Soren, father Mr. Rasik Soren, Village Jamrupani, P.O. Sarasdangal, Police	Stone	Shikaripada	Jamrupani	1.21	209, 210 and 211	05 Years 22.07.2009 to 21.07.2014



52 | Page
**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
	Station Shikaripada, District Dumka.						
176	M/s Jai Maa Tara Stone Products, Prop. Shri Vinod Prasad Bhagat, father Shri Jageshwar Prasad Bhagat, village PO Saradngal, police station Shikaripada, district Dumka.	Stone	Shikaripada	Jamrupani	6.16	312/P, 313, 327, 329, 330, 332, 333, 334, 335, 336, 337, 338, 340, 341., and 342/P	5 Years 11.10.10 to 10.10.15
177	M/s Mannasand Minerals Pvt. Ltd., Director Shri Shivnarayan Mal, Father Shri Ram Narayan Mal, Address Raja Rajendra Lal Mitra Road, Kolkata- 10, (W.B)	Stone	Shikaripada	Jamrupani	5	299, 301, 303/P, 304 and 305,	05/11/2015 to 04/11/2020
178	Shri Jiten Kumar Das, father Shri Sanat Kumar Das, village post Benagadiya police station Shikaripada, district Dumka.	Stone	Shikaripada	Aanchua	2.37	888, 889, 890, 1686 and 1890	5 Years 07/11/2008 to 06/11/2013
179	Mr. Umesh Kumar Keshari, Father Mr. Arun Keshari, Village Mahajan Patri, Rampurhat, Police Station Rampurhat, District Veerthum (W.B).	Stone	Shikaripada	Aanchua	2.56	1678, 1680, to 1685, 1687, 1688, 1689, 1691 to 1699	05 years 19.02.10 to 18.02.15
180	Mr. Munkir Shaikh, Father Shamshad Rokha Patta MK Enterprises, Village Digalpahari, Post RK Shikhapeeth, Police Station Rampurhat, District Birthum (W.B).	Stone	Shikaripada	Aanchua	3	1673/part, 1955/1874/p art, 1675/part, and 1676/part	5 Years 24.09.10 to 23.09.15
181	M/s S. & J. Stone Quarry, Part I, Shamin Ahmed, father Md. Haider Ali, 2, Zahoor Alam, father S.K. Salauddin, address of both is Village Satsal, P.O. Makdoomnagar, Police Station Md. Bazar, District- Birthum (W.B).	Stone	Shikaripada	Gausai Pahari and Sultbona,	8.62	186, 187/P, 188/P, 189/P, 190/P, 200/P, 201/P, 202/P, 203/P, 204/P, 552/P, 514, 553, 554, 555, 557, 558, 559, 560, 561, 562, 663 and 518	05 Years 01.02.10 to 31.01.15

Approved
Authority
State Level
Shikharipada, Dumka

53 | Page
District Mining Officer,
DUMKA

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
182	M/s H.K. A. Choudhary & Company, Prop. Azimul Islam Choudhary, father Azizur Rahman Choudhary, Village 15 L. Of. Lane, Makdampur, Post Malda, Police Station English Bazar, District Malda (W.B)	Stone	Shikaripada	Gosaipahar i	4.58	154, 156, 157, 158, 159, 163, 164 and 165	05 Years 13.01.10 to 12.01.15
183	Shri Rash Kumar Pal, father: -Late Sudhakar Pal, Village Karkari, Post Khandagram, Thana Dubrajpur, District Birbhum (W.B.).	Stone	Shikaripada	Gosaipahar i	2.09	410/P, 411/P 412/P, 413/P 414/P and 415,	05 Years 12.11.11.to 11.11.16
184	hri Vishnu Charan Das, father, Bhairav Das, village Vishnupur, post Vishnupur Kulkuri, police station-Mau Bazar, district-Virbhum (W.B.).	Stone	Shikaripada	Gosaipahar i	2.05	990, 991, 993, 994, 995, 996, 997 and 998	5 Years 30.01.12 to 29.01.17
185	Fullara Quarries Pvt Ltd., Director I. Shri Chanchal Singhrai, father Shri Bankim Chandra Singhrai, village Mohanwati, post Nachipur, police station Tarakeshwar, district Hooghly (P.No.). 2. Mr. Riaz Phulara, Father Mr. Siddhik Phulara, Address 301-Bhagwati Chamber, 3. Princep Lane, Kolkata 700012	Stone	Shikaripada	Gosaipahar i	3.73	1011, 1012, 1013 and 1014,	05 Years 12.09.11 to 11.09.16
186	Mrs. Jayrab Khatoon, husband late Ibaran Shaikh, Village Gulhatiya, Post Gulhatiya, Police Station Salar, District Murshidabad (W.B).	Stone	Shikaripada	Gosaipahar i	2.56	808, 810, 813, and 814	Renewal 05 Years 01.01.15 to 31.12.2019
187	Noor Hasim Mallik, father Nurul Huda Mallik, village P.O. Saithia, district Birbhum,	Stone	Shikaripada	Gosaipahar i	2.9	894, 896	renewal upto 18/01/2017 the 17.01.22



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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
188	Shri Thakur Shyam Sundar Singh, Father- Late Rameshwar Singh, Kuldeep Singh Road, Dumka. Partner: -- Shaikh Israfil, Father Atul Sheikh alias Khadim Atul, 2. Nazia Khatun, father Mir Qasim Ali, both village- Bodhura, P.O. Palsa, police station-Laipur, 3. Mohd. Yad Rasool, father Abdul Hasim, village Nalunpada, P.O. Digalgram, police station Mohd. Bazar, District Birhum (W.B).	Stone	Shikaripada	Gosaipahar i	1.3	1003/P	5 years 01/10/2009 to 30/09/2014
189	Mrs. Thekaran Bestra (Marandi), husband Mr. Kharo Bestra, village Dharampur, post Kasthogoda, police station Rampurhat, district Birhum (W.B).	Stone	Shikaripada	Gosaipahar i	5	100/part, 1005/part, 1006/part, 1007, 1008 and 1009/part	5 Year 30/07/2008 to 29/07/2013
190	Shri Bhola Nath Das, father Late Gaurang Sunder Das, Village Post- Harinsingha, Police Station Mohd. Bazar, District Birhum (W.B).	Stone	Shikaripada	Goldahar	1.09	671	5 years 20.06.2008 to 19.06.2013
191	M/s Bengal Stone Quarry, Prop. Mir Abbas Ali, Father Mir Hyder Ali, Village PO Mallarpur, Thana Mayureshwar, District Birhum (W.B).	Stone	Shikaripada	Gosaipahar i	5	721/part	5 Years 19/05/09 TO 18/05/2014
192	Shri Krishnavihari Bhagat, Village P.O. Mirzachowki, District- Satebganj	Stone	Gopikandar	Ahrichuon	5.5	599/356, 600/357	10 Year 16/06/2004 to 15/06/2014



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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
194	Mr. Dashrath Roose, father Mr. Vijay Roose, village Barakola. 2. Mr. Zakir Ansari, father Aftaaddin Mian, village Dumariya Bada. 3. Mr. Dwijapad Mandal, father Mr. Shri Charan Mandal, village Patampur, all three Panchayats Pindari, District Dumka. 4. Sahadat Ansari, father Haifz Mian, village Kumhgada, police station Palojori, district Deoghar.	Stone	Masliya	Barakola	3	632 634 635, 638 639	10 Years 24.06.2005 to 23.06.2015
195	Mr. Shyam Pad Das, father Mr. Ramovtar Das, Village P.O. Bediyachak, B. Gamhariya, Masalia, District Dumka.	Stone	Masliya	Vihajori	1.4	280, 281	10 Years 24.11.2005 to 23.11.2015
196	Part 1. Shri Prakash Bhagat, father Shri Sudama Prasad Bhagat, village Kharauni, post Karudih, police station Gopikander, district Dumka and 2. Shri Santosh Kumar Bhagat, father Shri Suresh Prasad Bhagat, village post Fuljhinhari police station Pakudiya, district Pakur.	Stone	Gopikandar	Ahrichuon	2.17	482/part, and 483/part	05 Years 10.02.10 to 11.02.15
197	Sarvashree Hanuman Stone Industries, Part 1. Shri Pawan Kumar Bhagat, father Shri Manbharan Prasad Bhagat. Village Post Police Station Kathikund. 2. Shri Umesh Kumar Mandal, father Shri Dhruv Mandal, village Kaudiya, post Kadma, police station Kathikund, and 3. Shri Harvinder Singh, father Shri Hari Singh, village Naharpark, post police station Dumka, all of district Dumka.	Stone	Gopikandar	Daldali	4.3	834, 836, 840, and 842	05 Years 04.05.10 to 03.05.15



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
198	Shri Ranjan Kumar Bhagat, father Shri Jitendra Prasad Bhagat, village Tejiachak Bazar, post- Kathikund, police station Kathikund, district Dumka.	Stone	Kathikund	Dalathi	1.4	28	05 Years 20.03.10 to 19.03.15
199	Shri Rajeev Kumar, Father Shri Raghuveer Bhagat, Village Amrapada, Post Amrapada, Police Station Amrapada, District Pakur	Stone	Gopikandar	Ahrichuon	2.09	578 (old) / 626 (new) and 579 (old) / 627(new)	05 years 08.06.10 to 07.06.15
200	M/s East India Stone Quarry, Prop. Imran Khan, father St. Imran Bux, village post Asarbani, police station Rameshwar, district- Dumka.	Stone/qu artzite	Rameshwar	Paharpur/N andana	16.88	Plot 01/part of Mauja Paharpur and plot number 1473/part and 1474/part of Mauja Namdana.	05 years 23.06.10 to 22.06.15
201	Renu Kumari, father Shri Indradev Pandey, Village Indiranagar, Police Station District Dumka.	Stone	Gopikandar	Daldali	4.99	843, 849, 850 and 854	5 years 20.07.10 to 19.07.15
202	Shri Sanjay Kumar, father Shri Mahadev Prasad, village Rajauli, post police station Rajauli, Rajauli, district Nawada (Bihar), and 2. Shri Deepak Kumar Singh, father Shri Ashok Kumar Singh, Village Masnodih, Post Masnodih, Police Station Koderma, District Koderma.	Stone	Jamundi	Chaurnuria	2.38	384/part	5 years 14.08.10 to 13.08.15



DISTRICT MINING OFFICER
DUMKA

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
203	M/s Co-operative Stone Products, Part 1. Mr. Smile Marandi, Father- Shri Mosey marandi, Village Bhal Sungia, Post Rajdaha, Police Station Kathikund, District Dumka 2. Khisht Anil Marandi, Father Mr. Gobriel Marandi, Village Rajdaha, Bhal Sungia, Post Police Station - Kathikund, District Dumka. 3. Mr. Albin Hembram, Father-Late Dhan Hembram, Village Lakdapahari, Post Bhurkunda Police Station - Dumka Mofusil, District Dumka, and 4. Shri Sunil Tudu, Father Shri Gopin Tudu, Village Golpur, Post Teiachak, Dumka, Police Station Dumka Muffil, District-Dumka	Stone	Gopikandar	Ahrichuon	2.24	414/part	5 years 28.07.10 to 27.07.15
204	Shri Dasrath Kumar, father Shri Ram Nagina Bhagat, village Kuschira, post Amdapara, police station Gopikandar, district Dumka.	Stone	Gopikandar	Manjurabadi	1.42	198, 199, 200, 201, 202 and 210	5 Years 12.01.11 to 11.01.16
205	M/s Simplex Infrastructures Ltd., Address Simplex House-27, Sexpier Sarani, Kolkata-700017. Authorized representative Mr. Sudhil Kumar Choudhary, father Mr. Sitaram Choudhary, Halmakam-Bossi, Post Police Station Baunsi, District Banka (Bihar).	Stone	Saraiyahat	Chorbatiya	5.01	64	05 Years 12.11.11 to 11.11.16



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
206	M/s Simplex Infrastructures Ltd., Address Simplex House- 27, Sexpier Sarani, Kolkata-700017. Authorized representative Mr. Sudhil Kumar Choudhary, father Mr. Sitaram Choudhary, Halmakam-Bossi, Post Police Station Baunsi, District Banka (Bihar),	Stone	Saraiyhat	Chorbatiya	10.36	10, 11, 12, 13, 39, 40, 41, 42, 43 and 44	6 Years 12.11.11 to 11.11.16
207	Shri Harihar Choubey, father Late Mahavir Choubey, Village Post Rajdaha, Police Station Pakudiya, District Pakur.	Stone	Gopikandar	Daldali	1.79	659/part, 860 and 861/part	5 Years 19.12.10 to 18.12.15
208	Shri Jiten Kumar Das, father Late Mukund Chandra Das, Village Basmata, P.O. B. Gamhariya, Police Station Masliya, District Dumka.	Stone	Masaliya	Nayapara	1.7	68, 73, 193, 196, 197, 212, 213, 214, 215 and 216	10 Years 06.03.2006 to 05.03.2016
209	Shri Anil Kumar, father Shri Sonelal Sah, village Naunihat, post Naunihat, police station Hansdih, district Dumka.	Stone	Ramgarh	Kantiya jamai	1.5	382	10 year 31.03.2006 to 30.03.2016
210	Shri Rajiv Ranjan Bhagat, S/o Late Shivnath Bhagat, Permanant address Village Mahuara, Post Loganya, Police Station Mahagama, District Goddal, Present Address Village Devinagar, Post Devinagar, Police Station Maheshpurraj, District Pakur.	Stone	Gopikandar	Amarpur	8.4	304, 395/part, 397, 637 and 638	5 Years 28.02.11 to 27.02.16
211	M/s Pooja Akshat Stone, Prop. Mrs. Rita Jaiswal, Husband Shri Sanjeev Kumar Jaiswal, alias Mantu Jaiswal, Address - Durgasthan Road, Mairapada, Post Dumka, Police Station Dumka, District Dumka.	Stone	Gopikandar	Ahrichuon	2.22	405	5 Years 04.05.11 to 03.05.16

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DISTRICT MINING OFFICER:

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
212	Shri Surya Narayan Bhagat, father Late Kedar Nath Bhagat, Village Post Police Station Kathikund, District Dumka, and, 2. Shri Laxman Prasad Bhagat, S/o Shri Baleshwar Bhagat, Village-Durgapur, Post Sageria, Police Station Pakuria, District Pakur.	Stone	Gopikandar	Amarpur	3.1	768 769 770, 771, 772 and 773	5 Years 23.05.11 to 22. 05. 16
213	Shri Sanjeev Kumar father Shri Rannath Prasad Bhagat, village Amrapada, district Pakur.	Stone	Gopikandar	Ahrichuon	2.48	515 and 516	10 year 21/06/2006 to 20/06/2016
214	M/s Jai Stone Products, 1. Shri Rajeev Ranjan, S/o Shri Jai Prakash Thakur, Village Rasikpur, Post Dumka, Police Station Dumka, District Dumka and 2. Shri Babu Rai, S/o Late Lal Bihari Rai, Village Ahrichuon, Post Kharauri, Police station Gopikandar, district Dumka.	Stone	Gopikandar	Ahrichuon	8.46	460, 463/part, 464 and 465.	5 Years 04.07.11 to 03.07. 16
215	M/s East India Stone Quarry, Prop. Imran Khan, father St. Imam Bux, village post Asanbani, police station Raneshwar, district- Dumka.	Stone/quartzite	Raneshwar	Paharpur	8.33	1/part	05 years 09.12.11 to 08.12.18
216	M/s Jai Baba Basukinath Stone Works, Prop. Shri Subodh Kumar Bhagat, Father Shri Ram Kumar Bhagat, Village Fujhinghari, Post- Fujhinghari, Police Station Pakuria, District Pakur.	Stone	Gopikandar	Ahrichuon	7.59	475, 476, 477, 478, 479, and 480	05 years 15.06.10 to 14.06.15
217	Shri Manoj Kumar Gupta, S/o Late Zia Prasad Sah, Village Gopikandar, Post Gopikander, Thana Gopikander.	Stone	Gopikandar	Ahrichuon	2.97	360/part, 361/part, 362/part, and 367/Partner.-	5 Years 28.02.11 to 27. 02. 18



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
	Gopikander, District Dumka						
218	Sri Dev Narayan Rai Father Shri Akalu Rai, village Ahrichua, post Karudih, police station Gaupikander, district Dumka.	Stone	Gopikandar	Ahrichuon	4.38	420, 421, and 422/part	5 Years 04.02.11 to 03.02.16
219	Shri Gaurishankar Bhagat, Father late Kedar Nath Bhagat, and 2. Shri Ramroop Bhagat, father late Vajinath Bhagat, both of them village Kathikund, post Kathikund, police station Kathikund, district Dumka	Stone	Kathikund	Dalahi	2.34	15/part, 16/part, 17, 18, 19/Partner- 20/part, 21, 22 and 23	5 Years 04.05.11 to 03.05.16
220	Mrs. Annapurna Devi Meheria, husband Late Arun Kumar Meheria, Village Post Police Station Palojori, District Deoghar.	Stone	Masaliya	Chota dumaria	3.92	01/part, 3/part, 04/part, and 05/part	Renewal 04/12/2014 to 03/12/2019
221	Shri Manoj Kumar, father of Shri Laxman Prasad Bhagat, Village Kharoni, Post Karudih, Thana Gopikander, District Dumka.	Stone	Gopikandar	Ahrichuon	2.56	430, 431 and 432	05 years 28.05.10 to 27.05.15 to 27.05.2020
222	Shri Suresh Kumar Verma. Father Late Prabhu Narayan Lal, Address College Road, Post Dumka, Police Station Dumka, District Dumka	Stone	Gopikandar	Ahrichuon	3.91	372 and 373	05 years 08.06.10 to 07.06.15 Renewal upto 07.06.2020
223	Tribal Stone Cooperative Society, Partner.- Shri Jagir Kisku, Father Late Gupin Kisku, Village Dundwa, Post Karudih, Police Station Gopikander, District Dumka.	Stone	Gopikandar	Ahrichuon	3.7	413	10/11/2015 to 09/11/2020



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
224	Partner--Akhilesh Prasad Bhagat, father Late Suryadayal Prasad Bhagat and 2. Shri Vijay Prasad Bhagat, father Shri Sudama Prasad Bhagat, both of village-Kharauni, Post Karudih, Police Station Gopikander, District Dumka.	Stone	Gopikandar	Ahrichuon	5.45	552/part	12/01/2016 to 11/01/2021
225	M/s Mahadev Stone Products, Partner:-- Mr. Bhadu Rai, father Late Kalu Rai, 2. Mr. Jageshwar Rai, father Late Giridhari Rai, 3. Mr. Laldev Rai, father-Late Dhanpati Rai, village Ahrichuon of all three, Post Karudih, Police Station Gopikander, District Dumka and 4. Mr. Subodh Kumar Bhagat, father: -Shri Ram Kumar Bhagat. Village Post Fujhinkari, Police Station Pakuria, District Pakur.	Stone	Gopikandar	Ahrichuon	6.37	333, 334, 341 and 343	25/02/2016 to 24/02/2021
226	Shri Mangal Kumar Chand, s/o Late Haripad Chand, Village Gopikander, Post Gopikander, Thana Gopikander, District Dumka.	Stone	Gopikandar	Musna	3.27	145	15.07.15 10 14.07.2020
227	Regalia Developers Pvt. Ltd. Director Mr. Rajesh Rajpal, Father Mr. Mohan Lal Rajpal, Address Jain Mandir, Shivnath Rai Road, Castor Town, Post Police Station- Deoghar. District Deoghar.	Stone	Gopikandar	Budichapar	2.69	209, 212, 213, 215 216.	5 Years 09.01.12 to 08.01.17 Ren up to 08.01.2022



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
228	M/s Ashoka Wildcon Ltd. Authorized representative Mr. Nitraj Kumar, father Mr. Tapeswar Prasad Singh, present address Kailash Enclave C-3. Gilanpada, Post-Station District Dumka, Permanent Address Ashoka House, Ashoka Marg, Vandi Nashik Road, Nashik, (Maharashtra) Pin 422011	Stone	Saraiyahat	Chorvatia	5.46	42/parts, 44 and 59	05 Years 09.03.17 10 08.03.2022
229	Mr. Santosh Kumar Singh, Father Shri Sadhu Sharan Singh, Village Shimla Post Police Station Palojori, District Deoghar.	Stone	Masaliya	Domkatta	3.13	248/part, 250/part, 251/part, 252/part, 253, 254/part, 255/part, 257/part & 258	31.03.2022
230	Shri Shyamal Prasad Singh, father Shri Rajendra Prasad Singh, village Pipra, P.O. Basbutia, police station Palojori, district Deoghar.	Stone	Jarmundi	Samalapur	0.75	105/part	31.03.2022
231	Mr. Sukdev Pandit, father Late Nakul Pandit, Village.- 22 D. Singhani, Post- Dumaria, Police Station-Sonaraihadi, District-Deoghar 2. Mr. Prafulla Chandra Mandal, father Late Masoudi Mandal, Village Kulhadiya, Po. Dumaria, Police Station Sonaraihadi, District Deoghar.	Stone	Jarmundi	Bara	1	188/part, 89	31.03.2023
232	M/s Raksha Kali Stone Works, Prop. Shri Shankar Bhagar, father Shri Dilip Bhagar, Village Rammagar, Post- Malpahari, Police Station Pakur, District Pakur.	Stone	Gopikandar	Ahrichuon	2.4	394	03.10.2016 to 02.10.2021



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
233	Shri Harinandan Choudhary, Father Late Vindeshwari Choudhary, Address - Bhagalpur Road Dudhani Dumka, Post-Station District Dumka.	Stone	Gopikandar	Chararchuan	5.13	516, 517, 518, 519, 520 and 521	19.09.17 to 20.09.22
234	Mr. Kumar Rajeev Ranjan, Father Shri Vinda Singh, Village Nischintpur, Post-Station Rampurhat, District Birbhum (W.B.)	Stone	Shikaripada	Majhladih	4.67	722 and 723	20.09.17 to 19.09.22
235	Shri Narayan Verma, Father-Shri Asu Verma, Village Post Police Station Shikaripada, District Dumka.	Stone	Shikaripada	Pahadpur	2.13	531 and 539	25.09.17 to 24.09.22
236	M/s Srishti Stone Works Part-2. Partner.-- Manisha Singh, husband Shri Dhnanjay Singh, village post police station Shikaripara, district Dumka and 2. Shri Vinod Prasad Bhagat, father Shri Jageshwar Prasad Bhagat, village- Sarasdangal, post police station Shikaripara, district- Dumka.	Stone	Shikaripada	Majhladih	2.65	1267/part, and 1275/part	20.09.17 to 19.09.22
237	Shri Thakur Shyam Sunder Singh, father Late Rameshwar Singh, Village Kuldeep Singh Road, Post Police Station District Dumka.	Stone	Shikaripada	Gosainpahari	2.12	985/part, 987/part, 988/part, and 989	18.09.17 to 17.09.22
238	Shri Nirmal Jain (HUF) Creator Nirmal Jain, Father Shri Jai Kumar Jain, Address--Ranchi Road Shriram Apartment, 1st Floor, Jhumritilaiya, District Koderma, 8254091	Stone	Shikaripada	Gosainpahari	6.61	149/P, 150/P, 151/P, 152/P, 153/P, 154, 155/P, 156/P, 157/P, 158, 159/P, 163, 164/P, 165/P, 166/P, 167/P, 168/P	22.09.17 to 21.09.22



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
239	Shri Mamak Chand Maheshwari, father Late Shyam Sundar Maheshwari, address Old Police Club Sarai Road, Dumka, Post Police Station District Dumka.	Stone	Shikaripada	Shehbera	6.09	325, 327, and 328	21.09.17 to 20.09.22
240	Shri Meraj Ansari, father Hakimam Miyan, village post Pinargadya, police station Shikaripada, district Dumka.	Stone	Shikaripada	Chitragadya	3.25	168/part, 169/part, 170/part, 171/part, 172/part, and 173/part,	24.09.17 to 23.09.22
241	Shri Raieev Banerjee, Father Late Gurudas Banerjee, Village Dr. RK Sinha Road, Post Bolpur, Police Station Bolpur, District Birbhum (W.B).	Stone	Shikaripada	Gosainpahari	2.54	1004/part, 1005/part and 1006/part,	24.09.17 to 23.09.22
242	Partner - Shri Mantu Kumar Mandal, father of Late Sushil Mandal, Village Kharoni Bazar, Post Thana Gopikander, District Karudih, Dumka and Gopikander, 2. Shri Mangal Kumar Chaund, father of Late Haripado Chand, Village Post Thana District - Dumka.	Stone	Gopikandar	Lakhbad	6.19	113, 114, 115, 116, 119, 120, 121 and 122,	30.09.17 10 29.09.22
243	Shri Sushant Mandal, father Shri Shanti Kumar Mandal, Village Lal Kothpada, Post Police Station Siuri, District - Veerbhum (W.B).	Stone	Shikaripada	Kulkulidan gal	2.96	696	30.09.17 10 29.09.22
244	Ghulam Zakaria Mallik, father Mohd. Nazir Hussain Mallik, Village Bharkatta, Post Bharkatta, Police Station Mohd. Bazar, District Birbhum (W.B).	Stone	Shikaripada	Kulkulidan gal	3.23	721, 723, 724, 726, 728, 729, 736, 737, and 735/part	02.12.2007 to 01.12.2012 Renewal 01.12.2022



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
245	Shri Sobhamay Rahut, Father Late Sachindra Nath Rahut, Address 17/8 Anand Mohan Bose Road, Janani Apartment Second Floor, Dumdum, Post Motijheel, Police Station Dumdum, Kolkata 700074, District 24 Parganas (W.B.)	Stone	Shikaripada	Paudavasur i	2.9	772	Renewal 31.03.2013 to 30.03.2023
246	Shri Saroj Kumar Bhagat, father Shri Mohan Lal Bhagat, village post SarasDhangal, police station Shikaripada, district Dumka.	Stone	Shikaripada	Nijhor	4.71	518, 519, 548, 549, 550, 551, 554 and 555	16.07.2020 to 15.07.2025
247	Shri Ravindra Nath Chand. Father of Late Yadunath Chand, Village+ Post+Thana-Gopikandar. District Dumka.	Stone	Gopikandar	Rambani	6.25	16	18.12.17 to 17.12.22
248	Venkaatesha Crossing and Mining Company Pvt. Ltd., Part Mr. Balu Nagaraj and others, father Mr. Ramaya Nagaraj Address Flat No. 10, Paigah Colony, Sardar Patel Road Secunderabad, 500003 (Andhra Pradesh).	Stone	Shikaripada	Kurunda	9.14	233, 249, 250, 251, 252, 254, 255, 256, 258, and 259.	18.12.17 to 17.12.22
249	Satyam Stone Mines, Prop. Mohd. Maymiridheel Father Late Mohd. Badrudoja, Village Mahendrapur, Post Jaikrishnapur Rampurhat. District Birbhum (W.B)	Stone	Shikaripada	Aamchua	3.22	875, 895, 896, 897/part, 906/part, 907/part, and 912/part,	27.02.18 to 26.02.2023
250	M/s Gagandeep Commodities Trade Pvt. Ltd. Director-Mr. Sujay Bhojal, Father Late Naresh Chandra Bhowal, Address-Branch Office,3C Gopal Complex, 3rd Floor, Kachari Road, Ranchi, Pin-834001	Stone	Shikaripada	Shehbera	3.75	320 and 322	27.02.18 to 26.02.2023



**DISTRICT MINING OFFICER,
DUMKA**

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



S.No	Name of mining lessee	Mineral	Block	Mauza	Area (in acres)	Plot no.	Lease duration
251	Mr. Zubair Ahmed, Father Mohd. Akhtar, Village Post Police Station Shikaripada, District Dumka. Lease transfer accepted:- M/s Sushiti Stone Works, Prop. Mrs. Manisha Singh. Husband- Mr. Dhananjay Singh, Village Post Police Station Shikaripada, District Dumka.	Stone	Shikaripada	Pokharia	4.17	1113, 1114, 1115, 1116, 1117, 1119, 1120, 1121, 1122, 1123, 1124 1125 and 1127	27.02.18 to 26.02.2023
252	M/s Basundhara Black Stone, Partner:--Mr. Safiqui Islam, Father Mohd. Nazim Ali, Village Bharsalapaka, Post+Police Station- Rampurhat, District- Birbhum (W.B) 731224, 2. Mohd. Milan Miyan, Father Barkat Miyan, Village Post Taloa, Police Station Moreswar, District Birbhum (W.B.) 731216, 3. Hafijul Moin. Father- Ghulam Zikariya, Village Post - Kanachi .Police Station - Moreswar, District Birbhum (W.B.) 731216, and 4. Md. Sapisaddin Sheikh, father- Md. Abdul Hadi. Village Lochiyatar, Post- Sindrigada Bazaar, Moreswar, District Birbhum (W.B.)	Stone	Shikaripada	Chitragadiy a	2	57 and 58.	31/03/2018 to 30/03/2023



**DISTRICT MINING OFFICER,
DUMKA**

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



3 GENERAL PROFILE OF THE DISTRICT

3.1 Introduction

Dumka, the headquarter of the Dumka district and Santhal Pargana region, is a city in the State of Jharkhand, India. It was made the headquarter of the Santhal Pargana region, which was carved out of the Bhagalpur and Birbhum district after the Santal Hool of 1855. Dumka was carved out of the southern part of Bihar along with 24 other Districts on 15th November 2000 to form Jharkhand as 28th State of India. The nearest important cities are Rampurhat and Deoghar. Dumka is predominantly a hilly terrain district with numbers of drainages. Entire district is with high ridges and valleys. Hills are mostly present on the NE, SE and South side of the district. Because of the hilly terrain erosion is on higher side result in to low fertility of Soil and high acidic character.

Dumka District, an administrative district of Jharkhand has its headquarter is at Dumka. After formation of new Jharkhand State, Dumka district was further divided and Jamtara Sub-Division was upgraded as a separate District. The district lies between 230 45' to 240 38' (North) Latitude and 860 20' to 870 75' (East) Longitude. The Dumka District is surrounded by following districts of Jharkhand Bihar and West Bengal: -

- ✦ North: Sahibganj, Dumka (Jharkhand) and Banka (Bihar)
- ✦ East: Pakur (Jharkhand) and Burdwan (West Bengal)
- ✦ South: Jamtara (Jharkhand) and Burdwan (West Bengal)
- ✦ West: Deoghar (Jharkhand)

The district falls under Survey of India Toposheet No. - 72 P/2, 3, 4, 6, 7, 8, 10, 11, 12, 16; 72 L/12, 14, 16; 73 M/1, 5 and 73 L/9, 13.

(Source – dumka.nic.in)

Blocks

- ✦ Dumka
- ✦ Gopikandar
- ✦ Jama
- ✦ Jammundi
- ✦ Kathikund
- ✦ Masaliya
- ✦ Rangarh
- ✦ Ranishwar
- ✦ Saraiyahat
- ✦ Shikaripara

(Source – dumka.nic.in)

Blocks	Panchayat	No. of Village
Dumka	25	153
Gopikandar	7	129
Jama	23	319
Jammundi	27	470
Kathikund	12	197



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DUMKA

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



Masalia	21	318
Ramgarh	27	348
Raneshwar	17	216
Saraiyahat	25	352
Shikaripara	22	261

(Source – Census 2011)

Location map of Dumka district of Jharkhand

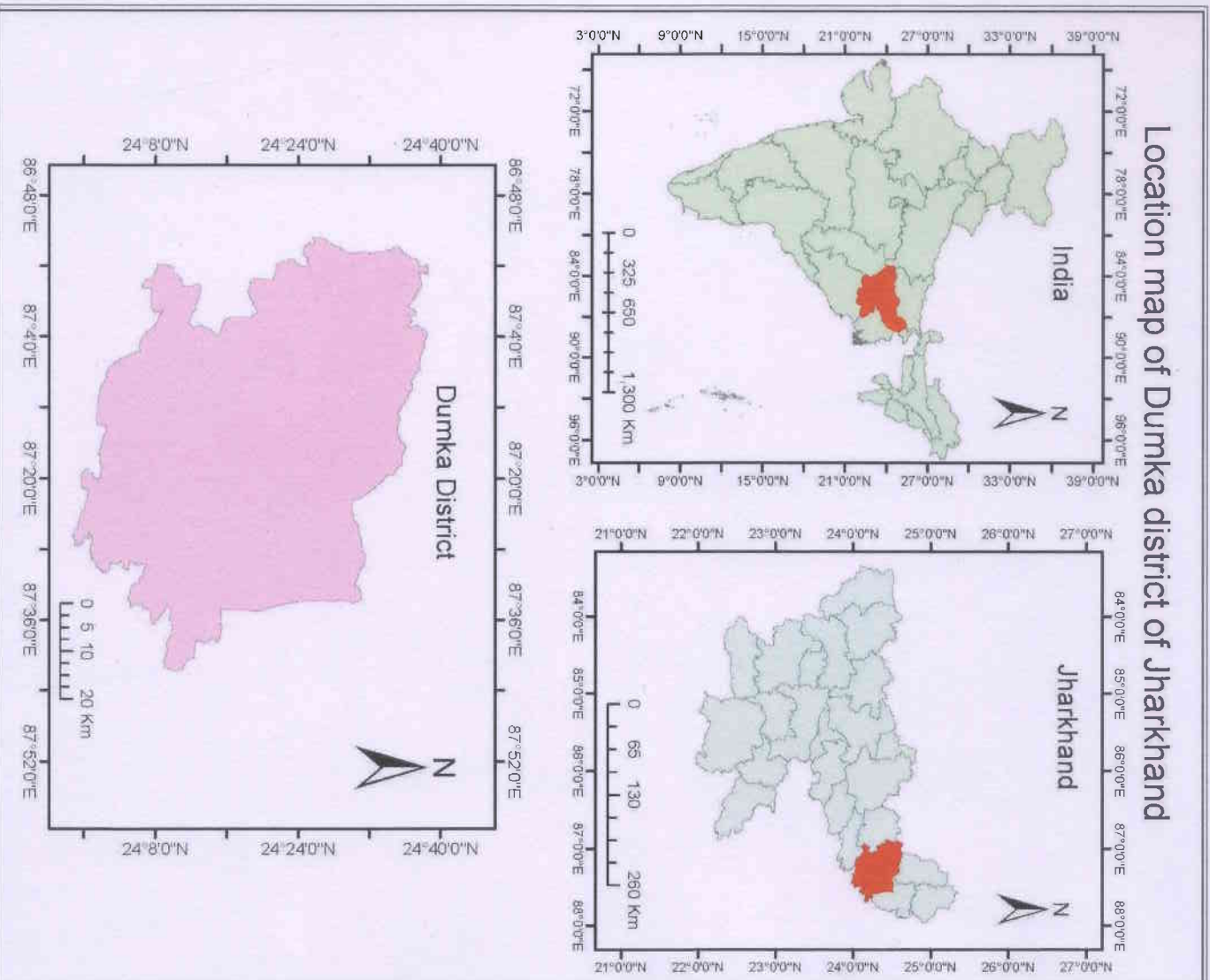


Figure 3-1 - Location map of Dumka district, Jharkhand



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



3.2 Administrative Setup of District

Dumka district has one Sub-division (Dumka). There are 10 blocks in Dumka district. There are 206 Gram Panchayats and 2944 revenue villages in this district. Block/ circle Dumka, Gopikandar, Jama, Jarmundi, Kathikund, Masaliya, Ramgarh, Ranishwar, Saraiyahat, Shikaripara.

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 Dumka Includes:

- Collectorate
- Subdivision
- Blocks
- Panchayats




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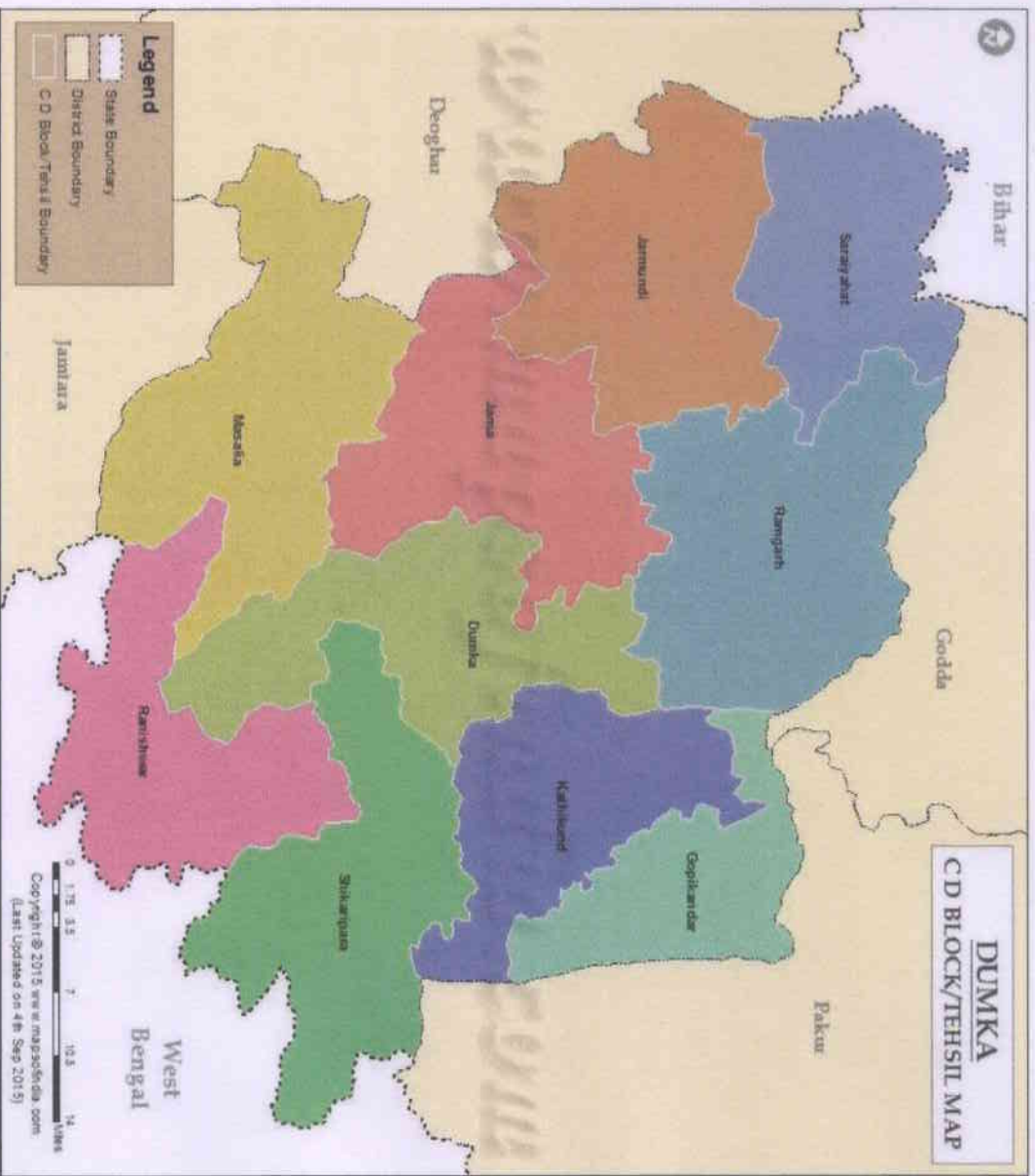


Figure 3-2.- Block map of Dumka District, Jharkhand

3.3 Topography

Dumka has predominantly undulating terrain with hard rocks in the underground. Entire district has a topography with high ridges and valleys bounded by mountains and rivers. The fertility of Soil is poor due to extensive erosion, acidic character and low retaining capacity. Climate here is tropical.

The topography within 2 miles of Dumka contains only modest variations in elevation, with a maximum elevation change of 253 feet and an average elevation above sea level of 469 feet. Within 10 miles contains only modest variations in elevation (1,037 feet). Within 50 miles contains very significant variations in elevation (2,306 feet).



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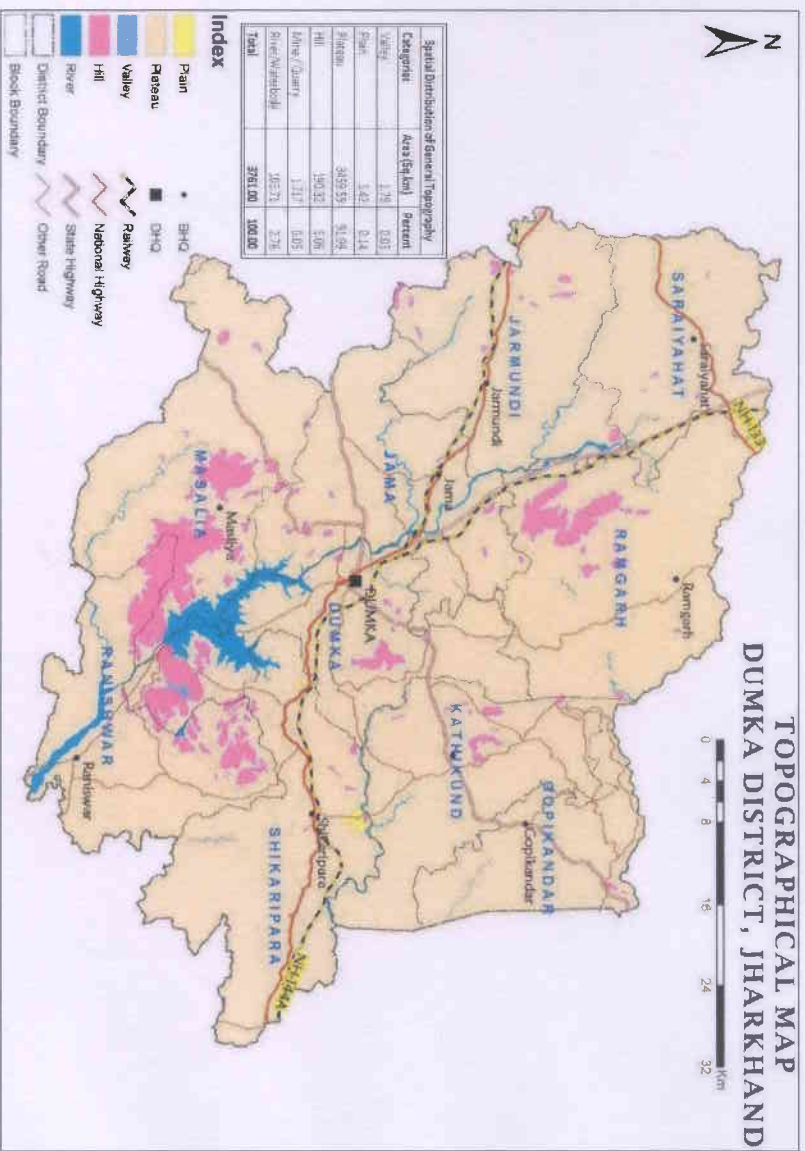


Figure 3-3:- Topographical Map Dumka District Jharkhand

3.4 Demography

An official Census 2011 detail of Dumka, a district of Jharkhand has been released by Directorate of Census Operations in Jharkhand. Enumeration of key persons was also done by Census officials in Dumka district of Jharkhand. In 2011, Dumka had population of 1,321,442 of which male and female were 668,514 and 652,928 respectively. In 2001 census, Dumka had a population of 1,106,521 of which males were 563,850 and remaining 542,671 were females. The last census of Dumka was done in 2011 and next census of 2021 has been postponed or cancelled but census of India can do projection of future Dumka 2023 Population on the basis likely Population Growth Rate

Table 3-1 - Projected Population of Dumka, Jharkhand

Year	Projected Population
2011	1,321,442
2021	1,530,000
2022	1,560,000
2023	1,570,000
2024	1,590,000
2025	1,600,000
2026	1,620,000



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DUMKA

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



2027	1,630,000	16.31 Lakhs
2028	1,640,000	16.40 Lakhs
2029	1,640,000	16.48 Lakhs
2030	1,650,000	16.54 Lakhs
2031	1,650,000	16.59 Lakhs

Table 3-2:- Demography Details of Dumka District

Sl. No.	INDICATOR	DUMKA	JHARKHAND	SOURCE	YEAR
1	Population	1321442	32988134	Census of India	2011
2	Male	668514	16930315	Census of India	2011
3	Female	652928	16057819	Census of India	2011
4	Rural	1231264	25055073	Census of India	2011
5	Urban	90178	7933061	Census of India	2011
6	SC Population	79614	3985644	Census of India	2011
7	SC Population Male	40802	2043458	Census of India	2011
8	SC Population Female	38812	1942186	Census of India	2011
9	ST Population	571077	8645042	Census of India	2011
10	ST Population Male	282125	4315407	Census of India	2011
11	ST Population Female	288952	4329635	Census of India	2011
12	Population Growth Rate, 2001-11(%)	19.39	22.34	Census of India	2011
13	Child Population (0-6 Years)	219449	5389495	Census of India	2011
14	Child Population (0-6 Years) to total population (%)	16.60	16.33	Census of India	2011
15	Sex Ratio (Female per 1000 males)	977	949	Census of India	2011



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



16	Sex at Birth, Total	927	930	AHS	2012-13
17	Sex at Birth, Rural	936	943	AHS	2012-13
18	Sex at Birth, Urban	782	884	AHS	2012-13
19	Child Sex Ratio (0-6 Years; girls per 1000 boys)	966	948	Census of India	2011
20	Gross Enrolment Ratio (Primary)	99.7	155.8	DISE	2010-11
21	Crude Birth Rate, Total (Per 1000)	25.4	23.0	AHS	2012-13
22	Crude Birth Rate, Rural (Per 1000)	26.0	24.3	AHS	2010-11
23	Crude Birth Rate, Urban (Per 1000)	18.7	19.4	AHS	2012-13
24	Crude Death Rate, Total (Per 1000)	6.7	6.0	AHS	2010-11
25	Crude Death Rate, Rural (Per 1000)	7.1	6.4	AHS	2012-13
26	Crude Death Rate, Urban (Per 1000)	6.4	5.7	AHS	2010-11
27	Total Fertility Rate	3.0	2.7	AHS	2012-13
28	Wealth Index- lowest (20%)	31.6	20.0	AHS	2010-11
29	Wealth Index- Highest (20%)	11.7	20.0	AHS	2012-13
30	Work Participation rate (15 years and above)	46.5	45.7	AHS	2010-11

(Source - <https://dumka.nic.in/demography>)



**DISTRICT MINING OFFICER,
DUMKA**

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



3.5 Connectivity in Dumka District

State capital Ranchi is connected directly to Dumka via Railway line. National Highway 114A, commonly referred to as NH 114A is a national highway in India. It is a spur road of National Highway 14. NH-114A traverses the State of Jharkhand in India.

Dumka is a small town. It is connected with road to the neighbouring city. Also, Dumka is connected with neighbouring cities such as Deoghar, Bhagalpur (Bihar) and Rampur hat (Jharkhand) through Railway line. Besides this, State's capital Ranchi is connected directly to Dumka via Railway line. Now inter-district travel for Dumka is much more comfortable and is much cheaper than earlier. Nearest Railway station is 2.2 km from the district headquarter and has connectivity with other parts of the district.

The nearest airport is Deoghar Airport at a distance about 78 Km and Ranchi Airport at a distance about 283 Km in Jharkhand.




**DISTRICT MINING OFFICER,
DUMKA**

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

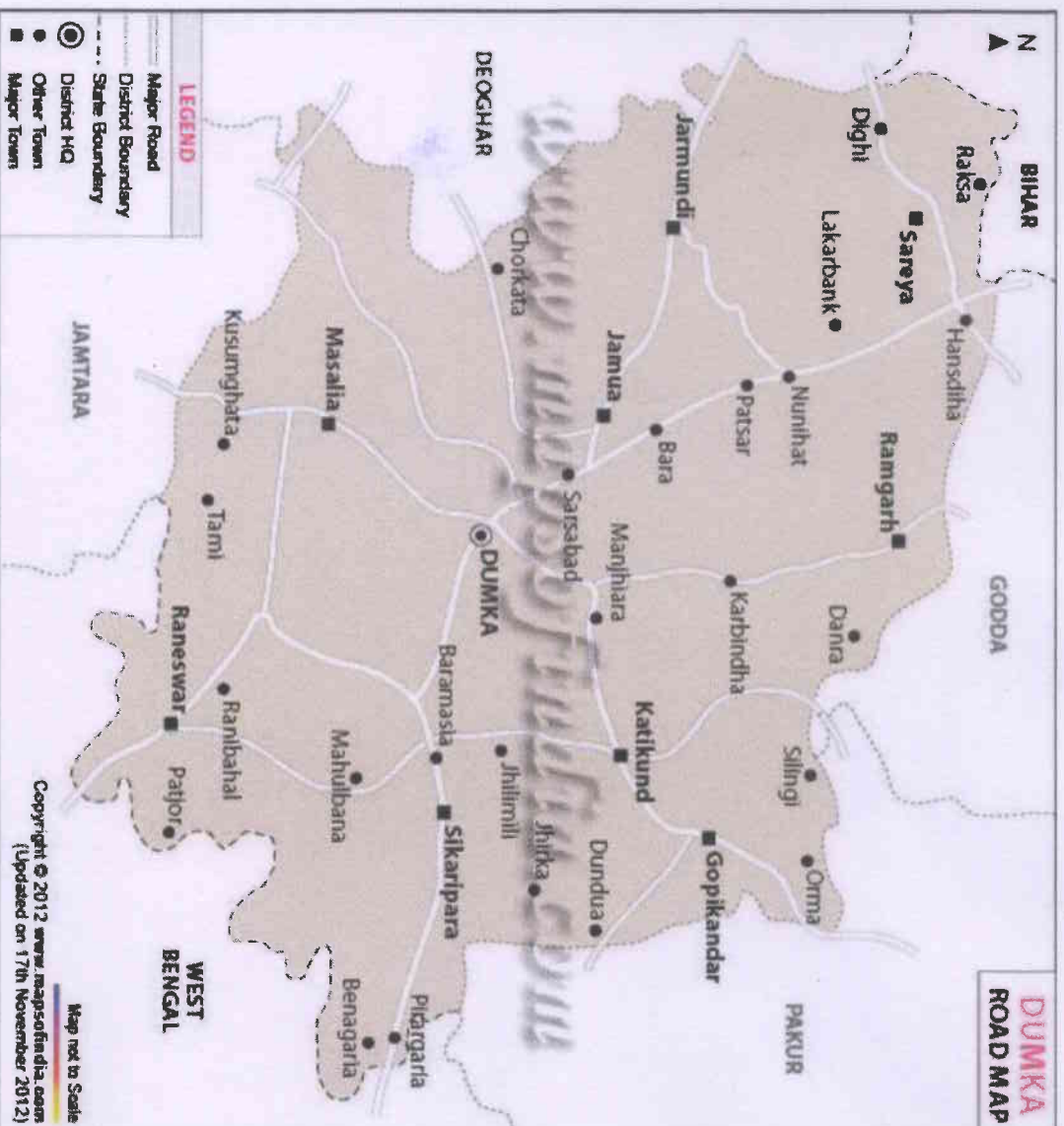


Figure 3-4: Road Map Dumka District

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



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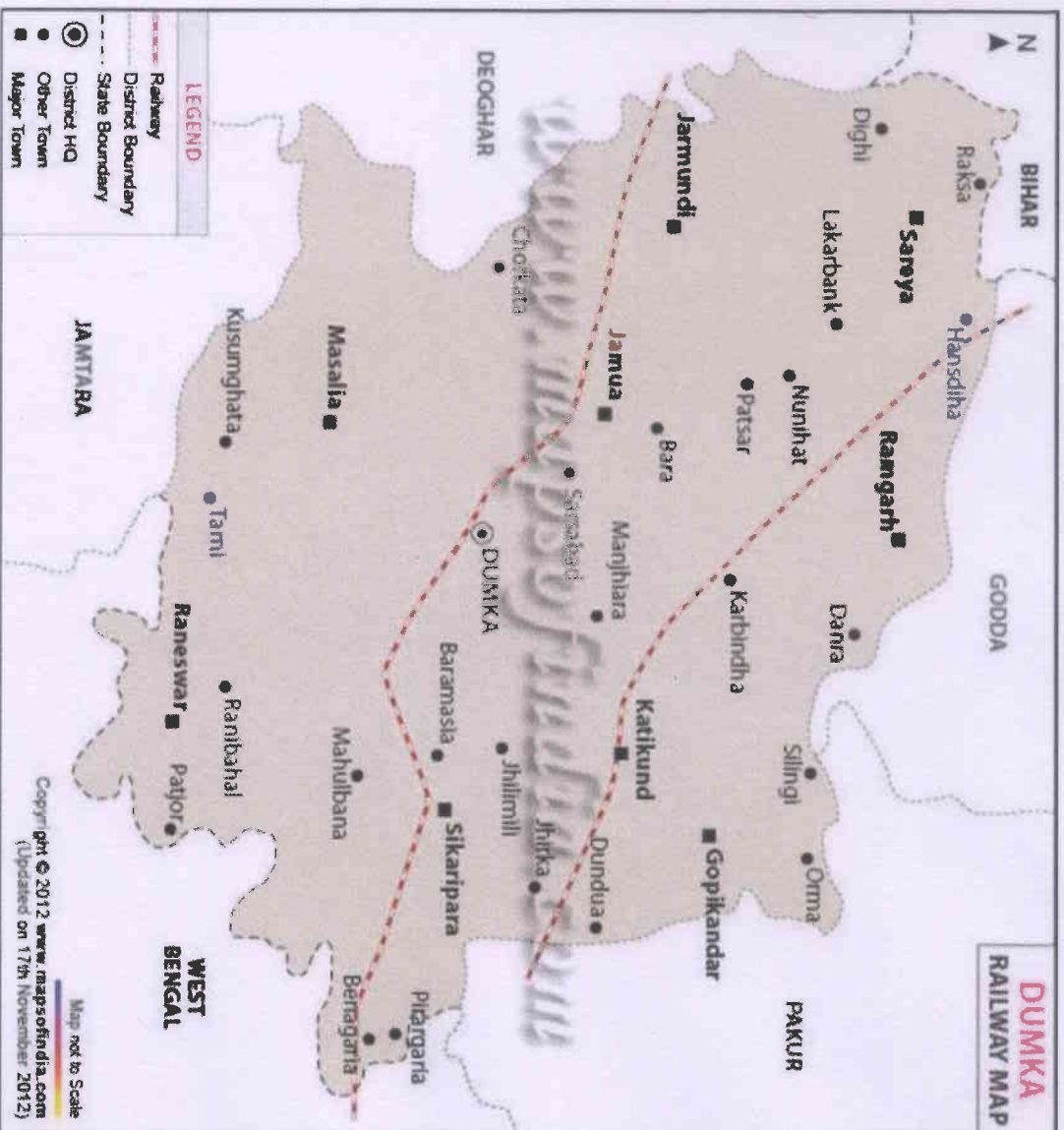


Figure 3-5:- Railway Network Map Dumka District

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

3.6 Floods in district Dumka

The district is drained by the Brahmani, the Baslo, the Mayurakshi, and their numerous tributaries. These streams are ephemeral in nature. Most of these stream courses are structurally controlled. The district is highly dissected with rivers of varying magnitude. More with its tributaries carry the drainage to the western part of the district which finally meet the Bhagirathi River below Murshidabad, Jharkhand. The Brahmani rises in the west of the Dudhua hills in the north of the Dumka district. Dendritic drainage pattern, a typical of hard rock terrain has developed over the district. However, radial drainage is also developed locally in some areas. All these drainages are having rapid surface runoff. Surface flow of most of the rivers is



summer, however there is sub-surface flow for a considerable part of the year, which indicates the effluent nature of the Rivers.

Distribution of the vulnerable and less vulnerable flood prone districts are shown in the below figure no: 4.6.

Map 1.1: Multi hazard prone Area in Jharkhand

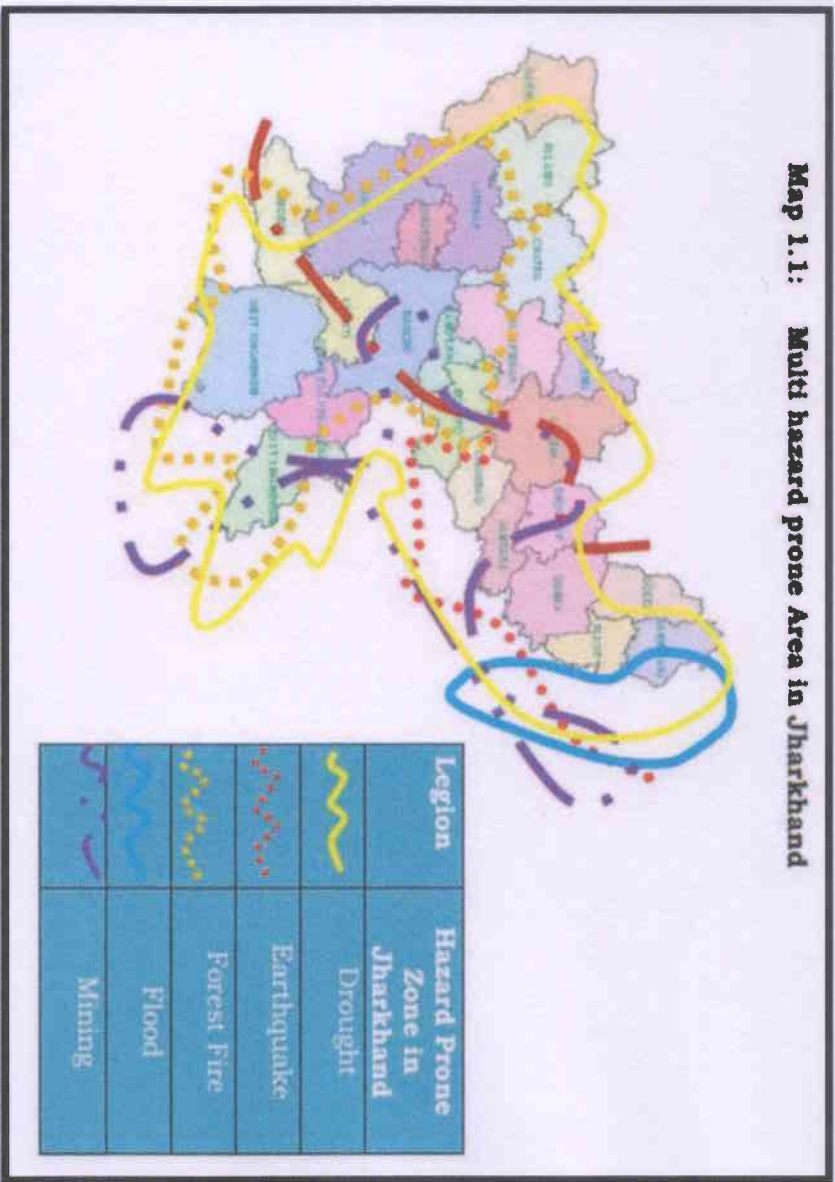


Figure 3-6:- Multi hazard prone area in Jharkhand

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

3.7 Seismicity

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



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DUMKA**

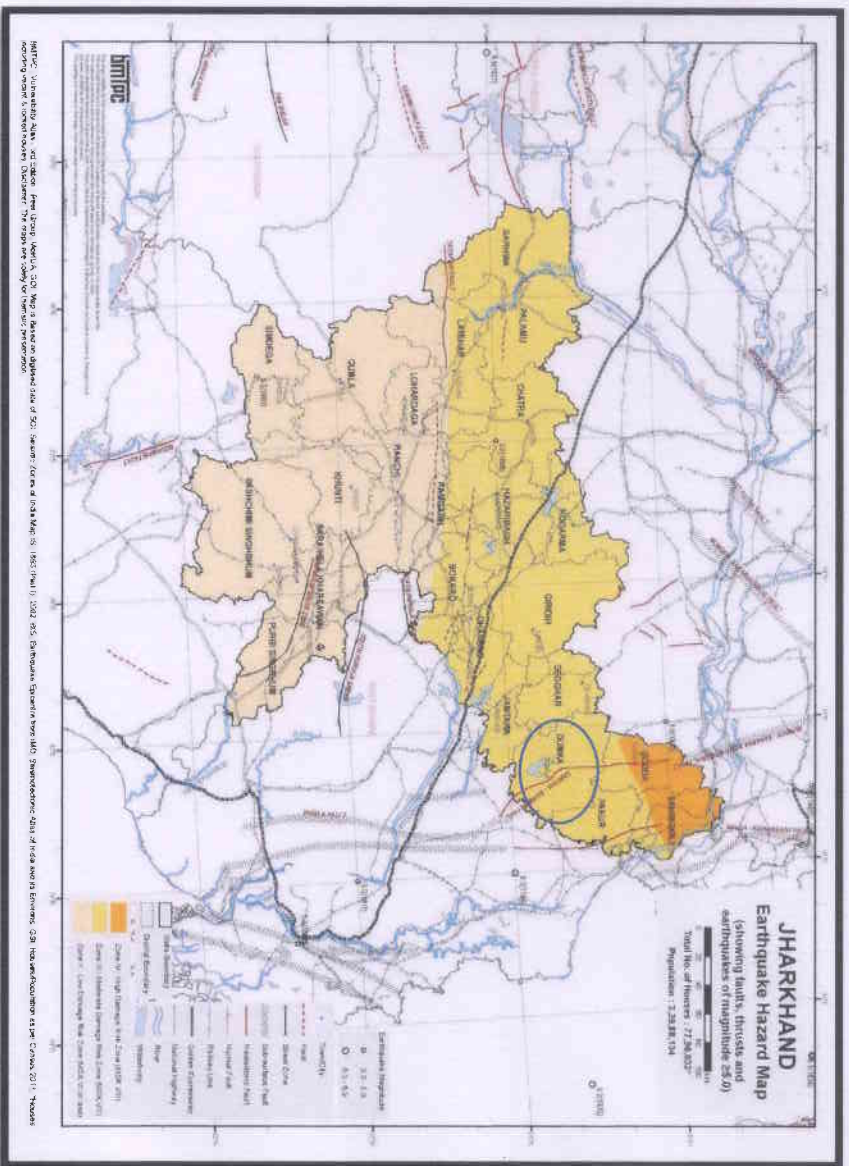


Figure 3-7.- Jharkhand Earthquake Map

3.8 Flora

The flora of the district is characterized by the arborescent species such as *Simul (salmaliamalebanica schott. & endl.)*, *Neem (azadirachta indica)*, *Amlaki (79haracteriz Emblica)*, *lannacaronmandelica Merr. Nankel (cocos Nicotera)*, *Khejur (phoenix Dactylifera L.)*, *Tal (79haracte flabelifer L.)*, *Asvatha (ficus Religiosa L.)*, *Palas (butea frondosa)*, *Krishnachuda (79haracteriz Pulcherrima)*, *Am (79haracter Indica L.)* and shrubby species such as *ashlsheoda (79haracter Pentaphylla Corr.)*, *Pianj. Rasun. Rajanigandha (polyanthes Tuberosa Willd.)*, *Ghentu or Bhat (clerodendroninfortinatum Gaertn.)*, *Kurabaka (barleria Cristata)*, *Gulancha (tinopora Cordifolia)*, *Tulsi (ocimumsanctum)*, *Solanum tor un SW. S Verbascifolium L.*, *trema Orientalis Bl.* *Shiora (sirechus Asper Lour.)* and *Dumtur (ficus Hispida L.)*.

The common aquatic and marsh weeds found in the jheels and swamps of the district are *Keshe (saccharum Spontanum)*, *Bena (79haracteri Squarrosus)*, *Caesulia axillaries Roxb.*, *Ganj or pata-sola (79haracteriz Spiralis L.)*, *Jhangi (hydrilla Verticillataasp.)*, *Pond weed (potamogeten Indicus Roxb. And P. crispus L.)*, *Kesar-dan (jussiaea Repens L.)*, *Kush (eragrostiscynosuroides)*, common *Jhangi (nutriculana Stellaris L.F. and U. flexuosa Vahl.)*, *Pana (lemna Panicostata Hegelm)*, *Wodlihaaritha Wimm.*, *Mootha (79haract Rotundis)*, *ceratopteristhalictroides Brogn.*, *Monochoristhasiaefolia and M. Vaginatis Presl.*, *Water hyacinth (eichornia Crassipes)*, *ottelia Alismoides pers.*, *Bara-pana (pistia Stratiotes L.)*, *Sagittarietigayavanensis H.B.K.*, *Najasgraminea Del.*, *Hogla (lypha Angustata Chub. & Bory)*, *hygrochazaristata Nees*, *Leersiahelvestra and Padma (nelumbiumspeciosum)*.



DISTRICT MINING OFFICER,
DUMKA
79 | Page

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



3.9 Fauna

Wild life and Avi fauna of the area:

A list of animals of the area has been prepared on the basis of local inquiry from the village people and from the available published literatures. The fauna of the area can be grouped in to aquatic and terrestrial as the area mostly comprises of aquatic fauna and the area provides shelter to the terrestrial animals.

Avi fauna: In addition to the wildlife development measures in Dumka Damini Range a vigilant eye is needed to protect the migratory birds in winter visiting the large damsites such as the one of the Mayurakshi River. In winter a large number of migratory ducks and cranes visit the dam. Presently very little protection is affordable to them resulting in gradual decline of winter visitors. The working plan strongly advocates that heavy anti-poaching operations must be taken up in winter to stop shooting of birds.

Mammals: Domesticated mammal species are reported during the field survey. Common grazing animals like cow, goat etc. are noticed in the area. Small mammals like Indian palm squirrel and field mouse are noticed in vicinity of village. Inquiry from village people regarding wild animals reveals that monkey, langurs, Indian hare, fruits bat, Wild boar, Indian Fox, jackal, etc. are often seen in the area.

Reptiles: The reptilians' species commonly reported in buffer zone area are Red Sand Boa, Indian Cobra, King Cobra, Banded Krai, Common Krai, Indian Python, Rat Snake, Russell Viper, and among the lizards Chameleon, Indian House Gecko, Rock Lizard, Monitor Lizard are reported from the village people.

Amphibians: Amphibians are commonly found at the places along the margin of aquatic and terrestrial systems. Due to presence of water bodies like river, nallas, etc. the study area is providing shelter to many amphibian species. Some of the commonly reported species are bufo Melanostictus (common Indian toad), euphytyctiscyanophlyctis (Indian skipper frog), hoplobatrachustigerinus (Indian bull frog) etc.




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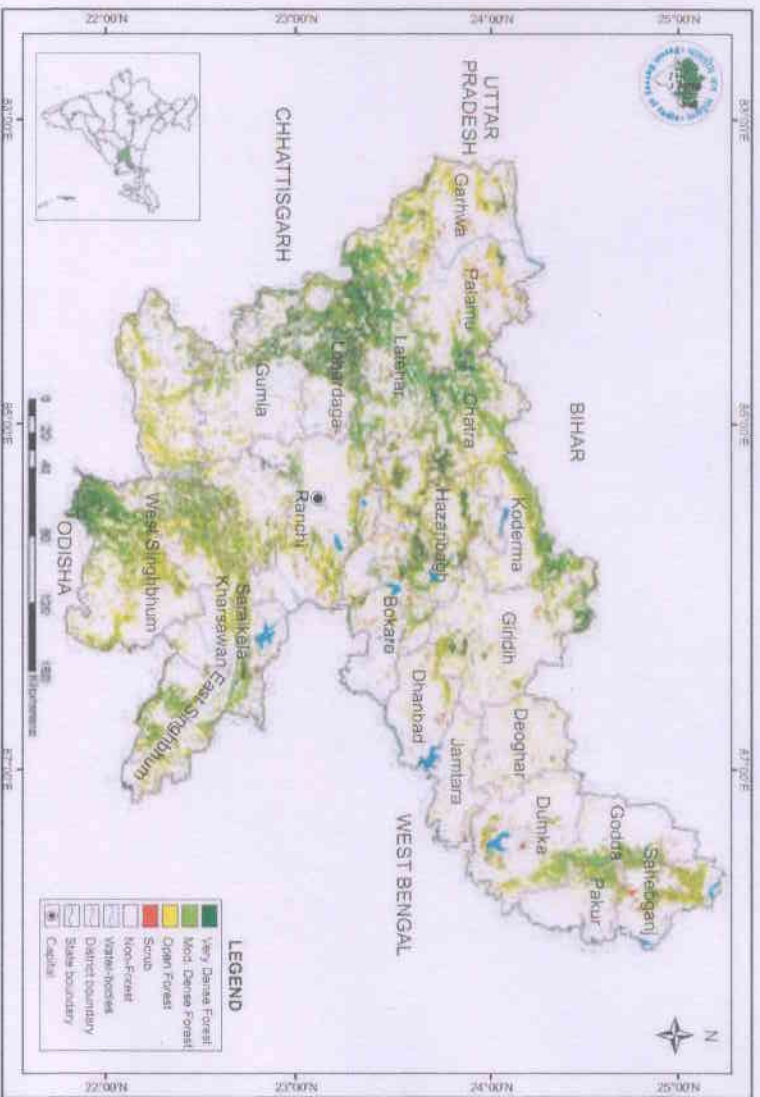


Figure 3-8:- Forest Cover Map of Jharkhand



DISTRICT MINING OFFICER
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District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Dumka District, Jharkhand.



3.10 General Landforms

Topographically, the district is an upland tract with a hilly backbone running from north to south. The general elevation of the area is between 150 m to 640 m amsl. The prominent hills are Rajmahal hills, Rangarh hills, Karakata and Sapchala hills. Among the loftiest peaks are Mahuagachi (528 m), Korcho hills (640 m), Karakata (210 m). The general slope of the district is from North-West to South-East. The hills in many parts are covered with dense forests, while in the valleys small villages surrounded by cultivated clearing are found.

The landscape of the district is to a large extent comprises of long undulation ridges forming rugged and coarsely dissected topography between which runs the drainage channels. The trough in between the undulations is full of rich alluvial soil. Geomorphologically, the district can broadly be divided into three well defined, physically identifiable and genetically significant units:

- (i) the hilly area
- (ii) the rolling country or (Valleys) and
- (iii) the pediplain flat country.

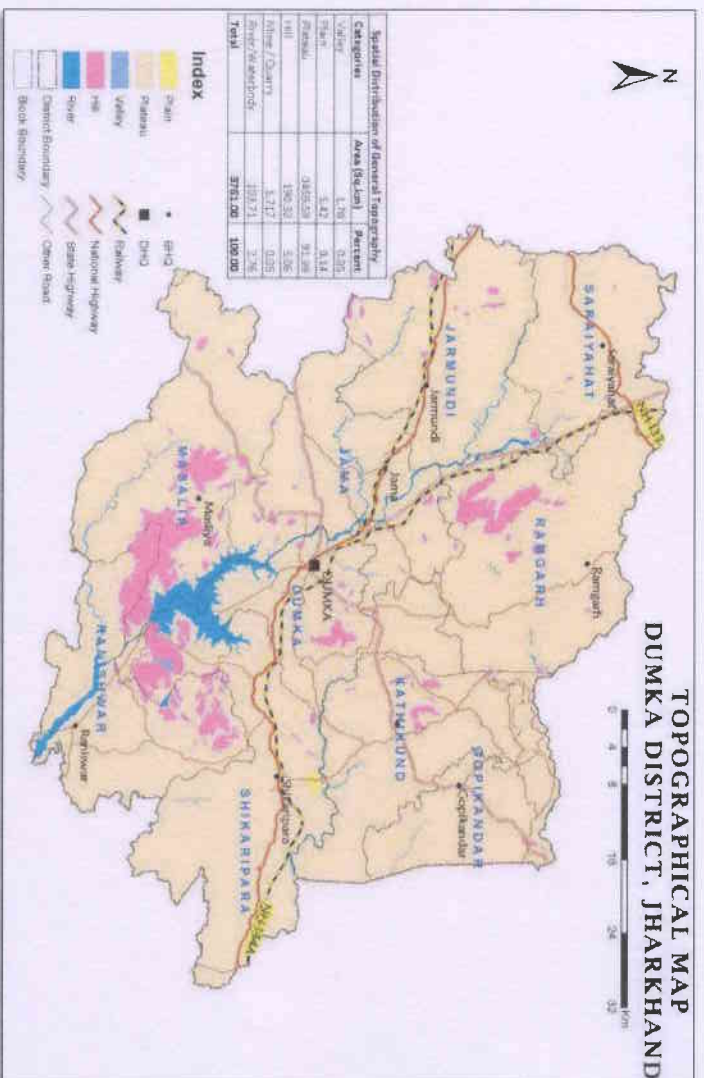


Figure 3-9.- Topographical Map of Dumka District

(Source: JSAC, Jharkhand)

3.11 Soil and rock pattern

Soils in Dumka District has formed as a result of insitu-weathering of crystalline basement. Climate, topography and vegetation have all contributed to the formation of soil. Soils are Sandy



**DISTRICT MINING OFFICER,
DUMKA**

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



loam to clay loam, non-calcareous, slightly to moderately acidic and have location exchange capacity. The soils are generally shallow on the ridges and plateaus and deep in the valleys. The fertility of soil is poor due to extensive erosion, acidic character and low retaining capacity. The soil mapping carried out for Dumka district indicates that in all 31 soil series have been mapped with 24 associations. Out of which 09 mapping units and 15 series have presence on Gneisses. 03 mapping units and 5 series fall on Gondwanas sedimentary formation and 12 mapping units and 11 series fall on Rajmahal Traps. 01 mapping unit falls on Gullied land. The soil map of the total area of Dumka district indicates that 132.30 km² is covered by townships, water bodies, mines, Sand etc. A major area of 2930.23 km² of the district is covered by metamorphic soils while the area of 629.41 km² is covered by Rajmahal trappean soils. An area of 11.19 km² is covered by Gondwanas soils. The metamorphic soils cover area lying in all part of the district except eastern direction. Similarly, the Gondwanas soils are exposed in sporadic patches on Eastern and South-eastern part of district. Rajmahal traps occupy total eastern and SE part of the district.

Soil distribution and classification:

Soil data collected from the field through interpretation, profiling and then chemical/mechanical analysis were placed as per the standards of soil series formation and integrated in to Arc GIS format to form the soil map of the district. Soil map of district Dumka shows that hills occupy North, and NW part. Pediment occupies very small part in the centre of district. Upper Pediplain occupies Central part of the district. Lower Pediplain occupies small part on Western and NW side. Upper plateau occupies Central, Southern and N-E part of district. Lower plateau on Northern and Central part, Valley fills on Northern, Central and Western and southern part with alluvium.

The following different types of Soil occur in the entire district –

Alluvial Soil: All the river channels in this district are covered with alluvial soil of recent origin, deposited over crystalline bed rocks. Alluvial fills are also found in patches away from the river channels. Thickness of these fills depends upon the topographical control. The alluvial material consists mainly of silt and Sand mixed with clay, silty material dominating over clayey material. These are yellowish – grey in colour.

Grey eroded Scarp Soil: This covers almost the entire area as a thin capping over granitic/gneissic rocks.



DISTRICT MINING OFFICER
83
DUMKA

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



Laterite Soil: Pallely, nodular, ferruginous, brownish laterites of Pleistocene age are found to occur as patches. The lateritic soil has been formed by the process of laterization of the weathering material aided by favorable climate and the local topography. They are highly permeable with poor holding capacity. However, laterite formed due to the weathering of 8 Rajmahal trap are generally brown to reddish in colour, porous, pitted and show vernicular cavities, and are good repository of ground water.

Forest Soil: Forest soil is confined to the reserve forest area and has a surface layer of organic matter. The pH value of all the soils varies from 5–6.5 indicating that these soils are acidic in nature. Undulating terrain and porous character of the soil have resulted in soil erosion all over the area.

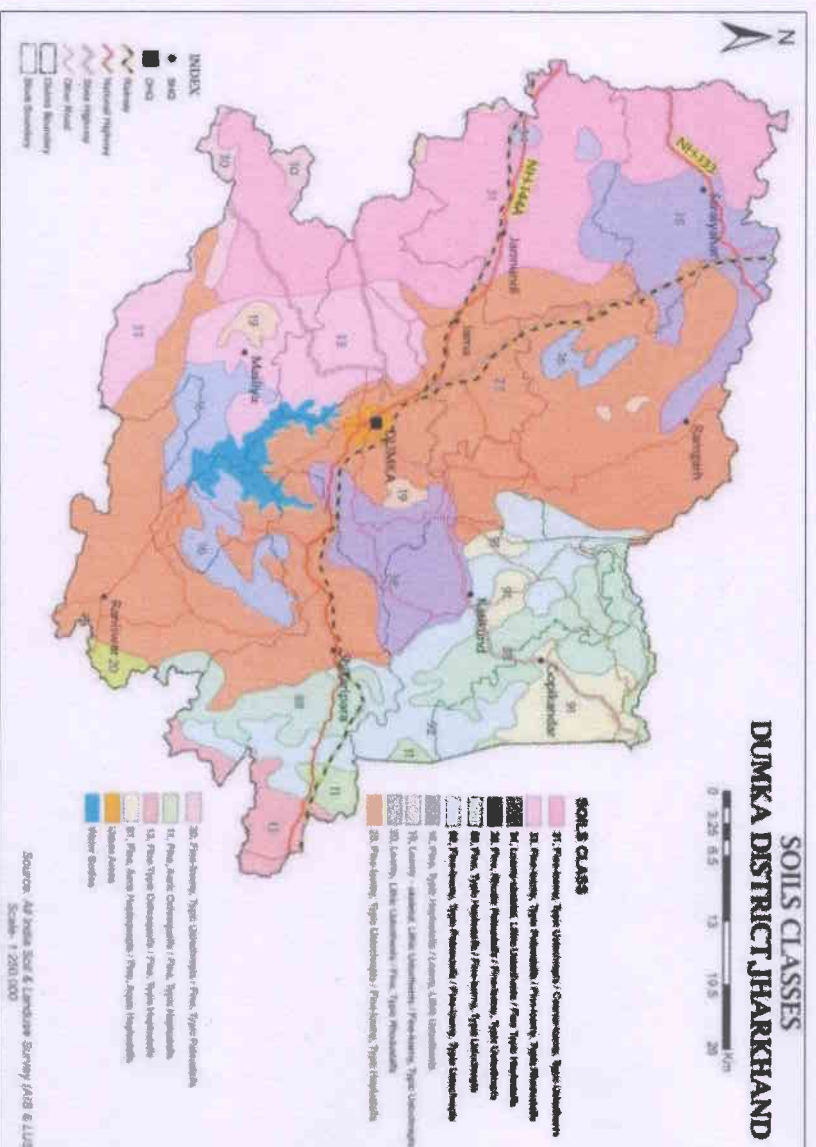


Figure 3-10:- Soil Map of Dumka District

(Source: JSAC, Jharkhand)

3.12 Geomorphology

In the south-east of Dumka upland, south of the Brahmani River, there is a small range of hills known as the Ramgarh Hills. These hills are an extension of the Rajmahal Hills, but are much



DISTRICT MINING OFFICER
DUMKA

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



lesser in elevation and have an undulating configuration. Karakatta (290 m) is the highest peak. Two parallel ranges run on either side of Masanjor reservoir. The range along its western flank is known as the Satgarh group. It comprises the Satbarpahar, the Jhandi pahar (428 m), the Agwandaripahar (416 m), the Rakshi pahar (396 m), the Doman pahar (403 m), and finally merges into the Sapchala hills, where Thilua (402 m) is the highest. In the east of Masanjor reservoir the hills are of comparatively low elevation compared to their western counterpart.

In the northern part of Dumka upland, near Nonihat, there is a group of hills comprising Charnockite rocks. Important peaks are the Makarkenda Pahar (436 m), the Pokhuria Pahar (413 m), the Basko Pahar (440 m), the Ghanti Pahar (467 m), the Baramasia Pahar (412 m), the Lito Pahar (411 m) and the Nandankop Pahar (388 m). Apart from these hill ranges, there are numerous isolated domes and tors scattered across Dumka upland. Among these isolated hills, Lagwa Pahar (456 m), near Nunihat, is the highest. Others important hills include Bandarjora Pahar (394 m), the Harida Pahar (278 m), the Mahulbon Pahar (368 m), Sundari Pahar (312 m), Gumra Pahar (277 m), Kaswa Pahar (275 m), Nakti Pahar (239 m), Jamua Pahar (338 m) etc. Stows consisting of vales and low convex spurs which run in almost all directions except north-east and thus lends a very complicated character to local relief.

Dumka District Geomorphic Units:

The landscape of the district is to a large extent comprises of long undulation ridges forming rugged and coarsely dissected topography between which runs the drainage channels. The trough in between the undulations is full of rich alluvial soil. Geomorphologically, the district can broadly be divided into three well defined, physically identifiable and genetically significant units:

- (i) The hilly area
- (ii) The rolling country or (Valleys) and
- (iii) The pediplain flat country

Distribution of relative relief in Dumka upland

- i. Very low relative relief (< 60 m)



DISTRICT MINING OFFICER
DUMKA

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



This category comprises 2757 Km² (73.32 %) area and is the predominant category in Dumka upland. It prevails in north, west, central and southern part of Dumka upland except where residual hills interrupted the monotony of the landscape.

The following five categories of relative relief occur in close proximity.

1. Low relative relief (60-120 m)
2. Moderately low relative relief (120-180 m)
- (iv) Moderate relative relief (180-240 m)
- (v) Moderately high relative relief (240-300 m)
- (vi) High relative relief (> 300 m)

The landscape of the district is to a large extent comprises of long undulated ridges forming rugged and coarse dissected topography between which runs the drainage channels. The trough in between the undulations is full of rich Alluvial Soil.



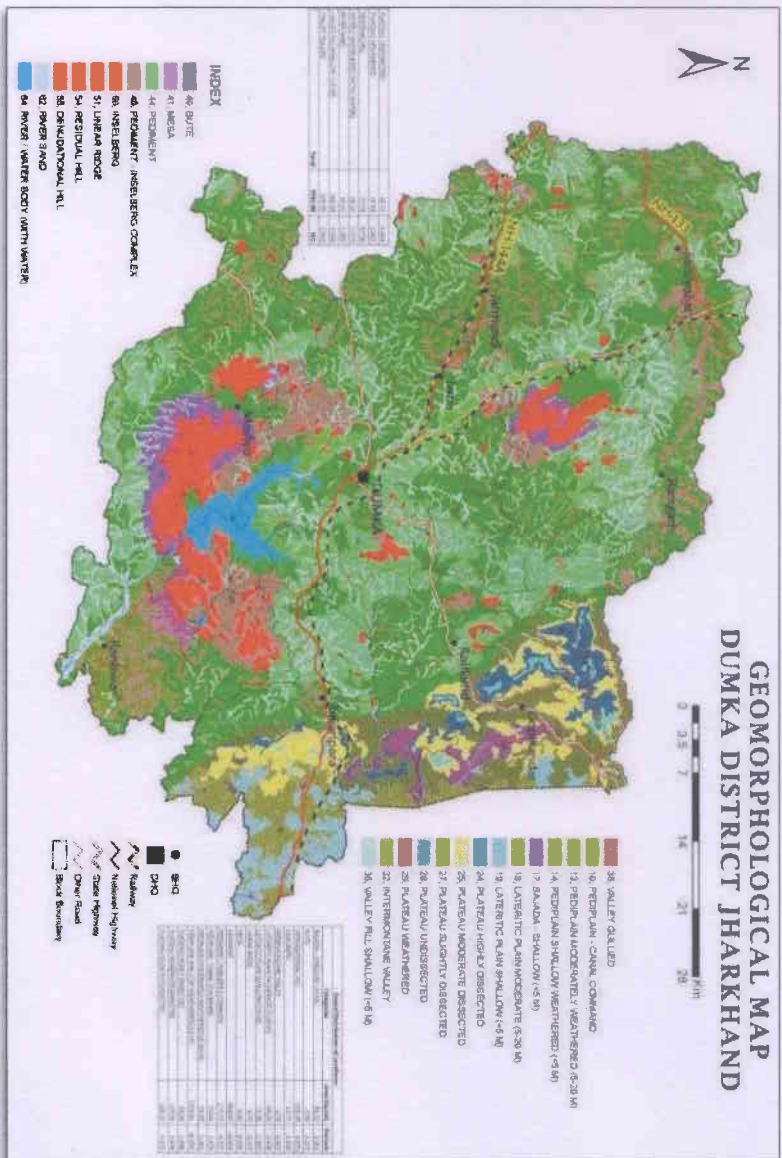


Figure 3-11 :- Geomorphological Map Dumka District

(Source: JSAC, Jharkhand)



DISTRICT MINING OFFICER
DUMKA
Page

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



4 GEOLOGY & MINERAL WEALTH OF THE DISTRICT

4.1 Geology

Geologically, Dumka district (GSI) is represented by Chhotanagpur Granite-Gneiss of Archaean age to Proterozoic and Eastern Ghat Super Group of Archaean age, which are overlain by Gondwana Super Group, Rajmahal Basaltic Lava Flows (Upper Jurassic to Lower Cretaceous age) with intertrappean beds and at places Laterites. The Chhotanagpur Gneissic Complex is largely represented lithological unit in the area and covers the major part of the district uninterrupted. They form more or less gently undulating plains and high grounds pediments and buried pediments, seldom giving rise to small hillocks mounds. They are mostly Biotite Gneisses and Granite Gneisses and in general coarse grained with porphyroblastic texture and traversed by Pegmatite and Quartz vein of various dimensions. It contains enclave of Amphibolites and Mica Schists. These rocks are highly folded and have very steep foliation dip. These Gneissic rocks have been intruded by numerous dykes. Eastern Ghat Super Group is represented by Patches of acid to basic Charnockite and Khondalite/Garnet Sillimanite-Biotite Gneiss. The 88characteriz formations are overlain by Gondwana formations. Gondwanas are represented by Barakar, Talchir and Dubrajpur formations in the form of a strip running roughly in the NW-SE direction. However, isolated patches of this formation are also found to occur in the Central part of the district. Talchir formations consist of Sandstone and Shales. Barakar formation consists of white to fawn colored coarse grained Sandstone, Grits with occasional Conglomerates and Carbonaceous Shales, thin lenticles and streaks of Coal are found in this formation. Common plant fossils occurring in Barakar Shales include Gangemopteris, Cyclopteris, Glossopteris Indica and Vertebraria Indica. Dubrajpur formations consist of Sandstone and Shales. The Precambrian formations/Gondwana formations are further overlapped by Rajmahal Traps consists of Basaltic Lava flows with sedimentary intertrappeans. The Basaltic rocks are hard and fine to medium grained. Some of the Lava flows are vesicular and cavities being filled by Calcite and Chalcedony. The non-vesicular Lava flows are hard, tough, compact and fine to medium grained in nature. The vesicular types are comparatively soft and break easily. They are greenish to dark in colour with number of flows not clearly delineated in this district. In general, the Rajmahal traps show vertical to horizontal joints trending E-W and N-S. Typical columnar joints are also common. These rocks are weathered with characteristic spherical exfoliation which gives rise to large rounded boulders as the out crops. It has been proved that Basalts too are productive when either weathered or fractured.

Approved

The Laterites
DISTRICT MINING OFFICER
DUMKA
Page

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



found in patches over Rajmahal traps. The Alluvium patches are generally seen along major streams. Narrow, discontinuous patches of Alluvium particularly in Granitic country are identified. They comprise medium to coarse grained Sand associated with silt and clay. Occasionally calcareous nodules are also found to occur. They are light grey to brownish colour. The thickness of the Alluvium varies from place to place and is largely controlled by topography of the basement crystallines. In the district, the rocks are highly deformed and metamorphosed. The exposure of Granite and other associated rocks show intricate folding. Based on morphotectonic analysis, the area has undergone several phases of tectonic deformations which leads to various sets of fractures, fissures, faults etc which leads to lineaments. Based on lineament study of the area, various sets of fractures have been identified. The general geological succession as encountered in Dumka district (As per GSI) is given below –

Lithology	Formation	Age
Alluvium	Quaternary	Recent
Laterite	Laterite	Cenozoic
Rajmahal trap & Intertrappeans	Rajmahal	Middle Jurassic to Cretaceous
Sandstone and shale	Dubraipur	Upper Gondwana (Triassic to Lower Jurassic)
.....Unconformity.....		
Silt stone, sandstone and shale with Coal seams	Barakar	Lower Gondwana (Carboniferous to Permian)
Shale, sandstones and Conglomerate	Talchar	
.....Unconformity.....		
Granite gneiss, biotite-Gneiss, schists, amphibolites, Hornblend schist, pegmatite, quartz veins	Chotanagpur Granite-Gneissic Complex & Unclassified metamorphites	Archean to proterozoic
Charnockites and Khondalites	Eastern Ghat Super Group	Archean

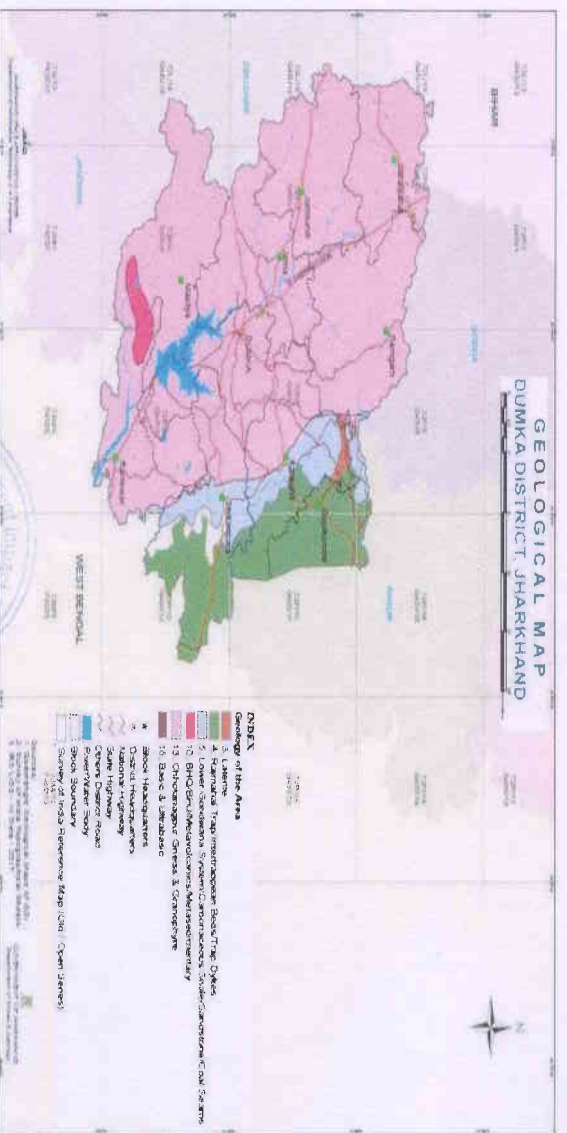


Figure 4.1 - Geological Map Dumka District Jharkhand



**DISTRICT MINING OFFICER,
DUMKA**

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

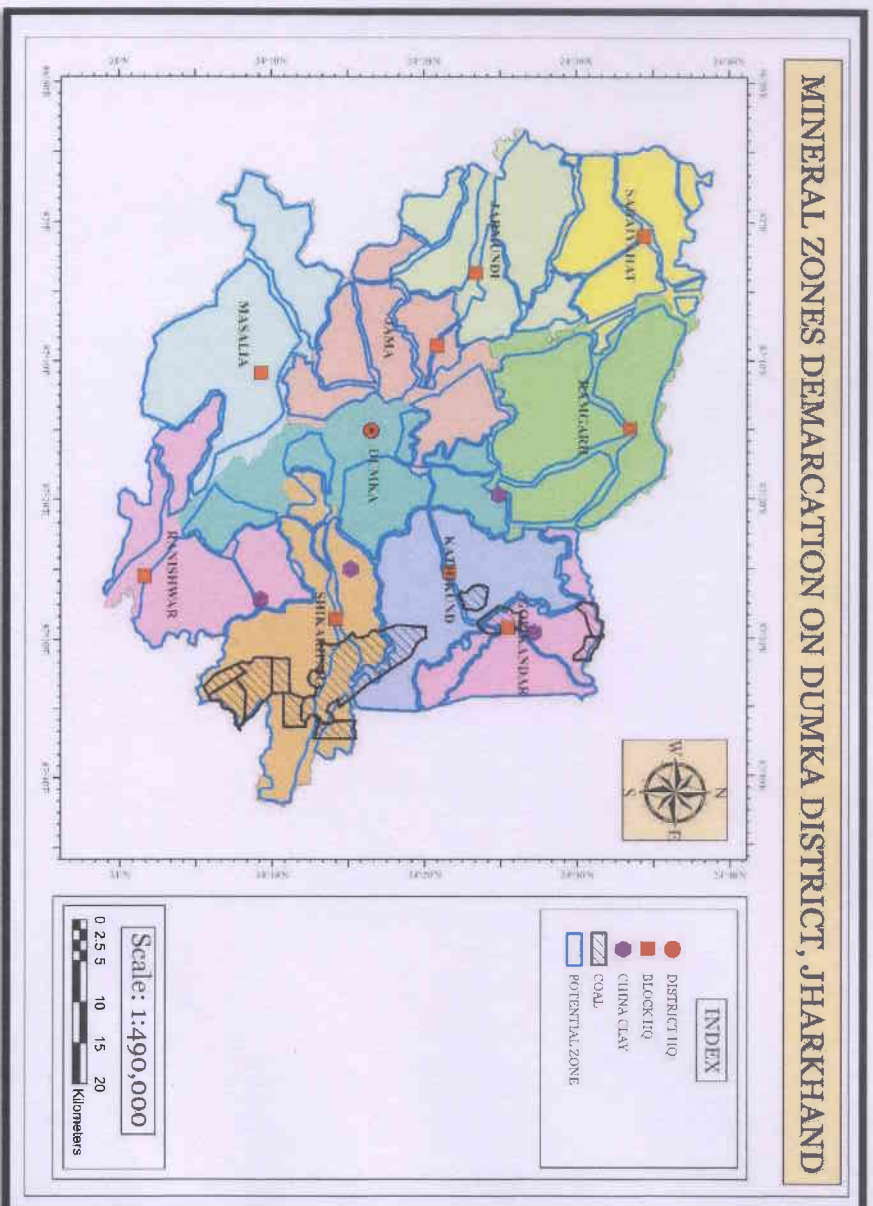


Figure 4-2:- District Resource Map, Dumka, Jharkhand

4.2 Mineral Resources

Dumka district has major and minor Minerals abundance.

The Economic mineral reported from the district are Granite Gneiss, Amphibolite, Rajmahal Trap- Basalt (Rajmahal Formation), Sandstone, Shale & Conglomerate, Quartzite and Quartz Schist, China Clay etc. is found here.

➤ GRANITE GNEISS:

Granite gneiss is a rock consisting of an orthogenesis or paragenesis having the composition of a granite. Gneiss is an old German word meaning bright or sparkling. It is a high-grade metamorphic rock, meaning that it has been subjected to higher temperature and pressure than Schist. It is formed by the metamorphosis of Granite or sedimentary rock. Gneiss displays distinct foliation, representing alternating layers composed of different minerals. However, unlike Slate and Schist, Gneiss does not preferentially break along planes of foliation because



**DISTRICT MINING OFFICER,
DUMKA**

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



less than 50% of the minerals formed during the metamorphism are aligned in thin layers. Because of the coarseness of the foliation, the layers are often subparallel, i.e. they do not have a constant thickness.

Mineralogy – The granite gneiss includes several varieties: banded Gneiss, Schistose Granite, porphyroblastic Gneissose Granite and Granodiorite.

Grain size – Medium to coarse grained; can see crystals with the naked eye.

Hardness – Hard.

The Granite Gneiss is full of mafic enclaves at places. The Gneiss is composed of Quartz, Microcline, Plagioclase (An20-An44), Biotite, Hornblende and other accessory minerals but lacks in Muscovite. Felsic minerals such as Feldspar (Orthoclase, Plagioclase) and Quartz generally form the light-coloured bands; mafic minerals such as Biotite, Pyroxene (Augite) and Amphibole (Hornblende) generally form the dark coloured bands.

Texture – Foliated, foliation on a scale of cm or more.

Colour – Variable – generally alternating lighter and darker sub-parallel discontinuous bands. Garnet porphyroblasts common.

Occurrence – The Granite Gneiss complex is a composite mass consisting mainly of Granite Gneiss, Migmatites and massive Granite with enclaves of para and orthometamorphics, dykes of Dolerite and innumerable veins of Pegmatite, Apatite and Quartz. Because of repeated folding, high grade regional metamorphism and profuse granitic activities, the elucidation of the stratigraphic succession in the area poses a great problem.

➤ **AMPHIBOLITE:**

Amphibolite is a grouping of rocks composed mainly of Amphibole and Plagioclase Feldspar with little or no Quartz. It is typically dark-colored and heavy, with a weakly foliated or schistose (flaky) structure. The small flakes of black and white in the rock often give it a salt-and-pepper appearance.

Amphibolites need not be derived from metamorphosed mafic rocks. Because metamorphism creates minerals entirely based upon the chemistry of the protolith, certain 'dirty marls' and volcanic sediments may actually metamorphose to an Amphibolite assemblage. Deposits containing Dolomite and Siderite also readily yield Amphibolites (Tremolite-Schists, Grunerite-



91 | Page
DISTRICT MINING OFFICER,
DUMKA

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



Schists and others) especially where there has been a certain amount of contact metamorphism by adjacent Granitic masses. Metamorphosed Basalts create ortho-amphibolites and other chemically appropriate lithologies create para-amphibolites. Tremolite, while it is a metamorphic Amphibole, is derived most usually from highly metamorphosed ultramafic rocks, and thus Tremolite-Talc Schists are not generally considered as 'Amphibolites'. A holocrystalline plutonic igneous rock composed primarily of Hornblende Amphibole is called a Hornblendite, which is usually a crystal cumulate rock. Igneous rocks with >90% Amphiboles, which have a Feldspar groundmass, may be a Lamprophyre.

> **RAJMAHAL TRAP- BASALT (RAJMAHAL FORMATION):**

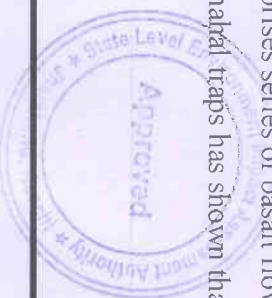
By definition, Basalt is dark-coloured aphanitic (fine-grained) igneous rock with generally 45-53% Silica (SiO₂) and less than 10% Feldspathoid by volume, and where at least 65% of the rock is Feldspar in the form of Plagioclase. This is as per definition of the International Union of Geological Sciences (IUGS) classification scheme. It most commonly forms as an extrusive rock, such as a lava flow, but can also form in small intrusive bodies, such as an igneous dyke or a thin sill.

Mineralogy:

Essential minerals are Augite, Calcic-Plagioclase and Iron oxide. Usually Olivine is also present. Labradorite Feldspar is the chief constituent of the groundmass where as more Calcic-Plagioclase (Bytownite or Anorthite) may occur as phenocrysts.

Geological formation:

The Rajmahal formation exposed in the Rajmahal area is represented by 450 to 550m thick predominantly basaltic lava flows (4-15 individual flows) intercalated with fresh-water sedimentary beds. This formation is well developed in the Rajmahal hills of Jharkhand, Bihar and West Bengal. It is made up of extensive lava flows of basic composition, called the Rajmahal Traps. The Basalts are intercalated with Claystone, Siltstone, some of which are silicified and porcellanoid. The Rajmahal formation can be divided into four units: lower lava flows with intercalated unfossiliferous sedimentary beds from the lowermost unit. The second unit comprises five to six lava flows with four to five sedimentary beds composed of Tuff, Claystone, Siltstone, etc. The fourth unit comprises series of basalt flows with or without sedimentary beds. The radiometric dating of the Rajmahal traps has shown that they are of Albian age.



**DISTRICT MINING OFFICER,
DUMKA**

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



> SANDSTONE, SHALE & CONGLOMERATE:

Sandstone is a clastic sedimentary rock composed mainly of sand-sized (0.0625 to 2 mm) mineral particles or rock fragments. It is clastic in origin (as opposed to either organic, like Chalk and Coal, or chemical, like Gypsum and Jasper). They are formed from cemented grains that may either be fragments of a pre-existing rock or be 93characterized crystals. The cements binding these grains together are typically Calcite, Clays, and Silica. Grain sizes in Sand are defined (in geology) within the range of 0.0625 mm to 2 mm (0.002–0.079 inches). Clays and sediments with smaller grain sizes not visible with the naked eye, including Siltstones and Shales, are typically called argillaceous sediments; rocks with larger grain sizes, including Breccias and Conglomerates, are termed rudaceous sediments.

Mineralogy:

The chemical compounds like Silicon dioxide or Silica, Calcium carbonate, and Iron dioxide act as natural cementing agents to hold together the Sand in the form of a rock that we know by the name of Sandstone. Chemically, Sandstone is an absolutely impervious and mono-mineralic rock that is primarily composed of Quartz.

Shale is a fine-grained, clastic sedimentary rock composed of mud that is a mix of Flakes of Clay minerals and tiny fragments (silt-sized particles) of other minerals, especially Quartz and Calcite. Shale is characterized by breaks along thin laminae or parallel layering or bedding less than one centimeter in thickness, called fissility. It is the most common sedimentary rock.

Conglomerate is a coarse-grained clastic sedimentary rock that is composed of a substantial fraction of rounded to sub angular gravel-size clasts, e.g., granules, pebbles, cobbles, and boulders, larger than 2 mm (0.079 in) in diameter. Conglomerates form by the consolidation and lithification of Gravel. Conglomerates typically contain finer grained sediment, e.g., either Sand, Silt, Clay or combination of them, called matrix by geologists, filling their interstices and are often cemented by Calcium carbonate, Iron oxide, Silica, or hardened Clay. The size and composition of the gravel-size fraction of a Conglomerate may or may not vary in composition, sorting, and size. In some Conglomerates, the gravel-size class consist almost entirely of what were Clay clasts at the time of deposition. Conglomerates can be found in sedimentary rock sequences of all ages but probably make up less than 1 percent by weight of all sedimentary rocks. In terms of origin and depositional mechanisms, they are closely related to sandstones and




DISTRICT MINING OFFICER
DUMKA

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



exhibit many of the same types of sedimentary structures, e.g., tabular and trough cross-bedding and graded bedding.

Properties:

The key characteristic of Conglomerate is the presence of readily visible, rounded clasts bound within a matrix. The clasts tend to feel smooth to the touch, although the matrix can be either rough or smooth. The hardness and color of the rock is highly variable.

➤ QUARTZITE AND QUARTZ SCHIST:

Quartzite is a hard, non-foliated metamorphic rock which was originally pure Quartz Sandstone Sandstone is converted into Quartzite through heating and pressure usually related to tectonic compression within orogenic belts. Pure Quartzite is usually white to grey, though Quartzites often occur in various shades of pink and red due to varying amounts of iron oxide (Fe_2O_3). Other colors, such as yellow, green, blue and orange, are due to other minerals. When Sandstone is cemented to Quartzite, the individual Quartz grains recrystallize along with the former cementing material to form an interlocking mosaic of Quartz crystals. Most or all of the original texture and sedimentary structures of the Sandstone are erased by the metamorphism. The grainy, sandpaper-like surface becomes glassy in appearance. Minor amount of former cementing materials, iron Oxide, Silica, Carbonate and Clay, often migrate during recrystallization and metamorphosis. This causes streaks and lenses to form within the quartzite. Ortho-Quartzite is a very pure Quartz Sandstone composed of usually well-rounded Quartz grains cemented by Silica. Ortho-Quartzite is often 99% SiO_2 with only very minor amounts of Iron oxide and trace resistant minerals such as Zircon, Rutile and Magnetite. Although few fossils are normally present, the original texture and sedimentary structures are preserved. The term is also traditionally used for Quartz-cemented Quartz Arenites, and both usages are found in the literature. The typical distinction between the two (since each is a gradation into the other) is a metamorphic Quartzite is so highly cemented, diagenetically altered, and metamorphosed so that it will fracture and break across grain boundaries, not around them. Quartzite is very resistant to chemical weathering and often forms ridges and resistant hilltops. The nearly pure Silica content of the rock provides little for Soil; therefore, the Quartzite ridges are often bare or covered only with a very thin layer of Soil and (if any) little vegetation.

Quartz Schist is a metamorphosed schistose rock composed essentially of Quartz often with some mica or tourmaline or both. Schist is a medium-grade metamorphic rock. Quartz often occurs in



**DISTRICT MINING OFFICER,
DUMKA**

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



drawn-out grains to such an extent that a particular form called Quartz Schist is produced. Schist forms at a higher temperature and has larger grains than Phyllite.

Brick clay: -

Clays and clay minerals occur under a fairly limited range of geological conditions and are produced by weathering of silicate minerals containing calcium, magnesium, sodium, or potassium reacting with carbonic acid, carbonates, and bicarbonates. These soluble products are removed by ground water, while the remaining elements, aluminium, silicon and oxygen combine with water to produce stable clay minerals. The environment of formation includes soil horizons, continental and marine sediments, geothermal fields, and weathering rock formations. Extensive alteration of rocks to clay minerals can produce relatively pure clay deposits that are of economic interest. Clay formed at the site of the parent rocks is known as primary or residual clay; the one carried away or transported and deposited elsewhere is known as secondary clay. For obvious reasons, the former is purer with less impurity (5%-15%), while the latter may contain mica, quartz, and iron oxide as impurities. More than 01 brick factories are currently running in the Dumka district.




DISTRICT MINING OFFICER
DUMKA | Page



5 DRAINAGE SYSTEM & IRRIGATION PATTERN

5.1 Drainage System

The district is drained by the Brahmani, the Baslo, the Mayurakshi, and their numerous tributaries. These streams are ephemeral in nature. Most of these stream courses are structurally controlled. The district is highly dissected with rivers of varying magnitude. More with its tributaries carry the drainage to the western part of the district which finally meet the Bhagirathi River below Murshidabad, Jharkhand. The Brahmani rises in the west of the Dudhua hills in the north of the Dumka district. Dendritic drainage pattern, a typical of hard rock terrain has developed over the district. However, radial drainage is also developed locally in some areas. All these drainages are having rapid surface runoff. Surface flow of most of the rivers dries up during summer, however there is sub-surface flow for a considerable part of the year, which indicates the effluent nature of the rivers.

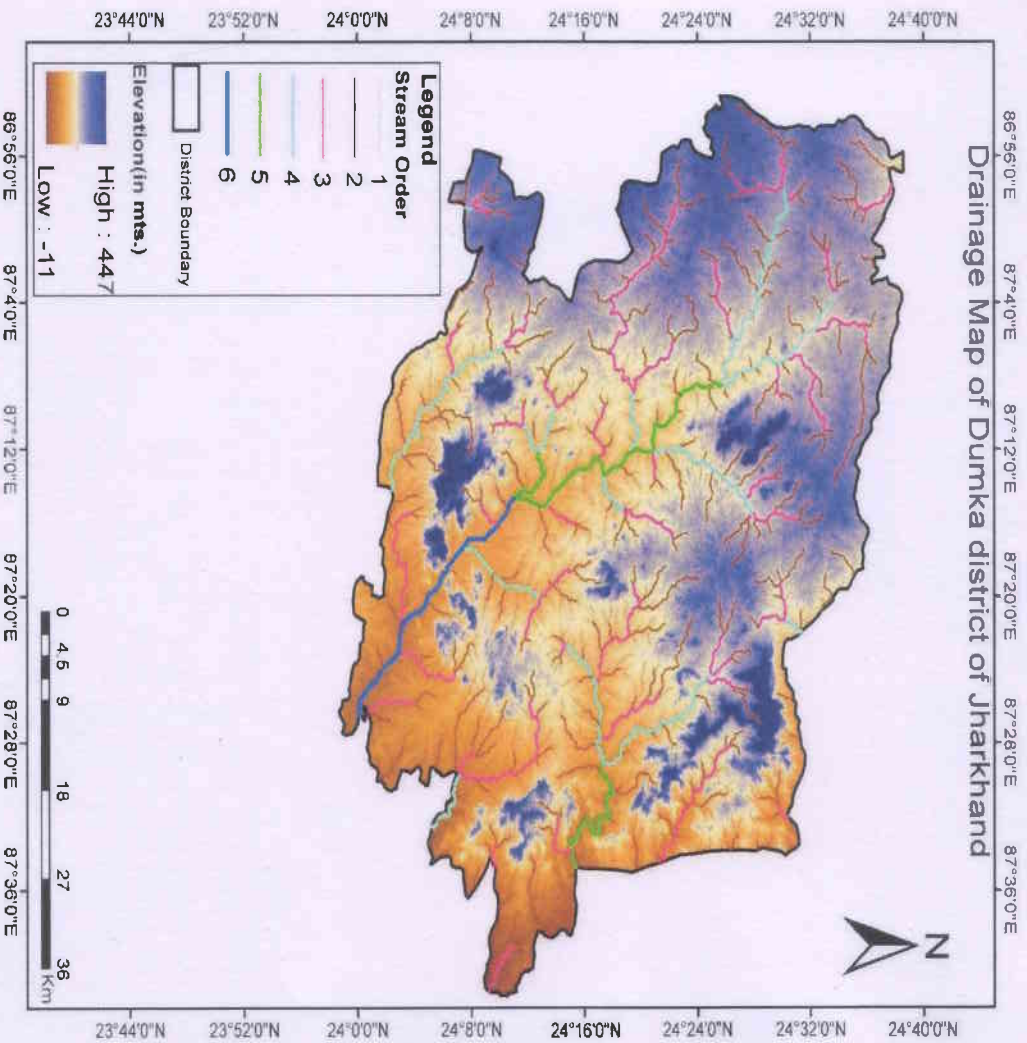


Figure 5-1:- Drainage map of Dumka district

(Source: CGWB, Dumka)



DISTRICT MINING OFFICER
DUMKA Page

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



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

Sl. No.	Name of the River	Area Drained (km ²)	% Area Drained in the District
1	Mayurakshi	8.44	0.23
2	Brahmani	2.78	0.074
3	Tepra	5.03	0.134
4	Bansloi	5.28	0.14
5	Nunbil	4.85	0.129
6	Dhobai	1.68	0.045
7	Mathara	5.30	0.14

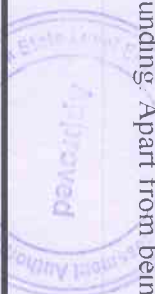
Table 5-2:- Salient features of important River & Streams

Sl. No.	Name of the River	Total Length in the district (in km)	Place of Origin	Altitude at Origin (in m)
1	Mayurakshi	20	Masanjor	125
2	Brahmani	29.6	Kandarpani	146
3	Tepra	41.5	Berhagal	251
4	Bansloi	39.6	Sidhbank	191
5	Nunbil	40	Kumirdaha	178
6	Dhobai	16.4	Patharia	194
7	Mathara	32.8	Dhekhagongha	175

5.2 Irrigation Pattern

Larsen & Toubro (L&T) has been awarded an important irrigation project by the Jharkhand Government. The project aims to provide water from the Siddheshwari River to irrigate 22,283 Hectares of Culturable Command Area (CCA) in the Dumka district of Jharkhand. The survey, design, and construction of a barrage across the river are all part of the project's scope.

Agriculture is the major occupation of the rural population of the district. Since the density of population is high, there is acute pressure on land for agriculture use but the land available for cultivation is limited because of rugged and hilly geomorphological set-up. There is only one major irrigation project in the district i.e. Mayurakshi River valley Project located at Masanjore. As per irrigation data for the year 2016-17, only 410.03 Hectare of land of the district is being irrigated from this project. In addition to this project, there are ponds and few lift irrigation schemes operating in this district irrigating some hectare of land. The most common ground water source is the dug well, but this is not a very dependable source of irrigation. The major part of the district being rocky in nature, it is difficult to dig wells. The undulating nature of land makes it possible to store rain water by bunding. Apart from being dependent upon rains, these



DISTRICT MINING OFFICER,
DUMKA

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



are by no means adequate. The result is that failure of rains invariably involves failure of crops except in small pockets. Block wise number of irrigation structure and source wise irrigation data of the district is given in table -

Table 5-3:- Block wise number of Irrigation Structure of Dumka district (2016-17)

Sr. No.	Name of Block	Surface water			Ground water	
		Canal	Pond	LI	Dug well	
1	Dumka	1	340	7	445	
2	Jama	..	336	9	438	
3	Jamundi	..	314	5	523	
4	Saraiyahat	..	361	3	447	
5	Ramgarh	..	371	5	420	
6	Gopikandar	..	378	5	488	
7	Kathikund	..	398	7	411	
8	Shikaripara	..	356	8	386	
9	Raneshwar	2	344	15	399	
10	Masaliya	..	437	17	453	
Total		3	3635	81	4410	

Table 5-4:- Source wise Irrigation data of Dumka district (Area in Hectare)

Sr.No.	Name of Block	Surface water			Ground water		Other sources	Total
		Canal	Pond	LI	Dug, well			
1	Dumka	183.25	315.30	68.25	227.26	265.50	1059.56	
2	Jama	--	1048.20	72.15	229.38	298.56	1648.29	
3	Jamundi	--	693.17	414.46	1075.66	192.48	2375.77	
4	Saraiyahat	--	1714.30	319.85	1081.40	357.62	3472.77	
5	Ramgarh	--	1621.10	49.75	705.22	757.61	3133.60	
6	Gopikandar	--	330.70	73.65	339.77	36.29	707.83	
7	Kathikund	--	278.23	38.98	191.98	69.90	578.09	
8	Shikaripara	--	462.24	109.45	504.90	153.41	1230.00	
9	Raneshwar	226.78	418.70	95.45	531.22	149.85	1422.00	
10	Masaliya	--	734.37	235.15	725.55	211.18	1906.25	
Total		410.03	7616.31	1477.14	5612.34	2492.40	17534.16	

(Source: District Statistics Office, Dumka)



DISTRICT MINING OFFICER,
DUMKA

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



5.3 Cropping Pattern

Paddy is the major crop of the district. Apart from paddy, maize, gram, oil seeds, pulses and vegetables form the main crop of the district. Wheat has also been started to be sown on a limited scale wherever some irrigation facilities are available. Area under crop for the year 2016-17 of the district is presented in table –

Table 5-5:- Cropping Pattern of Dumka district (2016-17) (Area in hectare)

Sr. No.	Block	Major Crops					
		Paddy	Wheat	Gram	Maize	Pulses	Vegetable
1.	Dumka	5324.29	98.90	60.56	594.91	124.66	214.61
2.	Jama	8245.63	390.44	32.17	934.57	284.00	338.45
3.	Jammundi	6740.95	463.46	54.90	651.02	489.24	710.47
4.	Saraiyahat	5699.71	518.52	30.61	914.58	222.34	930.16
5.	Masaluya	9063.37	238.91	32.31	2001.30	761.86	467.39
6.	Raneshwar	12653.00	321.47	176.30	184.75	302.42	191.34
7.	Shikaripara	6224.07	311.81	129.56	665.89	111.80	120.74
8.	Ramgarh	7878.75	554.22	64.85	1507.92	504.35	686.67
9.	Kathikund	5395.55	156.98	50.79	665.86	182.98	87.38
10.	Gopikandar	3096.91	186.31	38.10	695.88	267.78	119.83
Total		70322.23	3241.02	670.15	8816.68	3251.43	3867.04



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DUMKA, JHARKHAND



6 LAND UTILIZATION PATTERN OF THE DISTRICT

6.1 Land Utilization Pattern

The district has seen constant migration of aboriginals and plain dwellers from other part of the State, who has contributed to the various uses of land and its resources. There is dominance of cultivation over other uses of land in plains whereas the significance of forest in high land attains almost the same significance as that of agricultural land use. The forests are store house of manifold resources like fuel, timber, herbs and are source of raw materials from farm to factories. Moreover, forests are linked with the culture and socio-economic conditions of the aborigines. Their survival depends on the existence of forests as they are rain bringer, soil binder and pasture preserver. Block wise land utilization data of the Dumka district is given in table – 8.1.

Table 6-1:- Land Use Pattern of Dumka District (Figure in Hectare)

Class Name	Area (Ha)	Area (%)
Built-up Land	5803.3	1.54
Agricultural Land	84271.3	22.34
Agricultural Fallow Land	222240	58.90
Open Land	7200.67	1.91
River/Water Bodies	3672.39	0.97
Riverbed	2913.77	0.77
Vegetation	13741.4	3.64
Forest	37453.00	9.93
Total	377295.83	100.00



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

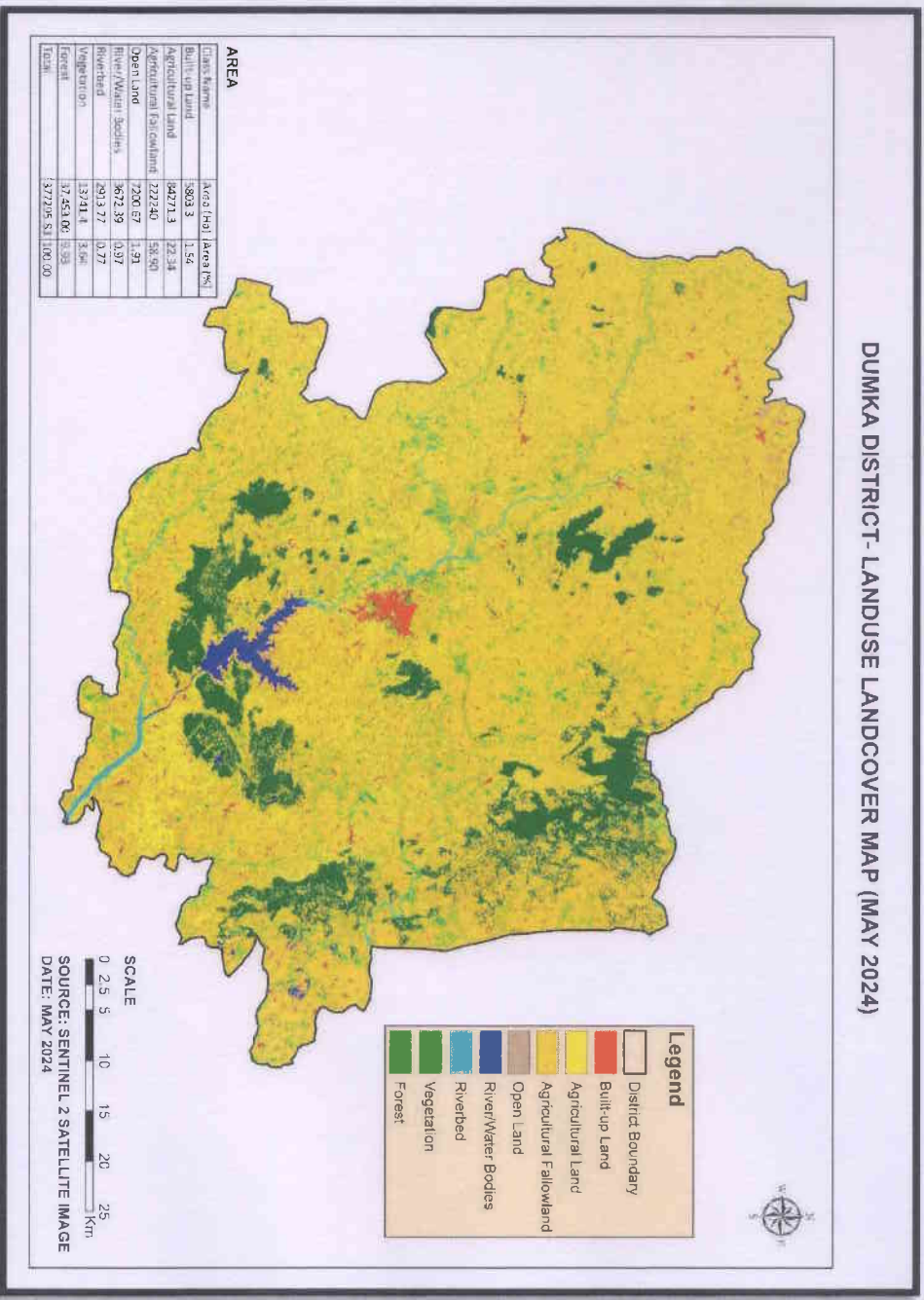


Figure 6-1:- Land use Land Cover Map Dumka District



DISTRICT MINING OFFICER
DUMKA
101 | Page



7 SURFACE WATER & GROUND WATER SCENARIO OF THE DISTRICT

7.1 Hydrogeology

Ground water in the district is replenished mainly by the atmospheric precipitation. The depth to water and water level fluctuation depends mainly on the amount and distribution of rainfall, geomorphological set up, lithology etc. The occurrence and movement of Ground Water in the area is broadly governed by geological frameworks, i.e nature of rock formations including their porosity and permeability. A fracture system roughly corresponds to a hydraulic system in the rock. A rock which has been exposed to a two-phase brittle deformation can also constitute one hydraulic system if there is a good connection between the two fracture systems. Highly fractured rocks may be treated in hydrological computations in a similar way as porous media (Larsson, 1984). Based on morpho-genetic, geological diversities and relative ground water potentialities of the aquifers, the district can be broadly divided into three Hydrogeological units: Consolidated or Fissured formations, Semi-Consolidated and unconsolidated or porous formations.

1. Consolidated or Fissured formations - Precambrians and Rajmahal Trap
2. Semi-Consolidated formations -Gondwanas
3. Unconsolidated or Porous formations - Laterites and Alluvium

In major part of this district Fissured formations i. e hard rock form the principal aquifers, which include mainly Chotanagpur Granite gneissic complex and Rajmahal Traps. However, in isolated areas Gondwana formations, laterites, as well as valley fill materials along the vicinity of the rivers also form potential aquifers. The Hydrogeology of the district is shown in Fig – 9.1.




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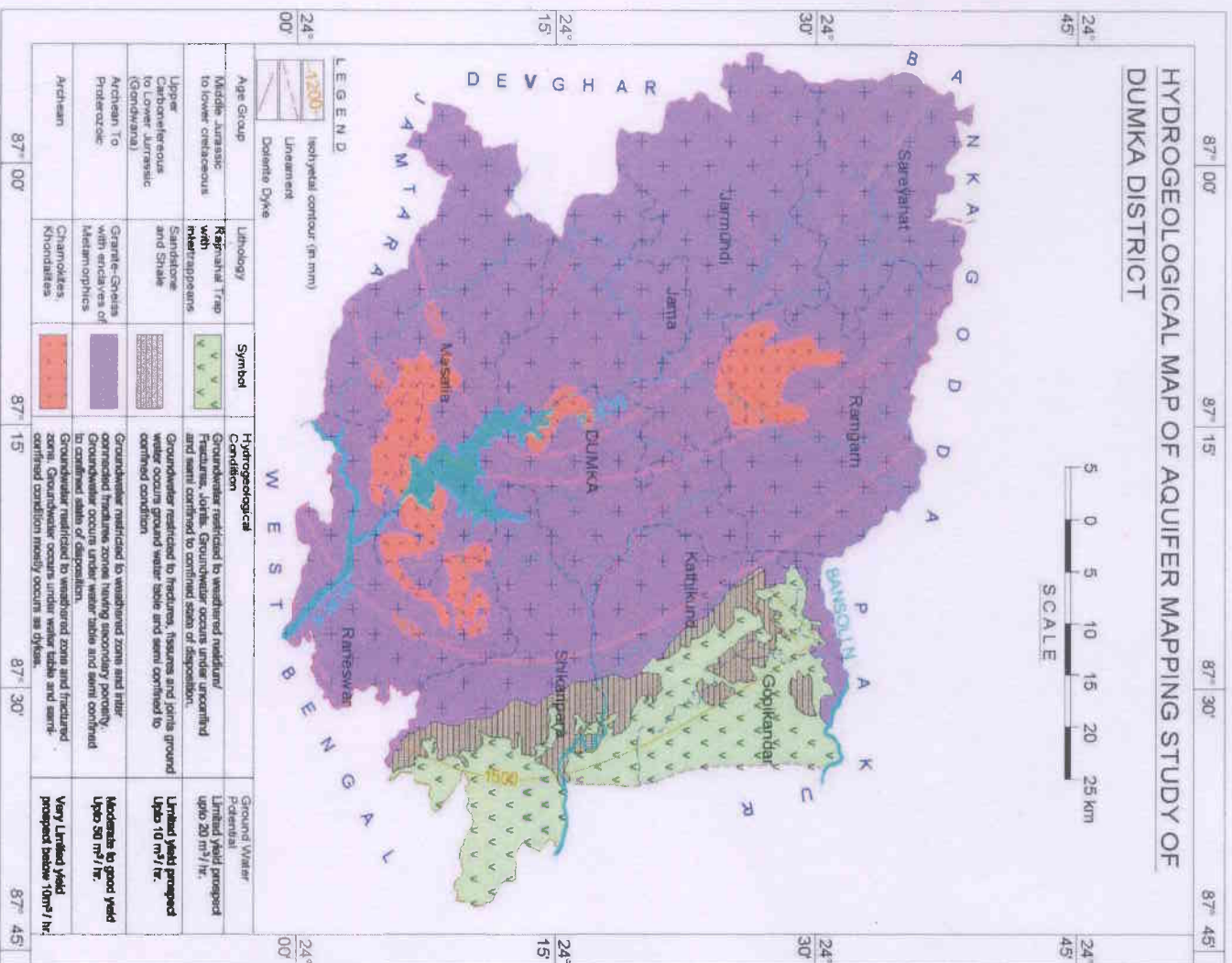


Figure 7-1 :- Hydrogeological Map of Dumka District

(Source: Central Ground Water Board, Dumka 2018-19)



DISTRICT MINING OFFICER,
DUMKA
Page 183

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



7.2 Depth of Water Level

There are 16 National Hydrograph Stations (NHS) have been established by Central Ground Water Board for the study of behavior of the water level and their fluctuation.

Ground Water in Aquifer-I (Weathered Granite- Gneisses, Sandstone ,weathered basalt,

Laterites): The aquifer-I i.e shallow aquifer is represented by Weathered Granite- 20 Gneisses, Weathered sandstone , weathered basalt & Laterites. Within the depth zone of dug wells, the weathered zone influences to a great extent in the hard rock formation constituting potential phreatic shallow aquifer. Almost all the rock types in the precambrial formations show the effect of weathering however, degree and intensity varies depending on the structure, chemical and mineralogical composition of the rocks etc. The plateau and pediplain region is occupied by moderately thick weathered residuum developed due to mechanical disintegration and chemical decomposition of impervious crystalline rocks. Laterites are mainly of insitu origin and have formed by subaerial erosion of underlying basalts under favourable climatic condition. Potential aquifer exists at shallow to moderate depth. The thickness of weathered zone varies from 6.00-41.00. Ground water occurs in unconfined to semi-confined state in Aquifer-I (upto the depth of 30m).

Potential Fractures in Aquifer-II: Number of boreholes has been constructed by CGWB in the district under groundwater exploration programme upto maximum depth of 200 m (Table-9). The borehole data reveals that, in general potential fractures are encountered between 30-100 m. The fractures in the directions of NW-SE, NE-SW and N-S are found to be 21 intense (Shekhar & Mukherjee, 2010).




DISTRICT MINING OFFICER,
DUMKA
1041 Page

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

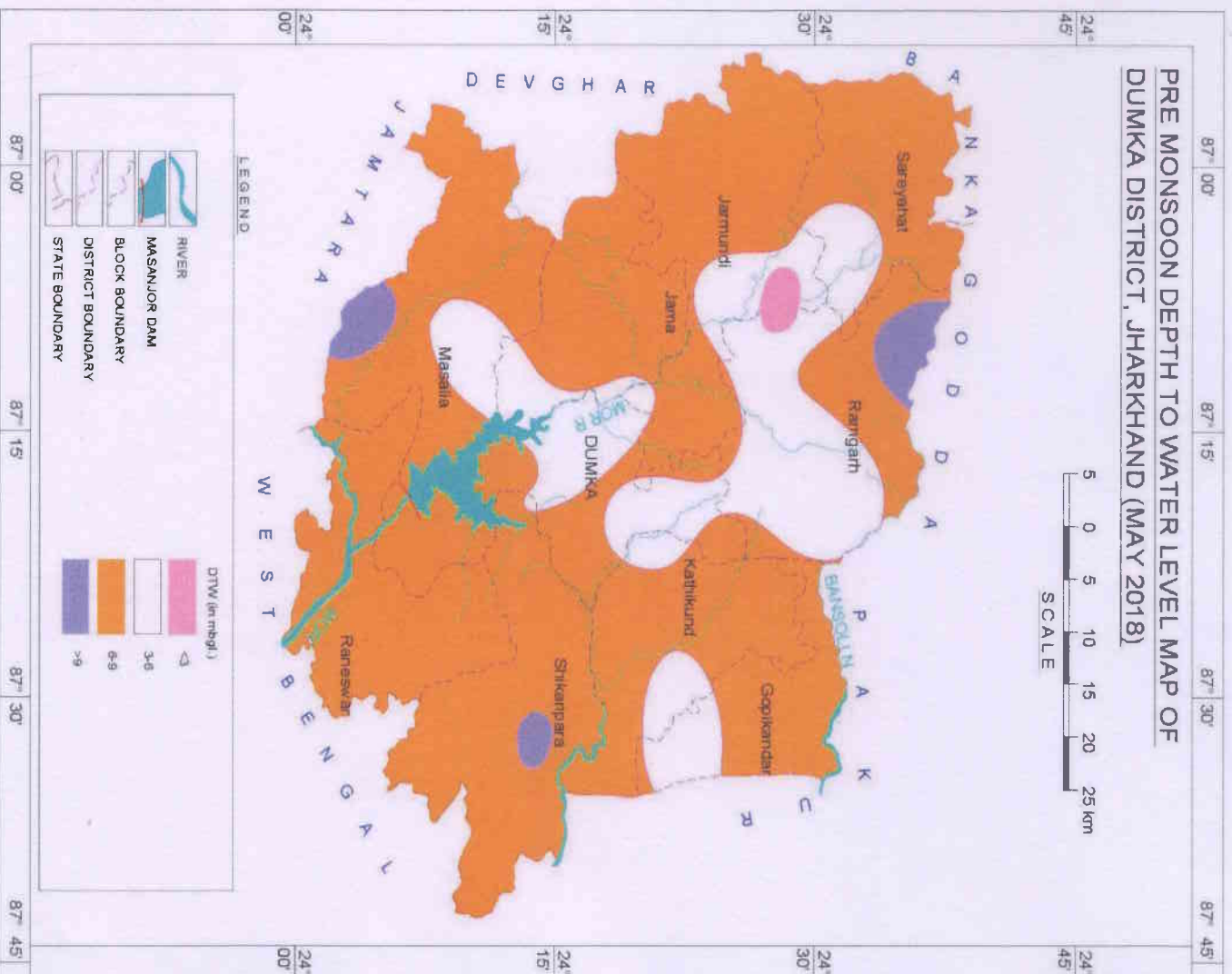


Figure 7-2. Pre monsoon depth to water level map of Dumka district (May 2018)

(Source: Central Ground Water Board, Dumka 2018-19)



DISTRICT MINING OFFICER
DUMKA

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

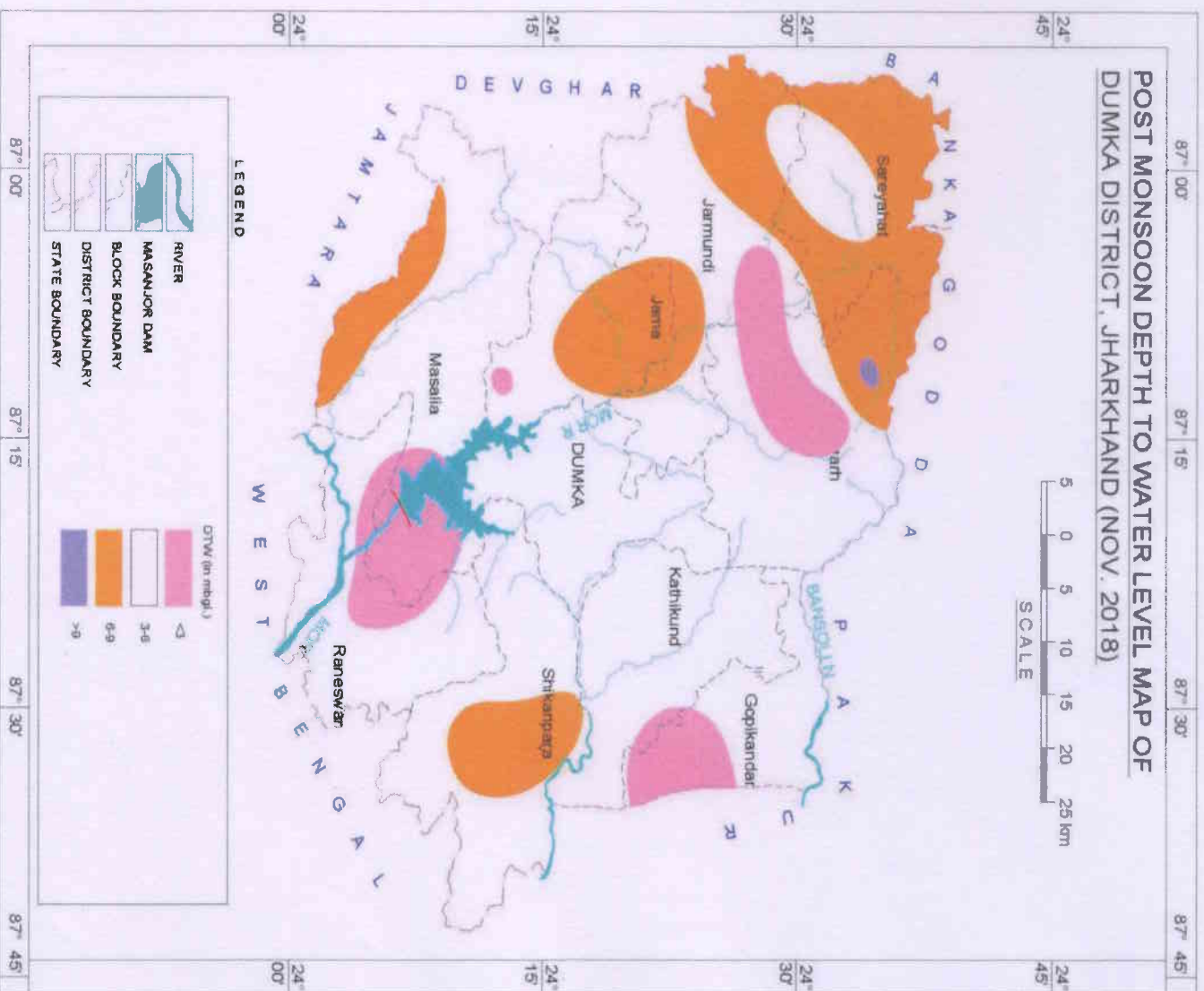


Figure 7-3: Post monsoon depth to water level map of Dumka district (May 2018)

(Source: Central Ground Water Board, Dumka 2018-19)



DISTRICT MINING OFFICER
DUMKA

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



Water level fluctuation: Seasonal ground water level fluctuation in shallow aquifer was studied with the help of 37 key wells which were monitored four times in different seasons during the year 2018. Any decline in water level in the dry and lean period is immediately restored with the onset of monsoon precipitation. Depletion of water in the ground water reservoir is replenished and thus the annual cycle of decline and rise of water level is maintained through time. The seasonal rise of water level varies from place to place. The seasonal water level fluctuation between pre and post monsoon period for the year 2018 observed between 0.14 to 3.78 m in the district. Seasonal water level fluctuation map between pre monsoon (May 2018) and post monsoon (November 2018) has been prepared and presented in figure 9-4.




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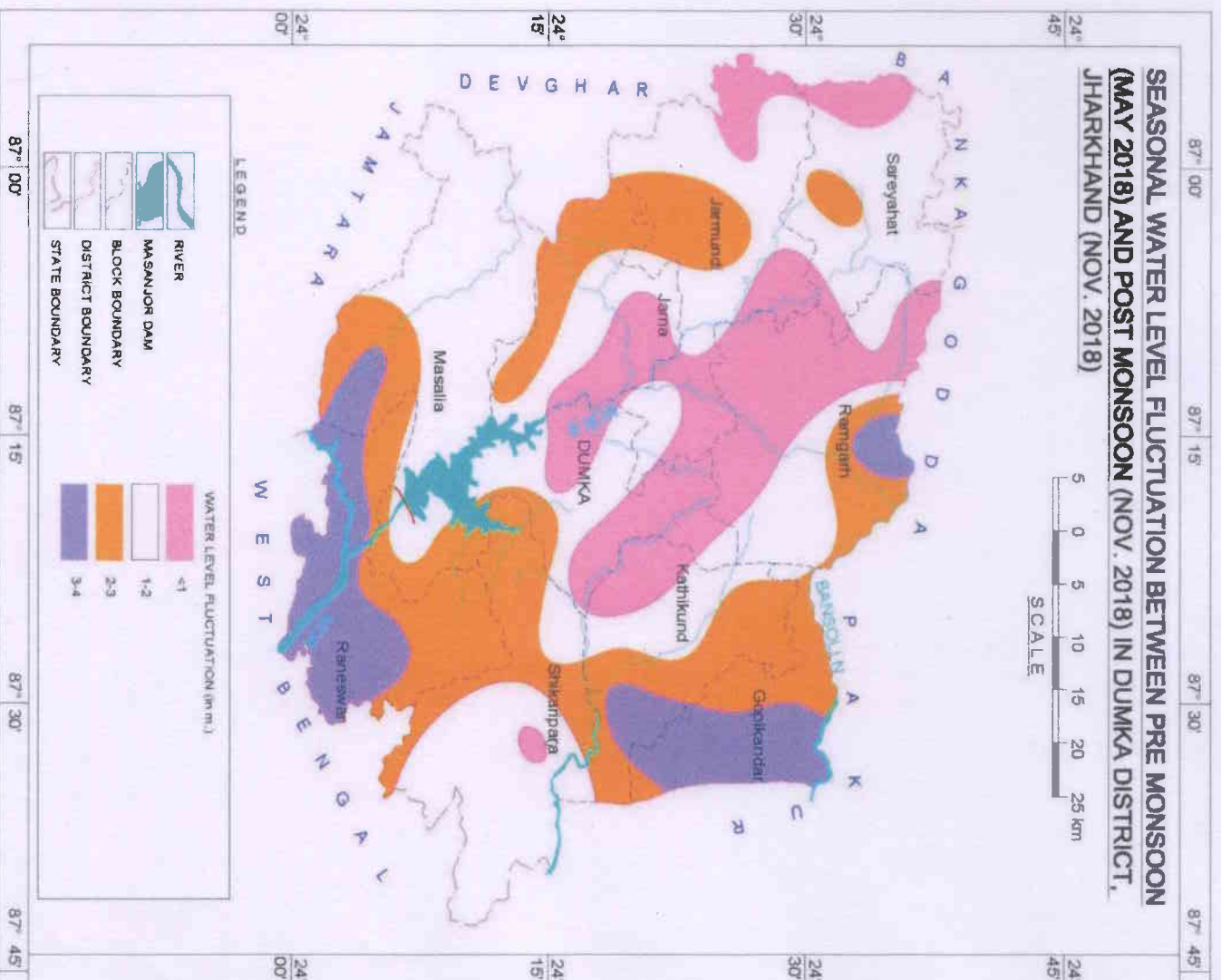


Figure 7-4: Seasonal water level fluctuation map of Dumka district (2018)

(Source: Central Ground Water Board, Dumka 2018-19)



DISTRICT MINING OFFICER
DUMKA

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



7.3 Last ten years long term water level trend (2010-2019)

In order to study long term behaviour of the water levels and also the effect of various developmental activities with time, the data for the period 2010-2019 have been computed, analyzed and presented in following table. The pre and post monsoon water level trend analysis showing rising trend in 85% and 77% wells respectively. It may be due to extraction of ground water from dug well is very less because sufficient availability of hand pumps in recent years.

The dug well was main source for ground water extraction 20 - 30 years back.

Table 7-1: Last ten years long term water level trend of Dumka district (2010 – 2019)

S.no	Location	Water level trend (m/year)			
		Pre-monsoon		Post-monsoon	
		Rise	Fall	Rise	Fall
1	Jama	0	0.1623	0.042	0
2	Jarmundi	0.1002	0	0.239	0
3	Nonitat	0.042	0	0.0001	0
4	Gopikandar	0.5588	0	0.2035	0
5	Gamharia	0	0.118	0	0.3966
6	Hansdiha	0.04	0	0.1184	0
7	Raneshwar	0.0224	0	0.2098	0
8	Masanjor	0.0496	0	0.1549	0
9	Masalia	0.2038	0	0	0.0497
10	Parabari	0.0182	0	0.1139	0
11	Shikaripara	0.0779	0	0.2715	0
12	Chikania	0.0637	0	0	0.0082
13	Kathikund	0.1766	0	0.1565	0

7.4 Ground Water Exploration:

To assess the potentiality of the deep fractured rock 31 exploratory wells and 18 observation wells were drilled in Dumka district by Central Ground Water Board. The drilling results have indicated that granite gneiss of different shades varying from grey to dark grey to pink, having coarse grained texture sometime porphyritic, are the most dominant rock types met in the area.

In the bore wells upper weathered zones are cased and only the fractured zones are tapped in the



DISTRICT MINING OFFICER
Dumka

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



uncased well. Summary of success bore wells drilled by Central Ground Water Board in the district is given below.

Table 7-2: - Summary of success bore wells drilled by CGWB in Dumka district

S.No.	Location	Block	Depth Drilled (m)	Major Lithology	Depth of casing (m)	Potential Fracture Zone (m bgl)	Static Water Level (m bgl) at the time of drilling	Disch large (m 3/h) comp ressor
1	Hijlapahar	Dumka	150	GG	8	22-24,56-59,112-113.00	5.36	7.38
2	Shiv pahar	Dumka	159	GG	9.2	151.00-153.00	25.45	35.4
3	Kathikund	Kathikund	140	GG	15.82	32.00-34.00, 39-40,48.00-49.00,58-60,78.00-81.00, 100-103	9.96	26.4
4	Raneshwar	Raneshwar	200	GG	18.5	50-52, 74.00-75.00, 117-118,121-123,	5.18	17.82
6	Basukinath	Jarmundi	121.1	GG	15.03	24-26, 42-43,45-46,,61-63,106-108	3.55	43.34
7	Hansdiha	Hansdiha	115	GG	13	31-32,33-36,70-71, 92-93,102-103, 106-107	5.14	34.32
8	Sikaripara	Sikaripara	178	GG	21	25-28, 56-60, 90-92, 160-163,177-178	4.93	34.32
9	Nischintpur	Masaliva	87.62	GG	12.5	23-24, 44-45,54-58,59-61, 84-87	8.25	19.34
11	Masaliva	Masaliva	57.86	GG	9	11-16,36-37,5 51-53,57-58	3.9	66.49
12	Nawasari	Masaliva	92.24	GG	8	11-14,17-18,37-39,67-69,90-91	5.31	32.94
13	Nawadin	Masaliva	84.74	GG	15.5	22-23,28-29,37-39,45-54,64-65,79-84	6.75	76.8
14	Dalahi	Masaliva	177.2	GG	12	33-34,45-47, 98-100,159-161,162-163,	1.05	22.56



**DISTRICT MINING OFFICER,
DUMKA**

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



15	Karudih	Gopikander	138	RT/DS	22	93-94,106-107,114-115,133-134,137-138	0.92 m.agl.	31.2
17	Nuninat	Ramgarh	94	GG	23	37-39,60-62,66-71,81-82,93-94	-	81
18	Dumka	Dumka	200	GG	41	52-53, 143-144	14.83	11.16
19	Bedia	Jama	68.5	GG	30	57-59	5.8	44.28
20	Chikania	Jama	202.7	GG	16.5	176-177,184-185		12.24
21	Mahura	Seryahat	153.9	GG	18.5	114-115	17.15	14.04

Source: CGWB, Dumka 2018-19

From above table, it is observed that one to seven sets of fractures have been encountered in the bore wells drilled in Dumka district. Based on morphotectonic analysis and exploratory drilling results, it confirms that the area has undergone several phases of tectonic deformations which lead to various sets of fractures, fissures, and faults etc which are ground water repositories. Various sets of fractures have been identified, on ground water point of view. The shallow aquifers upto the depth of 100m and deep fractured aquifer exist upto 185 mbgl within the explored depth of 200 m.

Based on Aquifer Parameters evaluation in the district, Transmissivity value of deep fractured aquifer is found to be between 14.04 to 186 m²/day. High value of Transmissivity correlates to tensile fracture system. The Storage co-efficient value ranging from 7.30 x 10⁻⁵ to 2.30 x 10⁻² which indicates semi-confined to confine aquifer system in the district.

7.5 Ground Water Quality

The quality of water plays prominent role in promoting both the standards of agriculture production and human health. To evaluate the quality of ground water, samples have been collected from 29 dug wells and 32 representatives bore wells (hand pumps). The analytical results of water samples dug wells and hand pumps are given in Appendix- VIII and IX respectively. 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 the bore well samples represent the Aquifer II (deeper zone) quality of ground water.



DISTRICT MINING OFFICER,
DUMKA
III | Page

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



7.6 General range of chemical parameter of Aquifer - II in the area

The variation range of the concentration in ppm of different chemical constituents and quality parameters of Aquifer - II (hand pumps samples) represented in table

Table 7-3 : Ranges of chemical constituents of Aquifer - II in Dumka district (hand pump samples)

Chemical quality parameters	Constituents	and Granite gneiss	Basalt	Sandstone
pH	7.34 - 8.35		7.95 - 8.11	8.06 - 8.15
EC (micro siemens/cm at 25°C)	170 - 1295		210 - 513	432 - 541
TDS (ppm)	119 - 907		147 - 359	302 - 359
TH as CaCO ₃ (ppm)	75 - 465		75 - 155	150 - 175
Ca (ppm)	16 - 116		16 - 32	12 - 18
Mg (ppm)	1.21 - 83.83		6.07 - 18.22	25.51 - 35.23
Na (ppm)	8.13 - 89.28		15.50 - 38.22	20.77 - 39.95
K (ppm)	0.52 - 9.01		0.45 - 12.00	4.63 - 17.95
HCO ₃ (ppm)	61.50-276.75		92.25 - 184.50	178.35 - 252.15
Cl (ppm)	3.08 - 201.50		14.80 - 35.30	3.21 - 17.06
SO ₄ (ppm)	0 - 84		1 - 22	2 - 63
NO ₃ (ppm)	2.10 - 115		15.30 - 22.10	2.90 - 12.60
F (ppm)	0 - 1.70		Nil	0.00 - 0.13

Source: CGWB, Dumka (2018-19)

The ground water of aquifer - II in the area is alkaline in nature. On the perusal of table 9-3, the pH value ranges 7.34 to 8.35 mg/l in granite gneiss terrain. Similarly, it varies from 7.95 to 8.11 mg/l and 8.06 to 8.15 mg/l in basaltic terrain and sandstone areas. The EC value ranges between 170 to 1295 mg/l in granite gneiss area while it varies from 210 to 513 mg/l in basaltic area. Overall, in the district, the TDS value varies from 119 to 907 mg/l. and the total hardness ranges between 75 to 465 mg/l. Calcium and Magnesium values varies from 16 to 116 mg/l and 1 to 83.83 mg/l respectively. Similarly, the Nitrate value ranges from 2.10 to 115 mg/l while Fluoride value found between 0 to 1.70 mg/l.

7.7 Aquifer Characteristics

The sustainability of ground water Resources are better understood by the aquifer properties. The Table- 29 depicts the aquifer parameters details in Dumka district. The aquifer performance tests conducted at various exploratory wells reveal that aquifers can sustain to sufficient pumping hours and can give sustained yield with normal draw down. The transmissivity value ranges from 5-186 m²/day. Higher values of Transmissivity may be attributed to tensile nature or openness of fractures. The storability value also varies from 2.3x10⁻² to 7.3 x 10⁻⁵, which shows that aquifers are under semi-confined to confined condition.



DISTRICT MINING OFFICER,
DUMKA

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



Table 7-4: Aquifer characteristics of Dumka district

Type of aquifer	Formation	Depth range of the aquifer (mbgl)	SWL (mbgl)		Thickness (m)	Yield m ³ /hr	Aquifer parameter	
			Pre Monsoon (2018)	Post Monsoon (2018)			T (m ² /day)	Sy/S
Aquifer -I	Laterites/ Weathered Granite gneiss/Basalt	8-41	1.97 - 9.55	1.48 - 9.40	1 - 5	5-10	--	--
Aquifer -II	Fractured Granite gneiss/Fractured and Vesicular Basalt	11-185	--	--	0.50 - 7.00	Upto 81	5 - 186	0.00007 3 - 0.023

Source: CGWB, Dumka (2018-19)

7.8 Primary Ground water Survey near existing mining site

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DISTRICT MINING OFFICER,
DUMKA
Page

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



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Manjhadh



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 Universal Coord. Manjhadh, Dumka, Jharkhand, India
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 Long: 85.944251°
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**DISTRICT MINING OFFICER,
 DUMKA**

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



*Some mines have Geo Hydrological Survey Report attached in Annexure- X.



**DISTRICT MINING OFFICER,
DUMKA**



8 RAINFALL AND CLIMATE OF THE DISTRICT

8.1 Climate & Rainfall

Climate: The Climate of Dumka district represents a transition between the dry and extreme climate of northern India and the warm and humid climate of West Bengal. The Winter commences from mid-November and extends up to the middle of March, December and January being the coldest months. The winter is characterised by heavy dew, thick fog and associated with cold waves. The winter is followed by summer which lasts till mid – June and then monsoon sets in which generally lasts till the end of September. During winter the mercury drops to 4°C and during summer it shoots up to 46°C. The relative humidity varies between 50 – 60%.

Rainfall: The district receives a larger share of the annual rainfall mainly by the south – west monsoon during inter-monsoon period which originates in the Bay of Bengal. The district receives 60% of the annual rainfall during monsoon period. July is the month which receives the highest rainfall. The average annual rainfall for the district is 1391.40 mm. The normal annual rainfall of the district is 1422.5 mm with normal monsoon rain fall of 1125.6mm. During the year 2008 the annual rainfall was 1336 mm and monsoon rainfall was 1223.2 mm which was 91.3 % of the annual rainfall.

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




DISTRICT MINING OFFICER,
DUMKA

District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Dumka 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
2018	0	-100	0	-100	0	-100					103	-49
2019	0	-100	28.3	105	8.2	-47	50.5	100	128	61	101.4	-51
2020	14.8	99	17.3	25	56.8	269	59.3	134	178.1	124	196.9	-5
2021	0	-100	0	-100	1.2	-92	8	-68	141.2	78	308.9	49
2022	16.9	132%	69.5	484%	0	-100%	1.5	-93%	168.7	131%	129.1	-35%

YEAR	JUL		AUG		SEPT		OCT		NOV		DEC	
	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP
2018	175.2	-46	273	-10	150.8	-43	48.6	-61	0	-100	16.2	195
2019	335.2	4	249.3	-11	314.1	20	95.1	-21	0	-100	0	-100
2020	382.7	19	342.2	22	223	-15	39.5	-67	0.2	-98	0	-100
2021	295.3	-8	269.4	-4	195	-26	163.4	36	5.4	-44	4.7	27
2022	87.3	-73%	224.2	-16%	342.2	24%	142.8	29%	0	-100%	0.6	-88%



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

DISTRICT MINING OFFICER
DUMKA

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



Table 8-2:- Month wise data

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Record high °C (°F)	29.0(84.2)	35.0(95.0)	39.0(102.2)	44.0(111.2)	45.0(113.0)	45.0(113.0)	38.0(100.4)	37.0(98.6)	35.0(95.0)	32.0(89.6)	35.0(95.0)	29.0(84.2)	45.0(113.0)
Average high °C (°F)	24.22(75.6)	28.35(83.03)	34.02(93.24)	37.6(99.68)	38.9(102.02)	37.27(99.09)	33.78(92.8)	32.92(91.26)	31.91(89.44)	28.94(84.09)	30.35(86.63)	25.12(77.22)	31.95(89.51)
Daily mean °C (°F)	20.43(68.77)	24.65(76.37)	30.75(87.35)	34.16(93.49)	35.65(96.17)	34.92(94.86)	31.73(89.11)	30.97(87.75)	29.8(85.64)	25.37(77.67)	27.69(81.84)	21.32(70.38)	28.95(84.11)
Average low °C (°F)	14.37(57.87)	17.78(64.0)	22.96(73.33)	25.91(78.64)	27.97(82.35)	29.46(85.03)	27.56(81.61)	26.97(80.55)	25.78(78.4)	19.58(67.24)	22.89(73.2)	15.26(59.47)	23.04(73.47)
Record low °C (°F)	10.0(50.0)	12.0(53.6)	15.0(59.0)	17.0(62.6)	19.0(66.2)	24.0(75.2)	22.0(71.6)	25.0(77.0)	18.0(64.4)	15.0(59.0)	18.0(64.4)	9.0(48.2)	9.0(48.2)
Average precipitation mm (inches)	2.34(0.09)	6.75(0.27)	6.1(0.24)	23.5(0.93)	89.33(3.52)	79.06(3.11)	148.28(5.84)	115.85(4.56)	119.38(4.7)	0.12(0.005)	46.05(1.81)	3.66(0.14)	49.2(1.94)
Average precipitation days (≥ 1.0 mm)	0.27	1	1.18	3.45	4	5.27	7.36	7.64	6.45	0	3.27	0.36	3.35
Average relative humidity (%)	45.48	40.32	30.08	40.97	47.86	55.22	71.59	76.26	77.8	50.02	68.29	43.94	53.99



DISTRICT MINING OFFICER
DUMKA Page

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



Mean monthly sunshine hours	8.42	8.4	10.98	12.5	13.18	12.63	11.33	11.34	9.31	10.27	10.5	8.56	10.62
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(Source: <https://weatherandclimate.com/india/jharkhand/dumka>)



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**DISTRICT MINING OFFICER,
DUMKA**

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



9 DETAILS OF MINING LEASES IN THE DISTRICT

Table 9-1:- Details of 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 st /2 nd renewal)		Date of commencement of Mining Operation
						Form	To	From	To	
1	2	3	4	5	6	7	8	9	10	11
1	Stone	Shri Parasnath Heights Pvt. Ltd.	Shri Nirmal Jain, Diwakar Tower, 1st floor, Saithaia, Birbhum, West Bengal	1853/M dated 22-12-2021	2.11 HA/5.20 acre	16.02.2022	15.02.2027			21.05.2022
2	Stone	Shri Mainul Islam	Shri Mainul Islam, Mahendrapur, birbhum, West Bengal	1828/M dated 18.12.2021	2.17 ha/5.36 acre	18.01.2022	17.01.2027			02.06.2022
3	Stone	M/s Raksha Kali Stone Works	Shri Shankar Bhagat, Ramnagar, PO. Malpahari, Pakur, Jharkhand	269/M dumka Dated 09.03.2024	1.66 HA/4.09 acre	14.03.2024	13.03.2029			
4	Stone	M/s Shree Shree Stone Works	Islam Miyan(Partner), Saharpur, Post-Benagaria, Thana-Shikaripara, Dumka, Jharkhand	241/M dumka dated 01.03.2024	2.97 ha/7.34 acre	14.03.2024	13.03.2029			
5	Stone	M/s Maa Kali Stone	Shri Ajay Kumar Bhagat, Ganpura, PS. Pakuria, pakur, Jharkhand	218/M Dumka DATED 23.02.2024	2.46 HA/6.08 acre	11.03.2024	10.03.29			



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DISTRICT MINING OFFICER
DUMKA

District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Dumka 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 st /2 nd renewal)		Date of commencement of Mining Operation
						Form	To	From	To	
1	2	3	4	5	6	7	8	9	10	11
6	Stone	M/s Raksha Kali Stone Works	Sri Manoj Kumar Bhagat, Sarasdangal, PS. Shikaripara, Dumka, Jharkhand	280/M Dumka dated 12.03.24	2.955 ha/7.30 acre	15.03.24	14.03.29			
7	Stone	Sri Utpal Kumar Sen	Sri Utpal Kumar Sen, Kundit, PO+Thana-Kundit, Jamtara, Jharkhand	1881/M dumka DATED 31.12.21	2.26 ha/5.59 acre	18.01.22	17.01.27			19.04.2022
8	Stone	M/s R.S.S Stone Works	Sri Rahul Singh & Partners, Sirsia, po.-Kanki, Thana-Palojori, Deoghar, Jharkhand	187/M dumka DATED 15.02.22	1.73 ha/4.28 acre	11.03.24	10.03.29			
9	Stone	Shri Arun Kumar Sah	Shri Arun Kumar Sah, Village+Post+P.S.- Shikaripara, District-Dumka	281/m Dumka dated 12.03.24	1.61 ha/3.97 acre	15.03.24	14.03.29			
10	Stone	M/s S.P. Stone Works	Shri Purushottam Sharan Prashant, at Shrikant road Belagagan, PS.- Deoghar, Deoghar, Jharkhand	240/M Dumka 01.03.24	1.97 ha/4.870 acre	11.03.24	10.03.29			



DISTRICT MINING OFFICER - DUMKA

District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Dumka 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 st /2 nd renewal)		Date of commencement of Mining Operation
						Form	To	From	To	
1	2	3	4	5	6	7	8	9	10	11
11	Stone	Shri Amardeep	Shri Amardeep, R/O House No. 1002, Sector -14, Sonipat, Haryana	246/M dated 01.03.24	2.43 ha/6.01 acre	14.03.24	13.03.29			
12	Stone	Shri Amardeep	Shri Amardeep, R/O House No. 1002, Sector -14, Sonipat, Haryana	259/M dated 05.03.24	2.38 ha/5.88 acre	14.03.24	13.03.29			
13	Stone	Shri Sunil Kumar Mandal	Shri Sunil Kumar Mandal, Kushpahari, PO-Baramasia, PS- Shikaripara, Dumka, Jharkhand	216/M Dumka dated 23.02.24	1.76 ha/4.34 acre	11.03.24	10.03.29			
14	Stone	M/s Varun Singh Sisodia Private Limited	Shri Varun Singh(Managing Diurector), 12- Kishorbhawan, Justice Mandal Path, DAV School East, Rajvanshi Nagar, Patna	238/M Dumka dated 01.03.24	1.78 ha/4.39 acre	14.03.24	13.03.29			



**DISTRICT MINING OFFICER
DUMKA**

District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Dumka 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 st /2 nd renewal)		Date of commencement of Mining Operation
						Form	To	From	To	
1	2	3	4	5	6	7	8	9	10	11
15	Stone	Shri Parasnath Industries	Proprietor- Shri Nirmal Jain, At Shriram Apartment, Ranchi Patna Road, PO- Jhumri Tilaiaya, Koderma, Jharkhand	252/M Dumka DATED 04/03/24	2.34 ha/5.79 acre	14.03.24	13.03.29			
16	Stone	Shri Santosh Kumar Dan	Shri Santosh Kumar Dan, Kolaibari, PO- Rajbandh Palasi, PS Shikaripara, Dumka, Jharkhand	239/M Dumka dated 01.03.24	1.20 ha/2.97 acre	11.03.24	10.03.29			
17	Stone	M/s Jai Maa Tara Stone Product	Prop: Shri Binod Prasad Bhagat, Sarasdangal, Dumka, jharkhand	245/M Dumka dated 01.03.24	2.73 ha/6.73 acre	14.03.24	13.03.29			
18	Stone	M/s R.A.N Enterprises	Prop: Sri Amit Kumar, Dumarchir, Pakur, Jharkhand	1316/M dated 31.10.19	2.65 ha/6.56 acre	30.01.20	29.01.25			05.07.2022
19	Stone	M/s Lakhinarayan Stone Works	Shri Manoj Kumar Gupta & Partner, Gopikandar, dumka, jharkhand	1129/M dated 20.09.19	1.53 HA/3.77 acre	26.10.19	25.10.24			17.05.2022



DISTRICT MINING OFFICER - DUMKA
123 | Page

District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Dumka 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 st /2 nd renewal)		Date of commencement of Mining Operation
						Form	To	From	To	
1	2	3	4	5	6	7	8	9	10	11
20	Stone	Sri Pratyusdhar Jha	Sri Pratyusdhar Jha, Near Central Jail, Grant Estate, Sonwadangal, Dumka, Jharkhand	1306/M dated 25/10/19	2.31 HA/5.70 acre	25.12.19	24.12.24			29.06.2020
21	Stone	Shri Mahesh Yadav	Sri Mahesh yadav, H.No-86, satdiha, Koderma, Jharkhand	1335/M dated 06.11.19	1.81 ha/4.48 acre	30.01.20	29.01.25			29.08.2022
22	Stone	M/s Vishnu Stone Enterprises	Shri Virendra Sahu, Nawadih, Koderma, Jharkhand	1332/M dated 05.11.19	1.63 ha/4.04 acre	30.01.20	29.01.25			15.09.2021
23	Stone	M/s Manmode Minerals Pvt. Ltd.	Shri Nilu Mariya & Partner, Rasikpur, Dumka, jharkhand	185/M dated 06.02.20	1.64 ha/4.04 acre	05.01.21	04.01.26			30.06.2022
24	Stone	M/s Pragati infra	Smt. Shilpi Pandey & Partner, W/o Chandra Shekhar Pandey, Sarua, Dumka, Jharkhand	183/M dated 06.02.20	1.40 ha/3.45 acre	15.02.20	14.02.25			13.04.2022



**DISTRICT MINING OFFICER-
DUMKA**

District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Dumka 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 st /2 nd renewal)		Date of commencement of Mining Operation
						Form	To	From	To	
1	2	3	4	5	6	7	8	9	10	11
25	Stone	Sri Soi Mandal	Sri Soi Mandal, Gopikandar, Dumka, Jharkhand	148/M Dumka Dated 03.02.20	1.955 ha/4.83 acre	19.05.20	18.05.25			
26	Stone	M/s Supreme Stone Mine	Sri Jagatbandhu Pandit, R/o Tapsi, Dumka, Jharkhand 827009	136/M Dumka 01.02.20	1.42 ha/3.52 acre	19.05.20	18.05.25			13.02.2021
27	Stone	Sri Fadar Ansari lease transfer to M/s Bansidhar Construction Private Limited	Sri Fadar Ansari, Jogikhop, PO-Rajbandh Palasi, PS-Shikaripara, Dumka, Jharkhand Sri Prakash Kumar Singh, 2nd Floor plot no 388/389 near Biscuit factory More Nasriganj, Digha, Danapur, Patna 800012	1830/M dated 18/12/21	2.94 ha/7.27 acre	19.05.20	18.05.25			26.11.2020
28	Stone	M/s Rajbir Construction Pvt. Ltd.	Sri Birkumar agarwal, 614, Hariom Tower, Circular Road, Ranchi, Jharkhand	134/M dated 01.02.20	2.91 ha/7.19 acre	19.05.2020	18.05.2025			01.08.2022



**DISTRICT MINING OFFICER-
DUMKA**

District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Dumka 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 st /2 nd renewal)		Date of commencement of Mining Operation
						Form	To	From	To	
1	2	3	4	5	6	7	8	9	10	11
29	Stone	Sri Anil Prasad Singh	Sri Anil Prasad, Singh B-4, Parvati Niwas, Behind SBI, Patel Nagar, Harmu Housing Colony, Ranchi, Jharkhand	137/M dated 01.02.20	2.98 ha/7.36 acre	19.05.20	18.05.25			11.09.2020
30	Stone	Md. Abdus Salam Ansari	Md. Abdus Salam Ansari, Kalakata, Dumka, Jharkhand	960/M dated 26.06.20	1.39 ha/3.43 acre	16.07.20	15.07.25			
31	Stone	M/s K.K. Stone	Shri Bhutka Soren, Daldali, Dumka, Jharkhand	181/M dated 06.02.20	2.98 ha/7.37 acre	19.05.20	18.05.25			13.10.2022
32	Stone	Shri William Rituraj	Shri William Rituraj, Tola Bathal, Bhagvanpur, Khapura, Nawada Bihar	145/M dated 03.02.20	2.96 ha/7.31 acre	19.05.20	18.05.25			29.07.2020
33	Stone	Sri Ravindra Nath Chand	Sri Ravindra Nath Chand, Gopikandar, Dumka, Jharkhand	84/M dated 21.01.22	2.69 ha/6.65 acre	11.02.22	10.02.27			25.04.2022



DISTRICT MINING OFFICER - DUMKA

District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Dumka 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 st /2 nd renewal)		Date of commencement of Mining Operation
						Form	To	From	To	
1	2	3	4	5	6	7	8	9	10	11
34	Stone	Sri Ravindra Nath Chand	Sri Ravindra Nath Chand, Gopikandar , Dumka, Jharkhand	282/M Dumka 12.03.24	2.50 ha/6.18 acre	15.03.24	14.03.29			
35	Stone	M/s Agrima Infra Engineering Pvt.Ltd.	Sri Rahul Kumar, R/o 105, Hardala Kund, Durga Bari Road, Deoghar, Jharkhand	268/M Dumka dated 09.03.24	1.04 ha/2.57 acre	14.03.24	13.03.29			
36	Stone	M/s Agrima Infra Engineering Pvt.Ltd.	Sri Rahul Kumar, R/o 105, Hardala Kund, Durga Bari Road, Deoghar, Jharkhand	267/M Dumka dated 09.03.24	2.12 ha/5.24 acre	14.03.24	13.03.29			
37	Stone	Shri Dilip Kumar Modi	Shri Dilip Kumar Modi, Asanbani, Dumka , Jharkhand	1578/M dated 09.11.21	1.87 ha/4.63 acre	08.01.22	07.01.27			05.11.2022
38	Stone	Shri Bheru Lal Sharma	Shri Bheru lal Sharma , Ashaholi, Bhilwara, Rajasthan-311801	1880/M dated 31.12.21	2.83 ha/6.99 acre	01.02.22	31.01.27			25.04.2022



**DISTRICT MINING OFFICER,
DUMKA**

District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Dumka 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 st /2 nd renewal)		Date of commencement of Mining Operation
						Form	To	From	To	
1	2	3	4	5	6	7	8	9	10	11
39	Stone	M/s Tridev Engicon Pvt. Ltd.	Shri Ravi Shankar kumar, H.No-298, Ward No-04, Williams Town , Shree Krishnapuri, Deoghar, Jharkhand	1579/M dated 09.11.21	2.43 ha/6.0 acre	02.12.21	01.12.26			28.04.2022
40	Stone	Shree Deepak Raj	Shree Deepak RaJ, Hemra, begusarai, Bihar	267/M dated 28.02.22	2.83 ha/7.0 acre	11.03.24	10.03.29			
41	Stone	M/s Baba Stone	Shri Sanjay Kumar Mandal & Partners, Kharauni Bazar, Dumka , Jharkhand	1855/M dated 23.12.21	2.97 ha/7.33 acre	18.01.22	17.01.27			04.03.2023
42	Stone	Shri Sujeet Kumar Singh	Shri Sujeet Kumar Singh, Arak, Buxar, Bihar	217/M Dumka dated 23.02.24	2.834 ha/7.0 acre	14.03.24	13.03.29			
43	Stone	M/s Adity Stone	Prop: Shri Amuly KumarPaul, Bhutokodiya, Dumka, Jharkhand	1879/M dated 31.12.21	2.60 ha/6.41 acre	03.02.22	02.02.27			21.09.2022



128

DISTRICT MINING OFFICER
DUMKA

District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Dumka 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 st /2 nd renewal)		Date of commencement of Mining Operation
						Form	To	From	To	
1	2	3	4	5	6	7	8	9	10	11
44	Stone	Shri Madhurendra Jha	Shri Madhurendra Jha, Harnakundi Road, purana Dumka, Dumka, Jharkhand	242/M Dumka dated 01.03.24	1.62 ha/4.0 acre	11.03.24	10.03.29			
45	Stone	Shri Pankaj Kumar Mandal	Shri Pankaj Kumar Mandal, H.No.139, Gopikandar, dumka, Jharkhand	258/M Dumka dated 05.03.24	0.99 ha/2.45 acre	14.03.24	13.03.29			
46	Stone	M/s Rajah Mining Corporation	Shri Seikh Salauddin, Sontsal, Sekedda, PO- Mokdumnagar, PS- Mohammad Bazar, Birbhum, Jharkhand- 731224	279/M dated 09.02.15	1.935 ha/4.782 acre	11.02.15	10.02/25			21.02.2018
47	Stone	Shri Kaushal Kishore Singh & Shri Harinandan Choudhary	Shri Kaushal Kishore Singh & Shri Harinandan Choudhary, Dudhani, Dumka, Jharkhand-814101	305/M dated 11.09.15	1.137 ha/2.81 acre	13.02.15	12.02.25			15.10.2020



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129
DISTRICT MINING OFFICER,
DUMKA

District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Dumka 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 st /2 nd renewal)		Date of commencement of Mining Operation
						Form	To	From	To	
1	2	3	4	5	6	7	8	9	10	11
48	Stone	Dani Nath Stone	Shri Jata Shankar Sahay, purana A.N. College Campus, Dudhani, Dumka, Jharkhand-814101	795 M Dumka dated 13/5/15	3.75 acre	09.09.2009	08.09.2014	08.09.14	07.09.24	21.12.15
49	Stone	Sri Haradhan Verma	Sri Haradhan Verma, Village +P.O- Rajbandh, P.S Shikaraipara, District-Dumka , Jharkhand 816118	173/M Dumka dated 06.02.20	1.38 ha/3.40 acre	19.05.20	18.05.25			08.10.2020
50	Stone	Smt Mini Hansda	Smt Mini Hansda, W/o Sri Mone Lal Marandi, Vill:- Manjhladih, Post:- Benagadiya, P.S:- Shikaripada, District Dumka.	318/M Dumka dated 15.03.2024	1.87 ha/ 4.62 Acre	07.06.2024	06.06.2029			



(Signature)
DISTRICT MINING OFFICER
DUMKA
 100 Page

District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Dumka 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 st /2 nd renewal)		Date of commencement of Mining Operation
						Form	To	From	To	
1	2	3	4	5	6	7	8	9	10	11
51	Stone	V R Minerals	Partner. 1. Sri Ajay Kumar, S/o late Ganga Kumar Address:- Kush Apartment, Ram Janaki Hawainagar, Ranchi. 2. Sri Pares Ghoshal, S/o H.M Ghoshal, Address:- Pathal Kudwa, Puruliya Road Ranchi.	87/M Dumka dated 21.01.2022	2.49 ha/ 6.16 Acre	25.06.2024	24.06.2029			



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DISTRICT MINING OFFICER
DUMKA

District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Dumka 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	13	14	15	16
1	Working	Non-captive	EC/SEIAA/2021-2022/2335/2021/44 Dated 15/07/2021	24°6'1.258"N to 24°6'8.259"N 87°34'19.132"E to 87°34'28.460"E	Opencast
2	Working	Non-captive	EC/SEIAA/2021-22/2357/2021/47 dated 15.07.2021	24°13'12.645"N to 24°13'22.398"N 87°36'53.350"E to 87°36'59.767"E	Opencast
3	Working	Non-captive	EC/SEIAA/2021-22/2356/2021/51 dated 15.07.2021	24°20'39.75"N to 24°20'44.91"N 87°32'57.88"E to 87°33'03.40"E	Opencast
4	Working	Non-captive	EC/SEIAA/2021-22/2362/2021/92 dated 14.08.2021	24°11'13.00"N to 24°11'06.68"N 87°34'15.17" E TO 87°34'23.34" E	Opencast
5	Working	Non-captive	EC/SEIAA/2021-22/2393/2021	24°27'25.72"N to 24°27'18.31"N 87°32'3.93"E to 87°31'57.64"E	Opencast



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DISTRICT MINING OFFICER.
DUMKA

District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Dumka 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 date of grant of EC.	Location of the Mining lease (Latitude & Longitude)	Method of Mining (Opencast/Underground)
1	12	13	14	15	16
6	Working	Non-captive	EC/SEIAA/2021-22/2374/2021/103 dated 14.08.21	24°27'23.59"N to 24°27'16.59"N 87°32'50.92"E to 87°32'43.13"E	Opencast
7	Working	Non-captive	EC/SEIAA/2021-22/2375/2021/116 dated 14.08.2021	24°24'58.33"N to 24°25'05.26"N 87°33'04.32"E to 87°33'13.28"E	Opencast
8	Working	Non-captive	EC/SEIAA/2021-22/2384/2021/98 DATED 14.08.21	24°26'44.03"N to 23°26'51.93"N 87°31'47.81" E to 87°31'52.79"E	Opencast
9	Working	Non-captive	EC/SEIAA/2021-22/2449/2021/192 dated 30.10.21	24°11'21.06"N to 24°11'27.02"N 87°35'03.05"E to 87°35'08.30"E	Opencast
10	Working	Non-captive	EC/SEIAA/2021-22/2537/2021/34 dated 16.04.22	24°27'01.47"N to 24°27'05.57"N 87°31'51.76"E to 87°32'01.33"E	Opencast



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DISTRICT MINING OFFICER
DUMKA
 133 Page

District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Dumka 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	13	14	15	16
11	Working	Non-captive	EC/SEIAA/2021-22/2538/2021/32 dated 16.04.22	24°09'59.73"N to 24°10'08.31"N 87°39'00.03"E to 87°39'06.60"E	Opencast
12	Working	Non-captive	EC/SEIAA/2021-22/2539/2021/33 DATED 16.04.22	24° 09' 55.10" N to 24° 10' 01.66" N 87° 38' 58.86" E to 87° 39' 05.41" E	Opencast
13	Working	Non-captive	EC/SEIAA/2022-23/2686/2022/350 dated 29/12/22	24°11'50.388"N to 24°11'56.875"N 87°33'29.217"E to 87°33'37.336"E	Opencast
14	Working	Non-captive	EC/SEIAA/2022-23/2687/2022/352 dated 29/12/22	24°27'36.660"N to 24°27'41.844"N 87°32'32.873"E to 87°32'40.535"E	Opencast



[Signature]
DISTRICT MINING OFFICER
DUMKA

District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Dumka 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 date of grant of EC.	Location of the Mining lease (Latitude & Longitude)	Method of Mining (Opencast/Underground)
1	12	13	14	15	16
15	Working	Non-captive	EC/SEIAA/2021-22/2340/2021/60 dated 15/07/2021	24°10'50.42"N to 24°10'44.48"N 87°34'01.93"E to 87°33'51.72"E	Opencast
16	Working	Non-captive	EC/SEIAA/2022-23/2764/2023/475 dated 24.03.23	24°11'36.063" N to 24°11'41.223" N 87°35'7.745" E to 87°35'12.591" E	Opencast
17	Working	Non-captive	EC/SEIAA/2022-23/2780/2023	24°11'22.8"N to 24°11'12.1"N 87°34'29.8"E to 87°34'24.4"E	Opencast
18	Working	Non-captive	EC/SEIAA/2018-19/2154/2019/547	24°26'50.01"N to 24°26'57.04"N 87°31'02.08"E to 87°31'07.08"E	Opencast
19	Working	Non-captive	EC/SEIAA/2018-19/2136/2018/340 DATED 02.08.19	24°27'34.80"N to 24°27'39.38"N 87°32'52.90"E to 24°27'34.80"N	Opencast



[Signature]
DISTRICT MINING OFFICER.
 13 DUMKA e

District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Dumka 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 date of grant of EC.	Location of the Mining lease (Latitude & Longitude)	Method of Mining (Opencast/Underground)
1	12	13	14	15	16
20	Working	Non-captive	EC/SEIAA/2018-19/2151/2019/550 dated 09.10.19	24°12'07.6"N to 24°12'14.8"N 87°33'35.7"E to 87°33'41.5"E	Opencast
21	Working	Non-captive	EC/SEIAA/2018-19/2161/2019/548 dated 09.10.19	24°12'05.3"N to 24°12'08.8"N 87°33'19.0"E to 87°33'24.4"E	Opencast
22	Working	Non-captive	EC/SEIAA/2018-19/2153/2018/551 dated 09.10.2019	24° 11'41.7"N To 24°11'48.8"N 87°32'41.6"E To 87°32'47.7"E	Opencast
23	Working	Non-captive	EC/SEIAA/2018-19/2176/2019/590 dated 26.10.19	24°11'41.79"N To 24°11'36.77"N 87°34'39.15"E To 87°34'33.11"E	Opencast
24	Working	Non-captive	EC/SEIAA/2018-19/2177/2019/592 dated 26.10.19	24°11'50.7"N To 24°11'46.60"N 87°33'55.60"E To 87°33'51.5"E	Opencast



[Signature]
DISTRICT MINING OFFICER
 DUMKA

District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Dumka 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	13	14	15	16
25	Working	Non-captive	EC/SEIAA/2018-19/2181/2019/591 dated 26/10/2019	24°27'31.7"N To 24°27'21.2"N 87°31'46.0"E To 87°31'41.0"E	Opencast
26	Working	Non-captive	EC/SEIAA/2018-19/2173/2019/640 dated 04.11.2019	24°10'42.8"N to 24°10'48.2"N 87°34'10.2"E to 87°34'16.8"E	Opencast
27	Working	Non-captive	EC/SEIAA/2018-19/2208/2019/629 dated 04.11.19	24°11'47.4"N To 24°11'42.4"N 87°32'48.4"E To 87°32'49.8"E,	Opencast
28	Working	Non-captive	EC/SEIAA/2018-19/2207/2019/637 dated 04.11.2019	24°13'22.73"N To 24°13'15.84"N 87°38'00.59"E To 87°37'52.30"E,	Opencast
29	Working	Non-captive	EC/SEIAA/2018-19/2210/2019/639 dated 04.11.2019	24°11'55.38"N to to 24°12'4.15"N 87°33'29.69"E to 87°33'34.77"E	Opencast
30	Working	Non-captive	EC/SEIAA/2018-19/2222/2019/682 dated 08.11.2019	24°11'14.30"N to 24°11'21.26"N 87°34'58.15"E to 87°35'2.29"E	Opencast



[Signature]
DISTRICT MINING OFFICER
 137
DUMKA g e

District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Dumka 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 date of grant of EC.	Location of the Mining lease (Latitude & Longitude)	Method of Mining (Opencast/Underground)
1	12	13	14	15	16
31	Working	Non-captive	EC/SEIAA/2018-19/2263/2019/699 dated 08.11.2019	24°11'54.28"N to 24°12'6.74"N 87°33'31.06"E to 87°33'39.34"E	Opencast
32	Working	Non-captive	EC/SEIAA/2018-19/2237/2019/701 dated 08.11.2019	24°12'4.72"N to 24°12'16.65"N 87°33'27.13"E to 87°33'33.62"E	Opencast
33	Working	Non-captive	EC/SEIAA/2021-22/2354/2021/26 dated 14.07.2021	24°26'15.20"N to 24°26'21.91"N 87°31'54.12"E to 87°32'02.03"E	Opencast
34	Working	Non-captive	EC/SEIAA/2021-22/2355/2021/32 dated 14.07.2021	24°24'55.92"N to 24°25'07.57"N 87°33'10.03"E to 87°33'18.06"E	Opencast
35	Working	Non-captive	EC/SEIAA/2021-22/2338/2021/27 dated 14.07.2021	24°11'44.51"N to 24°11'41.77"N 87°32'35.01"E to 87°32'35.48"E	Opencast
36	Working	Non-captive	EC/SEIAA/2021-22/2339/2021/25 dated 14.07.2021	24°11'41.23"N to 24°11'41.77"N 87°32'35.42"E to 87°32'35.48"E	Opencast



[Signature]
DISTRICT MINING OFFICER
 138
DUMKA g e

District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Dumka 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	13	14	15	16
37	Working	Non-captive	EC/SEIAA/2021-22/2326/2021/29 dated 14.07.21	24°11'51.45"N to 24°11'44.47"N 87°33'0.00"E to 87°32'54.09"E	Opencast
38	Working	Non-captive	EC/SEIAA/2021-22/2334/2021/34 dated 14.07.2021	24°10'11.76"N to 24°10'16.53"N 87°37'15.14"E to 87°37'24.68"E	Opencast
39	Working	Non-captive	EC/SEIAA/2021-22/2348/2021/59 dated 15.07.2021	24°26'49.609"N to 24°26'56.165"N 87°31'39.418"E to 87°31'46.673"E	Opencast
40	Working	Non-captive	EC/SEIAA/2021-22/2358/2021/39 dated 15.07.2021	24°26'40.88"N to 24°26'50.84"N 87°31'52.69"E to 87°31'58.24"E	Opencast
41	Working	Non-captive	EC/SEIAA/2021-22/2360/2021/53 dated 15/07/2021	24°26'30.19"N to 24°26'36.81"N 87°31'30.75"E to 87°31'39.79"E	Opencast
42	Working	Non-captive	EC/SEIAA/2021-22/2332/2021/56 dated 15/07/2021	24°11'8.93"N to 24°11'01.10"N 87°34'06.22"E to 87°33'57.24"E	Opencast



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DISTRICT MINING OFFICER
DUMKA

District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Dumka 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 date of grant of EC.	Location of the Mining lease (Latitude & Longitude)	Method of Mining (Opencast/Underground)
1	12	13	14	15	16
43	Working	Non-captive	EC/SEIAA/2021-22/2325/2021/55 dated 15.07.2021	24°27'23.06"N to 24°27'14.93"N 87°31'55.88"E to 87°31'48.51"E	Opencast
44	Working	Non-captive	EC/SEIAA/2021-22/2337/2021/57 dated 15/07/2021	24°12'1.30"N to 24°11'53.86"N 87°33'25.47"E to 87°33'21.77"E	Opencast
45	Working	Non-captive	EC/SEIAA/2021-22/2331/2021/54 dated 15.07.21	24°27'17.834"N to 24°27'21.907"N 87°31'27.901"E to 87°31'33.888"E	Opencast
46	Working	Non-captive	EC/SEIAA/2014-15/392/2014/602 dated 28/11/2014	24°05'34.14"N to 24°05'42.37"N 87°34'32.41"E to 87°34'49.40"E	Opencast
47	Working	Non-captive	EC/SEIAA/2014-15/502/2014/706 dated 31/12/2014	24°11'8.68"N to 24°11'14.13"N 87°34'29.00"E to 87°34'33.68"E	Opencast
48	Working	Non-captive	EC/SEIAA/2014-15/597/2015/1001 dated 02/06/2015	24°23'7.93"N to 24°23'12.60"N 87°28'41.76"E to 87°28'50.49"E	Opencast



**DISTRICT MINING OFFICER
DUMKA**

District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Dumka 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 date of grant of EC.	Location of the Mining lease (Latitude & Longitude)	Method of Mining (Opencast/Underground)
1	12	13	14	15	16
49	Working	Non-captive	EC/SEIAA/2018-19/2180/2019/596 dated 26.10.2019	24°11'34.42"N to 24°11'38.04"N 87 34'08.51" E to 87 34'14.63" E	Opencast
50	Working	Non-captive	EC/SEIAA/2023-24/2870/2023/163 dated 08-07-2023	24°11'02.27"N to 24°11'08.29"N 87 34'02.85" E to 87 34'09.77" E	Opencast
51	Working	Non-captive	EC/SEIAA/2020-21/2330/2020/37 dated 15-07-2021	24°10'35.75"N to 24°10'42.33"N 87 36'37.60" E to 87 36'43.87" E	Opencast



[Signature]
DISTRICT MINING OFFICER
 14 DUMKA g e

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



10 DETAILS OF ROYALTY OR REVENUE RECEIVED IN LAST THREE YEARS

Table 10-1:- ROYALTY OR REVENUE RECEIVED

Sl. No	Financial Year	Royalty Collected (INR Lakhs)
1	2021-22	3358.45
2	2022-23	6584.33
3	2023-24	15087.84

(Source District Mining Office)



**DISTRICT MINING OFFICER,
DUMKA**

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



11 DETAILS OF PRODUCTION OF MINOR MINERALS IN LAST THREE YEARS

Table 11-1:- PRODUCTION & DISPATCH

Sl. No.	Year	Production (in ft ³)	Dispatch (in ft ³)
1	2021-22	35069845.000	38476893.003
2	2022-23	76837230.500	63406199.898
3	2023-24	86784343.500	93077614.899

(Source District Mining Office)



**DISTRICT MINING OFFICER,
DUMKA**



12 MINERAL MAP OF THE DISTRICT

12.1 Mineral Wealth

There is immense possibility of establishment and development of mineral based industries in the district. The richness of the district and the socio-economic development of the entire district, largely depend on the scientific exploration and judicious utilization of its mineral resources. Therefore, the mining department at the district level was established to explore various minerals, regulate mining and to generate income from mineral exploitation.

High-grade rocks of Dumka area around Deoghar and beyond to the North east the region of high-grade rocks where the North-easterly strike of the Hazaribagh-Deoghar formations merge with the east-west strike of the Jharkhand Mica Belt. Structural mapping of about 1000 km² of the Central part of the Santhal Parganas district between Deoghar and Dumka in part of Toposheet 72 L/15 and 72 P/3 by Bhattacharya (1975-76) and by Roy and Mukhopadhyay (1962) has brought out several interesting features. The region may be taken as a type area of the high grade and domains in the NE part of the CGGC. Three broad groups can be distinguished in the Pre-cambrian sequence, the oldest folded metamorphites of high grade, a group of concordant basic intrusive, partially metamorphosed also to a high grade and third group of magnetitic Gneisses and Granitoids, locally syenitic. Band of Charnokitic rocks, though small in extend, represent a notable additional petrographic type. As in the rest of CGGC, the most dominant formation in the area are the Migmatitic Granite Gneiss, locally containing Sillimanite and mapped as Sillimanite Granite Gneiss and Hornblende Gneiss. The former consists of Plagioclase both Orthoclase and Microcline, Quartz, Biotite, Garnet and Iron oxide and accessory Zircon and Apatite. The Hornblende Gneiss contains additional greenish Brown Hornblende. The Gneisses carry veins of Epidote and Sphene, where traversed by fault zone. Intrusive into the migmatitic Granite Gneisses are porphyritic and Augen Gneisses, well foliated along their margins that have domical outline and are similar to the dome Gneisses in the other part of the sea CGGC. Syntitic varieties are recorded by Roy and Mukhopadhyaya (1992) in the vicinity of Jarmundi between Basukinath (Lat 240 24', Long: 870 05') Jarmua (Lat. 240 24', Long: 870 02').

The Gneissic and Granitic rocks host a U-shaped belt of Hornblende Gneisses, west of Jarmundi, in which elongated band of acid Charnokitic rock occur. These comprises Microcline Microperthite, Oligoclase, Quartz, Hyperssthene, Hornblende, Garnet, Iron oxide and subordinate Biotite and accessory Apatite and Zircon. Locally minor Muscovite develops from



**DISTRICT MINING OFFICER,
DUMKA**

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



Microcline. Hypersthene seems confined to Hornblende segregation and according to Bhattacharya may be a prograde transformation of the hornblende. Hypersthene also alerts to Biotite. The high grade metamorphites of areas occur as confident folded band in the migmatitic Gneisses. They comprise thin band of Sillimanite Schists, Felspathic Quartzite, Calc- Gneisses, Para-Amphibolites and Hornblende Gneisses. Though restricted in extend they have significance as relicts of an old metasedimentary sequence of resistive rock type and also help to bring out by their structural concordance the complex regional structure in CCGC.

The Sillimanite Schist with Garnet and Graphite, minor Biotite and accessory Zircon, have a Khondalitic affinity, and have been mapped as Khondalitic Schist by Bhattacharya (1976). They contain thin bodies of Garnet Granulite and locally contain Hypersthene and Spinel. The Felspathic Quartzite mainly comprises of Quartz with minor Plagioclase, Microcline-Orthoclase, Hornblende, Garnet.

Among the Calc and Magnesium metasediments, the Hornblende Gneisses grade into para-Amphibolites and both consists of acid Plagioclase, green Hornblende and Quartz with minor Biotite, Garnet, Epidote, Sphene and Iron oxide. They contain locally Garnet and Diopside. The formations are migmatized to Biotite Gneisses. These formation shows variations along strike to Calc silicates rocks, the compromise basic Plagioclase, greenish Diopsidic, Clinopyroxene, Quartz, pink Garnet and Sphene with minor green Spinel Iron oxide and Epidote and locally Calcite.

The metabasites occur as concordant bodies in the Gneisses and retain much of their original texture and mineralogy. They are marginally modified by metamorphism and felspathisation along the margins. These rock share much of the deformational history of the Gneisses hosting them and therefore are considered as syn to late tectonic to F1 deformation. They vary from porphyritic to granular (Norite) type. They consist of Hypersthene, Diopsidic Augite, and Plagioclase and minor amount of brown Hornblende, Olivine, Biotite, green Spinel and Garnet. Corona of Hornblende, Spinel and Garnet around Orthopyroxene are common. Olivine bearing meta-Dolerites and meta-Gabbros show both one-ply and two-ply coronae, the first fly being Enstatite and second an intergrowth of Amphibole and Spinel. Garnet forms Coronae around Hornblende. These mineral reactions imply a distinctive response of the normally dry basic rocks to metamorphism.



**DISTRICT MINING OFFICER,
DUMKA**



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

Anorthosite forms a large crescent shaped outcrop near Dumka. Minor bodies occur as concordant band in Gneisses and also as a Pigmatic intrusive vein in a Pyroxene Granulite band.




**DISTRICT MINING OFFICER,
DUMKA**

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



Figure 12-1:- Mineral Map Dumka district

(Source: JSAC, Deptt. of Mines & Geology, Govt. of Jharkhand)



**DISTRICT MINING OFFICER
DUMKA**

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



13 LIST OF LETTERS OF INTENT HOLDERS IN THE DISTRICT

Table 13-1:- LIST OF LETTERS OF INTENT

List of LOI Granted

Sl. No	Name of the Minerals	Name of the Lessee	Address & Contact No. Letter of Intent Holder	Letter of Intent Grant Order No. & Dated	Area of Mining lease to be allotted				Validity of LOI	Use (Captive / Non-Captive)	Location of the Mining lease (Latitude & Longitude)
					Block	Village	Plot No.	Area (In Acre)			
1	Stone	Anantdhara Construction Pvt. Ltd. Director-Shri Deepak Kumar Singh.	Anantdhara Construction Pvt. Ltd. Director- Shri Deepak Kumar Singh. S/o- Shri R.K Singh Add -Ravindrapath,Ranchi Patna Road, P.O+P.S-Sadar Hazaribagh, District- Hazaribagh Mobile no. - 7654143045	Letter no 1331 Date 04-11-2019	Shikaripara	Paharpur	1168, 1171	4.45	NA	Non-Captive	
2	Stone	Shri Baidyanath Rai,	Shri Baidyanath Rai, S/o- Late Lakhn Rai, Village-Manjirabadi, P.O-Ranga mission, Thana- Jama, Dist - Dumka Mobile no. - 9564677671	Letter no. 1250 Date 28-07-2020	Gopikander	Amarpur	637, 638, 639, 641, 642, 643, 644	5.6	NA	Non-Captive	
3	Stone	M/S Maa Stone Product. Partner- Shri Arjun Mandal, and others	M/S Maa Stone Product. Partner- Shri Arjun Mandal, S/o- shri Sharat Chandra Mandal Village- Chapudia, P.O-Asanbani, Dist- Dumka 2 Shri mahendra poddar, S/o-Sumeshwar Poddar, Village+ p o-Dewcha, Thana- Md., Bazar, Dist- Birblum(W B) 3. Shri Sanjeev Dey, S/o- Raghunath Dey, Village+P.O+P.S- Raneshwar, Dist - Dumka Mobile no:- 9734203670, 7488501757, 7004499829	Letter no. 1251 Date- 28.07.2020	Shikaripara	Kulkulidangal	517, 518, 519, 521(P)	3.47	NA	Non-Captive	



148 Page

DISTRICT MINING OFFICER
DUMKA

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



Sl. No	Name of the Minerals	Name of the Lessee	Address & Contact No. Letter of Intent Holder	Letter of Intent Grant Order No. & Dated	Area of Mining lease to be allotted				Validity of LOI	Use (Captive / Non-Captive)	Location of the Mining lease (Latitude & Longitude)
					Block	Village	Plot No.	Area (In Acre)			
4	Stone	Shri Rajesh Kumar	Shri Rajesh Kumar S/o- Late Ramji Prasad Bhagat. Add.- Harimati Apartment, Beside Hotel Green Park, Lalpur, Thana- Lalpur, Dist.- Ranchi, Jharkhand, 834001 Mobile no. -8969822933, 9431170725	Letter no, 1247 Date- 16.10.2019	Gopikander	Chotabathan Pahari	141(P), 142(P), 143, 148(P), 149(P), 150(P)	6.92	NA	Non-Captive	
5	Stone	M/S Mewar Enterprises, Prop- Om Prakash Sharma,	M/S Mewar Enterprises, Prop- Om Prakash Sharma, S/o- Shri Dal Chandra Sharma, Present Add.- Village-Pinargadiyan, P.O- Benagadiyan, Thana- shikaripada, Dist- Dumka, Permanent Add.- Village- Gadri Mohalla, Tehsil- Rampur, Dist- Bhitwara- 311801 Mobile no. - 9414396447, 9635764401, 980131028	Letter no. 941 Date- 18.06.2020	Shikaripara	Pokharia	1242(P)	3.1	NA	Non-Captive	
6	Stone	Shri Ramrup Bhagat,	Shri Ramrup Bhagat, S/o- Late Baidyanath Bhagat, Village- Teliyachak bazar, P.O- Kothikund , Thana- Kathikund, Dist- Dumka Mobile no. - 8969186870	Letter no. 758 Date- 31-05-2021	Gopikander	Rambani	55(P), 60(P)	6.76	NA	Non-Captive	
7	Stone	Mohd. Abdul Minan Ansari,	Mohd. Abdul Minan Ansari, S/o- Junus Miyan, Village- p.o- Sarasdangal, Thana- Shikaripada, Dist- Dumka Mobile no. - 9635979070	Letter no. 276 Date- 12-03-2024	Shikaripara	Baramsiya	1813, 1814, 1815, 1816, 1818, 1822, 1823, 1824, 1825.	4.09	NA	Non-Captive	



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



SL No	Name of the Minerals	Name of the Lessee	Address & Contact No. Letter of Intent Holder	Letter of Intent Grant Order No. & Dated	Area of Mining lease to be allotted				Validity of LOI	Use (Captive / Non-Captive)	Location of the Mining lease (Latitude & Longitude)
					Block	Village	Plot No.	Area (In Acre)			
8	Stone	Shristi Stone Works, Shri Dharmendra Kumar Singh.	Shristi Stone Works, Shri Dharmendra Kumar Singh, S/o- Shri Ramanad Singh, Permanent ADD,- 50/M Colony, Rajendranagar, P.O+P.S- Madhubani, Dist- Purnia, Bihar.854301 Present add - Village+P.O+P.S-Shikaripada, Dist- Dumka.816118 Mobile no. - 9304041622	Letter no. 311 Date- 13-03-2024	Shikaripara	Manjhladih	1376, 1377(P), 1378, 1379, 1395(P)	4.47	NA	Non-Captive	
9	Stone	Choto Budhrai Hansda, Father- Sidho	Choto Budhrai Hansda, S/o- Sidho hansda, Village- Mohalbana, P O-Pakdaha, Thana- Shikaripada, Dist- Dumka Mobile no. -9631777406	Letter no. 719 Date- 22-06-2024	Shikaripara	Salbona Pahar	137(P), 140(P), 141(P), 142(P).	6.12	NA	Non-Captive	
10	Stone	M/S Rudra minerals Prop- Shri Amar Mandal.	M/S Rudra minerals Prop- Shri Amar Mandal, S/o- Late Ramnarayan Mandal, Village- Sezakoda, P.O+P.S- Jama, Dist.- Dumka Mobile no. - 8972422988	Letter no. 725 Date- 27-06-2024	Shikaripara	Chirapathar	445, 425(P), 435, 437, 441(P), 442(P), 426, 433, 434, 438, 439, 440(P), 481, 482, 483, 428, 436, 484, 485.	3.66	NA	Non-Captive	
11	Stone	M/S Rudra minerals Prop- Shri Amar Mandal.	M/S Rudra minerals Prop- Shri Amar Mandal, S/o- Late Ramnarayan Mandal, Village- Sezakoda, P.O+P.S- Jama, Dist.- Dumka Mobile no. - 8972422988	Letter no. 723 Date- 27-06-2024	Shikaripara	Chirapathar	489, 490, 491, 492, 499, 502, 503, 504, 507, 508, 509, 510, 514, 515, 516(P), 517(P), 518(P), 519(P), 520(P), 1065, 1066	4.66	NA	Non-Captive	
12	Stone	M/S East India Stone Quarry, Prop.- Imran Khan.	M/S East India Stone Quarry, Prop.- Imran Khan, S/o- Imam Bakh, Village P.O.- Asanbani, Police Station- Raneshwar, District- Dumka Mobile no. - 9304403906	Letter no. 733 Date- 28-06-2024	Shikaripara	Chorbatiya	43/47, 45/50, 46/51, 47/ 47, 48/51, 3/10, 4/11, 8/9, 9/8, 2/2, 3/2, 4/2	5.64	NA	Non-Captive	



150

DISTRICT MINING OFFICER
DUMKA

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



SL No	Name of the Minerals	Name of the Lessee	Address & Contact No. Letter of Intent Holder	Letter of Intent Grant Order No. & Dated	Area of Mining lease to be allotted				Validity of LOI	Use (Captive / Non-Captive)	Location of the Mining lease (Latitude & Longitude)
					Block	Village	Plot No.	Area (In Acre)			
13	Stone	M/S Baba Basukinath Traders, Prop- Shri Santosh Kumar,	M/S Baba Basukinath Traders, Prop- Shri Santosh Kumar, S/o- Shri Anandi Singh, Permanent add- Gram + p.o-Sonkurha, Thana- Jamui, Dist- Jamui (Bihar) 811307 Present add- Ghat Rasikpur, Dudhani, Near UCO Bank, P.O+Thana -Dumka Mobile no. -9431783661	Letter no. 729 Date- 28-06-2024	Shikaripara	Aamchua	632, 640(P), 641, 642, 643, 644, 645, 646(P), 647(P), 648, 649, 650, 651, 656(P), 657(P)	5.3	NA	Non-Captive	
14	Stone	M/S Baba Basukinath Traders, Prop- Shri Santosh Kumar,	M/S Baba Basukinath Traders, Prop- Shri Santosh Kumar, S/o- Shri Anandi Singh, Permanent add- Gram + p.o-Sonkurha, Thana- Jamui, Dist- Jamui (Bihar) 811307 Present add- Ghat Rasikpur, Dudhani, Near UCO Bank, P.O+Thana -Dumka Mobile no. -9431783661	Letter no. 739 Date- 29-06-2024	Shikaripara	Salbona Pahar	255(P)	3.8	NA	Non-Captive	
15	Stone	Limeswood Construction Pvt. Ltd. Director- Avinash Kumar and others	Limeswood Construction Pvt. Ltd. Director- Avinash Kumar, S/o- Shri Sudeshwar Singh, Shri Ajeet Kumar Singh, Bhurbhura More, Rekhiya Road , Deoghar, Jharkhand 814112 Permanant add - Ranipur, P.O- Korara , Paliganj , Dist- Patna , 804401 2. Sanjay Kumar Singh, S/o- Shri Thakur Lalan Prasad Singh, Address-Flat No. -402 A, Jagsuman Apartment, Aryan Nagar, Kathal Mod Road, Pumdag, District-Ranchi, Jharkhand 834002. 3. Om Prakash Sharma, S/o- Shri Dalchandra Sharma, Village + P.O. - Ashaholi, Police Station-Raipur, District- Bhelbara, Rajasthan 311801 Mobile no. -8271105100	Letter no. 775 Date- 06-07-2024	Shikaripara	Hathbadi	1, 2, 3, 4(P), 6, 7, 8, 10, 11, 12, 13, 14, 15, 16(P), 17(P), 18, 19, 20, 23, 24, 25, 26, 28(P), 30(P), 31(P), 32(P), 35(P), 42(P)	6.9	NA	Non-Captive	



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



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					Block	Village	Plot No.	Area (In Acre)			
16	Stone	Mr. Shubham Keshari Father-Mr. Dilip Keshari	Mr. Shubham Keshari S/o- Mr. Dilip Keshari Village-Veniyagram P.O. Dakhalwadi, Police Station Bhadgram District-Birbhum (W.B) Mobile no. -8670368111	Letter no. 748 Date- 01-07-2024	Shikaripara	Salbona Pahar	147/part	7.27	NA	Non-Captive	
17	Stone	Mitoon Ansari	Mitoon Ansari S/o- Islam Miyan, Vill+Post - Sarsanthgal, Police Station Shikaripada, District Dumka, Mobile no. -9635142294	Letter no. 751 Date- 03-07-2024	Shikaripara	Salbona Pahar	144, 147(P)	5.4	NA	Non-Captive	
18	Stone	M/s Rudra Minerals, Prof. Shri Amar Madal.	M/s Rudra Minerals, Prof. Shri Amar Mandal, S/o- Late Ramnarayan Mandal Village- Sejakoda, Post +Ps- Jama, District Dumka Mobile no. - 8972422988	Letter no.771 Date- 05-07-2024	Shikaripara	Ramjam	515, 520	6.34	NA	Non-Captive	
19	Stone	Part-Deepak Kumar Singh, and others	Part-Deepak Kumar Singh, S/o- Late Rajeswari Singh Village + PO - Shikarimada, Police Station - Shikaripara 2, Josa Kisku, S/o- Late Hopna Kisku, Village - Majhlahidh P. Benagadia Police Station Shikaripara District of both - Dumka, Mobile no. - 9334998613	Letter no. 780 Date- 06-07-2024	Shikaripara	Manjhladh	718, 719, 720, 721(p)	3.27	NA	Non-Captive	



152
DISTRICT MINING OFFICER
DUMKA

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



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					Block	Village	Plot No.	Area (In Acre)			
20	Stone	M/s Baba Baidyanath Stone Works Part - Mrs. Priya Raj, and Others	M/s Baba Baidyanath Stone Works Part - Mrs. Priya Raj, S/o- Nithalu Prasad, Village-Thadivulampur, Po-Devsandh Thatta - Kunda, District-Deoghar. 2. Mohd. Anwarul Ansari, S/o- Hannas Asari, Village-Torai, P.O Police Station-Hiranpur District-Pakur, Jharkhand-816104 Mobile no. - 9431134488	Letter no. 788 Date- 09-07-2024	Shikaripara	Manjhladih	1374, 1383, 1384, 1385, 1387 p. 1388, 1389	4.48	NA	Non-Captive	
21	Stone	M/s Maa Sheela Stone Works, Part-Shri Sanjay Kumar Yadav, and Others	M/s Maa Sheela Stone Works, Part-Shri Sanjay Kumar Yadav, S/o- Shri Dwarika Prasad Yadav, Village-Rampur Karara, P.O. Sakrigalighat, Thana-Mufsil Sahebganj, District-Sahebganj 816115 2. Islam Miyan, S/o- Sohrab Miyan, Village-Saharpur, P.O.-Benagadia, Police Station-Shikaripara, District-Dumka, 816103 3. Raju Ansari, S/o- Late Nazrul Hussain, Village PO-Sarasdangal, Police Station-Shikaripara, District-Dumka, Mobile no. -9661385597, 9123470783	Letter no. 786 Date- 09-07-2024	Shikaripara	Chandanagaria	933, 938, 939, 940, 941/Part and 942	6.99	NA	Non-Captive	
22	Stone	Shri Dipesh Kumar,	Shri Dipesh Kumar, S/o- Shri Dhananjay Kumar Das, Village-Khushbandh, Near Durga Temple, P.O Police Station-Dumka, District-Dumka 814101 Mobile no. -7048975040	Letter no. 787 Date- 09-07-2024	Gopikander	Rambani	369/ part	6.00	NA	Non-Captive	



**DISTRICT MINING OFFICER,
DUMKA**

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



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					Block	Village	Plot No.	Area (In Acre)			
23	Stone	Mr. Ritesh Kumar,	Mr. Ritesh Kumar, S/o- Mr. Dhananjay Kumar Das, Village-Khushbandh, Near Durga Temple, P.O. Police Station-Dumka, District-Dumka 814101 Mobile no. -9971864945	Letter no. 793 Date- 09-07-2024	Gopikander	Pindargadia	195, 196	4.98	NA	Non-Captive	
24	Stone	Jyoti Construction and Engineering Pvt. Ltd. Director - Mr. Ranjit Kumar, Director - Mr. Ranjit Kumar, and Others	Jyoti Construction and Engineering Pvt. Ltd. Director - Mr. Ranjit Kumar, S/o- Mr. Ram Yash Rai, Mr. Surjeet Kumar, Father - Late Ram Vandana Singh. Address of both - House No. A/3, Vivekananda Park Lane, ASI Palliputra Colony, Patna - 800013 Mobile no. - 7033694270	Letter no. 825 Date- 15-07-2024	Shikaripara	Salbona pahar	159/part, 160, 161/part and 162	5.06	NA	Non-Captive	
25	Stone	M/s East India Stone Quarry, 2 Prop. Imran Khan,	M/s East India Stone Quarry, 2 Prop. Imran Khan, S/o - Imam Bash, Village P.O.- Asanbani, Police Station- Raneshwar, District- Dumka, Mobile no. - 9304403906	Letter no. 824 Date- 15-07-2024	Saraiyahaat	Chorbatia	44/49, 59/67, 61/69, 62/70, and 63/71	3.6	NA	Non-Captive	
26	Stone	Amit Kumar Dokanian	Amit Kumar Dokanian S/o-Shri Ramesh Kumar Dokanian, Village- Sabji Mandi Road, P.O Police Station- Barharwa, District-Sahebganj Mobile no. -9973854204	Letter no. 844 Date- 20-07-2024	Shikaripara	Chandanagaria	39, 40, 44, 46, 47, 48, 49, 50, 51 and 52	7.4	NA	Non-Captive	
27	Stone	Mohd. Alam Ansari	Mohd. Alam Ansari S/o- Mohd. Ghulam Ansari Village-Kalakata, P.O.-Patjor, Police Station-Raneshwar, District-Dumka, Mobile no. -9064028450	Letter no. 915 Date- 06-08-2024	Shikaripara	Salbona Pahar	240, 241, 242, 247 and 248	5.8	NA	Non-Captive	
28	Stone	Shri Balaji Stone and Minerals Project (O.P.), Pvt. Ltd., Director Shri Nayan Kumar Mandal	Shri Balaji Stone and Minerals Project (O.P.), Pvt. Ltd., Director Shri Nayan Kumar Mandal, S/o- Late Dulal Mandal, Village Post - Kathalia, Police Station Masliya, District - Dumka Mobile no. -8084208380	Letter no. 837 Date- 19-07-2024	Shikaripara	Paharpur	957/part, 1223, 1224, 1225/part, 1227/part, 1231, 1234, 1236 and 1237	7.37	NA	Non-Captive	



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



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					Block	Village	Plot No.	Area (In Acre)			
29	Stone	Shri Vijay Prasad Bhagat.	Shri Vijay Prasad Bhagat, s/o Late Sudama Prasad Bhagat, Village-Kharauni Bazar, Post-Kasdih, Thana-Gopikander, District-Dumka. Mobile no. -8996791013	Letter no. 849 Date- 20-07-2024	Gopikander	Chatarchuan	799, 800, 802, 803, 900, 901, 902, 905, 906, 907 and 909	6.65	NA	Non-Captive	
30	Stone	M/s Bol Bam Stone Products Prop. Chandradev Goswami	M/s Bol Bam Stone Products Prop. Chandradev Goswami S/o-Shri Bhavataran Goswami Village-Pratappur, P.O-Rajbandh Plassey, Police Station-Shikaripara, District-Dumka. Mobile no. -8145163377	Letter no.846 Date- 20-07-2024	Shikaripara	Chitragadiya	412, 413, 414, 415, 417, 418, 419, 420, 433, 434, 435, 436, 437 and 438	2.88	NA	Non-Captive	
31	Stone	M/s. Ganpati Stone Works, Part-Shri Sanjay Kumar Mandal and Others	M/s. Ganpati Stone Works, Part-Shri Sanjay Kumar Mandal, S/o Late Sushil Mandal, Village-Kharauni Bazar, Post-Karudih, Thana-Gopikander, District-Dumka 2. Shri Sandeep Kumar, S/o-Shri Manohar Prasad Sah, Village-Dangalpara, Hijla Road, Post Thana District-Dumka. Mobile no. -8340171269]	Letter no. 774 Date- 05-07-2024	Gopikander	Sugapahari	201/part	3.54	NA	Non-Captive	
32	Stone	Jyoti Construction and Engineering Pvt. Ltd. Director- Mr. Ranjit Kumar, and others	Jyoti Construction and Engineering Pvt. Ltd, Director- Mr. Ranjit Kumar, S/o- Mr. Ram Yash Rai, Mr. Surjit Kumar, S/o-Late Ram Vandan Singh, Address of both - House No. A/3, Vivekananda Park Lane ASI Palliputra Colony Patna 800013 Mobile no. - 7033694270	Letter no. 836 Date- 19-07-2024	Shikaripara	Salbona Pahar	267/Part, 268/Part, 270/Part, 271/Part, 272/Part and 273/Part	5.67	NA	Non-Captive	



1554 Part
DISTRICT MINING OFFICER.
DUMKA

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



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					Block	Village	Plot No.	Area (In Acre)			
33	Stone	Maa Ambe Stone Products Prop. Shri Ajay Kumar Bhagat	Maa Ambe Stone Products Prop. Shri Ajay Kumar Bhagat, S/o- Shri Vajinath Bhagat Village PO- Gampura, Police Station- Pakudiya, District Pakur, Mobile no. -7908635106	Letter no. 839 Date- 19-07-2024	Shikaripara	Manjhladih	730, 734, 735, 736, 737, 738, 748/part and 749/part	6.56	NA	Non-Captive	
34	Stone	Mr. Rajneesh Gupta,	Mr. Rajneesh Gupta, S/o- late Rajendra Prasad Gupta, Village Uttarmathpada ward no. 13 Post Police station Rampurhat, District Birbhum (Pt. No.) 731224 Mobile no. -8250653683	Letter no. 858 Date- 23-07-2024	Shikaripara	Porawasuri	828, 829, 830, 831, 832, 833, 869, 870, 871, and 872.	6.88	NA	Non-Captive	
35	Stone	Mr. Rakesh Kumar Yadav,	Mr. Rakesh Kumar Yadav, S/o- Mr. Anupalal Yadav, Village Aliganj Ward No. 13, Post Police Station District Banka, State Bihar, 813102 Mobile no. -8271105100	Letter no. 838 Date- 19-07-2024	Shikaripara	Bhelatand	2258, 2259, 2260/P, 2261, 2262, 2263, and 2264	4.23	NA	Non-Captive	
36	Stone	Shri Ramesh Kumar Dokanian,	Shri Ramesh Kumar Dokanian, S/o-Vegetable Mandi Road, P.O Police Station-Barharwa, District-Sahebganj, Mobile no. -9973854204	Letter no. 845 Date- 20-07-2024	Shikaripara	Chandangaria	21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 36, 37, 38, 42 and 43	4.8	NA	Non-Captive	
37	Stone	M/s Satya Construction, Prop. Sheeljit Kumar Singh,	M/s Satya Construction, Prop. - Sheeljit Kumar Singh, S/o-Surendra Singh, Village-Shastri Nagar, Bandarjori, P.O. Dumka, District-Dumka, Mobile no. -8709935328	Letter no. 818 Date- 13-07-2024	Shikaripara	Kendpahari	917, 918, 919, 920, 921 and 925	3.01	NA	Non-Captive	
38	Stone	Islam Miyan	Islam Miyan S/o-Sohrab Miyan, Village-Shaharpur, P.O.- Benagadiya Police Station-Shikaripara, District-Dumka, Mobile no. -8967740501	Letter no. 902 Date- 05-08-2024	Shikaripara	Salbona Pahar	138, 139 and 147/ part	7.39	NA	Non-Captive	



**DISTRICT MINING OFFICER,
DUMKA**

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



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					Block	Village	Plot No.	Area (In Acre)			
39	Stone	Shiv Kumar Vaski	Shiv Kumar Vaski S/o-Late Bhatal Vaski Village-Manka Pahari, P.O-Nishchintpur, Police Station-Jama, District-Dumka 814110 Mobile no. -6299242496 6205578789	Letter no. 924 Date- 08-08-2024	Shikaripara	Aamchuan	64, 65, 68, 69, 70, 71, 72, 73, 77, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127 part, 128, 129 and 131	6.84	NA	Non-Captive	
40	Stone	Nihar Khan	Nihar Khan S/o-Nikhil Chandra Khan Village-Makdapahari, P.O.-Sarsdangal, Police Station-Shikaripara, District-Dumka. Mobile no. - 7667056959, 6295667036	Letter no. 931 Date- 08-08-2024	Shikaripara	Salbona Pahar	148, 150/part, 151 and 152-part	4.01	NA	Non-Captive	
41	Stone	M/s Varun Singh Sisodia Pvt. Ltd., Managing Director Mr. Varun Singh.	M/s Varun Singh Sisodia Pvt. Ltd., Managing Director Mr. Varun Singh. S/o- Mr. Kumar Bharat, Permanent Address 12 Kishore Bhawan, Justice Mandal Path D.A.B. East of School Rajvanshi Nagar, Patna (Bihar) 800023 Mobile no. - 7204600007	Letter no. 946 Date- 12-08-2024	Shikaripara	Chnadangadiya	905 part, 906 part, 907, 908, 909, 910, 911, 912 part, 918 part, 919, 920 part, 921 part and 922 part.	5.19	NA	Non-Captive	
42		M/S Johar Stone Products Pvt. Ltd., Part-Shri Amit Mandal, and others	M/S Johar Stone Products Pvt. Ltd., Part-Shri Amit Mandal, S/o- Shri Arjun Mandal, Village Post Asanbani, Police Station Rameshwar, District Dumka, Shri Shashthi Pad Mandal, S/o- Shri Sujal Chandra Mandal, Village Post Asanbani, Police Station Rameshwar, District Dumka. Mobile no. - 9110966297	Letter no. 939 Date- 10-08-2024	Shikaripara	kurunda	227, 228, 229, 230, 231, 232, 234, 235, 236 and 237	4.57	NA	Non-Captive	
43		M/S Three Star Stone Works, Prop. Daniel Tudu,	M/S Three Star Stone Works, Prop. Daniel Tudu, S/o- Late Prabhu Tudu, Address - Old Dumka, P.O Police Station District - Dumka Mobile no. - 8102798253	Letter no. 947 Date- 12-08-2024	Shikaripara	Haripur	401/Part, 402, 403, 404, 405, 406, 407/p, 408, 413/p, 446/p, 470/p and 471/p	5.95	NA	Non-Captive	



**DISTRICT MINING OFFICER,
DUMKA**

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



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					Block	Village	Plot No.	Area (In Acre)			
44		Shri Vinod Kumar Singhaniya, father Late	Shri Vinod Kumar Singhaniya, S/o- Late Hariprasad Singhaniya, Address- Schoolpara, Post Police Station District Dumka. Mobile no. -8709738022	Letter no. 948 Date- 12-08-2024	Shikaripara	Shahrpur	115, 116, 117/part, 119, 120, 121, 122 and 365	3.60	NA	Non-Captive	
45	Stone	M/s Spartan Mining Part-Shri Sachin Kumar Das and others.	M/s Spartan Mining Part-Shri Sachin Kumar Das, S/o- Vishwanath Das Village-Rangamasahia Dalahi, P.O.-Kendghata Police Station-Masalia, District Dumka. 2. Mustafa Miyan, S/o-Safur Miyan, Village-Devwaha, PO-Banspahari, Police Station-Shikaripara, District of both - Dumka. Mobile no. - 7979752957 6205704759	Letter no. 952 Date- 12-08-2024	Shikaripara	Manjhladih	742, 743/Part, 747/Part	4.08	NA	Non-Captive	
46		Mohd. Abdussalam Ansari,	Mohd. Abdussalam Ansari, S/o- Md. Ghulam Rasul, Village-Kalakata, P.O.-Patjor, Police Station-Raneshwar, District-Dumka, Mobile no. - 9279065404	Letter no. 963 Date- 16-08-2024	Shikaripara	Barmasia	1886, 1892, 1893, 1894, 1897 and 1945, 1944	3.71	NA	Non-Captive	
47	Stone	Part-1. Arun Kumar Sah and others	Part-1. Arun Kumar Sah, Father - Late Balgobind Sah, Village PO-Shikaripara, Police Station-Shikaripara, District-Dumka. 2. Lal Babu Ansari, Father-Yasin Ansari, Village-Dakopada, P.O-Nimdaspur, Police Station-Mo Bazar, District-Birbhum (W.B) Mobile no. -8918331663	Letter no. 959 Date- 16-08-2024	Shikaripara	Paharpur	818, 819, 820, 821/Part, 822/Part, 823/Part and 824/Part	5.84	NA	Non-Captive	
48	Stone	Hanuman Singh,	Hanuman Singh, S/o-Bishna Ram, Village-Kuloth Khurd, P.O.-Surajgarh Kuloth Khurd, Kuloth Kala, Police Station-Surajgarh, District-Jhujhun (Rajasthan) 333033 Mobile no. -8239062690	Letter no. 960 Date- 16-08-2024	Shikaripara	Salbona Pahar	123 part	3.7	NA	Non-Captive	



158 Page
**DISTRICT MINING OFFICER,
 DUMKA**

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



Sl. No	Name of the Minerals	Name of the Lessee	Address & Contact No. Letter of Intent Holder	Letter of Intent Grant Order No. & Dated	Area of Mining lease to be allotted				Validity of LOI	Use (Captive / Non-Captive)	Location of the Mining lease (Latitude & Longitude)
					Block	Village	Plot No.	Area (In Acre)			
49	Stone	Santosh Yadav,	Santosh Yadav, S.o- Shri Prayag Yadav. Village- Charneel, P.O. Devchanda, Police Station- Barhi, District- Hazaribagh, 825405 Mobile no. - 7033918186	Letter no. 961 Date- 16-08-2024	Shikaripara	Saharpur	187 Part, 188/Part, 189/Part, 190, 191, 192, 193/Part, 194, 195, 196, 197/Part, 218/Part and 219	6.07	NA	Non-Captive	
50	Stone	M/s Jai Baba Bajrangbali Stone Mill, Prop. Shri Tapas Bhagat.	M/s Jai Baba Bajrangbali Stone Mill, Prop. Shri Tapas Bhagat, S.o- Shri Harishankar Bhagat, Village Nishatpur, Near Holihome School, P.O.- Rampurhat, District-Virbhum (W.B) Mobile no. -7001640646	Letter no 968 Date- 17-08-2024	Shikaripara	Salbona pahar	260/Part, 261/Part, 263, 264 and 265/Part	5.10	NA	Non-Captive	
51	Stone	Mr. Aman Singh,	Mr. Aman Singh, S/o- Late Ranveer Singh, Village Janugadiya, Post Pratappur, Police Station Shikaripada, District Dumka, Jharkhand, Pin 816118 Mobile no. -9955596781	Letter no. 969 Date- 17-08-2024	Shikaripara	Manjhladih	1344/part, 1345, 1368, 1369, and 1372	4.8	NA	Non-Captive	
52	Stone	Shri Mahesh Yadav,	Shri Mahesh Yadav, S/o- Shri Rameshwar Yadav, Permanent Address Satdiha, Post Samatand, Dhana Jaynagar, District Koderma, Present Address Sarasdangal, Police Station Shikaripada, District - Dumka, Mobile no. - 7979073134	Letter no. 970 Date- 17-08-2024	Shikaripara	Chitragadiya	1606, 1607, 1608, 1609, 1611, 1620/part, 1621, 1622, 1623, and 1624	4.25	NA	Non-Captive	
53	Stone	Shri Sanjay Kumar Sah,	Shri Sanjay Kumar Sah, Father-Shri Munilal Sah, Village PO-Palajori, Police Station-Palajori, District-Deoghar, Mobile no. - 9572724127	Letter no. 971 Date- 17-08-2024	Masaliya	Amba	410, 411 and 415	3.17	NA	Non-Captive	



159 | Page
**DISTRICT MINING OFFICER -
 DUMKA**

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



SL No	Name of the Minerals	Name of the Lessee	Address & Contact No. Letter of Intent Holder	Letter of Intent Grant Order No. & Dated	Area of Mining lease to be allotted				Validity of LOI	Use (Captive / Non-Captive)	Location of the Mining lease (Latitude & Longitude)
					Block	Village	Plot No.	Area (In Acre)			
54	Stone	Jyoti Construction and Engineering Pvt. Ltd. Director Mr. Ranjit Kumar.	Jyoti Construction and Engineering Pvt. Ltd. Director Mr. Ranjit Kumar. S/o- Mr. Ram Yash Rai, Mr. Surjit Kumar. Father - Late Ram Vandan Singh. Both Address House No. A 3, Vivekananda Park Lane ASI Patliputra Colony Patna 800013 Mobile no. -7033694270	Letter no. 972 Date- 17-08-2024	Shikaripara	Salbona Pahar	147(P)	6.94	NA	Non-Captive	
55	Stone	Shri Shardindu Mal,	Shri Shardindu Mal, S/o- Shri Kanhai Mal. Village-Chaklamadh, Rampurhat, P.O Police Station-Rampurhat, District-Virbhum (W.B.) Mobile no. -6294479001	Letter no. 973 Date- 17-08-2024	Shikaripara	Manjhladih	1289/P, 1292/P, 1293, 1355/P, 1356, 1357 p, 1358 1360/P, 1366/P and 1367/P	7.39	NA	Non-Captive	
56	Stone	Shri Rana Rakesh Pratap Singh	Shri Rana Rakesh Pratap Singh S/o- Shri Rana Ranjay Pratap Singh. Village-Grant State, Police Station District- Dumka, Jharkhand Mobile no. - 7004963991	Letter no. 977 Date- 20-08-2024	Shikaripara	Chandangadiya	947/Part, 948/Part, 949/Part, 964/Part and 966/Part	5.49	NA	Non-Captive	
57	Stone	Mr. Hans Raj,	Mr. Hans Raj, S/o- Mr. Naveen Kumar, Village-Khapura, P.O -Pakdiwarawan, Police Station Pakdiwarawan, District-Navada, Bihar. Mobile no. -9102107012	Letter no. 984 Date- 22-08-2024	Shikaripara	Salbona pahar	121 part, 122 and 123 part	4.63	NA	Non-Captive	
58	Stone	Pratyushadhar Jha	Pratyushadhar Jha S/o- St. Vidyadhar Jha, Village- Near Central Jail, Grant State Dumka, Police Station District-Dumka. Mobile no. -8340404828	Letter no. 1000 Date- 28-08-2024	Shikaripara	Lowapada	93, 94, 95 part and 148 part	5.7	NA	Non-Captive	
59	Stone	Jai Vishnu Stone Product, Prop. Shri Virendra Saw,	Jai Vishnu Stone Product, Prop. Shri Virendra Saw, S/o- Late Govind Saw Bhimedihi, Post Police Station Navalsahi, District- Koderna) Mobile no. - 9304953189	Letter no. 1002 Date- 28-08-2024	Shikaripara	Chitragadiya	37, 38, 39/parts, 41, 42, 43 and 49	5.30	NA	Non-Captive	



**DISTRICT MINING OFFICER,
DUMKA**

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



SL No	Name of the Minerals	Name of the Lessee	Address & Contact No. Letter of Intent Holder	Letter of Intent Grant Order No. & Dated	Area of Mining lease to be allotted				Validity of LOI	Use (Captive / Non-Captive)	Location of the Mining lease (Latitude & Longitude)
					Block	Village	Plot No.	Area (In Acre)			
60	Stone	Vinit Stone Part-Shri Manoj Kumar Singh (Pahadia) and others	Vinit Stone Part-Shri Manoj Kumar Singh (Pahadia) S/o-Late Devendra Singh, Village-Naharpark (IIC Colony) P.O. Police Station District-Dumka, 2. Dijan Dehri, S/o-Hado Dehri, Village-Sugapahari, P.O-Dharampur, Police station-Gopikamdar, District-Dumka, Mobile no. -9955362344	Letter no. 1009 Date- 29-08-2024	Gopikander	Sugapahari	02 and 03	5.05	NA	Non-Captive	
61	Stone	Swastik Mining Agency, Part.- Nehal Kumar Chavda, and others	Swastik Mining Agency, Part - Nehal Kumar Chavda, S/o-Late Jitendra Kumar Chavda, Village- Post - Bakudi, police station+ District -Sahebganj, Tinpahar, 2. Ultam Kumar Singh, S/o- Satyendra Singh, Village+ Post -Rajmahal, District -Sahebganj, 3. Sandeep Kumar Mahato, S/o-Shri Aklu Prasad Mahato, Village- Kathghar, Post- Mansinghpur, Police Station+ District -Sahebganj, Mobile no. -9931178629	Letter no. 1014 Date- 31-08-2024	Shikaripara	Chandangadiya	924 part, 925, 926 part, 927, 931 part, 932 part, 934, 936 part, 951 part, and 952 Part	7.21	NA	Non-Captive	
62	Stone	Shri Ravi Shakar Kumar,	Shri Ravi Shakar Kumar, S/o- Shri Upendra Prasad Singh, House No. 298, Ward No. 04, Address -Near Singh Vorwell, Williams Town, Shri Krishnapuri Deodhar, Post Police Station District Deodhar, 814112 Mobile no. -8084552155	Letter no. 1015 Date- 31-08-2024	Shikaripara	Chandipur	77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97 and 98	6.51	NA	Non-Captive	



16/11 Page

DISTRICT MINING OFFICER,
DUMKA

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



SL No	Name of the Minerals	Name of the Lessee	Address & Contact No. Letter of Intent Holder	Letter of Intent Grant Order No. & Dated	Area of Mining lease to be allotted				Validity of LOI	Use (Captive / Non-Captive)	Location of the Mining lease (Latitude & Longitude)
					Block	Village	Plot No.	Area (In Acre)			
63	Stone	Part.- Kalim Ansari and others	Part.- Kalim Ansari, father Hasil Mian. Village-Thakarapur, Post -Kolha, Thana-Kathikund, District- Dumka, 814103 2. Md. Wahid Alam, Late Mohd. Moziur Rahman, Village- Dr. Pass. D.N Shah Salempur, Soturkhana, Police Station -Bank. Post Office- Molusil Munger. District Munger, (Bihar). Mobile no. -8709738022	Letter no. 1045 Date- 12-09-2024	Shikaripara	Saharpur	136, 138/part, 139, 140, 146/part, 147, 148, 149 and 150	4.66	NA	Non-Captive	
64	Stone	Vikram Sharma,	Vikram Sharma, S/o- Shri Gakul Mistry, Address Rasikpur Ward No. 01. Post Police Station District Dumka, State Jharkhand 814101 Mobile no. -7004156336	Letter no.1051 Date- 12-09-2024	Shikaripara	Dimbadaha	86/part, 87, 88, 90/part, 93/part, 94/part, 95, 96, 97, 98, 99, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114 and 116.	4.89	NA	Non-Captive	
65	Stone	M/s Shiv Shankar Enterprises. Part.-Shri Vidit Kumar, and others	M/s Shiv Shankar Enterprises. Part.-Shri Vidit Kumar, S/o-Shri Virendra Veer, Village-Subhash Bazaar, 1175 Kabli Gate, District-Meerut (Uttar Pradesh) 2. Deepak Kumar, S/o-Shri Ashok Kumar Jaiswal, Address-H.G. Housing Colony No. - 11, Police Station-Kortmod, District-Dhanbad. Mobile no. -8825265861	Letter no. 1065 Date- 18-09-2024	Gopikander	Rambani	139, 140, 141, 142 and 217	4.96	NA	Non-Captive	
66	Stone	Sanjay Prasad Singh.,	Sanjay Prasad Singh., S/o- Shri Rajnandan Singh. Address- Gaushala Road 2nd Floor. Opposite Karbala, Post Police Station District Dumka. Mobile no. -9816162520	Letter no. 1059 Date- 13-09-2024	Shikaripara	Manjhladih	1305/Part, 1309, 1310, 1311, 1312, 1313 and 1319	7.25	NA	Non-Captive	




DISTRICT MINING OFFICER -
DUMKA Page

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



SL No	Name of the Minerals	Name of the Lessee	Address & Contact No. Letter of Intent Holder	Letter of Intent Grant Order No. & Dated	Area of Mining lease to be allotted				Validity of LOI	Use (Captive / Non-Captive)	Location of the Mining lease (Latitude & Longitude)
					Block	Village	Plot No.	Area (In Acre)			
67	Stone	M/s Alliance Info & Mines, Part-Shri Sanjay Kumar Verma and Others	M/s Alliance Info & Mines, Part-Shri Sanjay Kumar Verma, S/o-Late Kailash Prasad Verma, Village P O Police Station-Shikaripara ,District-Dumka. 2. Shri Ashutosh, S/o-Shri Mahanand Choudhary, Address-House No. 41, S.F.R. H.S. Lane No. 02, Behind Laxmi Nagar Sai Mandir, East Delhi 110002. 3. Mohd. Irfan, S/o-Mohammed Israr Pala-House No. 41, H. No. 137/12, 2nd Floor, Lane No. 04 Block A/2 West Santnagar, Burari North Delhi-110084 Mobile no. -6207140379	Letter no. 1073 Date- 18-09-2024	Shikaripara	Salbona Pahar	164/part and 165/part	1.986	NA	Non-Captive	
68	Stone	Shri Mrityujay Kumar,	Shri Mrityujay Kumar, S/o-Ramdarsh Sharma, Village+P.O - Gorkhadi, Police Station- Vikram, District-Patna (Bihar) 801104 Mobile no. -7903395337	Letter no. 1085 Date- 21-09-2024	Shikaripara	Chirapathar	416, 417, 418 Part, 419, 420, 634, 635, 636, 670, 671, 673, 674, 675, 676, 677, 678, 679, 688 and 689	3.74	NA	Non-Captive	
69	Stone	Shri Ajit Kumar Singh,	Shri Ajit Kumar Singh, S/o- Shri Govardhan Prasad Singh, Narodih, Post Chakai, Police Station - Chakai, District Jamui (Bihar) Mobile no. -9771392264	Letter no. 1087 Date- 21-09-2024	Shikaripara	Chandipur	29, 30, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 70 and 71.	5.19	NA	Non-Captive	
70	Stone	M/s Tudu Stone Works, Prop.- Shri Patras Tudu.,	M/s Tudu Stone Works, Prop. Shri Patras Tudu., S/o- Late Kanu Tudu, Address- Champanagar Grant State, Post Police Station District Jharkhand 814101 Dumka, Mobile no. -6200073109	Letter no. 1088 Date-21-09-2024	Shikaripara	Barmasia	1862, 1863, 1864, 1871, 1872, 1874, 1875, 1877, 1878, 1879, 1880, 1881, 1882, 1883, and 1884	5.55	NA	Non-Captive	



**DISTRICT MINING OFFICER
DUMKA**

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



SL No	Name of the Minerals	Name of the Lessee	Address & Contact No. Letter of Intent Holder	Letter of Intent Grant Order No. & Dated	Area of Mining lease to be allotted				Validity of LOI	Use (Captive / Non-Captive)	Location of the Mining lease (Latitude & Longitude)
					Block	Village	Plot No.	Area (In Acre)			
71	Stone	M/s Universal Black Stone Works, Prop. -Mohd. Asad Ali	M/s Universal Black Stone Works, Prop. Mohd. Asad Ali, S/o - Late Masahuli, Village Post Pimargadia, Thana-Shikaripara, District Dumka, 816103 Mobile no. - 9933118317	Letter no. 1086 Date- 21-09-2024	Shikaripara	Shahrpur	170/Part, 171/Part, 172/part, 173/part, 174/Part, 175 part, 181 and 182	4.89	NA	Non-Captive	
72	Stone	Sanjala Besra	Sanjala Besra, S/o- Late Charan Besra, Vill - Kuchibona, Post - Maluti, Ps - Shikaripara, Dist - Dumka Mobile no. - 9153003063	Letter no. 1093 dt. 24.09.2024	Shikaripara	Porawasuri	875, 877, 880/p, 881, 882, 884, 886, 887, 888/p, 890 and 891	6.37	NA	Non-Captive	
73	Stone	Rajendra Pd, Agrawal	Shri Rajendra Pd, Agrawal S/o- Late Banwarilal Agrawal, At - Balaji Gangej, Block B, 102A, 105D, Vidhan Nagar Road, Kolkata - 700067 (W.B.) Mobile no. - 9732009511	Letter no. 1091 dt. 24.09.2024	Shikaripara	Amchuwan	902/P	6.84	NA	Non-Captive	
74	Stone	M/s Ganesh Stone Works, Part - Shri Manik Chandra Maheswari and others	M/s Ganesh Stone Works, Part - Shri Manik Chandra Maheswari, S/o - Late Shyam Sunder Maheswari, At - Sarai Road, PS+Post+Dist - Dumka, Shri - Suman Mandal, S/o - Shri Nav Kumar Mandal, Village - Arbind Palli (S.P. More) Post+Ps - Suri, Dist - Birbhum (W.B.) Mobile no. -8521791939	Letter no. 1102 dt. 26.09.2024	Shikaripara	Sulibona	345, 346, 347, 348, and 349	7.39	NA	Non-Captive	



**DISTRICT MINING OFFICER,
DUMKA**

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



Sl No	Name of the Minerals	Name of the Lessee	Address & Contact No. Letter of Intent Holder	Letter of Intent Grant Order No. & Dated	Area of Mining lease to be allotted				Validity of LOI	Use (Captive / Non-Captive)	Location of the Mining lease (Latitude & Longitude)
					Block	Village	Plot No.	Area (In Acre)			
75	Stone	M/s P.M.S. Enterprises, Part - Shri Haris Mandal and Others	M/s P.M.S. Enterprises, Part - Shri Haris Mandal, S/o - Ram Kumar Mandal, Vill - Pagudih, Post - Bena, Ps - Dist - Jamtara. 2. Shri Shiv Kumar Gopal Krishna Menan, S/o - Gopal Krishna Menan, At - 205, Dosti Paradies Stela, Near Petrol Pumb Barampur, Basai Road Paschim Thane Mumabai - 401202. 3. Gulam Mustafa, S/o - Late Nawadulla Miyan, Vill - Parsimla, Post - Pahrudih, Ps - Masanjor, Dist - Dumka Mobile no. - 7909024159	Letter no. 1103 dt. 26.09.2024	Shikaripara	Chandipur	52/p. 53, 54, 55, 56, 57, 63/p. 64 and 66	7.37	NA	Non-Captive	
76	Stone	Harinandan Choudhary	Shri Harinandan Choudhary, S/o - Late Bindeswari Choudhary, At - Bhagalpur Road Dudhani, Dumka Post+Ps+Dist - Dumka Mobile no. - 9801310245	Letter no. 1104 dt. 26.09.2024	Gopikandar	Chattarchuwan	516/p. 517/p. 518/p. 519/p. 520, and 521	4.37	NA	Non-Captive	

(Source: - District Mining Office, Dumka)



AJ
DISTRICT MINING OFFICER
DUMKA / Page

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



14 TOTAL MINERAL RESERVE AVAILABLE IN THE DISTRICT

The geology of the area is mainly comprised of Chhotanagpur Gneissic Complex which cover the most part of the Dumka district. These basement rocks are traversed by Dolerite dyke and Pegmatites. Therefore, most of the mining activity revolve around Stone mining. Dumka district is rich in many Minor minerals Such as Granite Gneiss, Dolerite and Quartz/Feldspar etc. Sand mining also prevalent in many River channels of the district.

At present, based on existing EC mining leases of Stone and available Mining Plans (51 registered mining leases) being carrying out to produce a total **19853839.72 m3 47722673.69** Tonnes of Stone in the Dumka district. The Letter of Intent (LoI) have been issued to **122** Nos. of applicant for Stone mining in the district. However, there are **42** Nos. of potential Stone deposit have been identified in Dumka district.

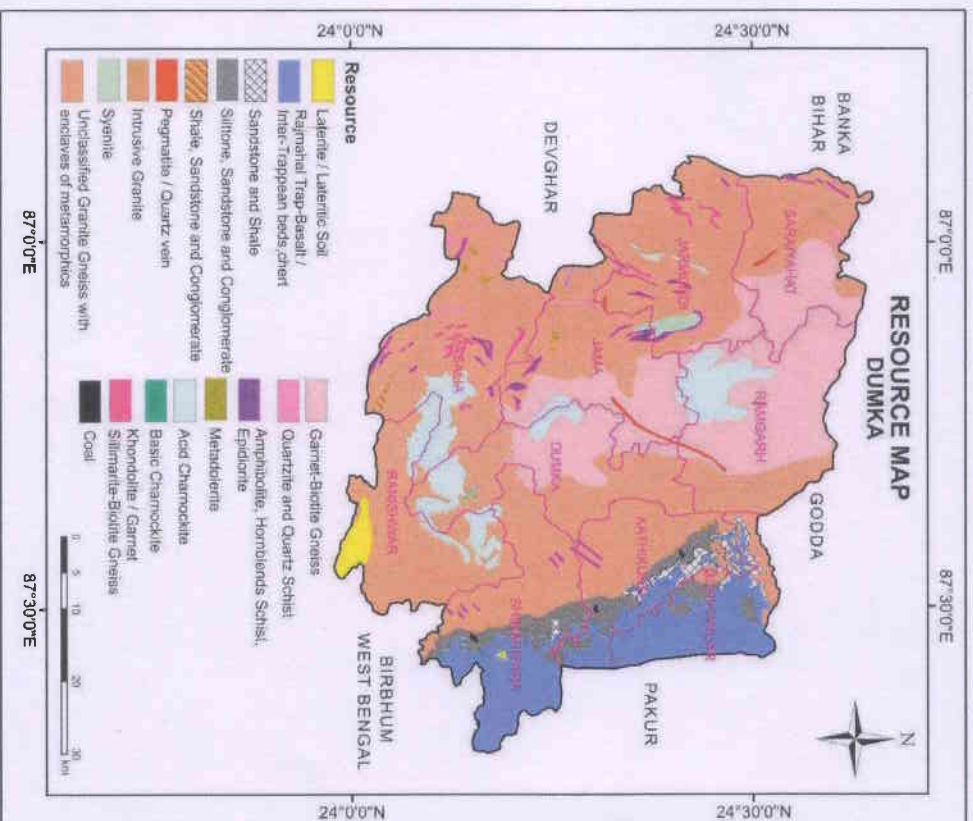


Figure 14-1:- Resource Map of Dumka, Jharkhand



**DISTRICT MINING OFFICER,
DUMKA**

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



Table 14-1:- Existing Working Mining Lease Details

Sl. No.	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Mineable Reserve (in m ³)	Mineable Reserve (in Ton)
1	Shri Parasnath Heights Pvt. Ltd.	Shri Nirmal Jain, Diwakar Tower, 1st floor, Saithaia, Birbhun, West Bengal	2.11 HA/5.20 acre	MOUZA - DALDALL, P.O. - DALDALL, BLOCK & P.S. - SHIKARIPARA, DISTRICT- DUMKA, STATE- JHARKHAND. PLOT NO. - 2130, 2131(P), 2132(P), 2133, 2134, 2135, 2136, 2137, 2138, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, KHATA NO. - 04, 54, 56, 60	287903.2	7,77,338.64
2	Shri Mainul Islam	Shri Mainul Islam, Mahendrapur, birbhun, West Bengal	2.17 ha/5.36 acre	MOUZA - KENDPAHARI, BLOCK & P.S. - SHIKARIPARA, DISTRICT- DUMKA, STATE- JHARKHAND. PLOT NO. - 723, 724, 940, 941, 945, 946, 947, 948, KHATA NO. - 02,03,25,35,43	127512.49	3,44,283.72
3	M/s Raksha Kali Stone Works	Shri Shankar Bhagat, Ramnagar, PO. Malpahari, Pakur, Jharkhand	1.66 HA/4.09 acre	Mouza - AHRICHUWAN, Block & P.S. - GOPIKANNDAR, P.O. - KARUDIH, DISTRICT- DUMKA, STATE- JHARKHAND. PLOT NO. - 395, 396. KHATA NO. - 35, 16. Khata No.- 17, 45, 30 & 39 Plot No.- 131, 132, 133 & 134 Village-Saharpur, Thana- Shikaripara, Thana No. - 12 District-Dumka, State- Jharkhand	217113	586205.1
4	M/s Shree Stone Works	Miyam (Partner), Saharpur, Post- Benagaria, Thana- Shikaripara, Dumka, Jharkhand	2.97 ha/7.34 acre	MOUZA & PANCHAYAT- MUSNA, P.O. - DHARAMPUR, P.S. - GOPIKANNDAR, DISTRICT- DUMKA, STATE- JHARKHAND. Plot No. - 62(P), 63(P), 64(P), 65(P), 66(P), 67, 68(P), 72, 73, 74(P), 78(P), Khata No. - 32, 24, 03, 34, 11, 35, 20 & 13	644465.18	1740056
5	M/s Maa Kali Stone	Shri Ajay Kumar Bhagat, Gampura, PS. Pakuria, pakur, Jharkhand	2.46 HA/6.08 acre		485251	1310177.7

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DISTRICT MINING OFFICER,
DUMKA
167 | Page

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



Sl. No.	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Mineable Reserve (in m ³)	Mineable Reserve (in Ton)
6	M/s Raksha Kali Stone Works	Sri Manoj Kumar Bhagat, Sarasdangal, P.S., Shikaripara, Dumka, Jharkhand	2.955 ha/7.30 acre	MOUZA & PANCHAYAT- MUSNA, P.O. - DHARAMPUR, P.S. - GOPIKANDAR, DISTRICT- DUMKA, STATE- JHARKHAND. Plot No. - 708(P), 711(P), 715(P), 716(P), 717(P), 718(P). Khata No. - 23, 24, 30, 37	1136520	3068604
7	Sri Utpal Kumar Sen	Sri Utpal Kumar Sen, Kundit, PO+Thana- Kundit, Jamtara, Jharkhand	2.26 ha/5.59 acre	MOUZA - PINDARGARIA, THANA - GOPIKANDAR, THANA NO. - 49, DISTRICT - DUMKA, JHARKHAND	341700	1025100
8	M/s R.S.S Stone Works	Sri Rahul Singh & Partners, Sirsia, P.O.- Kanki, Thana- Palojori, Deoghar, Jharkhand	1.73 ha/4.28 acre	MOUZA - RAMBANI, BLOCK & P.S. - GOPIKANDAR, P.O. - DHARAMPUR, DISTRICT- DUMKA, STATE- JHARKHAND. PLOT NO. - 135., KHATA NO. - 10	265468	716763.6
9	Shri Arun Kumar Sah	Shri Arun Kumar Sah, Village+Post+ P.S.- Shikaripara, District- Dumka	1.61 ha/3.97 acre	MOUZA - PAHARPUR, P.O. - BENAGARIA, P.S. - SHIKARIPARA, DISTRICT- DUMKA, STATE- JHARKHAND., PLOT NO. - 960(P), 961, 962, 963, 964, 965, 966., KHATA NO. - 04, 19, 23	310232	837626.4
10	M/s S.P. Stone Works	Shri Purushottam Sharan Prashant, at Shrikant road Belagagan, P.S- Deoghar, Deoghar, Jharkhand	1.97 ha/4.870 acre	MOUZA - RAMBANI, BLOCK & P.S. - GOPIKANDAR, P.O. - DHARAMPUR, DISTRICT- DUMKA, STATE- JHARKHAND. PLOT NO. - 85 (P), KHATA NO. - 27	269443.56	727497.69
11	Shri Amardeep	Shri Amardeep, R/O House No. 1002, Sector - 14, Sonipat, Haryana	2.43 ha/6.01 acre	Mouza - Shiyalpahari, P.S. - Shikaripara, Dist. - Dumka, State - Jharkhand., Khata No.- 3,4,5,6,7,8,9,... Plot No. - 44 (P), 49 (P), 58, 59, 48 (P), 71 (P), 40 (P), 42 (P), 51 (P), 43, 45 (P), 46 (P), 52 (P), 60 (P), 50 (P)	386868	1083231



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



Sl. No.	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Mineable Reserve (in m ³)	Mineable Reserve (in Ton)
12	Shri Amardeep	Shri Amardeep, R/O House No. 1002, Sector -14, Sonapat, Haryana	2.38 ha/5.88 acre	Mouza – Shiyalpahari, P.S. - Shikaripara, Dist. – Dumka, State – Jharkhand, Khata No. -7,6,8,9,4,, Plot No. - 38 (P), 42 (P), 51 (P), 52 (P), 148 (P), 48 (P), 52 (P), 50 (P), 49 (P).	376086	1053040
13	Shri Sunil Kumar mandal	Shri Sunil Kumar Mandal, Kushpahari, PO-Baramasita, PS- Shikaripara, Dumka, Jharkhand	1.76 ha/4.34 acre	Mouza – Lowapara, P.O. - Benagaria, Block & P.S. - Shikaripara, Dist. – Dumka, State – Jharkhand., Khata No. - 06,09,10,, Plot No. -84,85,155	238700.8	644492.16
14	M/s Varun Singh Sisodia Private Limited	Shri Varun Singh(Managing Director), 12- Kishorbhawan . Justice Mandal Path, DAV School East, Rajvanshi Nagar, Patna	1.78 ha/4.39 acre	Mouza – Lakhibad, Block - Gopikandar, P.S. – Gopikandar, Dist. – Dumka, State – Jharkhand., Khata No.- 2 , 15,12 Plot No. - 428 (P), 429 (P), 431 (P), 432 (P), 434	171731	480847
15	Shri Parasnath Industries	Proprietor- Shri Nirmal Jain, At Shriram Apartment, Ranchi Patna Road, PO- Jhumri Tilaiya, Koderna, Jharkhand	2.34 ha/5.79 acre	MOUZA – SALBONA PAHAR, PANCHAYAT - SAHARPUR, P.O. - BENAGARIA, P.S. - SHIKARIPARA, DISTRICT- DUMKA, STATE- JHARKHAND. PLOT NO. - 243(P), 244(P), 251(P), 253(P), KHATA NO. – 24, 36, 37	292782	7,90,511.40
16	Shri Santosh Kumar Dan	Shri Santosh Kumar Dan, Kolaibari, PO- Rajbandh Palasi, PS Shikaripara, Dumka, Jharkhand	1.20 ha/2.97 acre	Mouza- Paharpur, P.O.- Benagaria, Block+P.S.- Shikaripara, District- Dumka, Jharkhand., KHATA NO. 16., PLOT NO. - 698(P)	74812.5	201993.75



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



Sl. No.	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Mineable Reserve (in m ³)	Mineable Reserve (in Ton)
17	M/s Jai Maa Tara Stone Product	Prop: Shri Binod Prasad Bhagat, Sarasdangal, Dumka, Jharkhand	2.73 ha/6.73 acre	Village- Saharpur, Thana- Shikaripara, Thana No.- 12, District- Dumka, STATE- JHARKHAND, Khata No.- 52 22, Plot No.- 30 21, 24 (P)	469895	1409685
18	M/s R.A.N Enterprises	Prop: Sri Amit Kumar, Dumarchit, Pakur, Jharkhand	2.65 ha/6.56 acre	Village – Jitpur, P.O.- Dharampur, P.S. – Gopikandar, District- Dumka State – Jharkhand., Khata No. 15, 10, 13., Plot No. 28,27,34,33,67,26,25	328104	885880.8
19	M/s Lakhinara yan Stone Works	Shri Manoj Kumar Gupta & Partner, Gopikandar, dumka, Jharkhand	1.53 HA/3.77 acre	Village – Lakhinbad, P.O.- Ranga Mission, P.S. – Gopikandar, District . Dumka, State – Jharkhand., Plot No.- 862 P Khata NO -08	335366	905488
20	Sri Pratyusdhar ar Jha	Sri Pratyusdhar Jha,Near Central Jail, Grant Estate, Sonwadangal, Dumka, Jharkhand	2.31 HA/5.70 acre	Village – Pokharia, P.S. – Shikaripara, District- Dumka State – Jharkhand, Plot No. 544(P), 545(P), 546, 547, 548, 549, 550, 551, 552(P) & 553(P), Khata No.- 03,36,31	677576.25	1829456
21	Shri Mahesh Yadav	Sri Mahesh yadav, H.No-86,satidha,Kodema, Jharkhand	1.81 ha/4.48 acre	Village – Pahar Aamchuwa, P.S. – Shikaripara, District- Dumka State – Jharkhand, Plot No. 559 & 560	540000	1458000
22	M/s Vishnu Stone Enterprises	Shri Virendra Sahu, Nawadih, Koderma, Jharkhand	1.63 ha/4.04 acre	Village – Kushum Ghati, P.S. – Shikaripara, District- .Dumka State – Jharkhand., Plot No. 272(P), 273, 387,388, 392, 393, 402, 403, 404, 407, 408 & 415(P)	355242.96	959156
23	M/s Mannode Minerals Pvt. Ltd.	Shri Nilu Mariya & Partner, Rasikpur, Dumka, Jharkhand	1.64 ha/4.04 acre	Village – Manjhadih, P.S. – Shikaripara, District- Dumka State – Jharkhand, Plot No. 731, 732 & 733	3,78,142.96	1020986



**DISTRICT MINING OFFICER,
DUMKA**

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



Sl. No.	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Mineable Reserve (in m ³)	Mineable Reserve (in Ton)
24	M/s Pragati infra	Smt. Shilpi Pandey & Partner, W/o Chandra Shekhar Pandey, Sarua, Dumka, Jharkhand	1.40 ha/3.45 acre	Village – Sarua P.O.- Bando Haripur, P.S. – Dumka, District, Dumka, State – Jharkhand, Plot No. 537 P, 538 P, 539 P, Khata NO 22,11	2638944	712514.9
25	Sri Soi Mandal	Sri Soi Mandal, Gopik andar, Dumka, Jharkhand	1.955 ha/4.83 acre	Mouza–Musna, P.O.- Dharampur, P.S.- Gopikanddar, District–Dumka, State– Jharkhand, Plot No. 8, 9(P), Khata No.- 11,05	206632	557905
26	M/s Supreme Stone Mine	Sri Jagatbandhu Pandit, R/o Tapsi, Dumka, Jharkhand 827009	1.42 ha/3.52 acre	Mouza - Salbona, J.B. No - 27, 2, 38, Plot No.-290, 291, 292, PS - Shikari Para, District - Dumka, State -Jharkhand	111800	301860
27	Sri Fadar Ansari lease transfer to M/s Bansidhar Constructi on Private Limited	Sri Fadar Ansari, Jogikhop, P.O- Rajbandh Palasi, PS- Shikari para, Dumka, Jharkhand Sri Prakash Kumar Singh, 2nd Floor plot no 388/389 near Biscuit factory More Nasriganj, Digha, Danapur, Patna 800012	2.94 ha/7.27 acre	Mouza - Kusumghati, P.O.& P.S. – Shikari para, Dist.-Dumka, Jharkhand, Plot No.373, 374, 375, 376, 377, 378,379, 416, 417(P), 426, 432(P), 433(P), 434.	6,34,920	1714284
28	M/s Rajbitr Constructi on Pvt. Ltd.	Sri Birkumar agarwal, 614, Hariom Tower, Circular Road, Ranchi, Jharkhand and	2.91 ha/7.19 acre	Mouza–Kendpahari, Panchayat- Jhunki, P.S.– Shikari para, District–Dumka, State–Jharkhand, Plot No.800,801, 802(P), 804, 805, 806, 1307, 1308	99728	1079265.6



DISTRICT MINING OFFICER,
DUMKA

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



Sl. No.	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Mineable Reserve (in m ³)	Mineable Reserve (in Ton)
29	Sri Anil Prasad Singh	Sri Anil Prasad, Singh B-4, Parvati Niwas, Behind SBI, Patel Nagar, Harmu Housing Colony, Ranchi, Jharkhand	2.98 ha/7.36 acre	Mouza - Pokharia, P.O. - Benagaria, P.S. - Shikaripara, District - Dumka, State - Jharkhand, Plot No. 1191(P), 1193(P), 1194(P), 1195(P), 1196(P), 1214(P), 1215, 1216(P), 1217(P), 1218(P), 1219(P), 1250(P).	338207	913160
30	Md. Abdus Salam Ansari	Md. Abdus Salam Ansari, Kalakata, Dumka, Jharkhand	1.39 ha/3.43 acre	Village - Paharpur, P.O. - Benagaria, P.S. - Shikaripara, Dist.-Dumka, Jharkhand. Plot No. 1174, 1175, 1176, 1184, 1285 & 1187 Khata No. 19, 24	183230	494721
31	M/s K.K. Stone	Shri Bhutka Soren, Daldali, Dumka, Jharkhand	2.98 ha/7.37 acre	MOUZA - POKHARIA, PO - BENAGARIA, PO - SHIKARIPARA, DUMKA, JHARKHAND, PLOT NO. 538(P), 539(P), 540(P), 541, 542(P), 543(P), 1186(P), 1189, 1190(P), 1191(P), 1192, 1197(P), 1221, 1222, 1223, 1224(P), 1225(P), 1226, 1227, 1228(P), 1229(P), 1230(P), 1231(P), 1232(P), 1233, 1234, 1235(P).	209157.6	564725.52
32	Shri William Rituraj	Shri William Rituraj, Tola Bathal, Bhagvanpur, K hapura, Nawada Bihar	2.96 ha/7.31 acre	Village - Pokharia, P.O. - Benagaria, P.S. - Shikaripara, Dist.-Dumka, Jharkhand, Plot no 523(P), 526(P), 527(P), 528(P), 529(P) & 530(P)	647079.3	1747114.11
33	Sri Ravindra Nath Chand	Sri Ravindra Nath Chand, Gopikandar, Dumka, Jharkhand	2.69 ha/6.65 acre	MOUZA - SUGAPAHARI, THANA - GOPIKANANDAR, THANA NO. - 41, DISTRICT - DUMKA, JHARKHAND. J.B. No: 20, Plot No: 7(P).	514210	1542630
34	Sri Ravindra Nath Chand	Sri Ravindra Nath Chand, Gopikandar, Dumka, Jharkhand	2.50 ha/6.18 acre	Mouza - Pindargaria, Thana - Gopikandar, Thana No. - 49, District - Dumka, Jharkhand J.B. No: 03, Plot No: 33.	364315	1092945



**DISTRICT MINING OFFICER,
DUMKA**

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



Sl. No.	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Mineable Reserve (in m ³)	Mineable Reserve (in Ton)
35	M/s Agrima Infra Engineering Pvt.Ltd.	Sri Rahul Kumar, R/o 105, Hardala Kund, Durga Bari Road, Deoghar, Jharkhand	1.04 ha/2.57 acre	Plot No. – 267P, Khata No. – 01, Thana No. – 25 Village-Kusumghati, P.S- Shikaripara, Anchal-Shikaripara, District- Dumka, Jharkhand.	176832	477446
36	M/s Agrima Infra Engineering Pvt.Ltd.	Sri Rahul Kumar, R/o 105, Hardala Kund, Durga Bari Road, Deoghar, Jharkhand	2.12 ha/5.24 acre	Khata No. – 01 & 03, Plot No. – 274,275,276,278(P), and 279(P) Village-Kusumghati, P.S- Shikaripara, Thana No- 25, District- Dumka, State- Jharkhand.	288901	780033
37	Shri Dilip Kumar Modi	Shri Dilip Kumar Modi, Asanbari, Dumka, Jharkhand	1.87 ha/4.63 acre	MOUZA- LOWAPARA, PANCHAYAT- SAHARPUR, P.O. - PAKDAHA, P.S. -SHIKARIPARA (NO. - 03), DISTRICT- DUMKA, STATE-JHARKHAND. PLOT NO. - 36(P), 37(P), 38(P) KHATA NO.- 13, 08, 03	191711	5,17,619.70
38	Shri Bheru Lal Sharma	Shri Bheru lal Sharma , Ashaholi, Bhilwara, Rajasthan- 311801	2.83 ha/6.99 acre	MOUZA- AAMCHUWAN, P.O. - BENAGARIA, P.S. -SHIKARIPARA, DISTRICT- DUMKA, STATE- JHARKHAND. PLOT NO. - 778, 779, 780, 781(P), 782, 783, 784, 792(P).	554526	14,97,220.20
39	M/s Tridev Engicon Pvt. Ltd.	Shri Ravi Shankar kumar, H.No- 298, Ward No- 04, Williams Town, Shree Krishnapuri, Deoghar, Jharkhand	2.43 ha/6.0 acre	MOUZA – RAMBANI, BLOCK & P.S. - GOPIKANDAR, P.O. - DHARAMPUR, DISTRICT- DUMKA, STATE- JHARKHAND. Plot No. – 36, 38, 39, 59(P) Khata No. – 10, 20, 26	421087.5	11,36,936.25
40	Shree Deepak Raj	Shree Deepak Raj, Hemra, begusarai, Bihar	2.83 ha/7.0 acre	MOUZA- RAMBANI, BLOCK & P.S. - GOPIKANDAR, P.O. - DHARAMPUR, DISTRICT- DUMKA, STATE- JHARKHAND. PLOT NO. – 130, 228P, 237 KHATA NO. – 06, 10	416100	1123470



**DISTRICT MINING OFFICER,
DUMKA**

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



Sl. No.	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Mineable Reserve (in m ³)	Mineable Reserve (in Ton)
41	M/s Baba Stone	Shri Sanjay Kumar Mandal & Partners, Kharauni Bazar, Dumka, Jharkhand	2.97 ha/7.33 acre	MOUZA - RAMBANI, BLOCK & P.S. - GOPIKANDAR, P.O. - DHARAMPUR, DISTRICT- DUMKA, STATE- JHARKHAND. PLOT NO. - 194 (P), 195, 196(P), 197(P), 198(P), 285, 286.KHATA NO. - 3	620207.5	1674560.25
42	Shri Sujet Kumar Singh	Shri Sujet Kumar Singh, Arak, Buxar, Bihar	2.834 ha/7.0 acre	MOUZA - SALBONA PAHAR, PANCHAYAT - SAHARPUR, PANCHAYAT - SAHARPUR, P.O. - BENAGARIA, P.S. - SHIKARIPARA, DISTRICT- DUMKA, STATE- JHARKHAND. PLOT NO. - 273(P), 274	170485	414045
43	M/s Adity Stone	Prop: Shri Amuly KumarPaul, Bhutokodiyar, Dumka, Jharkhand	2.60 ha/6.41 acre	MOUZA & PANCHAYAT - MUSNA, P.O. - DHARAMPUR, P.S. - GOPIKANDAR, DISTRICT- DUMKA, STATE- JHARKHAND. Plot No. - 113, 116(P), 117(P), 118(P), 119(P)	402192	1085918.4
44	Shri Madhuren dra Jha	Shri Madhuren dra Jha, Harnakundi Road, purana Dumka, Dumka, Jharkhand	1.62 ha/4.0 acre	MOUZA - LABAPARA, P.O.- PAKDAH, P.S.- SHIKARIPARA, DISTRICT- DUMKA, STATE- JHARKHAND 816118, PLOT NO. - 80(P), 81(P), 82(P); KHATA NO.-17	151762.8	4,09,759.56
45	Shri Pankaj Kumar Mandal	Shri Pankaj Kumar Mandal, H.No.139, Gopikandar, dumka, Jharkhand	0.99 ha/2.45 acre	MOUZA- RAMPUR, P.O.- RANGAMMISSION, P.S.+Tehsil - GOPKANDAR, DISTRICT- DUMKA, STATE- JHARKHAND,814103, PLOT NO. - 436(P), 437, 438, 439. KHATA NO.- 05, 13	82579.6	2,22,964.92
46	M/s Rajah Mining Corporation	Shri Seikh Salauddin, Sontsal, Seked, da, PO- Mokdumnagar, PS- Mohammad Bazar, Birhum, Jharkhand- 731224	1.935 ha/4.782 acre	Mauza-Kantapahari, plot no- 869(P),871(P),872,873,874,875, 876,877,878 879, Thana- Shikaripara, District-Dumka, Jharkhand	102168.15	275854

Approved

DISTRICT MINING OFFICER,
DUMKA

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



Sl. No.	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Mineable Reserve (in m ³)	Mineable Reserve (in Ton)
47	Shri Kaushal Kishore Singh & Shri Harinanda Choudhary	Shri Kaushal Kishore Singh & Shri Harinandan Choudhary, Dudhani, Dumka, Jharkhand-814101	1.137 ha/2.81 acre	Village-Saharpur, P.S.- Shikaripara, District- Dumka, Jharkhand, Plot no- 18,19,20(P)	105505.92	284866
48	Dani Nath Stone	Shri Jata Shankar Sahay, purana A.N. College Campus, Dudhani, Dumka, Jharkhand-814101	3.75 acre	Village- Dalahi, P.S.- Katnikund, District- Dumka, Jharkhand, 04,05,06(P), 12,13	134590	363393
49	Sri Haradhan Verma	Sri Haradhan Verma, Village +P.O- Rajbandh, P.S Shikaraipara, District- Dumka, Jharkhand 816118	1.38 ha/3.40 acre	Village - Salbonapahar, P.O. - Benagariya, P.S. - Shikaripara, Dist.-Dumka, Jharkhand, PlotNo-124 (P), Khata No.- 06	354629.95	933200.87
50	Smt Mini Hansda	Smt Mini Hansda, W/o Sri Mone Lal Marandi, Vill:- Manjhladli, Post:- Benagadiya, P.S:- Shikaripara, District Dumka.	1.87 ha/ 4.62 Acre	Village - Salbonapahar, P.S. - Shikaripara, Dist.-Dumka, Jharkhand, PlotNo-275,276,277(P), 278(P)	239503.5	646659.45



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



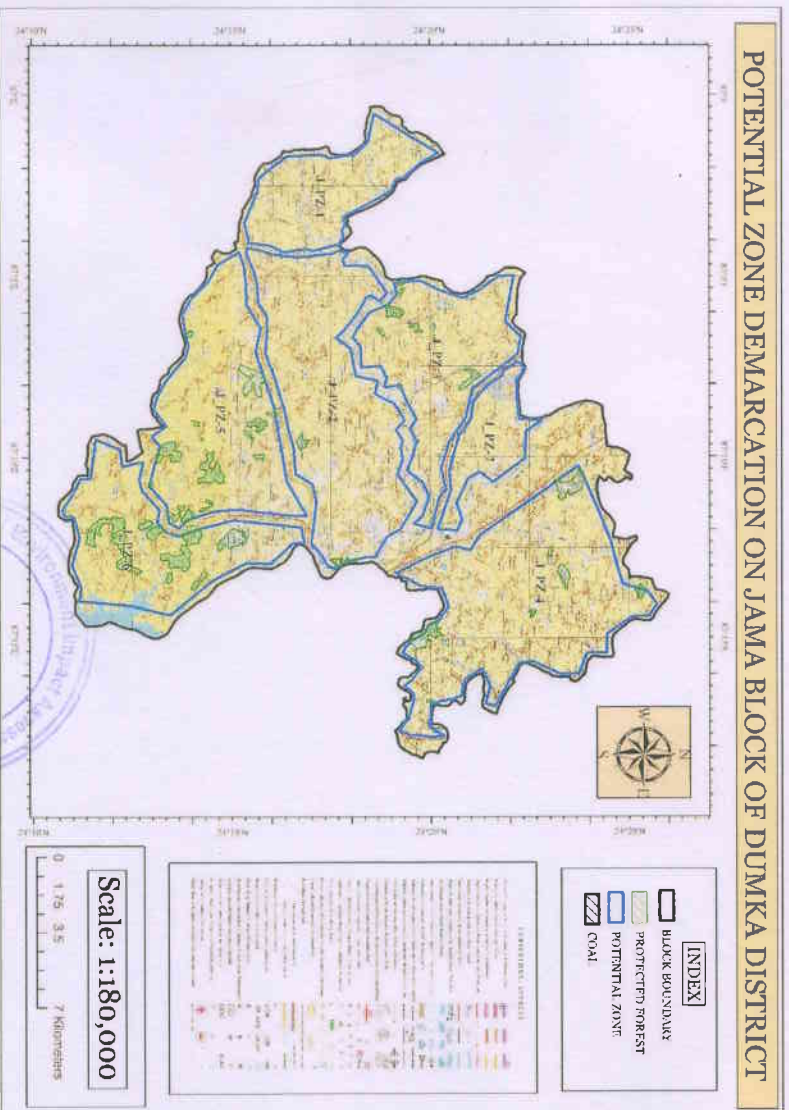
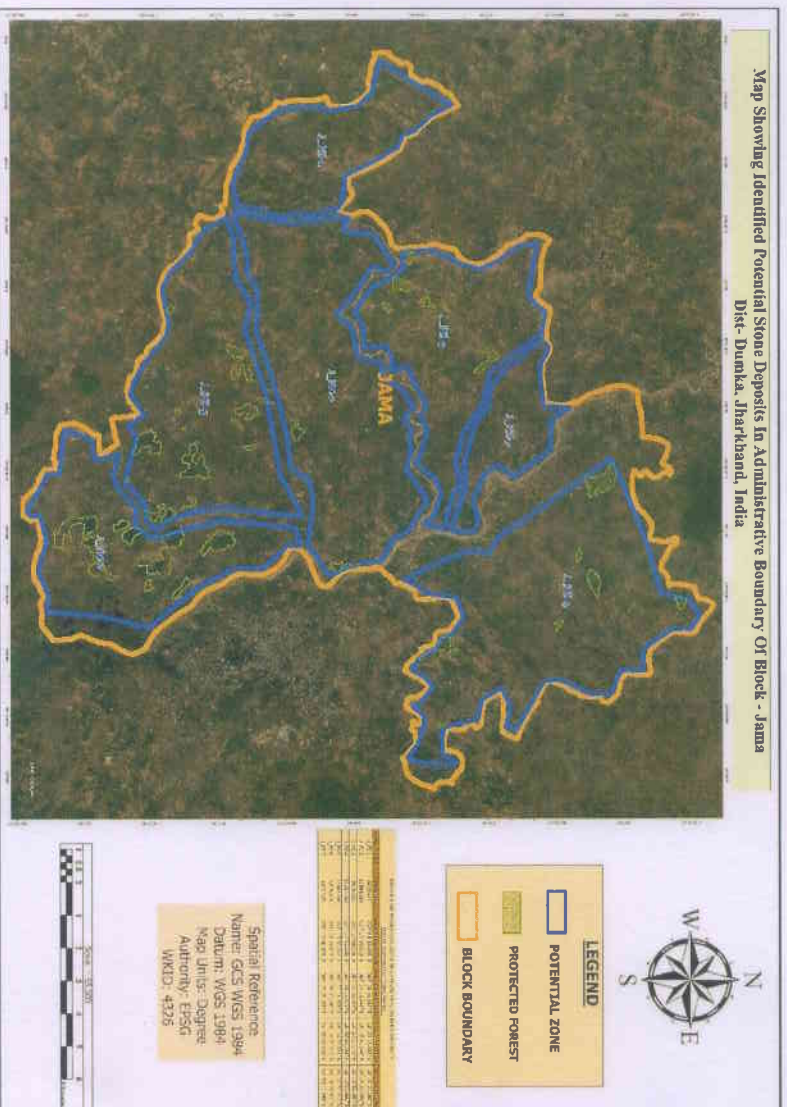
Sl. No.	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Mineable Reserve (in m ³)	Mineable Reserve (in Ton)
51	V R Minerals	Partner. 1. Sri Ajay Kumar, S/o late Ganga Kumar Address:- Kush Apartment, Ram Janaki Hawainagar, Ranchi. 2. Sri Paresh Ghoshal, S/o H.M Ghoshal, Address:- Pathal Kudwa, Puruliya Road Ranchi.	2.49 ha/ 6.16 acre	Village – Benagaria, P.S. – Shikari para, Dist.-Dumka, Jharkhand, PlotNo-651.	481919	1301182
Total					19853839. 72	4,77,22,673 .69

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



**DISTRICT MINING OFFICER
DUMKA**

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



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



OF
VILLAGE JAMA Block *AP*

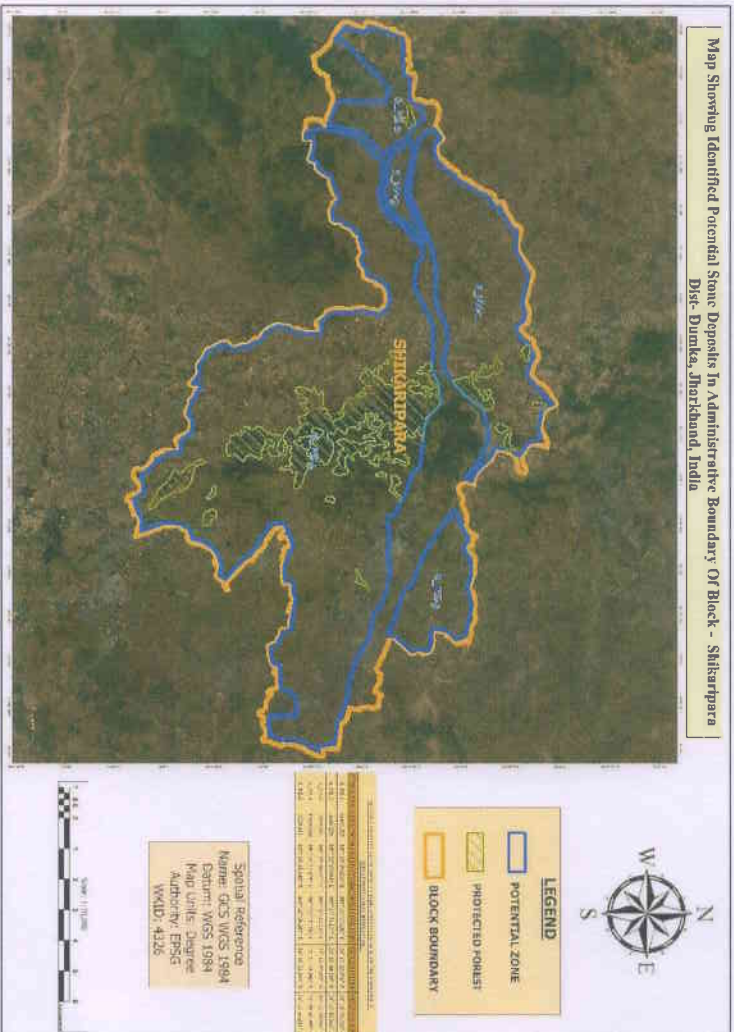
KAIRABANI	NACHANGARIA	BICHHUA	DUDHANI	JARATIKAR	TARRA
AGUIA BANDH	CHEHARBANI	PURANIA	BISUNPUR	KENDUABAHAR	RAMPUR
BASKA	AHLADDUMRIA	JAMA	ASANBANI	JARPURA	SIMRADANGAL
UPAR BAHAR	UPAR BALRAM	SIBNAGAR	AMGACHHI	SEJAKURA	SIKTIYA
KHEDNAPARA	HATHBALRAM	BALDORE	DANDODUMRIA	JAMA	GAIBATHAN
DALDALI	LEDHAPARISA	JANGLA	KHEJURIA	SUGINBAD	TARATIKAR
KUMARMATIYA	LAKARJORIA	PUSARO	AMJHOR	PALASIA	HARRAKHA
TARAJORA	BICHKORA	NAWADIH	LODHNA	BELKUPI	NAWADA
SIMRA	HATHIGAR	PIPPA	PARGADIH PURAPRATTI	AGUIA	DALDALI
PARRIA	CHIHARBANI	PHULOPANI	HEТЬBAHARI	BAGHOPA	HEMANTPUR
TINGHARA	DUDHANI	AMRA	KHILKANALI	KARAHIA	SILANDAH
MAHUATANR	RANGA	JARUADIH	PAHARIDIH	PUJHARI	KURMAN
DUDHANI	PANJANPAHARI	DHAWDIH	CHIKINIA	TAPSI	GHORIBAD
DUNDIRA	CHUNDORA	TIKAKTA OR BABUPUR	BHIKHAMPUR	BASUTIA	MAHULBANA
BAHINGA	DUNDIRA	AMIOLA CHHOTA	BHAIROPUR	DUBRIKEDALI	GONCHHUA
KATAHARA	MADHUBAN	BARATANR	BIRAPUR	HARDIPATTI	HETH RENGNI
GARGARIA	BICHKARA	SEMRA	JHUMARBAD	BHORA BADA	UPAR RENGNI
GANUAMARNI	AMLA CHATRA	CHHATADHAKA	TENGDOHWA	KUNDADIH	ASANIOR
HETBAHAR	MURGBANI	KHARAHARA	JHANDARDUMRIA	MAGHADIH	KATANGI
BANK	BAGHAKOL	SARAIYA	SARDANAR	SEMRA	KURUMTANR
SHANKARPUR	JHAGRANI	KATHNARA	LAKHANA	GUNDUDAGAL	DHANADIH
KUNBANA	MAHADEVRAYDIH	SATRUKHA	NAVADIH	CHACHNE	KASIKORIA
NAVADIH	KOLHARIA	MATHA CHAK	KALPURRANGA	PHULOPANI	BHORABAD
PIPPA	JARKAHUOGRAIDI	RANIDINDA OR	MADANPUR	CHATRA	SAMPUR
MURKATARI	GHOGRHA	DALDALI	MADHUBAN	JAMOGORI	PACHKATHIA
ASANSOLKURWA	GANESHDIH	LAGAN	BARAMASIA	SAROPAHARI	KHARCHUA
KENDUATANR	BAJURMARA	PHARASIMAL	BALABAHAR	HETH STUA	SIKARPUR
GHATIA	GOBINDPUR	GOARI	HARLADANGAL	UPAR STUA	CHORKATA
BALWA	BELDUBAR	BHATANIA	NAVADIH PATHAL	DHAKODI	BALAMDIH
JAMATANR	GOPAL NAGAR	NAKTI	JARUKHA	SEJAPAHARI	HARINGOHAL
CHAKLATA	PALASBANI	MALOVA	PARANCHAK	UPAR MAJHANI	PIPPA
HARWADIH	TARRA	KUNDADIH	DHORLI	RAUPATTI	SARALA
AMBATIKAR	GADI JIRUIA	MUSIACHAK	DUMA	SONABABUPUR	KOLUA
BELDIH	JIRUIA	LAKARDIWANI	NAVADIH CHHIT	MAHUADANGAL	LACHHIMPUR
KURUMTANR	NAWADIH	PALASI	ASANSOL	PURNIA	KURUMTANR
BHURANDIA	KURUA	PIPPA	NAVADIH	BAHINGA	BANSIORA
UDALKHAP	NONI	SIRSA	PARGADIH PACHHIM	GADIDAVLI	KHAROUNI
KUSBADIA	BANK	KULATHAR	MACHADIH	AGUIA	PARDAVLI
NOKHILA	CHHALAPATHAR	BARA	NAKIT	TLATANR	KURUMTANR
KOHABARA	CHAKLOTIPUR	PATSARA	NIMUDI	HETH MAJHANI	
SAMLATO	NISCHINTPUR	KATANGI	KUSMAHA	THANPUR	



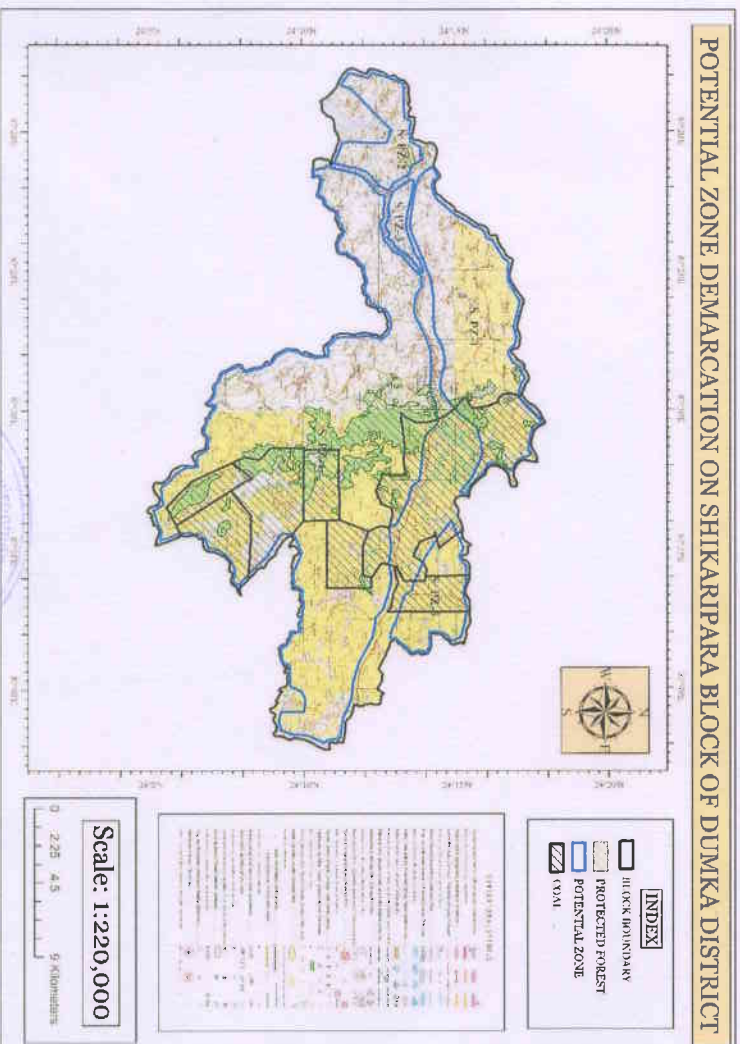
District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Dumka District, Jharkhand.



Map Showing Identified Potential Stone Deposits In Administrative Boundary Of Block - Shikaripara Dist- Dumka, Jharkhand, India



POTENTIAL ZONE DEMARCATION ON SHIKARIPARA BLOCK OF DUMKA DISTRICT



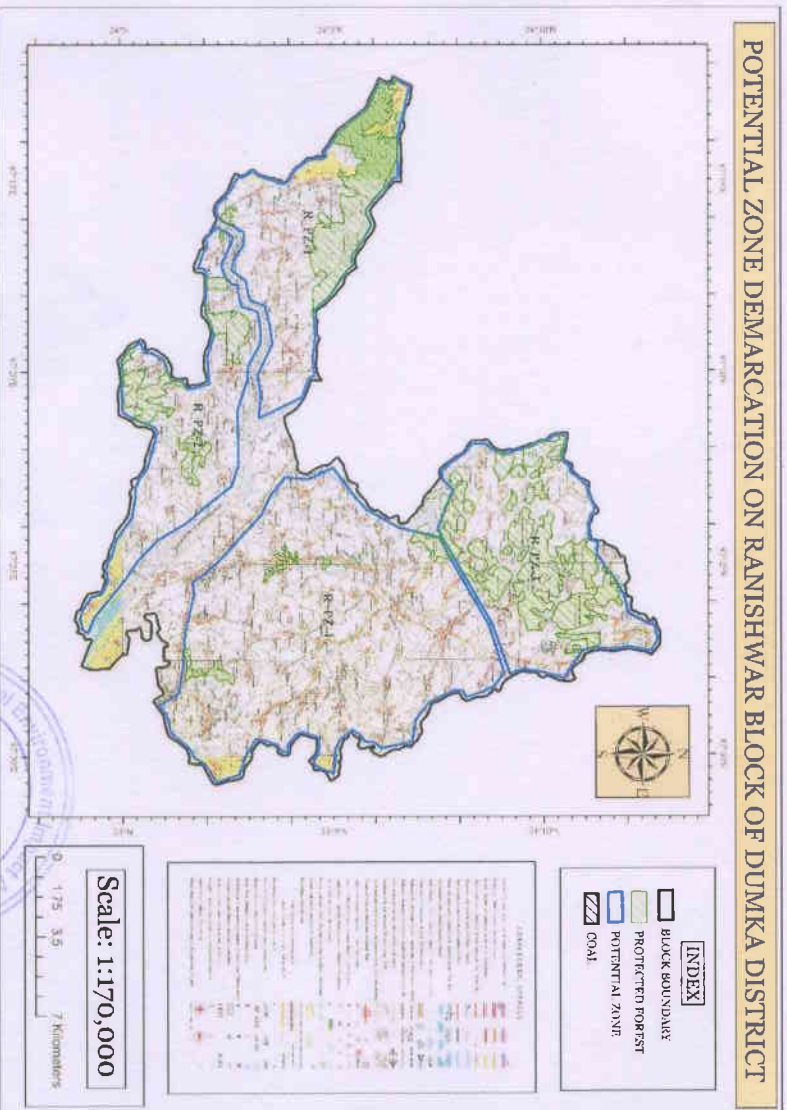
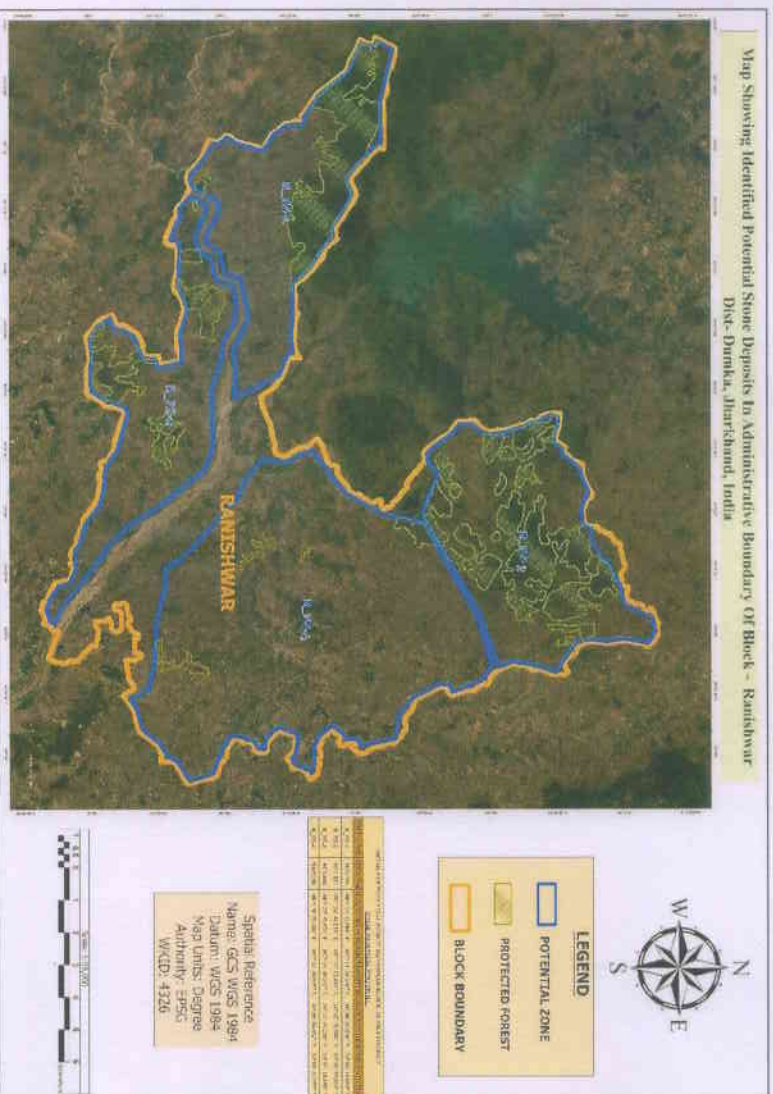
**District Survey Report for Minor Minerals other than Sand
Mining or River-bed Mining for Dumka District, Jharkhand.**



VILLAGE ^{OF} SHIKARIPARA <i>Block</i>			
KAUCHUA	SIKARIPARA	SITASAL	LALITA KUNRI
SATPAKARIA	JAMUGARIA	LERUAKEND	CHANDIPUR
KADAR POKHAR	PATSIMAL	GORADANGAL	DAMIRITALA
JIAPANI	PARTARPUR	GANDARAKPUR	PATARGHARA
TELENGAPARA	PANCHBAHINI	KEND PAHARI	DHANGHARA
NARAINPUR	AMBAORA	PATABARI	HATBARI
SARSAJOL	JAMBAD	MOHANPUR	THAKARANTALA
JHIKARA	KHARUKADMA	DURGAUR	BARAMASIA
KALYANPUR	RANGA	SYAMPUR	ASAMBANI
PARRIDANGAL	SIBTALA	BHILAIRANI	CHIRAPATHAR
BAKIUR	MANIKADI	LANGOPAHARI	AMCHUA
INDRAPUR	DIGALPAHARI	SIRUDIHA URF SIRURAVDIH	BENAGARIA
BHAGWANPUR	DHAKA	INDRABANI	HANSAPATHAR
PALASI	DUAR PAHARI	GOPALPUR	TARACHUA
RAIBANDH	SIRSA	GANESPUR	CHANDANAGARIA
JOGI KHOPA	DHOPAHAR	KESRAGARH	SAHARPUR
PARBATPUR	SIMLA	POKHARIA	PORABANSRI
MANIACHUA	LAKHANPUR	PATRANGA	HARIPUR
SAHARPUR	DUDHANI	CHANDPUR	CHITRAGARIA
SONADHAR	MAJHLADIH	DUMARIA	HARIPUR
LATBEDA	DHEBADI	LAKHIJOL	SARASDANGA
KALABARI	RAGHUNATHPUR	KUNCHIBANA	NIJHOR
AMRAPARA	BISHANPUR	DHIRNAGAR	MAKRAPAHARI
BARGHATA	SAHARJURI	PATRANGA	LANGALBHANGA
KALABADAR	KARMAATNAR	GHAATAKPUR	PATPAHARI
SUNDARPALAN	BUCHAM	SIJUA	POKHARIA
RAMBANI	GOPALPUR	BELBUNI UPAR	PAHAR AMCHUA
RAMPUR	DHANBAD	KHUSHALPUR	LABPARA
BARMESIA	BAIJOR	PHULPAHARI	SALBONAPAHAR
BHALKI	SIMALTI	BELBUNI	GHUTKANDAR
DUDHICHUA	GUJISMAL	KURUNDA	ASTA KANDAR
KUSPAHARI	CHAKLATA	MALUTI	GOLDAHA
SARADANA	MURUPAHARI	BANKIJOR	MAJHANPARA
TELBUIA	MURAAM	SALBANI	RAMJAM



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



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



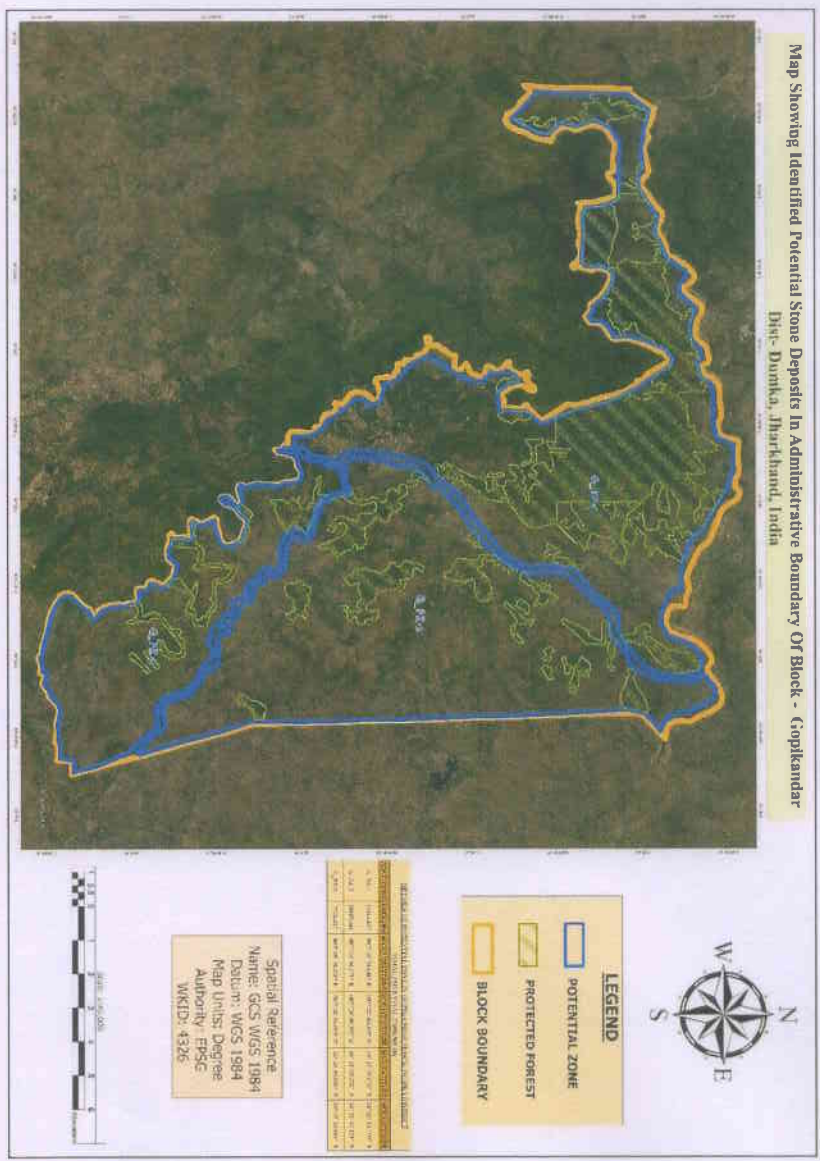
		VILLAGE ^{of} RANISHWAR Block ^{of} SAJJI	
MURJORA	KUCHIADALI	TALDANGAL	SAMAIPUR
SUJA	DAKSHINUDL	SARPAHARI	KALIPATHAR
BARAHARIKI	PHALIPUR	TARADAH	KANJHARA
CHAKLAHIR	PRATAPPUR	LEVA	MAHULGHATA
MANIKDIH	KUCHIAGARI OR BARADANGAL	SULUNGA	MURGUNI
BORA	KUKRIHASA	MOHANPUR	SIMALDOR
KHIRGHATA	TASARKATA	AMDIHA CHAK	KARIKADAR
PARABATHAN	DHOBAKATA	BUKINDUBA	LAKRAGHATI
BELUNI	SIMLA PAHARI	LUTULIA	HARIPUR
BHADOHIR	KUMIRDAHA	CHAPURIA	BAGHADAR
TARNI	GIRIPUR	SIHULIBANA	NANDNA
BHITRA	AMPARA	HATKADMA	PUTKA
TARNI	BAGHASOLA	DHANBHASA	PATJOR CHHIT
DIGULI	SILPAHARI	ASANBANI	KITURI
AMJORA	BANKAKEND	TLABANI	DANTANKATHI
SVAMSUNDARPUR	SULUNGA	PAKHURIA	MURGABANI
GOBINDDIH	SUJAN PURJHARI	PAPALSA	MAHISKHATA
GOBINDPUR	CHAKRAMPARA	SALTALA	RAUIDH
CHADARPURI	JAMURI	RANGALIA	PANCH PAHARI
MAHUPUR	DHADKA	PAKURIA	BARAVATHAN OR BARAJORUA
ALAGPATHAR	RAKNAL PAHARI	JAMGRAM	JARAHARI
DUMRA	TLAKCHAK	KALAKATA	NIMBANI
GOBINDPUR CHHIT	ALIGANI	NAVAGRAM	KHUSDILPUR
MAKARKONDA	BHURABALI	PAHARPUR	RANGAMATI
ADEKHA	CHADABATHAN	BISHUNDIH	SADIPUR
LAKRABINDA	KHORIDOMAR	BAGHKHALA	PATNARCHAL
BAGJORA	BANBARI	DHANKHUNIA	BHARABDI
HARJORA	GULAMSULI	LATABANI	DHODDA
BABUGANI	BELUNI	KRITANCHAK	PATJOR
BENIAGRAM	NAVAPARA	AMDIHA CHAK	METALKONDA
HUSENGANI	ARAI PUR	RAGHUNATHPUR	METELKUDA
NARAYANPUR	CHAKARHAIPUR	CHHOTTA BELUNI	SEMOLSOT
SILAJURI CHHIT	KISMATPALSIA	MAHESHBATHAN	LATABANI
SILAJURI	CHAKPALSA	AMJORA	SAGRAMPUR
SANKAKANDAR	BARAOL	SUKIORA	BANSKULI
CHAKINDRA PRASAD	GOMAHAL	JAYTARA	KALIPATHAR CHHIT
JAYTARA	BANGALIPALSA	PATUSOLA	KURAPAHARI
JAYTARA	TANGGAHA	LAKSHANPUR	KATADUMAR
BILKANDI	BUKINDUBA	BARAGHATA	



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



Map Showing Identified Potential Stone Deposits In Administrative Boundary Of Block - Gopikandrar
Dist- Dumka, Jharkhand, India



POTENTIAL ZONE DEMARCATION ON GOPIKANDAR BLOCK OF DUMKA DISTRICT



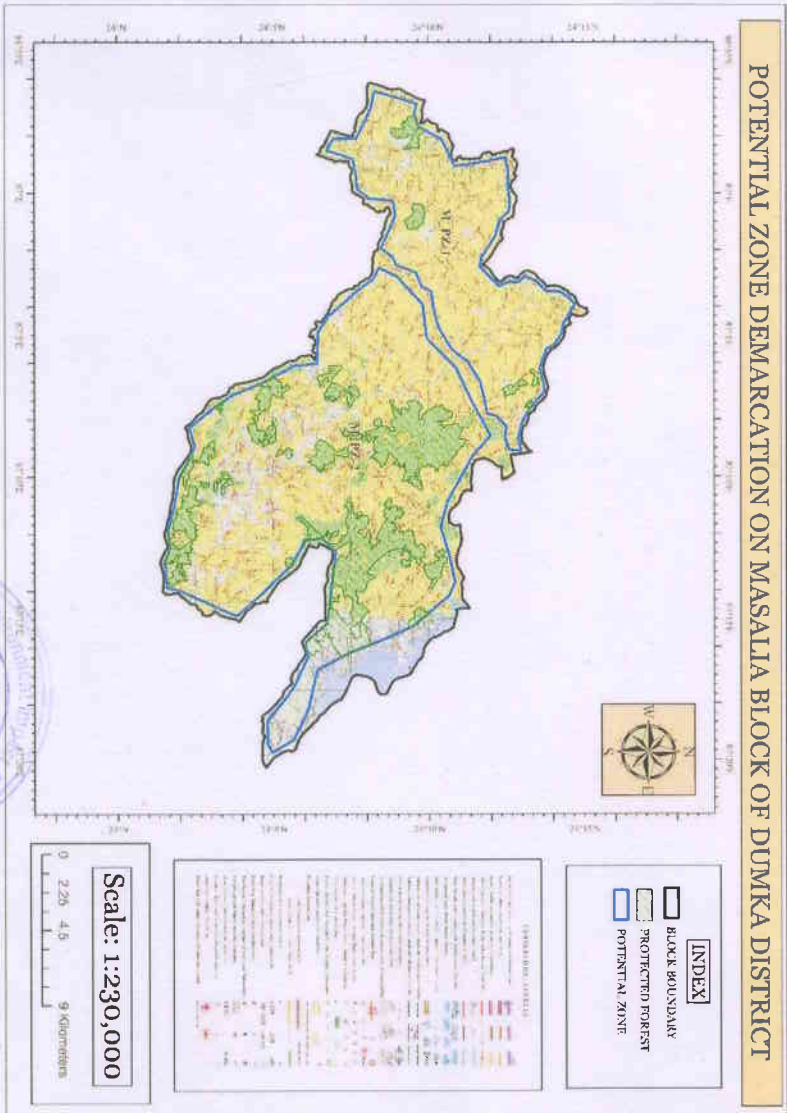
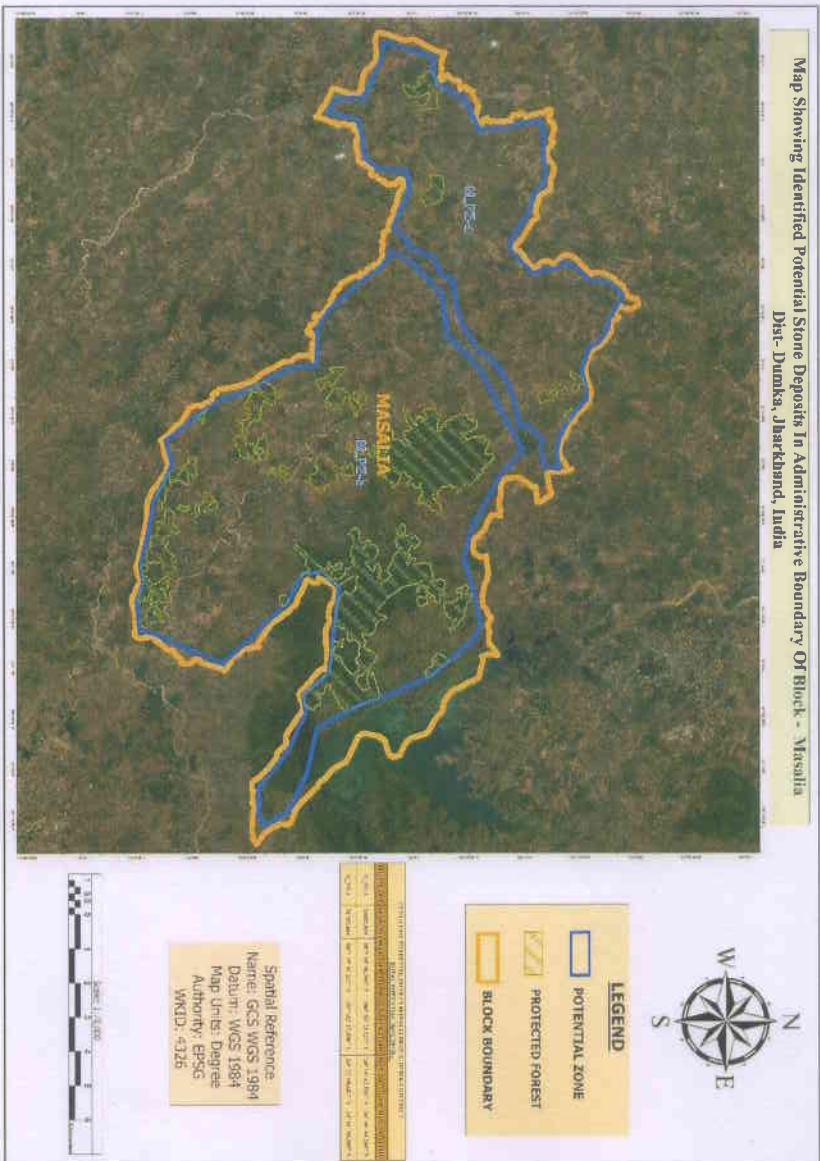
District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Dumka District, Jharkhand.



<i>VILLAGES OF GOPIKANDAR BLOCK AS</i>		
SAHARA	RANGA	BHELAI GHATI
BARA PAHARI	DHOBARNA	DALDALI
KOULO	MAJURABARI	ROLDIH
TESAPULLI	KUSKIRA	CHIRAPATNAR
KOLHA	GUMAPAHARI	SIDPAHARI
AMDIHA	BABUKHURA	BARA PATNAR
SARKHI	PIPPA	NAMODIH
SARKHIPAHAR	BHANGAHIH	DUNDA
KACHUA KANDAR	PINARGARIA	AHROCHUA
CHUNJO	MAUDIHA	KALEANPUR
HETH SHILANGI	PAHARPUR	AMLADANI
SILINGI PAHAR	BHADRADIGHI	TAMI
KHATANGI	AMHARI	KHARNI AND KHARNIBAZAR
KHATGANWA	DIGHARABBAT	NAMODIH KHAS
R F	LAKHIBAD	RAMGARH
JHANHKO	KAJIKEND	KARMO
TALKHORA	JORA SIMAL	GOGAIOR
JOLO	CHHATARCHUA	DHAWADANGAL
KHAJURDANGAL	MUSNA	PIPARJORIA
DHOBACHAPAR	RAMBANI	PINDARGARIA
KULAI PURA	JIPUR	BARA VATNAN
DUDHAPAHARI	DHARAMPUR	CHHOTTA VATNANPAHARI
DURGAPUR	KURUMBVA	BENGOOVA
RANGA	BALUA	KARIPAHARI
DHOBARNA	DUMARTOLA	KARUDIH
MAJURABARI	DUARIA	PARVATPUR
JORA SIMAL	TALVARIA	SURJOODIH
PURANA KHORA	JANAMDIH	PAHARPUR
PALASBANI	KOCHAPANI	AMARPUR
BABUPUR	SUGAPAHARI	JAMCHUA
JAROPANI	BANSPAHARI	KUMARVANDH
SARUAPANI	AMARPANI	CHHATARCHUA
BAKIUR	DUMARIA	BURHICHAPAR
JHUNTICHAPAR	KOLAIORA	GAMHARIA
KOVADA	TENGIOR	BARATALI
KATUIDANGAL		



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



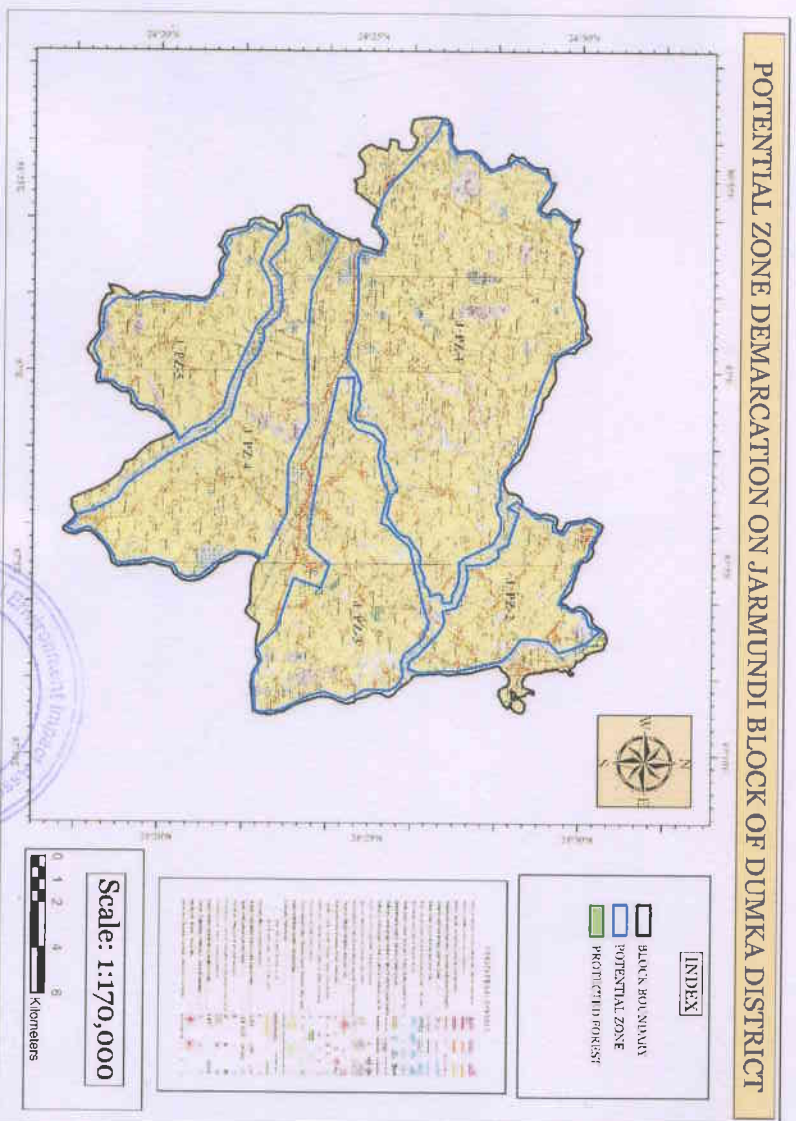
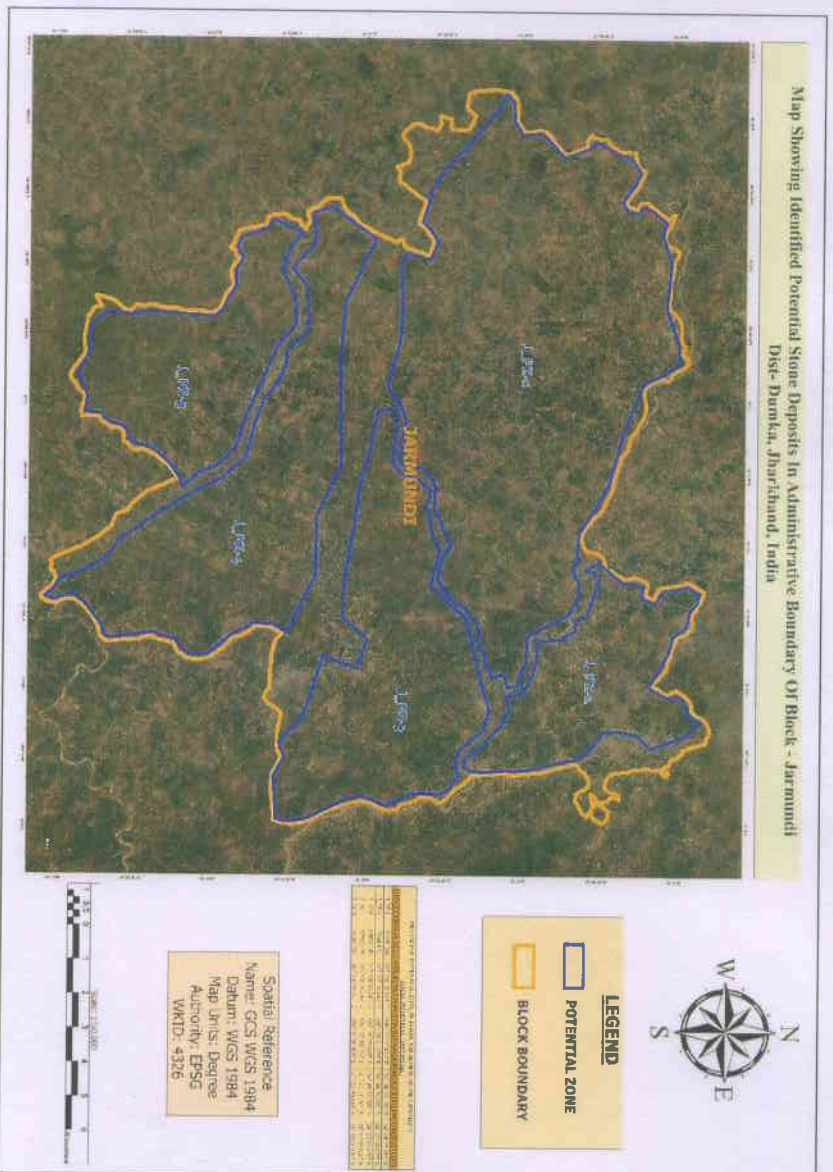
**District Survey Report for Minor Minerals other than Sand
Mining or River- bed Mining for Dumka District, Jharkhand.**



VILLAGE MASALA ^{of} Block <i>AB</i>				
KARMATANR	MAHATODIH	BASMATI CHHIT	BASMATI	BANKATI
UPARBANDHA	BICHKORA	PATHRABAD	NAWADIH	GAMARIA
GOBINDPUR	BELGANJIA	BURADANGAL	BIHAJORI	BARA CHANDNA
AMJORIA	MUKHTANR	SAPCHALA	JARGARI	KALKATI
KHAVERBANIBAZAR	PIPPA	BANBAD	HATBARI	JHARGARA
BEDIA	NUJTANTESARIA	PICHHLI	CHHOTA KUNIBANA	KUSUMDIH
UGANPAHARI	MANOHARCHAK (PALGHARA)	CHUADANA	KUNIBANA	TUROPAHARI
BAGUMI	TURUKTOPA	KALPATTHAR	AGUA	MAHIDI
BEDIA SAONTALI	LATABANI	BEUNAR	DUDHICHUA	RANGA
SAGBEHARI	JORUADIH	BHANGAHR	RANGATANR	KUMGARA
BRINDABANI	BELADIH	LAKSHIBAD	PATANPUR	DIMUDI
KUSUMDIH	DHOKARJHARA	ROHARA	DHAWADANGAL	KALABAAGAH
MALACHA	MADHUBAN	PAHARGORA	KHUTOJORI	DHIRUBERA
KHAVERBANI	KALIPATTHAR	TILBAD	TETARIDANGAL	CHANDADIH
DOGHARA	NIPNIA	KUKURTOPA	BARA DUMRIA	MASALA
PAHARIDIH	CHANDNA	PACHAPANI	PINDARI	MANIPUR
KENDUATANR	DALDALI	BANSJORA	SITLACHAK	BHANGAHR
KOLAGI	DHABNA	SUNDARPUR	CHHOTA KARMATANR	THARI
MAKNI	LAKHIADI	SAGBARI	CHAKGOLA	AIMERI
BIRAJPUR	KENDAGBATA	SUPAIDI	BARAKOL	CHARKAPATTHAR
SINGROGADI	PHULSAHARI	DHARAMPUR	CHHOTA DUMRIA	BANKATA
AMGACHHI	DATTARPUR	RAJMAHAL	AMBA	RANGABANDH
SAWUADIH	RANGMALA	DUMRIA	POKHARIA	PURATANTESARIA
PUTULOR	GORMALA	RAJPARA	PANRRIA	BHELADANA
KUMIRDANA	BARMASIA	RANIGHAGHAR	BANK	GHASIMARNI
PIPPA	MURGATHAL	NAOASAR	LALBAHAR URF LALBENA	JOGIDIH
DUMRIA	MOHANPUR	HATHIAPATTHAR	DIGUARDIH	BHOKTADIH
GAMRA	DEUCHA	SIBAKOL	CHHOTA CHANDNA	KARMATANR
NAWADIH	ISMALA	BAGHRAVDIH	BHUTANI	KURUA
BAJARMARA	SADIPUR	THEKANA	TUMABEL	SINGTUTA
JAJALKATI	HETHIAPATTHAR	TALDANGAL	SIMLA	SITA KAHABAR
KOLHARIA	DUKHIADI	PALASI	JAWANBANK	RANGAMATIJA
BASKUTIA	ASTAJORA	LAHARJURIA	GARAPATTHAR	ANDHIAIDI
BUBUDI	DUDHANI	BETHIABANK	GHORMUNDANI	ASTAJORA
JARUADIH	HUNA	TURKA	NAJORA	MAHULBANA
KENDDANGAL	RAMPUR	SAHARPURA	BATTUBATHAN	KALIDI
PALASI	BHUL	KESARAVDIH	KAPSIO	KATA DUMAR
NAVYADIH	KULSUNGHATA	BARA CHARPURA	BARAMASIA	NAGRAPATTHAR
BARAMASIA LI	KUSBEDIA	JAMJURI	BICHKORIA	DOMKATA
CHHOTA BARAMASI	GULAMBATHAN	PAHARUDI	BARATANR	KATAHARA



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



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



Villages of JARMUNDI Block

DHAKA	BHALKI CHHIT	KENDWATIKAR	DUMARIYA NARAYANPU R	PINDRALET	PAHARPUR	KHARSURI THARIPATHA R	DONDIA
MAJDIHA	LAGWA	CHORKHEDA	NAWAHDIH DHAWATAN R	BAIRBANA BAGHIYA KUSUMDIH	THARIPATHA R	BADHIADIH CHHOTA JORLANGALPUR	
BARGO	BHALKI	DUMARIA	JARDAHA LORIGHAGH AR	KUSUMDIH	JOGDHARA	NAWADIH KHAWASPUR URF MUSWACHAK	
POKHARIYA	BAIRBANA	KHERWA CHHIT	NAWADIH AR	RATANPUR	SINGHNI		
TARGACHA	SHAMPUR	BAJANDIH	JAMUA	KAIROKHATI SAR	GOSA	BISUNPUR	
BHANAGARIYA	RAMPUR	BAJANDIH	KAIRO	SATPAHARI	KANIGARIA	DUMARIA	RAMPUR
NISUNDIRIA	MAHUA	BELUYABANDH	BIRAIPUR	SANPDHAR	LOHARTI	KUSMAHA	KASIJORA
KHAIRABAND	SADHUDIH	KURUMTANR	KATELI	THARWARI	RUPSAGAR	SIMBA	TLAKPUR
BARGO	KANKATTA	BALE	PAHARIDIH	PARIGHADH	BELDANA	BARATANR	KALIPUR
KURMAKITA	MOTHA	DOWNADH	BASBUTIA	LUTJATANR	RANIULAN	BHALSUMIA	MOHANPUR
KURUDABA	KARAMAKIT A TARNI CHHIT	KUSMAHA	SARANGPANI	DHAKA	MOHANPU R	MACHHITANR	BAJAN
KARHARIYA	BELTIKRI	DHAKA	BHALUA	SIRAMPUR	RANGABAN DH	JAMABANIAR	GARDA AMARKUNDA
AMGACHHI	KORDIHA	MAJDIHA	KUSMAHA	HATHGAR	NAVYAMASR A	DAUALATPUR	SIGHNI
UPAR	BAIGANTHA	MAJDIHA	KHERBANI	PALJORI	DHAWATA NAR	DHURWA	BHALBEHRI
KATAUJHA	RA	JHAKHIA	GIDHNI	JHANKRUPUR	KURUMTA NR	SINGHNI	KALA DUMARIYA
HETH	KUNIBANA	DHEKEHAGHON GHA	BARMASIA	KHERNATIK AR	MAHESHKHA NDA	JITJORI	BAGHJORA
MADHUBAN	PATSAR	BALATTHAR	MARCHA	YOGDHARA	TETARDIHA	BANKATI	GOPALPUR
PAREWAPAT	THENGIDIH	GHARTOP	AMARPANI	SINGHNI	URMARA	PARANAKESRI	BAJNANTHPUR
HAR	DARBE	KAIRAJORI	SARMARA	CHANDUDIH	BAHIRIBHIT RI	JARKA	STALPUR
GAJHANDA	SUGASAR	NAWADIH	BASMATA	BANDARJORI	BASSERWA AWRATIKA R	DUMRIAKALA N	MOHANPUR
TARGACHHA	CHARKAPAT	MAHUBANA	HARINIMARA	CHORMURIA	SARAYATIK AR	JAMA	MOHESLTI
HAR	MAHUBANA	BAMANDIHA	GARIA	CHORMURIA	SARAYATIK AR	JAMA	NAWADIH
PHATKA	SANKARPUR	BARA	MAHRA	BANDARJORI	BASSERWA AWRATIKA R	DUMRIAKALA N	MOHANPUR
SEMRA	DUMARIA	LATTA	GARIA	CHORMURIA	SARAYATIK AR	JAMA	NAWADIH
NAVYA	BADRAMPUR	CHAMARABAH AR	TETARIADAN GAL	KUSMAHA AR	JAMA	NAWADIH	
PHATKA	R						
DHAWATANR	KATIMBA	KHILKANALI	PINDRALET	DHOBARNA RANGAMATI A	MARIKADH KHARCHUA	KUNJIA	BELBARA
SUGNIBAD	JAIPUR	THARI	KADALI	MARIKADH KHARCHUA	KUNJIA	BELBARA	KURUMTANR
	KALHOR						
	PINDARTKH AP	BEDIA	BANDARPHA SA	BHORAABAD	BAGECHA	LATAPAKAR	RAGHUADH
MADHUPUR	RAJA	KHEJURIA	LAKHNA	ROHANPUR	BURWADANG AL	AMBA	
DUMARTHAR	SEMARIA	GHORMARA	BALWA	DONDIA	LAVDA	NUNAMATI NO. 2	GHODIMBA
CHANDANPU RA	KAIRO	DHAMINI	KHJURIA	AGDIA	GAJIPUR	HARLADANG AL	KHARCHUA
KHARAADIHA	MATKARA	DHAMINI	KHJURIA	DHAWATAN R	UPARBAND HA	HARLADANG AL	KHAURMA
BHALSUMIA	MAHULAKIT A	KANHAIPUR	BASUKINATH	KENDUATAN R	RAYKANALI	BASBERWA	THARIPATHAR
KHARILLA	THORA	PACHORDH	JARUADH	KATAHARA R	MACHKOL	AMBAGHAGH	BASDIHA
SIMBA	ASWARI	BAGULI	MANDALDH	KATAHARA R	MACHKOL	AMBAGHAGH	BASDIHA



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



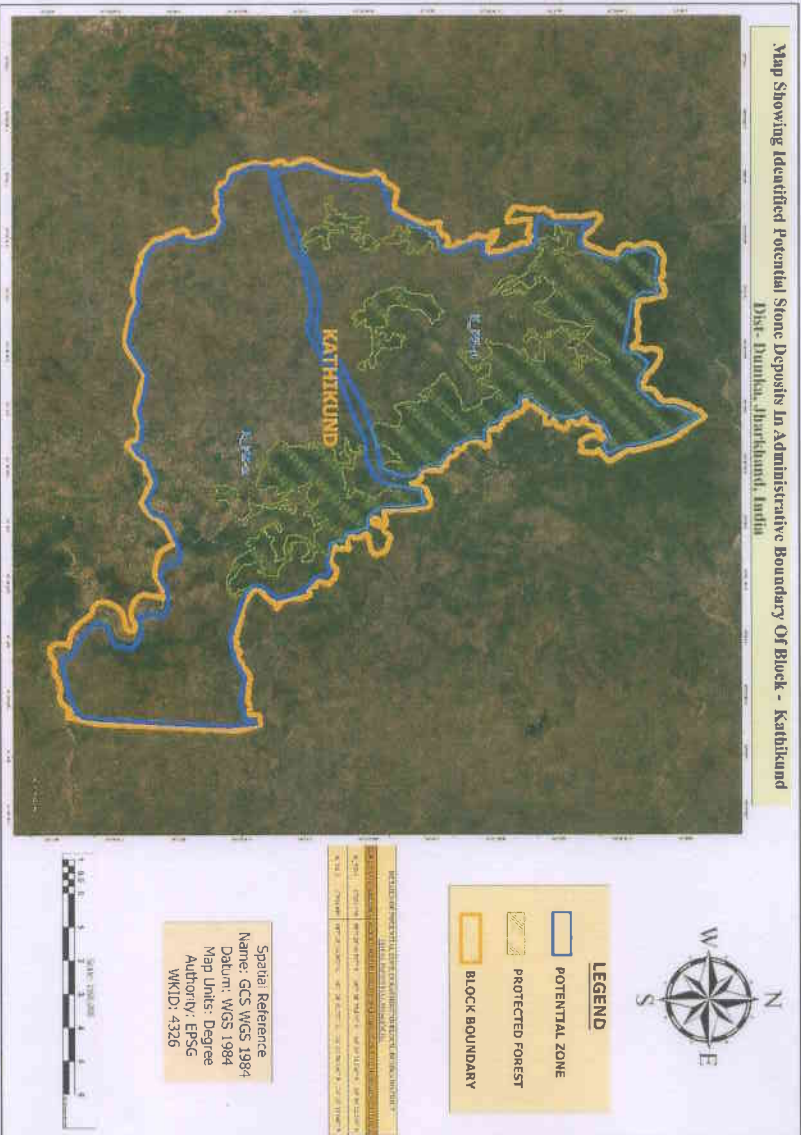
BANWARA	BAGHMARA	DHARAMPU R	DHABANCHI PA	ASANSOL	DOMOHA NI	RAJADIH GADI	BHAGWANPUR
JHUNJHI	KHUTAHRI	KESARIAKITA	PUTLUDABAR	SUNDRAMOR	SIRAMPUR SARKAND	KAMARDIH A	DUMRIYA KHURD
JHILUA	PARSATARI	CHARGHARA	DUMARIA	BAGHMARA	SATHIARI	TUTIDIH	MANDIH
SUGIPAHARI	KHERWA	KESRI	CHORDIHA	SAMLAPUR	BELDIH BHANGIDI	PAHARIDH	PIRRATNAR
BISHUNPUR	JARMUNDI CHHIT	JARMUNDI CHHIT	SITKBANA	KUSBAD	JARTAL	PAHARIDH	KAPARJORA
JARAKURWA	BHAGWANPUR R	KURWA	PATNUKA	BARADDUBA	BHANGIDI H	PAHARPUR	BASMATTIKAR
KOLHAKUND	JARKA	RAYPUR	TILBERIA	CHHUTIA	PETJAM	GHORMARA	TETIVADH
PARIPA	BAGHIA	LAKHIBAD	SOGRADANG AL	NAVASAR	AMRI	DHANDH	PHUJORI
BURHADANG AL	TARABAD	NARAINPUR DAMUSINGH	PATSARA	BANSGOHARI	KHORBAR	KALIPUR	JAMNIKOL
KHETORIBAHI AR	BAGHMARA	DAMUSINGH A	MEGHA	DALDALI	DALDALI	BICHHU BAHIVAR	PURANA DUMRIA
JARMUNDI CHHIT	BASUKINATH	BANSBUTIA	TARATIKAR	BIHAURI	BASJORA	KURWA	BASPURIYA
JARMUNDI CHHIT	PARARIATANR	AMBA	TETARIA	JAMDHARA	CHANDNA DAULATP UR	DUBA	MALAIPUR
BASMATTA	TALHARI	BIRAPUR	BHORASARA	AMBA	KUSUMDI H	BIRAPUR	LOGAIN
BARA	HARIHARPUR	MAHGAON	DAMUSINGH A	JARJADH	SHUNNAGAR	SHUNNAGAR	MAJHLADH
BARARI	PANDEDIH	LUSTANR	AMRATIKAR	PATHRIMAHESH LIT	NAWADH	SARAIVA	SAKRI
TINGHARA	PAHARIDH	KORAIVA	BIHAURI	KUNDWE	GHARTOPI	BARMASA	PARARIYA NAWADH
THORI	TLWAMARNI	KENDKHAAR A	DAMUSINGH A CHHIT	KUSMAHA CHIKANIYA	GARHITAR	GAENDI	LODHRA
BELA	JHILUWAMAR NI	THANPUR	RAGHUWA CHAK	JARKA	BAGHJORA	SAHRA	GANUATANR
MATHURA BILTURI	TETARIA	PAHARIDH	KUSUMKAN ALI	AGOYA	GARDA	LADAR CHHIT	KUMARSAL
DUBA	HATHDUBA	PATRI	DHAMATAN R	DAMUSINGHA CHHIT	DOMAHA NI	BHALUWA	DUMARIA BAHIVAR
BIRNA	JHAJHA	TLAUNA	NARGANJ	SIKANDARA	GAMHARI A	RANGABAN DH	NAVYA KURWA
KURWA	NAWANIPATH AR	KURWABIRN A	SIBGANJOL A	MITHMARA	BANSBER WA	KATARIYA	BAHARKUNDA
SANKARPUR	KARWA	JAMIUNBAN DH	NORIA	NAKTI	BITHKA	HETH TINGHARA	KURUMTANR
BOKLA	PATWAI	LADAR	JOKA	TINGHARA	JANGALPU R	UPER TINGHARA	JHAGRAHI
SIKTIYA	UDALPAHARI		PAHARIDH	TARAN	KAIRBAN	NAWADH	



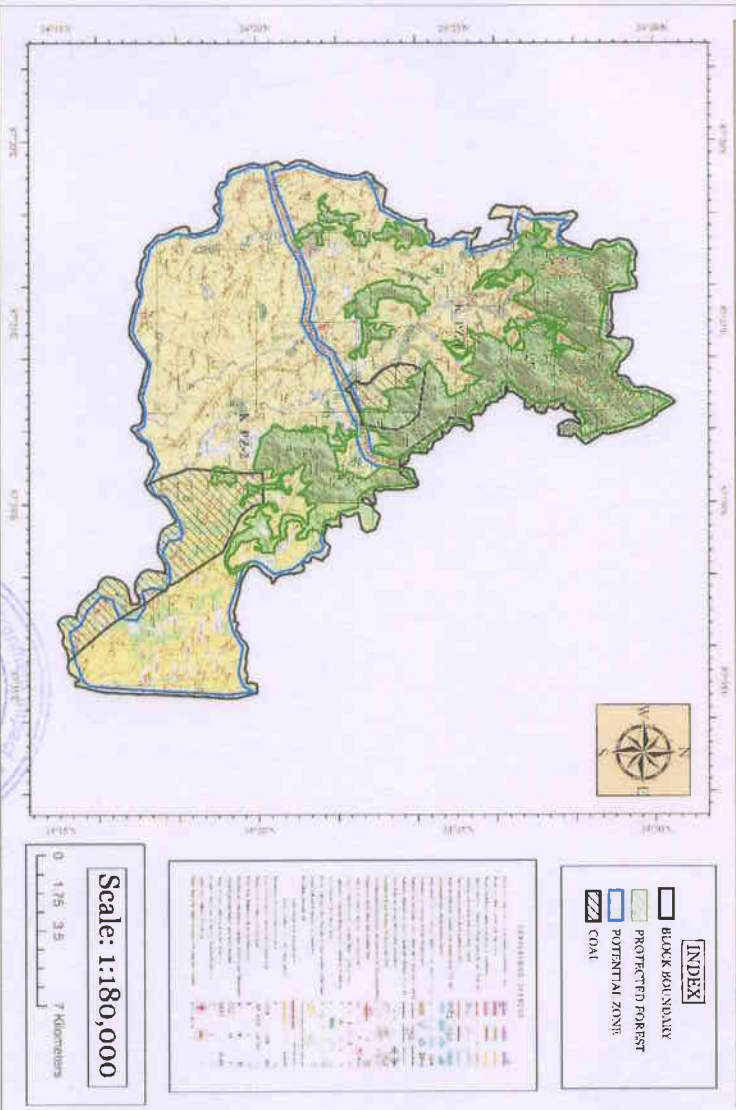
District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Dumka District, Jharkhand.



Map Showing Identified Potential Stone Deposits In Administrative Boundary Of Block - Kathikund
Dist- Dumka, Jharkhand, India



POTENTIAL ZONE DEMARCATION ON KATHIKUND BLOCK OF DUMKA DISTRICT



District Survey Report for Minor Minerals other than Sand
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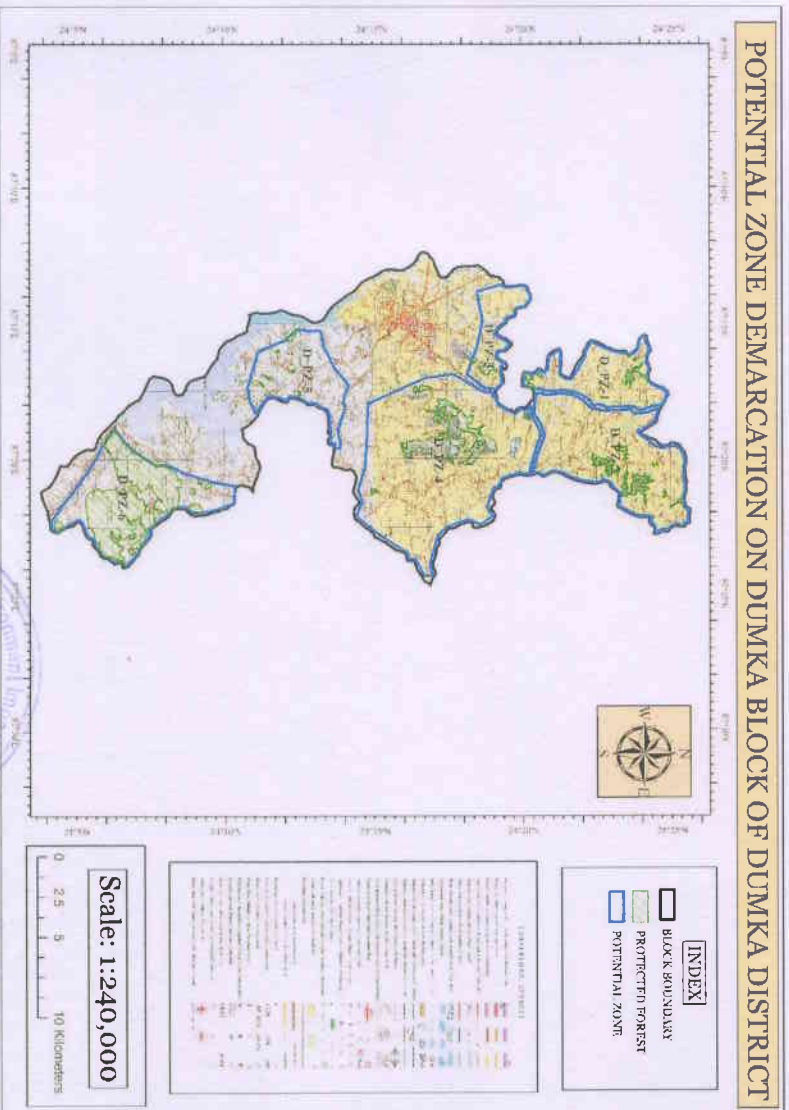
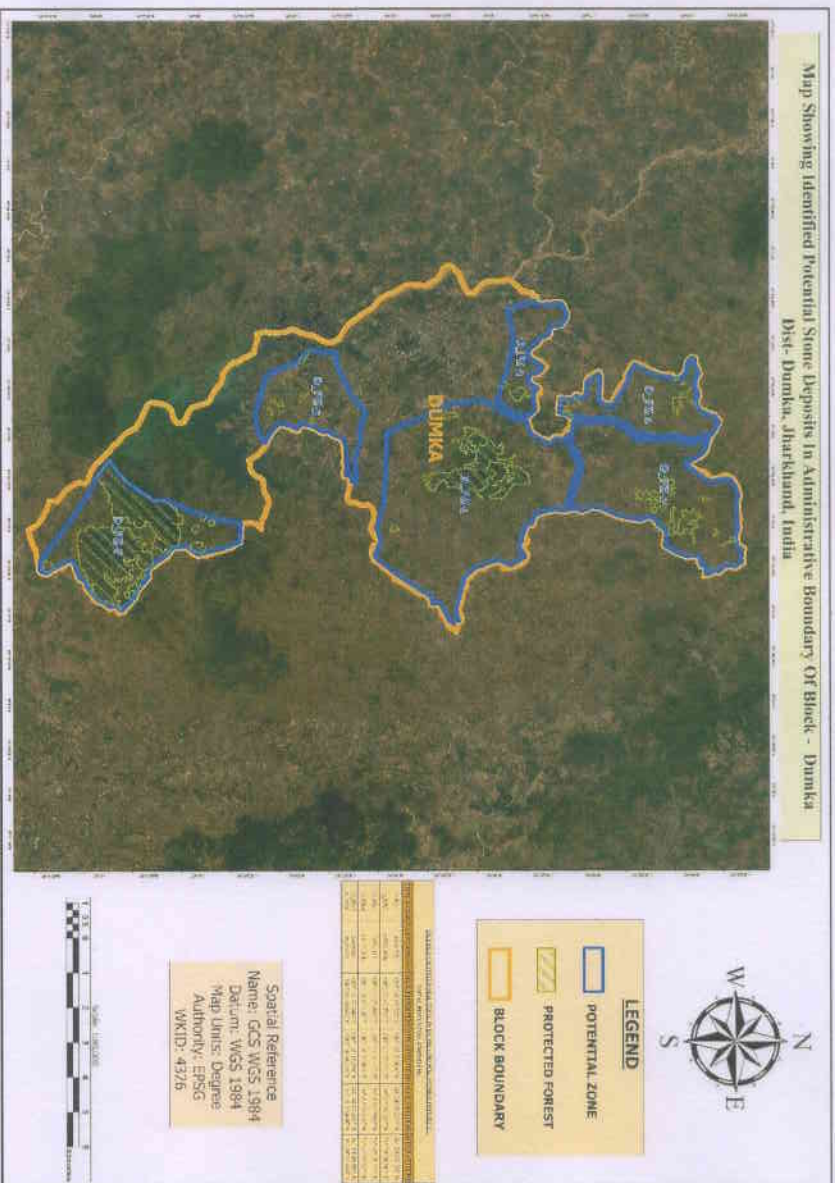


VILLAGES OF KATHIKUND BLOCK

KULKANT	TAKRARPUR	MADHUBAN	KANDARPANI
AMGACHHI	JANGLA	BAMANDIHA	MURBHAGA
CHHOTA	BHAGHASOL	KARARBIL	DALDALI
SARWAPANI	MOHANPUR	SANKARA	AMGACHHI
BAGJIHONPA	ERO	AMBA	POKHARIA
NONADANGAL	KHAIRBANI	HARILA	MOHANPUR
LAKRAPAHARI	CHANDPANI	PAHARPUR	BELAIKANDER
CHHOTA MARGANJ	RANGAMETIA	MANGALPUR	DHAMNAHI
BARA MARGANJ	CHANDARPURA	AMJHARI	KUSUMBA
SAHRITOLA	TELIA CHAK	KARANPURA	BUTBARIA
CHARKAPATTHAR	TELIA CHAK	LAKHANPUR	SUGARAHARI
KASIKUL	BAZAR	KODAL CHHOLA	BHALSUMIA
PHITKORIA	SIBTALA	MAJHDIHA	CHIRUDIHI
BHAWANRPATTHAR	TELGANI	KADMA	DALDALI
KADARMARA	DHAWATANR	BHITRA	CHHOTA
BHANDARO	DUBAIDIH	KOLHA	PHULHARI
BARA CHAPRA	HARIPUR	JHILMILI	BARA PHULHARI
MAKRA CHAPAR	BICHHIAPAHARI	KAURIA	DHAWADANGAL
PATHRAKKUNDI	BARTALA	CHANDPUR	RANIPAHARI
PIPRA	KALHAJHOR	PANDANPAHARI	JALUADUBA
NAYADIH	SAHARJORI	MAGAHIR	TINROLIA
RAMPUR	ALUARA		TALDIH
BARA KATHIKUND	MUSABIL		



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



Approved
Level Environmental Impact Assessment Authority

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

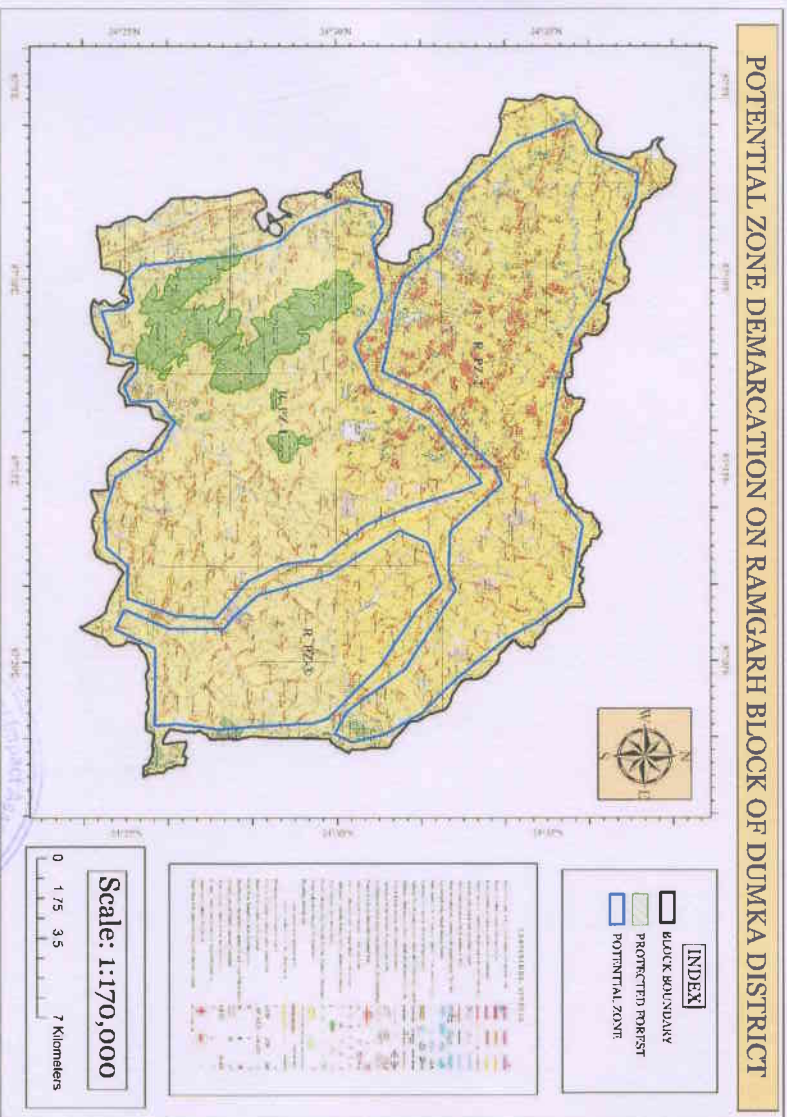
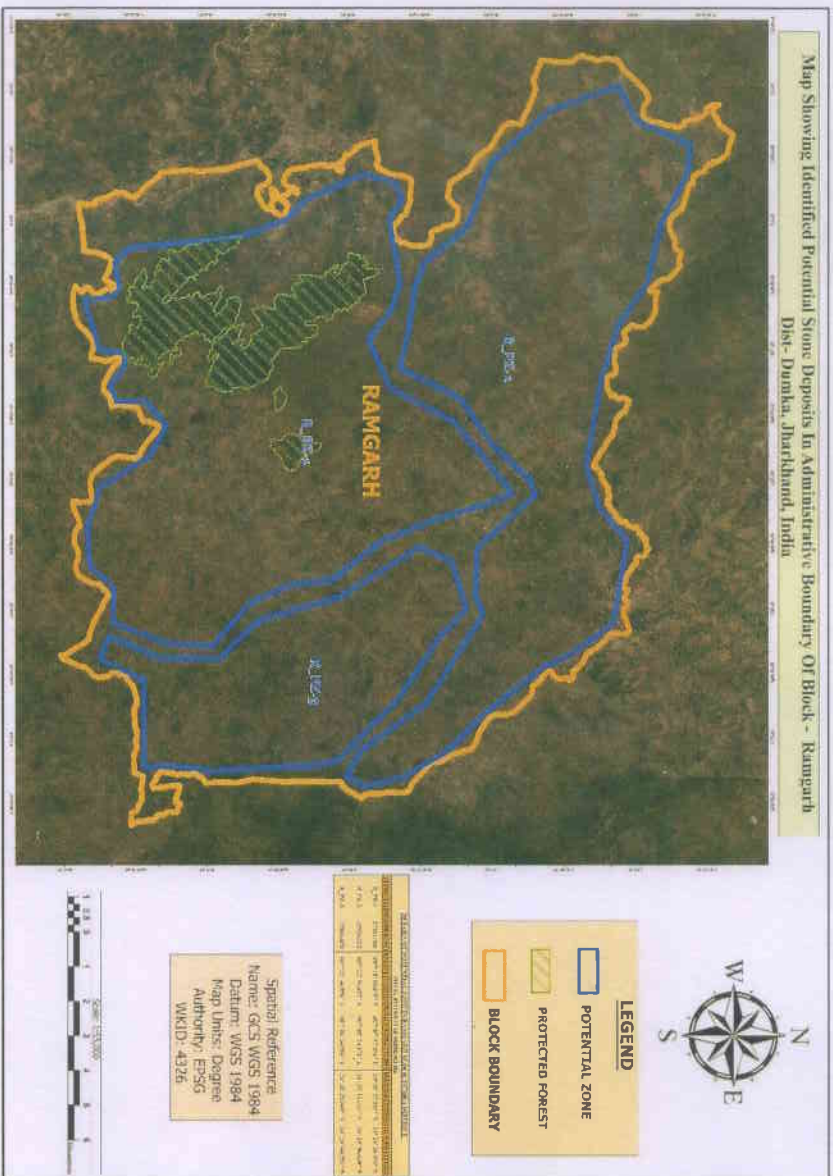


Villages of Dumka Block

RANINDA	SJUADUM	GODIKORIA	DUNDIA	KARMATANR	JANGAL BLOCK
KALHA CHAK	CHAKMOHA	SUJANPUR	UPAR MAJHIARA	DASORAYDIH	JITPUR
DUM	MURLIDUM	BHARODIH	HET MAJHIARA	MAHESULTI	NARATALA
HATHIMARABELNI	KURWA	KHATANGI	BHURKUNDA	RAMPUR	DHAWADANGAL
BANSBERWA	BARA AMIOLA	KHAPRO	LETO	BANSIORA	PANJANPAHARI
PATHPARANI	KOWADHAB	HETKORAI	GOBINDPUR	BEHARABANK	KULDHA
NAWADIH	RAUGAON	GHARBHANGA	TARAJURI	SITARAM CHAK	MURGATHALI
BARATANR	PAKRIA	CHANDDIH	BICHBINDHA	DHADKIA	CHIRUDIH
ASNA	MAHUADANG	SARSARIA	MAHULBANA	ASANSOL	RASUPARA
HARIA URF CHIRIKMARA	BAGHPATHA R	PICHHULI OR JATAPARA	LAKRAPAHAR I	CHAKTARU	KULUNGU
KERABANI	DHOGRJA	SIRAMPUR	HETKORAI	CHORKATA	ASURDHA
CHHOTA AMIOLA	AMRADUM	MAJHDIHA	KARAMDIH	MURABAHAL	JANGAL BLOCK
GHATGHAGRA	DUMARSOL	BARATANR	JHOPA	SALUKDOBA	RAHARABARA
KAMARDIHA	MURLIDUM	JHKTI	BRINDABANI	KENDABAD	RANIBAHAL
DHARAMPUR	KATHKOP	HARNANDANGAL	PHTKORIA	SAHARGHATI	NURAI URF NURAI BATHAN
KAMARDIHA CHHIT	PARARIA KUSUM	DHOBINCHIPA	RAVBANDH	BANKATI	DEWANBARI
ASANBANI	MAJHDIHA	KARIKADAR	RATANPUR	MATIPUR	KATHALDIHA
BANKDIH	PELINBANDH	GARDI	ASANBANI	KENDAPANI	PATHPUR
BHURANDIHA	MACHHKHICH A	PATTHARGORA	MURGABANI	SABALPUR	TTADIH
LOHPAHARI	PATHTATHAN	MALBHANDARO	JARADIH	NAWADIH	RAMPUR
BARAI	POREDIH	CHARAKANDAR	SIDPAHARI	BAIDYANATHPUR URF BALABAHAL	BAGNAL
MIRLATOLA	PAKARDIH	BURARI	MURVBHANGA	TULARAYDIH	JAGUDI
MAKRO	BHURISIMAL	BHIKA	DHANBARI	JAMDALI	BASWATA
KASIKOL	CHAINPUR	DHARIA	KALPATTHAR	KESIBAHAL	KARMAATANR
SANPDAHAR	CHHOTA AMIOLA	BANDARPANI	CHIRUDIH	DAKRI	SALTALA
SANPDAHAR	MIRLATOLA	BHALPAHARI	DHAMNA	BAGLAJURI	TILIA CHAK
CHAPRIA	KAYRABANI	NAMOTOLA	SAHARGHATI	GUNIAJORI	NAWADIH
SAGARBHANGA	HET MURGATHALI	SINGNI	DHABNA	GOLPUR	GHASIPUR
MAURNAGCHA	JIATTHAR	MAGBIL	GANDO	CHANDPANI	GUNIAJORI
JAPAHARI	SAGBEHARI	SUSANIA	KURUMPAHARI	DIGHI	KADOKHICHA
BARTALI	KHAYERBANI	DALEMARNI	JARKA	KHOSALPUR	KADOKHICHA
AMLAGARIA	UPAR MURGATHALI				



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



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



		VILLAGE RANGARH ^{of} Block <i>AD</i>			
GOSAINKITA	DOLA	MAHESHPUR	HATHIA PAHARI	KHARIKADO	SAGARBHOGA
JAWARI	PUNSIYA	PUREYAKTITA	JHANJHAR	BURJHILUA	TARATIKAR
SARAUTA	SAHARPUR	CHITBESRA	KHARASOL	AMARPUR	BASTERWA
BHATURIA	KULA PATHAR	KANI	ANGUTHIA	KABE	KAMARBANDHA
NAKRAPAHARI	RAJAMAR	ROLDIH	JOGIA	ARARIKABE	THARIHAT
KARBINDHA	PARDANIDUMA	PATGORA	DHAWA	ARARIKABE CHHIT	PHUDNI
BASKIA	PARASBAD	BANSBARWA	LOHARDIH	DHOPAHARI	GANDAK
DUNDA	KUSBANA	ALUWARA	KUSMHA	CHUITA	DUDHUA
JHUJHIA	MAHADEVASOL	LAUDHIA	RUNDAI	PHITKORIA	SAROKHA
SUSANMA	KUPI	BISHUNPUR	JAMUA	KURUKUNJ	PACHUATIKAR
MAJHDHA	JIRAUJA	MAJHDHA	KURMA	PINDARI	KACHUA
BHORANDHIA	MATHTOLA	SELAHARI	DHANOR	SJUA	PATRAMPUR
PINRARGARIA	SARAEANI	GIDHIANA	JANKGARIA	JAWARI	RANIDH
DHOLPATHAR	MANBARI	DUMARIOR	MOHARIA	HARWA DANGAL	LAKHANPUR
KUSUMAHA	HETH GARAHAN	KURUWAKITA	KENDKHAPARA	KENDUATIKAR	RAMPUR
BAGHMARA	BAUA KHARA	MOCHIKHAMNAR	RAJABANDH	ELAJ PAHARI	PIPPA
GARDIH	BAKUA	SUHODUHO	DANRO	PAHARPUR	KARUDH
CHANDPUR	DUARPAHARI	ITBANDHA	MAHUAPATHAR	KUKURKATA	DEUPATHAR
KOAM	KURAMBA	BAGEINDHA	RANGAMATIA	JHAGRANIKITA	POKHARIA
AMBASOL KAKANI	BANSDUMA	GAMHARIA	BARA RANVAHAR	ARAZI DHAGRI	JAGATPUR
KAKAN PATHORIA	HETH BARACHAPAR	GHORDAUR	NAVATIKAR	ARAZI DHAGRI CHHIT	NAWADH
KHARVANI	UPAR GARAHAN	TLATANR	DHOLKATTA	THARI	GARRADAHARI
KHARIBANI	UPAR BARACHAPAR	PATHARIA	DHOBANI	MAHUBONA	KUSDHIA
SANKARPUR	SAPDAHAR	TLAUNDHA	SARWURIA	MAHUADANGAL	DANUDH
BAURIA	SILTHA	PUNSIYA	CHHOTA RANVAHAR	BHORA AMI	KUSBEDIA
LATBERWA	BARA SIMALPAHARI	PINDARI	PANRUA	SADHUDH	RAIDH
PUMIA	CHHOTA SIMALPAHARI	MADHUBAN	PHULLORA	DHANIPAHARI	BASDINA PURAVTOLA
THARIKHASIA	DAHJUR	PATSAR	MARGAWAN	BAVUPATOJORIA	BASDINA PACHHIMTOLA
SIKATIA	MILANPAHARI	DEL PATHAR	THARANI	JHUMARPATOJORIA	JARI
MADHUBANI	PARARIA	DUMARIA	KANTUKITA	SEMAIDUMA	DALGI PAHARI
GARDIH	KUNDA	BHALSUMAR	JABJABIAKITA	TAL	PATOVANDH
MARPA	BARA GORRO	KABILASPUR	GAMHARIA	BICHGARHA	KURUMTANR
KURKUTIA	AGGIAVAHAL	ULATARI	BHATIN	BELATARI	MARANADH
NANDANKOP	PORAI PANI	BOKNA	SILPAHAR	KURUMTANR	LAKHNA
THENGIMO	NAWADH	BAVUPUR	KHUTAHAN	JITNA	KUSIAM
BHATKUCHUA	BARATANR	MAVAPUR	BHAGABANDH	GHAGRI	APPANARI
BELA TARA URF TARATIKAR	CHHOTA GORRO	KHARGAKHIL	KHUDIMIRKHI	ARAZI BANDARJORA CHHIT	PAHARPUR
DHARAMPUR	SABEDUMA	THARI	SILTHA	ARAZI BANDARJORA	SATRALA
KONAPATHAR	KAGMARA	BUDHUDH	ORTARA	BANDARJORA	TALHARNI
AMJOLAKITA	SARWAPANI	KANIVAJAMAL	AURATIKAR	PHULLORA	BAUA
CHANDANPAHARI	SARAI PANI	MOHANPUR	PARMA	NAUKHETA	PACHUATIKAR
BARA VAHAR	KATHALDH	MARALCHAK	BARA PAGHAR	BINDASARAI	JARUADH



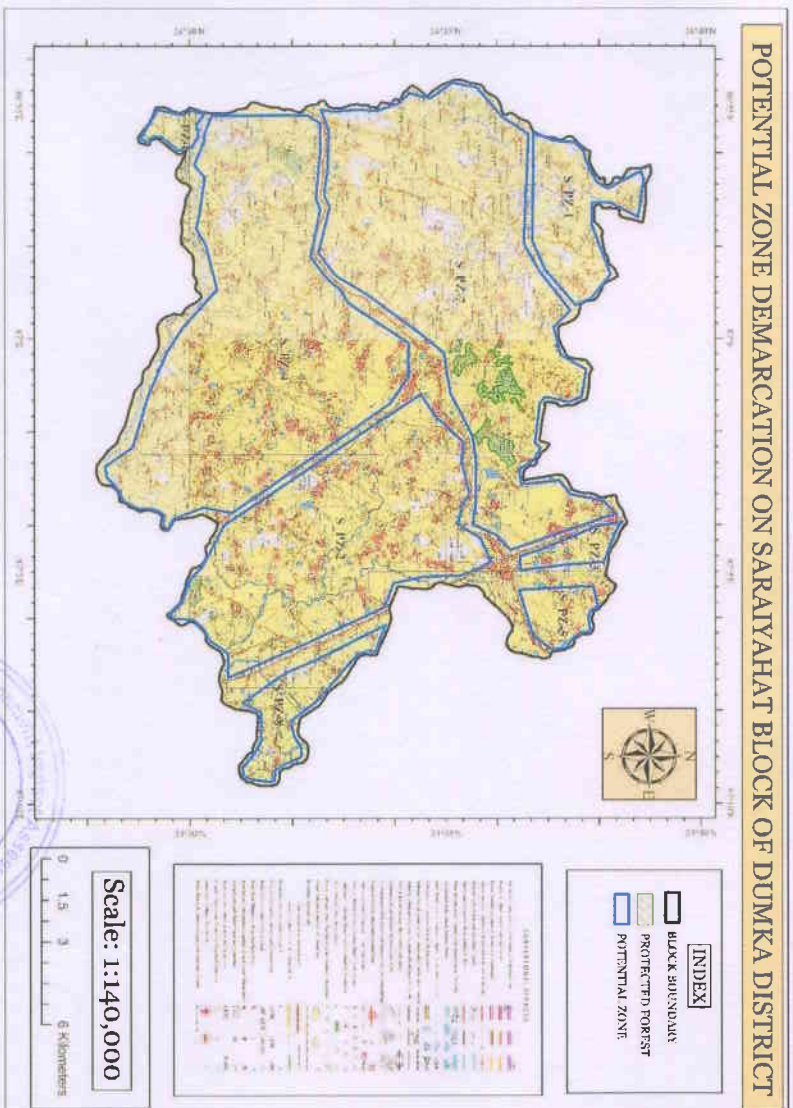
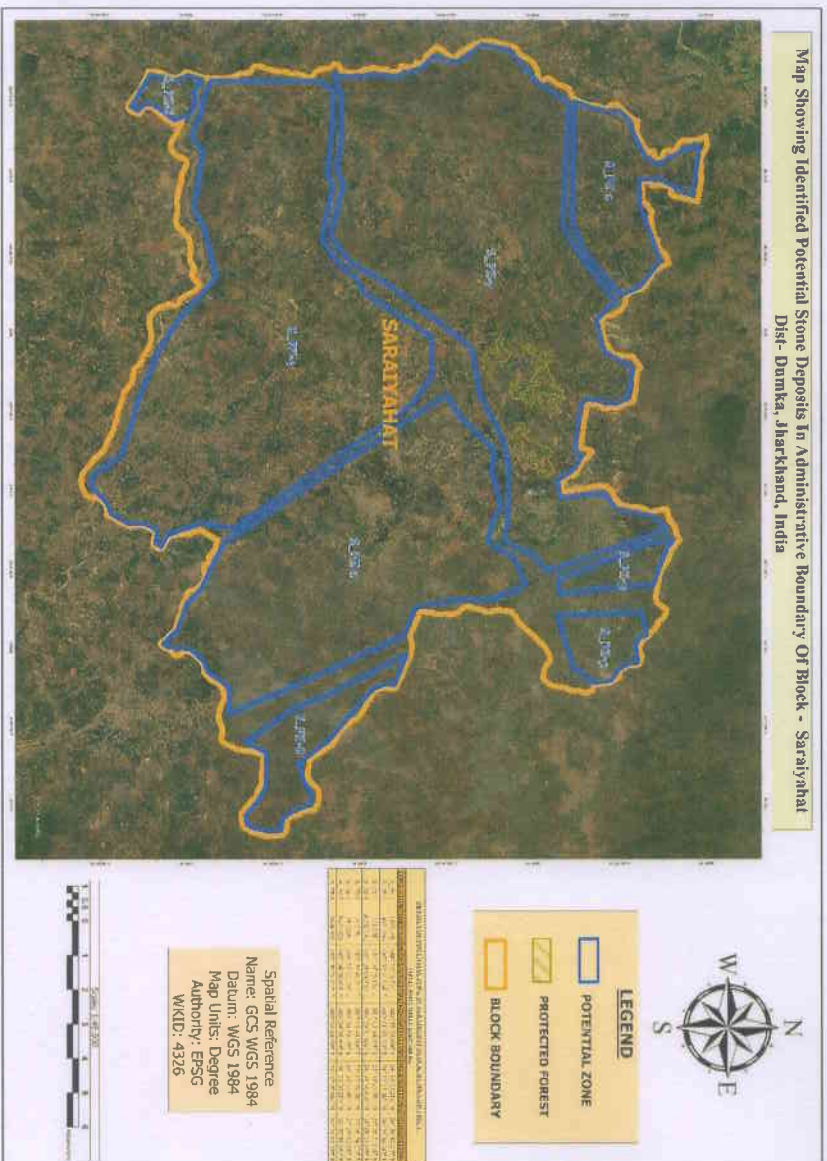
**District Survey Report for Minor Minerals other than Sand
Mining or River-bed Mining for Dumka District, Jharkhand.**



MURGIDUMA	JIAPANI	AMRAPAHARI	KAPATI	DHAWATANR	AMPARA
KECHUA	BANSDUMA	JORDIHA	KENDUA KANAUCHHIT	JALWE	BHUSKIBARI
HETTBHELWA	BICHGARH	SEWARDUMA	SARSA PURABPATTI	KANDHARA	DHOLKATTA
NARAINPUR	DAHICHUA	JAMBARI	MOHANPUR	TELADIH	MANRO
THENGA PAHARI	KASIADUMA	TITGO	GARDI SARPAHARI KURWA	BARAMASIA	KUSUMDIH



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



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



VILLAGE SARAIYAHAT ⁰² Block ^{AS}

TARGACHHA	POKHARIYA	BIMIYA	NAUDHA	BANK	MATHA	KAMAT PATHARA
BENA	HATHGARH	GIDHAPAHAR	SONABAD	JAMUA	ARAZI KACHUA	PURANA DHOIGARIA
KHUTAHARI	MAHTODIH	MATHANI	RAMTARIKITA	KOLHARIYA	BANDARDHASA	PAGWARA PURAPPATTI
AMAJORA	KHEBBARI	TILAKPUR	RAMTARI	TITMO	PICHHRI	PAGWARA PACHHIMPATTI
GHAGHRA	SIRABANDH	JAMUA	RASAKOSA	KAKANIA	DAHUA	S_PZ-1SARAIYAHAT
AMAJORA	DHAMNAKUNDA	SURADABAR	PANCHTIKRI	CHANPUR	ARAZI SUGI	GADI JHOPA PARARIYA
SUNDRI	MAHESHJORA	POREJOR	BHAGAN	JAMUNIA	KACHUA	JHILLUWABHATBHARI
NIKTI DUMRIA	MADHUBAN	DHAWATANR	CHHATNA	CHIUTIA	RASUNIYA	DONDIYA
MALDA	BAJIA	BARMASIA	RANKUDIH	BARDIH	SADALPUR	BARURAI KURAWA
BAMNICHOURA	TURKDIHA	CHIKANIYA	RASAKOSA CHHIT	PARSA	DHOLPAHAR	PINRRA
KASAUNDHA	JAMUA	AMGHATA	HARAM	BHALUA	KURUMTANR	BAGIARIYA URF CHANDUBATHAN
KADIYA	SARWA CHHIT	JYAJOR	NAUDHA CHHIT	TATARIA	SUGI	PARASDAH
MOHARIKITA	KHOJWA	PATSAR	GHOGHA	CHORBATIA	KURUMTANR	SANGRAMPUR TONGI
GANGODAHAR	PANCHUBAD	PAHARIDIH	KANJUR	BAMANKHETA	TARAUIN	BAGHMARI
GOBINDPUR	CHILRA	KUSUSMDIH	BHELUWADANGAL	DHOLPAHARI	TINGHARA	BARNHET
BIRNA	TETARIA	KHAMA	BHANGABANDH	CHANDARA	DONDIYA	BHATURIA
KENDUA	MOHILA	BAGDANA	BARAMASIA	CHICHEHRA	TETARIA	SEMRA GHAGHARBARI
BAUPUR	SARWA	KURWA	TAMRA	PAJUDDIH	GOTHBARAN	MAHES KHANDA URF PINDRADHAB
BARDAHI	MANDALDIH	TETARIA	UPARCHAKWA	DHAWATANR	BHORIA	KUMARCHAK
SALAIYA	BANHATI	KORDANA	KORDINA	AURABARI	NAWADIH	JARAHARIA
BHALUA	GORADIH	DIGHI	MAHURA	KARAMPURA	PIPRA	JAJPUR
BIRNIA	SARAIYA	SAGAR CHAKKA	BARA	BHALSUMI	JAMUNKITA	
JAMJORI	HANSIDIHA	KITA JAMUA	ASWARI	CHAMPATARI	AMBA	DHANKUTTA
KUNJI	TARGACHHA	BHALUA	BHADRAKOL	BINUDA	KURWA	SARSA THARHI
LAKARBANK	BHAGTIADIH	BHALUA	THIRI KHAIKWA	NAWADIH	NAWATIKAR	DHAWATANR
KHAIRBANI	KASBA	BARATANR	BHORANDA	KUSBEVIYA	KADRUVA	MAHESH KHANDA URF PINDRADHAB
TELDIHA	KHURWA	HARLATANR	SAMHUTA	CHANHET	NAWATIKAR	BASHERWA URF DHOVA
JOKELA	MAHADEVAGARH	MALGHAGHAR	AMDIHA	PAHARIDIH	BAHERADIH	GHAGHARI
BHAGWANPUR	SINGINI	CHORAJOR	CHATRA	BISANPUR	CHATRAM	NAVA DHOLGARIA
JABIJOR	BARJARA	KOLHOR	BATHA	BAJUPUR	DAHRA	SINGHINIA
NAWADIH	KAMARDIHA	GOARI	RISIBED	BHUTATARI	BIRAJPURCHHIT	NAVA LOHMARWA
LAKRATANR	SIVAKHOR	THANDARI	RANGA ASNA	MADHUDINDA	KOTTA PAKAR	BISHUNPURCHHIT
KURMAPAHAR	PORAIYAKITA	DHAUNI	POKHARIYA	ULLABARAN	BANDRA	BISHUNPUR CHHIT
PATHARIA	HARAWA	MATHIHARA	KAKNI	LODHRA	BIRAJPUR	MARI KAWADIH
KUSIARI	NONIYA	SITALPUR	GARBHER	HARDIYA	DHANWE	ASIKHANDDHA
BELTIKRI	MARDAURA	BEUDHAB	MURIVAR	DUMARTHAR	SAGRAMA	ARAZI BELODIH (RAGURAICHAK)
MAHTOPATTI	AMGACHHI	MOKAPUR	NAWADIH	HARIPUR PURANA SAMAI	RAMPUR	MATHAKESHO
CHIHUTIA	KURWA	BARKUNDI	KHIRDHANA	SAMAI	DILARA	PANNE KESO



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



BHOJA	PINDRA	BARMANIYA	NIPANIYA	PHITKARIYA	JANKI	HETH CHAKWA
RAIABAD	DHADKIYA	KALPUR	BHURKURIYA	BAIGNI	AITHURAYDIH	GAIPUR
LORHIKUNDA	EKSINGHA	NAUDIHA	JAMUA	MODIVADIH	DHOBARNI	PURMA LOHMARWA
CHUNA KOTHI	PATHARA	KURMA	JHABARI	BELODIH	SADHUPUR	SAMA SOBHA BARAR
BARHAT	NAWADIH	SUMERIPATI	PATNUKI	ARAZI BELODIH	GANGTA	NAWADIH
PACHAITA	AMIORA	BAKULA	KANAULA	AZARI BELODIH	RAKSA	SAPHA
RANGA	BARMASIA	CHICHAHARA	BAGHAUTA	LALPUR	RAUNDHIA	SARMARA
POKHARIA	DHOBAMA	MANIKPUR	KANAULI	DOMSI	KARUDIH	JAGATPUR
BELWARA	PARKHETA	JALBE	KURAHARIYA			

BLOCK NAME	AREA (HA.)	AREA IN (Sq. M)	AVG. DEPTH	VOLUME IN CUM
SARAIYAHAT	63407.888	634078880	35	22192760800
KATHIKUND	55166.078	551660780	33	18204805740
RAMGARH	88858.883	888588830	40	35543553200
MASALIA	78592.299	7859222990	36	28293227640
JAMA	73884.709	738847090	37	27337342330
GOPIKANDAR	37080.505	370805050	39	14461396950
SHIKARIPARA	80294.212	802942120	33	26497089960
RANISHWAR	57703.199	577031990	30	17310959700
DUMKA	47655.524	476555240	35	16679433400
JARMUNDI	78097.056	780970560	36	28114940160
TOTAL				234635509880.00



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



Blockwise Identified Potential Village list for Earthwork

DUMKA											
	KENDRA	SIJUAJUMI	BANSORA	DUM	HERBAIL	BARDAHA	MIRLATOL	GOBINDP	DOMOHA	NETUR PAHARI	
SARUA BIJAPUR	HARLI BANSGANA	JANGAL BLOK	CHAKRAGH A	PASORAKOTI H	BUSBANOD	DARBARP UR	DHOBING HIPA	TARAUUR	SIDPARAR	SOWWADANGAL	
NAWADI H	JHAJHA PARA	JATHAR	MURLIDU M	BANSBER WA	TULARAY DH	NERUAPA HARI	KARIKADA R	BICHBIN DHA	MURBHA NGA	MAHUADANGAL	
KUHARI A	JITPUR	SAGEHARI	KIRWA BARA	PATTHARP ANI	JAMDAL BIJAPUR	TTTADIH	GARDI ORA	ANA MADHUA	DHANBAR	PURAMA DUMKA	
LETO	RAMDIND A	MASANOD R	AMJOLA	NAWADI H	KESTIABA HAL	RAMPUR	PATHARG ORA	LAKRAPA HARI	KALIPATH AR	PICHHULI OR	
NAKI	NANKUKU RUA	NARATALA	KOWADHA B	BARATAN R	DAKRI	BAGNAL	MALBHAN DARO	CHAPAKA NDAR	KURUA	MADHUA	
KUHADA R	BAGUBI	DHAWADA NGAL	KAJGAON	ASNA	DAKRI	JAGUDI	CHAPAKA NDAR	CHAPAKA NDAR	GODKOR LA	CHIRUDIH	
BAJA	GHARBHA NGA	PANJANPA HARI	PAKRIA MAJUDA	ANDIPUR KERABAN	BAJLAJU R	GOALSIM LA	BIRIARI	KURUA	DHAMANA	HARI DRE	
DUMKA	DHAWATA NR	KULDHA	NGAL	BAGHAPAT HAR	KADAI	KARMAATA NR	BHKA	SUDANU	SANARGH ATNI	CHIRISWARA	
BAGNOC HA	CHANDDH	CHIRUDIH	DHOGRIA	POREDDH	LAKARK HOAR	KARMAATA NR	DHARIA	BHARODI H	SUDANU	DHAMANA	
DUDHAN I	SANSARIA	RASUPARA	AMRADUM	PAKARDI H	BARATH AR	DAMRI	MAKRO	KHATAN GI	GHANDO	CHANDPA NI	
SIRAMR A	KULONG TI	KHAVERBAN I	DUMARSO T	BHURISI MAL	GOPIUR	SALTALA	KASKOL	KIARRO	GHANDO	CHANDPA NI	
JOGIDIH	SIRAMPUR	ASURDAH A	MURLIDU M	CHANNPU R	CHAK SAKSABA D	SURIPALA N	BHALPAH ARI	KARAND HI	GHANDO	CHANDPA NI	
KARANI OLA	MAHDHA	JANGAL BLOK	BAGHDHO PA	CHHOTLA AMJOLA	CHAK SAKSABA D	SURIPALA N	BHALPAH ARI	KARAND HI	GHANDO	CHANDPA NI	
PAWADU HI	BARATANG	RAHARAP ARA	KAITHKOP I	GHATGH AGRA	SIRSA	LODHPAH ARI	NAJOTOL A	BRINDAB ANI	CHAPRA	CHANDPA NI	
ONMA	BAWUPUR	BANDAR KONDA	PARARIA KISIM	KAMARDI HA	GUHAORI	BARAI	SINGNI	PHIKORI	SAGARH	CHANDPA NI	
HULA	RANIBA HAI	MAHESLIT	BARKEADI H	MURUA	GOAMD IH	KALHA CHAK	NAGBIL	RAIBAND H	ANGA	CHANDPA NI	
JHKTI	HARWADA NGAL	RAMPUR	MALHDH A	DHARAM PTR	HARIRAY DI	TIKAPAH ARI	SUSAXTA	RATNAP UR	CHACHA	CHANDPA NI	
HARINAK URI	MUKKRALI	MIRJORA	PELMBAN DH	DHAKIA	BALJURI	BALIRAMI	DALEMAR NI	JAMKAN DAR	BAITAI	CHANDPA NI	
MURTAN GA	HATHABA THAR	DEWANBA RI	MAONHKH IGA	ASANBAN I	PARSAIL A	DGHI	SANPPAH AR	ASANBA NI	AMLGAR IA	CHANDPA NI	
KHEURI A	HARIPUR	KATTHALDI HA	PATTHATTH AN	BANKDHI	BAMAXND HHA	UPAR MAJHIAR A	GHUAIJOR I	MURGAB ANI	KHOSALP UR	CHANDPA NI	
BEDIA	PHASADA NGAL	PAHARPUR	RANINDIND A	BHURAN DHA	PIATTH PR	TIET MAJHIAR A	DUNDDIA	JARADHI	KAYRABA NI	CHANDPA NI	



DISTRICT MINING OFFICER
DUMKA

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



GOPKANDAR

SAHARA	KARMO	PAHARPUR	BURHICHAPAR	DUMARTOLA	DUNDUA	GOGAOR
BARA PAHARI	JHANJHKO	BHADRADIGHI	GAMHARIA	BHELAI GHATTI	AHROCHUA	DHAWADANGAL
KOLOLO	TALKHORA	AMJHARI	RAMPUR	DALDALI	KALEANPUR	PIPARJORIA
TESAPHULLI	CHETOPOKA	DIGHAPARBAT	MUSNA	DUARIA	AMLADANI	PINDARGARIA
KOLHA	JOLO	LAKHIBAD	RAMBANI	TALBARIA	TAMI	KHARNI AND KHARNIBAZAR
AMDIHA	KHAJURDANGAL	KAJIKEND	JITPUR	JANAMDIH	BARA BATTHAN	CHHOTA BATHANPAHARI
SARKHI	DHOBACHAPAR	JORA SIMAL	DHARAMPUR	KOCHAPANI	NAMODIH KHAS	BENGDABA
SARKHIPAHAR	KULAI PURA	PURANA KHORA	KURUMBA	SUGAPAHARI	DIGAL KHARNI	KARIPAHARI
KACHUA KANDAR	DUDHAPAHARI	PALASBANI	KHERIBARI	BANSPAHARI	KARUDIH	CHIRUDIH
CHUNJO	DURGAPUR	BABUPUR	CHANDARMALI	MUROSAL	KARMAITANR	MADHUBAN
HETH SHITANGI	RANGA	JAROPANI	JHARIAPANI	AMARPANI	KASAI PAHAR	ORMO
SIHINGI PAHAR	DHOBARNA	KUARPUR	BARATAI	DUMARIA	BIRAJPUR	BHANGAHIR
KHATANGI	MAJURABARI	SARUAPANI	KATUIDANGAL	KOLAJORA	PARBATPUR	PINARGARIA
KHATGANWA	KUSKIRA	PUJADIH	DUBRAJPUR	TENGIOR	SURJOODIH	MAJDHA
KHARIKASOL	GUMAPAHARI	BAKLOR	BHANGABANDH	ROLDIH	PAHARPUR	KOYADA
MAHALDABAR	BABUKHURA	KAIRASOL	BHUSKIDANGAL	CHIRAPATTHAR	AMARPUR	KUMARBANDH
KUNDAPAHARI	PIPPA	JHUNTTCHADAR	GOPKANDAR	SIDPAHARI	JAMCHUA	CHHATARCHUA
NAMODIH	BHALKI	BARA PATTHAR	BALLA	KHAIRBANI	RAMGARH	GARIAPANI
MAHVALO						



**DISTRICT MINING OFFICER,
DUMKA**

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



JAMA									
LACHHMI PUR	KURUMTA NR	PIPPA GAIBATH AN	AMJHOR MANKACH AK	BHAKAMP UR	CHAKLOTTI PUR	KALIPURR ANGA	GANUAMARNI	HETBATHIAR MAHUWADAN GAL	SHANKARPUR JHAGRAHI
KATANGI	BICHHUA	TARATKA R	BHOTOKAU RIA	KATHNAR A	HEMANTP UR	MADHUBA N	MADHUBA N GAL	SHANKARPUR JHAGRAHI	HETBATHIAR MAHUWADAN GAL
KATANGI CHIHARBA NI	PURANIA JAMA	TARATKA R	BHOTOKAU RIA	KATHNAR A	HEMANTP UR	MADHUBA N	MADHUBA N GAL	SHANKARPUR JHAGRAHI	HETBATHIAR MAHUWADAN GAL
PHULOPA NI	SIBNAGAR	HARRAKH A	PANJANPA HARI	BANSJORA CHIGAL PAHARI	JHILUA KHAPCHU A	BARAMASI A	BARAMASI A GAL	SHANKARPUR JHAGRAHI	HETBATHIAR MAHUWADAN GAL
DUDDHANI	BALPORE	DALDALI	DUNDIA	KOLHARIA	SIKARPUR	HARLADAN GAL	HARLADAN GAL	SHANKARPUR JHAGRAHI	HETBATHIAR MAHUWADAN GAL
JAMOGOR I	JANGLA	MAHARO	MADHUBA N	CHAKLATA	NACHANG ARIA	KURUMTA NR	KURUMTA NR	SHANKARPUR JHAGRAHI	HETBATHIAR MAHUWADAN GAL
SAROPAH ARI	PUSARO	LAKRAPA HARI	BICHKARA	GHOGHRA ARI	CHEHARB ANI	KUNJBANA	KUNJBANA	SHANKARPUR JHAGRAHI	HETBATHIAR MAHUWADAN GAL
HETH SITUA	NAWADIH	MAGURDI H	SITAKAHAB AR	SUGAPAH ARI	AHLADDU MRIA	JARJOKHA PARANCHA K	JARJOKHA PARANCHA K	SHANKARPUR JHAGRAHI	HETBATHIAR MAHUWADAN GAL
BANK	PIPPA	LAGAN	BARUDIH	GANESHDI H	UPAR BALRAM	HATHBAL	DHORLI	SHANKARPUR JHAGRAHI	HETBATHIAR MAHUWADAN GAL
NAYADIH	PHULOPA NI	PHARASI MAL	KASIKORIA	BAUURMA RA	HATHBAL	DHORLI	DHORLI	SHANKARPUR JHAGRAHI	HETBATHIAR MAHUWADAN GAL
UPAR SITUA	AMRA	GOARI	AMLA CHATAR	GOBINDP UR	LEDHAPAI SA	DUMA	DUMA	SHANKARPUR JHAGRAHI	HETBATHIAR MAHUWADAN GAL
DHAKODI H	MATKHOR	BHATANI A	KADAMPUR R	BELUDAB AR	LAKARJOR IA	NAWADIH CHHIT	NAWADIH CHHIT	SHANKARPUR JHAGRAHI	HETBATHIAR MAHUWADAN GAL
SEJAPAHARI	JARUADIH	NAKTI	PAHARKOL	GOPAL NAGAR	BELDIH	ASANSOL	HARINGOHAL	SHANKARPUR JHAGRAHI	HETBATHIAR MAHUWADAN GAL
UPAR MAJHLANI	DHAWDIH	MAJOBA	JAMATANR	DIMJURI	BIGAI BANDH	NAVYADIH	NAVYADIH	SHANKARPUR JHAGRAHI	HETBATHIAR MAHUWADAN GAL
RAIPATTI SONABAB UPUR	KUKURTO PA	KUNDADI H	CHHATAPA HARI	PALASBAN I	LAKHANP UR	HARWADI H	HARWADI H	SHANKARPUR JHAGRAHI	HETBATHIAR MAHUWADAN GAL
PIPPA	KHAJURI	KORNI KATANIA	BHORABAD	UPARBAB AL	LODHNA	MACHADI H	MACHADI H	SHANKARPUR JHAGRAHI	HETBATHIAR MAHUWADAN GAL
PURNIA	GHAATLA	DARWEC HAK	SAMPUR PACHKATH IA	BARMASIA HARI	KULHORIA DAULATPUR	NAKTI	NAKTI	SHANKARPUR JHAGRAHI	HETBATHIAR MAHUWADAN GAL
BAHINGGA GADDIABLI I	BALIWA	MAKUNI MUSLACH AK	BEIDIA DOMAN PAHARI	MANKAPA HARI	LAKARJOR IA	KUSMANA	KUSMANA	SHANKARPUR JHAGRAHI	HETBATHIAR MAHUWADAN GAL
AGUIA	SEMRA	LAKARDI WANI	MURGABA NI	TARRA GADI JIRULIA	DONDIA	CHORKATA	CHORKATA	SHANKARPUR JHAGRAHI	HETBATHIAR MAHUWADAN GAL
TIJATANR MURKATA RI	CHHATAD HAKA KHARANA RA	BELTKRI MURLICH AK	GADI CHOTO	JIRULIA	HATHIGAR UDALKHA P	AGUIA BANDH	AGUIA BANDH	SHANKARPUR JHAGRAHI	HETBATHIAR MAHUWADAN GAL
THANPUR KHAROUN I	SARAIYA LAKHANA	BAJRADIH MURMAL A	POLJORI SARAJA	KURUA SAKRIGAL I	HETHBAHI ARI	BASKIA	BASKIA	SHANKARPUR JHAGRAHI	HETBATHIAR MAHUWADAN GAL
PARDABLI	SATRUKHA	PUSABAH AR	BASBUTTA	NONTI	PAHARIDI H	UPAR BAHILAR	UPAR BAHILAR	SHANKARPUR JHAGRAHI	HETBATHIAR MAHUWADAN GAL
JAMA	MATHA CHAK	SILANDA H	DUBRIKED ALI	BANK	CHIKNIA	DALDALI	DALDALI	SHANKARPUR JHAGRAHI	HETBATHIAR MAHUWADAN GAL
GHORIBA D	PIPPA	KURMAN	HARDIPAT TI	HATBARI	BHUKHAM PUR	KUMARMA TTA	KUMARMA TTA	SHANKARPUR JHAGRAHI	HETBATHIAR MAHUWADAN GAL
MAHULBA NA	DALDALI	DUDHANI	BHORA BADAR	DUNDIA	BHAIROPUR	TARAORA	TARAORA	SHANKARPUR JHAGRAHI	HETBATHIAR MAHUWADAN GAL
GONCHHU A	SARSABAD	BISUNPU R	KUNDADIH	LAGIA	BIRAJPUR	SIMRA	SIMRA	SHANKARPUR JHAGRAHI	HETBATHIAR MAHUWADAN GAL
SUGNBAD ASANTHA R	BANDO	ASANBANI AMGACH HI	MACHADIH	BIRAJPUR BAISA	JHUMARB AD	PARRIA	PARRIA	SHANKARPUR JHAGRAHI	HETBATHIAR MAHUWADAN GAL
PIPPA	PIPPA	AMGACH HI	SEMRA	BAISA	TENGDDHO WA	TINGHARA	KADAPURIA	SHANKARPUR JHAGRAHI	HETBATHIAR MAHUWADAN GAL

Approved
District Mining Officer
Dumka

DISTRICT MINING OFFICER
DUMKA

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



PALASIA	BANDHA	DANDODUM RIA	PACHRU KHI	TARBAN DA	JHANDARDU MRIA	MAHUATA NR	JARATIKAR KENDUABAH TAR
BELKUPI	MEGHUA	KHEJURIA	DHANAD TH	SIRSA	SAPDAHAR	DUDDHANI	JARUPRA
BAHTTA	GHANSHAM PUR	DUDDHANI	CHACHN E	PHARAH RA	GUNDLIDAGA L	DUNDDIA	JARUPRA
AGUATA	PULJHARI	RANGA	HETH RENGNI	ARAZI LAGIA	NAVADH	BAHINGA	SEJAKURA
KITAKAR HIA	TAPSI	KURUNTAN R	UPAR RENGNI	KUTLATH AR	GAJANDA A	KATAHAR A	
BAGJHOP A	KAMU DUMARIA	SEWARDUM A	ASANJOR	BARA	LILATARI	GARGARI A	
KARAHIA	BABUKEDAI LI	TARI	PALASI	PATSAR A	KOLUA	NOKHTIA	

SHIKARIPARA

SYAMPUR	SARAIPANI	BELBUNI	KAURIGARH	GAMARPAHARI	SIRUDIHIA URF SIRURAVDIH
KEND PAHARI	GANDHARABPUR	KURUNDA	LATAKANDAR	KADAR POKHAR	CHHATUPARA
SIMALTI	PANCHBAHINI	MALUTI	DIMADANA	JIAPANI	CHANDANAGARIA
GUJISMAL	BHUKTANDIH	BHANGABANDH	JAMBROPANI	LUTTAPAHAR	KRISHNAPUR
BHILAIIPANI	AMBAJORA	BANKIJOR	SARASDANGA	LITIPAHAR	SARAIBINDA BINDAKSOL
KATHAJOR	JAMBAD	SALBANI	NIJHOR	AMRAKUNDA	BANSKANDARI
LANGOPAHARI	KHARUKADMA	BANDURGATALA	MAKRABAHARI	PHULSAHARI	DHARAMPUR
KADDADH	RANGA	SIVALPAHARI	PAKDAHA	TELENGAPARA	CHHOTA CHAPIRIA
KALAPANI	SIRTALA	KENDRPATHAR	HULASDANGA	NARAINPUR	RAMGARH
PAHARUDI	MANIKADI	PARTABPUR	SAHARBERA	SARSAJOL	SAHARPUR
CHAKLATA	DIGALPAHARI	MURGATALA	RANAIPAHARI	KHARIPAHAR	AMRADUBA
PATABARI	DHAKA	SANKARPUR	HARINSINHA	BADALPARA	KARMACHUA
INDRABANI	DUAR PAHARI	LALTA KUNRI	MAHULBANA	BANSPAHARI	HATPARA
MURLIJAHARI	SIRSA	CHANDIPUR	CHIRUDIH	JHIKARA	KHEJURIA
MURAAM	KESRAGARH	DAMRITALA	LANGALBHANGA	TALPAMAR	POTHRAKATA
PAKURDI	POKHARIA	KALIPATHAR	PATPAHARI	GUMROPANAR	NAUPANAR
JHURKO	DHOPAHAR	PATTHARGHARA	DAIDALI	KALYANPUR	JHILLDABAR
SIDHADANGAL	PATRANGA	DHANGHARA	SIMANIJOR	KHARJOL	SONADHAP
SONAHARA	CHANDPUR	HATHBARI	MAJHLADIH	KARAKATA	LATBEDA
GAMRA	DUMARIA	THAKARANTALA	POKHARIA	PARRIDANGAL	KALAIBARI
CHUKAPANI	LAKHJOL	BARAMASIA	DHOLKATA	MASTARA	AMRAPARA
SITASAL	KADANTIGARIA	ASANBANI	PAHAR AMCHUA	BAKIJOR	SUDUNGA
LERUAKEND	KUNCHIBANA	CHIRADPATHAR	LABAPARA	ASNA	GHALIAPAHAR
PALMA	DHIRNAGAR	AMCHUA	SALBONAPAHAR	INDRAPUR	BARGHATA
GORADANGAL	PATRANGA	BENAGARIA	GHTTKANDAR	BHAGWANPUR	KALABADAR
DHANUADIH	GHTAKPUR	HANSAPATHAR	ASTA KANDAR	PALASI	SUNDARPALAN
BEHARAKURI	SIJUA	TARACHUA	GOLDAHA	RAJBANDH	BARAJPUR
DARBARPUR	LARIPAHARI	HAKIMPUR	MAJHANPARA	JOGI KHOPA	KUSBANA
GANDARAKPUR	DHAWADANGAL	SAHARPUR	RAMJAM	BARAMASIA	SIMLA
JABARDAHA	KALAGACHHI	PORABANSRI	KULKULIDONGA	RASNALA	LAKHANPUR
SIKARIPARA	BELBUNI UPAR	HARIPUR	GOSAINPAHARI	RAJPARA	DUDHANI
GOPALPUR	KHUSHALPUR	KAUAMAHAL	SITULBANA	SUGNIBHASA	MAJHLADIH
GANESPUR	PHULPAHARI	CHITRAGARIA	DAIDALI	PARBATPUR	DHEBADI
JAMUGARIA	BUCHAM	PIRARGARIA	KATPAHARI	PURPAHAR	RAGHUNATHPUR

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**DISTRICT MINING OFFICER,
DUMKA**



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

CHAIPANI	GOPALPUR	GHAAT HARIPUR	BANJHA KEND	MATIAJURI	BISHANPUR
BABUPARA	BHALKI	KURUMTANR	DHOBAGHATI	SITASAL	SAHARJURI
JAGTIPUR	DUDHICHA	KENDRAHARI	HIRAPUR	SALAIPAHAR	KARMATANR
HALDIPAHARI	KUSPAHARI	HARIPUR	JAMBAD	BEHRAPAHARI	MAHULPAHARI
DUDHAJOL	DURGAPUR	DUDHI KANDAR	SIDHACHATAR	RAJUPARA	RAMBANI
PATSIMAL	DHANBAD	JHUNKI	LAKHNASARA	JADUPARA	RAMPUR
PARTAPPUR	BALJOR	KALLADAH	MURGABANI	MANIACHUA	BHALPAHARI
AMARPANI	SARADAHA	RAKHABANI	KALICHUA	GOLPAHAR	BARMESIA
DEDAHA	TELBULA	BHELATANR	SATPAKARIA	KUSUMGHATI	MOHANPUR
BARA CHAPIRIA					

RANISHWAR

EKTALA	BUKNIDU	KADMA	SEMOLSO	LAKRAGHA	BELBUNI	MURJORA	NANGALBHAN
BAIDYANAT	THOPAA	HATKAD	LATABANI	MURGABA	NAVAPARA	SILUA	GA SILAJURI
HPUR	M	MA	PATHARA	NI	LI	CHHIT	CHHIT
NARANGI	SIMALJO	DAH	SAGRAMP	KUCHIADA	ARAIPUR	ARA	CHARKAPATH
RAKHARI	BISRIAM	MAHULB	BHAIRAB	OL	CHAKARHA	DANGALP	AR
DIGULL	AGAR	DHANBH	DI	PHAJIPU	IPUR	CHHOTAN	UR
AMJORA	DHAKAJO	ASA	DHODDA	R	KISMATPAL	SA	CHHOTA
KALAIBARI	POKHARI	TLABANI	METALKO	CHAPURIA	BARAJOL	PAHARPU	BEHBUNI
GOBINDDIH	KATHALI	PAKHURI	MAHISHK	SA	GOMAHAL	ARI	SANKARKANDA
GOBINDDPUR	KARIKAD	PARPALS	RAJUDIH	HUSENPU	BANGALIPA	LSA	R
CHAPAPHUL	TALDANG	SALTALA	KULUBAN	TASARKAT	TANGDAHA	KALIPATH	SIHULIBANA
MAHULPUR	SARPAHA	RANGALI	TAKIPUR	A	BUKNIDUB	KANJHAR	BHELAGARH
ALAGPATHA	TARADAH	PAKURIA	PANCH	PHARI	SIMLA	JAYTARA	PAHARI
DUMRA	AMDHARI	JAMGRA	AMJORA	HA	KUMIRDA	PATUSOLA	PAKPAHA
SILAJURI	LEVA	KALAKAT	JAPAHARI	GIRIPUR	LAKSHANP	UR	SIHULIBA
MAKARON	KUARSIL	NABAGRA	NIMBANI	AMPARA	BARAGHAT	A	CHAK
DA	A	M	KHUSIDL	BAGHASOL	HARIPUR	ALPUR	MAHESHBATH
ADEKHA	SULUNGA	PAHARPU	PUR	A	BAGHADAR	CHAULLA	BARABATHAN
LAKRABIND	RESAMA	BISHUNDI	RANGAM	ATTI	NANDNA	R	OR
A	MOHANP	BAGHKHA	SADIPUR	D	PUTKA	JAMJURI	BARARORUA
BAGJOBRA	UR	LA	DHANKH	UNIA	CHHIT	TANTLAI	KUCHIAGARI
HARJORA	MEHDIPU	UNIA	HAL	BHADHI	RANIGRAM	CHAKRAM	OR
BARBGANJ	LUTULLA	LATABANI	R	PARA	CHHOTAKA	MTI	BARADANGAL
CHAKBERLA	BHUSKI	KRITANG	TARNI	CHAKRAM	KITURI	MAHITLGH	CHAKINDRA
BENJAGRAN	DHANGH	AMDIHA	CHAK	BHITRA	JAMJURI	MURGUN	PRASAD
HUSENGAN	KAIRABA	ALUBERA	TARNI	DHADKA	PARIHARP	JAGDISHP	OR
J	NI	ALUBERA	TARNI	DHADKA	UR	UR	CHHIT
NARAYANPU	DIGALPA	PALPISA	DUDHICH	PAHARI	CHUAPANI	CHAKAJALA	BUDHUDDI
R	HARI		UA				



DISTRICT MINING OFFICER,
DUMKA

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



KATADUMA	PARABATH	BANBARI	TIKAPAR	TILAKCH	PAKURTA	MANIKDI	BUDHUDDI
R	AN	GULAMSUL	A	AK	LA	H	
KUMIRKHA	BELBUNI	TI	DUKHLAD	ALIGANJ	JAYTARA	BORA	SADIPUR
CHAPABATH	BILKANDI	AR	KHORIDOM	BHURAB	JAYTARA	KHIRGHA	DANTANKATTHI
AN			HH	ALI	TA	TA	
TONGRA							

KATHIKUND

MURGUA	BARA NARGANJ	KAIRASOL	KADMA	BUTBARIA	DHAWADANGAL
KURCHO	SAHRITOLA	BAJRISOL	BHITRA	GHASIPUR	RANIPAHARI
UPAR PUJADIH	CHARKAPATHAR	BAMERJHANTI	KOLHA	DALDALI	BARA TETULMATH
R	TILATANR	PHITKORIA	JHULMILLI	BATHANPAHARI	KENDPAHARI
DUMRAPAHAR	KASIKUL	BALIOR	KAURIA	SIKARPARA	CHHOTTA TETUMATH
BANJHAM	SUTANABAD	DHANIAPAHARI	CHANDPUR	KHEIARI	JALUADUBA
PUSALDIH	R.F	LEDAPATHAR	MUSABIL	TINROLIA	PANDANPAHARI
KOIHAPAHAR	RAIBANDH	LAKHANPUR	TAKRARPUR	BARAMASIA	CHHOTTA KATHIKUND
MAJURNACH	JHAGRAHI	BARATALI	JANGLA	JORAM	BHAWANRPATTHAR
MAHUAGARI	SALAIPAHARI	MASANLA	BHAGHASOL	CHHOTTA	KANDARPANI
POKHARIA	DALAH	JHIL	MOHANPUR	BHALKI	MURBHAGA
BALIDIH	AMTALA	KADARKARA	ERO	CHICHRO	BARA BHUINBHANGA
SIMRA	UKHRAPAHARI	MAHLADANGAL	KHAIRBANI	HIRODIH	AMGACHHI
BASKIA	BANDUBERA	TALDIH	NAVADIH	BELBANI	POKHARIA
MAHUAPATHAR	TALDIHA	ASANPAHARI	CHANDPANI	SALDANA	MOHANPUR
DHIBARI	MANJHDIIHA	BHANDARO	RANGAMETTA	PELENDANA	BELAIKANDER
BARA	HILL BLOCK	JITPUR	CHANDARPURA	SARSABAD	DOMANPUR
CHAPARIA	JAMNI	PARODIH	NAVADIH	JHIRKA	MANGALPUR
JAMCHUA	CHAUDHARI	BARA CHAPRA	RAMPUR	LAKRA PAHARI	CHHOTTA BHUINBHANGA
NONADANGAL	TALPAHARI	MAKRA CHAPAR	TELLA CHAK	GAMHARPAHARI	CHHOTTA SARWAPANI
KOTALDIH	KATHRATANR	PATHRAKUNDI	AMJHARI	SUGAPAHARI	LAKHANPUR
ASTAJORA	TALPAHARI	PIPPA	KARANPURA	KAIRASAVUL	KODAL CHHOLA
JOGIDUBA	GANDHARAP	SIGHINI	SIBTALA	BHALSUMIA	TELLA CHAK BAZAR
DUMARIA	DUDHIA	PAKARDIH	NAKTI	CHIRUDIH	BARA KATHIKUND
PIPARJORIA	LAKRAPHELA	MAGAHIR	TELGANI	DALDALI	CHHOTTA DHANIA
DUMARIA	BARA	ALUARA	DHAWATANR	BARA BHAKI	BARA DHANIA PAHARI
BASKIA	SARWAPANI	MADHUBAN	DUBAIDIH	BARA	BARA DHANIA PAHARI
HILL BLOCK	KANRRAPAHARI	BAMANDIHA	HARIPUR	PHULJHARI	CHHOTTA PHULJHARI
KULKANT	BURHDANGAL	KARARBITL	KANAIDIH	TESPARTA	BICHNIAPAHARI
NIHOR	GHATGHORA	SANKARA	BARTALA	DHAMNAHI	AMBAJORA
AMGACHHI	ASANBANI	AMBA	KALHAJHOR	KUSTMBA	BAGJHONPA
BALLA	DHANKUTA	HARIJUA	SAHARIORI	MAHULPAHARI	BOKWA
GAMRAH	RATANPUR	PAHARPUR	LAKRAPAHARI	KUMIRKATA	CHHOTTA CHAPARIA
SARWAPANI	MAJHDIIHA				MAJHTILA SARWAPANI
					CHHOTTA NARGANJ



**DISTRICT MINING OFFICER
DUMKA**

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



MASALIA

BIKRAMPUR	BELPAHARI	DALDALI	BUBUDI	SAHARPURA	CHHOTA DUMRIA	GULAMIBATHAN
AMGACHHI	PAHARUDI	SAGBEHARI	JARUADIH	KESARAYDIH	AMBA	JAROAKHILKANALI
BEHARABANK	BHELADI	BRINDABANI	KENDDANGAL	DOMKATA	POKHARIA	MASANJOR
HARIPUR	AMDAHA	KUSUMDIH	RANIGHAGHAR	KATAHARA	PANRRIA	CHHOTA CHANDNA
POKHARIA	PAHARGORA	MALAICHA	NAOASAR	BANKATTI	BANK	LALBAHAR URF LALBEHA
MANIKA CHAK	CHALUITAR	KHAYERBANI	PALASI	GAMARIA	GOLBAZAR	CHHOTA TETARIADANGAL
SUGAPAHARI	KUKURTOPA	DOGHARA	NAVADIH	BARA CHANDNA	DIGUARDIH	PAHARPUR
GANTUADIH	PACHAPANI	PAHARIDIH	PHATEPUR	KALKATTA	GUMRO	DHOBNAHARINBAHAL
PATHRABAD	BANSJORA	KENDUATANR	RAKSADANGAL	JHARGARA	BHUTANI	BADIA CHAK
BURADANGAL	LAKHANPUR	PARDANGAL	KUNJBANA	KUSUMDIH	TUMABEL	CHHOTA CHAPURIA
SAPCHALA	KATHALLA	KOLAGI	BICHKARA	TURORAHARI	SIMLA	BARA CHAPURIA
BANBAD	SITASAL	MAKNI	THARI	MAJHIDI	JAWANBANK	JAMJURI
JAMBAD	SUNDARPUR	BIRAIPUR	GOLBANDHA	BASMATA	GARAPATHAR	BEDIA SAONTALI
GUNDALIA	SAGBARI	SINGROGADI	DHANABASA	NAWADIH	GHORMUNDANI	MAHULBANA
MAHULBANA	SUPADI	AMGACHHI	DUNDIA	BIHAJORI	NAUJORA	KHAYERBANIBAZAR
PATRIA	DHARAMPUR	SANUADIH	DHUNABASA	JARGARI	BATTUBATHAN	BHANGAHR
PICHHLI	CHAPURIA	PUTULOR	HATHIAPATHAR	HATBARI	KAPISO	MAHESAPATHAR
CHUADANA	RAJMAHAL	KUMIRDAHA	BARAMASALI	KALIDI	BARAMASIA	DHOKARJHARA
KALIPATHAR	MEHEDIIPUR	PIPPA	AUMERI	KUNJBANA	BICHKORIA	CHARKAPATHAR
LATABAR	DUMRIA	DUMRIA	SIBAKOL	AGUA	BARATANR	BHALUKSUNDIA
GOASOL	MAKRAMPUR	GAMRA	NAVADI	DUDHICHUA	ANDHARDI	RANGABANDH
BELIHR	BAGHMARA	NAWADIH	BAGHRAYDIH	RANGATANR	ASTAJORA	PURATANTESARIA
KOLHARIA	MADHUBAN	BAJARMARA	THEKAHA	PATANPUR	GHASIMARNI	BHELADANA
BHANGAHR	RAJPARA	JAJLIKATTA	NAMIMAHAL	DHAWADANGAL	JOGDIH	MAHATODIH
BARLABAD	KARMATANR	KOLHARIA	TALDANGAL	KHUTOJORI	BHOKTADIH	CHHOTA KUNJBANA
LAKSHIBAD	UPARBANDHA	BASKUTTA	JHUJUKO	TETARIDANGAL	KARMATANR	CHHOTA KARMATANR
KARMATANR	GOBINDPUR	DUKHLADI	PALASI	BARA DUMRIA	KURUA	MUKHTANR
SIKARPUR	AMTORIA	ASTAJORA	LAHARJURIA	PINDARI	SINGTUTTA	AMGACHHI PAHAR
RAMKHARI	BANKATA	DUDHANI	GOLPUR	SITLACHAK	SITA KAHABAR	NUTTANTESARIA MANOHARCHAK (PALGHARA)
ROHARA	BEDIA	HUNJA	BETHIABANK	PAHARUDI	RANGAMATTA	TURUKTORA
PAHARGORA	UGANPAHARI	RAMPUR	PAHARPUR	CHAKGOLA	SUSANIA	LATABANI
TILBAD	BAGDUMI	BHUL	TURKA	BARAKOL	MAHULLDIH	SAMPUR
JORUADIH	DALATHAL	GARDUARA	GHUSRU	BELIAJOR	BASMATA	CHETARSENI
BELIADIH	AMGACHHI	PAHARPUR	LAPSAPARA	GOLPUR	ASANPANI	ANANDA PAHARI
SIDPAHARI	SIMALDI	DUMDUMI	TALDANGAL	PHULBARIA	PALAN	KENDAGBATA
AGTUIURI	DHAJAGARIA	KULSUNGHATA	SINGARI	DAYIARPUR	KOLHAR	PHULSAHARI
MADHUBAN	BARTALI	SARMUNDI	BHALKA	RANGMALA	KUMGARA	PHULSAHARI
KALIPATHAR	BELGANJIA	KUSBEDIA	GIDHIPAHARI	GORMALA	DIMTUDI	KEWADHAP
NIPPIA	BHADUDI	JHULLUA	DHIRUBERA	BARMASIA	KALABAGAH	SUNDARMOHAN
KUMARDIHI	BURIKURYA	MASALIA	BAKSIDIH	MURGATHAL	HEMPUR	KHARNA
CHANDNA	KATA DUMAR	MANIPUR	CHANDADIH	MOHANPUR	KOLARKANDA	RABIAKATA
BICHKORA	PIPPA	HARORAYDIH	NAVAPARA	DEUCHA	KAMARSALI	HIRALJURI
KULLNGDIH	RANGA	DHABNA	SIKDARDANGAL	ISMALA	CHANDRAPURA	MAYSAMUGAR
DAHARLANGI	NIJHOR	MANRAYDIH	NAGRAYPATTHAR	SADIPUR	RANGAMATTA	BASMATA CHITT
BHORABALI	AMRATHAL	KHELARI	LAKHIADI	HETHIAPATHAR	KARIBANDH	
AGOIBANDH	SIDPAHARI	ASANSOL				



**DISTRICT MINING OFFICER,
DUMKA**

2081
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**District Survey Report for Minor Minerals other than Sand
Mining or River-bed Mining for Dumka District, Jharkhand.**



JARMUNDI											
DHOBILATI KAR	HETH BARA	CHARKAPATH AR	KHILKANA LI	LOHARTI RUPSAGA R	PIPPA DANGAL	GODIMBA KHAPCHU A	KURWA				
KENDWATTI KAR	NONIHAT BHAIKI CHHIT	KAIRO	PALASIA	BELDAHANA RANITUJA N	KHORIBAR	KHAJURM A	DUBA				
CHORKHE DA	BHAIKI CHHIT	MATKARA	THARI	MOHANP UR	DAILDALI	THARHIPA THAR	NAVA BAHIVAR KURWA				
KUSMAHA CHHIT	SULTANTI KAR	MAHULAKIT A	BEDIA	RANGABA NDH	BASJORA	THARHIPA THAR	NAVA BAHARKU NDA				
DUMARIA KHERWA CHHIT	CHANDAR DIP	THORA	KHEJURIA GHORMAR A	CHANDNA UR	CHANDNA DAULATPU R	BASDIHA BHAGWAN PUR	BAHARKU NDA				
BAJANDIH	LAGWA	ASWARI	NAVYAMAS RA	RANGABA NDH	CHANDNA DAULATPU R	BASDIHA BHAGWAN PUR	KURUMTA NR				
BAJANDIH	BHAIKI BAIRBAN	BAGHMARA	DHAMNI	NAVYAMAS RA	KUSUMDIIH	DUMRIYA KHURD	CHARGHA RA				
BELIYABAN DH	SHAMPU R	KHULTAHRI	KANHAIVA PUR	DHAWAT ANAR	DONDIA	MANODIH	JHAGRAHI				
BELIYABAN DH	SHAMPU R	PARSATARI	PACHORDI H	KURUMT ANR	BADHIADI	HIRAKANA RI	JANGALPU R				
KURUMTA NR	RAMPUR	PURANA PHATKA	BAGULLI	MANIARP UR	CHHOTTA JOBANGA LIPUR	PIRRATNA	KAIRBANK				
BAJE	MAHUA	SEMRA	DHARAMP UR	KHERHAT IKAR	NAWADIIH	KAPARJOR A	NAWADIIH				
DOMNADI H	SADHUDI H	NAVA PHATKA	KESARIAKI TA	TETARDI HA	KHAWASP UR URF MUSWACH AK	KAPARJOR A	NAWADIIH				
KUSMAHA	KANKATT A	DHAWATANR	CHARGHAR A	URMARA	RAMPUR	BASMATTI KAR	GAMHARIA				
DHAKA	MOTHA KANKATT	KURMAKITA TARNI	SUGPANA RI	BAHIRIB HITRI	KASIJORA	TETTYADIIH	SARAI BANSBERW A				
MAJHDIIH A	KANKATT A	SUGNIBAD	BISHUNPU R	BASBERW A	TLAKPUR	PHULJORI	BITHKA				
BARGO	MOTHA KARAMA KITA	MADHUPUR	JARAKURW A	AWRATIK AR	KALIPUR	JAMNIKOL	BITHKA				
POKHARIY A	KITA TARNI CHHIT	DUMARTHAR CHANDANPU RA	KOLHAKUN D	SARAIYAT IKAR	MOHANPU R	PURANA DUMRIA	RANGABAN DH				
TARGACHA	BELTKRI	RA	JHUNJHI	SIMRA	RAJAN	BASPURIY A	KATARIYA				
BHANAGAR IYA	KORDIHA	KHARAGDIHA	JHULUA	MARIKAD IH	GARDA AMARKUN DA	MALAIPUR A	HETH TINGHARA				
NISUNDRI A	BAIGANT HARA	BHALSUMIA	PAHARPUR	BAGECHA ROHANPU R	SIGHNI BHABEHR I	LOGAN MAJHLIAD IH	UPER TINGHARA				
KHAIRABA NDH	KUNDBAN A	JHAKHIA	BAIRBANA	BANDHIA DIH	KALA DUMARIYA	SAKRI BASBERW A	KURWA SANKARPU R				
BARGO	PATSAR	DHEKEHAGH ONGHA	BAGHIYA KUSUMDIIH	BANDHIA DIH	KALA DUMARIYA	SAKRI BASBERW A	KURWA SANKARPU R				
KURMAKIT A	THENGID IH	BALATHAR	PARIPA	GAJIPUR DHA	BAGJHOPA	A AMBAGHA GH	BOKLA				
KURUADAB AR	DARBE	GHARTOPI	BURHADAN GAL	UPARBAN DHA	JITJORI	AMBAGHA GH	SIKTIYA SIKANDAR A				
KARHARIY A	SUGASAR	KAIRAORI	KHETORIB AHIAR	RAVKANA LI	GOPALPUR	RAJADIIH	SIKANDAR A				
AMGACHHI UPAR	MAHUBA NA	KHARBILA	JARMUNDI CHHIT	MACHKO L	BAJUNATH PUR	GADI KAMARDI HA	MITHMAR A				
KATAUJHA	SANKARP UR	SIMRA	JARMUNDI CHHIT	DOMOHA NI	SITALPUR	RAMPUR	NAKTI				
HETH KATAUJHA	KAKANIA	BANWARA	BASMATA	SIRAMPU R	MOHANPU R	TUTDIIH	TINGHARA				
MADHUBA N	DUMARIA	NAWADIIH	KHERWA A	SARKAND A	MOHESLIT I	PAHARIDI H	NAWANIPA THAR				
PAREWAPA THAR	BADRAMP UR	BAMANDIIH A	JARMUNDI CHHIT	SATHIARI	NAWADIIH	PAHARPU R	KARMA				



**DISTRICT MINING OFFICER,
DUMKA**

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



GAJHANDA	KATIMBA	JARKA	RATANPU	BELDHI	BELBARA	GHORMA	PATWAI
TARGACH	THARI	BARA	GOSA	BHANGDIDH	KURUMTA	RA	UDALPAHA
HA			KANIGAR	PETJAM	RAGHUADI	DHANDIDH	RI
MOTHA	JAI PUR	LATTA	IA		H	KALIPUR	PATRI
BANDHDIDH	KALHOR	CHAMARAB	LACHHMI	AMRI	AMBA	BICHHU	BURHIKUR
	PINDART	AHJAR	PUR			BAHIYAR	WA
UPAR	RAJA	SEMARIA	PATRI	KUMARSA	BIRNA	LAKHNA	DUMGI
BARA	SEMARIA	PATRI	L		PAHARIDH	BALWA	KHUIURIA
NARGANJ	TETARIA	TI LAUNA	BARA	KURWABIRNA	BASBUTTA	LAKRAPA	DHAWATA
SIBGANJ	HATHDU	PARARIYA	BARARI	JAMUNIBAND	SARANGPA	HARI	DHAWATA
OLA	BA	NAWADIDH	TINGHAR	H	NI	NAWAHDI	NR
NORLA	JHAJHA	LODHRA	A	SAHRA	BANDHIAD	H	LORIGHAG
				PATHRIMANE	IH	PUTLIDAB	HAR
JOKA	JHAGRAN	AGOYA	THORI	SHILTI	BHALUA	AR	KAIROKHA
PAHARIDI	I	DAMUSING	BELA	KUNDWE	KUSMANA	DUMARIA	TISAR
H	LADAR	HA CHHIT					SATPAHAR
AMBAPAG	LADAR						I
HAR	LADAR						
PARARIAT	CHHIT	BIRAJPUR	MATHUR	KUSMANA	HATHNANAW	CHORDH	SANPDANA
ANR	BHALUW		A	CHIKANIYA	A	A	R
		SHUNNAGAR	BILTUKRI	BHAGWANPU			
MACHALA	NAWADI		DUBA	R	KHERBANI	KUSBAD	THARWARI
	H	SARAIYA	BASMATA	JARKA	GIDHNI	PATNUKA	PARIGHAD
TAJHARI	GHARTOP	BARMASA	BAGHMA	BAGHIA	NARCHA	TLBERIA	IH
HARHARP	I		RI			UPARBAN	R
UR	GARHITA	GAENDI	BAGHMA	TARABAD	AMARPANI	SOGGRADA	DHAKA
DHANPAT	R		RA			NGAL	
DIH	BAGHOP	DAMUSING	NARAYAN	BAGHMARA	SARMARA	NGAL	SIRAMPUR
	A	HA	PUR				
KARHIA	NAWADI						
BAHIYAR	H	SARAIYA	BASMATA	JARKA	GIDHNI	PATNUKA	PARIGHAD
GILKARHI	DOMAHA	AMRATIKAR	JARDAHA	DUDHANI	BASMATA	PATSARA	HATHGAR
A	NI	BIHAJORI	NAWADI	BIRAJPUR	HARINMAR	MEGHA	BARA
KATHARAT	NI		H		A	TARATKA	
ANR	AMBA	DAMUSING	JAMUA	CHADNA	MAHRA	R	PAIJOJRI
	BIRAJPU	HA CHHIT					R
KUSMAHA	R	RAGHUWA	KAIRO	HIRNABARA	GARIA	TETARIA	JHANAPU
	MAHGA	CHAK	BIRAJPU	DUMARIYA	TETARIADA	BHORASA	R
BUNBUNI	ON	KUSUMKAN	R		NGAL	RAE	BARMASIA
		ALI	BIRAJPU				BASUKINA
PANDEDIH	LUSTAN	DHAWATAN	R	DUMARIYA	NGAL	RAE	BASUKINA
	R						TH
PAHARIDI	R	DUMRIYA	KATELI	MADHUBAN	PINDRALET	KESRI	SITIKBAN
H		HAT	LAKHIBA	CHORDIHA	KADALI	A	JARUADIDH
TLWAMAR	KENDKH	GANUTAN	D	CHANDANPA	BANDARPH	KURWA	MANDALDI
NI	APRA	R	NARAINP	HARI	ASA	H	H
JHILUWA	THANPUR	DAMGARHA	DAMUSIN	SEMARIA	BARMASIY	RAYPUR	DHABANC
MARNI	PAHARIDI	JAMABAHIA	GH	AMBADANGA	A	NAWASAR	HIPA
BISWAMA	H	R	LA	I	KATAHARA	DHORWA	RANGAMA
NI	BANDARJ	DAVALATPU	I	LABDA	ASANSOL	RI	TTA
DUMARDI	ORI	R	THARIP	NUNAMATI	SUNDARM	ARI	BHORABAD
HA	CHORMU	DHURWA	THAR	NO. 1	OR	BANGSOH	BIKLADIDH
DUMRIJAKA	RI		THAR	NO. 2	BAGHMAR	DAIDALI	DONDIA
LAN	KUSMAH	SINGHNI	JOGDHAR	NO. 2	A		
BAMTUNPA	A						
HARI		CHAMRABA	AL	HARLADANG	PAHARIDH	KUSMA	AGOIA
JAMA	SIMRA	HAR	SINGHNI	AL			DHAWATA
	BARATAN	MAHESHKH	BISUNPU	BAZAR	SAMLAPUR	BIHAJORI	NR
KUNDA	R	ANDA	R			JAMIDHAR	KENDUATA
KHAPCHU	NAWADI			MOHANPUR	JARTAL	A	NR
A	H	BANKATI	DUMARIA	HARIPUR	BARADDUB	AMBA	RAEBANDH
KOLHARIA	BHALSUM	PARANAKES	BHORAN	HARIPUR	A	JARUADI	BURWADA
LATAPAKA	IA	RI	DIH		CHIHUTIA	H	NGAL
R	MACHHT	JARKA	CHANDU	DHOBARNA			



**DISTRICT MINING OFFICER,
DUMKA, Jharkhand**

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



RAMGARH									
	JORDIH	PACHUA	DUPPAHA	DHAKOD	KAKAN	SILTTHA	ALUWAR		
	A	TIKAR	RI	IH	PATHORIA		A		
GOSAINKITA	KURWA	JARUAD	KURAMBA	BASKIA	KHAIRBANI	ORTARA	LAUDIHA		
RANIDIH	MAJUR	IH	BANSDDUMA	DUNDIA	KHAIRBANI	AURATIKAR	BISHUNP		
LAKHANPUR	NACH	AMPARA	HETH	JHUJHI	SANKARPUR	PARMA	MAJHIDI		
RAMPUR	JOGIA	BHUSKI	BARACHAP	A	DHOLKATTA	PAGHAR	HA		
PIPPRA	DHAWA	DOTA	UPAR	SUSANIA	MANRRO	KAPATI	SEJAPAH		
KARUDIH	RAMGA	PUNNSIA	UPAR	MAJHIDI			ARI		
	RH		BARACHAP	HA					
DELIPATHAR	LOHAR	SAHARP	SAPDAHAR	BHORAN	BARA RANBAHAR	KENDUA	DUMARJ		
	DIH	UR		DJHA	KUSUMDIH	HIT	OR		
POKHARIA	KUSMH	DANRO	SILTTHA	PINRAR	BARA RANBAHAR	KENDUA	KURUWA		
	A			GARIA		KANALI	KITA		
JAGATPUR	RUNDAL	MAHUA	KOBRIAM	DHOLPA	NAVYATIKAR	SARSA	MOCHIK		
		PATTHAR	BARA	THAR		PURABPATT	HAMHAR		
NAWADIH	JAMUA	RANGA	SIMALPAH	KUSUMA	DHOLKATTA	PACHHIMP	SUHODU		
		MATTA	ARI	HA		ATTI	HO		
GARRAPANA	KURMA	BURHA	CHHOTA	PATARP	DHOBANI	TURSI	TTBANDH		
RI	DHANO	NIA	SIMALPAH	AHARI		MOHANPU	A		
KUSDIHA	R	KENDU	ARI	BAGHM	SARMURIA	R	BAGBIND		
	AR	A	PINDARI	ARA		GOBINDPU	HA		
DAMUDI	JANKIG	KUIA	KOLACHAK	GARDIH	CHHOTA	R	GAMHAR		
	ARIA	PATTHAR		CHANDP	RANBAHAR	R	IA		
KUSBEDIA	DHOBA	RAJAMA	DAHJOR	UR	PANRUA	PAHARPUR	GORDA		
		R	MILANPAH	MA	PHULJORA	SATRALA	TLATAN		
RAIDIH	SARMI	PARDAN	ARI	SABEDU			R		
BASDIHA	JAWARI	PARASB	PARARIA	KAGMAR	MARGAWAN	TALJHARNI	PATHARI		
PURABTOLA		AD		A			A		
BASDIHA	SONABA	KUSBAN	KUNDA	SARWAP	THARANI	BALIA	TLAUND		
PACHHIMTO	D	A		ANI			HA		
JARI	MOHAR	MAHAD	BARA	SARAIPA	GANGWARA WITTH	MAHESHPU	PUNNSIA		
	IA	EVASOL	GORRO	NI	GANGWARA ARZI	R			
DALGI	KENDK		ACCLABAH	KATHAL	KANTUKITA	PUREYAKT			
PAHARI	HAPAR	KUPE	AL	DIH		A			
PATOBANDH	A								
	RAJABA	JIRAULI	PORAIPANI	KHARA	JABLABIAKITA	SEMRA	PANDARI		
	NDH	A		BANI			MADHUB		
KURUMTANR	SARAU	MATHT	NAWADIH	KOAM	GAMHARIA	KAUAKITA	PATSAR		
HATHIA	A	OIA							
PAHARI	BUTBAR	SARAEP	BARATANR	JAPANI	BHATTIN	CHITBESRA	DELI		
PANREDIH	I	ANI					PATHAR		
POREADANG	BHATU	MANBA	CHHOTA	BANSDU	SILPAHAR	KANJ	DUMARI		
AL	RIA	RI	GORRO	MA			A		
LATTA	NAKRAP	HETH	SUNDRIDO	BICHGA	KHUTAHAN	ROLDIH	BHALSU		
	AHARI	N	L	RH			MAR		
JHANJHAR	GOBIND	BALIA	DUDDHUMA	DAHICH	BHAGABANDH	PATGORA	KABILAS		
	PUR	KHARA	KARBINDH	UA	KHUDDIMIRKHI	BANSBARW	PUR		
KHAIRASOL	LABART	BAKUA	A	KASTIAD		A	LILATARI		
	I			UMA					
ANGUTTHA	SEMAR	BHELAI	KASACHAP	AMBASO	JAMBARI	MAHUADA	BOKNA		
AMRAPAHAR	DUMA		AR	L		NGAL			
	BABUPU			KAKANI					
	R								



**DISTRICT MINING OFFICER,
DUMKA**

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



SARAIYAHAT									
CHEHARBH ENK	GOBINDP UR	DHAWATA NR	KHAMA	AZARI BELODHI	SAGAR CHAKKA	CHATRA	AITHURAYDIH		
BENIA	SANGRA MPUR TONGI	BARMASIA	BAGDAHA	LALPUR PURNA LOHMAR WA	KTTA JAMUA	BAITHA	BANGALIDIH		
KHUTTANAR I	KENDUA	CHIKANIYA	KURMA	NAYA LOHMAR WA	BHALUA	RISIBED	DHOBARNI		
AMAJORA	BABUPUR	AMGHATA	TETARIA MADHUBA N	BHALUA LOHMAR WA	RANGA ASNA	SADHUPUR			
GHAGHRA	PATHARA	JYAJOR	BANDRA	BHARLATA NR	POKHARIYA A	JHAPANIYA			
AMAJORA	BARDAHI	PATSAR	RAJDAH	BAIGNI MARI	KAKNI	GANGTA			
SUNDRI	NAWADI H	PAHARIDI H	RAJDAH	BAIGNI MARI	MALGHA GHAR	GARBHER	DUMARIYA		
NIKTI DUMRIA	AMJORA	KUSUSMDI H	SALJORABA NDRI	MATTA	CHORAJOR	MURIYAR	KOLHARIYA		
MALDA	BARMASI A	MADHUDI NDA	KOLHARIA	ARAZI KACHUA	KOLHOR	NAWADH	RAKSA		
BAMHNICH AURA	DHOBAM A	LILBARA N	KANKATA	BANDARD HASA	GOARI THANDAR	KHIRDHA NA	RAUNDHIA		
KASAUUNDH A	JAGATPU R	LODHRA	MAKUNDA	PCHHRI	I	NIPANIYA BHURKUR	KARUDIH		
KAMARDIH A	NAWADI H	HARDIYA	KARIKADI	DAHUA	DHAUNI	IYA	JOKEIA		
SIYAKHOR	SAPHA	DUMARTH AR	GADI JHOPA PARARIYA	ARAZI SUGI	MATTHAR A	JAMUA	JABUOR		
PORAIYAKI TA	SARMARA	SOBHA BARAR	AURABARI KARAMPUR A	KACHUA RASUNIYA	SITAPUR BELIDHA B	JHABARI PATNUKI	GHAGHARI NAYA DHOIGARIA		
HARAWA	BIMIYA DHOLPA HARI	PURANA PHITKARIY A	BHALSUM	SADALPUR	MOKHAP UR	KANAUJA	SINGHNTA		
NONIYA	CHANDA RA	BELODHI (RAGURAI HAK)	CHAMPATA RI	KORDANA DHOIPAH AR	BARKUND I	BAGHAUT A	POKHARIYA PURANA DHOIGARIA		
MARDAURA	CHICHEH RA	MODIVADI H	BINDUA	KURUMTA NR	BARMANI YA	KANAUJI ASIKHAN DDHA	AMBARAGHAR		
AMGACHHI	TARGACH HA	BELODHI	NAWADIH	KURUMTA NR	KALIPUR	ASIKHAN DDHA	AMBARAGHAR		
KURWA	GIDHAPA HAR	ARAZI BELODHI	NAWADIH	KURUMTA NR	KALIPUR	ASIKHAN DDHA	AMBARAGHAR		
PINDRA	MATTHAN I	DAHRA	CHANNHET	SUGI KURUMTA NR	NAUDIHA	BHOJA MATHAKE SHO	PARPANRA		
DHADKIYA	TIKAPU R	GAJIPUR	PAHARIDIH	TARAUN TINGHAR A	KURMA SUMERIP ATT	PANRE KESO	JHILWABHA TBANRI		
KADIYA	JAMUA SURADAB AR	DOMSI	BISANPUR	DIGHI	CHICHAN ARA	JAMUA SARAIYAH AT	DUMARIYA CHARKAPATH AR		
MOHARJAK ITA	NAUDIHA	SONABAD	BHUTATAR I	DONDIYA	MANIKPUR R	SARAIYAH AT	CHARKAPATH AR		
EGSINGHA RASAKOSA CHHIT	POREJOR KORDIHA	RAMTARIK ITA	KHAIRBANI	CHIHUTA BASHERW A URF DHOVA	HETH CHAKWA	SARAIYA	TARGACHHA		
HAJRAM	MAHURA	RAMTARI	TELDIHA	MAHESH KHANDA URF PINDRADH AB	MAHESHJ ORA	KAMAT PATHARA	PADUADIH		
NAUDIHA CHHIT	BARA	DORIA	RAJ/ABAD	MADHUB AN	TITMO	DHAWATANR			



210
DISTRICT MINING OFFICER
DUMKA

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



GHOGHA	ASWARI	SEMARIYA	BHAGWANPUR	LORHIKUNDA	BAJLA	HANSDIHA	KOLHARIYA
KANJOR	BHAJRAKOL	JAINAGRA	MAHESKHANDAURP PINDRADHAB	CHUNA KOTHI	TURKDI HA	BARIDIH	PATHAR IVA
BAGARIYA URF CHANDUBAT HAN	THIRI KHAIRWA	RASAKOS A	NAWADIH	BARHAIT	JAMUA SARWA CHHIT	PARSA	KAKANI A
BHELWADAN GAL	BHORANDIA	PANCHTIK RI	KUNJI LAKRATAN	PACHAITA	KHOJWA PANCHU BAD	BHALUA	BIRNA CHAINP UR
BHANGABAN DH	BHALUA	BHAGAN	R	RANGA	KHOJWA PANCHU BAD	KASBA	JAMUNI A
BARAMASIA	BIRNIA	CHHATNA RANKUDI H	JAJOR KUMARCHA K	POKHARIA	CHILRA	TATARIA	JAMUNI A
TAMRA	JAMJORI	RANKUDI H	JAJOR KUMARCHA K	BELWARA	CHILRA	CHORBATTA	DONDIYA A
UPARCHAKW A	SEMRA GHAGHARBA RI	JAMUNKI TA	JARAHARIA	KURAHARI YA	TETARIA	DHANIPARAH ARI	BARJUR AI KURAW A
BISHUNPUR CHHIT	LAKARBANK	AMBA	JAIPUR	JALBE	MOHLA	BAMANIKHE TA	PUNRRA
BIRAJPUR	BAHERADIH	KURMA	HARIPUR	PARKHETA	SARWA	KHURWA	SALAIYA
DHANWE	CHATRAM HIT	NAWATIK AR	DHANKUTTA A	PAGWARA PURABPAT TI	MANDAL DIH	MAHADEVA GARH	PARASD AH
HATHGARHC HHIT	BISHUNPURC HHIT	KADRUVA	SARSA THARHI	HATHGAR H	BANHATTI	SINGHNI	TETARI A
SAGRAMA	BIRAJPURCH HIT	NAWATIK AR	KURMAPAH AR	PAGWARA PACHHIMP ATTI	GORADI H	GOTHABARA N	BACHM ARI
BISHUNPUR	KOTHA PAKAR	RAMPUR	DHAWATAN R	MAHTODI H	GORADI H	BARLARA	BARHH FT
KUSIARI	BELTIKRI	DILARA	PATHARIA DHAMNAK UNDA	KHERBARI SIRABAN DH	BANARAS	BHORUA	BHATTUR IA
SAMHUTA	MAHTOPATTI	JANKI				NAWADIH	CHUTTIA BABHAN
AMDIHA						PIPPA	



**DISTRICT MINING OFFICER,
DUMKA**

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



15 QUALITY/GRADE OF MINERAL AVAILABLE IN THE DISTRICT

▪ **GRANITE GNEISS:**

Granite gneiss is a rock consisting of an orthogenesis or paragenesis having the composition of a granite. Gneiss is an old German word meaning bright or sparkling. It is a high grade metamorphic rock, meaning that it has been subjected to higher temperature and pressure than Schist. It is formed by the metamorphosis of Granite or sedimentary rock. Gneiss displays distinct foliation, representing alternating layers composed of different minerals. However, unlike Slate and Schist, Gneiss does not preferentially break along planes of foliation because less than 50% of the minerals formed during the metamorphism are aligned in thin layers. Because of the coarseness of the foliation, the layers are often subparallel, i.e. they do not have a constant thickness.

Mineralogy - The granite gneiss includes several varieties: banded Gneiss, Schistose Granite, porphyroblastic Gneissose Granite and Granodiorite.

Grain size - Medium to coarse grained; can see crystals with the naked eye.

Hardness - Hard.

The Granite Gneiss is full of mafic enclaves at places. The Gneiss is composed of Quartz, Microcline, Plagioclase (An20-An44), Biotite, Hornblende and other accessory minerals but lacks in Muscovite. Felsic minerals such as Feldspar (Orthoclase, Plagioclase) and Quartz generally form the light coloured bands; mafic minerals such as Biotite, Pyroxene (Augite) and Amphibole (Hornblende) generally form the dark coloured bands.

Texture - Foliated, foliation on a scale of cm or more.

Colour - Variable - generally alternating lighter and darker sub-parallel discontinuous bands
Garnet porphyroblasts common.

Occurrence - The Granite Gneiss complex is a composite mass consisting mainly of Granite Gneiss, Migmatites and massive Granite with enclaves of para and orthometamorphics, dykes of Dolerite and innumerable veins of Pegmatite, Apatite and Quartz. Because of repeated folding, high grade regional metamorphism and profuse granitic activities, the elucidation of the stratigraphic succession in the area poses a great problem.

▪ **AMPHIBOLITE:**

Amphibolite is a grouping of rocks composed mainly of Amphibole and Plagioclase Feldspar with little or no Quartz. It is typically dark-colored and heavy, with a weakly foliated or schistose (flaky) structure. The small flakes of black and white in the rock often give it a salt-and-pepper appearance.

Amphibolites need not be derived from metamorphosed mafic rocks. Because metamorphism creates minerals entirely based upon the chemistry of the protolith, certain 'dirty marls' and volcanic sediments may actually metamorphose to an Amphibolite assemblage. Deposits containing Dolomite and Siderite also readily yield Amphibolites (Tremolite-Schists, Grunerite-Schists and others) especially where there has been a certain amount of contact



**DISTRICT MINING OFFICER,
DUMKA**

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



metamorphism by adjacent Granitic masses. Metamorphosed Basalts create ortho-amphibolites and other chemically appropriate lithologies create para-amphibolites. Tremolite, while it is a metamorphic Amphibole, is derived most usually from highly metamorphosed ultramafic rocks, and thus Tremolite-Talc Schists are not generally considered as 'Amphibolites'. A holocrystalline plutonic igneous rock composed primarily of Hornblende Amphibole is called a Hornblendite, which is usually a crystal cumulate rock. Igneous rocks with >90% Amphiboles, which have a Feldspar groundmass, may be a Lamprophyre.

▪ RAJMAHAL TRAP-BASALT (RAJMAHAL FORMATION):

By definition, Basalt is dark-coloured aphanitic (fine-grained) igneous rock with generally 45-53% Silica (SiO₂) and less than 10% Feldspathoid by volume, and where at least 65% of the rock is Feldspar in the form of Plagioclase. This is as per definition of the International Union of Geological Sciences (IUGS) classification scheme. It most commonly forms as an extrusive rock, such as a lava flow, but can also form in small intrusive bodies, such as an igneous dyke or a thin sill.

Mineralogy:

Essential minerals are Augite, Calcic-Plagioclase and Iron oxide. Usually Olivine is also present. Labradorite Feldspar is the chief constituent of the groundmass where as more Calcic-Plagioclase (Bytownite or Anorthite) may occur as phenocrysts.

Geological formation:

The Rajmahal formation exposed in the Rajmahal area is represented by 450 to 550m thick predominantly basaltic lava flows (4-15 individual flows) intercalated with fresh-water sedimentary beds. This formation is well developed in the Rajmahal hills of Jharkhand, Bihar and West Bengal. It is made up of extensive lava flows of basic composition, called the Rajmahal Traps. The Basalts are intercalated with Claystone, Siltstone, some of which are silicified and porcellanoid. The Rajmahal formation can be divided into four units: lower lava flows with intercalated unfossiliferous sedimentary beds from the lowermost unit. The second unit comprises five to six lava flows with four to five sedimentary beds composed of Tuff, Claystone, Siltstone, etc. The fourth unit comprises series of basalt flows with or without sedimentary beds. The radiometric dating of the Rajmahal traps has shown that they are of Albian age.

▪ SANDSTONE, SHALE & CONGLOMERATE:

Sandstone is a clastic sedimentary rock composed mainly of sand-sized (0.0625 to 2 mm) mineral particles or rock fragments. It is clastic in origin (as opposed to either organic, like Chalk and Coal, or chemical, like Gypsum and Jasper). They are formed from cemented grains that may either be fragments of a pre-existing rock or be monomineralic crystals. The cements binding these grains together are typically Calcite, Clays, and Silica. Grain sizes in Sand are defined (in geology) within the range of 0.0625 mm to 2 mm (0.002–0.079 inches). Clays and sediments with smaller grain sizes not visible with the naked eye, including Siltstones and



213
DISTRICT MINING OFFICER,
DUMKA

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



Shales, are typically called argillaceous sediments; rocks with larger grain sizes, including Breccias and Conglomerates, are termed rudaceous sediments.

Mineralogy:

The chemical compounds like Silicon dioxide or Silica, Calcium carbonate, and Iron dioxide act as natural cementing agents to hold together the Sand in the form of a rock that we know by the name of Sandstone. Chemically, Sandstone is an absolutely impervious and mono-mineralic rock that is primarily composed of Quartz.

Shale is a fine-grained, clastic sedimentary rock composed of mud that is a mix of flakes of Clay minerals and tiny fragments (silt-sized particles) of other minerals, especially Quartz and Calcite. Shale is characterized by breaks along thin laminae or parallel layering or bedding less than one centimeter in thickness, called fissility. It is the most common sedimentary rock.

Conglomerate is a coarse-grained clastic sedimentary rock that is composed of a substantial fraction of rounded to sub angular gravel-size clasts, e.g., granules, pebbles, cobbles, and boulders, larger than 2 mm (0.079 in) in diameter. Conglomerates form by the consolidation and lithification of Gravel. Conglomerates typically contain finer grained sediment, e.g., either Sand, Silt, Clay or combination of them, called matrix by geologists, filling their interstices and are often cemented by Calcium carbonate, Iron oxide, Silica, or hardened Clay. The size and composition of the gravel-size fraction of a Conglomerate may or may not vary in composition, sorting, and size. In some Conglomerates, the gravel-size class consist almost entirely of what were Clay clasts at the time of deposition. Conglomerates can be found in sedimentary rock sequences of all ages but probably make up less than 1 percent by weight of all sedimentary rocks. In terms of origin and depositional mechanisms, they are closely related to sandstones and exhibit many of the same types of sedimentary structures, e.g., tabular and trough cross-bedding and graded bedding.

Properties:

The key characteristic of Conglomerate is the presence of readily visible, rounded clasts bound within a matrix. The clasts tend to feel smooth to the touch, although the matrix can be either rough or smooth. The hardness and color of the rock is highly variable.

▪ QUARTZITE AND QUARTZSCHIST:




DISTRICT MINING OFFICER
DUMKA, JHARKHAND

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



Quartzite is a hard, non-foliated metamorphic rock which was originally pure Quartz Sandstone. Sandstone is converted into Quartzite through heating and pressure usually related to tectonic compression within orogenic belts. Pure Quartzite is usually white to grey, though Quartzites often occur in various shades of pink and red due to varying amounts of iron oxide (Fe₂O₃). Other colors, such as yellow, green, blue and orange, are due to other minerals. When Sandstone is cemented to Quartzite, the individual Quartz grains recrystallize along with the former cementing material to form an interlocking mosaic of Quartz crystals. Most or all of the original texture and sedimentary structures of the Sandstone are erased by the metamorphism. The grainy, sandpaper-like surface becomes glassy in appearance. Minor amount of former cementing materials, iron Oxide, Silica, Carbonate and Clay, often migrate during recrystallization and metamorphosis. This causes streaks and lenses to form within the quartzite. Ortho-Quartzite is a very pure Quartz Sandstone composed of usually well-rounded Quartz grains cemented by Silica. Ortho-Quartzite is often 99% SiO₂ with only very minor amounts of Iron oxide and trace resistant minerals such as Zircon, Rutile and Magnetite. Although few fossils are normally present, the original texture and sedimentary structures are preserved. The term is also traditionally used for Quartz-cemented Quartz Arenites, and both usages are found in the literature. The typical distinction between the two (since each is a gradation into the other) is a metamorphic Quartzite is so highly cemented, diagenetically altered, and metamorphosed so that it will fracture and break across grain boundaries, not around them. Quartzite is very resistant to chemical weathering and often forms ridges and resistant hilltops. The nearly pure Silica content of the rock provides little for Soil; therefore, the Quartzite ridges are often bare or covered only with a very thin layer of Soil and (if any) little vegetation.

Quartz Schist is a metamorphosed schistose rock composed essentially of Quartz often with some mica or tourmaline or both. Schist is a medium-grade metamorphic rock. Quartz often occurs in drawn-out grains to such an extent that a particular form called Quartz Schist is produced. Schist forms at a higher temperature and has larger grains than Phyllite.




DISTRICT MINING OFFICER,
DUMKA



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 for 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, harbor 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

Types of Building Stones

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

Granite

It is a deep-seated igneous rock, which is hard, durable and available in various colours. It has a high value of crushing strength and is capable of bearing high weathering.



Granite is used for bridge components, retaining walls, stone columns, road metal, ballast for railways, foundation, stonework and for coarse aggregates in concrete. These Stones can also be cut into slabs and polished to be used as floor slabs and Stone facing slabs.

Basalt Trap



**DISTRICT MINING OFFICER,
DUMKA**

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



They are originated from igneous rocks in the absence of pressure by rapid cooling of the magma.



They have the same uses as Granite. Deccan Trap is a popular Stone of this group in South India.

Sandstone

This Stone is another form of sedimentary rock formed by the action of mechanical sediments. It has a sandy structure which is low in strength and easy to dress.



They are used for ornamental works, paving and as road metal.

Gneiss

It can be recognized by its elongated platy minerals usually mixed with Mica and used in the same way as Granite.



Quartzite

It is a metamorphic rock which is hard, brittle, crystalline and durable.



**DISTRICT MINING OFFICER,
DUMKA**

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



It is difficult to work with and used in the same way as Granite but not recommended for ornamental works as it is brittle.

China Clay (Kaolinite)

Kaolinite, also called China clay, soft white clay that is an essential ingredient in the manufacture of porcelain and refractories and is widely used in the making of paper, rubber, paint, and many other products. Kaolin as found in nature usually contains varying amounts of other minerals such as muscovite, quartz, feldspar, and anatase. When kaolin is mixed with water in the range of 20 to 35 percent, it becomes plastic (i.e., it can be moulded under pressure), and the shape is retained after the pressure is removed. With larger percentages of water, the kaolin forms a slurry, or watery suspension. Kaolin is used extensively in the ceramic industry. where its high fusion temperature and white burning characteristics makes it particularly suitable for the manufacture of whiteware (china), porcelain, and refractories.



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.
- 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.




DISTRICT MINING OFFICER,
218, DUMKA
Jharkhand

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



- Compact Limestone and Sandstones are used for fire-resistant masonry.
- Granite, Quartzite Stones are used in foundations of building in place with high groundwater level.
- Slate, Sandstone and Granite Stones are used for floor pavings.




**DISTRICT MINING OFFICER,
DUMKA**

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



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 Dumka 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 benefiting 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.

Sl. No.	Year	Production (in ft ³)	Dispatch (in ft ³)
1	2021-22	35069845.000	38476893.003
2	2022-23	76837230.500	63406199.898
3	2023-24	86784343.500	93077614.899



**DISTRICT MINING OFFICER,
DUMKA**

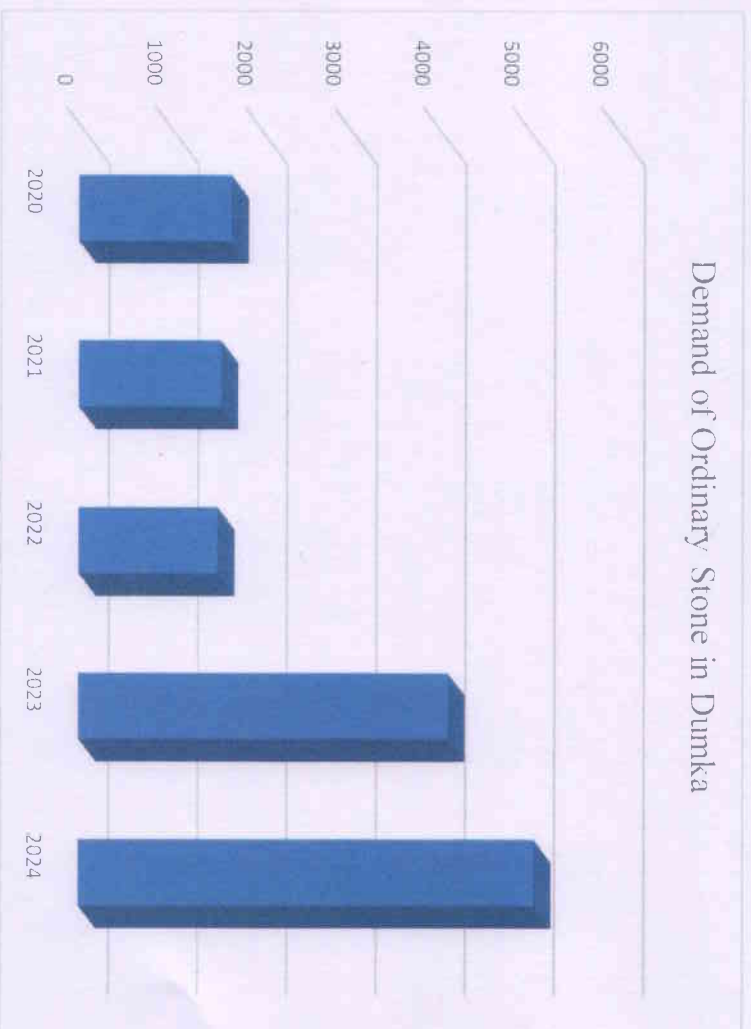
District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Dumka District, Jharkhand.



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 Dumka 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.

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. There are no statistical data, regarding demand and supply of minerals in Dumka district. 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.

Based on the revenue report for last 5 years 2020 to 2024 there is an increase of 198% in demand of ordinary Stone. Bar Graph is given below: -



Low demand of stone in year 2020 and 2022 is due to impact of Covid-19

16 number of coal block already in the process of Allocation/Auction and operation, Due to which mining operation is restricted to non coal block area only, therefore new potential area need to be explored for next five years considering the rational demand projected 6.5% to 7% till March 2025 as per the economic survey 2023-24 report




DISTRICT MINING OFFICER
DUMKA

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



18 MINING LEASES MARKED ON THE MAP OF THE DISTRICT

As per record of Dumka District Mining Office, 57 Stone mining leases are registered out of which only 51 mining leases are in EC granted 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 Dumka district.

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

Sl.No.	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acre)	Address of the Mining Lease	Location of the Mining lease (Latitude & Longitude)
1	Shri Parasnath Heights Pvt. Ltd.	Shri Nirmal Jain, Diwakar Tower, 1st floor, Saithaia, Birbhun, West Bengal	2.11 HA/5.20 acre	MOUZA - DALDALI, P.O. - DALDALI, BLOCK & P.S. - SHIKARIPARA, DISTRICT - DUMKA, STATE - JHARKHAND, PLOT NO. - 2130, 2131(P), 2132(P), 2133, 2134, 2135, 2136, 2137, 2138, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, KHATA NO. - 04, 54, 56, 60	24°6'1.258"N to 24°6'8.259"N 87°34'19.132"E to 87°34'28.460"E
2	Shri Mainul Islam	Shri Mainul Islam, Mahendrapur, birbhun, West Bengal	2.17 ha/5.36 acre	MOUZA - KENDPAHARI, BLOCK & P.S. - SHIKARIPARA, DISTRICT - DUMKA, STATE - JHARKHAND, PLOT NO. - 723, 724, 940, 941, 945, 946, 947, 948, KHATA NO. - 02,03,25,35,43	24°13'12.645"N to 24°13'22.398"N 87°36'53.350"E to 87°36'59.767"E
3	M/s Raksha Kali Stone Works	Shri Shankar Bhagat, Ramnagar, PO. Malpahari, Pakur, Jharkh and	1.66 HA/4.09 acre	Mouza - AHRICHUWAN, Block & P.S. - GOPIKANNDAR, P.O. - KARUDIH, DISTRICT - DUMKA, STATE - JHARKHAND, PLOT NO. - 395, 396, KHATA NO. - 35, 16.	24°20'39.75"N to 24°20'44.91"N 87°32'57.88"E to 87°33'03.40"E




DISTRICT MINING OFFICER,
DUMKA

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



Sl.No.	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acre)	Address of the Mining Lease	Location of the Mining lease (Latitude & Longitude)
4	M/s Shree Shree Stone Works	Islam Miyan(Partner), Saharpur, Post-Bengaria, Thana-Shikari para, Dumka, Jharkhand	2.97 ha/7.34 acre	Khata No.- 17, 45, 30 & 39 Plot No.- 131, 132, 133 & 134 Village-Saharpur, Thana-Shikari para, Thana No. - 12 District-Dumka, State-Jharkhand	24°11'13.00"N to 24°11'06.68"N 87°34'15.17" E TO 87°34'23.34" E
5	M/s Maa Kali Stone	Shri Ajay Kumar Bhagat, Ganpura, PS. Pakuria, pakur, Jharkhand	2.46 HA/6.08 acre	MOUZA & PANCHAYAT- MUSNA, P.O. - DHARAMPUR, P.S. - GOPIKANDAR, DISTRICT- DUMKA, STATE- JHARKHAND. Plot No. - 62(P), 63(P), 64(p), 65(P), 66(P), 67, 68(P), 72, 73, 74(P), 78(P). Khata No. - 32, 24, 03, 34, 11, 35, 20 & 13	24°27'25.72"N to 24°27'18.31"N 87°32'3.93"E to 87°31'57.64"E
6	M/s Raksha Kali Stone Works	Sri Manoj Kumar Bhagat, Sarasdangal, PS. Shikari para, Dumka, Jharkhand	2.955 ha/7.30 acre	MOUZA & PANCHAYAT- MUSNA, P.O. - DHARAMPUR, P.S. - GOPIKANDAR, DISTRICT- DUMKA, STATE- JHARKHAND. Plot No. - 708(P), 711(P), 715(p), 716(P), 717(P), 718(P). Khata No. - 23, 24, 30, 37	24°27'23.59"N to 24°27'16.59"N 87°32'50.92"E to 87°32'43.13"E
7	Sri Upal Kumar Sen	Sri Upal Kumar Sen, Kundit, PO+Thana-Kundit, Jamtara, Jharkhand	2.26 ha/5.59 acre	MOUZA - PINDARGARIA, THANA -GOPIKANDAR, THANA NO. - 49, DISTRICT - DUMKA, JHARKHAND	24°24'58.33"N to 24°25'05.26"N 87°33'04.32"E to 87°33'13.28"E
8	M/s R.S.S Stone Works	Sri Rahul Singh & Partners, Sirsia, po.- Kanki, Thana-Palojori, Deeghar, Jharkhand	1.73 ha/4.28 acre	MOUZA- RAMBANI, BLOCK & P.S. - GOPIKANDAR, P.O. - DHARAMPUR, DISTRICT- DUMKA, STATE- JHARKHAND. PLOT NO. - 135,, KHATA NO. - 10	24°26'44.03"N to 23°26'51.93"N 87°31'47.81" E to 87°31'52.79"E



**DISTRICT MINING OFFICER,
DUMKA**

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



Sl.No.	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Location of the Mining lease (Latitude & Longitude)
9	Shri Arun Kumar Sah	Shri Arun Kumar Sah, Village+Post+P.S.- Shikaripara, District- Dumka	1.61 ha/3.97 acre	MOUZA-PAHARPUR, P.O.-BENAGARIA, P.S.-SHIKARIPARA, DISTRICT- DUMKA, STATE- JHARKHAND., PLOT NO. - 960(P), 961, 962, 963, 964, 965, 966., KHATA NO. - 04, 19, 23	24°11'21.06"N to 24°11'27.02"N 87°35'03.05"E to 87°35'08.30"E
10	M/s S.P. Stone Works	Shri Purushottam Sharan Prashant, at Shrikant road Belagagan, P.S.- Deoghar, Deoghar, Jhark hand	1.97 ha/4.870 acre	MOUZA- RAMBANI, BLOCK & P.S. - GOPIKANDAR, P.O. - DHARAMPUR, DISTRICT- DUMKA, STATE- JHARKHAND. PLOT NO. - 85 (P), KHATA NO. - 27	24°27'01.47"N to 24°27'05.57"N 87°31'51.76"E to 87°32'01.33"E
11	Shri Amardeep	Shri Amardeep, R/O House No. 1002, Sector -14, Sonipat, Haryana	2.43 ha/6.01 acre	Mouza - Shiyalpahari, P.S. - Shikaripara, Dist. - Dumka, State - Jharkhand, Khata No.- 3,4,5,6,7,8,9,... Plot No. - 44 (P), 49 (P), 58, 59, 48 (P), 71 (P), 40 (P), 42 (P), 51 (P), 43, 45 (P), 46 (P), 52 (P), 60 (P), 50 (P)	24°09'59.73"N to 24°10'08.31"N 87°39'00.03"E to 87°39'06.60"E
12	Shri Amardeep	Shri Amardeep, R/O House No. 1002, Sector -14, Sonipat, Haryana	2.38 ha/5.88 acre	Mouza - Shiyalpahari, P.S. - Shikaripara, Dist. - Dumka, State - Jharkhand, Khata No. - 7,6,8,9,4., Plot No. - 38 (P), 42 (P), 51 (P), 52 (P), 148 (P), 48 (P), 52 (P), 50 (P), 49 (P).	24° 09' 55.10" N to 24° 10' 01.66" N 87° 38' 58.86" E to 87° 39' 05.41" E
13	Shri Sunil Kumar Mandal	Shri Sunil Kumar Mandal, Kushpahari, PO-Baramasia, PS- Shikaripara, Dumka, Jharkhand	1.76 ha/4.34 acre	Mouza - Lowapara, P.O. - Benagaria, Block & P.S. - Shikaripara, Dist. - Dumka, State - Jharkhand., Khata No. - 06,09,10., Plot No. - 84,85,155	24°11'50.388"N to 24°11'56.875"N 87°33'29.217"E to 87°33'37.336"E



**DISTRICT MINING OFFICER,
DUMKA**

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



Sl.No.	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Location of the Mining lease (Latitude & Longitude)
14	M/s Varun Singh Sisodia Private Limited	Shri Varun Singh(Managing Director), 12-Kishorhawan , Justice Mandal Path, DAV School East, Rajvanshi Nagar, Patna	1.78 ha/4.39 acre	Mouza – Lakhibad, Block - Gopikandar, P.S. – Gopikandar, Dist. – Dumka, State – Jharkhand,, Khata No.- 2, 15,12 Plot No. - 428 (P), 429 (P), 431 (P), 432 (P), 434	24°27'36.660"N to 24°27'41.844"N 87°32'32.873"E to 87°32'40.535"E
15	Shri Parasnath Industries	Proprietor- Shri Nirmal Jain, At Shriram Apartment, Ranchi Patna Road, PO- Jhumri Tilaiaya, Koderma, Jharkhand	2.34 ha/5.79 acre	MOUZA – SALBONA PAHAR, PANCHAYAT - SAHARPUR, P.O. - BENAGARIA, P.S. - SHIKARIPARA, DISTRICT - DUMKA, STATE - JHARKHAND. PLOT NO. - 243(P), 244(P), 251(P), 253(P), KHATA NO. – 24, 36, 37	24°10'50.42"N to 24°10'44.48"N 87°34'01.93"E to 87°33'51.72"E
16	Shri Santosh Kumar Dan	Shri Santosh Kumar Dan, Kolabari, PO- Rajbandh Palasi,PS Shikaripara, Dumka, Jharkhand	1.20 ha/2.97 acre	Mouza- Paharpur, P.O.- Benagaria, Block+P.S.- Shikaripara, District- Dumka, Jharkhand ,. KHATA NO. 16 , PLOT NO. -698(P)	24°11'36.063" N to 24°11'41.223" N 87°35'7.745" E to 87°35'12.591" E
17	M/s Jai Maa Tara Stone Product	Prop: Shri Binod Prasad Bhagat, Sarasdangal, Dumka, Jharkhand	2.73 ha/6.73 acre	Village- Saharpur, Thana- Shikaripara, Thana No.- 12, District- Dumka, STATE- JHARKHAND, Khata No.- 52 22, Plot No.- 30 21, 24 (P)	24°11'22.8"N to 24°11'12.1"N 87°34'29.8"E to 87°34'24.4"E
18	M/s R.A.N Enterprises	Prop: Sri Amit Kumar, Dumarchir, Pakur, Jharkhand	2.65 ha/6.56 acre	Village – Jitpur, P.O.- Dharampur, P.S. – Gopikandar, District- Dumka State – Jharkhand,, Khata No. 15, 10, 13 , Plot No. 28,27,34,33,67,26,25	24°26'50.01"N to 24°26'57.04"N 87°31'02.08"E to 87°31'07.08"E
19	M/s Lakhinaraya n Stone Works	Shri Manoj Kumar Gupta & Partner, Gopikandar, dumka, Jharkhand	1.53 HA/3.77 acre	Village – Lakhibad, P.O.- Ranga Mission, P.S. – Gopikandar, District - Dumka, State – Jharkhand,, Plot No.- 862 P Khata NO -08	24°27'34.80"N to 24°27'39.38"N 87°32'52.90"E to 24°27'34.80"N



305
DISTRICT MINING OFFICER,
DUMKA

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



Sl.No.	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Location of the Mining lease (Latitude & Longitude)
20	Sri Pratyusdhar Jha	Sri Pratyusdhar Jha, Near Central Jail, Grant Estate, Sonwadangal, Dumka, Jharkhand	2.31 HA/5.70 acre	Village – Pokharia, P.S. – Shikaripara, District- Dumka State – Jharkhand, Plot No. 544(P), 545(P), 546, 547, 548, 549, 550, 551, 552(P) & 553(P), Khata No.- 03,36,31	24°12'07.6"N to 24°12'14.8"N 87°33'35.7"E to 87°33'41.5"E
21	Shri Mahesh Yadav	Sri Mahesh yadav, H.No- 86, satdha, Koderna, Jharkhand	1.81 ha/4.48 acre	Village – Pahar Aamchuwa, P.S. – Shikaripara, District- Dumka State – Jharkhand, Plot No. 559 & 560	24°12'05.3"N to 24°12'08.8"N 87°33'19.0"E to 87°33'24.4"E
22	M/s Vishnu Stone Enterprises	Shri Virendra Sahu, Nawathi, Koderna, Jharkhand	1.63 ha/4.04 acre	Village – Kushum Ghati, P.S. – Shikaripara, District- Dumka State – Jharkhand., Plot No. 272(P), 273, 387, 388, 392, 393, 402, 403, 404, 407, 408 & 415(P)	24° 11' 41.7"N To 24°11'48.8"N 87°32'41.6"E To 87°32'47.7"E
23	M/s Mammode Minerals Pvt. Ltd.	Shri Nilu Mariya & Partner, Rasikpur, Dumka, Jharkhand	1.64 ha/4.04 acre	Village – Manjhadli, P.S. – Shikaripara, District- Dumka State – Jharkhand, Plot No. 731, 732 & 733	24°11'41.79"N To 24°11'36.77"N 87°34'39.15"E To 87°34'33.11"E
24	M/s Pragati infra	Smt. Shilpi Pandey & Partner, W/o Chandra Shekhar Pandey, Sarua, Dumka, Jharkhand	1.40 ha/3.45 acre	Village – Sarua P.O.- Bando Haripur, P.S. – Dumka, District, Dumka, State – Jharkhand, Plot No. 537 P, 538 P, 539 P, Khata NO 22,11	24°11'50.7"N To 24°11'46.60"N 87°33'55.60"E To 87°33'51.5"E
25	Sri Soi Mandal	Sri Soi Mandal, Gopikandar, Dumka, Jharkhand	1.955 ha/4.83 acre	Mouza–Musna, P.O.- Dharampur, P.S.- Gopikanddar, District- Dumka, State- Jharkhand, Plot No. 8, 9(P), Khata No.- 11,05	24°27'31.7"N To 24°27'21.2"N 87°31'46.0"E To 87°31'41.0"E




DISTRICT MINING OFFICER,
DUMKA
 226 P a g e

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



Sl.No.	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Location of the Mining lease (Latitude & Longitude)
26	M/s Supreme Stone Mine	Sri Jagatbandhu Pandit, R/o Tapsi, Dumka, Jharkhand 827009	1.42 ha/3.52 acre	Mouza - Salbona, J.B. No - 27, 2, 38, Plot No -290, 291, 292, PS - Shikari Para, District - Dumka, State -Jharkhand	24°10'42.8"N to 24°10'48.2"N 87°34'10.2"E to 87°34'16.8"E
27	Sri Fadar Ansari lease transfer to M/s Bansidhar Construction Private Limited	Sri Fadar Ansari, Jogikhop, PO-Rajbandh Palasi, PS- Shikaripara, Dumka, Jharkhand Sri Prakash Kumar Singh, 2nd Floor plot no 388/389 near Biscuit factory More Nasrigani, Digha, Danapur, Patna 800012	2.94 ha/7.27 acre	Mouza - Kusumghati, P.O.& P.S. - Shikaripara, Dist.-Dumka, Jharkhand, Plot No.373, 374, 375, 376, 377, 378,379, 416, 417(P), 426, 432(P), 433(P), 434.	24°11'47.4"N To 24°11'42.4"N 87°32'48.4"E To 87°32'49.8"E,
28	M/s Rajbir Construction Pvt. Ltd.	Sri Birkumar agarwal, 614,Harom Tower, Circular Road, Ranchi, Jharkhand	2.91 ha/7.19 acre	Mouza- Kendpahari, Panchayat- Jhunki, P.S.- Shikaripara, District- Dumka, State- Jharkhand, Plot No.800,801, 802(P), 804, 805, 806, 1307, 1308	24°13'22.73"N To 24°13'15.84"N 87°38'00.59"E To 87°37'52.30"E,
29	Sri Anil Prasad Singh	Sri Anil Prasad, Singh B-4 , Parvati Niwas, Behind SBI, Patel Nagar, Harmu Housing Colony, Ranchi, Jharkhand	2.98 ha/7.36 acre	Mouza- Pokharia, P.O.- Benagaria, P.S.- Shikaripara, District- Dumka, State- Jharkhand, Plot No. 1191(P), 1193(P), 1194(P), 1195(P), 1196(P), 1214(P), 1215, 1216(P), 1217(P), 1218(P), 1219(P), 1250(P).	24°11'55.38"N to 24°12'4.15"N 87°33'29.69"E to 87°33'34.77"E
30	Md. Abdus Salam Ansari	Md. Abdus Salam Ansari, Kalakata, Dumka , Jharkhand	1.39 ha/3.43 acre	Village - Paharpur, P.O. - Benagariya, P.S. - Shikaripara, Dist.-Dumka, Jharkhand, Plot No. 1174, 1175, 1176, 1184, 1285 & 1187 Khata No. 19, 24	24°11'14.30"N to 24°11'21.26"N 87°34'58.15"E to 87°35'2.29"E



**DISTRICT MINING OFFICER,
DUMKA**

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



Sl.No.	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Location of the Mining lease (Latitude & Longitude)
31	M/s K.K. Stone	Shri Bhutka Soren, Daldai, Dumka, Jharkhand	2.98 ha/7.37 acre	MOUZA - POKHARIA, PO - BENAGARIA, PO - SHIKARIPARA, DUMKA, JHARKHAND, PLOT NO. 538(P), 539(P), 540(P), 541, 542(P), 543(P), 1186(P), 1189, 1190(P), 1191(P), 1192, 1197(P), 1221, 1222, 1223, 1224(P), 1225(P), 1226, 1227, 1228(P), 1229(P), 1230(P), 1231(P), 1232(P), 1233, 1234, 1235(P).	24°11'54.28"N to 24°12'6.74"N 87°33'31.06"E to 87°33'39.34"E
32	Shri William Rituraj	Shri William Rituraj, Tola Bathal, Bhagyampur, Khapura, Nawada Bihari	2.96 ha/7.31 acre	Village - Pokharia, P.O.- Benagaria, P.S.- Shikaripara, Dist.-Dumka, Jharkhand, Plot no 523(P), 526(P), 527(P), 528(P), 529(P) & 530(P)	24°12'4.72"N to 24°12'16.65"N 87°33'27.13"E to 87°33'33.62"E
33	Sri Ravindra Nath Chand	Sri Ravindra Nath Chand, Gopikandar, Dumka, Jharkhand	2.69 ha/6.65 acre	MOUZA - SUGAPAHARI, THANA - GOPIKANDAR, THANA NO. - 41, DISTRICT - DUMKA, JHARKHAND. J.B. No: 20, Plot No: 7(P).	24°26'15.20"N to 24°26'21.91"N 87°31'54.12"E to 87°32'02.03"E
34	Sri Ravindra Nath Chand	Sri Ravindra Nath Chand, Gopikandar, Dumka, Jharkhand	2.50 ha/6.18 acre	Mouza - Pindargaria, Thana - Gopikandar, Thana No. - 49, District - Dumka, Jharkhand J.B. No: 03, Plot No: 33.	24°24'55.92"N to 24°25'07.57"N 87°33'10.03"E to 87°33'18.06"E
35	M/s Agrima Infra Engineering Pvt.Ltd.	Sri Rahul Kumar, R/o 105, Hardala Kund, Durga Bari Road, Deoghar, Jharkhand	1.04 ha/2.57 acre	Plot No. - 267P, Khata No. - 01, Thana No. - 25 Village-Kusumghati, P.S.- Shikaripara, Anchal-Shikaripara, District- Dumka, Jharkhand.	24°11'44.51"N to 24°11'41.77"N 87°32'35.01"E to 87°32'35.48"E
36	M/s Agrima Infra Engineering Pvt.Ltd.	Sri Rahul Kumar, R/o 105, Hardala Kund, Durga Bari Road, Deoghar, Jharkhand	2.12 ha/5.24 acre	Khata No. - 01 & 03, Plot No. - 274,275,276,278(P), and 279(P) Village-Kusumghati, P.S.- Shikaripara, Thana No- 25, District- Dumka, State- Jharkhand.	24°11'41.23"N to 24°11'41.77"N 87°32'35.42"E to 87°32'35.48"E



**DISTRICT MINING OFFICER
DUMKA**

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



Sl.No.	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acre)	Address of the Mining Lease	Location of the Mining lease (Latitude & Longitude)
37	Shri Dilip Kumar Modi	Shri Dilip Kumar Modi, Asanbani, Dumka, Jharkhand	1.87 ha/4.63 acre	MOUZA-LOWAPARA, PANCHAYAT- SAHARPUR, P.O. - PAKDAHA, P.S.-SHIKARIPARA (NO. - 03), DISTRICT- DUMKA, STATE- JHARKHAND. PLOT NO. - 36(P), 37(P), 38(P) KHATA NO.- 13, 08, 03	24°11'51.45"N to 24°11'44.47"N 87°33'0.00"E to 87°32'54.09"E
38	Shri Bheru Lal Sharma	Shri Bheru Lal Sharma, Ashaholi, Bhilwara, Rajasthan-311801	2.83 ha/6.99 acre	MOUZA- AAMCHUWAN, P.O. - BENAGARIA, P.S. -SHIKARIPARA, DISTRICT - DUMKA, STATE- JHARKHAND. PLOT NO. - 778, 779, 780, 781(P), 782, 783, 784, 792(P).	24°10'11.76"N to 24°10'16.53"N 87°37'15.14"E to 87°37'24.68"E
39	M/s Tridev Engicon Pvt. Ltd.	Shri Ravi Shankar kumar, H.No-298, Ward No-04, Williams Town, Shree Krishnapuri, Deoghar, Jharkhand	2.43 ha/6.0 acre	MOUZA - RAMBANI, BLOCK & P.S. - GOPIKANDAR, P.O. - DHARAMPUR, DISTRICT - DUMKA, STATE- JHARKHAND. Plot No. - 36, 38, 39, 59(P) Khata No. - 10, 20, 26	24°26'49.609"N to 24°26'56.165"N 87°31'39.418"E to 87°31'46.673"E
40	Shree Deepak Raj	Shree Deepak Raj, Hemra, begusarai, Bihar	2.83 ha/7.0 acre	MOUZA- RAMBANI, BLOCK & P.S. - GOPIKANDAR, P.O. - DHARAMPUR, DISTRICT - DUMKA, STATE- JHARKHAND. PLOT NO. - 130, 228P, 237 KHATA NO. - 06, 10	24°26'40.88"N to 24°26'50.84"N 87°31'52.69"E to 87°31'58.24"E



**DISTRICT MINING OFFICER,
DUMKA**

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



Sl.No.	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Location of the Mining lease (Latitude & Longitude)
41	M/s Baba Stone	Shri Sanjay Kumar Mandal & Partners, Kharauri Bazar, Dumka, Jharkhand	2.97 ha/7.33 acre	MOUZA - RAMBANI, BLOCK & P.S. - GOPIKANDAR, P.O. - DHARAMPUR, DISTRICT - DUMKA, STATE- JHARKHAND, PLOT NO. - 194 (P), 195, 196(P), 197(P), 198(P), 285, 286. KHATA NO. - 3	24°26'30.19"N to 24°26'36.81"N 87°31'30.75"E to 87°31'39.79"E
42	Shri Sujeet Kumar Singh	Shri Sujeet Kumar Singh, Arak, Buxar, Bihar	2.834 ha/7.0 acre	MOUZA - SALBONA PAHAR, PANCHAYAT - SAHARPUR, PANCHAYAT - SAHARPUR, P.O. - SAHARPUR, P.O. - BENAGARIA, P.S. - SHIKARIPARA, DISTRICT - DUMKA, STATE- JHARKHAND, PLOT NO. - 273(P), 274	24°11'8.93"N to 24°11'01.10"N 87°34'06.22"E to 87°33'57.24"E
43	M/s Aditya Stone	Prop: Shri Amulya Kumar Paul, Bhutokodiya, Dumka, Jharkhand	2.60 ha/6.41 acre	MOUZA & PANCHAYAT - MUSNA, P.O. - DHARAMPUR, P.S. - GOPIKANDAR, DISTRICT - DUMKA, STATE- JHARKHAND, Plot No. - 113, 116(P), 117(P), 118(P), 119(P)	24°27'23.06"N to 24°27'14.93"N 87°31'55.88"E to 87°31'48.51"E
44	Shri Madhurendra Jha	Shri Madhurendra Jha, Harrakundi Road, purana Dumka, Dumka, Jharkhand	1.62 ha/4.0 acre	MOUZA - LABAPARA, P.O. - PAKDAHA, P.S. - SHIKARIPARA, DISTRICT - DUMKA, STATE- JHARKHAND 816118, PLOT NO. - 80(P), 81(P), 82(P); KHATA NO.- 17	24°12'1.30"N to 24°11'53.86"N 87°33'25.47"E to 87°33'21.77"E



**DISTRICT MINING OFFICER,
DUMKA**

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



Sl.No.	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Location of the Mining lease (Latitude & Longitude)
45	Shri Pankaj Kumar Mandal	Shri Pankaj Kumar Mandal, H.No.139, Gopikandar, dumka, Jharkhand	0.99 ha/2.45 acre	MOUZA- RAMPUR, P.O.- RANGAMISSION, P.S.+Tehsil - GOPIKANNDAR, DISTRICT - DUMKA, STATE- JHARKHAND,814103, PLOT NO. - 436(P), 437, 438, 439. KHATA NO.- 05, 13	24°27'17.834"N to 24°27'21.907"N to 87°31'27.901"E to 87°31'33.888"E
46	M/s Rajah Mining Corporation	Shri Seikh Salauddin, Sontsal, Sekedda, P.O- Mokdummagar, PS- Mohammad Bazar, Birbhum, Jharkhand-731224	1.935 ha/4.782 acre	Mauza-Kantapahari , plot no- 869(P),871(P),872,873,874, 875,876,877,878 879, Thana-Shikaripara, District- Dumka, Jharkhand	24°05'34.14"N to 24°05'42.37"N 87°34'32.41"E to 87°34'49.40"E
47	Shri Kaushal Kishore Singh & Shri Harinandan Choudhary	Shri Kaushal Kishore Singh & Shri Harinandan Choudhary, Dudhani, Dumka, Jharkhand-814101	1.137 ha/2.81 acre	Village-Saharpur, P.S.- Shikaripara, District- Dumka, Jharkhand, Plot no- 18,19,20(P)	24°11'18.68"N to 24°11'14.13"N 87°34'29.00"E to 87°34'33.68"E
48	Dani Nath Stone	Shri Jata Shankar Sahay, purana A.N. College Campus, Dudhani, Dumka, Jharkhand-814101	3.75 acre	Village- Dalahi, P.S.- Kathikund, District- Dumka, Jharkhand, 04,05,06(P), 12,13	24°23'7.93"N to 24°23'12.60"N 87°28'41.76"E to 87°28'50.49"E
49	Sri Haradhan Verma	Sri Haradhan Verma, Village +P.O- Rajbandh, P.S Shikaripara, District- Dumka, Jharkhand 816118	1.38 ha/3.40 acre	Village – Salbonapahar, P.O.- Benagariya, P.S.- Shikaripara, Dist.-Dumka, Jharkhand, PlotNo-124 (P), Khata No.-06	24°11'34.42"N to 24°11'38.04"N 87°34'08.51"E to 87°34'14.63"E
50	Smt Mini Hansda	Smt Mini Hansda, W/o Sri Mone Lal Marandi, Vill:- Manjladih, Post:- Benagadiya, P.S:- Shikaripara, District Dumka.	4.62 acre	Village – Salbonapahar, P.S.- Shikaripara, Dist.- Dumka, Jharkhand, PlotNo-275,276,277(P), 278(P)	24°11'02.27"N to 24°11'08.29"N 87°34'02.85"E to 87°34'09.77"E




DISTRICT MINING OFFICER,
DUMKA

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



Sl.No.	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Location of the Mining lease (Latitude & Longitude)
51	V R Minerals	Partner. 1. Sri Ajay Kumar, S/o late Ganga Kumar Address:- Kush Apartment, Ram Janaki Hawainagar, Ranchi. 2. Sri Pares Ghoshal, S/o H.M Ghoshal, Address:- Pathal Kudwa, Puruliya Road Ranchi.	6.16 acre	Village – Benagarlya, P.S. – Shikaripara, Dist.-Dumka, Jharkhand, PlotNo-651,	24°10'35.75"N to 24°10'42.33"N 87°36'37.60"E to 87°36'43.87"E



DISTRICT MINING OFFICER
DUMKA

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

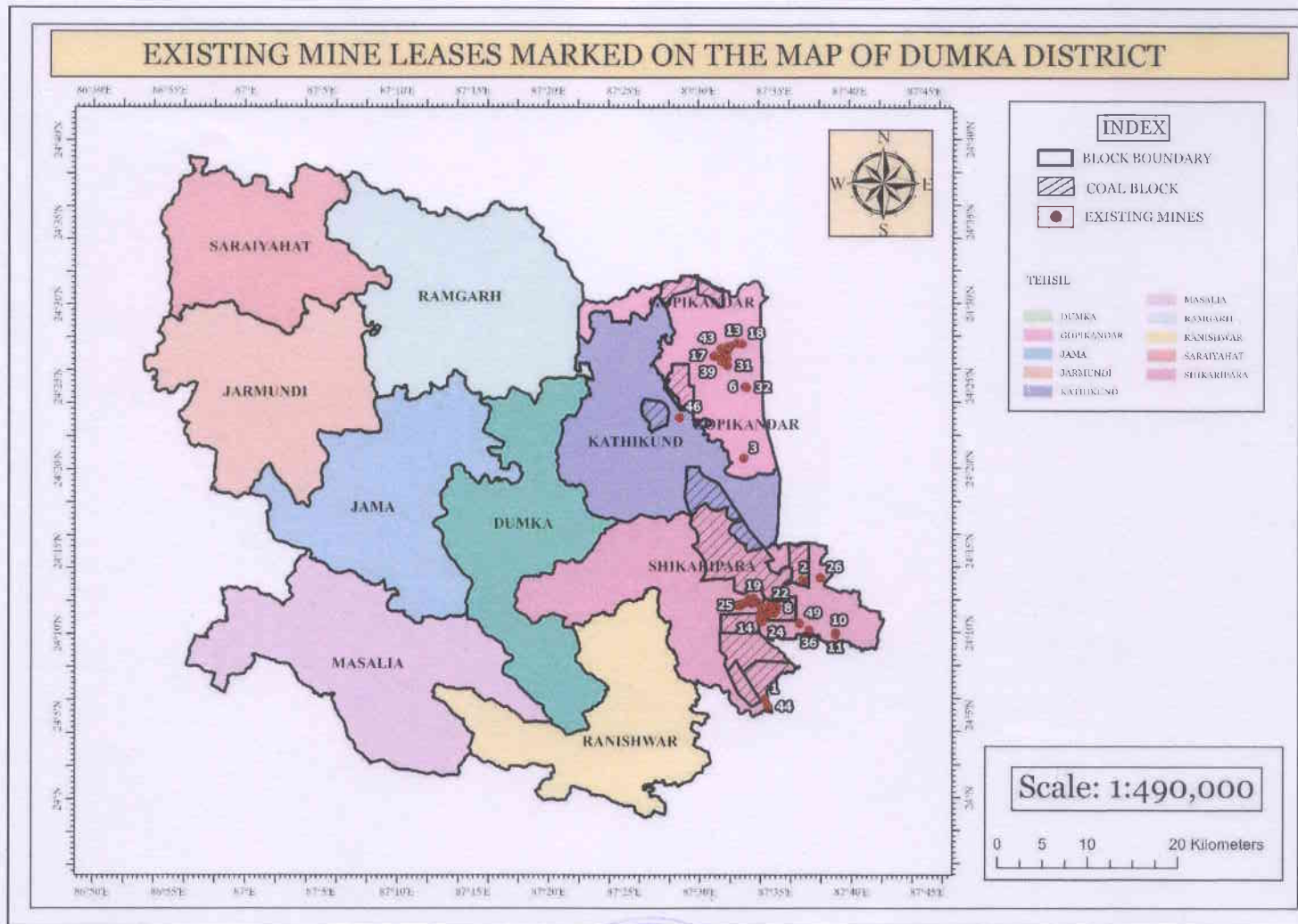


Figure 18-1: Location Map Mining Lease in Dumka District




DISTRICT MINING OFFICER
DUMKA Page

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



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

S. No	Village	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Location of the Mining lease (Latitude & Longitude)
CIRCLE - SHIKARIPARA (TOTAL MINES-33)						
1	Aamchuwan	Shri Bheru Lal Sharma	Shri Bheru lal Sharma , Ashaholi, Bhilwara, Rajasthan-311801	2.83 ha/6.99 acre	MOUZA- AAMCHUWAN, P.O. - BENAGARIA, P.S. -SHIKARIPARA, DISTRICT- DUMKA, STATE- JHARKHAND. PLOT NO. - 778, 779, 780, 781(P), 782, 783, 784, 792(P).	24°10'11.76"N to 24°10'16.53"N 87°37'15.14"E to 87°37'24.68"E
2	Benagariya	V R Minerals	Partner. 1. Sri Ajay Kumar, S/o late Ganga Kumar Address:- Kush Apartment, Ram Janaki Hawainagar, Ranchi. 2. Sri Paresh Ghoshal, S/o H.M Ghoshal, Address:- Pathal Kudwa, Puruliya Road Ranchi.	6.16 acre	Village – Benagariya, P.S. – Shikaripara, Dist.-Dumka, Jharkhand, PlotNo-651,	24°10'35.75"N to 24°10'42.33"N 87°36'37.60" E to 87°36'43.87" E
3	Daldali	Shri Parasnath Heights Pvt. Ltd.	Shri Nirmal Jain, Diwakar Tower, 1st floor, Saithaia, Birbhum, West Bengal	2.11 HA/5.20 acre	MOUZA- DALDALI, P.O. - DALDALI, BLOCK & P.S. - SHIKARIPARA, DISTRICT- DUMKA, STATE- JHARKHAND. PLOT NO. - 2130, 2131(P), 2132(P), 2133, 2134, 2135, 2136, 2137, 2138, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149. KHATA NO. - 04, 54, 56, 60	24°6'1.258"N to 24°6'8.259"N 87°34'19.132"E to 87°34'28.460"E



**DISTRICT MINING OFFICER
DUMKA**

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



S. No	Village	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Location of the Mining lease (Latitude & Longitude)
4	Kendpahari	Shri Mainul Islam	Shri Mainul Islam, Mahendrapur, birbhum, West Bengal	2.17 ha/5.36 acre	MOUZA- KENDPAHARI, BLOCK & P.S. -SHIKARIPARA, DISTRICT- DUMKA, STATE- JHARKHAND. PLOT NO. - 723, 724, 940, 941, 945, 946, 947, 948. KHATA NO.- 02,03,25,35,43	24°13'12.645"N to 24°13'22.398"N 87°36'53.350"E to 87°36'59.767"E
		M/s Rajbir Construction Pvt. Ltd.	Sri Birkumar agarwal, 614, Hariom Tower, Circular Road, Ranchi, Jharkhand	2.91 ha/7.19 acre	Mouza- Kendpahari, Panchayat- Jhunki, P.S.- Shikaripara, District- Dumka, State- Jharkhand, Plot No.800,801, 802(P), 804, 805, 806, 1307, 1308	24°13'22.73"N To 24°13'15.84"N 87°38'00.59"E To 87°37'52.30"E.
		M/s Rajah Mining Corporation	Shri Seikh Salauddin, Sontsal, Sekedda, PO- Mokdumnagar, PS-Mohammad Bazar, Birbhum, Jharkhand-731224	1.935 ha/4.782 acre	Mauza-Kendpahari , plot no- 869(P),871(P),872,873,874,875,876,877,878 879, Thana-Shikaripara, District-Dumka, Jharkhand	24°05'34.14"N to 24°05'42.37"N 87°34'32.41"E to 87°34'49.40"E
5	Kusumghati	M/s Vishnu Stone Enterprises	Shri Virendra Sahu, Nawadih, Koderma, Jharkhand	1.63 ha/4.04 acre	Village - Kusumghati, P.S. - Shikaripara, District-Dumka State - Jharkhand., Plot No. 272(P), 273, 387,388, 392, 393, 402, 403, 404, 407, 408 & 415(P)	24°11'41.7"N To 24°11'48.8"N 87°32'41.6"E To 87°32'47.7"E
		Sri Fadar Ansari lease transfer to M/s Bansidhar Construction Private Limited	Sri Fadar Ansari , Jogikhop, PO- Rajbandh Palasi, PS- Shikaripara , Dumka, Jharkhand Sri Prakash Kumar Singh, 2nd Floor plot no 388/389 near Biscuit factory More Nasriganj, Digha, Danapur, Patna 800012	2.94 ha/7.27 acre	Mouza - Kusumghati, P.O.& P.S. - Shikaripara, Dist.-Dumka, Jharkhand, Plot No.373, 374, 375, 376, 377, 378,379, 416, 417(P), 426, 432(P), 433(P), 434.	24°11'47.4"N To 24°11'42.4"N 87°32'48.4"E To 87°32'49.8"E,



235 Page
DISTRICT MINING OFFICER.
DUMKA

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



S. No	Village	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Location of the Mining lease (Latitude & Longitude)
		M/s Agrima Infra Engineering Pvt.Ltd.	Sri Rahul Kumar, R/o 105, Hardala Kund, Durga Bari Road, Deoghar, Jharkhand	1.04 ha/2.57 acre	Plot No. – 267P, Khata No. – 01, Thana No. – 25 Village-Kusumghati, P.S-Shikaripara, Anchal-Shikaripara, District- Dumka, Jharkhand.	24°11'44.51"N to 24°11'41.77"N 87°32'35.01"E to 87°32'35.48"E
		M/s Agrima Infra Engineering Pvt.Ltd.	Sri Rahul Kumar, R/o 105, Hardala Kund, Durga Bari Road, Deoghar, Jharkhand	2.12 ha/5.24 acre	Khata No. – 01 & 03, Plot No. – 274,275,276,278(P), and 279(P) Village-Kusumghati, P.S-Shikaripara, Thana No- 25, District- Dumka, State-Jharkhand.	24°11'41.23"N to 24°11'41.77"N 87°32'35.42"E to 87°32'35.48"E
6	Lowapara	Shri Sunil Kumar Mandal	Shri Sunil Kumar Mandal, Kushpahari, PO-Baramasia, PS-Shikaripara, Dumka , Jharkhand	1.76 ha/4.34 acre	Mouza – Lowapara , P.O. - Benagaria, Block & P.S. - Shikaripara, Dist. – Dumka, State – Jharkhand ., Khata No. - 06,09,10., Plot No. -84,85,155	24°11'50.388"N to 24°11'56.875"N 87°33'29.217"E to 87°33'37.336"E
		Shri Dilip Kumar Modi	Shri Dilip Kumar Modi, Asanbani, Dumka , Jharkhand	1.87 ha/4.63 acre	MOUZA- LOWAPARA, PANCHAYAT- SAHARPUR, P.O. - PAKDAHA, P.S. -SHIKARIPARA (NO. – 03), DISTRICT- DUMKA, STATE- JHARKHAND. PLOT NO. - 36(P), 37(P), 38(P) KHATA NO.- 13, 08, 03	24°11'51.45"N to 24°11'44.47"N 87°33'0.00"E to 87°32'54.09"E
		Shri Madhurendra Jha	Shri Madhurendra Jha, Harnakundi Road, purana Dumka, Dumka, Jharkhand	1.62 ha/4.0 acre	MOUZA - LOWAPARA, P.O.- PAKDAHA, P.S.- SHIKARIPARA, DISTRICT- DUMKA, STATE- JHARKHAND 816118, PLOT NO. - 80(P), 81(P), 82(P): KHATA NO.-17	24°12'1.30"N to 24°11'53.86"N 87°33'25.47"E to 87°33'21.77"E
7	Manjhladih	M/s Manmode	Shri Nilu Mariya & Partner, Rasikpur, Dumka, jharkhand	1.64 ha/4.04 acre	Village – Manjhladih, P.S. – Shikaripara, District- Dumka State – Jharkhand, Plot No. 731, 732 & 733	24°11'41.79"N To 24°11'36.77"N



236
DISTRICT MINING OFFICER
DUMKA

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



S. No	Village	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Location of the Mining lease (Latitude & Longitude)
		Minerals Pvt. Ltd.				87°34'39.15"E To 87°34'33.11"E
8	Pahar Aamchuwa	Shri Mahesh Yadav	Sri Mahesh yadav,H.No-86,satdiha,Koderma, Jharkhand	1.81 ha/4.48 acre	Village - Pahar Aamchuwa, P.S. - Shikaripara, District- Dumka State - Jharkhand, Plot No. 559 & 560	24°12'05.3"N to 24°12'08.8"N 87°33'19.0"E to 87°33'24.4"E
9	Paharpur	Shri Arun Kumar Sah	Shri Arun Kumar Sah, Village+Post+P.S.- Shikaripara,District-Dumka	1.61 ha/3.97 acre	MOUZA- PAHARPUR, P.O. - BENAGARIA, P.S. -SHIKARIPARA, DISTRICT-DUMKA, STATE- JHARKHAND., PLOT NO. - 960(P), 961, 962, 963, 964, 965, 966., KHATA NO. - 04, 19, 23	24°11'21.06"N to 24°11'27.02"N 87°35'03.05"E to 87°35'08.30"E
		Shri Santosh Kumar Dan	Shri Santosh Kumar Dan, Kolaibari, PO- Rajbandh Palasi,PS Shikaripara, Dumka , Jharkhand	1.20 ha/2.97 acre	Mouza- Paharpur, P.O.-Benagaria, Block+P.S.- Shikaripara, District-Dumka, Jharkhand ., KHATA NO. 16 ., PLOT NO. -698(P)	24°11'36.063" N to 24°11'41.223" N 87°35'7.745" E to 87°35'12.591" E
		Md. Abdus Salam Ansari	Md. Abdus Salam Ansari, Kalakata, Dumka , Jharkhand	1.39 ha/3.43 acre	Village - Paharpur, P.O. - Benagariya, P.S. - Shikaripara, Dist.-Dumka, Jharkhand.Plot No. 1174, 1175, 1176, 1184, 1285 & 1187 Khata No. 19, 24	24°11'14.30"N to 24°11'21.26"N 87°34'58.15"E to 87°35'2.29"E
10	Pokharia	Sri Pratyusdhar Jha	Sri Pratyusdhar Jha,Near Central Jail, Grant Estate, Sonwadangal,Dumka , Jharkhand	2.31 HA/5.70 acre	Village - Pokharia, P.S. - Shikaripara, District- Dumka State - Jharkhand, Plot No. 544(P), 545(P), 546, 547, 548, 549, 550, 551, 552(P) & 553(P)., Khata No.- 03,36,31	24°12'07.6"N to 24°12'14.8"N 87°33'35.7"E to 87°33'41.5"E



237 Page
DISTRICT MINING OFFICER.
DUMKA

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



S. No	Village	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Location of the Mining lease (Latitude & Longitude)
		Sri Anil Prasad Singh	Sri Anil Prasad, Singh B-4 , Parvati Niwas, Behind SBI, Patel Nagar, Harmu Housing Colony, Ranchi, Jharkhand	2.98 ha/7.36 acre	Mouza- Pokharia, P.O. - Benagaria, P.S.- Shikaripara, District-Dumka, State-Jharkhand, Plot No. 1191(P), 1193(P), 1194(P), 1195(P), 1196(P), 1214(P), 1215, 1216(P), 1217(P), 1218(P), 1219(P), 1250(P).	24°11'55.38"N to to 24°12'4.15"N 87°33'29.69"E to 87°33'34.77"E
		M/s K.K. Stone	Shri Bhutka Soren, Daldali, Dumka, Jharkhand	2.98 ha/7.37 acre	MOUZA - POKHARIA, PO - BENAGARIA, PO - SHIKARIPARA, DUMKA, JHARKHAND, PLOT NO. 538(P), 539(P), 540(P), 541, 542(P), 543(P), 1186(P), 1189, 1190(P), 1191(P), 1192, 1197(P), 1221, 1222, 1223, 1224(P), 1225(P), 1226, 1227, 1228(P), 1229(P), 1230(P), 1231(P), 1232(P), 1233, 1234, 1235(P).	24°11'54.28"N to 24°12'6.74"N 87°33'31.06"E to 87°33'39.34"E
		Shri William Rituraj	Shri William Rituraj, Tola Bathal, Bhagvanpur, Khapura, Nawada Bihar	2.96 ha/7.31 acre	Village - Pokharia, P.O. - Benagaria, P.S. - Shikaripara, Dist. - Dumka, Jharkhand, Plot no 523(P), 526(P), 527(P), 528(P), 529(P) & 530(P)	24°12'4.72"N to 24°12'16.65"N 87°33'27.13"E to 87°33'33.62"E
11	Saharpur	M/s Shree Shree Stone Works	Islam Miyan (Partner), Saharpur, Post-Benagaria, Thana-Shikaripara, Dumka, Jharkhand	2.97 ha/7.34 acre	Khata No. - 17, 45, 30 & 39 Plot No. - 131, 132, 133 & 134 Village-Saharpur, Thana-Shikaripara, Thana No. - 12 District-Dumka, State- Jharkhand	24°11'13.00"N to 24°11'06.68"N 87°34'15.17" E TO 87°34'23.34" E
		M/s Jai Maa Tara Stone Product	Prop: Shri Binod Prasad Bhagat, Sarasdangal, Dumka, Jharkhand	2.73 ha/6.73 acre	Village- Saharpur, Thana- Shikaripara, Thana No.- 12, District- Dumka, STATE- JHARKHAND, Khata No.- 52 22, Plot No.- 30 21, 24 (P)	24°11'22.8"N to 24°11'12.1"N 87°34'29.8"E to 87°34'24.4"E



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DISTRICT MINING OFFICER
DUMKA

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



S. No	Village	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Location of the Mining lease (Latitude & Longitude)
		Shri Kaushal Kishore Singh & Shri Harinandan Choudhary	Shri Kaushal Kishore Singh & Shri Harinandan Choudhary, Dudhani, Dumka. Jharkhand- 814101	1.137 ha/2.81 acre	Village-Saharpur, P.S.-Shikaripara, District- Dumka, Jharkhand, Plot no- 18,19,20(P)	24°11'8.68"N to 24°11'14.13"N 87°34'29.00"E to 87°34'33.68"E
12	Salbona Pahar	Shri Parasnath Industries	Proprietor- Shri Nirmal Jain, At Shriram Apartment, Ranchi Patna Road, PO- Jhumri Tilaiaya, Koderma, Jharkhand	2.34 ha/5.79 acre	MOUZA- SALBONA PAHAR, PANCHAYAT - SAHARPUR, P.O. - BENAGARIA, P.S. - SHIKARIPARA, DISTRICT- DUMKA, STATE- JHARKHAND. PLOT NO. - 243(P), 244(P), 251(P), 253(P), KHATA NO. - 24, 36, 37	24°10'50.42"N to 24°10'44.48"N 87°34'01.93"E to 87°33'51.72"E
		M/s Supreme Stone Mine	Sri Jagatbandhu Pandit, R/o Tapsi, Dumka, Jharkhand 827009	1.42 ha/3.52 acre	Mouza - Salbona, J.B. No - 27, 2, 38, Plot No. -290, 291, 292, PS - Shikari Para, District - Dumka, State -Jharkhand	24°10'42.8"N to 24°10'48.2"N 87°34'10.2"E to 87°34'16.8"E
		Shri Sujeet Kumar Singh	Shri Sujeet Kumar Singh, Arak, Buxar, Bihar	2.834 ha/7.0 acre	MOUZA-- SALBONA PAHAR, PANCHAYAT - SAHARPUR, PANCHAYAT - SAHARPUR, P.O. - BENAGARIA, P.S. -SHIKARIPARA, DISTRICT- DUMKA, STATE- JHARKHAND. PLOT NO. - 273(P), 274	24°11'8.93"N to 24°11'01.10"N 87°34'06.22"E to 87°33'57.24"E
		Sri Haradhan Verma	Sri Haradhan Verma, Village +P.O- Rajbandh, P.S Shikaraipara, District- Dumka, Jharkhand 816118	1.38 ha/3.40 acre	Village - Salbona Pahar, P.O. - Benagariya, P.S. - Shikaripara, Dist.-Dumka, Jharkhand, PlotNo-124 (P), Khata No.- 06	24°11'34.42"N to 24°11'38.04"N 87 34'08.51" E to 87 34'14.63" E



239 | Page
 DISTRICT MINING OFFICER
 DUMKA

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



S. No	Village	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Location of the Mining lease (Latitude & Longitude)
		Smt Mini Hansda	Smt Mini Hansda, W/o Sri Mone Lal Marandi, Vill:- Manjhladih, Post:- Benagadiya, P.S:- Shikaripara, District Dumka.	4.62 acre	Village – Salbona Pahar, P.S. – Shikaripara, Dist.-Dumka, Jharkhand, PlotNo-275,276,277(P), 278(P)	24°11'02.27"N to 24°11'08.29"N 87°34'02.85" E to 87 34'09.77" E
13	Sarua	M/s Pragati infra	Smt. Shilpi Pandey & Partner,W/o Chandra Shekhar Pandey, Sarua, Dumka, Jharkhand	1.40 ha/3.45 acre	Village – Sarua P.O.- Bando Haripur, P.S. – Dumka, District , Dumka, State – Jharkhand . Plot No. 537 P, 538 P, 539 P, Khata N0 22.11	24°11'50.7"N To 24°11'46.60"N 87°33'55.60"E To 87°33'51.5"E
14	Shiyalpahari	Shri Amardeep	Shri Amardeep, R/O House No. 1002, Sector -14, Sonipat,Haryana	2.43 ha/6.01 acre	Mouza – Shiyalpahari, P.S. - Shikaripara, Dist. – Dumka, State – Jharkhand., Khata No.-3,4,5,6,7,8,9,.. Plot No. - 44 (P), 49 (P), 58, 59 , 48 (P) ,71 (P), 40 (P), 42 (P), 51 (P) , 43, 45 (P), 46 (P), 52 (P), 60 (P) , 50 (P)	24°09'59.73"N to 24°10'08.31"N 87°39'00.03"E to 87°39'06.60"E
		Shri Amardeep	Shri Amardeep, R/O House No. 1002, Sector -14, Sonipat,Haryana	2.38 ha/5.88 acre	Mouza – Shiyalpahari, P.S. - Shikaripara, Dist. – Dumka, State – Jharkhand, Khata No. -7,6,8,9,4., Plot No. - 38 (P), 42 (P), 51 (P), 52 (P), 148 (P) , 48 (P) , 52 (P) , 50 (P) , 49 (P) .	24° 09' 55.10" N to 24° 10' 01.66" N 87° 38' 58.86" E to 87° 39' 05.41" E
CIRCLE- GOPIKANDER (TOTAL MINES- 17)						
15	Ahrichuwan	M/s Raksha Kali Stone Works	Shri Shankar Bhagat, Ramnagar, PO. Malpahari, Pakur, Jharkhand	1.66 HA/4.09 acre	Mouza – AHRICHUWAN, Block & P.S. - GOPIKANDAR, P.O. - KARUDIH, DISTRICT- DUMKA, STATE- JHARKHAND. PLOT NO. – 395, 396. KHATA NO. -- 35, 16.	24°20'39.75"N to 24°20'44.91"N 87°32'57.88"E to 87°33'03.40"E



3404/1/2018
DISTRICT MINING OFFICER
DUMKA

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



S. No	Village	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Location of the Mining lease (Latitude & Longitude)
16	Jitpur	M/s R.A.N Enterprises	Prop: Sri Amit Kumar, Dumarchir, Pakur, Jharkhand	2.65 ha/6.56 acre	Village – Jitpur, P.O.- Dharampur, P.S. – Gopikandar, District- Dumka State – Jharkhand., Khata No. 15, 10, 13 .., Plot No. 28,27,34,33,67,26,25	24°26'50.01"N to 24°26'57.04"N 87°31'02.08"E to 87°31'07.08"E
17	Lakhibad	M/s Varun Singh Sisodia Private Limited	Shri Varun Singh(Managing Diurector), 12-Kishorbhawan , Justice Mandal Path. DAV School East, Rajvanshi Nagar. Patna	1.78 ha/4.39 acre	Mouza – Lakhibad, Block - Gopikandar, P.S. – Gopikandar, Dist. – Dumka, State – Jharkhand., Khata No.- 2 , 15,12 Plot No. - 428 (P), 429 (P) , 431 (P) , 432 (P), 434	24°27'36.660"N to 24°27'41.844"N 87°32'32.873"E to 87°32'40.535"E
		M/s Lakhinarayan Stone Works	Shri Manoj Kumar Gupta & Partner, Gopikandar, dumka, jharkhand	1.53 HA/3.77 acre	Village – Lakhibad, P.O.- Ranga Mission, P.S. – Gopikandar, District Dumka, State – Jharkhand., Plot No.- 862 P Khata NO -08	24°27'34.80"N to 24°27'39.38"N 87°32'52.90"E to 24°27'34.80"N
18	Musna	M/s Maa Kali Stone	Shri Ajay Kumar Bhagat, Ganpura, PS. Pakuria, pakur, Jharkhand	2.46 HA/6.08 acre	MOUZA & PANCHAYAT– MUSNA, P.O. - DHARAMPUR, P.S. - GOPIKANDAR, DISTRICT- DUMKA, STATE- JHARKHAND. Plot No. – 62(P), 63(P), 64(p), 65(P), 66(P), 67, 68(P), 72, 73, 74(P), 78(P). Khata No. - 32, 24, 03, 34, 11, 35, 20 & 13	24°27'25.72"N to 24°27'18.31"N 87°32'3.93"E to 87°31'57.64"E
		M/s Raksha Kali Stone Works	Sri Manoj Kumar Bhagat, Sarasdangal, PS. Shikaripara, Dumka, Jharkhand	2.955 ha/7.30 acre	MOUZA & PANCHAYAT– MUSNA, P.O. - DHARAMPUR, P.S. - GOPIKANDAR, DISTRICT- DUMKA, STATE- JHARKHAND. Plot No. – 708(P), 711(P), 715(p), 716(P), 717(P), 718(P). Khata No. – 23, 24, 30, 37	24°27'23.59"N to 24°27'16.59"N 87°32'50.92"E to 87°32'43.13"E



**DISTRICT MINING OFFICER-
DUMKA**

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



S. No	Village	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Location of the Mining lease (Latitude & Longitude)
		Sri Soi Mandal	Sri Soi Mandal, Gopikandar, Dumka, Jharkhand	1.955 ha/4.83 acre	Mouza-Musna, P.O.- Dharampur, P.S.- Gopikandar, District-Dumka, State-Jharkhand, Plot No. 8, 9(P), Khata No.- 11.05	24°27'31.7"N To 24°27'21.2"N 87°31'46.0"E To 87°31'41.0"E
		M/s Aditya Stone	Prop: Shri Amuly Kumar Paul, Bhutokodiya, Dumka, Jharkhand	2.60 ha/6.41 acre	MOUZA & PANCHAYAT- MUSNA, P.O. - DHARAMPUR, P.S. - GOPIKANDAR, DISTRICT- DUMKA, STATE- JHARKHAND. Plot No. - 113, 116(P), 117(P), 118(P), 119(P)	24°27'23.06"N to 24°27'14.93"N 87°31'55.88"E to 87°31'48.51"E
19	Pindargaria	Sri Utpal Kumar Sen	Sri Utpal Kumar Sen, Kundit, PO+Thana-Kundit, Jamtara, Jharkhand	2.26 ha/5.59 acre	MOUZA - PINDARGARIA, THANA - GOPIKANDAR, THANA NO. - 49, DISTRICT - DUMKA, JHARKHAND	24°24'58.33"N to 24°25'05.26"N 87°33'04.32"E to 87°33'13.28"E
		Sri Ravindra Nath Chand	Sri Ravindra Nath Chand, Gopikandar, Dumka, Jharkhand	2.50 ha/6.18 acre	Mouza - Pindargaria, Thana - Gopikandar, Thana No. - 49, District - Dumka, Jharkhand J.B. No: 03, Plot No: 33.	24°24'55.92"N to 24°25'07.57"N 87°33'10.03"E to 87°33'18.06"E
20	Rambani	M/s R.S.S Stone Works	Sri Rahul Singh & Partners, Sirsia, po.-Kanki, Thana-Palojori, Deoghar, Jharkhand	1.73 ha/4.28 acre	MOUZA- RAMBANI, BLOCK & P.S. - GOPIKANDAR, P.O. - DHARAMPUR, DISTRICT- DUMKA, STATE- JHARKHAND. PLOT NO. - 135, KHATA NO. - 10	24°26'44.03"N to 23°26'51.93"N 87°31'47.81"E to 87°31'52.79"E
		M/s S.P. Stone Works	Shri Purushottam Sharan Prashant, at Shrikant road Belagagan, PS.- Deoghar, Deoghar, Jharkhand	1.97 ha/4.870 acre	MOUZA- RAMBANI, BLOCK & P.S. - GOPIKANDAR, P.O. - DHARAMPUR, DISTRICT- DUMKA, STATE- JHARKHAND. PLOT NO. - 85 (P), KHATA NO. - 27	24°27'01.47"N to 24°27'05.57"N 87°31'51.76"E to 87°32'01.33"E



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DISTRICT MINING OFFICER
DUMKA

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



S. No	Village	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Location of the Mining lease (Latitude & Longitude)
		M/s Tridev Engicon Pvt. Ltd.	Shri Ravi Shankar kumar, H.No-298, Ward No-04, Williams Town , Shree Krishnapuri, Deoghar, Jharkhand	2.43 ha/6.0 acre	MOUZA – RAMBANI, BLOCK & P.S. - GOPIKANDAR, P.O. - DHARAMPUR, DISTRICT- DUMKA, STATE- JHARKHAND. Plot No. – 36, 38, 39, 59(P) Khata No. – 10, 20, 26	24°26'49.609"N to 24°26'56.165"N 87°31'39.418"E to 87°31'46.673"E
		Shree Deepak Raj	Shree Deepak Raj, Hemra, begusarai, Bihar	2.83 ha/7.0 acre	MOUZA – RAMBANI, BLOCK & P.S. - GOPIKANDAR, P.O. - DHARAMPUR, DISTRICT- DUMKA, STATE- JHARKHAND. PLOT NO. – 130, 228P, 237 KHATA NO. – 06, 10	24°26'40.88"N to 24°26'50.84"N 87°31'52.69"E to 87°31'58.24"E
		M/s Baba Stone	Shri Sanjay Kumar Mandal & Partners, Kharauni Bazar, Dumka , Jharkhand	2.97 ha/7.33 acre	MOUZA – RAMBANI, BLOCK & P.S. - GOPIKANDAR, P.O. - DHARAMPUR, DISTRICT- DUMKA, STATE- JHARKHAND. PLOT NO. - 194 (P), 195, 196(P), 197(P), 198(P), 285, 286. KHATA NO. – 3	24°26'30.19"N to 24°26'36.81"N 87°31'30.75"E to 87°31'39.79"E
21	Rampur	Shri Pankaj Kumar Mandal	Shri Pankaj Kumar Mandal, H.No.139, Gopikandar, dumka, Jharkhand	0.99 ha/2.45 acre	MOUZA- RAMPUR, P.O. - RANGAMISSION, P.S.+Tehsil - GOPIKANDAR, DISTRICT- DUMKA, STATE- JHARKHAND,814103, PLOT NO. - 436(P), 437, 438, 439. KHATA NO.- 05, 13	24°27'17.834"N to 24°27'21.907"N 87°31'27.901"E to 87°31'33.888"E
22	Sugapahari	Sri Ravindra Nath Chand	Sri Ravindra Nath Chand, Gopikandar , Dumka, Jharkhand	2.69 ha/6.65 acre	MOUZA – SUGAPAHARI, THANA - GOPIKANDAR, THANA NO. – 41, DISTRICT - DUMKA, JHARKHAND. J.B. No: 20, Plot No: 7(P).	24°26'15.20"N to 24°26'21.91"N 87°31'54.12"E to 87°32'02.03"E



243 Page
DISTRICT MINING OFFICER,
DUMKA

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



S. No	Village	Name of the Lessee	Address & Contact No. of Lessee	Area of Mining Lease (Acres)	Address of the Mining Lease	Location of the Mining lease (Latitude & Longitude)
CIRCLE - KATHIKUND (TOTAL MINE-1)						
23	Dalahi	Dani Nath Stone	Shri Jata Shankar Sahay, purana A.N. College Campus. Dudhani, Dumka, Jharkhand-814101	3.75 acre	Village- Dalahi, P.S.- Kathikund, District- Dumka, Jharkhand, 04,05,06(P), 12,13	24°23'7.93"N to 24°23'12.60"N 87°28'41.76"E to 87°28'50.49"E



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**DISTRICT MINING OFFICER -
 DUMKA**

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



20 DETAILS OF ECO-SENSITIVE AREA

As per the Gazette Notification issued by MoEF & CC, there is no any Eco-Sensitive area falls in Dumka district.

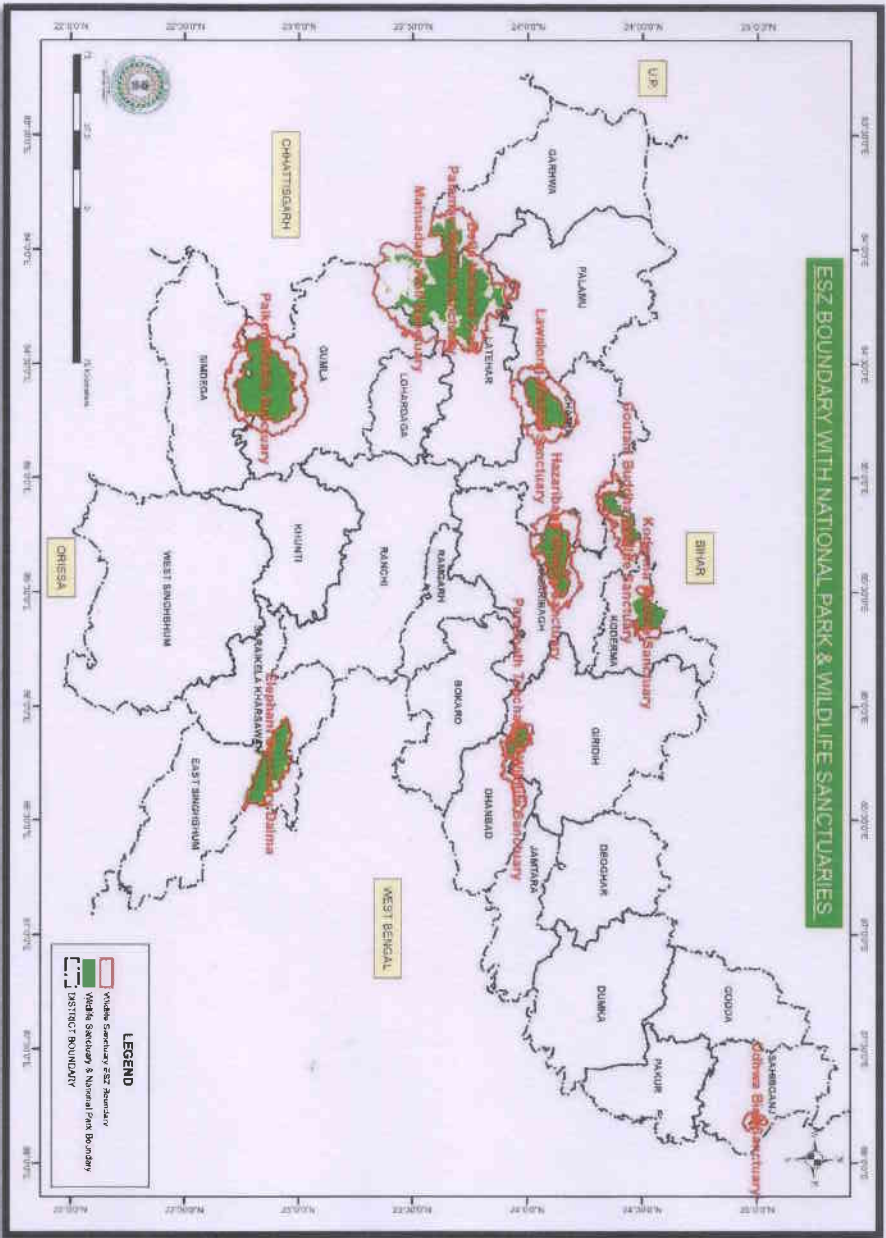


Figure 20-1 :- Eco-Sensitive area Map



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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</p> <ul style="list-style-type: none"> • Drilling • Blasting • Crushing • Transportation on haul road or unpaved road. • Operation of mining equipment 	<ul style="list-style-type: none"> • 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 & approach road will be done. • Use of personal protective equipment like dust mask. • Ambient air pollution monitoring will be carried out.
<p>Water Environment</p> <ul style="list-style-type: none"> • Surface Water • Ground Water 	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • 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 & grease may not contaminate water quality.



(Signature)
DISTRICT MINING OFFICER
 DUMKA Page

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



<p>Noise Level</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>	<ul style="list-style-type: none"> • 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>Land Environment</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>	<ul style="list-style-type: none"> • 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 & 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 & 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 & grease may not contaminate soil quality.



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DUMKA age

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



<p>Biological Environment</p>	<p>All the leasehold area is barren. Hence, impact on biological environment is not expected. Mining Activities are likely to Impact on Bio-Diversity of the region as: Habitat Destruction Ecosystem Disruption Damaging</p>	<ul style="list-style-type: none"> • 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. <p>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 & its operation such mitigation measures are given below;</p> <ul style="list-style-type: none"> • Mine sites are selected considering siting criteria prescribed by Government (JSEIAA/ JSPCB/MOEF & 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 the lessee at project cost in consultation with the concerned Divisional Forest Officers
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[Signature]
DISTRICT MINING OFFICER
DUMKA Page

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



<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>	<ul style="list-style-type: none"> • 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>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>	<ul style="list-style-type: none"> • 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.



[Signature]
DISTRICT MINING OFFICER
DUMKA
 Page

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



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.</p> <p>Dust Generation due to</p> <ul style="list-style-type: none"> • Drilling • Blasting • Crushing • Transportation on haul road or unpaved road. • Operation of mining equipment 	<ul style="list-style-type: none"> • 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 & approach road will be done. • Use of personal protective equipment like dust mask. • Ambient air pollution monitoring will be carried out.
<p>Water Environment</p> <ul style="list-style-type: none"> • Surface Water • Ground Water 	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • 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 & grease may not contaminate water quality.



[Signature]
DISTRICT MINING OFFICER
DUMKA | Page

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



<p>Noise Level</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>	<ul style="list-style-type: none"> • 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>Land Environment</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>	<ul style="list-style-type: none"> • 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 & 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 & 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 & grease may not contaminate soil quality.



(Signature)
25/11/2024
**DISTRICT MINING OFFICER,
DUMKA**

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



<p>Biological Environment</p>	<p>All the leasehold area is barren. Hence, impact on biological environment is not expected. Mining Activities are likely to Impact on Bio-Diversity of the region as: Habitat Destruction Ecosystem Disruption Damaging</p>	<ul style="list-style-type: none"> • 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. <p>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 & its operation such mitigation measures are given below;</p> <ul style="list-style-type: none"> • Mine sites are selected considering siting criteria prescribed by Government (JSEIAA/ JSPCB/MOEF & 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. • 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.
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252/P

 DISTRICT MINING OFFICER
 DUMKA

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



		<ul style="list-style-type: none"> 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
Socio-economic Environment	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.	<ul style="list-style-type: none"> 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.
Impact on Agriculture	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.	<ul style="list-style-type: none"> 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.



[Signature]
DISTRICT MINING OFFICER
DUMKA



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.




DISTRICT MINING OFFICER
DUMKA



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

- 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.




DISTRICT MINING OFFICER
DUMKA

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



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 - Hazard Identification & Risk Analysis in Stone Mining operation

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



**DISTRICT MINING OFFICER,
DUMKA**

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



2	Flood	All identified potential areas are away from river. Proper arrangement for dewatering of quarry during the monsoon period.	Very Unlikely
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Risk & its Preventive Measures:

Sl. No.	Hazards	Preventive Measures
1	Face Stability 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"> • Overall slope angles of benches will be maintained at 45° • Unmanageable heights are not created • Loose sides are properly dressed • 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) • No undercutting of any face or sides will be permitted so as to cause any overhanging (Regulation 106(5) of MMR 1961)
2	Drilling Operations	
2.1	Falls from the edge of a bench While the primary hazard is that of the driller falling over the edge of a 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. 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.	<ul style="list-style-type: none"> • It will be ensured that the drilling equipment is suitable for the job. • 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. • Provision of portable rail fencing between the drilling operations and the edge of the bench • Provision to attach a safety line to the drilling rig and provide a harness for the driller to wear. • Restricted access to the area to all persons except those necessary for the drilling operation.
2.2	Dust generation during drilling The hazard is the inhalation of dust which is created during the drilling operation.	<ul style="list-style-type: none"> • Wet drilling will be carried out by constantly injecting a jet of water at the drill bit inside the hole, which prevents dust generation • In case due to any reason, wet drilling is not possible (due to non-availability of water) exhaust/ vacuum system will be provided



**DISTRICT MINING OFFICER,
DUMKA**

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



		<p>which removes the dust from the drill hole continuously and discharges the same in a dust collector specially provided for the purpose.</p> <ul style="list-style-type: none"> • Drilling machine shall be fitted with dust suppression, collection and disposal arrangement • Deep wetting of drilling zones will be done by water sprinkling before starting drilling.
<p>2.3</p>	<p>Noise Generation during drilling 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 noisy area. In most cases this will be the drill operator.</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>
<p>3.0</p>	<p>Blasting Operations 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"> • Blast hole geometry shall be properly designed. • Blast site shall be wetted before and after blasting operations are completed. • 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. • Blasting shall be conducted only during favorable weather conditions and only during the day time and permissible hours. • 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



[Signature]
25/01/2024
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District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Dumka District, Jharkhand.



4.0	<p>Health Hazards</p> <p>Health hazards should be interpreted as being harmful dust and noise which is emitted during surface mining operations.</p>	<p>area and take appropriate precautions.</p> <ul style="list-style-type: none"> The vibrations should be monitored periodically in consultation with the local Mining authorities. All suitable steps and precautions will be undertaken to ensure minimum health hazard. Provision of use of Personal Protective Equipment (PPE) will be kept.
5.0	<p>Accident at Site</p> <p>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"> Rough access roads Time pressure Inadequate brakes (Possibly from lack of maintenance) Carelessly parked vehicles (e.g., being parked on a slope without being adequately secured) Untrained drivers Overturning vehicles 	<ul style="list-style-type: none"> 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.
6.0	<p>Transportation</p> <p>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"> Mine road shall be made smooth regularly with a road roller. Mine road will be cleaned daily to remove fallen rock/stones for smooth transportation. Mine road will be made sufficiently wide to keep two-way traffic. Mine roads will be designed as per the specifications given under MMR 1961. Regular water sprinkling will be done on mine road and haul road to avoid suspension of dust. All transportation within the mine lease area should be carried out directly under the supervision and control of management. The vehicles will be maintained in good working condition and checked thoroughly at least once a



DISTRICT MINING OFFICER
DUMKA

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



			<p>month by the competent person authorized for the purpose by the management.</p> <ul style="list-style-type: none"> • Navigation signs will be provided at each and every turning point up to the main road (wherever required) • To avoid danger while reversing the vehicles especially at working place/loading points, stopper should be posted to properly guide reversing/spotting operating. • Only trained drivers will be hired
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Natural Risk Assessment and Its preventive measure.

Sl.No.	Particular	Risk	Preventive Measures
1.	Natural	Flood Flooding of opencast working 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 prodded for preventing flooding of quarry.
2	Natural	Earthquake 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.	Natural	Land slide 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"> • Proper slope to be provided to advancing bench of the mine • Proper slope (45° - 50°) to be provided for terminal slope to the quarry • External dump has to be properly planned with proper side slope to prevent slope failure. • External dump should be located on a stable ground with load bearing • capacity to support load of external dump. • External dump should be proper drainage plan to prevent building up of internal hydraulic pressure.



DISTRICT MINING OFFICER,
DUMKA

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



4.	Electrical	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.	Fire	Operation of mine requires use of electrical power & diesel oil. Use of electrical power & oil may cause Fire.	<ul style="list-style-type: none"> • Safe storage of diesel. • No Smoking Zone. • Maintenance of electrical wires • The electrical cables with PVC sheath to prevent overheating and fire. • The cables should have wire with appropriate size of core to carry required current. • Provision for fire alarm and arrangement for firefighting appliances.

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 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.



[Signature]
DISTRICT MINING OFFICER
 DUMKA

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



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




DISTRICT MINING OFFICER
DUMKA

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



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 21st 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 21st 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



DISTRICT MINING OFFICER.

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



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- 152, dated-13.09.2024, following table shows the no. of patient of Silicosis and Tuberculosis in Dumka district for 6 years (2019- 2024).

S.No	Year	No. of patient of Silicosis and Tuberculosis	
		Silicosis	Tuberculosis
1	2019	0	3225
2	2020	0	2700
3	2021	0	3065
4	2022	0	3231
5	2023	0	3391
6	2024	0	2409



DISTRICT MINING OFFICER
DUMKA

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



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. Neem, Sheesham, Aam, Sal, Arjun, Teak, Mahua, Ashoka, Jamun, Pipal, Banyan etc. are some important plants commonly planted in mine site of Dumka district. It is proposed to have a detailed record of plantation to be kept by the respective owner/agent/manager of the mine every year, which has been planted in the safety zone area and transport rout, which is statutorily required. As per the norms of the forest department, the plantation has to be carried out at the rate of **1600 local plants per hectare** and along the road side, at an interval of 2 meters in the zig-zag manner in both sides.

Table given below show the current status of plantation in terms of proposed number of plants vis-e-vis the actual plantation done by lessee.

Sl NO	Stone Mines	Address of Mines	Status of Mines	Area of Mines(ha)	Total plantation as per Guidelines	No of plantation at site	Difference
1	Shri Parasnath Heights Pvt Ltd	MOUZA - DALDALIPO - DALDALI, BLOCK & P.S. - SHIKARIPARA, DISTRICT- DUMKA, STATE- JHARKHAND	Working	2.11	1114	120	994
2	Shri Mannul Islam	MOUZA - KENDPAHARI, BLOCK & P.S - SHIKARIPARA, DISTRICT- DUMKA, STATE- JHARKHAND	Working	2.17	1145	195	950
3	M's Raksha Kail Stone Works	Mouza - AHRICHUWAN, Block & P.S - GOPIKANDAR, P.O - KARUDIH, DISTRICT- DUMKA, STATE- JHARKHAND	Non working	1.66	1404	155	1249
4	M's Sreee Sreee Stone Works	Village- Sahapur, Thana- Shikarpura, Thana No - 12 District- Dumka, State- Jharkhand	Non working	2.97	1568		1568




DISTRICT MINING OFFICER
DUMKA

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



5	M/s Maa Kali Stone	MOUZA & PANCHAYAT- MUSNA, P O - DHARAMPUR, P.S - GOPKANDAR, DISTRICT - DUMKA, STATE- JHARKHAND	Non working	2.46	1304	110	1194
6	M/s Raksha Kali Stone Works	MOUZA & PANCHAYAT- MUSNA, P.O. - DHARAMPUR, P.S - GOPKANDAR, DISTRICT - DUMKA, STATE- JHARKHAND	Non working	2.95	1595	110	1485
7	Sri Utpal Kumar Sen	MOUZA - PINDARGARIA, THANA - GOPKANDAR, THANA NO. -49, DISTRICT - DUMKA, JHARKHAND	Working	2.26	1193	60	1133
8	M/s R.S.S Stone Works	MOUZA- RAMBANI, BLOCK & P.S. - GOPKANDAR, P.O. - DHARAMPUR, DISTRICT - DUMKA, STATE- JHARKHAND	Working	1.73	913	50	863
9	Sri Arun Kumar Saha	MOUZA- PAHARPUR, P.O. - BENAGARIA, P.S.-SHIKARIPARA, DISTRICT - DUMKA, STATE- JHARKHAND,	Non working	1.61	850	Operation yet not started	850
10	M/s S.P Stone Works	MOUZA- RAMBANI, BLOCK & P.S. - GOPKANDAR, P.O. - DHARAMPUR, DISTRICT - DUMKA, STATE- JHARKHAND.	Non working	1.97	1040	Operation yet not started	1040
11	Sri Amardeep	Mouza - Shiyajpahari, P.S. - Shikaripara, Dist - Dumka, State - Jharkhand	Non working	2.43	1283	Operation yet not started	1283
12	Sri Amardeep	Mouza - Shiyajpahari, P.S. - Shikaripara, Dist - Dumka, State - Jharkhand	Non working	2.38	1256	Operation yet not started	1256
13	Sri Sunil Kumar mandal	Mouza - Lowapara , P.O. - Benagaria, Block & P.S. - Shikaripara, Dist - Dumka, State - Jharkhand ,	Non working	1.76	929	120	809
14	M/s Varun Singh Sisodia Private Limited	Mouza - Lakhibad, Block - Gopikander , P.S - Gopikander , Dist - Dumka, State - Jharkhand,	Non working	1.78	939	Operation yet not started	939
15	Sri Parasnath Industries	MOUZA- SALBONA PAHAR, PANCHAYAT- SAHARPUR, P.O. - BENAGARIA, P.S. - SHIKARIPARA, DISTRICT- DUMKA, STATE- JHARKHAND	Non working	2.34	1235	Operation yet not started	1235
16	Sri Santosh Kumar Dan	Mouza- Paharpur, P.O. - Benagaria, Block+P.S. - Shikaripara, District - Dumka, Jharkhand	Non working	1.2	633	50	513



**DISTRICT MINING OFFICER,
DUMKA**

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



17	M/s Jai Maa Tara Stone Product	Village- Saharpur, Thana- Shikaripara, Thana No.- 12, District- Dumka, STATE- JHARKHAND	Non working	2.73	1441	120	1321
18	M/s R A N Enterprises	Village - Jitpur, P.O.- Dharampur, P.S. - Gopikandar, District- Dumka State - Jharkhand,	Working	2.65	1399	95	1244
19	M/s Laktinrayan Stone Works	Village - Lakhtbad, P.O.- Ranga Mission, P.S. - Gopikandar, District - Dumka, State - Jharkhand,	Working	1.53	807	55	752
20	Sri Pratyusd har Jha	Village - Pokharia, P.S. - Shikaripara, District- Dumka State - Jharkhand	Working	2.31	1219	50	
21	Shri Mahesh Yadav	Village - Pahar Aamchuwa, P.S. - Shikaripara, District- Dumka State - Jharkhand	Working	1.81	955	220	1169
22	M/s Vishnu Stone Enterprises	Village - Kustum Ghati, P.S. - Shikaripara, District- , Dumka State - Jharkhand	Working	1.63	860	150	710
23	M/s Manmo de Minerals Pvt. Ltd.	Village - Manjhiadih, P.S. - Shikaripara, District- Dumka State - Jharkhand,	Working	1.64	865	10	855
24	M/s Pragati Infra	Village - Manjhiadih, P.S. - Shikaripara, District- Dumka State - Jharkhand,	Working	1.4	739	50	689
25	Sri Soi Mandal	Mouza - Musna, P.O. - Dharampur, P.S. - Gopikandar, District - Dumka, State - Jharkhand	Working	1.95	1029	55	974
26	M/s Supreme Stone Mine	Mouza - Salbonapahar PS - Shikari Para, District - Dumka, State - Jharkhand	Working	1.42	749	25	724
27	Sri Fadar Ansari lease transfer to M/s Bansidh ar Construction Private Limited	Mouza - Kusumghati, P.O. & P.S - Shikaripara, Dist - Dumka, Jharkhand	Working	2.94	1552	60	1492
28	M/s Rajbir Construction Pvt. Ltd	Mouza - Kendapahari, Panchayat - Jhunki, P.S - Shikaripara, District - Dumka, State - Jharkhand,	Working	2.91	1536	50	1486
29	Sri Anil Prasad Singh	Mouza - Pokharia, P.O. - Benagaria, P.S - Shikaripara, District - Dumka, State - Jharkhand,	Working	2.98	1573	85	1488
30	Md. Abous Salam Ansari	Village - Paharpur, P.O. - Benagaria, P.S. - Shikaripara, Dist - Dumka, Jharkhand	Working	1.39	733	85	648



DISTRICT MINING OFFICER
DUMKA

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



31	M/s K. K. stone	MOUZA - POKHARIA, PO - BENAGARIA, PO - SHIKARIPARA, DUMKA, JHARKHAND	Working	2.98	1573	185	1388
32	Shri William Rituraj	MOUZA - POKHARIA, PO - BENAGARIA, PO - SHIKARIPARA, DUMKA, JHARKHAND	Working	2.96	1562	100	1462
33	Sri Ravindra Nath Chand	MOUZA - SUGARAHARI, THANA - GOPIKANDAR, THANA NO - 41, DISTRICT - DUMKA, JHARKHAND	Working	2.69	1420	95	1325
34	Sri Ravindra Nath Chand	Mouza - Pindargaria, Thana - Gopikandar, Thana No. 49, District - Dumka, Jharkhand	Non working	2.5	1320	50	1270
35	M/s Agrima Intra Enginee ring Pvt.Ltd.	Village-Kusumghati, P.S - Shikaripara, Anchal- Shikaripara, District- Dumka, Jharkhand	Non working	1.04	549	Operation yet not started	549
36	M/s Agrima Intra Enginee ring Pvt.Ltd	Village-Kusumghati, P.S- Shikaripara, Anchal- Shikaripara, District- Dumka, Jharkhand	Non working	2.12	554	Operation yet not started	544
37	Shri Dilip Kumar Modi	MOUZA - LOWAPARA, PANCHAYAT- SAHARPUR, P.O. - PAKDAH, P.S. -SHIKARIPARA (NO. -03), DISTRICT - DUMKA, STATE -JHARKHAND.	Working	1.87	987	120	867
38	Shri Bheru Lal Sharma	MOUZA - AAMCHUWAN, P.O. - BENAGARIA, P.S. -SHIKARIPARA, DISTRICT- DUMKA, STATE- JHARKHAND.	Working	2.83	1494	185	1310
39	M/s Tridev Engicon Pvt. Ltd.	MOUZA - RAMBANI, BLOCK & P.S - GOPIKANDAR, P.O. - DHARAMPUR, DISTRICT- DUMKA, STATE -JHARKHAND	Working	2.43	1283	285	998
40	Shree Deepak Raj	MOUZA- RAMBANI, BLOCK & P.S - GOPIKANDAR, P.O. - DHARAMPUR, DISTRICT- DUMKA, STATE- JHARKHAND	Non working	2.83	1494	Operation yet not started	1494
41	M/s Baba Stone	MOUZA- RAMBANI, BLOCK & P.S - GOPIKANDAR, P.O. - DHARAMPUR, DISTRICT- DUMKA, STATE- JHARKHAND.	Working	2.97	1568	50	1518



DISTRICT MINING OFFICER.
DUMKA

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



42	Shri Sujeet Kumar Singh	MOUZA- SALBONA PAHAR, PANCHAYAT - SAHARPUR, PANCHAYAT - SAHARPUR, P.O. - BENAGARIA, P.S.- SHIKARIPARA, DISTRICT- DUMKA, STATE- JHARKHAND	Non working	2.83	1494	120	1374
43	M/s Adity Stone	MOUZA & PANCHAYAT- MUSNA, P.O. - DHARAMPUR, P.S. - GOPKANDAR, DISTRICT- DUMKA, STATE- JHARKHAND	Working	2.6	1372	120	1252
44	Shri Maadhur endra Jha	MOUZA - LABAPARA, P.O.- PAKDAH, P.S.- SHIKARIPARA, DISTRICT- DUMKA, STATE- JHARKHAND	Non working	1.62	855	Operation yet not started	855
45	Shri Pankaj Kumar Mandai	MOUZA- RAMPUR, P.O.- RANGAMISSION, P.S.-Tehsil - GOPKANDAR, DISTRICT- DUMKA, STATE- JHARKHAND,814103	Non working	0.99	522	60	462
46	M/s Rajah Mining Corporation	Kantapahar', Thana-Shikaripara, District- Dumka, Mauza Jharkhand	Working	1.93	1019	200	819
47	Shri Kaushal Kishore Singh & Shri Harinan dan Choudhary	Village- Saharpur, P.S.- Shikaripara, District- Dumka, Jharkhand	Working	1.137	596	100	496
48	Dani Nath Stone	Village- Dalahi, P.S.- Kathikund, District- Dumka, Jharkhand	Working	1.51	797	20	777
49	Sri Haradha n Verma	Village - Salbonapahar, P.O. - Benagariva, P.S. - Shikaripara, Dist.-Dumka, Jharkhand	Working	1.38	728	25	703
50	Smt Mini Hansda	Village - Salbonapahar, P.O. - Benagariva, P.S. - Shikaripara, Dist.-Dumka, Jharkhand	Non working	1.87	987	60	927
51	V/R Minerals	Village - Benagariva, P.S. - Shikaripara, Dist.-Dumka, Jharkhand,	Non working	2.49	1314	Operation yet not started	1314

Out of 51 leases total 28 number of mines are operational at the time of preparation of District Survey Report, Rest 23 mines will follow strict plantation rule.

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..



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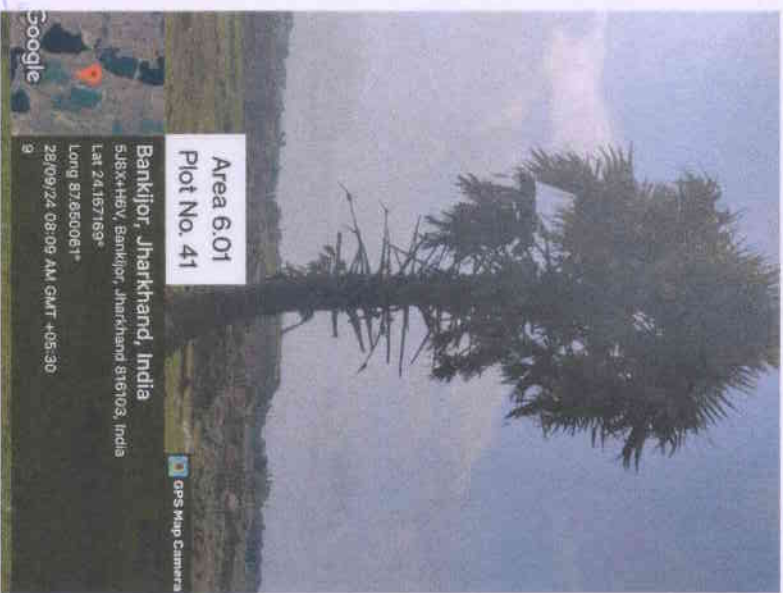
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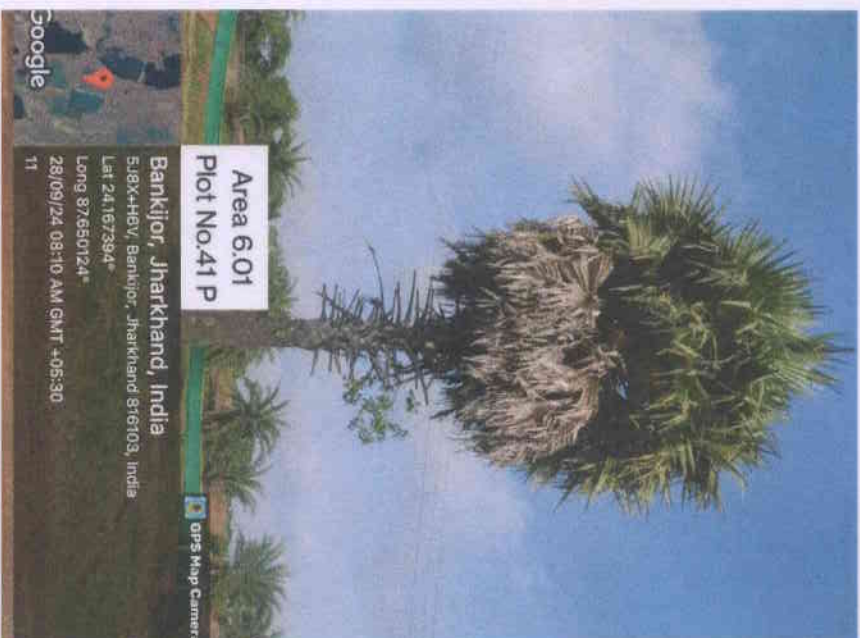
District Survey Report for Minor Minerals other than Sand Mining or River- bed Mining for Dumka District, Jharkhand.



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



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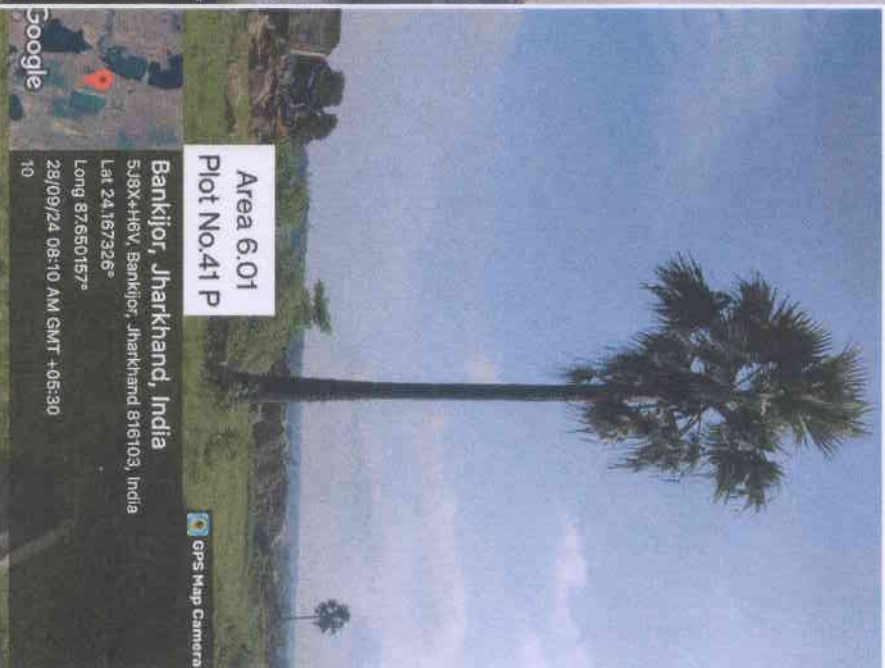
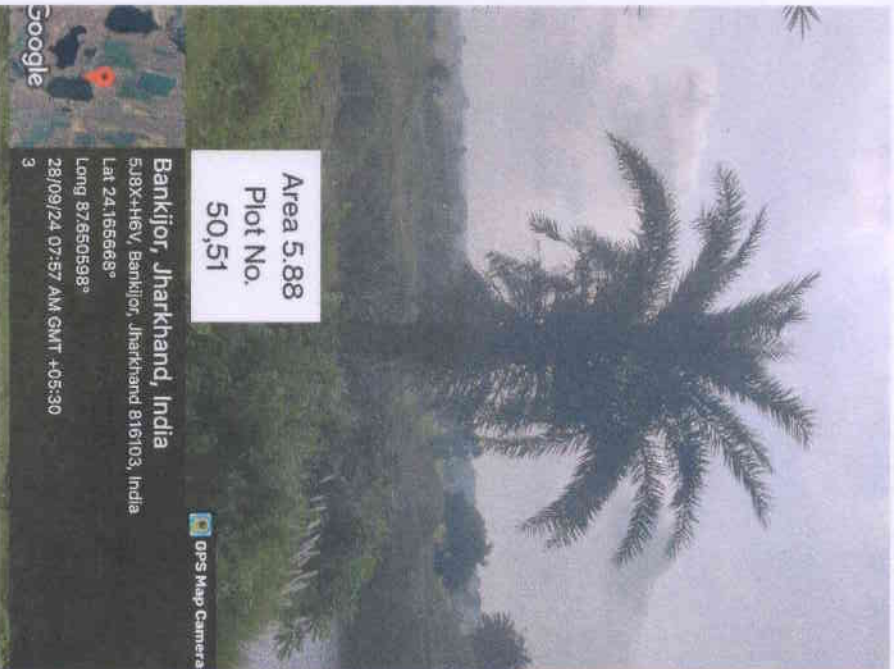
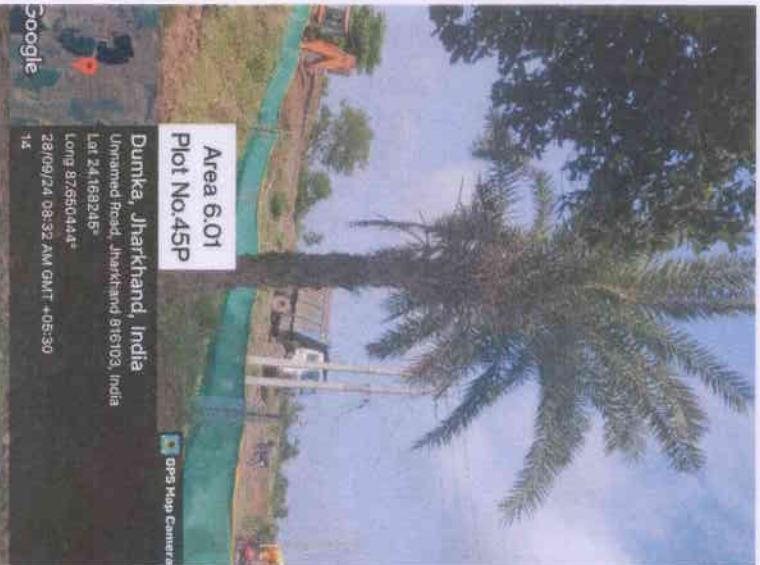
District Survey Report for Minor Minerals other than Sand Mining or River-bed Mining for Dumka District, Jharkhand.



273 | Page

DISTRICT MINING OFFICER,
DUMKA

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



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



DISTRICT MINING OFFICER
DUMKA Page

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



27 ADDITIONAL INFORMATION

27.1 Details of Identified Potential Stone Deposits:

S. No	Grant Date	Lease Applicant	Block	Village	Plot No.	Area (In Acre)	Letter no. and Dated
1	31.10.2019	Anantdhara Construction Pvt. Ltd. Director-Shri Deepak Kumar Singh, Father- Shri R.K Singh Add.- Ravindrath, Ranchi Patna Road, P.O+P.S-Sadar Hazaribagh, District- Hazaribagh	Shikaripada	Paharpur	1168, 1171	4.45	Letter no 1331 Date 04-11-2019
2	25.07.2020	Shri Baidyanath Rai, Father- Late Lakan Rai, Village- Manjirabadi, P.O- Ranga mission, Thana- Jama, Dist- Dumka	Gopikander	Amarpur	637, 638, 639, 641, 642, 643, 644	5.6	Letter no. 1250 Date 28-07-2020
3	25.07.2020	M/S Maa Stone Product, Partner- Shri Arjun Mandal, Father- shri Sharat Chandra Mandal Village- Chapudia, P.O-Asanbani, Dist- Dumka 2. Shri mahendra poddar, Father- Sumeshwar Poddar, Village+P.o- Dewcha, Thana- modh. Bazar. Dist- Veerhnm(W.B) 3. Shri Sanjeev Dey, Father- Raghunath Dey, Village+P.O+P.S- Rameshwar, Dist- Dumka	Shikaripada	Kulkulidanganal	517, 518, 519, 521(P)	3.47	Letter no. 1251 Date- 28.07.2020



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DUMKA

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



S. No	Grant Date	Lease Applicant	Block	Village	Plot No.	Area (In Acre)	Letter no. and Dated
4	12.10.2019	Shri Rajesh Kumar Father- Late Ranji Prasad Bhagat, Add. - Harimati Apartment, Beside Hotel Green Park, Lalpur, Thana- Lalpur, Dist.- Ranchi, Jharkhand, 834001	Gopikander	Chotabathan Pahari	141(P), 142(P), 143, 148(P), 149(P), 150(P)	6.92	Letter no. 1247 Date- 16.10.2019
5	16.06.2020	M/S Mebaad Enterprises, Prop- Om Prakash Sharma, Father- Shri Dal Chandra Sharma, Present Add.- Village- Pinargadiyan, P.O- Benagadiyan, Thana- shikaripada, Dist- Dumka, Permaeant Add.- Village- Gadri Mohalla, Tehsil- RAMPUR, Dist- Bhlwara-311801	Shikaripada	pokharia	1242(P)	3.1	Letter no. 941 Date- 18.06.2020
6	27.05.2021	Shri Ramrup Bhagat, Father- Late Baidyanath Bhagat, Village- Teliyachak bazar, P.O- Kothkund, Thana- Kathikund, Dist- Dumka	Gopikander	Rambani	55(P), 60(P)	6.76	Letter no. 758 Date- 31-05-2021
7	11.03.2024	Mohd. Abdul Minan Ansari, FATHER- Junus Miyan, Village+p.o- Sarasdangal, thana- Shikaripada, Dist- Dumka	Shikaripada	Baramsiyan	1813, 1814, 1815, 1816, 1818, 1822, 1823, 1824, 1825,	4.09	Letter no. 276 Date- 12-03-2024
8	11.03.2024	Shristi Stone Works, Shri Dharmendra Kumar Singh, Father- Shri Ramnad Singh,	Shikaripada	Manjiladih	1376, 1377(P), 1378, 1379, 1395(P)	4.47	Letter no. 311 Date- 13-03-2024

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DUMKA

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



S. No	Grant Date	Lease Applicant	Block	Village	Plot No.	Area (In Acre)	Letter no. and Dated
		Permanent ADD,- 50/M Colony, Rajendranagar,P.O +P.S- Madhubani, Dist- Purnia, Bihar,854301 Present add:- Village+P.O+P.S- Shikaripada , Dist- Dumka,816118					
9	22.06.2024	Choto Budhrai Hansda, Father- Sidho hansda, Village- Mohalbana,P.O- Pakdaha,thana- Shikaripada, Dist- Dumka	Shikaripada	Salbona Pahar	137(P), 140(P), 141(P), 142(P),	6.12	Letter no. 719 Date- 22-06- 2024
10	27.06.2024	M/S Rudra minerals Prop- Shri Amar Mandal, Father- Late Ramnarayan Mandal, Village- Sezakoda, P.O+P.S.- Jama , Dist.- Dumka	Shikaripada	Chirapath ar	445, 425(P), 435, 437, 441(P), 442(P), 426, 433, 434, 438, 439, 440(P), 481, 482, 483, 428, 436, 484, 485,	3.66	Letter no. 725 Date- 27-06- 2024
11	27.06.24	M/S Rudra minerals Prop- Shri Amar Mandal, Father- Late Ramnarayan Mandal, Village- Sezakoda, P.O+P.S.- Jama , Dist.- Dumka	Shikaripada	Chirapath ar	489, 490, 491, 492, 499, 502, 503, 504, 507, 508, 509, 510, 514, 515, 516(P), 517(P), 518(P), 519(P), 520(P), 1065, 1066	4.66	Letter no. 723 Date- 27-06- 2024
12	27.06.2024	M/S East India Stone Quarry, Prop.- Imran Khan Village+P.O- Asanbali, Thana- Raneshwar, Dist- Dumka	Saraiyahaat	Chorbaity a	43/47, 45/50, 46/51, 47/47, 48/51, 3/10, 4/11, 8/9, 9/1, 2/2, 3/2, 4/2	5.64	Letter no. 733 Date- 28-06- 2024
13	27.06.2024	M/S Baba Basukinath Traders, Prop- Shri Santosh Kumar.Father- Shri Anandi Singh, Permanent add-	Shikaripada	Aamchua	632, 640(P), 641, 642, 643, 644, 645, 646(P), 647(P), 648, 649, 650, 651, 656(P), 657(P)	5.3	Letter no. 729 Date- 28-06- 2024



280 Page
DISTRICT MINING OFFICER,
DUMKA

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



S. No	Grant Date	Lease Applicant	Block	Village	Plot No.	Area (In Acre)	Letter no. and Dated
		Gram+p.o- Sonkurtha, Thana- Jamui, Dist- Jamui (Bihar).811307 Present add- Ghat Rasikpur, Dudhani, Near UCCO Bank, P.O+Thana - Dumka					
14	28.06.2024	M/S Baba Basukinath Traders, Prop- Shri Santosh Kumar.Father- Shri Anandi Singh, Permanent add- Gram+p.o- Sonkurtha, Thana- Jamui, Dist- Jamui (Bihar).811307 Present add- Ghat Rasikpur, Dudhani, Near UCCO Bank, P.O+Thana - Dumka	Shikaripada	Salbona Pahar	255(P)	3.8	Letter no. 739 Date- 29-06- 2024
15	29.06.2024	Limeswood Construction Pvt. Ltd. Director- Avinash Kumar.Father- Shri Sudeshwar Singh, Shri Ajeet Kumar Singh, Bhurhura More, Rekhia Road , Deoghar, Jharkhand 814112 Permaent add.- Ranipur, P.O- Korara, Paliganj, Dist- Patna, 804401 2. Sanjay Kumar Singh, Father-Shri Thakur Lalan Prasad Singh, Address-Flat No.- 402 A, Jagsuman Apartment, Aryan Nagar, Kathal Mod Road, Purnnag,	Shikaripada	Hathbadi	1, 2, 3, 4(P), 6, 7, 8, 10 11, 12, 13, 14, 15, 16(P), 17(P), 18, 19, 20, 23, 24, 25, 26, 28(P), 30(P), 31(P), 32(P), 35(P), 42(P)	6.9	Letter no. 775 Date- 06-07- 2024



**DISTRICT MINING OFFICER,
DUMKA**

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



S. No	Grant Date	Lease Applicant	Block	Village	Plot No.	Area (In Acre)	Letter no. and Dated
		District-Ranchi, Jharkhand 834002. 3. Om Prakash Sharma, Father-Shri Dalchandra Sharma, Village + P.O. - Ashaholi, Police Station- Raipur, District- Bhelbara, Rajasthan 311801					
16	29.06.2024	Mr. Shubham Keshari Father-Mr. Dilip Keshari Village- Veniyagram P.O. Dakhalwadi, Police Station Bhadgram District-Virbhum (W/B)	Shikaripada	Salbona Pahar	147/part	7.27	Letter no. 748 Date- 01-07-2024
17	30.06.2024	mitoon ansari father islam neo Charn Post Sarsantgal, Police Station Shikaripada, District Dumka.	Shikaripada	Salbona Pahar	144, 147(P)	5.4	Letter no. 751 Date- 03-07-2024
18	04.07.2024	M/s Rudra Minerals, Prof. Shri Amar Mahal. Father Late Ramnarayan Mandal Village Sejakoda, Post Police Station Jana District Dumka	Shikaripada	Ranjiam	515, 520	6.34	Letter no. 771 Date- 05-07-2024
19	05.07.2024	Part-Deepak Kumar Singh, Father - Late Rajeswari Singh Village + PO - Shikarimada, Police Station - Shikaripara 2. Josa Kisku, Father Late Hopna Kisku, Village - Manjladh P.	Shikaripada	Manjhladh	718, 719, 720, 721(p)	3.27	Letter no. 780 Date- 06-07-2024

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**DISTRICT MINING OFFICER,
DUMKA**

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



S. No	Grant Date	Lease Applicant	Block	Village	Plot No.	Area (In Acre)	Letter no. and Dated
20	06.07.2024	Benagadia Police Station Shikaripara District of both - Dumka.	Shikaripada	Manjhladi h	1374, 1384, 1385(P), 1388, 1389	4.48	Letter no. 788 Date- 09-07-2024
21	06.07.2024	M/s Baba Baidyanath Stone Works Part - Mrs. Priya Raj, Father-Nithalu Prasad, Village- Thadivulampur, Po-Devsandh Thatta-Kunda, District-Devgar. 2. Mohd. Anwarul Ansari, Father- Hannas Asari, Village-Toid, P.O Police Station- Hirampur District- Pakud, Jharkhand- 816104	Shikaripada	Chandana gadiya	933, 938, 939, 940, 941/Part and 942	6.99	Letter no. 786 Date- 09-07-2024




DISTRICT MINING OFFICER.
DUMKA

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



S. No	Grant Date	Lease Applicant	Block	Village	Plot No.	Area (In Acre)	Letter no. and Dated
		Nezrul Hussain, Village PO- Sarasdangal, Police Station-Shikaripara, District-Dumka.					
22	06.07.2024	Shri Dipesh Kumar, Father- Shri Dhananjay Kumar Das, Village- Khushbandh, Near Durga Temple, P.O Police Station- Dumka, District-Dumka 814101	Gopikander	rambani	369/ part	6	Letter no. 787 Date- 09-07- 2024
23	09.07.2024	Mr. Ritesh Kumar, Father - Mr. Dhananjay Kumar Das, Village- Khushbandh, Near Durga Temple, P.O. Police Station- Dumka, District- Dumka 814101	Gopikander	pindargad ia	195, 196	4.98	Letter no. 793 Date- 09-07- 2024
24	12.07.2024	Jyoti Construction and Engineering Pvt. Ltd. Director - Mr. Ranjit Kumar, Father - Mr. Ram Yash Rai, Mr. Surjeet Kumar, Father - Late Ram Vandan Singh, Address of both - House No. A/3, Vivekananda Park Lane, ASI Patliputra Colony, Patna. 800013	Shikaripada	salbona pahar	159/part, 160, 161/part and 162	5.06	Letter no. 825 Date- 15-07- 2024
25	12.07.2024	M/s East India Stone Quarry, 2 Prop. Imran Khan,	Saraiyahaat	Chorbatia	44/49, 59/67, 61/69, 62/70, and 63/71	3.6	Letter no. 824



784
DISTRICT MINING OFFICER
DUMKA

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



S. No	Grant Date	Lease Applicant	Block	Village	Plot No.	Area (In Acre)	Letter no. and Dated
		Village P.O.- Asanbani, Police Station- Raneshwar, District- Dumka.					Date- 15-07- 2024
26	19.07.2024	Amit Kumar Dokanian Father-Shri Ramesh Kumar Dokanian, Village-Sabji Mandi Road, P.O Police Station- Barharwa, District- Sahebganj	Shikaripada	Chandana gadiya	39, 40, 44, 46, 47, 48, 49, 50, 51 and 52	7.4	Letter no. 844 Date- 20-07- 2024
27	20.07.2024	Mohd. Alam Ansari Father- Mohd. Ghulam Ansari Village-Kalakada, P.O.-Pajor, Police Station-Raneshwar, District-Dumka.	Shikaripada	salbona pahar	240, 241, 242, 247 and 248	5.8	Letter no. 915 Date- 06-08- 2024
28	15.07.2024	Shri Balaji Stone and Minerals Project (O.P.), Pvt. Ltd., Director Shri Nayan Kumar Mandal, Father - Late Dulal Mandal, Village Post - Kathalia, Police Station Masliya, District - Dumka.	Shikaripada	Paharpur	957/part, 1223, 1224, 1225/part, 1227/part, 1231, 1234, 1236 and 1237	7.37	Letter no. 837 Date- 19-07- 2024
29	19.07.2024	Shri Vijay Prasad Bhagat, s/o Late Sudama Prasad Bhagat, Village-Kharauri Bazar, Post-Kasdih, Thana-Gopikander, District-Dumka.	Gopikander	Chatarchu an	799, 800, 802, 803, 900, 901, 902, 905, 906, 907 and 909	6.65	Letter no. 849 Date- 20-07- 2024
30	18.07.2024	M/s Bol Bam Stone Products Prop. Chandradev Goswami I Father- Shri Bhavataran Goswami Village-Pratappur, P.O-Rajbandh Plassey, Police	Shikaripada	chitragadi ya	412, 413, 414, 415, 417, 418, 419, 420, 433, 434, 435, 436, 437 and 438	2.88	Letter no.846 Date- 20-07- 2024



285 | Page
DISTRICT MINING OFFICER
DUMKA

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



S. No	Grant Date	Lease Applicant	Block	Village	Plot No.	Area (In Acre)	Letter no. and Dated
		Station-Shikaripara, District-Dumka.					
		M/s. Ganpati Stone Works, Part-Shri Sanjay Kumar Mandal, S/o Late Sushil Mandal, Village-Kharauli Bazar, Post-Karudih, Thana-Gopikander, District-Dumka	Gopikander				
31	04.07.2024	Jyoti Construction and Engineering Pvt. Ltd. Director- Mr. Ranjit Kumar, Father- Mr. Ram Yash Rai, Mr. Surjit Kumar, Father- Late Ram Vandan Singh, Address of both - House No. A/3. Vivekananda Park Lane ASI Patliputra Colony Patna 800013	Shikaripada	sugapahari	201/part	3.54	Letter no. 774 Date-05-07-2024
32	15.07.2024	Maa Ambe Stone Products Prop. Shri Ajay Kumar Bhagat, Father Shri Vajinath Bhagat Village PO- Ganpura, Police Station- Pakudiyia, District Pakur.	Shikaripada	salbona pahar	267/Part, 268/Part, 270/Part, 271/Part, 272/Part and 273/Part	6.84	Letter no. 836 Date- 19-07-2024
33	15.07.2024	Maa Ambe Stone Products Prop. Shri Ajay Kumar Bhagat, Father Shri Vajinath Bhagat Village PO- Ganpura, Police Station- Pakudiyia, District Pakur.	Shikaripada	Manjhladi	730, 734, 735, 736, 737, 738, 748/part and 749/part	6.56	Letter no. 839 Date- 19-07-2024



**DISTRICT MINING OFFICER,
DUMKA**

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



S. No	Grant Date	Lease Applicant	Block	Village	Plot No.	Area (In Acre)	Letter no. and Dated
34	15.07.2024	Mr. Rajnesh Gupta, father late Rajendra Prasad Gupta, village Uttarnathpada ward no. post police station Rampurhat, 13, district Birbhum (Pt. No.) 731224	Shikaripada	paudavas uri	828, 829, 830, 831, 832, 833, 869, 870, 871, and 872,	6.88	Letter no. 858 Date-23-07- 2024
35	15.07.2024	Mr. Rakesh Kumar Yadav, father Mr. Anupalal Yadav, Village Aliganj Ward No. 13, Post Police Station District Banka, State Bihar. 813102	Shikaripada	Bhelatand	2258, 2259, 2260/P, 2261, 2262, 2263, and 2264	4.23	Letter no. 838 Date- 19-07- 2024
36	18.07.2024	Shri Ramesh Kumar Dokanian, Father-Late Om Prakash Dokanian, Village-Vegetable Mandi Road, P.O Police Station- Barharwa, District- Sahebganj.	Shikaripada	Chandana gadiya	21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 36, 37, 38, 42 and 43	4.8	Letter no. 845 Date- 20-07- 2024
37	09.07.2024	M/s Satya Construction, Prop. Sheeljit Kumar Singh, Father-Surendra Singh, Village- Shasri Nagar, Bandarjori, P. O. Dumka, District- Dumka.	Shikaripada	Kendpaha ri	917, 918, 919, 920, 921 and 925	3.01	Letter no. 818 Date- 13-07- 2024
38	24.07.2024	Islam Miyan Father-Sohrab Miyan, Village- Shaharpur, P.O.- Benagadiya Police Station-Shikaripara, District-Dumka.	Shikaripada	salbona palhar	138, 139 and 147/ part	7.39	Letter no. 902 Date- 05-08- 2024



DISTRICT MINING OFFICER
DUMKA

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



S. No	Grant Date	Lease Applicant	Block	Village	Plot No.	Area (In Acre)	Letter no. and Dated
39	07.08.2024	Shiv Kumar Vaski Father-Late Bhutal Vaski Village-Manka Pathari, P.O-Nishchintpur, Police Station-Jama, District-Dumka 814110	Shikaripada	Aamchuan	64, 65, 68, 69, 70, 71, 72, 73, 77, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127/part, 128, 129 and 131	6.87	Letter no. 924 Date-08-08-2024
40	07.08.2024	Nihar Khan Father-Nikhil Chandra Khan Village-Makdaphari, P.O.-Sarsdangal, Police Station-Shikaripara, District-Dumka.	Shikaripada	salbona pahar	148, 150/part, 151 and 152/part	4.01	Letter no. 931 Date-08-08-2024
41	08.08.2024	M/s Varun Singh Sisodia Pvt. Ltd., Managing Director Mr. Varun Singh, Father Mr. Kumar Bharat, Permanent Address 12 Kishore Bhawan, Justice Mandal Path D.A.B. East of School Rajvanshi Nagar, Patna (Bihar) 800023	Shikaripada	Chnadang adyia	905/part, 906/part, 907, 908, 909, 910, 911, 912/part, 918/part, 919, 920/part, 921/part and 922/part,	5.19	Letter no. 946 Date-12-08-2024
42	07.08.2024	M/S Johar Stone Products Pvt. Ltd., Part-Shri Amit Mandal, Father Shri Arjun Mandal, Village Post Asanbani, Police Station Raneshwar, District Dumka, Shri Shashiti Pad Mandal, Father Shri Sujal Chandra Mandal, Village Post Asanbani, Police Station Raneshwar, District Dumka.	Shikaripada	kurunda	227, 228, 229, 230, 231, 232, 234, 235, 236 and 237	4.57	Letter no. 939 Date-10-08-2024
43	08.08.2024	M/S Three Star Stone Works, Prop. Daniel Tudu, Father-Late	Shikaripada	Haripur	401/Part, 402, 403, 404 to 408, 413, 446, 470 and 471	5.95	Letter no. 947 Date-12-08-2024.



APPROVED
DISTRICT MINING OFFICER
DUMKA

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



S. No	Grant Date	Lease Applicant	Block	Village	Plot No.	Area (In Acre)	Letter no. and Dated
		Prabhu Tudu, Address – Old Dumka, P.O Police Station District – Dumka.	Shikaripada				
44	08.08.2024	Shri Vinod Kumar Singhaniya, father Late Hariprasad Singhaniya, Address- Schoolpara, Post Police Station District Dumka.	Shikaripada	Shahrpur	115, 116, 117/part, 119, 120, 121, 122 and 365	3.60	Letter no. 948 Date-12-08- 2024
45	10.08.2024	M/s Spartan Mining Part-Shri Sachin Kumar Das, Father- Vishwanath Das Village- Rangamasalia Dalahi, P.O.- Kendghata, Police Station-Masalia, District Dumka. 2. Mustafa Miyan, father-Safur Miyan, Village-Devwaha, PO-Banspahari, Police Station- Shikaripara. District of both - Dumka.	Shikaripada	Manjhladi h	742, 743/Part, 747/Part	4.72	Letter no. 952 Date-12-08- 2024
46	10.08.2024	Mohd. Abdussalam Ansari, Father- Mohd. Ghulam Rasul, Village-Kalakata, P.O.-Patior, Police Station-Raneshwar, District-Dumka.	Shikaripada	Barmasia	1886, 1892, 1893, 1894, 1897 and 1945, 1944	3.71	Letter no. 963 Date-16-08- 2024
47	12.08.2024	Part-1. Arun Kumar Sah, Father – Late Balgobind Sah, Village PO- Shikaripara, Police Station-Shikaripara, District-Dumka. 2. Lal Babu Ansari, Father- Yasin Ansari.	Shikaripada	Paharpur	818, 819, 820, 821/Part, 822/Part, 823/Part and 824/Part	5.84	Letter no. 959 Date-16-08- 2024



APPROVED
District Survey Officer,
DUMKA

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



S. No	Grant Date	Lease Applicant	Block	Village	Plot No.	Area (In Acre)	Letter no. and Dated
		Village-Dakopada, P.O-Nimdaspur, Police Station-Mo.Bazar, District-Birbhum (W.B)					
48	12.08.2024	Hanuman Singh, father-Bishna Ram, Village-Kuloth Khurd, P.O.-Surajgarh Kuloth Khurd, Kuloth Kala, Police Station-Surajgarh, District-Jhujhun (Raisthan) 333033	Shikaripada	Salbona Pahar	123/part	3.7	Letter no. 960 Date- 16-08-2024
49	12.08.2024	Santosh Yadav, Father- Shri Prayag Yadav, Village-Charneel, P.O. Devchanda, Police Station- Barhi, District-Hazaribagh, 825405	Shikaripada	Shahrpur	187/Part, 188/Part, 189/Part, 190, 191, 192, 193/Part, 194, 195, 196, 197/Part, 218/Part and 219	6.07	Letter no. 961 Date- 16-08-2024
50	16.08.2024	M/s Jai Baba Bajrangbali Stone Mill, Prop. Shri Tapas Bhagat, Farher Shri Harishankar Bhagat, Village Nishatpur, Near Holhome School, P.O.-Rampurhat, District-Virbhum (W.B)	Shikaripada	Salbona pahar	260/Part, 261/Part, 263, 264 and 265/Part	5.1	Letter no.968 Date- 17-08-2024
51	16.08.2024	Mr. Aman Singh, Father Late Ranveer Singh, Village Janugadiya, Post Pratappur, Police Station Shikaripada, District Dumka, Jharkhand, Pin 816118	Masaliya	Manjhladi h	1344/part, 1345, 1368, 1369, and 1372	4.8	Letter no. 969 Date- 17-08-2024



DISTRICT MINING OFFICER,
DUMKA
2901 Page

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



S. No	Grant Date	Lease Applicant	Block	Village	Plot No.	Area (In Acre)	Letter no. and Dated
52	16.08.2024	Shri Mahesh Yadav, Shri Rameshwar Yadav, Father Permanent Address Satdha, Post Samatand, Dhana Jaynagar, District Koderma. Present address Sarasdangal, Police Station Shikaripada, District - Dumka.	Shikaripada	Chitragad iya	1606, 1607, 1608, 1609, 1611, 1620/part, 1621, 1622, 1623, and 1624	4.25	Letter no. 970 Date- 17-08-2024
53	16.08.2024	Shri Sanjay Kumar Sah, Father-Shri Muntial Sah, Village PO- Palajori, Police Station-Palajori, District-Deoghar.	Shikaripada	Amba	410, 411 and 415	3.17	Letter no. 971 Date- 17-08-2024
54	16.08.2024	Jyoti Construction and Engineering Pvt. Ltd. Director Mr. Ranjit Kumar, Father - Mr. Ram Yash Rai, Mr. Sujit Kumar, Father - Late Ram Vandan Singh, Both Address House No. A/3, Vivekananda Park Lane ASI Patliputra Colony Patna 800013	Shikaripada	Salbona pahar	147(P)	6.94	Letter no. 972 Date- 17-08-2024
55	16.08.2024	Shri Shardindu Mal, Father- Shri Kanhai Mal, Village- Chaklamadh, Rampurhat, P.O Police Station- Rampurhat, District- Virbhum (W.B.)	Shikaripada	Manjhladi h	1289/Part, 1292/Part, 1293, 1353, 1356, 1357, 1360/Part, 1366 and 1367	7.39	Letter no. 973 Date- 17-08-2024
56	17.08.2024	Shri Rana Rakesh Pratap Singh Father- Shri Rana Ranjay Pratap	Shikaripada	Chandang adiya	947/Part, 948/Part, 949/Part, 952,	5.49	Letter no. 977 Date- 20-08-2024

Approved

29/8/24
DISTRICT MINING OFFICER
DUMKA

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



S. No	Grant Date	Lease Applicant	Block	Village	Plot No.	Area (In Acre)	Letter no. and Dated
		Singh, Village-Grant State, Police Station District-Dumka, Jharkhand			953, 964 and 966/Part		
57	17.08.2024	Mr. Hans Raj, Father- Mr. Naveen Kumar, Village-Khapura, P.O.- Pakdiwarawan, Police Station Pakdiwarawan, District-Nawada, Bihar.	Shikaripada	Salbona pahar	121/part, 122 and 123/part	4.63	Letter no. 984 Date-22-08-2024
58	27.08.2024	Prayushadhar Jha Father-St. Vidyadhar Jha, Village- Near Central Jail, Grant State Dumka, Police Station District-Dumka.	Shikaripada	Lowapada	93, 94, 95/part and 148/part	5.7	Letter no. 1000 Date-28-08-2024
59	27.08.2024	Jai Vishnu Stone Product, Prop. Shri Virendra Saav, father Late Govind Saav Bhimedih, Post Police Station Navalsahi, District Birbhum(W.B)	Shikaripada	Chitragad iya	37, 38, 39/parts, 41, 42, 43 and 49	5.3	Letter no. 1002 Date-28-08-2024
60	27.08.2024	Vinit Stone Part-Shri Manoj Kumar Singh (Pahadia) Father-Late Devendra Singh, Village-Naharpark (LIC Colony) P.O. Police Station District-Dumka.	Gopikander	Sugapahari	02 and 03	5.05	Letter no. 1009 Date-29-08-2024



**DISTRICT MINING OFFICER,
DUMKA**

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



S. No	Grant Date	Lease Applicant	Block	Village	Plot No.	Area (In Acre)	Letter no. and Dated
61	29.08.2024	Swastik Mining Agency, Part - Nehal Kumar Chavda, father - Late Jitendra Kumar Chavda, village- post Bakudi, police station+ District - Sahibganj, Tinpahar, 2. Utram Kumar Singh, father - Satyendra Singh, village+ post - Rajmahal, district - Sahibganj, 3. Sandeep Kumar Mahato, father- Shri Aklu Prasad Mahato, Village- Kathghar, Post- Mansinghpur, Police Station+ District -Sahibganj.	Shikaripada	Chandang adiya	924/part, 925, 926/part, 927, 931/part, 932/part, 934, 936/part, 951/part, and 952	7.21	Letter no. 1014 Date- 31-08-2024
62	29.08.2024	Shri Ravi Shakar Kumar, Father Shri Upendra Prasad Singh, House No. 298, Ward No. 04. Address -Near Singh Vorwell, Williams Town, Shri Krishnapuri Deodhar, Post Police Station District Deodhar, 814112	Shikaripada	Chandipur	77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97 and 98	6.51	Letter no. 1015 Date- 31-08-2024
63	10.09.2024	Part - Kaleem Ansari, father Hasil Mian. Village- Thakarapur, Post - Kolha, Thana- Kathikund, District- Dumka, 814103 2. Mohd. Wahid Alam, Late Mohd. Moziur Rahman, Village- Dr. Pass.	Shikaripada	Shahrpur	136, 138/part, 139, 140, 146/part, 147, 148, 149 and 150	4.66	Letter no. 1045 Date- 12-09-2024



**DISTRICT MINING OFFICER,
DUMKA**

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



S. No	Grant Date	Lease Applicant	Block	Village	Plot No.	Area (In Acre)	Letter no. and Dated
		D.N Shah Salempur, Suturkhana, Police Station -Banka, Post Office- Mofusil Munger, District Munger, (Bihar).					
64	10.09.2024	Vikram Sharma, Father Shri Gakul Mistry, Address Rasikpur Ward No. 01. Post Police Station District Dumka, State Jharkhand 814101	Shikaripada	Dimbadah a	86/part, 87, 88, 90/part, 93/part, 94/part, 95, 96, 97, 98, 99, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114 and 116,	4.89	Letter no.1051 Date- 12-09- 2024
65	10.09.2024	M/s Shiv Shankar Enterprises, Part.-Shri Vidit Kumar, Father-Shri Virendra Veer, Village-Subhash Bazaar, 1175 Kablii Gate, District- Meerut (Uttar Pradesh) 2. Deepak Kumar, Father-Shri Ashok Kumar Jaiswal, Address-H.G. Housing Colony No. -11, Police Station-Kortmod, District-Dhanbad.		Rambani	139, 140, 141, 142 and 217	4.96	Letter no. 1065 Date- 18-09- 2024
66	11.09.2024	Sanjay Prasad Singh., Father Shri Rajnandan Singh, Address- Gausshala Road 2nd Floor, Opposite Karbala, Post Police Station District Dumka.	Gopikander Shikaripada	Salbona pahar	1305/Part, 1309, 1310, 1311, 1312, 1313 and 1319	7.25	Letter no. 1059 Date- 13-09- 2024



DISTRICT MINING OFFICER
DUMKA
294 | Page

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



S. No	Grant Date	Lease Applicant	Block	Village	Plot No.	Area (In Acre)	Letter no. and Dated
67	19.09.2024	M/s Alliance Info & Mines, Part-Shri Sanjay Kumar Verma, Father-Late Kailash Prasad Verma, Village P.O. Police Station-Shikaripara , District-Dumka. 2. Shri Ashutosh, Father-Shri Mahanand Choudhary, Address-House No. 41, S.F.R. H.S. Lane No. 02, Behind Laxmi Nagar Sai Mandir, East Delhi 110002. 3. Mohd. Irfan, father-Mohammed Israr Pala-House No. 41, H. No. 137/12, 2nd Floor, Lane No. 04 Block A/2 West Santnagar, Burari North Delhi- 110084	Shikaripada	Salbona Pahar	164/part and 165/part	1.986	Letter no. 1073 Date- 18-09-2024
68	19.09.2024	Shri Mrityujay Kumar, Father-Ramdarsh Sharma, Village P.O. Gorkhadi, Police Station-Vikram, District-Patna (Bihar) 801104	Shikaripada	Chirapath ar	416, 417, 418/Part, 419, 420, 634, 635, 636, 670, 671, 679, 673, 674, 675, 676, 677, 678, 679, 688 and 689	3.74	Letter no. 1085 Date- 21-09-2024
69	19.09.2024	Shri Ajit Kumar Singh, father of village Shri Govardhan Prasad Singh, Narodih, Post Chakai, Police Station Chakai, District Jamui (Bihar).	Shikaripada	Chandipur	29, 30, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 70 and 71,	5.19	Letter no. 1087 Date- 21-09-2024



DISTRICT MINING OFFICER,
DUMKA
295 | Page

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



S. No	Grant Date	Lease Applicant	Block	Village	Plot No.	Area (In Acre)	Letter no. and Dated
70	18.09.2024	M/s Tudu Stone Works, Prop. Shri Paras Tudu, Father Late Kanu Tudu, Address- Champanagar Grant State, Post Police Station District Jharkhand 814101 Dumka	Shikaripada	Barmasia	1862, 1863, 1864, 1871, 1872, 1874, 1875, 1877, 1878, 1879, 1880, 1881, 1882, 1883, and 1884	5.55	Letter no. 1088 Date-21-09-2024
71	20.09.2024	M/s Universal Black Stone Works, Prop. S/o Mohd. Asad Ali, Late Masahuli, Village Post Pinargadia, Thana-Shikaripara, District Dumka, 816103	Shikaripada	Shahrpur	170, 171, 172/part, 173, 174, 175/part, 181 and 182	4.89	Letter no. 1086 Date- 21-09-2024

Note: - 1. Any other area which may be found feasible for stone mining shall be included in the DSR prospectively.

POTENTIAL ZONE/AREA 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 raix at land
5. Area identified by district Geology Dept.

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

These potential zones/areas indicate the 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.



**DISTRICT MINING OFFICER,
DUMKA**

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



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- JSAC, Deptt. of Mines & Geology, Govt. of Jharkhand
- <http://www.jharkhandminerals.gov.in>
- District Irrigation Plan – dumka, Govt. of Jharkhand
- https://sameti.org/Soil_Inventory/dumkaSoil_Analysis.pdf
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- District Statistical Office, Dumka
- census2011.co.in
- National Informatics Centre




DISTRICT MINING OFFICER,
DUMKA

ANNEXURE-I
LIST OF BRICK KILN



जिला खनन कार्यालय, दुमका।

चिमनी ईट भट्टा की सूची।

जिला का नाम :- जिला खनन कार्यालय, दुमका।

क्र0	चिमनी भट्टे दारों का नाम एवं पता	मौजा	रकबा	प्रखण्ड
1	2 दुमका किलन ब्रिक्स, श्री राजन कुमार सिंह, पिता - श्री दुर्गा दयाल सिंह, पता - बकसीबांध रोड, दुमका।	3	4 3.53 एकड़	5 जामा



ANNEXURE-II
LIST OF AUCTION STONE BLOCK
BY MINES & GEOLOGY



LIST OF AUCTION STONE BLOCK BY MINES & GEOLOGY

Sl No	Name of stone Block	Name of Block	Name of District	Area (In Ha)
1.	Bhaluwa	Sariyahaat	Dumka	5.01
2.	Kenduwa	Sariyahaat		3.07
3.	Kateli	Jarmundi		2.84
4.	Simra Baratamr and kushmaha	Jarmundi	Dumka	7.42
5.	Bishunpur	Jarmundi	Dumka	8.89
6.	Bagiariya	Sariyahat		6.28
7.	Bamankheta and Kurwa	Sariyahat	Dumka	13.00
8.	Dholpahar	Sariyahaat	Dumka	5.41
9.	Jalwe	Sariyahaat	Dumka	7.92
10.	Kateli	Jarmundi	Dumka	8.24
11.	Lilabaran	Sariyahaat		5.58
12.	Parhidih & Kateli	Jarmundi	Dumka	6.73
13.	Mandaldih	Sariyahaat	Dumka	9.90



Preparation of Auctionable Minor Mineral (Stone) Block (C1 Category) under Jharkhand Minor Minerals (Evidence of Mineral Contents) Rules 2018

Field Programme for Field Season 2018-19

Sl. No	District	Block/ Mauja	Minerals	Area (Ha.)	Resource (Million Tons)	OSM NO.	Limiting Coordinates	Status of Exploration
1	Dumka	Saraiyahat/Mandaldih	Ornamental Granite	9.90 Ha	3.4 MT	G45V2	Latitude :- 24° 35' 5.36" N to 24° 35' 15.22" N Longitude :- 87° 02' 29.69" E to 87° 02' 45.02" E	GR submitted
2	Dumka	Saraiyahat/Mandaldih and Madhuvan	Ornamental Granite	7.776 Ha	3.946 MT	G45V2	Latitude :- 24° 34' 59.57" N to 24° 35' 10.09" N Longitude :- 87° 02' 49.16" E to 87° 02' 57.63" E	GR submitted
3	Dumka	Saraiyahat/Bavankheta and Kurwa	Ornamental Granite	13.00 Ha	6.51 MT	G45V2	Latitude :- 24° 37' 18.848" N to 24° 37' 39.972" N Longitude :- 87° 04' 45.49" E to 87° 04' 58.198" E	GR Submitted
4	Dumka	Jarmundi/Pahridih/Kateli	Ornamental Granite	26 Ha	-	G45V3	Latitude :- 24°22'38.53"N to 24°22'58.03"N Longitude:- 87°01'30.40"E 87°01'48.20"E	GR submitted
4	Dumka	Jarmundi/Pahridih/Kateli	Ornamental Granite	10 Ha	-	G45V3	Latitude:- 24°34'58.7"N to 24°35'14.95"N Longitude:- 87°04'25.2"E to 87°04'32.32"E	GR submitted



Field Programme for Field Season 2019-20

Sl. No	District	Block/ Mauja	Minerals	Area (Ha.)	Resource (Million Tons)	OSM NO.	Limiting Coordinates	Status of Exploration
1	Dumka	Jarmundi / Kateli	Decorative / General Stone	8.26 Ha	Decorative Stone -0.28 MT & General Stone -2.53 MT	G45V3	Latitude :- 24° 22' 38.55" N to 24° 22' 53.45" N Longitude :- 87° 01' 29.72" E to 87° 01' 43.13" E	GR submitted
2	Dumka	Saraiyahat / Kendua	Decorative / General Stone	6.26 Ha	Decorative Stone -1.74 MT & General Stone -3.33 MT	G45V2	Latitude :- 24°32'01.76"N to 24°32'15.63"N Longitude :- 87°03'08.50"E to 87°03'15.56"E	GR submitted
3	Dumka	Saraiyahat/ Jalwe	Decorative / General Stone	7.92 Ha	Decorative Stone -2.97 MT & General Stone -5.52 MT	G45V2	Latitude :- 24°34'58.67"N to 24°35'15.40"N Longitude :- 87°04'19.77"E to 87°04'30.81"E	GR submitted
4	Dumka	Saraiyahat/ Lilabaran	Decorative / General Stone	5.58 Ha	Decorative Stone -0.28 MT & General Stone -1.58 MT	G45U14	Latitude :- 24°35'02.34"N to 24°35'15.17"N Longitude :- 86°57'18.39"E to 86°57'32.43"E	GR submitted
5	Dumka	Saraiyahat/ Dholpahar	General Stone	5.41 Ha	2.04 MT	G45U14	Latitude :- 24°32'58.53"N to 24°33'11.52"N Longitude :- 86°56'03.81"E to 86°56'16.62"E	GR submitted
6	Dumka	Saraiyahat/ Bagiariya Chandubathan	General Stone	6.28 Ha	1.21 MT	G45V2	Latitude :- 24°30'11.8"N to 24°30'20.5"N Longitude :- 87°03'30.3"E to 87°03'46.8"E	GR submitted
7	Dumka	Jarmundi / Paharidih & Kateli	Decorative/ General Stone	6.73 Ha	Decorative Stone -2.11 MT & General Stone -2.57 MT	G45V3	Latitude :- 24°22'48.42"N to 24°23'00.66"N Longitude :- 87°01'23.82"E to 87°01'34.22"E	GR submitted
8	Dumka	Jarmundi / Bishunpur	Decorative/ General Stone	8.89 Ha	Decorative Stone -1.12 MT & General Stone -4.46 MT	G45V3	Latitude :- 24°22'06.31"N to 24°22'19.87"N Longitude :- 87°01'02.95"E to 87°01'16.95"E	GR submitted



9	Dumka	Jarmundi / Paharidih & Kateli	Decorative/ General Stone	5.17 Ha	Decorative Stone -0.47 MT & General Stone -1.89 MT	G45V3	Latitude :- 24°23'07.27"N to 24°23'13.45"N Longitude :- 87°01'37.12"E to 87°01'52.01"E	GR submitted
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Field Programme for Field Season 2020-21

Sl. No	District	Block/ Mauja	Minerals	Area (Ha.)	Resource (Million Tons)	OSM NO.	Limiting Coordinates	Status of Exploration
1	Dumka	Jarmundi/ Parhidih and Kateli	General Stone	5.06 Ha	1.95	G45V3	Latitude:- 24°23'7.27" N to 24°23'13.45" N Longitude :- 87° 01' 29.72" E to 87° 01'52.01"E	GR submitted
2	Dumka	Jarmundi/ Kateli I	General Stone	8.25 Ha	=	G45V3	Latitude :- 24°22'55.96"N to 24°23'6.21"N Longitude :- 87° 1'42.76"E to 87° 1'55.06"E	GR under preparation
3	Dumka	Jarmundi/ Simra	General Stone	9.19 Ha	=	G45V3	Latitude :- 24°20'53.54" N to 24°21'6.83"N Longitude :- 87° 2'11.29" E to 87° 2'20.17"E	GR under preparation

Field Programme for Field Season 2021-22

Sl. No	District	Block/ Mauja	Minerals	Area (Ha.)	Resource (In Cubic Meter)	OSM NO.	Limiting Coordinates	Status of Exploration
1	Dumka	Kateli	General Stone	8.56 Ha	2076938.3003	G45V3	Latitude:- 24°22'56.9"N to 24°23'5.21"N Longitude :- 87° 1'39.2"E to 87° 1'52.5"E	GR submitted



2	Dumka	Bhalua and Jamjori	General Stone	9.05 Ha	1264566	G45V2	Latitude :- 24°31'3.053"N to 24°31'16.034"N Longitude :- 87° 4'17.493"E to 87° 4'30.900"E	GR submitted
3	Dumka	Kendua	General Stone	6.26 Ha	189504.48	G45V2	Latitude 24°32'49.750"N to 24°32'15.63"N Longitude :- 87° 03'8.50"E to 87° 03'15.56"E	GR submitted
4	Dumka	Simra/ Kushmaha/ Baratanr	General Stone	7.42 Ha	697363.03	G45V3	Latitude:- 24°20'49.750"N to 24°21'21.250"N Longitude :- 87° 2'11.340"E to 87° 2'20.160"E	GR submitted
5	Dumka	Sidhpahari	General Stone	10.39 Ha	2699464.02	G45V3	Latitude:- 24°10' 0.158"N to 24°10'13.256"N Longitude :- 87° 1'36.237"E to 87° 1'50.127"E	GR submitted

Field Programme for Field Season 2022-23

Sl. No	District	Block/ Mauja	Minerals	Area (Ha.)	Resource (In Cubic Meter)	OSM NO.	Limiting Coordinates	Status of Exploration
1	Dumka	Paharidih / Jarmundi	General Stone	3.62 Ha	To be assessed	G45U15	Latitude:- 24°26'51.80"N to 24°26'56.98"N Longitude :- 87°54'34.03"E to 87°54'44.91"E	GR under preparation
2	Dumka	Upper Tinghara/ Jarmundi	General Stone	4.77 Ha	To be assessed	G45U15	Latitude :- 24°26'51.74"N to 24°26'59.34"N Longitude :- 86°54'17.69"E to 86°54'27.52"E	GR under preparation



Field Programme for Field Season 2023-24

Sl. No	District	Block/ Mauja	Minerals	Area (Ha.)	Resource (Million Tons)	OSM NO.	Limiting Coordinates	Status of Exploration
1	Dumka	Kataria and Bokla	General Stone	4.11 Ha	1.2 MT	G45U15	Latitude- 24° 27'52.74" N to 24°27'59.92" N Longitude -86° 55' 33.01" E to 86° 55' 48.87E.	GR submitted
2	Dumka	Murbhanga	General Stone	2.95 Ha	To be assessed	G45U15	Latitude- 24° 16'15.12" N to 24° 16'23.98" N Longitude -87° 22' 33.77" E to 87°22' 39.91" E	GR under preparation
3	Dumka	Shrirampur	General Stone	8.53 Ha	To be assessed	G45U15	Latitude- 24° 21'05.88" N to 24° 21'20.62" N Longitude -87° 57' 56.00" E to 87° 58' 6.75" E	GR under preparation

Proposed Field Programme for Field Season 2024-25

Sl. No	District	Block/ Mauja	Minerals	Area (Ha.)	Resource (Million Tons)	OSM NO.	Limiting Coordinates	Status of Exploration
1	Dumka	Saropahari	General Stone	5.33 Ha	To be assessed	G45V3	Latitude:-24°24'39.29"N to 24°24'49.03"N Longitude:-87°13'09.19"E to 87°13'20.19"E.	Starts in new field session
2	Dumka	Upar Situa	General Stone	5.60 Ha	To be assessed	G45V3	Latitude:-24°23'59.05"N to 24°24'08.68"N Longitude:-87°14'07.68"E to 87°14'18.38"E	Starts in new field session
3	Dumka	Saharpur	General Stone	7.21 Ha	To be assessed	G45V12	Latitude:-24°10'52.60"N to 24°11'06.20"N Longitude:-87°34'35.58"E to 87°34'49.11"E	Starts in new field session



ANNEXURE-III
SDM COMMITTEE LETTER
DUMKA



कार्यालय जिला दण्डाधिकारी - सह - उपायुक्त, दुमका

(खनन शाखा)

आदेश।


पर्यावरण वन और जलवायु परिकरन विभाग के अधिसूचना संख्या- 2027/ दिनांक- 25.07.2018 एवं माननीय झारखण्ड उच्च न्यायालय ने 2015 की रिट याचिका (पी आई एल) संख्या- 1806 स्वप्रेरणा बनाम झारखण्ड राज्य एवं अन्य के मामले में रिट याचिका (पी.आई.एल.) संख्या- 2013-290 हेमल कुमार शिल्पकार बनाम झारखण्ड राज्य एवं अन्य के मामले में तारीख- 11 अप्रैल 2018 और 19 जून 2018 के आदेश तथा सरकार के सचिव खान एवं भूतत्व विभाग झारखण्ड रांची के पत्रांक 928/एम0 रांची दिनांक 27.04.2023 में बालू और रेत से भिन्न गैण खनिजों के लिए जिला सर्वेक्षण रिपोर्ट तैयार करने के लिए राज्य सरकार जिला सर्वेक्षण प्रतिवेदन समिति / जिला विशेषज्ञ मूल्यांकन को निर्देशित किया गया है।

उक्त अधिसूचना के अनुरूप जिला सर्वेक्षण रिपोर्ट (रेत खनन से भिन्न गैण खनिज) हेतु जिला सर्वेक्षण प्रतिवेदन समिति द्वारा तकनीकी प्रभालन एवं प्राधिकरण के अवसरचना में भूविज्ञान / सिंचाई विभाग / लोक निर्माण विभाग / खनन विभाग के सहायता एवं समन्वयन से जिला सर्वेक्षण प्रतिवेदन तैयार किया जाता है, उक्त समिति / प्राधिकरण के अन्तर्गत District Survey Report Survey & Prepaarations हेतु कमिटी की अवसरचना प्रावधानित नियम के अन्तर्गत निम्नरूपेण गठन किया जाता है :-

1. वन प्रमण्डल पदाधिकारी, दुमका।
2. अनुमण्डल पदाधिकारी, दुमका।
3. जिला खनन पदाधिकारी, दुमका।
4. कार्यालयक अभियंता, लघु सिंचाई प्रमण्डल, दुमका।
5. सहायक निदेशक भूतत्व, जिला भूतत्विक कार्यालय, दुमका।
6. क्षेत्रीय पदाधिकारी, प्रदूषण नियंत्रण पर्वद, क्षेत्रीय कार्यालय, दुमका।


उक्त कमिटी दुमका जिलान्तर्गत लघु खनिज (बालू छोडकर) का DSR Dmsh 15 दिनों के अन्दर तैयार कर अडोहस्ताक्षरी को उपलब्ध कराना सुनिश्चित करेंगे।

यह आदेश तत्काल प्रभाव से लागू समझा जायेगा।


उपायुक्त,
दुमका।

शायांक 721 / खनन, दिनांक 25/06/24

प्रतिलिपि- संबंधित सभी पदाधिकारी को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।
प्रतिलिपि- निदेशक खान / निदेशक भूतत्व, झारखण्ड, रांची को सूचनार्थ प्रेषित।
प्रतिलिपि- सचिव, खान एवं भूतत्व विभाग, झारखण्ड, रांची को सूचनार्थ प्रेषित।


उपायुक्त,
दुमका।





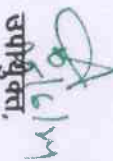
कार्यालय जिला दण्डाधिकारी – सह – उपायुक्त, दुमका
(खनन शाखा)
आदेश।

पर्यावरण, वन और जलवायु परिवर्तन विभाग के अधिसूचना संख्या- 2827, दिनांक- 25.07.2018 एवं माननीय झारखण्ड उच्च न्यायालय ने 2015 की रिट याचिका (पी.आई.एल.) संख्या- 1806, स्वप्रेरणा बनाम झारखण्ड राज्य एवं अन्य के मामले में रिट याचिका (पी.आई.एल.) संख्या- 2013-290 हेमंत कुमार शिल्पकार बनाम झारखण्ड राज्य एवं अन्य के मामलों में तारीख- 11 अप्रैल 2018 और 19 जून 2018 के आदेश तथा सरकार के सचिव, खान एवं भूतत्व विभाग, झारखण्ड रांची के पत्रांक 928/एम0 रांची दिनांक 27.04.2023 में बालू और रेत से भिन्न गौण खनिजों के लिए जिला सर्वेक्षण रिपोर्ट तैयार करने के लिए राज्य सरकार जिला सर्वेक्षण प्रतिवेदन समिति/जिला विशेषज्ञ मूल्यांकन को निर्देशित किया गया है।

उक्त अधिसूचना के अनुरूप जिला सर्वेक्षण रिपोर्ट (रेत खनन से भिन्न गौण खनिज) हेतु जिला सर्वेक्षण प्रतिवेदन समिति द्वारा तकनीकी प्रचालन एवं प्राधिकरण के अवसंरचना में भूविज्ञान/सिंचाई विभाग/लोक निर्माण विभाग/खनन विभाग के सहायता एवं समन्वयन से जिला सर्वेक्षण प्रतिवेदन तैयार किया जाता है, उक्त समिति/प्राधिकरण के अन्तर्गत District Survey Report Survey & Preparations हेतु कमिटी की अवसंरचना प्रावधानित नियम के अन्तर्गत निम्नरूपेण गठन किया जाता है :-

1. वन प्रमण्डल पदाधिकारी, दुमका।
2. अनुमण्डल पदाधिकारी, दुमका।
3. जिला खनन पदाधिकारी, दुमका।
4. कार्यपालक अभियंता, लघु सिंचाई प्रमण्डल, दुमका।
5. सहायक निदेशक भूतत्व, जिला भूतत्विक कार्यालय, दुमका।
6. क्षेत्रीय पदाधिकारी, प्रदूषण नियंत्रण पर्वद, क्षेत्रीय कार्यालय, दुमका।

उक्त कमिटी दुमका जिलान्तर्गत लघु खनिज (बालू छोडकर) का DSR Draft 15 दिनों के अन्दर तैयार कर अद्योहस्ताक्षरी को उपलब्ध कराना सुनिश्चित करेंगे।
यह आदेश तत्काल प्रभाव से लागू समझा जायेगा।


उपायुक्त,
दुमका।

ज्ञापांक.....721...../खनन, दिनांक 25/06/24.....
प्रतिलिपि- संबंधित सभी पदाधिकारी को सूचनाार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।
प्रतिलिपि- निदेशक खान/निदेशक भूतत्व, झारखण्ड, रांची को सूचनाार्थ प्रेषित।
प्रतिलिपि- सचिव, खान एवं भूतत्व विभाग, झारखण्ड, रांची को सूचनाार्थ प्रेषित।

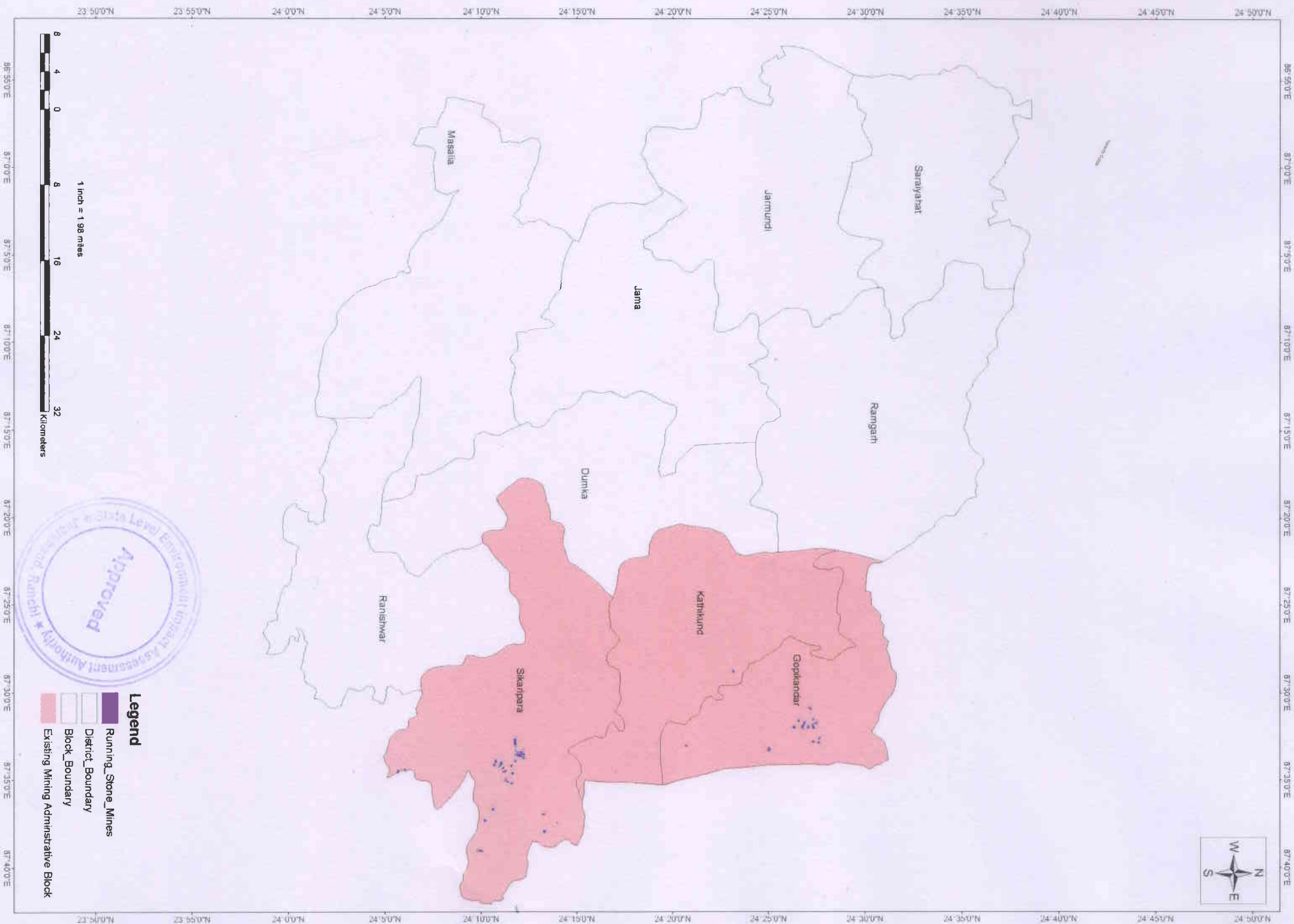

उपायुक्त,
दुमका।



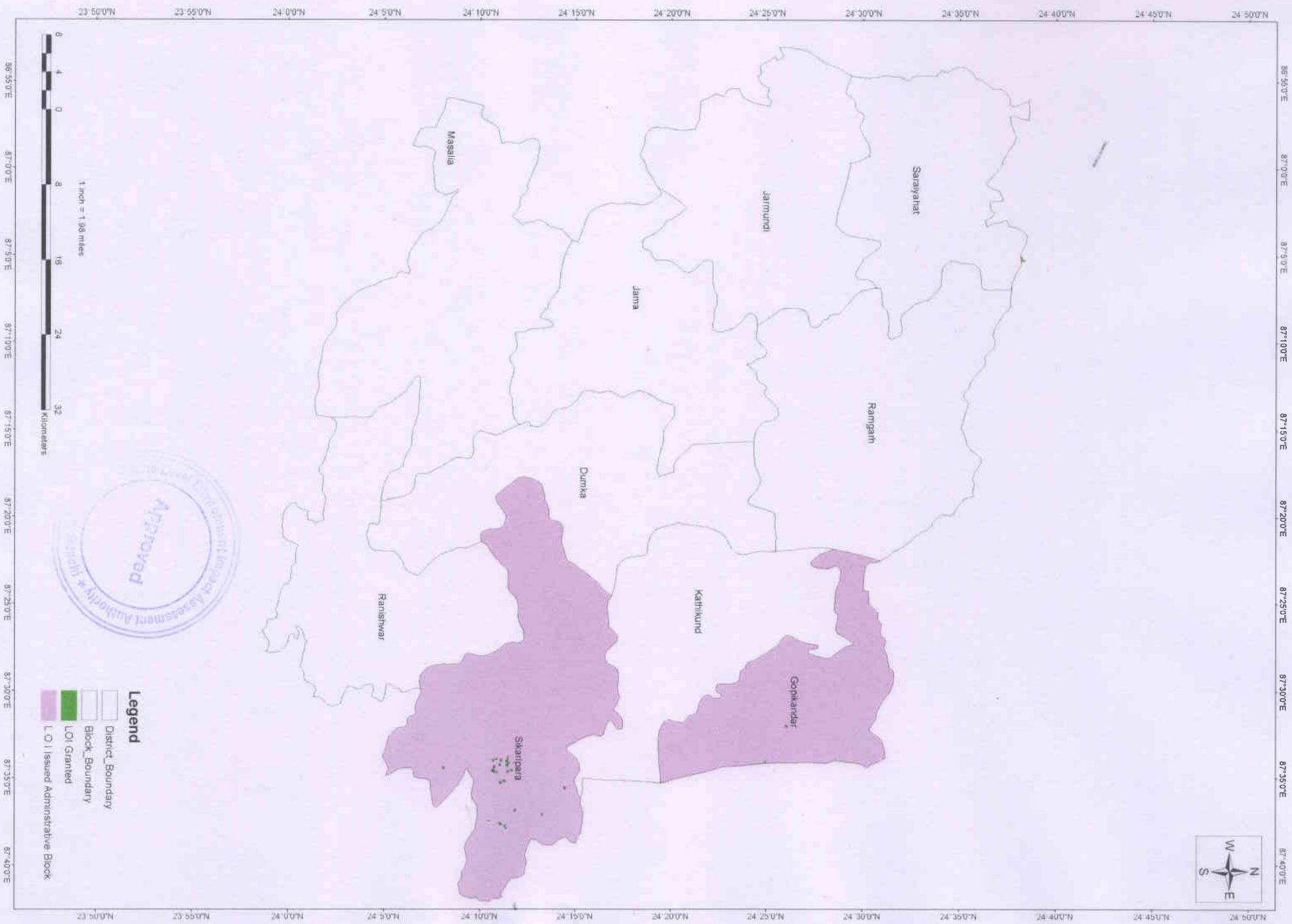
ANNEXURE-IV
MAPS



LOCATION MAP EXISTING / WORKING MINING LEASES IN DUMKA DISTRICT, JHARKHAND



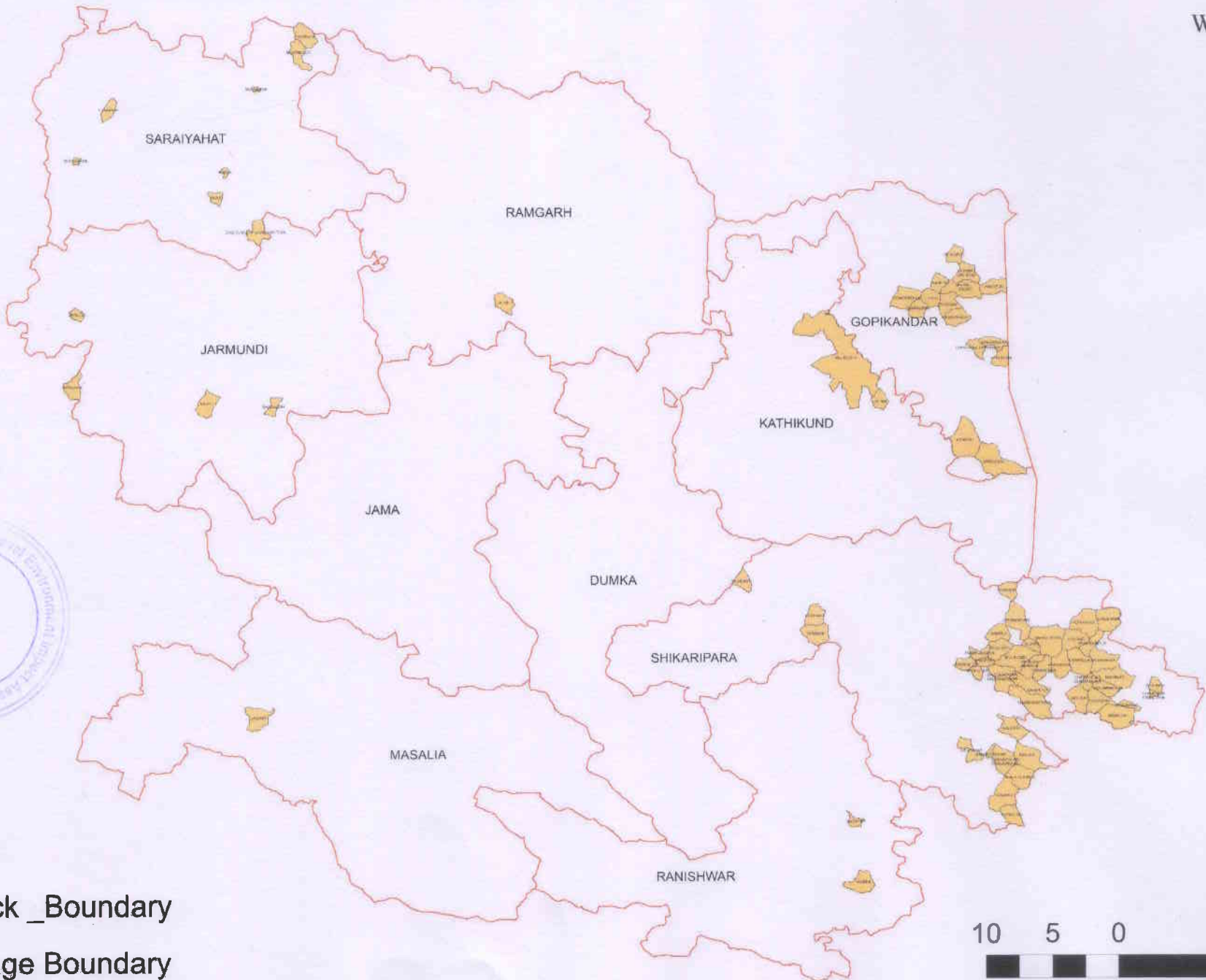
LOCATION MAP L.O.I ISSUED POTENTIAL BLOCK IN DUMKA DISTRICT, JHARKHAND





LOCATION MAP SUBMITTED APPLICATIONS APPLIED POTENTIAL BLOCK IN DUMKA DISTRICT, JHARKHAND



POTENTIAL ZONE IN DUMKA DISTRICT, JHARKHAND



Legend

-  Block_Boundary
-  Village Boundary



86°48'0"E 86°51'0"E 86°54'0"E 86°57'0"E 87°0'0"E 87°3'0"E 87°6'0"E 87°9'0"E 87°12'0"E 87°15'0"E 87°18'0"E 87°21'0"E 87°24'0"E 87°27'0"E 87°30'0"E 87°33'0"E 87°36'0"E 87°39'0"E 87°42'0"E 87°45'0"E

24°39'0"N
24°36'0"N
24°33'0"N
24°30'0"N
24°27'0"N
24°24'0"N
24°21'0"N
24°18'0"N
24°15'0"N
24°12'0"N
24°9'0"N
24°6'0"N
24°3'0"N
24°0'0"N

24°39'0"N
24°36'0"N
24°33'0"N
24°30'0"N
24°27'0"N
24°24'0"N
24°21'0"N
24°18'0"N
24°15'0"N
24°12'0"N
24°9'0"N
24°6'0"N
24°3'0"N
24°0'0"N

86°48'0"E 86°51'0"E 86°54'0"E 86°57'0"E 87°0'0"E 87°3'0"E 87°6'0"E 87°9'0"E 87°12'0"E 87°15'0"E 87°18'0"E 87°21'0"E 87°24'0"E 87°27'0"E 87°30'0"E 87°33'0"E 87°36'0"E 87°39'0"E 87°42'0"E 87°45'0"E

POTENTIAL AREA DETAILS

SL.No.	VILLAGE	TEHSIL	DISTRICT	STATE
1	LAKHIBAD	GOPIKANDAR	DUMKA	JHARKHAND
2	RAMPUR	GOPIKANDAR	DUMKA	JHARKHAND
3	MUSNA	GOPIKANDAR	DUMKA	JHARKHAND
4	RAMBANI	GOPIKANDAR	DUMKA	JHARKHAND
5	JITPUR	GOPIKANDAR	DUMKA	JHARKHAND
6	SUGARAHARI	GOPIKANDAR	DUMKA	JHARKHAND
7	NAMODIH	GOPIKANDAR	DUMKA	JHARKHAND
8	PINDARGARIA	GOPIKANDAR	DUMKA	JHARKHAND
9	CHHOTA BATHANPAHARI	GOPIKANDAR	DUMKA	JHARKHAND
10	LAKHIBAD	GOPIKANDAR	DUMKA	JHARKHAND
11	MUSNA	GOPIKANDAR	DUMKA	JHARKHAND
12	AMARPUR	GOPIKANDAR	DUMKA	JHARKHAND
13	CHHATARCHUA	GOPIKANDAR	DUMKA	JHARKHAND
14	DHARAMPUR	GOPIKANDAR	DUMKA	JHARKHAND
15	AHROCHUA	GOPIKANDAR	DUMKA	JHARKHAND
16	BENGDOBA	GOPIKANDAR	DUMKA	JHARKHAND
17	PAHARPUR	GOPIKANDAR	DUMKA	JHARKHAND
18	AHRICHUON	GOPIKANDAR	DUMKA	JHARKHAND
19	BUDICHAPAR	GOPIKANDAR	DUMKA	JHARKHAND
20	MANIURABADI	GOPIKANDAR	DUMKA	JHARKHAND
21	BHALUWA	JARMUNDI	DUMKA	JHARKHAND
22	KATELI	JARMUNDI	DUMKA	JHARKHAND
23	BARMASTIYA	JARMUNDI	DUMKA	JHARKHAND
24	MANDALDIH	JARMUNDI	DUMKA	JHARKHAND
25	KUSHMAHA	JARMUNDI	DUMKA	JHARKHAND
26	SAMALAPUR	JARMUNDI	DUMKA	JHARKHAND
27	HILL BLOCK	KATHIKUND	DUMKA	JHARKHAND
28	DALAHII	KATHIKUND	DUMKA	JHARKHAND
29	JAMURI	MASALLA	DUMKA	JHARKHAND
30	CHOTA DUNARIA	MASALLA	DUMKA	JHARKHAND
31	VIHAJORI	MASALLA	DUMKA	JHARKHAND
32	JALWE	RAMGARH	DUMKA	JHARKHAND
33	KANIYA JAMAI	RAMGARH	DUMKA	JHARKHAND
34	NAYAPARA	RANISHWAR	DUMKA	JHARKHAND
35	NANDNA	RANISHWAR	DUMKA	JHARKHAND
36	KURWA	SARAIYAHAT	DUMKA	JHARKHAND
37	LILABARAN	SARAIYAHAT	DUMKA	JHARKHAND
38	DHOLPAHAR	SARAIYAHAT	DUMKA	JHARKHAND
39	BAGIARIYA URF CHANDUBATHAN	SARAIYAHAT	DUMKA	JHARKHAND
40	BARA	SARAIYAHAT	DUMKA	JHARKHAND
41	BISHUNPUR	SARAIYAHAT	DUMKA	JHARKHAND
42	CHORBATIA	SARAIYAHAT	DUMKA	JHARKHAND
43	BAMANKHETA	SARAIYAHAT	DUMKA	JHARKHAND
44	CHORVATIA	SARAIYAHAT	DUMKA	JHARKHAND



45	BANKLOR	SHIKARIPARA	DUMKA	JHARKHAND
46	AMCHUA	SHIKARIPARA	DUMKA	JHARKHAND
47	SAHARPUR	SHIKARIPARA	DUMKA	JHARKHAND
48	HARIPUR	SHIKARIPARA	DUMKA	JHARKHAND
49	KURUMTANR	SHIKARIPARA	DUMKA	JHARKHAND
50	KENDPAHARI	SHIKARIPARA	DUMKA	JHARKHAND
51	MAJHLADIH	SHIKARIPARA	DUMKA	JHARKHAND
52	POKHARIA	SHIKARIPARA	DUMKA	JHARKHAND
53	PAHAR AMCHUA	SHIKARIPARA	DUMKA	JHARKHAND
54	LABAPARA	SHIKARIPARA	DUMKA	JHARKHAND
55	SALBONAPAHAR	SHIKARIPARA	DUMKA	JHARKHAND
56	KATPAHARI	SHIKARIPARA	DUMKA	JHARKHAND
57	MANIACHUA	SHIKARIPARA	DUMKA	JHARKHAND
58	KUSUMGHATI	SHIKARIPARA	DUMKA	JHARKHAND
59	POKHARIA	SHIKARIPARA	DUMKA	JHARKHAND
60	KURUNDA	SHIKARIPARA	DUMKA	JHARKHAND
61	CHANDIPUR	SHIKARIPARA	DUMKA	JHARKHAND
62	CHIRAPATHAR	SHIKARIPARA	DUMKA	JHARKHAND
63	HARIPUR	SHIKARIPARA	DUMKA	JHARKHAND
64	NIJHOR	SHIKARIPARA	DUMKA	JHARKHAND
65	MAKRAPAHHARI	SHIKARIPARA	DUMKA	JHARKHAND
66	PAKDAHA	SHIKARIPARA	DUMKA	JHARKHAND
67	DALDALI	SHIKARIPARA	DUMKA	JHARKHAND
68	SALBONAPAHAR	SHIKARIPARA	DUMKA	JHARKHAND
69	GOSAINPAHARI	SHIKARIPARA	DUMKA	JHARKHAND
70	LITPAHAR	SHIKARIPARA	DUMKA	JHARKHAND
71	MAJHLADIH	SHIKARIPARA	DUMKA	JHARKHAND
72	RAMBANI	SHIKARIPARA	DUMKA	JHARKHAND
73	KAUAMAHAL	SHIKARIPARA	DUMKA	JHARKHAND
74	SARASDANGA	SHIKARIPARA	DUMKA	JHARKHAND
75	GOLDAHA	SHIKARIPARA	DUMKA	JHARKHAND
76	KULKULIDONGA	SHIKARIPARA	DUMKA	JHARKHAND
77	KADAR POKHAR	SHIKARIPARA	DUMKA	JHARKHAND
78	SIVALPAHARI	SHIKARIPARA	DUMKA	JHARKHAND
79	CHANDIPUR	SHIKARIPARA	DUMKA	JHARKHAND
80	HATHBARI	SHIKARIPARA	DUMKA	JHARKHAND
81	THAKARANTALA	SHIKARIPARA	DUMKA	JHARKHAND
82	BARAMASIA	SHIKARIPARA	DUMKA	JHARKHAND
83	ASANBANI	SHIKARIPARA	DUMKA	JHARKHAND
84	CHIRAPATHAR	SHIKARIPARA	DUMKA	JHARKHAND
85	CHANDANAGARIA	SHIKARIPARA	DUMKA	JHARKHAND
86	PORABANSRI	SHIKARIPARA	DUMKA	JHARKHAND
87	CHITRAGARIA	SHIKARIPARA	DUMKA	JHARKHAND
88	GHAT HARIPUR	SHIKARIPARA	DUMKA	JHARKHAND
89	HARIPUR	SHIKARIPARA	DUMKA	JHARKHAND
90	RAMJAM	SHIKARIPARA	DUMKA	JHARKHAND
91	GOSAINPAHARI	SHIKARIPARA	DUMKA	JHARKHAND



92	DALDALI	SHIKARIPARA	DUMKA	JHARKHAND
93	AAMCHUA	SHIKARIPARA	DUMKA	JHARKHAND
94	BENAGADIYA	SHIKARIPARA	DUMKA	JHARKHAND
95	CHANDANPUR	SHIKARIPARA	DUMKA	JHARKHAND
96	CHITRAGADIYA	SHIKARIPARA	DUMKA	JHARKHAND
97	HATHBADI	SHIKARIPARA	DUMKA	JHARKHAND
98	HULASDANGAAL	SHIKARIPARA	DUMKA	JHARKHAND
99	JAMRUPANI	SHIKARIPARA	DUMKA	JHARKHAND
100	KATHPAHARI	SHIKARIPARA	DUMKA	JHARKHAND
101	MANJHLADIH	SHIKARIPARA	DUMKA	JHARKHAND
102	PAHADPUR	SHIKARIPARA	DUMKA	JHARKHAND
103	PAUDABASURI	SHIKARIPARA	DUMKA	JHARKHAND
104	PAUDAVVASARIA	SHIKARIPARA	DUMKA	JHARKHAND
105	PAUDAVVASURI	SHIKARIPARA	DUMKA	JHARKHAND
106	RAMZAM	SHIKARIPARA	DUMKA	JHARKHAND
107	SATPAKUKIYA	SHIKARIPARA	DUMKA	JHARKHAND
108	SHAHRPUR	SHIKARIPARA	DUMKA	JHARKHAND
109	SHEHERBEDA	SHIKARIPARA	DUMKA	JHARKHAND
110	SHEHRBERA	SHIKARIPARA	DUMKA	JHARKHAND
111	SIMRA BARATANR	SHIKARIPARA	DUMKA	JHARKHAND
112	SIULIBONA	SHIKARIPARA	DUMKA	JHARKHAND



District Mining Office, Dumka.

Letter of Intent Details

SL No	Grant Date	Lease Applicant	Anchal	Village	Plot No.	Area (In Acre)	Letter no. and Dated
1	31.10.2019	अनंतधारा कन्स्ट्रक्शन प्रा० लि० निदेशक - श्री दीपक कुमार सिंह, पिता - श्री आर. के. सिंह, पता - रविन्द्रपथ, रांची पटना रोड, पोस्ट+थाना - सदर हजारीबाग, जिला - हजारीबाग।	शिकारीपाड़ा	पहाड़पुर	1168, एवं 1171	4.45 एकड़	पत्रांक 1331 / एम० दिनांक 04.11.2019
2	25.07.2020	श्री वैद्यनाथ राय, पिता - स्व० लखन राय, ग्राम - मंजिराबाड़ी, पोस्ट - रांगा मिशन, थाना - जामा, जिला - दुमका।	गापीकान्दर	अमरपुर	637, 638, 639, 641, 642, 643 एवं 644	5.60 एकड़	पत्रांक 1250 / एम० दिनांक 28.07.2020
3	25.07.2020	मेसर्स मॉ स्टोन प्रोजेक्ट, पार्ट० - श्री अर्जुन मंडल, पिता - श्री शरत चन्द्र मंडल, ग्राम - चापुडिया, पोस्ट - आसनबनी, थाना - रानेश्वर, जिला - दुमका, 2. श्री महेंद्र पोद्दार, पिता - सुमेश्वर पोद्दार, ग्राम+पोस्ट - डेउचा, थाना - मो० बाजार, जिला - योर्भूम (प०ब०), एवं 3. श्री संजीव दे, पिता - रघुनाथ दे, ग्राम+पोस्ट+थाना - रानेश्वर, जिला - दुमका।	शिकारीपाड़ा	कुलकुलीडगाल	517, 518, 519 एवं 521/अंश,	3.47 एकड़	पत्रांक 1251 / एम० दिनांक 28.07.2020
4	12.10.2019	श्री राजेश कुमार, पिता - स्व० रामजी प्रसाद भगत, पता - हरिमति अपार्टमेंट, होटल ग्रीनपार्क के पीछे, लालपुर, थाना - लालपुर, जिला - रांची, झारखण्ड, 834001।	गापीकान्दर	छोटाबथान पहाड़ी	141/अंश, 142/अंश, 143, 148/अंश, 149/अंश, एवं 150/अंश,	6.92 एकड़	पत्रांक 1247 / एम० दिनांक 16.10.2019
5	16.06.2020	मेसर्स मेवाड इन्टर प्राइजेज, प्र० - ओम प्रकाश शर्मा, पिता - श्री डाल चन्द्र शर्मा, वर्तमान पता - ग्राम - पिनरगडिया, पोस्ट - बेनागडिया थाना - शिकारीपाड़ा, जिला - दुमका, स्थायी पता - ग्राम - गाडरी मौहल्ला, तहसील रामपुर, जिला - भीलवाड़ा 311801।	शिकारीपाड़ा	पोखरिया	1242/अंश,	3.10 एकड़	पत्रांक 941 / एम० दिनांक 18.06.2020



6	27.05.2021	श्री रामरूप भगत, पिता - स्व० बैजनाथ भगत ग्राम-तेलियाचक बाजार, पोस्ट-कोठीकुण्ड, थाना - काठीकुण्ड, जिला - दुमका।	गाँपोकान्दर	रामबनी	55/अंश, एवं 60/अंश,	6.76 एकड़	पत्रांक 758/एम० दिनांक 31.05.2021
7	11.03.2024	मा० अब्दूल मिनाग असारो, पिता - जूनूस मियां, ग्राम+पोस्ट - सरसडंगाल, थाना - शिकारीपाड़ा, जिला - दुमका।	शिकारीपाड़ा	बरमसिया	1813, 1814, 1815, 1816, 1818, 1822, 1823, 1824 एवं 1825	4.09 एकड़	पत्रांक 276/एम० दिनांक 12.03.2024
8	11.03.2024	सृष्टि स्टोन वक्स, श्री धमेन्द्र कुमार सिंह, पिता-श्री रामानन्द सिंह, स्थायी पता-50 हेम कालोनी राजेन्द्र नगर, पो०+थाना-मधुबनी, जिला-पूर्णिया (बिहार) 854301। वर्तमान पता-ग्राम+पो०-शिकारीपाड़ा, थाना-शिकारीपाड़ा, जिला-दुमका 816118।	शिकारीपाड़ा	मंझलाडीह	1376, 1377/पाट, 1378, 1379 एवं 1395/पाट	4.47 एकड़	पत्रांक 311/एम० दिनांक 13.03.2024
9	22.06.2024	छाटा बुधराय हाँसदा पिता-स्व० सिद्धो हाँसदा, ग्राम-मोहलबना, पो०-पकदाहा, थाना-शिकारीपाड़ा, जिला-दुमका।	शिकारीपाड़ा	सालबाना पहाड़	137/पाट, 140/पाट, 141/पाट एवं 142/पाट	6.12 एकड़	पत्रांक 719/एम० दिनांक 22.06.2024
10	27.06.2024	मसस रूद्रा मिनरल्स, प्रो०-श्री अमर मंडल पिता-स्व० रामनारायण मंडल, ग्राम-सेजाकोड़ा, पो०+थाना-जामा, जिला-दुमका।	शिकारीपाड़ा	चिरापाथर	445, 425/अंश, 435, 437, 441/अंश, 442/अंश, 426, 433, 434, 438, 439, 440/अंश, 481, 482, 483, 428, 436, 484, एवं 485,	3.66 एकड़	पत्रांक 725/एम० दिनांक 27.06.2024
11	27.06.24	मसस रूद्रा मिनरल्स, प्रो०-श्री अमर मंडल पिता-स्व० रामनारायण मंडल, ग्राम-सेजाकोड़ा, पो०+थाना-जामा, जिला-दुमका।	शिकारीपाड़ा	चिरापाथर	489, 490, 491, 492, 499, 502, 503, 504, 507, 508, 509, 510, 514, 515, 516/अंश, 517/अंश, 518/अंश, 519/अंश, 520/अंश, 1065 एवं 1066,	4.66 एकड़	पत्रांक 723/एम० दिनांक 27.06.2024
12	27.06.2024	मसस ईस्ट इण्डिया स्टोन क्वारी, प्रो०-इमरान खान, ग्राम+पो०-आसनबनी, थाना-रानेश्वर, जिला-दुमका।	सरयाहाट	चोरबटिया	43/47, 45/50, 46/51, 47/47, 48/51, 3/10, 4/11, 8/9, 9/8, 2/2, 3/2, एवं 4/2,	5.64 एकड़	पत्रांक 733/एम० दिनांक 28.06.2024



13	27.06.2024	मसस बाबा बासुकीनाथ ट्रडस, प्रो०-श्री संतोष कुमार, पिता-श्री आनंदी सिंह, स्थायी पता-ग्राम+पो०-सनकुरहा, थाना-जमुई, जिला-जमुई (बिहार) 811307 वर्तमान पता-घाट रसिकपुर, दुधानी, नियर युको बैंक, पो०+थाना-दुमका, जिला-दुमका।	शिकारीपाड़ा	आमचुआँ	632, 640/पाट, 641, 642, 643, 644, 645, 646/पाट, 647/पाट, 648, 649, 650, 651, 656/पाट एवं 657/पाट	5.30 एकड़	पत्रांक 729/एम० दिनांक 28.06.2024
14	28.06.2024	मसस बाबा बासुकीनाथ ट्रडस, प्रो०-श्री संतोष कुमार, पिता-श्री आनंदी सिंह, स्थायी पता-ग्राम+पो०-सनकुरहा, थाना-जमुई, जिला-जमुई (बिहार) 811307 वर्तमान पता-घाट रसिकपुर, दुधानी, नियर युको बैंक, पो०+थाना-दुमका, जिला-दुमका।	शिकारीपाड़ा	सालबाना पहाड़	255/पाट	3.80 एकड़	पत्रांक 739/एम० दिनांक 29.06.2024
15	29.06.2024	लाइम्सवुड कन्सट्रक्शन प्रा० लि० निदेशक - अविनाश कुमार पिता-श्री सुदेश्वर सिंह द्वारा अजित कुमार सिंह, भूरभूरा मोड़, रिखिया रोड देवघर, झारखण्ड-814112 स्थायी पता-रानीपुर, पो०-कोरारा, थाना-पालीगंज, जिला-पटना 804401 2. संजय कुमार सिंह, पिता-श्री ठाकुर ललन प्रसाद सिंह, पता-फ्लैट नं०-402 ए०, जगसुमन अपार्टमेंट, आर्यन नगर, कटहल मोड़ रोड, पुर्नदाग, जिला-रांची, झारखण्ड 834002। 3. ओम प्रकाश शर्मा, पिता-श्री डालचन्द्र शर्मा, ग्राम + पो० -आशाहोली, थाना-रायपुर, जिला-भेलबाड़ा, राजस्थान 311801	शिकारीपाड़ा	हाथबाड़ी	1, 2, 3, 4/अंश, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16/अंश, 17/अंश, 18, 19, 20, 23, 24, 25, 26, 28/अंश, 30/अंश, 31/अंश, 32/अंश, 35/अंश एवं 42/अंश,	6.90 एकड़	पत्रांक 775/एम० दिनांक 06.07.2024
16	29.06.2024	श्री शुभम केशरी, पिता-श्री दिलीप केशरी ग्राम-बेनियाग्राम, पो०-दखलवाटी, थाना-माड़ग्राम, जिला-वीरगूम (पं०बं०)	शिकारीपाड़ा	सालबाना पहाड़	147/पाट	7.27 एकड़	पत्रांक 748/एम० दिनांक 01.07.2024
17	30.06.2024	मिठुन असारो, पिता - इस्लाम मियां, ग्राम+पोस्ट - सरसडंगाल, थाना - शिकारीपाड़ा, जिला - दुमका।	शिकारीपाड़ा	सालबाना पहाड़	144 एवं 147/अंश	5.40 एकड़	पत्रांक 751/एम० दिनांक 03.07.2024
18	04.07.2024	मसस रूद्रा मिनरल्स, प्रो० - श्री अमर मंडल, पिता - स्व० रामनारायण मंडल, ग्राम - सेजाकोड़ा, पोस्ट+थाना - जामा, जिला - दुमका	शिकारीपाड़ा	रामजाम	515 एवं 520	6.34 एकड़	पत्रांक 771/एम० दिनांक 05.07.2024



19	05.07.2024	पार्ट-दोपक कुमार सिंह, पिता-स्व0 राजेश्वरी सिंह ग्राम+पो0-शिकारीपाड़ा, थाना-शिकारीपाड़ा 2. जोसा किस्कू, पिता-स्व0 होपना किस्कू, ग्राम-मझलाडीह, पो0-बेनागड़िया, थाना-शिकारीपाड़ा दोनो का जिला-दुमका।	शिकारीपाड़ा	मझलाडीह	718, 719, 720 एवं 721/पार्ट	3.27 एकड़	पत्रांक 780/एम0 दिनांक 06.07.2024
20	06.07.2024	मसस बाबा बैधनाथ स्टोन वक्स पार्ट0-श्रीमति प्रिया राज, पिता-निठालू प्रसाद, ग्राम-ठाडिदुलामपुर, पो0-देवसंघ थाना-कुण्डा, जिला-देवघर। 2. मो0 अनवारूल अंसारी, पिता-हन्नास अंसारी, ग्राम-तोईद, पो0+थाना-हिरणपुर जिला-पाकुड़, झारखण्ड-816104	शिकारीपाड़ा	मझलाडीह	1374, 1383, 1384, 1385, 1387/पार्ट, 1388 एवं 1389	4.48 एकड़	पत्रांक 788/एम0 दिनांक 09.07.2024
21	06.07.2024	मसस मा शोतला स्टोन वक्स, पार्ट0-श्री संजय कुमार यादव, पिता-श्री द्वारिका प्रसाद यादव, ग्राम-रामपुर करारा, पो0-सकरीगलीघाट, थाना-मुफसिल साहेबगंज, जिला-साहेबगंज 816115 2. ईस्लाम मियाँ, पिता-सोहराब मियाँ, ग्राम-सहरपुर, पो0-बेनागड़िया, थाना-शिकारीपाड़ा, जिला-दुमका, 816103 3. राजू अंसारी, पिता-स्व0 नजरूल हुसैन, ग्राम+पो0-सरसडंगाल, थाना-शिकारीपाड़ा, जिला-दुमका।	शिकारीपाड़ा	चन्दनगड़िया	933, 938, 939, 940, 941/पार्ट एवं 942	6.99 एकड़	पत्रांक 786/एम0 दिनांक 09.07.2024
22	06.07.2024	श्री दिपेश कुमार, पिता-श्री धनंजय कुमार दास, ग्राम-खुशबांध, दुर्गा मंदिर के निकट, पो0+थाना-दुमका, जिला-दुमका 814101 स्थायी पता - 1-10-105 तीसरी मंजिल मयूरी बाग, निकट, अम्बेडकर कम्यूनिटी सेन्टर, सिकन्दराबाद, हैदराबाद-500016,	गोपीकान्दर	रामबनी	369/पार्ट	6.00 एकड़	पत्रांक 787/एम0 दिनांक 09.07.2024
23	09.07.2024	श्री रितेश कुमार, पिता-श्री धनंजय कुमार दास, ग्राम-खुशबांध, दुर्गा मंदिर के निकट, पो0+थाना-दुमका, जिला-दुमका 814101	गोपीकान्दर	पिण्डरगांडिया	195 एवं 196	4.98 एकड़	पत्रांक 793/एम0 दिनांक 09.07.2024



24	12.07.2024	ज्याति कन्सट्रक्शन एण्ड इंजिनियरींग प्रा0 लि0 निदेशक-श्री रंजीत कुमार, पिता-श्री राम यश राय, श्री सुरजीत कुमार, पिता-स्व0 राम वन्दन सिंह, दोनो का पत्ता-मकान नं0-ए/3, विवेकानन्द पार्क लेन ए0 एस0 आई पाटलीपुत्र कॉलोनी पटना 800013	शिकारीपाड़ा	सालबाना पहाड़	159/अंश, 160, 161/अंश एवं 162	5.06 एकड़	पत्रांक 825/एम0 दिनांक 15.07.2024
25	12.07.2024	मेसर्स ईस्ट इण्डिया स्टोन क्वारी, 2 प्रो0-इमरान खान, ग्राम+पो0-आसनबनी, थाना-रानेश्वर, जिला-दुमका।	सरैयाहाट	चारबाटिया	44/49, 59/67, 61/69, 62/70, एवं 63/71	3.60 एकड़	पत्रांक 824/एम0 दिनांक 15.07.2024
26	19.07.2024	अमित कुमार डोकानियाँ पिता-श्री रमेश कुमार डोकानियाँ, ग्राम-सबजी मंडी रोड, पो0+थाना-बरहरवा, जिला-साहेबगंज	शिकारीपाड़ा	चन्दनगडिया	39, 40, 44, 46, 47, 48, 49, 50, 51 एवं 52	7.40 एकड़	पत्रांक 844/एम0 दिनांक 20.07.2024
27	20.07.2024	मां0 आलम अंसारी पिता-मो0 गुलाम अंसारी ग्राम-कालाकादा, पो0-पाटजौर, थाना-रानेश्वर, जिला-दुमका।	शिकारीपाड़ा	सालबाना पहाड़	240, 241, 242, 247 एवं 248	5.80 एकड़	पत्रांक 915/एम0 दिनांक 06.08.2024
28	15.07.2024	श्री बालाजी स्टोन एण्ड मिनरल्स प्राजैक्ट (ओ.पी.), प्रो लि0, निदेशक - श्री नयन कुमार मंडल, पिता - स्व0 दुलाल मंडल, ग्राम+पोस्ट - कठलिया, थाना - मसलिया, जिला - दुमका।	शिकारीपाड़ा	पहाड़पुर	957/अंश, 1223, 1224, 1225/अंश, 1227/अंश, 1231, 1234, 1236 एवं 1237	7.37 एकड़	पत्रांक 837/एम0 दिनांक 19.07.2024
29	19.07.2024	श्री विजय प्रसाद भगत, पिता-स्व0 सुदामा प्रसाद भगत, ग्राम-खरौनी बाजार, पो0-कास्डीह, थाना-गोपीकान्दर, जिला-दुमका।	गोपीकान्दर	छतरचुआँ	799, 800, 802, 803, 900, 901, 902, 905, 906, 907 एवं 909	6.65 एकड़	पत्रांक 849/एम0 दिनांक 20.07.2024
30	18.07.2024	मेसर्स बोल बम स्टोन प्रोडक्ट प्रो0-चन्द्रदेव गोस्वामी पिता-श्री भवतारण गोस्वामी ग्राम-प्रतापपुर, पो0-राजबांध प्लासी, थाना-शिकारीपाड़ा, जिला-दुमका।	शिकारीपाड़ा	चित्रागडिया	412, 413, 414, 415, 417, 418, 419, 420, 433, 434, 435, 436, 437 एवं 438	2.88 एकड़	पत्रांक 846/एम0 दिनांक 20.07.2024



31	04.07.2024	मिससे गणपति स्टान वक्स, पार्ट-श्री संजय कुमार मंडल, पिता-स्व0 सुशील मंडल, ग्राम-खरौनी बाजार, पो0-कारुडीह, थाना-गोपीकान्दर, जिला-दुमका 2 श्री संदीप कुमार, पिता-श्री मनोहर प्रसाद साह, ग्राम-डंगालपाड़ा, हिजला रोड, पो0+थाना+जिला-दुमका।	गाँपोकान्दर	सुगापहाड़ी	201 / पार्ट	3.54 एकड़	पत्राक 774 / एम0 दिनांक 05.07.2024
32	15.07.2024	ज्योति कन्सल्टेशन एण्ड इंजिनियरींग प्रा0 लि0 निदेशक-श्री रंजीत कुमार, पिता-श्री राम यश राय, श्री सुरजीत कुमार, पिता-स्व0 राम वन्दन सिंह, दोनों का पता-मकान नं0-ए/3, विवेकानन्द पार्क लेन ए0 एस0 आई पाटलीपुत्र कॉलोनी पटना 800013	शिकारीपाड़ा	सालबाना पहाड़	267 / पार्ट, 268 / पार्ट, 270 / पार्ट, 271 / पार्ट, 272 / पार्ट एवं 273 / पार्ट	5.67 एकड़	पत्राक 836 / एम0 दिनांक 19.07.2024
33	15.07.2024	मा अम्ब स्टान प्राडक्ट प्रा0-श्री अजय कुमार भगत, पिता-श्री वैजनाथ भगत ग्राम+पो0-गणपुरा, थाना-पाकुड़िया, जिला-पाकुड़।	शिकारीपाड़ा	मझलाडीह	730, 734, 735, 736, 737, 738, 748 / पार्ट एवं 749 / पार्ट	6.56 एकड़	पत्राक 839 / एम0 दिनांक 19.07.2024
34	15.07.2024	श्री रजनीश गुप्ता, पिता - स्व0 राजेन्द्र प्रसाद गुप्ता, ग्राम - उत्तरमाठपाड़ा वार्डनं0 - 13, पोस्ट+थाना - रामपुरहाट, जिला - वीरभूम (पं0बं0) 731224	शिकारीपाड़ा	पौड़ावासूरी	828, 829, 830, 831, 832, 833, 869, 870, 871, एवं 872,	6.88 एकड़	पत्राक 858 / एम0 दिनांक 23.07.2024
35	15.07.2024	श्री राकेश कुमार यादव, पिता - श्री अनुपलाल यादव, ग्राम - अलीगंज वार्ड नं0 - 13, पोस्ट+थाना+जिला - बाँका, राज्य - बिहार, 813102	शिकारीपाड़ा	भलाटाड़	2258, 2259, 2260 / अंश, 2261, 2262, 2263, एवं 2264	4.23 एकड़	पत्राक 838 / एम0 दिनांक 19.07.2024
36	18.07.2024	श्री रमेश कुमार डोकानियाँ, पिता-स्व0 ओम प्रकाश डोकानियाँ, ग्राम-सबजी मंडी रोड, पो0+थाना-बरहरवा, जिला-साहेबगंज	शिकारीपाड़ा	चन्दनगड़िया	21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 36, 37, 38, 42 एवं 43	4.80 एकड़	पत्राक 845 / एम0 दिनांक 20.07.2024
37	09.07.2024	मिससे सत्या कन्सल्टेशन, प्रा0-शीलजीत कुमार सिंह, पिता-सुरेन्द्र सिंह, ग्राम-शास्त्रीनगर, बन्दरजोरी, पो0+थाना-दुमका, जिला-दुमका।	शिकारीपाड़ा	कन्दपहाड़ी	917, 918, 919, 920, 921 एवं 925	3.01 एकड़	पत्राक 818 / एम0 दिनांक 13.07.2024



38	24.07.2024	इस्लाम मियाँ पिता--सोहराब मियाँ, ग्राम--शहरपुर, पो0--बेनागड़िया थाना--शिकारीपाड़ा, जिला--दुमका।	शिकारीपाड़ा	सालबोना पहाड़	138, 139 एवं 147/पाटे	7.39 एकड़	पत्रांक 902/एम0 दिनांक 05.08.2024
39	07.08.2024	शिव कुमार वास्की पिता--स्व0 मूटाल वास्की ग्राम--मनका पहाड़ी, पो0--निश्चिंतपुर, थाना--जामा, जिला--दुमका 814110	शिकारीपाड़ा	आमचुआ	64, 65, 68, 69, 70, 71, 72, 73, 77, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127/पाटे, 128, 129 एवं 131	6.84 एकड़	पत्रांक 924/एम0 दिनांक 08.08.2024
40	07.08.2024	निहार खॉं पिता--निखिल चन्द्र खॉं ग्राम--मकड़ापहाड़ी, पो0--सरसडंगाल, थाना--शिकारीपाड़ा, जिला--दुमका।	शिकारीपाड़ा	सालबोना पहाड़	148, 150/पाटे, 151 एवं 152/पाटे	4.01 एकड़	पत्रांक 931/एम0 दिनांक 08.08.2024
41	08.08.2024	मंसस वरुण सिंह सिसोडिया प्रा0 लि0, प्रबंध निदेशक - श्री वरुण सिंह, पिता - श्री कुमार भरत, स्थायी पता - 12 किशोर भवन, जसटिस मंडल पथ डी.ए.पी. स्कूल के पूर्व, राजवंशी नगर, पटना (बिहार) 800023	शिकारीपाड़ा	चन्दनगड़िया	905/अंश, 906/अंश, 907, 908, 909, 910, 911, 912/अंश, 918/अंश, 919, 920/अंश, 921/अंश, एवं 922/अंश,	5.19 एकड़	पत्रांक 946/एम0 दिनांक 12.08.2024
42	07.08.2024	मंसस जाहार स्टोन प्राइवट प्रा0 लि0, पाटे0 - श्री अमित मंडल, पिता - श्री अजून मंडल, ग्राम+पोस्ट - आसनबनी, थाना - रानेश्वर, जिला - दुमका, श्री षष्ठी पद मंडल, पिता - श्री सुजल चन्द्र मंडल, ग्राम+पोस्ट - आसनबनी, थाना - रानेश्वर, जिला - दुमका।	शिकारीपाड़ा	कुरुदा	227, 228, 229, 230, 231, 232, 234, 235, 236 एवं 237	4.57 एकड़	पत्रांक 939/एम0 दिनांक 10.08.2024
43	08.08.2024	मंसस श्री स्टार स्टोन वक्स, प्रो0--दागियल दुडू, पिता--स्व0 प्रभु दुडू, पता--पुराना दुमका, पो0+थाना+जिला--दुमका।	शिकारीपाड़ा	हरिपुर	401/पाटे, 402, 403, 404, 405, 406, 407/अंश, 408, 413/अंश, 446/अंश, 470/अंश, एवं 471/अंश,	5.95 एकड़	पत्रांक 947/एम0 दिनांक 12.08.2024
44	08.08.2024	श्री विनोद कुमार सिंघानिया, पिता - स्व0 हरिप्रसाद सिंघानिया, पता - स्कूलपाड़ा, पोस्ट+थाना+जिला - दुमका।	शिकारीपाड़ा	शहरपुर	115, 116, 117/अंश, 119, 120, 121, 122 एवं 365	3.60 एकड़	पत्रांक 948/एम0 दिनांक 12.08.2024



45	10.08.2024	मेसर्स स्पार्टन माईनिंग पार्ट-श्री सचिन कुमार दास, पिता-विश्वनाथ दास ग्राम-रंगामसलिया दलाही, पो0-केन्दघाटा थाना-मसलिया, जिला - दुमका। 2. मुस्तफा मियाँ, पिता-सफुर मियाँ ग्राम-देवदाहा, पो0-बांसपहाड़ी, थाना-शिकारीपाड़ा दोनो का जिला-दुमका।	शिकारीपाड़ा	मझलाडीह	742, 743 / पाट एवं 747 / पाट	4.08 एकड़	पत्रांक 952 / एम0 दिनांक 12.08.2024
46	10.08.2024	मां0 अब्दुस्सलाम अंसारी, पिता-मां0 गुलाम रसुल, ग्राम-कालाकाटा, पो0-पाटजोर, थाना-रानेश्वर, जिला-दुमका।	शिकारीपाड़ा	बरमसिया	1886, 1892, 1893, 1894, 1897 एवं 1945, 1944	3.71 एकड़	पत्रांक 963 / एम0 दिनांक 16.08.2024
47	12.08.2024	पार्ट-1. अरुण कुमार साह, पिता-स्व0 बालगोविन्द साह, ग्राम+पो0-शिकारीपाड़ा, थाना-शिकारीपाड़ा, जिला-दुमका। 2. लाल बाबु अंसारी, पिता-यासिन अंसारी, ग्राम-डाकोपाड़ा, पो0-निमदासपुर, थाना-मां0 बाजार, जिला-वीरभूम (पं0बं0)	शिकारीपाड़ा	पहाड़पुर	818, 819, 820, 821 / पाट, 822 / पाट, 823 / पाट एवं 824 / पाट	5.84 एकड़	पत्रांक 959 / एम0 दिनांक 16.08.2024
48	12.08.2024	हनुमान सिंह, पिता-बिशन राम, ग्राम-कुलौठ खुर्द, पो0-सुरजगढ़ कुलोथ खुर्द, कुलौठ कला, थाना-सुरजगढ़, जिला-झुझुन (राजस्थान) 333033	शिकारीपाड़ा	सालबाना पहाड़	123 / पाट	3.70 एकड़	पत्रांक 960 / एम0 दिनांक 16.08.2024
49	12.08.2024	सतोष यादव, पिता-श्री प्रयाग यादव, ग्राम- चारमील, पो0-देवचंदा, थाना-बरही, जिला-हजारीबाग, 825405	शिकारीपाड़ा	शहरपुर	187 / पाट, 188 / पाट, 189 / पाट, 190, 191, 192, 193 / पाट, 194, 195, 196, 197 / पाट, 218 / पाट एवं 219	6.07 एकड़	पत्रांक 961 / एम0 दिनांक 16.08.2024
50	16.08.2024	मेसर्स जय बाबा बजरगबली स्टोन मिल, पो0-श्री तापस भगत, पिता-श्री हरिशंकर भगत, ग्राम-निश्चितपुर, होलीहोम स्कूल के निकट, पो0+पो0-रामपुरहाट, जिला-वीरभूम (पं0बं0)।	शिकारीपाड़ा	सालबाना पहाड़	260 / पाट, 261 / पाट, 263, 264 एवं 265 / पाट	5.10 एकड़	पत्रांक 968 / एम0 दिनांक 17.08.2024
51	16.08.2024	श्री अमन सिंह, पिता - स्व0 रणवीर सिंह, ग्राम - जामुगडिया, पोस्ट - प्रतापपुर, थाना - शिकारीपाड़ा, जिला - दुमका, झारखण्ड, पिन - 816118	शिकारीपाड़ा	मझलाडीह	1344 / अंश, 1345, 1368, 1369, एवं 1372	4.80 एकड़	पत्रांक 969 / एम0 दिनांक 17.08.2024



52	16.08.2024	श्री महेश यादव, पिता - श्री रामेश्वर यादव, स्थायी पता - सतडीहा, पोस्ट - सरमाटांड, थाना - जयनगर, जिला - कोडरमा, 825102 वर्तमान पता - सरसडंगाल, थाना - शिकारीपाड़ा, जिला - दुमका।	शिकारीपाड़ा	चित्रागड़िया	1606, 1607, 1608, 1609, 1611, 1620/अंश, 1621, 1622, 1623, एवं 1624	4.25 एकड़	पत्राक 970/एम0 दिनांक 17.08.2024
53	16.08.2024	श्री सजय कुमार साह, पिता-श्री मुनिलाल साह, ग्राम+पो0-पालाजोरी, थाना-पालाजोरी, जिला-देवघर।	मसालिया	अम्बा	410, 411 एवं 415	3.17 एकड़	पत्राक 971/एम0 दिनांक 17.08.2024
54	16.08.2024	ज्योति कन्सल्टेशन एण्ड इंजिनियरींग प्रा0 लि0 निदेशक-श्री रंजीत कुमार, पिता-श्री राम यश राय, श्री सुरजीत कुमार, पिता-स्व0 राम वन्दन सिंह, दोगो का पता-मकान नं0-ए/3, विवेकानन्द पार्क लेन ए0 एस0 आई पाटलीपुत्र कॉलोनी पटना 800013	शिकारीपाड़ा	सालबोना पहाड़	147 / पाट	6.94 एकड़	पत्राक 972/एम0 दिनांक 17.08.2024
55	16.08.2024	श्री शारदिन्दु माल, पिता-श्री कन्हैया माल, ग्राम-चकलामाड़, रामपुरहाट, पो0+थाना-रामपुरहाट, जिला-वीरभूम (पं0बं0)।	शिकारीपाड़ा	मझलाडोह	1289/पाट, 1292/पाट, 1293, 1355/अंश, 1356, 1357/अंश, 1358, 1360/पाट, 1366/अंश एवं 1367/अंश,	7.39 एकड़	पत्राक 973/एम0 दिनांक 17.08.2024
56	17.08.2024	श्री राणा राकेश प्रताप सिंह पिता-श्री राणा रंजय प्रताप सिंह, ग्राम-ग्रॉट स्टेट, पो0+थाना+जिला-दुमका, झारखण्ड	शिकारीपाड़ा	चन्दनगड़िया	947/पाट, 948/पाट, 949/पाट, 964/अंश एवं 966/अंश	5.49 एकड़	पत्राक 977/एम0 दिनांक 20.08.2024
57	17.08.2024	श्री हंस राज, पिता-श्री नवीन कुमार, ग्राम-खपुरा, पो0-पकडीवारावां, थाना-पकडीवारावां, जिला-नवादा, बिहार।	शिकारीपाड़ा	सालबोना पहाड़	121/पाट, 122 एवं 123/पाट	4.63 एकड़	पत्राक 984/एम0 दिनांक 22.08.2024
58	27.08.2024	प्रत्युषधर झा पिता-स्व0 विद्याधर झा, ग्राम-सेन्ट्रल जेल के नजदीक, ग्रॉट स्टेट दुमका, पो0+थाना+जिला-दुमका।	शिकारीपाड़ा	लावापाड़ा	93, 94, 95/पाट एवं 148/पाट	5.70 एकड़	पत्राक 1000/एम0 दिनांक 28.08.2024
59	27.08.2024	जय विष्णु स्टान प्रॉडक्ट, प्रॉ0 - श्री विरेन्द्र साव, पिता - स्व0 गोविन्द साव, ग्राम - भीमडीह, पोस्ट+थाना - नवलसाही, जिला - वीरभूम (पं0बं0)।	शिकारीपाड़ा	चित्रागड़िया	37, 38, 39/अंश, 41, 42, 43 एवं 49	5.30 एकड़	पत्राक 1002/एम0 दिनांक 28.08.2024



60	27.08.2024	विनित स्टान पार्ट-श्री मगोज कुमार सिंह (पहाड़िया) पिता-स्व0 देवेन्द्र सिंह, ग्राम-नाहरपार्क (एल0आई0सी0 कॉलोनी) पो0+थाना+जिला-दुमका। 2. डिजन देहरी, पिता-हाडो देहरी, ग्राम-सुगापहाड़ी, पो0-धरमपुर, थाना-गोपीकान्दर, जिला-दुमका।	गापीकान्दर	सुगापहाड़ी	02 एवं 03	5.05 एकड़	पत्रांक 1009/एम0 दिनांक 29.08.2024
61	29.08.2024	स्वास्तिक माईनिंग एजेंसी, पार्ट0 - नेहल कुमार चावड़ा, पिता - स्व0 जितेन्द्र कुमार चावड़ा, ग्राम+पोस्ट - बाकुड़ी, थाना - तीनपहाड़, जिला - साहेबगंज, 2. उत्तम कुमार सिंह, पिता - सत्येन्द्र सिंह, ग्राम+पोस्ट+थाना - राजमहल, जिला - साहेबगंज, 3. संदीप कुमार महतो, पिता - श्री अकलू प्रसाद महतो, ग्राम - काठघर, पोस्ट - मानसिंहपुर, थाना+जिला - साहेबगंज।	शिकारीपाड़ा	चन्दनगड़िया	924/अश, 925, 926/अश, 927, 931/अश, 932/अश, 934, 936/अश, 951/अश, एवं 952/अश	7.21 एकड़	पत्रांक 1014/एम0 दिनांक 31.08.2024
62	29.08.2024	श्री रवि शंकर कुमार, पिता - श्री उपेन्द्र प्रसाद सिंह, पता - मकान नं0 298, वार्ड नं0 - 04, सिंह वोरवेल के निकट, विलियम्स टाउन, श्री कृष्णापुरी देवघर, पोस्ट+थाना+जिला - देवघर, 814112	शिकारीपाड़ा	चण्डीपुर	77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97 एवं 98,	6.51 एकड़	पत्रांक 1015/एम0 दिनांक 31.08.2024
63	10.09.2024	पार्ट0 - कलौम अंसारी, पिता - हासिल मियां, ग्राम - ठाकरपुर, पोस्ट - कोल्हा, थाना - काठीकुण्ड, जिला - दुमका, 814103 2. मो0 वाहिद आलम, थपता - स्व0 मो0 मोजिउर रहमान, ग्राम - डौं0 पास डी0एन शाह सलेमपुर, सुतुरखाना, पोस्ट - बांक, थाना - मुफसिल मुंगेर, जिला - मुंगेर, (बिहार)।	शिकारीपाड़ा	शहरपुर	136, 138/अश, 139, 140, 146/अश, 147, 148, 149 एवं 150	4.66 एकड़	पत्रांक 1045/एम0 दिनांक 12.09.2024



64	10.09.2024	विक्रम शर्मा, पिता - श्री गोकुल मिस्त्री, पता - रसिकपुर वार्ड नं० - 01, पोस्ट+थाना+जिला - दुमका, राज्य - झारखण्ड 814101	शिकारीपाड़ा	डिम्बादाहा	86/अंश, 87, 88, 90/अंश, 93/अंश, 94/अंश, 95, 96, 97, 98, 99, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114 एवं 116.	4.89 एकड़	पत्राक 1051/एम० दिनांक 12.09.2024
65	10.09.2024	मसर्स शिव शंकर इन्टरप्राइजेज, पार्ट-श्री विदित कुमार, पिता-श्री विरेन्द्र वीर, ग्राम-सुभाष बाजार, 1175 काबली गेट, जिला-मेरठ (उ०प्र०) 2. दीपक कुमार, पिता-श्री अशोक कुमार जयसवाल, पता-एच०जी० हाउसींग कॉलोनी नं०-11, थाना-कोर्टमोड़, जिला-धनबाद।	गोपीकान्दर	रामवनी	139, 140, 141, 142 एवं 217	4.96 एकड़	पत्राक 1065/एम० दिनांक 18.09.2024
66	11.09.2024	संजय प्रसाद सिंह, पिता - श्री राजनन्दन सिंह, पता - गौशाला रोड द्वितीय तल्ला कर्बला के सामने, पोस्ट+थाना+जिला - दुमका।	शिकारीपाड़ा	मझलाडीह	1305/अंश, 1309, 1310, 1311, 1312, 1313 एवं 1319	7.25 एकड़	पत्राक 1059/एम० दिनांक 13.09.2024
67	19.09.2024	मसर्स एलाइस इन्फ्रा एण्ड माइन्स, पार्ट-श्री संजय कुमार वर्मा, पिता-स्व० कैलाश प्रसाद वर्मा, ग्राम+पो०+थाना-शिकारीपाड़ा जिला-दुमका। 2. श्री आशुतोष, पिता-श्री महानन्द चौधरी, पता-हाउस नं०-41, एस०एफ०आर० एच० एस लेन नं०-02 लक्ष्मी नगर साईं मंदिर के पिछे पूर्वी दिल्ली 110092। 3. मो० इरफान, पिता-मोहम्मद इसरार पता-हाउस नं०-41 के एच नं०-137/12, द्वितीय तल्ला, लेन नं०-04 ब्लॉक ए/2 पश्चिमी संतनगर, बुराड़ी उत्तर दिल्ली-110084	शिकारीपाड़ा	सालबाना पहाड़	164/पार्ट एवं 165/पार्ट	1.986 एकड़	पत्राक 1073/एम० दिनांक 18.09.2024
68	19.09.2024	श्री मृत्यूजय कुमार, पिता-रामदर्श शर्मा, ग्राम+पो०-गोरखड़ी, थाना-विक्रम, जिला-पटना(बिहार) 801104	शिकारीपाड़ा	चिरापाथर	416, 417, 418/पार्ट, 419, 420, 634, 635, 636, 670, 671, 679, 673, 674, 675, 676, 677, 678, 679, 688 एवं 689	3.74 एकड़	पत्राक 1085/एम० दिनांक 21.09.2024



69	19.09.2024	श्री अजीत कुमार सिंह, पिता - श्री गोवर्धन प्रसाद सिंह, ग्राम - नारोडीह, पोस्ट - चकाई, थाना - चकाई, जिला - जमुई (बिहार)।	शिकारीपाड़ा	चण्डीपुर	29, 30, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 70 एवं 71,	5.19 एकड़	पत्रांक 1087/एम0 दिनांक 21.09.2024
70	18.09.2024	मसर्स दुडू स्टोन वर्क्स, प्रो० - श्री पतरास दुडू, पिता - स्व० कानू दुडू, पता - चम्पानगर ग्रान्ट स्टेट, पोस्ट+थाना+जिला - दुमका, झारखण्ड 814101	शिकारीपाड़ा	बरमासिया	1862, 1863, 1864, 1871, 1872, 1874, 1875, 1877, 1878, 1879, 1880, 1881, 1882, 1883, एवं 1884	5.55 एकड़	पत्रांक 1088/एम0 दिनांक 21.09.2024
71	20.09.2024	मसर्स यूनिवर्सल ब्लैक स्टोन वर्क्स, प्रो० - मो० असद अली, पिता - स्व० मसहूली, ग्राम+पोस्ट - पिनरगड़िया, थाना-शिकारीपाड़ा, जिला - दुमका, 816103	शिकारीपाड़ा	शहरपुर	170/अंश, 171/अंश, 172/अंश, 173/अंश, 174/अंश, 175/अंश, 181 एवं 182	4.89 एकड़	पत्रांक 1086/एम0 दिनांक 21.09.2024



Identified Stone Deposit Details

Sl. No	Application Date	Lease Applicant	Village	Plot No.	Area (In Acre)
1	09.03.2024	मसूस शिव शंकर इन्टरप्राइजेज, पार्ट-श्री विदित कुमार, पिता-श्री विरेन्द्र वीर, ग्राम-सुभाष बाजार, 1175 काबली रोड, जिला-नेरट (3090) 2. दीपक कुमार, पिता-श्री अशोक कुमार जयसवाल, पता-एच0जी0 हाउसींग कॉलोनी न0-11, थाना-कोर्टमोड, जिला-धनबाद।	समबनी	139, 140, 141, 142 एवं 217	4.96 एकड़
2	14.03.2024	श्री सजय कुमार साह, पिता-श्री मुनिलाल साह, ग्राम+पो0-पालजोरी, थाना-पालजोरी, जिला-देवघर।	अम्बा	410, 411 एवं 415	3.17 एकड़
3	08.04.2024	श्री अमन सिंह, पिता - स्व0 रणवीर सिंह, ग्राम - जामुण्डिया, पोस्ट - प्रतापपुर, थाना - शिकारीपाड़ा, जिला - दुमका, झारखण्ड, पिन - 816118	मञ्जलाडीह	1344 /अंश, 1345, 1368, 1369, एवं 1372	4.80 एकड़
4	11.06.2024	जय विष्णु स्टेन प्रोडक्ट, प्रो - श्री विरेन्द्र साव, पिता - स्व0 गोगिन्द साव, ग्राम - भीमोडीह, पोस्ट+थाना - नवलसाही, जिला - कीरसूम (पू0ब0)।	दिनागडिया	37, 38, 39 /अंश, 41, 42, 43 एवं 49	5.30 एकड़
5	15.06.2024	मसूस गोशनाथ इन्टरप्राइज, पार्ट0 - संख्या रानी, पति - श्री जगबन्धु पंडित, ग्राम - तपसी, पोस्ट - बगसोपा, थाना - जामा, जिला - दुमका, 2. पुनम रश्मी, पति - श्री मणिक चन्द्र पंडित पता - मिनटोरोड कम्प्लेक्स, प्लॉट न0 - 3 / 1, न्यू मिनटोरोड, हॉस्टल ब्लॉक-1, इन्डप्रुस्त सेन्ट्रल, दिल्ली, पिन कोड - 110002	सियालपहाडी	124, 125 /अंश एवं 126 /अंश	7.16 एकड़
6	19.06.2024	श्री महिेश कुमार मंडल, पिता - श्री त्रिलोचन मंडल, पता - वार्ड न0 - 0003, सिंदखरी ताला निरखितपुर, पोस्ट+थाना - रामपुरहाट, जिला - कीरसूम (पू0ब0) 731224, श्री बाबलू मंडल, पिता - स्व0 जितेन्द्र नाथ मंडल, पता - कुतुपाड़ा, थानापाड़ा, पोस्ट+थाना - रामपुरहाट, जिला - कीरसूम (पू0ब0) 731224	शामसुआ	31, 577, अंश, 578, 579, 586, 587, 588, 589, 590, 591, 592, 593, अंश, 594, 595, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 607, 609, 608, अंश, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623 एवं 637,	7.09 एकड़
7	22.06.2024	ज्योति कंसुद्रखन एण्ड इंजिनियरींग प्रो0 लि0 निदेशक-श्री रवीश कुमार, पिता-श्री राम यश राय, श्री सुरजीत कुमार, पिता-स्व0 राम वन्दन सिंह, दोनो का पता-मकान न0-ए/3, विवेकानन्द पार्क जेन ए0 एच0 आई पाटलीपुर कॉलोनी पटना 800013	सालबाना पहाड़	147 /पार्ट	6.94 एकड़
8	26.06.2024	सजय प्रसाद सिंह, पिता - श्री राजनन्दन सिंह, पता - गौशाला रोड द्वितीय तल्ला कर्दला के सामने, पोस्ट+थाना+जिला - दुमका।	सालबाना पहाड़	228 /अंश, एवं 231	2.05 एकड़
9	28.06.2024	श्री राजेंद्र प्रसाद अग्रवाल, पिता - स्व0 वनवाराजलाल अग्रवाल, पता - बालाजी गंगोज, ब्लॉक बी 102ए0, 105डी, विधान नगर रोड, कोलकाला - 700067 (पू0ब0)	शामसुआ	902	6.94 एकड़
10	03.07.2024	श्री हंस राज, पिता-श्री नवीन कुमार, ग्राम-खपुरा, पो0-एकडीवारावां, थाना-एकडीवारावां, जिला-नवादा, बिहार।	सालबाना पहाड़	121 /पार्ट, 122 एवं 123 /पार्ट	4.63 एकड़



11	09.07.2024	सेसर्स स्पाटन माईनिंग पार्ट-श्री सचिन कुमार दास, पिता-विश्वनाथ दास ग्राम-रंगामसरिया दलाही, पी0-केन्दघाटा थाना-मसलिया, जिला - दुमका। 2 मुस्ताफा भियाँ, पिता-सफुर भियाँ ग्राम-देवदाहा, पी0-बांसपहाड़ी, थाना-शिकारीपाड़ा दोनो का जिला-दुमका।	मञ्जलाडीह	742, 743 /पार्ट एवं 747 /पार्ट	4.72 एकड़
12	13.07.2024	रोमर स्टोन माईनिंग, पी0 - श्री विशाल राय, पिता - श्री देवरंजन राय, ग्राम+पोस्ट+थाना - मो0 बाजार, जिला - वीरभूम (पी0बी0), पिन नं0 - 731127	सियालपहाड़ी	129, 130, 131 एवं 138	5.23 एकड़
13	13.07.2024	सेसर्स जय बाबा बजरंगवली स्टोन मिल, पी0-श्री तापस भागत, पिता-श्री हरिशंकर भागत, ग्राम-निशिवतपुर, होलीहोम स्कूल के निकट, पी0+पी0-रामपुरहाट, जिला-वीरभूम (पी0बी0)	सालबोना पहाड़	260 /पार्ट, 261 /पार्ट, 263, 264 एवं 265 /पार्ट	5.10 एकड़
14	16.07.2024	श्री सजला बेसरा, पिता - स्व0 चरण बेसरा, ग्राम - कुचीबोना, पोस्ट - मल्दी, थाना - शिकारीपाड़ा, जिला - दुमका।	पौड़ावापुरी	875, 877, 880, 881, 882, 884, 886, 887, 888 /अंश, 890 एवं 891	6.37 एकड़
15	18.07.2024	श्री महेश यादव, पिता - श्री रामेश्वर यादव, स्थायी पता - सतडीहा, पोस्ट - सरमाटांड, थाना - जयनगर, जिला - कोडरमा। वर्तमान पता - सरसडगाल, थाना - शिकारीपाड़ा, जिला - दुमका।	थिनागाडिया	1606, 1607, 1608, 1609, 1611, 1620 /अंश, 1621, 1622, 1623, एवं 1624	4.25 एकड़
16	18.07.2024	विनित स्टोन पार्ट-श्री मनोज कुमार सिंह (पहाडिया) पिता-स्व0 देशेन्द्र सिंह, ग्राम-नाहरघाट (एल0आई0सी0 कॉलोनी) पी0+थाना+जिला-दुमका। 2. विजन देहरी, पिता-हाजी देहरी, ग्राम-सुगापहाड़ी, पी0-धरमपुर, थाना-गोपीकान्दर, जिला-दुमका।	सुगापहाड़ी	02 एवं 03	05.05 एकड़
17	18.07.2024	श्री शारदेंद्रु माल, पिता-श्री कन्हई माल, ग्राम-चकलागाढ़, रामपुरहाट, पी0+थाना-रामपुरहाट, जिला-वीरभूम (पी0बी0)	मञ्जलाडीह	1289 /पार्ट, 1292 /पार्ट, 1293, 1353, 1356, 1357, 1360 /पार्ट, 1366 एवं 1367	7.39 एकड़
18	19.07.2024	श्री राणा राकेश प्रताप सिंह पिता-श्री राणा रंजय प्रताप सिंह, ग्राम-ग्रांट स्टेट, पी0+थाना+जिला-दुमका, झारखण्ड	चन्दनगडिया	947 /पार्ट, 948 /पार्ट, 949 /पार्ट 952, 953, 964 एवं 966 /पार्ट	7.00 एकड़
19	23.07.2024	सेसर्स गणेश स्टोन वकर्स, पार्ट0 - श्री माणक चन्द्र महेश्वरी, पिता - स्व0 श्याम सुन्दर महेश्वरी, पता - सराय रोड, पोस्ट+थाना+जिला - दुमका एवं सुभान मंडल, पिता - श्री नव कुमार मंडल, ग्राम - अरविन्द पत्नी (एस.पी. मोड़) पोस्ट+थाना - सिउडी, जिला - वीरभूम (पी0बी0)।	सिउलीबोना	345, 346, 347, 348 एवं 349	7.39 एकड़
20	24.07.2024	सेसर्स यूनियर्सल ब्लैक स्टोन वकर्स, पी0 - मो0 असद अली, पिता - स्व0 मसहूली, ग्राम+पोस्ट - विनरगडिया, थाना-शिकारीपाड़ा, जिला - दुमका, 816103	शहरपुर	170, 171, 172 /अंश, 173, 174, 175 /अंश, 181 एवं 182	4.89 एकड़



21	25.07.2024	प्रत्युषधर झा पिता-स्व0 विद्याधर झा, ग्राम-सेस्टल जेल के नजदीक, ग्रांट स्टेट दुमका, पौ0+भाना+जिला-दुमका।	लौवापाड़ा	93, 94, 95/पाट एंव 148/पाट	5.70 एकड़
22	25.07.2024	विक्रम शर्मा, पिता - श्री गण्डुल मिस्त्री, पता - रसिकपुर वार्ड नं0 - 01, पोस्ट+भाना+जिला - दुमका, राज्य - झारखण्ड 814101	डिम्बादाहा	86/अंश, 87, 88, 90/अंश, 93/अंश, 94/अंश, 95, 96, 97, 98, 99, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114 एंव 116,	4.89 एकड़
23	25.07.2024	श्री राकेश कुमार, पिता - कपिलदेव सिंह, पता - गोधर कुसुण्डा, जिला - धनबाद, 2. अविनाश कुमार, पिता - श्री सुधरधर सिंह, झारा - अजीत कुमार सिंह, पता - पुरपुरा मोड़, रिखिया रोड, जिला - देवघर, 3. श्री रंजय कुमार, पिता - बैजनाथ सिंह, ग्राम+पोस्ट+भाना - शिकारीपाड़ा, जिला - दुमका 4. श्री सुरजित कुमार साह, पिता - श्री सुरेश प्रसाद साह। पता - कुम्हारपाड़ा, पोस्ट+भाना+जिला - दुमका।	त्रिनागडिया	168/अंश, 169/अंश, 170/अंश, 171/अंश, 172/अंश, एंव 173/अंश,	3.68 एकड़
24	27.07.2024	श्री अजीत कुमार सिंह, पिता - श्री गोवर्धन प्रसाद सिंह, ग्राम - नारोडीह, पोस्ट - चकई, भाना - चकई, जिला - जमुई (बिहार)।	चण्डीपुर	29, 30, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 70 एंव 71,	5.19 एकड़
25	27.07.2024	श्री रवि शंकर कुमार, पिता - श्री जपेन्द्र प्रसाद सिंह, पता - मकान नं0 298, वार्ड नं0 - 04, सिंह वोरहेल के निकट, सिलियम्स टाउन, श्री कृष्णापुरी देवघर, पोस्ट+भाना+जिला - देवघर 814112	चण्डीपुर	77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97 एंव 98, 1884	6.72 एकड़
26	30.07.2024	मंसस दुई स्टैन वकस, पौ0 - श्री परसस दुई, पिता - स्व0 कानू दुई, पता - चम्पानगर ग्रांट स्टेट, पोस्ट+भाना+जिला - दुमका, झारखण्ड 814101	बरमसिया	1862, 1863, 1864, 1871, 1872, 1874, 1875, 1877, 1878, 1879, 1880, 1881, 1882, 1883, एंव 1884	5.57 एकड़
27	30.07.2024	नयामुद्दीन अंसारी, पिता - स्व0 जम्बार अंसारी, ग्राम - त्रिनागडिया, पोस्ट - बेनागडिया, भाना - शिकारीपाड़ा, जिला - दुमका।	त्रिनागडिया	909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, एंव 927,	3.77 एकड़
28	31.07.2024	पाट0 - कलौम अंसारी, पिता - हासिल मिया, ग्राम - ठाकरपुर, पोस्ट - कोल्हा, भाना - काठीकुण्ड, जिला - दुमका, 814103 2. मी0 वाहिद आलम, भयता - स्व0 मी0 मौजिदर रहमान, ग्राम - डौं0 पास, डी0एन शाह सलेमपुर, सुतुरखाना, पोस्ट - बांक, भाना - मुफसिल मुंोर, जिला - मुंोर, (बिहार)।	शहरपुर	136, 138/अंश, 139, 140, 146/अंश, 147, 148, 149 एंव 150	4.66 एकड़
29	31.07.2024	संजय प्रसाद सिंह, पिता - श्री राजनन्दन सिंह, पता - गौशाला रोड द्वितीय तल्ला कर्बला के सामने, पोस्ट+भाना+जिला - दुमका।	मंडलाडीह	1305/अंश, 1309, 1310, 1311, 1312, 1313 एंव 1319	7.25 एकड़



30	08.08.2024	मैसर्स बरुण सिंह सिस्कोडिया प्रा0 लि0, प्रबन्ध निदेशक - श्री बरुण सिंह, पिता - श्री कुमार भरत, रूपायी पत्ता - 12 किशोर भवन, जसटिस मडल पथ डीए भी स्कूल के पूर्व, राजवशी नगर, पटना (बिहार) 800023	चन्दनगडिया	905 /अंश, 908 /अंश, 909 /अंश, 910, 911, 912 /अंश, 918 /अंश, 919, 920 /अंश, 921 /अंश, एवं 922 /अंश,	5.19 एकड़
31	08.08.2024	श्री संजय कुमार साह, पिता - श्री मुनिलाल साह, ग्राम नपोस्ट - पालाजोरी, धाना - पालाजोरी, जिला - देवघर ।	अम्बा	410, 411 एवं 415	3.17 एकड़
32	08.08.2024	श्री अमन सिंह, पिता - स्व0 रणवीर सिंह, ग्राम - जमुगाडिया, पोस्ट - प्रतापपुर, धाना - शिकारोपाड़ा, जिला - दुमका, झारखण्ड, पिन - 816118	मझलाडीह	1344 /अंश, 1345, 1368, 1369, एवं 1372	4.80 एकड़
33	10.08.2024	हनुमान सिंह, पिता - शिशना राम, ग्राम - कुलौव खुर्द, पोस्ट - सुरजगढ़ कुलोथ खुर्द कुलौव कला, धाना - सुरजगढ़, जिला - शुशुन (राजस्थान) पिन नं0 - 333033	सालबाना पराड	123 /अंश	3.69 एकड़
34	18.08.2024	मैसर्स पी एम एस. इन्स्ट्रप्रॉडिज, पार्ट0 - श्री हरीश मंडल, पिता - राम कुमार मंडल, ग्राम - पागुडीह, पोस्ट - बैना, पोस्ट+धाना - जामताड़ा, 2. श्री शिव कुमार गोपाल कृष्ण मेनन, पिता - गोपाल कृष्ण मेनन, पत्ता - 205, दोस्ती पाराडार्डिज स्टला, नियर पेट्रोल पम्प बरामपुर, बसाई रोड, परियम थाने, मुम्बई 401202, 3. गुलाम मुस्ताफा, पिता - स्व0 नवीरल्लाह मियाँ, ग्राम - पारसिमला, पोस्ट - पहरुडीह, धाना - मसानजोर, जिला - दुमका ।	चण्डीपुर	52 /अंश, 53, 54, 55, 56, 57, 63 /अंश, 64, एवं 66	7.37 एकड़
35	22.08.2024	स्वास्तिक माईनिंग एजेंसी, पार्ट0 - नेहेल कुमार चावड़ा, पिता - स्व0 जितेन्द्र कुमार चावड़ा, ग्राम+पोस्ट - बाकुडी, धाना - तीनपहाड़, जिला - साहेबगंज, 2. उत्तम कुमार सिंह, पिता - सत्येन्द्र सिंह, ग्राम+पोस्ट+धाना - राजमहल, जिला - साहेबगंज, 3. संदीप कुमार महतो, पिता - श्री अकलू प्रसाद महतो, ग्राम - कोठपर, पोस्ट - मानसिंहपुर, धाना+जिला - साहेबगंज ।	चन्दनगडिया	924 /अंश, 925, 926 /अंश, 927, 931 /अंश, 932 /अंश, 934, 936 /अंश, 951 /अंश, एवं 952	7.21 एकड़
36	27.08.2024	मैसर्स शिव शंकर इन्स्ट्रप्रॉडिज, पार्ट0 - श्री विदित कुमार, पिता - श्री विसेन्द्र कीर, ग्राम - सुभाष बाजार, 1175 काबली गेट जिला - मेरठ (उत्तरप्रदेश) 2. दीपक कुमार, पिता - श्री अशोक कुमार जयसवाल, पत्ता - एच.जी. हाउसींग कॉलोनी नं0 - 11, धाना - कोर्टमोड़, जिला - धनबाद ।	रामबनी	139, 140, 141, 142, एवं 217	4.76 एकड़



37	28.08.2024	रविन्द्र नाथ चौद, जिला - स्व0 यदुनाथ चौद ग्राम - गोपीकान्दर, पोस्ट - गोपीकान्दर, थाना - गोपीकान्दर, जिला - दुमका, पिन कोड - 814103	पिण्डराडिया	75 / अश. एवं 83	6.77 एकड़
38	29.08.2024	पाट0- साशिर अख्दर, पिला - शकौल अख्दर, ग्राम+पोस्ट - व्यापुर, थाना - मनोर, जिला - पटना 801503 एवं 2. हंस राव, पिला - श्री नलीन कुमार, ग्राम - खपुरा, पोस्ट - पकडीवारावा, थाना - पकडीवारावा, जिला - नवादा (बिहार)	आमचुआँ	1573 / अश. 1575, 1576, 1577, 1578, 1579, 1580 / अश. 1581 / अश. 1611 / अश. 1612 / अश. 1613, 1616 / अश. 1633 / अश. एवं 1634 / अश.	4.30 एकड़
39	04.09.2024	रंजुजय कुमार, जिला - रामदश शर्मा, ग्राम +पोस्ट - गोरखडी, थाना - विक्रम, जिला - पटना (बिहार)	चिरापाथर	416, 417, 418 / पाट, 419, 420, 634, 635, 636, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 688 एवं 689	3.74 एकड़
40	12.09.2024	मेसर्स एलाइंस इन्फ्रा एण्ड माईन्स, पाट0 - श्री संजय कुमार वर्मा, जिला - स्व0 कैलाश प्रसाद वर्मा, ग्राम+पोस्ट+थाना - शिकारीपडा जिला - दुमका, झारखण्ड-816118, 2. श्री आशुतोष, जिला - श्री महानंद चौधरी, पता - हाउस नं0-41, एस.एफ.आर.एच.एस. लेन नं0 - 02, लक्ष्मी नगर, साई मंदिर के पीछे, पूर्वी दिल्ली - 110092, 3. मोहम्मद इरफान, पिला - मोहम्मद इसरार, पता - हाउस नं0 41 करेज नं0 137 / 12, द्वितीय तल्ला, लेन नं0 - 04, ब्लॉक ए/2, परिवर्णी सतनगर, बुराडी, उत्तर दिल्ली - 110084,	सालबोना पहाड़	164 / अश. एवं 185 / अश.	2.46 एकड़
41	21.09.2024	मो0 अनसार, जिला - स्व0 मो0 कुदुस, ग्राम - निश्चिन्पुर, पोस्ट+थाना - रामपुरहाट, जिला - वीरभूम (पं0बं0)।	चित्रागडिया	905, 906 एवं 907	2.63 एकड़
42	21.09.2024	मेसर्स हिमालया स्टीन सिंडीकेट, प्रो - मो0 मुमताज अंसारी, जिला - मो0 सुरस अंसारी, ग्राम+पोस्ट - सरसडंगाल, थाना - शिकारीपडा, जिला - दुमका।	पौखरिया	1132 / अश. 1133 / अश., 1134 / अश. 1239 / अश. एवं 1240 / अश.	5.00 एकड़



ANNEXURE-V

**Screenshot of DSR uploaded on
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ANNEXURE-VI
Newspaper Advt. Copy





शारखण्ड सरकार
उपायुक्त का कार्यालय (खनन शाखा), दुमका।

आम सूचना

Draft DSR (रिड खनन से भिन्न अन्य गौण खनिज)

एतद् द्वारा सूचना करना है कि दुमका जिला हेतु तैयार Draft DSR (रिड खनन से भिन्न अन्य गौण खनिज) Ministry of Environment Forest and Climate Change के अधिवृत्त संख्या S.O3611(E) के अंतर्गत में Public Viewing एवं Comments हेतु जिला के वेबसाई <https://dumka.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 (रिड खनन से भिन्न अन्य गौण खनिज) के भारत सुझाव एवं Comments उपयुक्त दुमका के कार्यालय अथवा जिला खनन कार्यालय, दुमका में पर्य के माध्यम से देना जा सकता है।

PR 329291 (Mines and Geology) 24-25 (D)

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ANNEXURE-VII

Pollution load of existing mines



PM Emission Load during Mining Operations

During mining activity, the emission may arise due to various mining operations i.e. drilling, blasting, excavation and transportation. While calculating load coming out from various activities of these mines, several data related challenges has been observed i.e. activity area, maximum annual production etc. In mining operations, major contributor of pollution is the dust coming out from various activities at mine site. To streamline the calculation of PM emissions, following assumptions have been made:

1. Area of activity at a time is taken as 100 x 100 sqm.
2. To obtain maximum production in TPA, available mineable reserve was divided by total years of the mine lease.
3. Drilling and blasting are not considered in the modelling scenario as these activities are not continuous operation.
4. Emission from 200 m haul road for each mine is taken into consideration however they are different in route and different in distance travelled for different mines.

While calculating the load following parameters are taken in to considerations:

1. Average Wind Speed 2.6 m/s is taken.
2. Working Hours per day is taken as 8 hours.
3. Total 300 numbers of working days in a year are taken.
4. Moisture content in the soil is taken as 5%.
5. Silt content on the road is taken 22%.
6. To control the emission, water sprinkling as air pollution control measure with efficiency of 60% is considered.

Based on the assumptions and input data, the calculated PM emission rate from different mines would be as follows:



Table 1: PM Emission Rate

S.No.	Name of the Lessee	Area, Ha	Production, Tonnes	Mine Lease, Years	Production, TPA	PM, g/s/m2 (Mine)		PM, g/s (Transportation)	
						Uncontrolled	Controlled	Uncontrolled	Controlled
1	Shri Parasnath Heights Pvt. Ltd.	2.11 HA/5.20 acre	7,77,338.64	5	155467.728	3.47xE-07	1.39xE-07	0.305	0.122
2	Shri Mainul Islam	2.17 ha/5.36 acre	3,44,283.72	5	68856.7446	1.54xE-07	6.15xE-08	0.13	0.054
3	M/s Raksha Kali Stone Works	1.66 HA/4.09 acre	586205.1	5	117241.02	2.61x E-07	1.047x E-07	0.23	0.092
4	M/s Shree Shree Stone Works	2.97 ha/7.34 acre	1740056	5	348011.2	7.77x E-07	3.108x E-07	0.68	0.27
5	M/s Maa Kali Stone	2.46 HA/6.08 acre	1310177.7	5	262035.54	5.85x E-07	2.34x E-07	0.51	0.21
6	M/s Raksha Kali Stone Works	2.955 ha/7.30 acre	3068604	5	613720.8	1.37x E-06	5.48x E-07	1.2	0.48
7	Sri Utpal Kumar Sen	2.26 ha/5.59 acre	1025100	5	205020	4.58x E-07	1.83x E-07	0.402	0.161
8	M/s R.S.S Stone Works	1.73 ha/4.28 acre	716763.6	5	143352.72	3.2x E-07	1.28x E-07	0.28	0.11
9	Shri Arun Kumar Sah	1.61 ha/3.97 acre	837626.4	5	167525.28	3.74x E-07	1.49x E-07	0.33	0.13
10	M/s S.P. Stone Works	1.97 ha/4.870 acre	727497.69	5	145499.538	3.25x E-07	1.29x E-07	0.29	0.11
11	Shri Amardeep	2.43 ha/6.01 acre	1083231	5	216646.2	4.83x E-07	1.93x E-07	0.43	0.17



S.No.	Name of the Lessee	Area, Ha	Production, Tonnes	Mine Lease, Years	Production, TPA	PM, g/s/m2 (Mine)		PM, g/s (Transportation)	
						Uncontrolled	Controlled	Uncontrolled	Controlled
12	Shri Amardeep	2.38 ha/5.88 acre	1053040	5	210608	4.70x E-07	1.88x E-07	0.41	0.165
13	Shri Sunil Kumar mandal	1.76 ha/4.34 acre	644492.16	5	128898.432	2.87x E-07	1.15x E-07	0.25	0.101
14	M/s Varun Singh Sisodia Private Limited	1.78 ha/4.39 acre	480847	5	96169.4	2.15x E-07	8.59x E-08	0.19	0.075
15	Shri Parasnath Industries	2.34 ha/5.79 acre	7,90,511.40	5	158102.28	3.53x E-07	1.41x E-07	0.31	0.12
16	Shri Santosh Kumar Dan	1.20 ha/2.97 acre	201993.75	5	40398.75	9.02x E-08	3.61x E-08	0.079	0.031
17	M/s Jai Maa Tara Stone Product	2.73 ha/6.73 acre	1409685	5	281937	6.29x E-07	2.52x E-07	0.55	0.22
18	M/s R.A.N Enterprises	2.65 ha/6.56 acre	885880.8	5	177176.16	3.95x E-07	1.58x E-07	0.35	0.139
19	M/s Lakhinarayan Stone Works	1.53 HA/3.77 acre	905488	5	181097.6	4.04x E-07	1.62x E-07	0.36	0.14
20	Sri Pratyusdhar Jha	2.31 HA/5.70 acre	1829456	5	365891.2	8.17x E-07	3.26x E-07	0.72	0.29
21	Shri Mahesh Yadav	1.81 ha/4.48 acre	1458000	5	291600	6.51x E-07	2.61x E-07	0.57	0.23
22	M/s Vishnu Stone Enterprises	1.63 ha/4.04 acre	959156	5	191831.2	4.28x E-07	1.71x E-07	0.38	0.15
23	M/s Manmode Minerals Pvt. Ltd.	1.64 ha/4.04 acre	1020986	5	204197.2	4.56x E-07	1.83x E-07	0.401	0.1605
24	M/s Pragati infra	1.40 ha/3.45 acre	712514.9	5	142502.98	3.18x E-07	1.27x E-07	0.28	0.112



S.No.	Name of the Lessee	Area, Ha	Production, Tonnes	Mine Lease, Years	Production, TPA	PM, g/s/m2 (Mine)		PM, g/s (Transportation)	
						Uncontrolled	Controlled	Uncontrolled	Controlled
25	Sri Soi Mandal	1.955 ha/4.83 acre	557905	5	111581	2.49x E-07	9.97x E-08	0.22	0.087
26	M/s Supreme Stone Mine	1.42 ha/3.52 acre	301860	5	60372	1.35x E-07	5.4x E-08	0.118	0.047
27	Sri Fadar Ansari lease transfer to M/s Bansidhar Construction Private Limited	2.94 ha/7.27 acre	1714284	5	342856.8	7.65x E-07	3.06x E-07	0.67	0.27
28	M/s Rajbir Construction Pvt. Ltd.	2.91 ha/7.19 acre	1079265.6	5	215853.12	4.81x E-07	1.92x E-07	0.42	0.17
29	Sri Anil Prasad Singh	2.98 ha/7.36 acre	913160	5	182632	4.07x E-07	1.63x E-07	0.36	0.14
30	Md. Abdus Salam Ansari	1.39 ha/3.43 acre	494721	5	98944.2	2.21x E-07	8.84x E-08	0.19	0.078
31	M/s K.K. Stone	2.98 ha/7.37 acre	564725.52	5	112945.104	2.52x E-07	1.009x E-07	0.22	0.089
32	Shri William Rituraj	2.96 ha/7.31 acre	1747114.11	5	349422.822	7.80x E-07	3.12x E-07	0.69	0.27
33	Sri Ravindra Nath Chand	2.69 ha/6.65 acre	1542630	5	308526	6.88x E-07	2.76x E-07	0.606	0.24
34	Sri Ravindra Nath Chand	2.50 ha/6.18 acre	1092945	5	218589	4.88x E-07	1.95x E-07	0.43	0.18
35	M/s Agrima Infra Engineering Pvt.Ltd.	1.04 ha/2.57 acre	477446	5	95489.2	2.13x E-07	8.53x E-08	0.19	0.075
36	M/s Agrima Infra Engineering Pvt.Ltd.	2.12 ha/5.24 acre	780033	5	156006.6	3.48x E-07	1.39x E-07	0.306	0.122



S.No.	Name of the Lessee	Area, Ha	Production, Tonnes	Mine Lease, Years	Production, TPA	PM, g/s/m2 (Mine)		PM, g/s (Transportation)	
						Uncontrolled	Controlled	Uncontrolled	Controlled
37	Shri Dilip Kumar Modi	1.87 ha/4.63 acre	5,17,619.70	5	103523.94	2.31x E-07	9.25x E-08	0.203	0.081
38	Shri Bheru Lal Sharma	2.83 ha/6.99 acre	14,97,220.20	5	299444.04	6.68x E-07	2.67x E-07	0.59	0.23
39	M/s Tridev Engicon Pvt. Ltd.	2.43 ha/6.0 acre	11,36,936.25	5	227387.25	5.07x E-07	2.03x E-07	0.45	0.18
40	Shree Deepak Raj	2.83 ha/7.0 acre	1123470	5	224694	5.01x E-07	2.007x E-07	0.44	0.17
41	M/s Baba Stone	2.97 ha/7.33 acre	1674560.25	5	334912.05	7.48x E-07	2.99x E-07	0.66	0.26
42	Shri Sujeet Kumar Singh	2.834 ha/7.0 acre	414045	5	82809	1.85x E-07	7.39x E-08	0.16	0.065
43	M/s Adity Stone	2.60 ha/6.41 acre	1085918.4	5	217183.68	4.85x E-07	1.94x E-07	0.43	0.17
44	Shri Madhurendra Jha	1.62 ha/4.0 acre	4,09,759.56	5	81951.912	1.83x E-07	7.32x E-08	0.16	0.064
45	Shri Pankaj Kumar Mandal	0.99 ha/2.45 acre	2,22,964.92	5	44592.984	9.95x E-08	3.98x E-08	0.087	0.035
46	M/s Rajah Mining Corporation	1.935 ha/4.782 acre	275854	10	27585.4	6.16x E-08	2.46x E-08	0.054	0.022
47	Shri Kaushal Kishore Singh & Shri Harinandan Choudhary	1.137 ha/2.81 acre	284866	10	28486.6	6.36x E-08	2.54x E-08	0.06	0.022
48	Dani Nath Stone	1.52Ha/3.75 acre	363393	5	72678.6	1.622x E-07	6.49x E-08	0.143	0.057



S.No.	Name of the Lessee	Area, Ha	Production, Tonnes	Mine Lease, Years	Production, TPA	PM, g/s/m2 (Mine)		PM, g/s (Transportation)	
						Uncontrolled	Controlled	Uncontrolled	Controlled
49	Sri Haradhan Verma	1.38 ha/3.40 acre	933200.87	5	186640.174	4.16x E-07	1.66x E-07	0.37	0.146
50	Smt Mini Hansda	1.87 ha/ 4.62 Acre	646659.45	5	129331.89	2.88x E-07	1.15x E-07	0.254	0.101
51	V R Minerals	2.49 ha/ 6.16 acre	1301182	5	260236.4	5.81x E-07	2.32x E-07	0.511	0.204

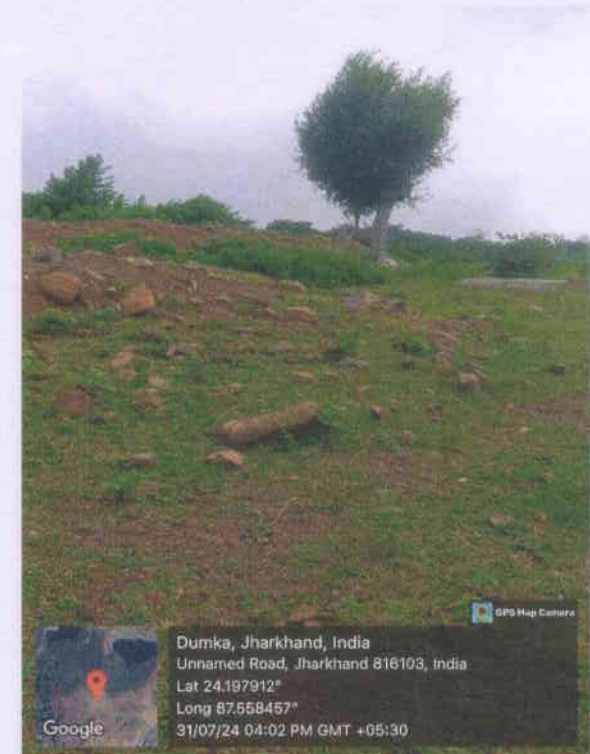
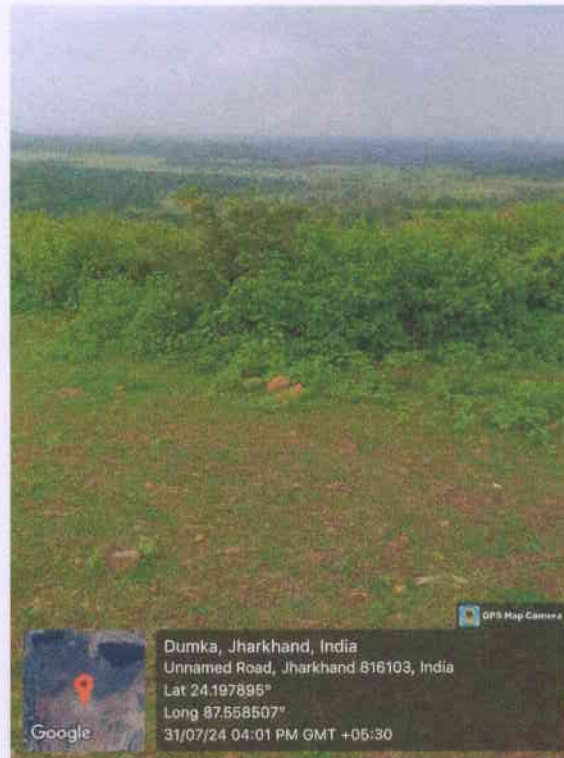
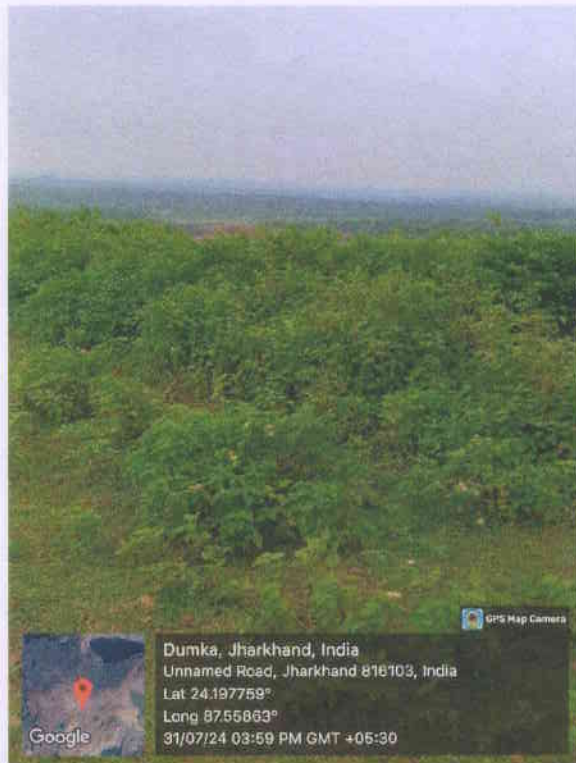


ANNEXURE-VIII
Photographs of plantation



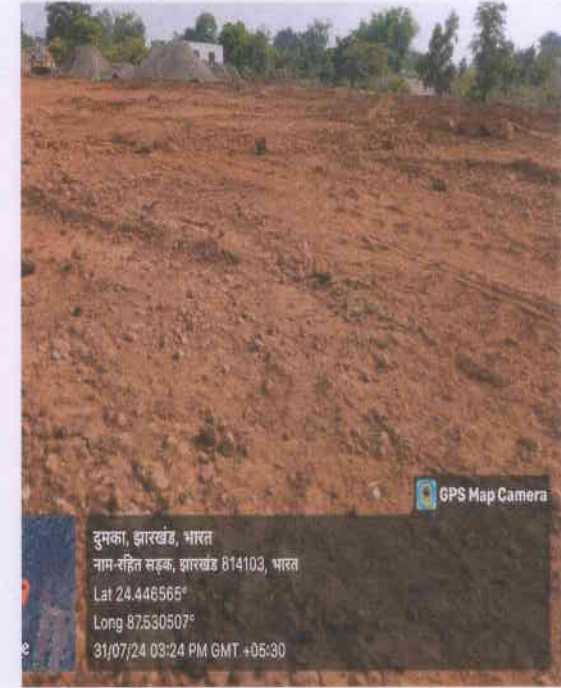
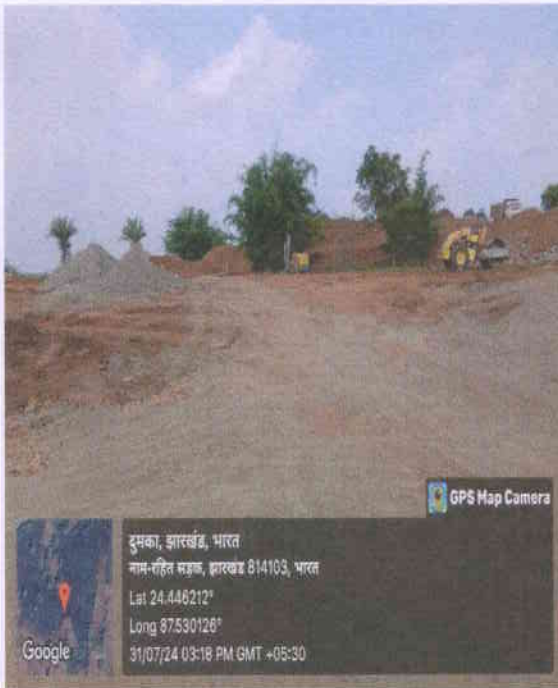
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Sunil Kumar Mandal;



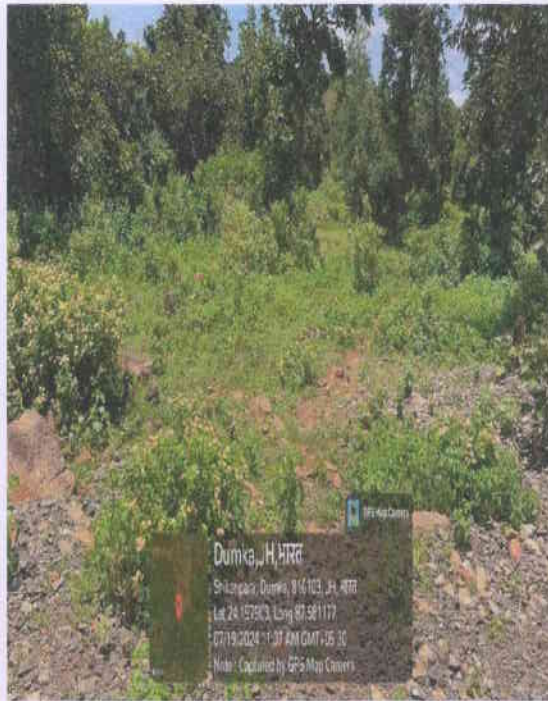
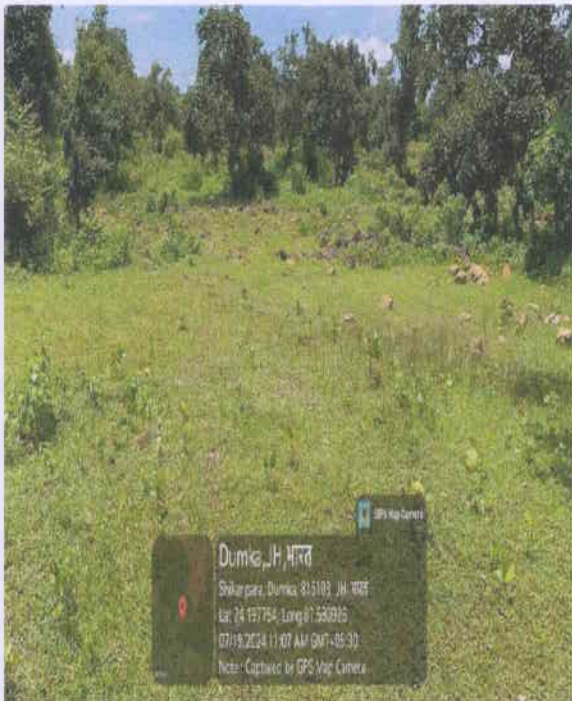
Plantation Photographs

R.S.S Stone Works



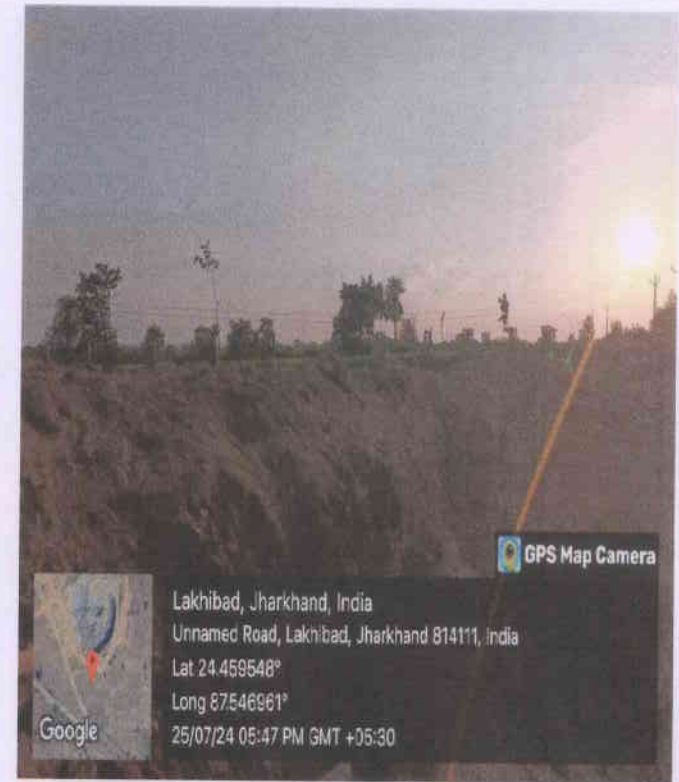
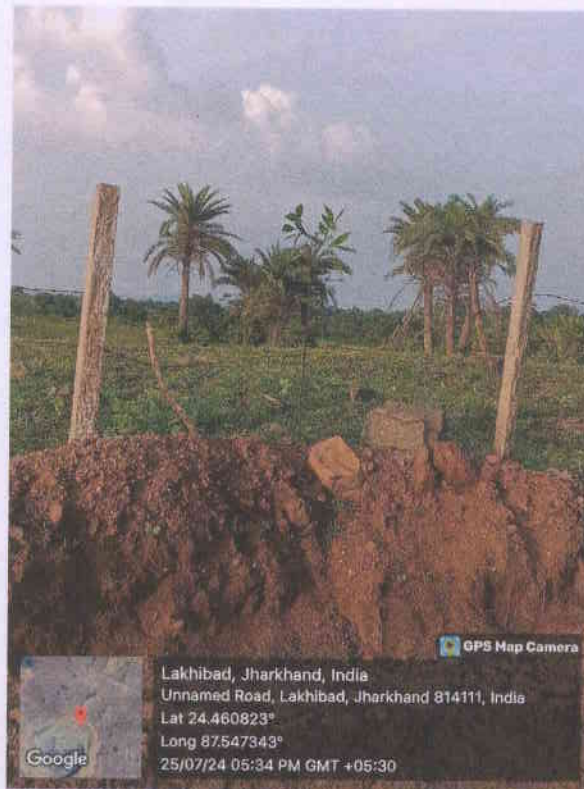
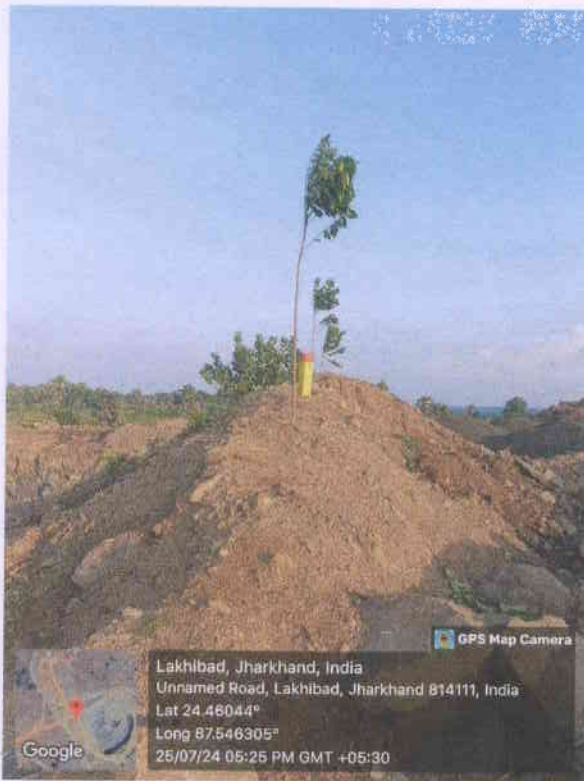
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Ms Baba Baidnath Stone



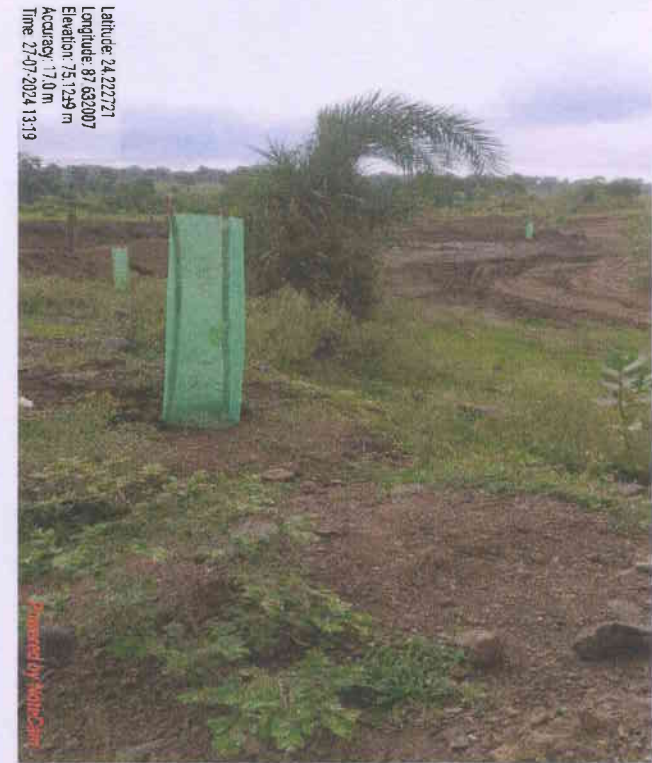
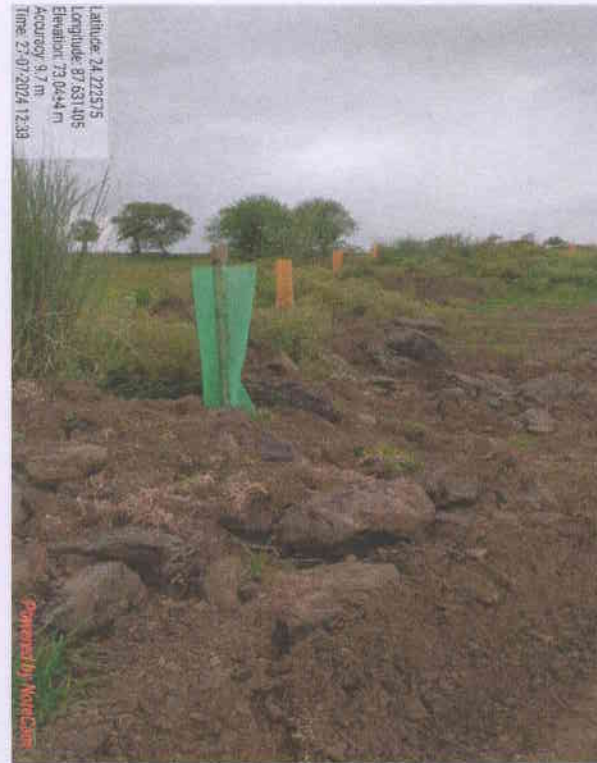
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Lakhi Narayan Stone Works



Plantation Photographs

Rajbeer Construction Pvt Ltd



Plantation Photographs

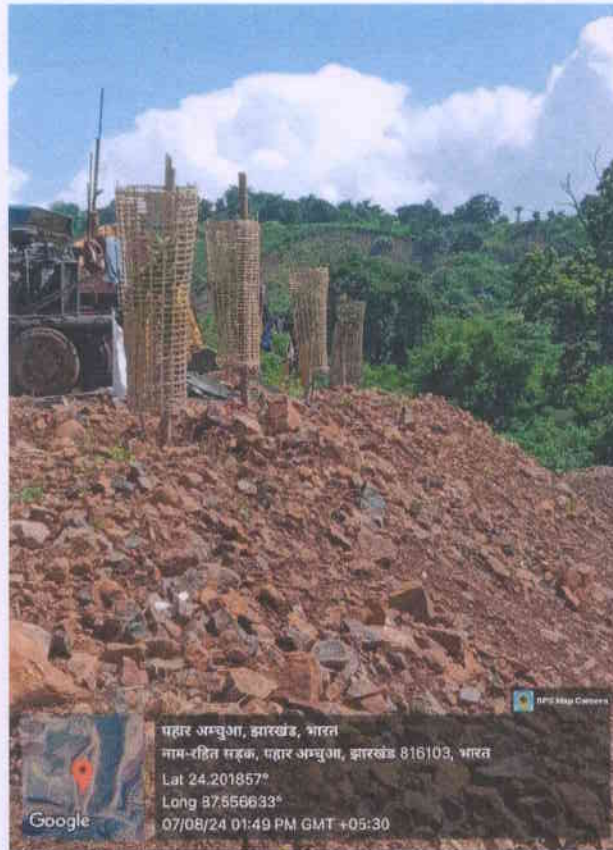
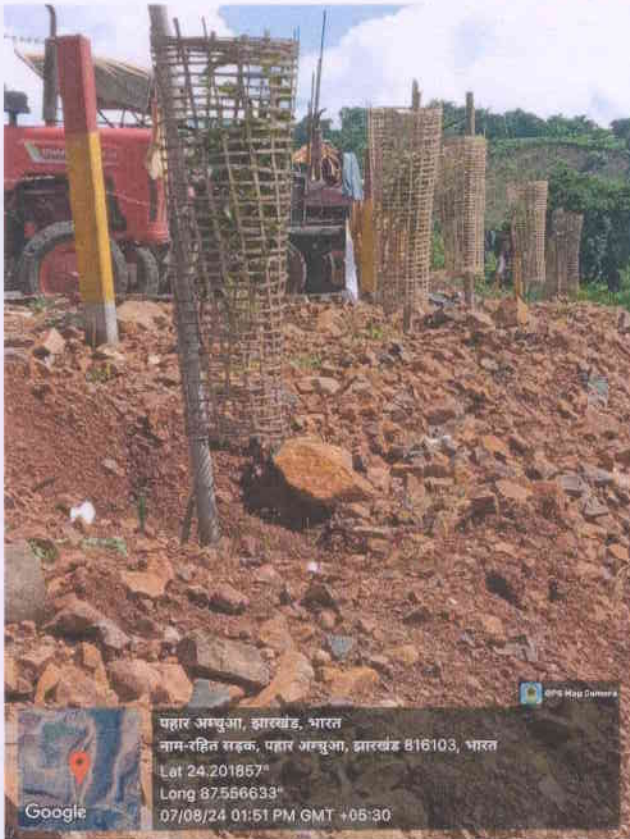
Rajja Maning



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Unnamed Road, Pokharia, Jharkhand 816103, India
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07/08/24 12:41 PM GMT +05:30

Plantation Photographs

Mahesh Yadav



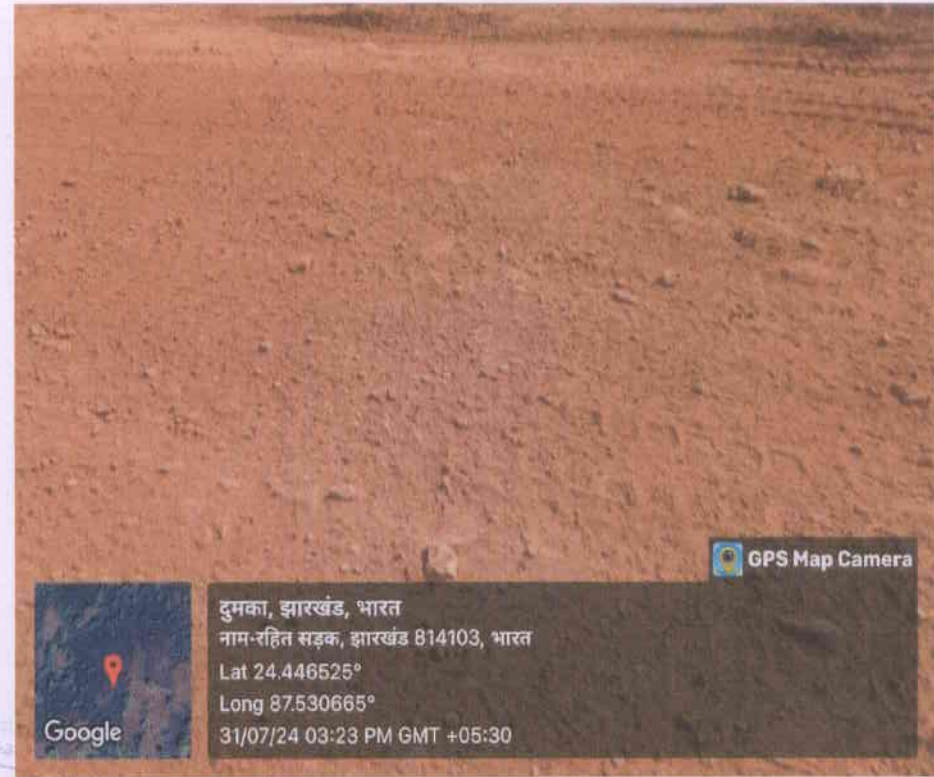
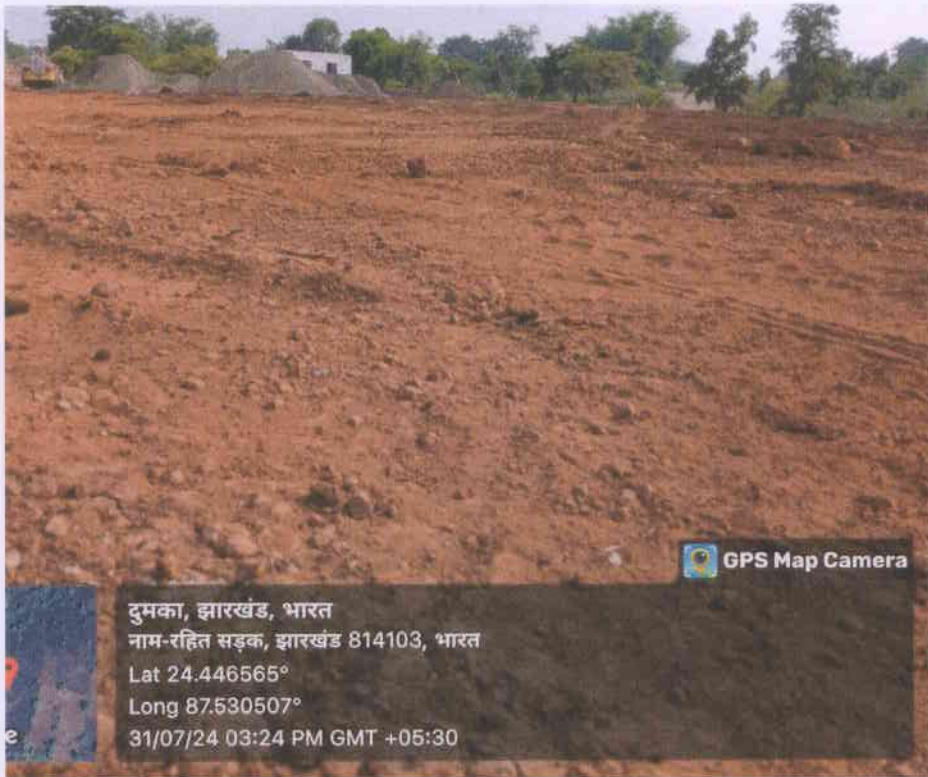
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P D Jha



Plantation Photographs

R.S.S Stone Works



ANNEXURE-IX

**Letter from Civil Surgeon, Dumka for
Silicosis & Tuberculosis**





असैनिक शल्य चिकित्सक-सह-मुख्य चिकित्सा पदाधिकारी,
दुमका, झारखण्ड।



पत्रांक...157

प्रेषक : असैनिक शल्य चिकित्सक-सह-
मुख्य चिकित्सा पदाधिकारी, दुमका।

प्रेषित :
जिला खनन पदाधिकारी,
दुमका।

दुमका / दिनांक...12/09/24.

विषय : दुमका जिला में विगत पांच वर्षों में पाये गये Silicosis & Tuberculosis के मरीजों की संख्या
उपलब्ध कराने के संबंध में।

प्रसंग : जिला खनन कार्यालय, दुमका के पत्रांक 1035 दि० 09.09.2024

महाराज,

उपर्युक्त प्रासंगिक विषयक के आलोक में Silicosis & Tuberculosis के मरीजों की संख्या निम्न है-

Sl.No	Year	Silicosis & Tuberculosis के मरीजों की संख्या	
		Silicosis	Tuberculosis
1	2019	0	3225
2	2020	0	2700
3	2021	0	3065
4	2022	0	3231
5	2023	0	3391
6	2024	0	2409

Handwritten signature
जिला यक्षा पदाधिकारी
जिला यक्षा केन्द्र, दुमका।

असैनिक शल्य चिकित्सक-सह
मुख्य चिकित्सा पदाधिकारी, दुमका।



ANNEXURE - X
Geo Hydrological Survey Report



GEO HYDROLOGICAL SURVEY REPORT
OF
BARMASIA STONE WORKS

Dag Nos. 1886, 1892, 1893, 1894, 1891, 1944 & 1945

Mouza – Barmasia, Block - Sikaripara
District - Dumka, State – Jharkhand

USING

Instrument Model: SSR MP ATS

Method - Schlumberger Array

Project Proponent

Md Abdusalam Ansari

S/o Md Gulam Rashul

Village - Kalakata, PS – Raneshwar, District- Dumka, Jharkhand

Survey by

Dr. Amarjeet Kumar Singh

Consultant Hydro Geologist

At - Lal Bangla, PO - KG Ashram, District - Dhanbad, State - Jharkhand - 826109

Registered QP by Department of Mines and Geology, Govt. of Jharkhand

(Approved Hydro geologist by MADA, Railway and D W & S Dept, Govt. of Jharkhand)

Mob: 9431508228

E- mail: amarjeet.dhanbad@gmail.com

2024



GEO HYDROLOGICAL SURVEY REPORT

Introduction : On the receipt of request from **Barmasia Stone Works/mine** of Md Abdusalam Ansari S/o Md Gulam Rasul, Village- Kalakata, PS - Raneshwar in District- Dumka, Jharkhand for conducting Geo hydrological testing/report including depth of aquifers based on Jharkhand Gazette (Extra Ordinary). Published on 02 March 2017, Schedule IV (XII) Regarding Geo Hydrological Survey Report ; three Vertical Electrical Soundings (VES) have been carried out in the proposed Barmasia Stone Mine site on Dag No 1886, 1892, 1893, 1894, 1944 & 1945 in Mouza Barmasia, Block Sikaripara, District Dumka and state Jharkhand (Photo-1). The detailed Vertical Electrical Sounding (VES) locations (Table 1) & (Figure 1) and measured Apparent Resistivity Surveyed data in ohm m (Table 2) has been carried out on 30th August, 2024.

Geo Hydrologically, the area under investigation is characterized as hard & compact rock type. The availability of ground water would depend on the presence and extent of the weathered overburden, the presence of joints and fractures underlying bedrocks. In general, these types of rocks are poor source of ground water. This is mainly due to its less permeability and porosity. On literature survey and based on field investigation it was observed that Rajmahal formation of basaltic rock/stone and recent alluvium are common in this area. Therefore, on the request of applicant Md Abdusalam Ansari S/o Md Gulam Rasul, Village- Kalakata, PS - Raneshwar in District- Dumka, Jharkhand; an attempt has been made to delineate the sub surface and underlying bedrocks strata conditions using resistivity techniques.

Literature Review: Geophysical methods, especially Geo physical Electric Resistivity Survey techniques can give better solutions indirectly in locating ground water in unexplored hard rocky terrains. Despite some limitations, resistivity survey method is the most commonly used and feasible technique to explore ground water aquifers in recent years. Resistivity methods measure sub surface resistivity distribution from ground surface. This method is based on the electrical resistivity of the rock formations.

There are no fixed limits for resistivity of various rocks. Resistivity of rock formation vary over a wide range depending on the material, density, porosity pore size and shape, water contents and quality of water. (Table 3)

Four electrodes (2 currents and 2 potential electrodes) are in practice to get the resistivity of the different strata beneath the earth crust. To get the thickness and depth of aquifer (water bearing rocks) below ground level, vertical electrical sounding (VES) has been carried out. These measurements are normally made by passing electric current in to the ground through two metallic electrodes and measuring the resulting voltage difference at two potential electrodes. From these measurements, the true resistivity of the sub surface can be estimated. (Figure - 2)



GEO HYDROLOGICAL SURVEY REPORT

Table 1: Location of VES points with GPS Coordinates on Barmasia Stone Mine in Dumka district.

S. No	Vertical Electrical Sounding (VES)	Latitudes & Longitudes
1	VES-1	N 24°11' 24.5" & E87°03'48.2"
2	VES-2	N 24°11' 23.3" & E87°03'49.4"
3	VES-3	N 24°11' 23.2" & E87°03'53.0"

Geological setup of the area: Geologically, Dumka district (GSI) is represented by Chota nagpur Granite-Gneiss of Archaean age to Proterozoic and Eastern Ghat super Group of Archaean age, which are overlain by Gondwana Super Group, Raj mahal basaltic lava flows (Upper Jurrassic to lower cretaceous age) with inter trappean beds and at places Laterites

The Chotanagpur Gneissic complex is largely represented lithological unit in the area and covers the major part of the district uninterrupted. They form more or less gently undulating plains and high grounds pediments and buried pediments, seldom giving rise to small hillocks mounds. They are mostly biotite gneisses and granite gneisses and in general coarse grained with porphyroblastic texture and traversed by pegmatite and quartz vein of various dimensions. It contains enclave of amphibolites and mica schists.

The precambrian formations/Gondwana formations are further overlapped by Rajmahal Traps consists of basaltic lava flows with sedimentary intertrappeans. The basaltic rocks are hard and fine to medium grained. Some of the lava flows are vesicular and cavities being filled by calcite and chalcedony. The non vesicular lava flows are hard, tough, compact and fine to medium grained in nature. The vesicular types are comparatively soft and break easily. They are greenish to dark in colour with number of flows not clearly delineated in this district. In general, the Rajmahal traps show vertical to horizontal joints trending E-W and N-S. Typical columnar joints are also common. These rocks are weathered with characteristic spherical exfoliation which gives rise to large rounded boulders as the out crops. It has been proved that basalts too are productive when either weathered or fractured.

Geologically the area of study lies within Rajmahal trap, which underlain by a wide range of geological formations ranging in age from Archaean to Recent. The common rock formation in this area is Basalt. Topographically area under investigation is uneven and undulating in nature. The high grounds are being separated between low grounds. A very thin soil cover is observed.



GEO HYDROLOGICAL SURVEY REPORT

Instrumentation & measurement techniques: Methodology includes detailed investigation carried out in field as well as laboratory for exploring, estimation and recommendation of suitable sites for stone explorations. Three Vertical Electrical Soundings (VES) in the proposed study area were carried out by using SSR-MP-ATS, instrument. Schlumberger configuration was used with maximum electrode spacing between the center of the electrode configuration and outer most current electrode (AB/2) equal to 90 meters. For interpretation of measured data computer-based software were used in the laboratory. The 1D- Resistivity estimating computer programmed was used in this survey to determine the appropriate resistivity values in the laboratory.

Results:

The perusal of Table No.-2 indicates that the results of measured apparent resistivity in the field. The apparent resistivity observed in this site is ranges from 02 - ohm m to 69- ohm m in VES-1, 07- ohm m to 79- ohm m in VES-2 and 07- ohm m to 115- ohm m in VES-3, respectively. The results as measured apparent resistivity ranges in ohm m are given in table 2 and the measured apparent resistivity vs depth graph is given in figure 1. The result of all surveyed points indicates, almost similar nature of resistivity graph from top to bottom, interpreted hard rock formations without any fracture zone.

Table: 2. showing results of Measured Apparent Resistivity in Ohm m

Depth (m)	Apparent Resistivity in (ohm. M)		
	VES-1	VES-2	VES-3
3	7	14	8
6	5	7	7
9	2	9	7
12	7	11	9
15	10	14	12
18	11	16	14
21	13	24	16
24	15	28	19
27	17	29	21
30	19	27	24
35	22	34	27
40	24	45	31
45	37	57	36
50	58	65	45
60	69	79	57
70	---	---	69
80	---	---	86
90	---	---	115

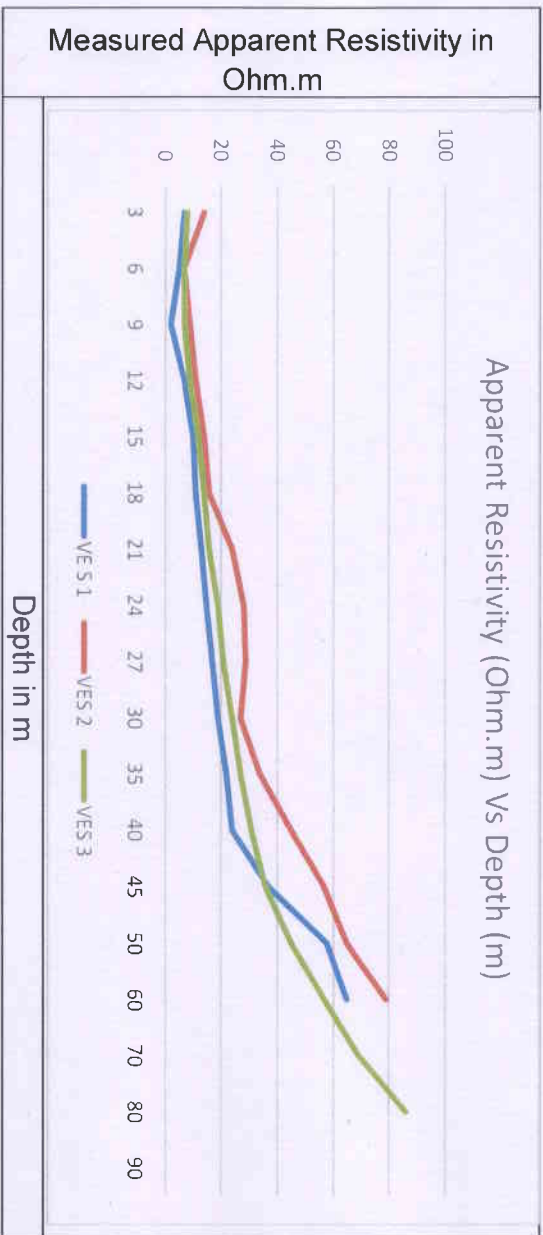


GEO HYDROLOGICAL SURVEY REPORT

Table: 3 Resistivity's of some common rocks. (Keller and Frischknecht, 1966, Daniels and Alberty, 1966)

Material	Resistivity in Ohm.m
Granite	5×10^3 to 10^6
Basalt	10^2 to 10^6
Slate	6×10^3 to 4×10^7
Quartzite	10^2 to 2×10^8
Sandstone	8 to 4×10^3
Shale	20 to 2×10^3
Clay	1 to 100
Alluvium	10 to 800
Ground water (Fresh)	10 to 100

Figure 1 : Showing measured apparent resistivity vs depth in proposed site



GEO HYDROLOGICAL SURVEY REPORT

Interpretations: A total of 3 No. VES has been conducted in Mouza Barmasia, in block Sikaripara of Dumka District. 1D- Resistivity estimating computer programmed was used in this survey to determine the appropriate resistivity values at this site. The interpreted result of VES shows only two geo-electrical layers.

Vertical Electrical Sounding (VES -1): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity varies from 4 ohm-m to 7 ohm-m and thickness approx. 6 m. The second layer resistivity varies from 225 ohm-m to high and thickness varies from 6 m to 60 m indicating hard to very hard compact formation. It is Rajmahal formation, i.e. Basalt rock. There is no weathered rocks and water saturated sub surface water bearing zones in this surveyed point (VES-1). Further preparation of litho log as mentioned in table 4 indicates a minimum resistivity of 7 to maximum of high ohm m depicts very hard rock formations at greater depth

Table - 4: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Soil/Semi weathered Rock	4 to 7	00 to 06
2	Hard to very Hard Rock	225 to High	2 to 60

Vertical Electrical Sounding (VES -2): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity varies from 5 ohm-m to 40 ohm-m and thickness approx. 8 m. The second layer resistivity varies from 241-ohm-m to high and thickness varies from 8 m to 18 m indicating hard to very hard compact formation. It is Rajmahal formation, i.e. Basalt rock. Third layer resistivity ranges 16 depicting weathered water saturated zone. Fourth layer resistivity ranges high indicating hard to very hard compact formation. It is Rajmahal formation, i.e. Basalt rock. Further preparation of litho log as mentioned in table 5 indicates a minimum resistivity of 5 to maximum of high ohm m depicts very hard rock formations at greater depth

Table - 5: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Soil/Semi weathered Rocks	5 to 40	00 to 08
2	Hard rock	241 to high	08 to 18
3	Weathered water saturated rock	16	18 to 20
4	Very Hard Rock	High	20 to 60

Approved

GEO HYDROLOGICAL SURVEY REPORT

Vertical Electrical Sounding (VES -3): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity ranges 6 to 41 ohm-m and thickness approx. 8 m, interprets Soil/weathered Rock. The second layer resistivity ranges high ohm-m and thickness varies from 8 m to 60 m indicating very hard and compact rock formation with a thickness of 52 m. It is Rajmahal formation, i.e. Basalt rock. Further, there is no weathered/semi weathered rocks and water saturated sub surface water bearing zones in this surveyed point (VES-1). Further preparation of litho log as mentioned in table 6 indicates a minimum resistivity of 6 to maximum of high depicts very hard rock formations at greater depth Table - 6: Zones identified with respect to resistivity ranges in ohm. m (Litholog)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Soil/weathered Rocks	6 to 41	00 to 08
2	Hard to very Hard Rock	High	8 to 60

Further, the analysis of geo-electrical sounding data, indicates that there are an average of 6 to 8 m thick soil/semi weathered rock formation no sub surface water bearing zones in this site on interpretation of results with standard resistivity of various rocks (Table-3). Consolidated hard & compact rock is encountered below 6 m depth with massive thickness of depth. Based on this survey the water bearing zone/ aquifer may be encounter only in VES no 2. As per mining plan drawings the maximum depth of mining will be above 30 m depth in this mine site, hence there is no effect of mining on underground water table. The mining will be done above the mentioned depth based on mining plan. The proposed stone mine site is suitable for stone mining activity.



Dr. Amarjeet Kumar Singh
Qualified person

GEO HYDROLOGICAL SURVEY REPORT
OF
MAA AMBEY STONE PRODUCT

Plot Nos. 730, 734, 735, 736, 737, 738, 748(P) & 749 (P)

Mouza – Majhaladih

District - Dumka, State – Jharkhand

USING

Instrument Model: SSR MP ATS

Method - Schlumberger Array

Project Proponent

Maa Ambey Stone Product

Prop. Sri Ajay Kumar Bhagat

S/o Sri Bajinath Bhagat

Village & PO – Ganpura, Thana – Pakuria, District - Pakur, Jharkhand

Survey by

Dr. Amarjeet Kumar Singh

Consultant Hydro Geologist

At - Lal Bangla, PO - KG Ashram, District - Dhanbad, State - Jharkhand - 826109

Registered QP by Department of Mines and Geology, Govt. of Jharkhand

(Approved Hydro geologist by MADA, Railway and D W & S Dept, Govt. of Jharkhand)

Mob: 9431508228

E- mail: amarjeet.dhanbad@gmail.com

2024



GEO HYDROLOGICAL SURVEY REPORT

Introduction : On the receipt of request from **Maa Ambey Stone Product** of Sri Ajay Kumar Bhagat S/o Sri Bajinath Bhagat, Village & PO – Ganpura, Thana - Pakuria in District Pakur, Jharkhand for conducting Geo hydrological testing/report including depth of aquifers based on Jharkhand Gazette (Extra Ordinary). Published on 02 March 2017, Schedule IV (XII) Regarding Geo Hydrological Survey Report ; three Vertical Electrical Soundings (VES) have been carried out in the proposed Maa Ambey Stone Product site on Plot No 730, 734, 735, 736, 737, 738, 748 (P) & 749 (P) in Mouza Majnaladih, Block Sikaripara, District Dumka and state Jharkhand. The detailed Vertical Electrical Sounding (VES) locations (Table 1) & (Photo-1) and measured Apparent Resistivity Surveyed data in ohm m (Table 2) has been carried out on 28th August, 2024.

Geo Hydrologically, the area under investigation is characterized as hard & compact rock type. The availability of ground water would depend on the presence and extent of the weathered overburden, the presence of joints and fractures underlying bedrocks. In general, these types of rocks are poor source of ground water. This is mainly due to its less permeability and porosity. On literature survey and based on field investigation it was observed that Rajmahal formation of basaltic rock/stone and recent alluvium are common in this area. Therefore, on the request of applicant Maa Ambet Stone Product of Sri Ajay Kumar Bhagat S/o Sri Bajinath Bhagat, Village & PO – Ganpura, Thana - Pakuria in District Pakur Jharkhand; an attempt has been made to delineate the sub surface and underlying bedrocks strata conditions using resistivity techniques.

Literature Review: Geophysical methods, especially Geo physical Electric Resistivity Survey techniques can give better solutions indirectly in locating ground water in unexplored hard rocky terrains. Despite some limitations, resistivity survey method is the most commonly used and feasible technique to explore ground water aquifers in recent years. Resistivity methods measure sub surface resistivity distribution from ground surface. This method is based on the electrical resistivity of the rock formations. There are no fixed limits for resistivity of various rocks. Resistivity of rock formation vary over a wide range depending on the material, density, porosity pore size and shape, water contents and quality of water. (Table 3)

Four electrodes (2 currents and 2 potential electrodes) are in practice to get the resistivity of the different strata beneath the earth crust. To get the thickness and depth of aquifer (water bearing rocks) below ground level, vertical electrical sounding (VES) has been carried out. These measurements are normally made by passing electric current in to the ground through two metallic electrodes and measuring the resulting voltage difference at two potential electrodes. From these measurements, the true resistivity of the sub surface can be estimated. (Figure - 2)



Table 1: Location of VES points with GPS Coordinates on Majhaladin Stone Mine Site in Dumka district.

S. No	Vertical Electrical Sounding (VES)	Latitudes & Longitudes
1	VES-1	N 24°11'.44.7" & E87°34'33.1"
2	VES-2	N 24°11'.43.5" & E87°34'34.7"
3	VES-3	N 24°11'.42.8" & E87°34'35.9"

Geological setup of the area: Geologically, Dumka district (GSI) is represented by Chota nagpur Granite-Gneiss of Archaean age to Proterozoic and Eastern Ghat super Group of Archaean age, which are overlain by Gondwana Super Group, Raj mahal basaltic lava flows (Upper Jurrassic to lower cretaceous age) with inter trappean beds and at places Laterites

The Chotanagpur Gneissic complex is largely represented lithological unit in the area and covers the major part of the district uninterruptedly. They form more or less gently undulating plains and high grounds pediments and buried pediments, seldom giving rise to small hillocks mounds. They are mostly biotite gneisses and granite gneisses and in general coarse grained with porphyroblastic texture and traversed by pegmatite and quartz vein of various dimensions. It contains enclave of amphibolites and mica schists.

The precambrian formations/Gondwana formations are further overlapped by Rajmahal Traps consists of basaltic lava flows with sedimentary intertrappeans. The basaltic rocks are hard and fine to medium grained. Some of the lava flows are vesicular and cavities being filled by calcite and chalcedony. The non vesicular lava flows are hard, tough, compact and fine to medium grained in nature. The vesicular types are comparatively soft and break easily. They are greenish to dark in colour with number of flows not clearly delineated in this district. In general, the Rajmahal traps show vertical to horizontal joints trending E-W and N-S. Typical columnar joints are also common. These rocks are weathered with characteristic spherical exfoliation which gives rise to large rounded boulders as the out crops. It has been proved that basalts too are productive when either weathered or fractured.

Geologically the area of study lies within Rajmahal trap, which underlain by a wide range of geological formations ranging in age from Archaean to Recent. The common rock formation in this area is Basalt. Topographically area under investigation is uneven and undulating in nature. The high grounds are being separated between low grounds. A very thin soil cover is observed.



Dr. Amarjeet Kumar Singh
Qualified person

Instrumentation & measurement techniques: Methodology includes detailed investigation carried out in field as well as laboratory for exploring, estimation and recommendation of suitable sites for stone explorations. Three Vertical Electrical Soundings (VES) in the proposed study area were carried out by using SSR-MP-ATS, instrument. Schlumberger configuration was used with maximum electrode spacing between the center of the electrode configuration and outer most current electrode (AB/2) equal to 90 meters. For interpretation of measured data computer-based software were used in the laboratory. The 1D- Resistivity estimating computer programmed was used in this survey to determine the appropriate resistivity values in the laboratory.

Results:

The perusal of Table No.-2 indicates that the results of measured apparent resistivity in the field. The apparent resistivity observed in this site is ranges from 24 - ohm m to 225 – ohm m in VES-1, 25- ohm m to 225 – ohm m in VES-2 and 46 - ohm m to 159 – ohm m in VES-3, respectively. The results as measured apparent resistivity ranges in ohm m are given in table 2 and the measured apparent resistivity vs depth graph is given in figure 1. The result of all surveyed points indicates, almost similar nature of resistivity graph from top to bottom, interpreted hard rock formations without any fracture zone.

Table: 2. showing results of Measured Apparent Resistivity in Ohm m

Depth (m)	Apparent Resistivity in (ohm. M)		
	VES-1	VES-2	VES-3
3	24	25	46
6	25	33	49
9	33	39	55
12	39	49	69
15	46	55	78
18	54	59	86
21	62	61	92
24	70	66	101
27	78	72	104
30	76	78	108
35	84	89	114
40	91	101	124
45	100	112	130
50	198	121	140
60	225	148	159
70	---	179	---
80	---	194	---
90	---	225	---

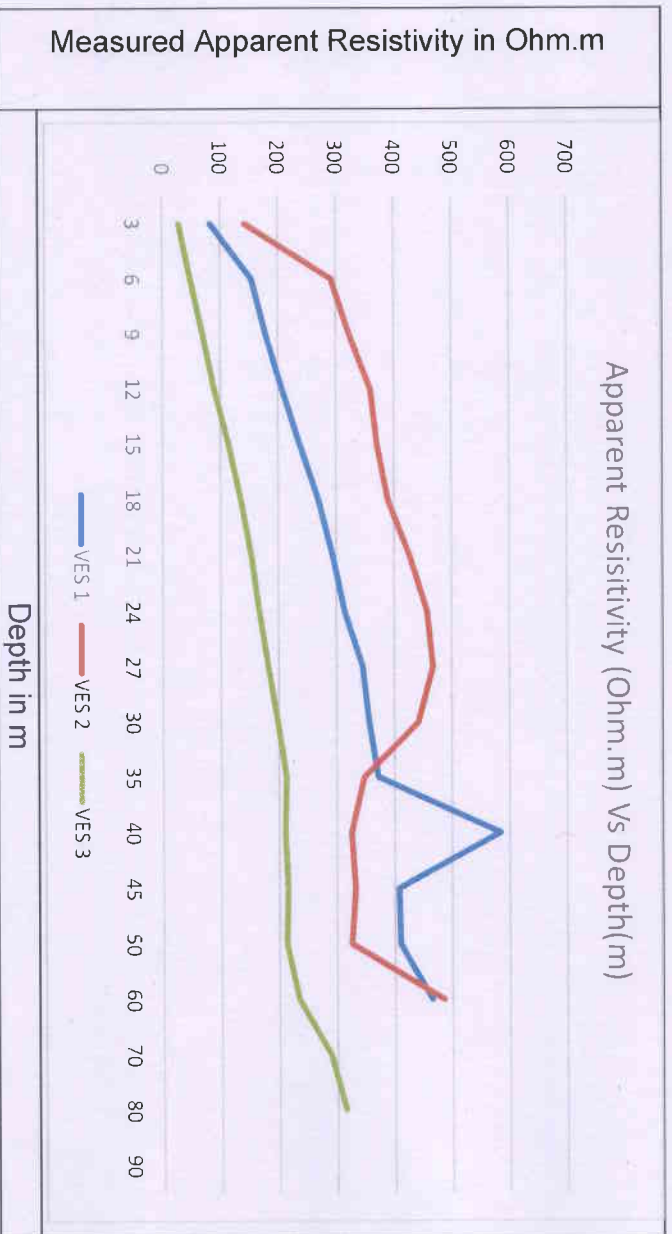


Dr. Amarjeet Kumar Singh
Qualified person

Table: 3 Resistivity's of some common rocks. (Keller and Frischknecht, 1966, Daniels and Albery, 1966)

Material	Resistivity in Ohm.m
Granite	5×10^3 to 10^6
Basalt	10^2 to 10^6
Slate	6×10^3 to 4×10^7
Quartzite	10^2 to 2×10^8
Sandstone	8 to 4×10^3
Shale	20 to 2×10^3
Clay	1 to 100
Alluvium	10 to 800
Ground water (Fresh)	10 to 100

Figure 1 : Showing measured apparent resistivity vs depth in proposed site



Interpretations: A total of 3 No VES has been conducted in Mouza Majhaladli, block Sikaripara of Dumka District. 1D- Resistivity estimating computer programmed was used in this survey to determine the appropriate resistivity values at this site. The interpreted results of VES show two to four geo-electrical layers.



Vertical Electrical Sounding (VES -1): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity varies from 24 ohm-m to 96 ohm-m and thickness approx. 8 m. The second layer resistivity ranges 164 ohm-m and thickness of 2 m indicating semi weathered rock. The third layer resistivity varies from 300 ohm-m to 1234 ohm-m indicating hard to very hard compact formation. It is Rajmahal formation, i.e. Basalt rock. Fourth layer resistivity ranges only 62-ohm.m interprets 2m water saturated weathered zone. Fifth layer resistivity ranges high indicating hard to very hard compact formation. It is Rajmahal formation, i.e. Basalt rock. Further preparation of litho log as mentioned in table 4 indicates a minimum resistivity of 24 to maximum of more than 1234-ohm m depicts very hard rock formations at greater depth

Table - 4: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Soil/weathered Rocks	24 to 96	00 to 08
2	Semi weathered	164	08 to 10
3	Hard Rocks	300 to 1234	10 to 18
4	Weathered water saturated rock	62	18 to 20
5	Hard Rocks	> 1234	20 to 60

Vertical Electrical Sounding (VES -2): Analysis of geo-electrical sounding data with standard value of some rocks as mentioned in table-3, the top layer resistivity varies from 25 ohm-m to 59 ohm-m and thickness approx. 6 m. The second layer resistivity varies from 105 ohm-m to 220 ohm-m and thickness varies from 6 m to 10 m indicating Semi weathered formation. The third layer resistivity varies from 86 ohm-m to 143 ohm-m indicating weathered water saturated zone. The fourth layer resistivity varies from 242 ohm-m to 1032 with thickness 16 to 60 m indicating very hard and compact rock formation. It is Rajmahal formation, i.e. Basalt rock. Further preparation of litho log as mentioned in table 5 indicates a minimum resistivity of 25 to maximum of more than 1032-ohm m depicts very hard rock formations at greater depth

Table - 5: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Soil/Semi weathered Rock	25 to 59	00 to 06
2	Semi weathered Rock	105 to 220	6 to 10
3	Weathered water saturated rock	86 to 143	10 to 16
4	Hard Rock	242 to 1032	16 to 60



Vertical Electrical Sounding (VES -3): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity varies from 46 ohm-m to 76 ohm-m and thickness approx. 6 m. The second layer resistivity ranges 269 ohm-m and thickness ranges from 6 m to 8 m indicating hard rock. The third layer resistivity varies from 161 ohm-m to 178 ohm-m indicating semi weathered formation with a thickness of 6 m. The fourth layer varies from 285 ohm-m to high resistivity with thickness 14 to 16 m indicating hard and compact rock formation. It is Rajmahal formation, i.e. Basalt rock. Fifth layer resistivity ranges 130 to 175 ohm.m indicating semi weathered formation with a thickness of 7 m and Sixth layer resistivity ranges 194 to 567 ohm.m indicating hard and compact rock formation. It is Rajmahal formation, i.e. Basalt rock. Further, there is no weathered/semi weathered rocks and water saturated sub surface water bearing zones in this surveyed point (VES-3). Further preparation of litho log as mentioned in table 4 indicates a minimum resistivity of 46 to maximum high ohm m depicts very hard rock formations at greater depth

Table - 6: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Soil/Semi weathered Rocks	46 to 76	0 to 06
2	Hard Rocks	269	6 to 8
3	Semi weathered rocks	161 to 178	8 to 14
4	Hard Rocks	285	14 to 16
5	Semi weathered rocks	130 to 175	16 to 23
6	Very Hard Rocks	194 to 567	23 to 60

Further, the analysis of geo-electrical sounding data, indicates that there is no sub surface water bearing zones in this site and also an interpretation of results with standard resistivity of various rocks (Table-3) indicates that the top soil consisting of loose material has average thickness of approximately 6 to 8 m depth, while consolidated hard rock is encountered below 8 m depth with massive thickness at 8 m to 20 m depth. Based on this survey the water bearing aquifers are found at 18 to 20 m (VES 1) & 10 to 16 m (VES 2) to depth in this site. As per mining plan drawings the maximum depth of mining will be above 20 m depth in this mine site, hence there is no effect of mining on underground water table. The mining will be done above the mentioned depth based on mining plan. The proposed stone mine site is suitable for stone mining activity.



Dr. Amarjeet Kumar Singh
Qualified person

GEO HYDROLOGICAL SURVEY REPORT
OF
PAHARPUR STONE MINE

Dag Nos. 818, 819, 820, 821(P), 822(P), 823 (P) & 824(P)

Mouza – Paharpur, Block - Sikaripara

District – Dumka, State – Jharkhand

USING

Instrument Model: SSR MP ATS

Method - Schlumberger Array

Project Proponent

Partner 1. Sri Arun Kumar Saha

S/o late Balgovind Saha

Village & PO –Sikaripara, District- Dumka, Jharkhand

Partner 2. Lal Babu Ansari

S/o Yasin Ansari

Village - Dhakopara, PO – Nimdaspur, District- Birbhum, (W.B)

Survey by

Dr. Amarjeet Kumar Singh

Consultant Hydro Geologist

At - Lal Bangla, PO - KG Ashram, District - Dhanbad, State - Jharkhand - 826109

Registered QP by Department of Mines and Geology, Govt. of Jharkhand

(Approved Hydro geologist by MADA, Railway and D W & S Dept, Govt. of Jharkhand)

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2024



GEO HYDROLOGICAL SURVEY REPORT

Introduction : On the receipt of request from **Paharpur Stone Mine** of its partners Sri Arun Kumar Sah S/o late Balgovind Sah, Village & PO - Sikaripara in District- Dumka and Lal Babu Ansari S/o Yasin Ansari, village Dhakopara, PO – Nimdaspur, District- Birbhum, (W/B) for conducting Geo hydrological testing/report including depth of aquifers based on Jharkhand Gazette (Extra Ordinary), Published on 02 March 2017, Schedule IV (XII) Regarding Geo Hydrological Survey Report ; three Vertical Electrical Soundings (VES) have been carried out in the proposed Paharpur Stone Mine site on Dag No 818, 819, 820, 821(P), 822(P), 823 (P) & 824(P) in Mouza Paharpur, Block Sikaripara, District Dumka and state Jharkhand. The detailed Vertical Electrical Sounding (VES) locations (Table 1) & (Photo-1) and measured Apparent Resistivity Surveyed data in ohm m (Table 2) has been carried out on 29th August, 2024.

Geo Hydrologically, the area under investigation is characterized as hard & compact rock type. The availability of ground water would depend on the presence and extent of the weathered overburden, the presence of joints and fractures underlying bedrocks. In general, these types of rocks are poor source of ground water. This is mainly due to its less permeability and porosity. On literature survey and based on field investigation it was observed that Rajmahal formation of basaltic rock/stone and recent alluvium are common in this area. Therefore, on the request of applicant partners Sri Arun Kumar Sah S/o late Balgovind Sah, Village & PO - Sikaripara in District- Dumka and Lal Babu Ansari S/o Yasin Ansari, village Dhakopara, PO – Nimdaspur, District- Birbhum, (W/B); an attempt has been made to delineate the sub surface and underlying bedrocks strata conditions using resistivity techniques.

Literature Review: Geophysical methods, especially Geo physical Electric Resistivity Survey techniques can give better solutions indirectly in locating ground water in unexplored hard rocky terrains. Despite some limitations, resistivity survey method is the most commonly used and feasible technique to explore ground water aquifers in recent years. Resistivity methods measure sub surface resistivity distribution from ground surface. This method is based on the electrical resistivity of the rock formations. There are no fixed limits for resistivity of various rocks. Resistivity of rock formation vary over a wide range depending on the material, density, porosity pore size and shape, water contents and quality of water. (Table 3)

Four electrodes (2 currents and 2 potential electrodes) are in practice to get the resistivity of the different strata beneath the earth crust. To get the thickness and depth of aquifer (water bearing rocks) below ground level, vertical electrical sounding (VES) has been carried out. These measurements are normally made by passing electric current in to the ground through two metallic electrodes and measuring the resulting voltage difference at two potential electrodes. From these measurements, the true resistivity of the sub surface can be estimated. (Figure - 2)



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Table 1: Location of VES points with GPS Coordinates on Paharpur Stone Mine in Dumka district.

S. No	Vertical Electrical Sounding (VES)	Latitudes & Longitudes
1	VES-1	N 24°11' 27.3" & E87°35'12.0"
2	VES-2	N 24°11' 27.5" & E87°35'14.4"
3	VES-3	N 24°11' 26.0" & E87°35'15.9"

Geological setup of the area: Geologically, Dumka district (according GSI) is represented by Chota nagpur Granite-Gneiss of Archaean age to Proterozoic and Eastern Ghat super Group of Archaean age, which are overlain by Gondwana Super Group, Raj mahal basaltic lava flows (Upper Jurassic to lower cretaceous age) with inter trappan beds and at places Laterites

The Chotanagpur Gneissic complex is largely represented lithological unit in the area and covers the major part of the district uninterrupted. They form more or less gently undulating plains and high grounds pediments and buried pediments, seldom giving rise to small hillocks mounds. They are mostly biotite gneisses and granite gneisses and in general coarse grained with porphyroblastic texture and traversed by pegmatite and quartz vein of various dimensions. It contains enclave of amphibolites and mica schists.

The precambrian formations/Gondwana formations are further overlapped by Rajmahal Traps consists of basaltic lava flows with sedimentary intertrappeans. The basaltic rocks are hard and fine to medium grained. Some of the lava flows are vesicular and cavities being filled by calcite and chalcedony. The non vesicular lava flows are hard, tough, compact and fine to medium grained in nature. The vesicular types are comparatively soft and break easily. They are greenish to dark in colour with number of flows not clearly delineated in this district. In general, the Rajmahal traps show vertical to horizontal joints trending E-W and N-S. Typical columnar joints are also common. These rocks are weathered with characteristic spherical exfoliation which gives rise to large rounded boulders as the out crops. It has been proved that basalts too are productive when either weathered or fractured.

Geologically the area of study lies within Rajmahal trap, which underlain by a wide range of geological formations ranging in age from Archaean to Recent. The common rock formation in this area is Basalt. Topographically area under investigation is uneven and undulating in nature. The high grounds are being separated between low grounds. A very thin soil cover is observed.



Dr. Amarjeet Kumar Singh
Qualified person

Instrumentation & measurement techniques: Methodology includes detailed investigation carried out in field as well as laboratory for exploring, estimation and recommendation of suitable sites for stone explorations. Three Vertical Electrical Soundings (VES) in the proposed study area were carried out by using SSR-MP-ATS, instrument. Schlumberger configuration was used with maximum electrode spacing between the center of the electrode configuration and outer most current electrode (AB/2) equal to 90 meters. For interpretation of measured data computer based software were used in the laboratory. The 1D- Resistivity estimating computer programme was used in this survey to determine the appropriate resistivity values in the laboratory.

Results:

The perusal of Table No.-2 indicates that the results of measured apparent resistivity in the field. The apparent resistivity observed in this site is ranges from 84 - ohm m to 1581 – ohm m in VES-1, 142- ohm m to 1048 – ohm m in VES-2 and 29 - ohm m to 1964 – ohm m in VES-3, respectively. The results as measured apparent resistivity ranges in ohm m are given in table 2 and the measured apparent resistivity vs depth graph is given in figure 1. The result of all surveyed points indicates, almost similar nature of resistivity graph from top to bottom, interpreted hard rock formations without any fracture zone.

Table: 2. showing results of Measured Apparent Resistivity in Ohm m

Depth (m)	Apparent Resistivity in (ohm. M)		
	VES-1	VES-2	VES-3
3	21	73	33
6	33	80	30
9	38	102	35
12	47	125	43
15	55	136	54
18	61	144	67
21	69	156	73
24	77	162	76
27	86	178	80
30	96	177	81
35	104	180	82
40	113	221	84
45	110	203	85
50	108	181	115
60	97	220	132
70	94	---	---
80	115	---	---
90	140	---	---

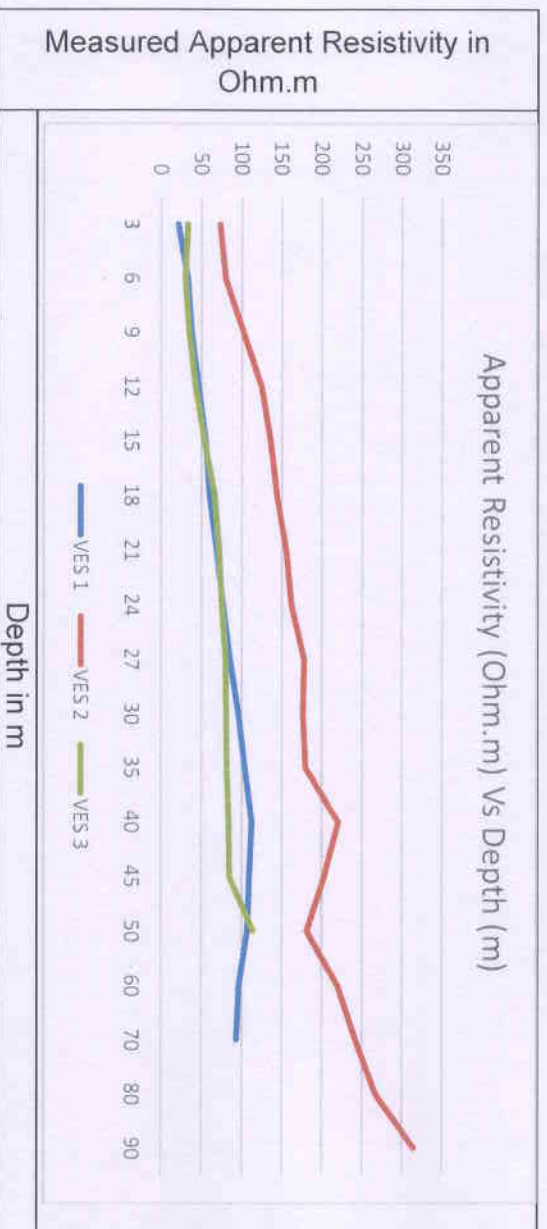


Dr. Amarjeet Kumar Singh
Qualified person

Table: 3 Resistivity's of some common rocks. (Keller and Frischknecht, 1966, Daniels and Alberty, 1966)

Material	Resistivity in Ohm.m
Granite	5×10^3 to 10^6
Basalt	10^2 to 10^6
Slate	6×10^3 to 4×10^7
Quartzite	10^2 to 2×10^8
Sandstone	8 to 4×10^3
Shale	20 to 2×10^3
Clay	1 to 100
Alluvium	10 to 800
Ground water (Fresh)	10 to 100

Figure 1 : Showing measured apparent resistivity vs depth in proposed site



Interpretations: A total of 3 No. VES has been conducted in Mouza Paharpur, block Sikaripara of Dumka District. 1D- Resistivity estimating computer programmed was used in this survey to determine the appropriate resistivity values at this site. The interpreted results of VES show two to six geo-electrical layers.



Vertical Electrical Sounding (VES -1): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity varies from 21 ohm-m to 65 ohm-m and thickness approx. 6 m. The second layer resistivity varies from 134 ohm-m to 185 ohm-m and thickness varies from 6 m to 12 m indicating semi weathered Rocks. The third layer resistivity varies from 227 ohm-m to 991 ohm-m indicating very hard and compact rock formation with a thickness of 15 m. It is Rajmahal formation, i.e. Basalt rock. The fourth layer varies from 65 ohm-m to 95 with thickness 20 m indicating highly weathered water saturated zone. Fifth layer is very hard formation and thickness of approx. 13m. Further preparation of litho log as mentioned in table 4 indicates a minimum resistivity of 21 to maximum of more than 991-ohm m depicts very hard rock formations at greater depth

Table - 4: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Soil	21 to 65	00 to 06
2	Semi weathered Rocks	134 to 185	06 to 12
3	Hard Rocks	227 to 991	12 to 27
4	Water saturated weathered rock	65 to 95	27 to 47
2	Very Hard Rocks	> 991 to very high	47 to 60

Vertical Electrical Sounding (VES -2): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity varies from 73 ohm-m to 89 ohm-m and thickness approx. 4 m. The second layer resistivity varies from 207 ohm-m to 688 ohm-m and thickness varies from 4 m to 18 m indicating hard to very hard compact formation. It is Rajmahal formation, i.e. Basalt rock. The third layer resistivity varies from 170 ohm-m to 200 ohm-m indicating Semi weathered formation with a thickness of 5 m. The fourth layer resistivity ranges high with thickness 4 m indicating very hard and compact rock formation. The fifth layer resistivity varies from 90 ohm-m to 123 ohm-m indicating semi weathered formation with weathered water saturated zone with a thickness of 6m and further sixth layer resistivity ranges high indicating hard to very hard compact formation. Further preparation of litho log as mentioned in table 5 indicates a minimum resistivity of 73 to maximum of more than 688-ohm m depicts very hard rock formations at greater depth



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Qualified person

Table - 5: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Soil/Semi weathered Rock	73 to 89	00 to 04
2	Hard Rocks	207 to 688	04 to 18
3	Semi weathered rock	170 to 200	18 to 23
4	Hard Rock	High	23 to 27
5	Weathered rock	90 to 123	27 to 33
6	Hard Rock	> 688 to high	33 to 60

Vertical Electrical Sounding (VES -3): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity varies from 33 ohm-m to 116 ohm-m and thickness approx. 8 m. The second layer resistivity is high and thickness varies from 4 m indicating hard rock. The third layer resistivity varies from 107 ohm-m to 158 ohm-m indicating semi weathered rocks with a thickness of 6 m. It is Rajmahal formation, i.e. Basalt rock. The fourth layer varies from 86 ohm-m to 106 resistivity with thickness of 18 to 30 m indicating weathered water saturated zone. Further preparation of litho log as mentioned in table 6 indicates a minimum resistivity of 33 to maximum of high depicts very hard rock formations at greater depth

Table - 6: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Soil/Semi weathered Rocks/weathered rock	33 to 116	00 to 08
2	Hard Rocks	High	8 to 12
3	Semi weathered rocks	107 to 158	12 to 18
4	Weathered water saturated rock	86 to 106	18 to 30
5	Very Hard Rocks	High	30 to 60

Further, the analysis of geo-electrical sounding data, indicates that there is no sub surface water bearing zones in this site and also an interpretation of results with standard resistivity of various rocks (Table-3) indicates that the top soil consisting of loose material has average thickness of approximately 4 to 8 m depth, while consolidated hard rock is encountered below 8 m depth with massive thickness at 8 m to 20 m depth. Based on this survey the water bearing aquifers are found at average depth of 27 m depth in this site. As per mining plan drawings the maximum depth of mining will be above 27 m depth in this mine site, hence there is no effect of mining on underground water table. The mining will be done above the mentioned depth based on mining plan. The proposed stone mine site is suitable for stone mining activity.



GEO HYDROLOGICAL SURVEY REPORT
OF
SAHARPUR STONE MINE

J B No. 19, 07, 30, 17, 45 & 26

Dag Nos. 187(P), 188(P), 189(P), 190, 191, 192(P), 193(P),
194, 195, 196, 197(P), 218 (P) & 219

Mouza - Saharpur, Block - Sikaripara's
District - Dumka, State - Jharkhand

USING

Instrument Model: SSR MP ATS

Method - Schlumberger Array

Project Proponent

Sri Santosh Yadav

S/o Sri Prayag Yadav

Village Charmil, PO – Devchanda, District Hazaribag, Jharkhand

Survey by

Dr. Amarjeet Kumar Singh

Consultant Hydro Geologist

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Registered QP by Department of Mines and Geology, Govt. of Jharkhand

(Approved Hydro geologist by MADA, Railway and D W & S Dept, Govt. of Jharkhand)

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2024



GEO HYDROLOGICAL SURVEY REPORT

Introduction : On the receipt of request from **Saharpur Stone Mine**; owner Sri Santosh Yadav S/o Sri Prayag Yadav, Village Char mil, PO Devchanda in District Hazaribag for conducting Geo hydrological testing/report including depth of aquifers based on Jharkhand Gazette (Extra Ordinary), Published on 02 March 2017, Schedule IV (XII) Regarding Geo Hydrological Survey Report ; three Vertical Electrical Soundings (VES) have been carried out in the proposed Saharpur Stone Mine site on Dag No 187(P), 188(P), 189(P), 190, 191, 192(P), 193(P), 194, 195, 196, 197(P), 218(P) & 219, J B No -19, 07, 30, 17, 45, 26 in Mouza Saharpur, Block Sikaripara, District Dumka and state Jharkhand (Photo-1). The detailed Vertical Electrical Sounding (VES) locations (Table - 1) & (Photo -1) and measured Apparent Resistivity Surveyed data in ohm m (Table 2) has been carried out on 29th August, 2024.

Geo Hydrologically, the area under investigation is characterized as hard & compact rock type. The availability of ground water would depend on the presence and extent of the weathered overburden, the presence of joints and fractures underlying bedrocks. In general, these types of rocks are poor source of ground water. This is mainly due to its less permeability and porosity. On literature survey and based on field investigation it was observed that Rajmahal trap formation of basaltic rock/stone and recent alluvium are common in this area. Therefore, on the request of applicant Sri Santosh Yadav S/o Sri Prayag Yadav, Village Char mil, PO Devchanda in District Hazaribag Jharkhand; an attempt has been made to delineate the sub surface and underlying bedrocks strata conditions using resistivity techniques.

Literature Review: Geophysical methods, especially Geo physical Electric Resistivity Survey techniques can give better solutions indirectly in locating ground water in unexplored hard rocky terrains. Despite some limitations, resistivity survey method is the most commonly used and feasible technique to explore ground water aquifers in recent years. Resistivity methods measure sub surface resistivity distribution from ground surface. This method is based on the electrical resistivity of the rock formations. There are no fixed limits for resistivity of various rocks. Resistivity of rock formation vary over a wide range depending on the material, density, porosity pore size and shape, water contents and quality of water. (Table 3)

Four electrodes (2 currents and 2 potential electrodes) are in practice to get the resistivity of the different strata beneath the earth crust. To get the thickness and depth of aquifer (water bearing rocks) below ground level, vertical electrical sounding (VES) has been carried out. These measurements are normally made by passing electric current in to the ground through two metallic electrodes and measuring the resulting voltage difference at two potential electrodes. From these measurements, the true resistivity of the sub surface can be estimated. (Figure - 2)



Table 1: Location of VES points with GPS Coordinates on Saharpur Stone Mine in Dumka district.

S. No	Vertical Electrical Sounding (VES)	Latitudes & Longitudes
1	VES-1	N 24°10'.43.5" & E87°34'48.6"
2	VES-2	N 24°10'.44.9" & E87°34'49.4"
3	VES-3	N 24°10'.42.7" & E87°34'51.1"

Geological setup of the area: Geologically, Dumka district (according GSI) is represented by Chota nagpur Granite-Gneiss of Archaean age to Proterozoic and Eastern Ghat super Group of Archaean age, which are overlain by Gondwana Super Group, Raj mahal basaltic lava flows (Upper Jurrassic to lower cretaceous age) with inter trappan beds and at places Laterites

The Chotanagpur Gneissic complex is largely represented lithological unit in the area and covers the major part of the district uninterrupted. They form more or less gently undulating plains and high grounds pediments and buried pediments, seldom giving rise to small hillocks mounds. They are mostly biotite gneisses and granite gneisses and in general coarse grained with porphyroblastic texture and traversed by pegmatite and quartz vein of various dimensions. It contains enclave of amphibolites and mica schists.

The precambrian formations/Gondwana formations are further overlapped by Rajmahal Traps consists of basaltic lava flows with sedimentary intertrappeans. The basaltic rocks are hard and fine to medium grained. Some of the lava flows are vesicular and cavities being filled by calcite and chalcedony. The non vesicular lava flows are hard, tough, compact and fine to medium grained in nature. The vesicular types are comparatively soft and break easily. They are greenish to dark in colour with number of flows not clearly delineated in this district. In general, the Rajmahal traps show vertical to horizontal joints trending E-W and N-S. Typical columnar joints are also common. These rocks are weathered with characteristic spherical exfoliation which gives rise to large rounded boulders as the out crops. It has been proved that basalts too are productive when either weathered or fractured.

Geologically the area of study lies within Rajmahal trap, which underlain by a wide range of geological formations ranging in age from Archaean to Recent. The common rock formation in this area is Basalt. Topographically area under investigation is uneven and undulating in nature. The high grounds are being separated between low grounds. A very thin soil cover is observed.



3

Dr. Amarjeet Kumar Singh
Qualified person

Instrumentation & measurement techniques: Methodology includes detailed investigation carried out in field as well as laboratory for exploring, estimation and recommendation of suitable sites for stone explorations. Three Vertical Electrical Soundings (VES) in the proposed study area were carried out by using SSR-MP-ATS, instrument. Schlumberger configuration was used with maximum electrode spacing between the center of the electrode configuration and outer most current electrode (AB/2) equal to 90 meters. For interpretation of measured data computer based software were used in the laboratory. The 1D- Resistivity estimating computer programme was used in this survey to determine the appropriate resistivity values in the laboratory.

Results:

The perusal of Table No.-2 indicates that the results of measured apparent resistivity in the field. The apparent resistivity observed in this site is ranges from 84 - ohm m to 584 – ohm m in VES-1, 142- ohm m to 485– ohm m in VES-2 and 29 - ohm m to 354– ohm m in VES-3, respectively. The results as measured apparent resistivity ranges in ohm m are given in table 2 and the measured apparent resistivity vs depth graph is given in figure 1. The result of all surveyed points indicates, almost similar nature of resistivity graph from top to bottom, interpreted hard rock formations without any fracture zone.

Table: 2. showing results of Measured Apparent Resistivity in Ohm m

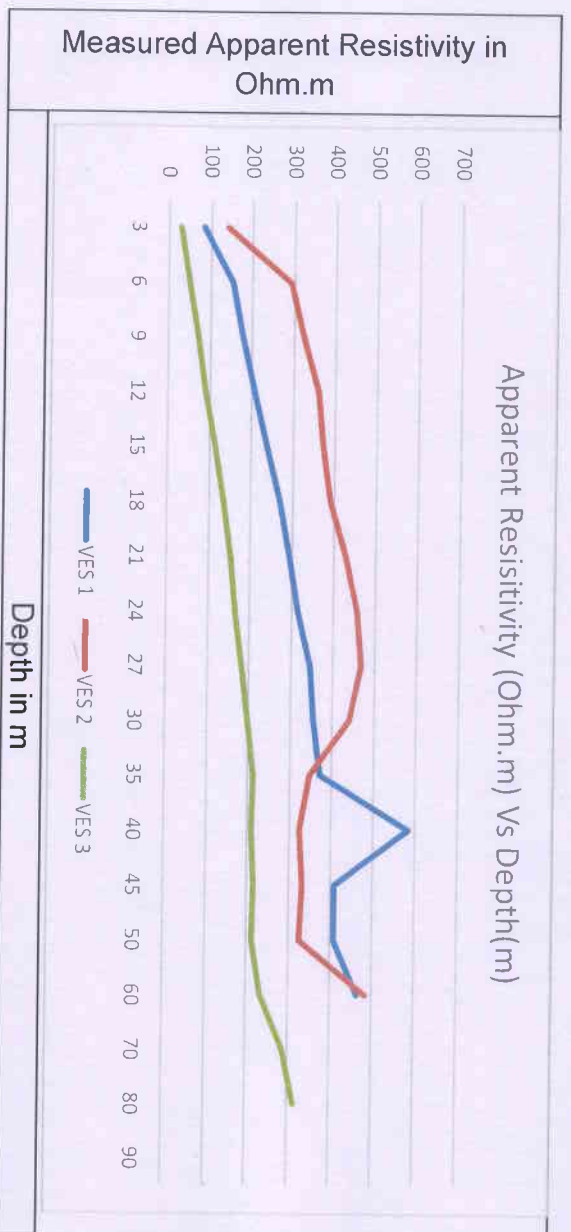
Depth (m)	Apparent Resistivity in (ohm. M)		
	VES-1	VES-2	VES-3
3	84	142	29
6	154	293	50
9	179	323	70
12	208	360	90
15	238	371	114
18	270	390	135
21	295	428	153
24	315	458	167
27	346	467	183
30	256	442	199
35	372	348	213
40	584	325	211
45	408	332	216
50	410	326	213
60	465	485	235
70	487	---	---
80	523	---	---
90	545	---	---



Table: 3 Resistivity's of some common rocks. (Keller and Frischknecht, 1966, Daniels and Alberty, 1966)

Material	Resistivity in Ohm.m
Granite	5×10^3 to 10^6
Basalt	10^2 to 10^6
Slate	6×10^3 to 4×10^7
Quartzite	10^2 to 2×10^8
Sandstone	8 to 4×10^3
Shale	20 to 2×10^3
Clay	1 to 100
Alluvium	10 to 800
Ground water (Fresh)	10 to 100

Figure 1 : Showing measured apparent resistivity vs depth in proposed site



Interpretations: A total of 3 No VES has been conducted in Mouza Saharpur, block Sikaripara of Dumka District. 1D- Resistivity estimating computer programmed was used in this survey to determine the appropriate resistivity values at this site. The interpreted results of VES show two to four geo-electrical layers.

Vertical Electrical Sounding (VES -1): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity varies from 1 ohm-m to 84 ohm-m and thickness approx. 2 m. The second layer resistivity varies from 267 ohm-m to 1581 ohm-m and thickness varies from 2 m to 40 m indicating hard to very hard compact formation. It is Raimahal formation, i.e. Basalt rock. There is no weathered rocks and water saturated sub surface water bearing zones in this surveyed point (VES-1). Further preparation of litho log as mentioned in table 4 indicates a minimum resistivity of 84 to maximum of more than 1581-ohm m depicts very hard rock formations at greater depth



Table - 4: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Soil/Semi weathered Rocks	1 to 84	00 to 02
2	Hard to Very Hard Rocks	84 to > 1581	2 to 60

Vertical Electrical Sounding (VES -2): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity varies from 1 ohm-m to 142 ohm-m and thickness approx. 2 m. The second layer resistivity varies from 299 ohm-m to 1048 ohm-m and thickness varies from 2 m to 20 m indicating hard to very hard compact formation. It is Rajmahal formation, i.e. Basalt rock. The third layer resistivity varies from 153 ohm-m to 220 ohm-m indicating Semi weathered formation with a thickness of 5 m. The fourth layer varies from 283 ohm-m to very high resistivity with thickness 20 to 60 m indicating very hard and compact rock formation. Further, there is no weathered/semi weathered rocks and water saturated sub surface water bearing zones in this surveyed point (VES-1). Further preparation of litho log as mentioned in table 5 indicates a minimum resistivity of 142 to maximum of more than 1042-ohm m depicts very hard rock formations at greater depth

Table - 5: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Soil/Semi weathered Rocks	1 to 142	00 to 02
2	Hard Rocks	299 to 1048	2 to 20
3	Semi weathered rocks	153 to 220	20 to 25
4	Very Hard Rocks	> 1048	25 to 60

Vertical Electrical Sounding (VES -3): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity varies from 29 ohm-m to 177-ohm-m and thickness approx. 2 m. The second layer resistivity varies from 334 ohm-m to 1964 ohm-m and thickness varies from 2 m to 23 m indicating hard and compact rocks. The third layer resistivity varies from 190 ohm-m to 265 ohm-m indicating semi weathered rock formation with a thickness of 10 m. The fourth layer varies from 1964 ohm-m to very high resistivity with thickness 33 to 60 m indicating very hard and compact rock formation. It is Rajmahal formation, i.e. Basalt rock. Further, there is no weathered/semi weathered rocks and water saturated sub surface water bearing zones in this surveyed point (VES-3). Further preparation of litho log as mentioned in table 6 indicates a minimum resistivity of 29 to maximum of more than 1964-ohm m depicts very hard rock formations at greater depth



Table - 6: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Soil/Semi weathered Rocks	29 to 177	00 to 02
2	Hard Rocks	334 to 1964	2 to 23
3	Semi weathered rocks	190 to 265	23 to 33
4	Very Hard Rocks	> 1964 to high	33 to 60

Further, the analysis of geo-electrical sounding data, indicates that there is no sub surface water bearing zones in this site and also an interpretation of results with standard resistivity of various rocks (Table-3) indicates that the top soil consisting of loose material has average thickness of approximately 2 m depth, while consolidated hard rock is encountered below 3 m depth with massive thickness at 3 m to 60 m depth. Based on this survey the water bearing aquifers are not found at a depth above 60 m depth in this site. As per mining plan drawings the maximum depth of mining will be above 35 m depth in this mine site, hence there is no effect of mining on underground water table. The mining will be done above the mentioned depth based on mining plan. The proposed stone mine site is suitable for stone mining activity.



GEO HYDROLOGICAL SURVEY REPORT
OF
SALBONA STONE MINE

JB No. 04, 06, 17 & 18
Dag Nos. 137(P), 140(P), 144(P), 142(P)

Mouza – Salbona, Block - Sikaripara
District – Dumka, State – Jharkhand

USING

Instrument Model: SSR MP ATS

Method - Schlumberger Array

Project Proponent

Sri Chhoto Budhray Hansda

S/o Shidho Hansda

Village Mohalbanna, PO – Pakdaha, District - Dumka, Jharkhand

Survey by

Dr. Amarjeet Kumar Singh

Consultant Hydro Geologist

At - Lal Bangla, PO - KG Ashram, District - Dhanbad, State - Jharkhand - 826109
Registered QP by Department of Mines and Geology, Govt. of Jharkhand
(Approved Hydro geologist by MADA, Railway and D W & S Dept, Govt. of Jharkhand)

Mob: 9431508228

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GEO HYDROLOGICAL SURVEY REPORT

Introduction : On the receipt of request from **Salbona Stone Mine** of Sri Chhoto Budhray Hansda S/o Shidho Hansda, Village Mohalbanna, PO Pakdaha in District Dumka for conducting Geo hydrological testing/report including depth of aquifers based on Jharkhand Gazette (Extra Ordinary), Published on 02 March 2017, Schedule IV (XII) Regarding Geo Hydrological Survey Report ; three Vertical Electrical Soundings (VES) have been carried out in the proposed Salbona Stone Mine site on Dag No 137 (P), 140(P), 141(P), 142(P) and J B No -04, 06, 17 & 18 in Mouza Salbona, Block Sikaripara, District Dumka and state Jharkhand (Photo-1). The detailed Vertical Electrical Sounding (VES) locations (Table 1) and measured Apparent Resistivity Surveyed data in ohm m (Table 2) has been carried out on 28th August, 2024.

Geo Hydrologically, the area under investigation is characterized as hard & compact rock type. The availability of ground water would depend on the presence and extent of the weathered overburden, the presence of joints and fractures underlying bedrocks. In general, these types of rocks are poor source of ground water. This is mainly due to its less permeability and porosity. On literature survey and based on field investigation it was observed that Rajmahal formation of basaltic rock/stone and recent alluvium are common in this area. Therefore, on the request of applicant Sri Chhoto Budhray Hansda S/o Shidho Hansda, Village Mohalbanna, PO Pakdaha in District Dumka, Jharkhand; an attempt has been made to delineate the sub surface and underlying bedrocks strata conditions using resistivity techniques.

Literature Review: Geophysical methods, especially Geo physical Electric Resistivity Survey techniques can give better solutions indirectly in locating ground water in unexplored hard rocky terrains. Despite some limitations, resistivity survey method is the most commonly used and feasible technique to explore ground water aquifers in recent years. Resistivity methods measure sub surface resistivity distribution from ground surface. This method is based on the electrical resistivity of the rock formations.

There are no fixed limits for resistivity of various rocks. Resistivity of rock formation vary over a wide range depending on the material, density, porosity pore size and shape, water contents and quality of water. (Table 3)

Four electrodes (2 currents and 2 potential electrodes) are in practice to get the resistivity of the different strata beneath the earth crust. To get the thickness and depth of aquifer (water bearing rocks) below ground level, vertical electrical sounding (VES) has been carried out. These measurements are normally made by passing electric current in to the ground through two metallic electrodes and measuring the resulting voltage difference at two potential electrodes. From these measurements, the true resistivity of the sub surface can be estimated. (Figure - 2)



Table 1 : Location of VES points with GPS Coordinates on Salbona Stone Mine in Dumka district.

S. No	Vertical Electrical Sounding (VES)	Latitudes & Longitudes
1	VES-1	N 24°10' 46.8" & E87°33'56.9"
2	VES-2	N 24°10' 46.1" & E87°33'58.2"
3	VES-3	N 24°10' 46.1" & E87°33'59.9"

Geological setup of the area: Geologically, Dumka district (GSI) is represented by Chota nagpur Granite-Gneiss of Archaean age to Proterozoic and Eastern Ghat super Group of Archaean age, which are overlain by Gondwana Super Group, Raj mahal basaltic lava flows (Upper Jurrassic to lower cretaceous age) with inter trappan beds and at places Laterites

The Chotanagpur Gneissic complex is largely represented lithological unit in the area and covers the major part of the district uninterrupted. They form more or less gently undulating plains and high grounds pediments and buried pediments, seldom giving rise to small hillocks mounds. They are mostly biotite gneisses and granite gneisses and in general coarse grained with porphroblastic texture and traversed by pegmatite and quartz vein of various dimensions. It contains enclave of amphibolites and mica schists.

The precambrian formations/Gondwana formations are further overlapped by Rajmahal Traps consists of basaltic lava flows with sedimentary intertrappeans. The basaltic rocks are hard and fine to medium grained. Some of the lava flows are vesicular and cavities being filled by calcite and chalcedony. The non vesicular lava flows are hard, tough, compact and fine to medium grained in nature. The vesicular types are comparatively soft and break easily. They are greenish to dark in colour with number of flows not clearly delineated in this district. In general, the Rajmahal traps show vertical to horizontal joints trending E-W and N-S. Typical columnar joints are also common. These rocks are weathered with characteristic spherical exfoliation which gives rise to large rounded boulders as the out crops. It has been proved that basalts too are productive when either weathered or fractured.

Geologically the area of study lies within Rajmahal trap, which underlain by a wide range of geological formations ranging in age from Archaean to Recent. The common rock formation in this area is Basalt. Topographically area under investigation is uneven and undulating in nature. The high grounds are being separated between low grounds. A very thin soil cover is observed.



Dr. Amarjeet Kumar Singh
Qualified person

Instrumentation & measurement techniques: Methodology includes detailed investigation carried out in field as well as laboratory for exploring, estimation and recommendation of suitable sites for stone explorations. Three Vertical Electrical Soundings (VES) in the proposed study area were carried out by using SSR-MP-ATS, instrument. Schlumberger configuration was used with maximum electrode spacing between the center of the electrode configuration and outer most current electrode (AB/2) equal to 90 meters. For interpretation of measured data computer based software were used in the laboratory. The 1D- Resistivity estimating computer programmed was used in this survey to determine the appropriate resistivity values in the laboratory.

Results:

The perusal of Table No.-2 indicates that the results of measured apparent resistivity in the field. The apparent resistivity observed in this site is ranges from 90 - ohm m to 390- ohm m in VES-1, 120-ohm m to 325 - ohm m in VES-2 and 215 - ohm m to 435- ohm m in VES-3, respectively. The results as measured apparent resistivity ranges in ohm m are given in table 2 and the measured apparent resistivity vs depth graph is given in figure 1. The result of all surveyed points indicates, almost similar nature of resistivity graph from top to bottom, interpreted hard rock formations without any fracture zone.

Table: 2. showing results of Measured Apparent Resistivity in Ohm m

Depth (m)	Apparent Resistivity in (ohm. M)		
	VES-1	VES-2	VES-3
3	90	147	275
6	92	120	277
9	121	144	265
12	150	171	255
15	184	192	249
18	196	229	254
21	294	261	253
24	319	283	233
27	345	294	215
30	382	307	225
35	378	313	236
40	380	325	256
45	390	322	275
50	320	312	291
60	347	285	340
70	---	---	358
80	---	---	412
90	---	---	435

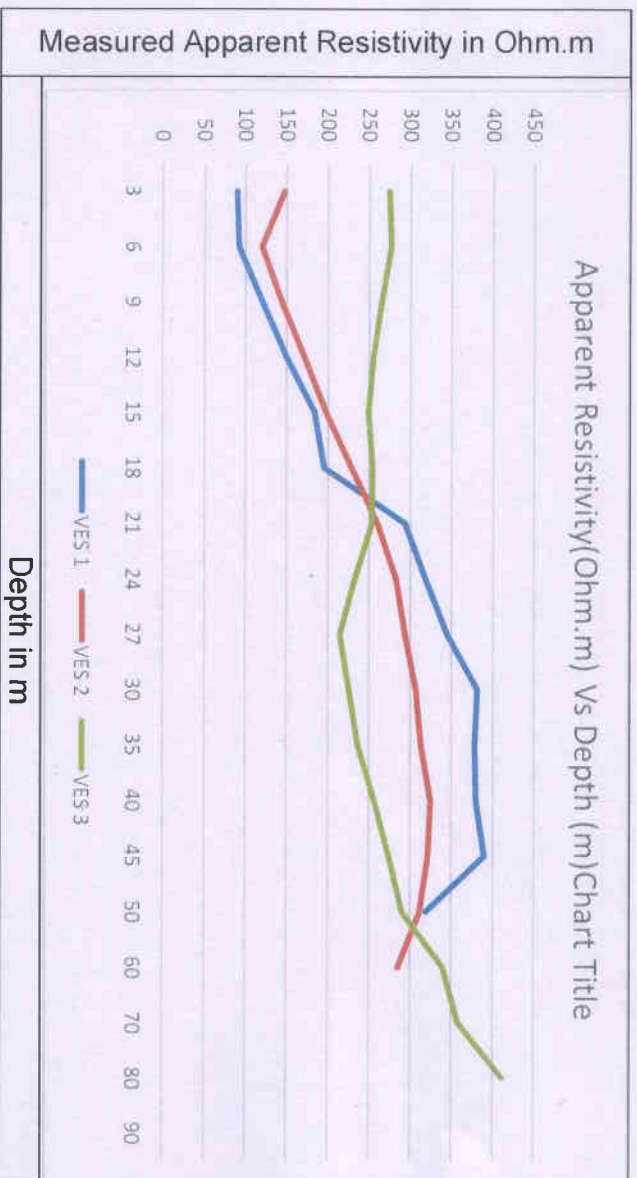


Dr. Amarjeet Kumar Singh
Qualified person

Table: 3 Resistivity's of some common rocks. (Keller and Frischknecht, 1966, Daniels and Alberty, 1966)

Material	Resistivity in Ohm.m
Granite	5×10^3 to 10^6
Basalt	10^2 to 10^6
Slate	6×10^3 to 4×10^7
Quartzite	10^2 to 2×10^8
Sandstone	8 to 4×10^3
Shale	20 to 2×10^3
Clay	1 to 100
Alluvium	10 to 800
Ground water (Fresh)	10 to 100

Figure 1 : Showing measured apparent resistivity vs depth in proposed site



Dr. Amarjeet Kumar Singh
Qualified person

Interpretations: A total of 3 No. VES has been conducted in Mouza Salboba, block Sikaripara of Dumka District. 1D- Resistivity estimating computer programmed was used in this survey to determine the appropriate resistivity values at this site. The interpreted results of VES show two to four geo-electrical layers.

Vertical Electrical Sounding (VES -1): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity varies from 90 ohm-m to 93 ohm-m and thickness approx. 4 m. The second layer resistivity varies from 293 ohm-m to 1485 ohm-m and thickness varies from 26 m indicating hard to very hard compact formation. It is Rajmahal formation, i.e. Basalt rock. The third layer resistivity varies from 151 ohm-m to 278 ohm-m indicating Semi weathered formation with a thickness of 10 m. The fourth layer varies from more than 1485 ohm-m to very high resistivity with thickness 40 to 60 m indicating very hard and compact rock formation. There is no weathered rocks and water saturated sub surface water bearing zones in this surveyed point (VES-1). Further preparation of litho log as mentioned in table 4 indicates a minimum resistivity of 90 to maximum of more than 1485-ohm m depicts very hard rock formations at greater depth

Table - 4: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Soil/Semi weathered Rocks	90 to 93	00 to 04
2	Hard Rocks	293 to 1485	4 to 30
3	Semi weathered rock	151 to 278	30 to 40
4	Very Hard Rocks	> 1485	40 to 60

Vertical Electrical Sounding (VES -2): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity varies from 102 ohm-m to 147 ohm-m and thickness approx. 4 m. The second layer resistivity varies from 232 ohm-m to 1443 ohm-m and thickness varies from 4 m to 33 m indicating hard to very hard compact formation. It is Rajmahal formation, i.e. Basalt rock. The third layer resistivity is 198 ohm-m indicating Semi weathered formation with a thickness of 7 m. The fourth layer varies from 247 ohm-m to high resistivity with thickness 40 to 60 m indicating very hard and compact rock formation. Further, there is no weathered/semi weathered rocks and water saturated sub surface water bearing zones in this surveyed point (VES-2). Further preparation of litho log as mentioned in table 5 indicates a minimum resistivity of 102 to maximum of more than 1443-ohm m depicts very hard rock formations at greater depth



Dr. Amarjeet Kumar Singh
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Table - 5: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Soil/Semi weathered Rock	102 to 147	00 to 04
2	Hard Rock	247 to 1443	3 to 33
3	Semi weathered rock	153 to 220	33 to 40
4	Hard Rock	> 1443	40 to 60

Vertical Electrical Sounding (VES -3): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity varies from 227 ohm-m to 285 ohm-m and thickness approx. 14 m indicating hard rock type. The second layer resistivity varies from 132 ohm-m to 150 ohm-m and thickness varies from 14 m to 18 m indicating semi weathered rocks. The third layer resistivity varies from 351 ohm-m to 2201 ohm-m indicating very hard and compact rock formation with a thickness of 22 m. It is Rajmahal formation, i.e. Basalt rock. Further, there is no weathered/semi weathered rocks and water saturated sub surface water bearing zones in this surveyed point (VES-1). Further preparation of litho log as mentioned in table 4 indicates a minimum resistivity of 227 to maximum of more than 2201-ohm m depicts very hard rock formations at greater depth

Table - 6: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Hard Rocks	227 to 285	00 to 14
2	Semi weathered rocks	132 to 150	14 to 18
3	Very Hard Rocks	351 to 2201	18 to 60

Further, the analysis of geo-electrical sounding data, indicates that there is no sub surface water bearing zones in this site and also an interpretation of results with standard resistivity of various rocks (Table-3) indicates that no top soil in this site while consolidated hard rock is encountered below 1 m depth with massive thickness at 1 m to 60 m depth. Based on this survey the water bearing aquifers are not found at a depth above 60 m depth in this site. As per mining plan drawings the maximum depth of mining will be above 42 m depth in this mine site, hence there is no effect of mining on underground water table. The mining will be done above the mentioned depth based on mining plan. The proposed stone mine site is suitable for stone mining activity.



Dr. Amarjeet Kumar Singh
Qualified person

GEO HYDROLOGICAL SURVEY REPORT

OR
M/s SHITALA STONE WORKS

Plot No. 933, 938, 939, 940, 941(P) & 942

Mouza - Chandangaria, Block - Sikaripara
District - Dumka, State - Jharkhand

USING

Instrument Model: SSR MP ATS

Method - Schlumberger Array

Project Proponent

M/s Shitala Stone Works

Part. Sri Sanjay Kumar Yadav

Village - Rampur Karara, PO- Sakarigali Ghat, District- Sahibganj, Jharkhand

Survey by

Dr. Amarjeet Kumar Singh

Consultant Hydro Geologist

At - Lal Bangla, PO - KG Ashram, District - Dhanbad, State - Jharkhand - 826109

Registered QP by Department of Mines and Geology, Govt. of Jharkhand

(Approved Hydro geologist by MADA, Railway and D W & S Dept, Govt. of Jharkhand)

Mob: 9431508228

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2024



GEO HYDROLOGICAL SURVEY REPORT

Introduction: On the receipt of request from **Shitala Stone Works/mine** of M/s Shitala Stone Works its part. Sri Sanjay Kumar Yadav, Village- Rampur Karara, PO- in Sakarigali Ghat, District- Sahibganj for conducting Geo hydrological testing/report including depth of aquifers based on Jharkhand Gazette (Extra Ordinary), Published on 02 March 2017, Schedule IV (XII) Regarding Geo Hydrological Survey Report ; three Vertical Electrical Soundings (VES) have been carried out in the proposed Saharpur Stone Mine site on Plot No 933, 938, 939, 940, 941(P) & 942 in Mouza Chandangaria, Block Sikaripara, District Dumka and state Jharkhand. The detailed Vertical Electrical Sounding (VES) locations (Table 1) & (Figure 1) and measured Apparent Resistivity Surveyed data in ohm m (Table 2) has been carried out on 29th August, 2024.

Geo Hydrologically, the area under investigation is characterized as hard & compact rock type. The availability of ground water would depend on the presence and extent of the weathered overburden, the presence of joints and fractures underlying bedrocks. In general, these types of rocks are poor source of ground water. This is mainly due to its less permeability and porosity. On literature survey and based on field investigation it was observed that Rajmahal formation of basaltic rock/stone and recent alluvium are common in this area. Therefore, on the request of applicant M/s Shitala Stone Works its part. Sri Sanjay Kumar Yadav, Village- Rampur Karara, PO- in Sakarigali Ghat, District- Sahibganj; an attempt has been made to delineate the sub surface and underlying bedrocks strata conditions using resistivity techniques.

Literature Review: Geophysical methods, especially Geo physical Electric Resistivity Survey techniques can give better solutions indirectly in locating ground water in unexplored hard rocky terrains. Despite some limitations, resistivity survey method is the most commonly used and feasible technique to explore ground water aquifers in recent years. Resistivity methods measure sub surface resistivity distribution from ground surface. This method is based on the electrical resistivity of the rock formations.

There are no fixed limits for resistivity of various rocks. Resistivity of rock formation vary over a wide range depending on the material, density, porosity pore size and shape, water contents and quality of water. (Table 3)

Four electrodes (2 currents and 2 potential electrodes) are in practice to get the resistivity of the different strata beneath the earth crust. To get the thickness and depth of aquifer (water bearing rocks) below ground level, vertical electrical sounding (VES) has been carried out. These measurements are normally made by passing electric current in to the ground through two metallic electrodes and measuring the resulting voltage difference at two potential electrodes. From these measurements, the true resistivity of the sub surface can be estimated. (Figure - 2)



GEO HYDROLOGICAL SURVEY REPORT

Table 1 : Location of VES points with GPS Coordinates on Shitala Stone Works in Dumka district.

S. No	Vertical Electrical Sounding (VES)	Latitudes & Longitudes
1	VES-1	N 24°10' 50.9" & E87°34'38.6"
2	VES- 2	N 24°10' 48.8" & E87°34'38.5"
3	VES-3	N 24°10' 49.0" & E87°34'40.3"

Geological setup of the area: Geologically, Dumka district (GSI) is represented by Chota nagpur Granite-Gneiss of Archaean age to Proterozoic and Eastern Ghat super Group of Archaean age, which are overlain by Gondwana Super Group, Raj mahal basaltic lava flows (Upper Jurassic to lower cretaceous age) with inter trappean beds and at places Laterites

The Chotanagpur Gneissic complex is largely represented lithological unit in the area and covers the major part of the district uninterruptedly. They form more or less gently undulating plains and high grounds pediments and buried pediments, seldom giving rise to small hillocks mounds. They are mostly biotite gneisses and granite gneisses and in general coarse grained with porphroblastic texture and traversed by pegmatite and quartz vein of various dimensions. It contains enclave of amphibolites and mica schists.

The precambrian formations/Gondwana formations are further overlapped by Rajmahal Traps consists of basaltic lava flows with sedimentary intertrappeans. The basaltic rocks are hard and fine to medium grained. Some of the lava flows are vesicular and cavities being filled by calcite and chalcedony. The non vesicular lava flows are hard, tough, compact and fine to medium grained in nature. The vesicular types are comparatively soft and break easily. They are greenish to dark in colour with number of flows not clearly delineated in this district. In general, the Rajmahal traps show vertical to horizontal joints trending E-W and N-S. Typical columnar joints are also common. These rocks are weathered with characteristic spherical exfoliation which gives rise to large rounded boulders as the out crops. It has been proved that basalts too are productive when either weathered or fractured.

Geologically the area of study lies within Rajmahal trap, which underlain by a wide range of geological formations ranging in age from Archaean to Recent. The common rock formation in this area is Basalt. Topographically area under investigation is uneven and undulating in nature. The high grounds are being separated between low grounds. A very thin soil cover is observed.



GEO HYDROLOGICAL SURVEY REPORT

Instrumentation & measurement techniques: Methodology includes detailed investigation carried out in field as well as laboratory for exploring, estimation and recommendation of suitable sites for stone explorations. Three Vertical Electrical Soundings (VES) in the proposed study area were carried out by using SSR-MP-ATS, instrument. Schlumberger configuration was used with maximum electrode spacing between the center of the electrode configuration and outer most current electrode (AB/2) equal to 90 meters. For interpretation of measured data computer-based software were used in the laboratory. The 1D- Resistivity estimating computer programmed was used in this survey to determine the appropriate resistivity values in the laboratory.

Results:

The perusal of Table No.-2 indicates that the results of measured apparent resistivity in the field. The apparent resistivity observed in this site is ranges from 123 - ohm m to 1194 – ohm m in VES-1, 116- ohm m to 739 – ohm m in VES-2 and 246 - ohm m to 760– ohm m in VES-3, respectively. The results as measured apparent resistivity ranges in ohm m are given in table 2 and the measured apparent resistivity vs depth graph is given in figure 1. The result of all surveyed points indicates, almost similar nature of resistivity graph from top to bottom, interpreted hard rock formations without any fracture zone.

Table: 2. showing results of Measured Apparent Resistivity in Ohm m

Depth (m)	Apparent Resistivity in (ohm. M)		
	VES-1	VES-2	VES-3
3	123	116	246
6	258	180	296
9	336	239	322
12	371	291	400
15	424	340	491
18	520	386	548
21	599	434	558
24	663	479	581
27	704	521	570
30	692	575	561
35	762	606	584
40	878	650	600
45	973	681	614
50	1072	714	619
60	1194	739	656
70	---	---	684
80	---	---	715
90	---	---	760

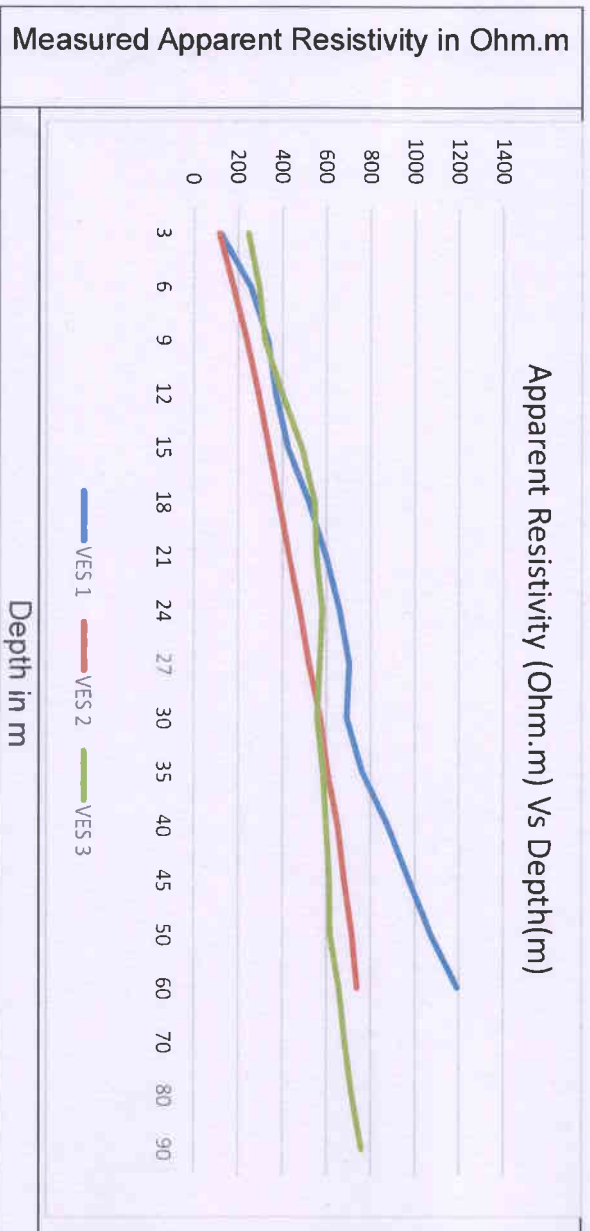


GEO HYDROLOGICAL SURVEY REPORT

Table: 3 Resistivity's of some common rocks. (Keller and Frischknecht, 1966, Daniels and Alberty, 1966)

Material	Resistivity in Ohm.m
Granite	5×10^3 to 10^6
Basalt	10^2 to 10^6
Slate	6×10^3 to 4×10^7
Quartzite	10^2 to 2×10^8
Sandstone	8 to 4×10^3
Shale	20 to 2×10^3
Clay	1 to 100
Alluvium	10 to 800
Ground water (Fresh)	10 to 100

Figure 1 : Showing measured apparent resistivity vs depth in proposed site



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Qualified person

GEO HYDROLOGICAL SURVEY REPORT

Interpretations: A total of 3 No VES has been conducted in Mouza Chandangaria, in block Sikaripara of Dumka District. 1D- Resistivity estimating computer programmed was used in this survey to determine the appropriate resistivity values at this site. The interpreted result of VES shows only two geo-electrical layers.

Vertical Electrical Sounding (VES -1): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity varies from 1 ohm-m to 123 ohm-m and thickness approx. 2 m. The second layer resistivity varies from 541 ohm-m to 6433 ohm-m and thickness varies from 2 m to 60 m indicating hard to very hard compact formation. It is Rajmahal formation, i.e. Basalt rock. There is no weathered rocks and water saturated sub surface water bearing zones in this surveyed point (VES-1). Further preparation of litho log as mentioned in table 4 indicates a minimum resistivity of 1123 to maximum of more than 6433-ohm m depicts very hard rock formations at greater depth

Table - 4: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Soil/Semi weathered Rock	1 to 123	00 to 02
2	Hard to very Hard Rock	541 to 6433	2 to 60

Vertical Electrical Sounding (VES -2): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity varies from 1 ohm-m to 116 ohm-m and thickness approx. 2 m. The second layer resistivity varies from 398-ohm-m to 7651-ohm-m and thickness varies from 2 m to 60 m indicating hard to very hard compact formation. It is Rajmahal formation, i.e. Basalt rock. Further, there is no weathered/semi weathered rocks and water saturated sub surface water bearing zones in this surveyed point (VES-2). Further preparation of litho log as mentioned in table 5 indicates a minimum resistivity of 116 to maximum of more than 7651-ohm m depicts very hard rock formations at greater depth

Table - 5: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Soil/Semi weathered Rocks	1 to 116	00 to 02
2	Hard to very Hard Rock	398 to 7651	2 to 60



GEO HYDROLOGICAL SURVEY REPORT

Vertical Electrical Sounding (VES -3): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity ranges 246 ohm-m and thickness approx. 2 m. The second layer resistivity varies from 246 ohm-m to 5504 ohm-m and thickness varies from 2 m to 60 m indicating very hard and compact rock formation with a thickness of 58 m. It is Rajmahal formation, i.e. Basalt rock. Further, there is no weathered/semi weathered rocks and water saturated sub surface water bearing zones in this surveyed point (VES-1). Further preparation of litho log as mentioned in table 6 indicates a minimum resistivity of 246 to maximum of more than 5504-ohm m depicts very hard rock formations at greater depth

Table - 6: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Semi weathered Rocks	246	00 to 02
2	Hard to very Hard Rock	246 to 5504	2 to 20

Further, the analysis of geo-electrical sounding data, indicates that there is no sub surface water bearing zones in this site and also an interpretation of results with standard resistivity of various rocks (Table-3) indicates that the top soil consisting of loose material has average thickness of approximately 2 m depth, while consolidated hard rock is encountered below 2 m depth with massive thickness at 2 m to 60 m depth. Based on this survey the water bearing aquifers are not found at a depth above 60 m depth in this site. As per mining plan drawings the maximum depth of mining will be above 36 m depth in this mine site, hence there is no effect of mining on underground water table. The mining will be done above the mentioned depth based on mining plan. The proposed stone mine site is suitable for stone mining activity.



Dr. Amarjeet Kumar Singh
Qualified person

GEO HYDROLOGICAL SURVEY REPORT
OF
GOSAIPAHARI STONE DEPOSIT

Khata No. 14, 22, 26 & 33

Plot Nos. – 268, 235, 236, 237, 238, 289, 290, 298, 287, 288, 266, 267, 269, 270, 271,
273, 276, 278, 279, 280, 282, 285, 286

Mouza – Gosaipahari, Block - Sikaripara
District – Dumka, State – Jharkhand

USING

Instrument Model: SSR MP ATS

Method - Schlumberger Array

Project Proponent

Karnika Mining Pvt Ltd

Director - Sri Manik Chand Maheshwari
Grand Street, District - Dumka, Jharkhand

Survey by

Dr. Amarjeet Kumar Singh

Consultant Hydro Geologist

At - Lal Bangla, PO - KG Ashram, District - Dhanbad, State - Jharkhand - 826109

Registered QP by Department of Mines and Geology, Govt. of Jharkhand

(Approved Hydro geologist by MADA, Railway and D W & S Dept, Govt. of Jharkhand)

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E- mail: amarjeet.dhanbad@gmail.com



GEO HYDROLOGICAL SURVEY REPORT

Introduction : On the receipt of request from **Gosaipahari Stone Deposit/mine** of Karnika Mining Pvt Ltd, its Director Sri Manik Chand Maheshwari, Dumka for conducting Geo hydrological testing/report including depth of aquifers based on **Jharkhand Gazette (Extra Ordinary), Published on 02 March 2017, Schedule IV (XII)**.
Regarding Geo Hydrological Survey Report ; three Vertical Electrical Soundings (VES) have been carried out in the proposed Stone Mine site on Plot No - 268, 235, 236, 237, 238, 289, 290, 298, 287, 288, 266, 267, 269, 270, 271, 273, 276, 278, 279, 280, 282, 285, 286; Mouza Gosaipahari, Block Sikaripara, District Dumka and state Jharkhand. The detailed Vertical Electrical Sounding (VES) locations (Table 1) & (Figure 1) and measured Apparent Resistivity Surveyed data in ohm m (Table 2) has been carried out on 26th August, 2024.

Geo Hydrologically, the area under investigation is characterized as hard & compact rock type. The availability of ground water would depend on the presence and extent of the weathered overburden, the presence of joints and fractures underlying bedrocks. In general, these types of rocks are poor source of ground water. This is mainly due to its less permeability and porosity. On literature survey and based on field investigation it was observed that Rajmahal formation of basaltic rock/stone and recent alluvium are common in this area. Therefore, on the request of applicant Karnika Mining Pvt Ltd, its Director Sri Manik Chand Maheshwari, Dumka Jharkhand; an attempt has been made to delineate the sub surface and underlying bedrocks strata conditions using resistivity techniques.

Literature Review: Geophysical methods, especially Geo physical Electric Resistivity Survey techniques can give better solutions indirectly in locating ground water in unexplored hard rocky terrains. Despite some limitations, resistivity survey method is the most commonly used and feasible technique to explore ground water aquifers in recent years. Resistivity methods measure sub surface resistivity distribution from ground surface. This method is based on the electrical resistivity of the rock formations.

There are no fixed limits for resistivity of various rocks. Resistivity of rock formation vary over a wide range depending on the material, density, porosity pore size and shape, water contents and quality of water. (Table 3)

Four electrodes (2 currents and 2 potential electrodes) are in practice to get the resistivity of the different strata beneath the earth crust. To get the thickness and depth of aquifer (water bearing rocks) below ground level, vertical electrical sounding (VES) has been carried out. These measurements are normally made by passing electric current in to the ground through two metallic electrodes and measuring the resulting voltage difference at two potential electrodes. From these measurements, the true resistivity of the sub surface can be estimated. (Figure - 2)



Table 1: Location of VES points with GPS Coordinates on Gosaipahari Stone Mine in Dumka district.

S. No	Vertical Electrical Sounding (VES)	Latitudes & Longitudes
1	VES-1	N 24°08' 10.3" & E87°34'13.0"
2	VES-2	N 24°08' 08.6" & E87°34'13.2"
3	VES-3	N 24°08' 9.4" & E87°34'16.1"

Geological setup of the area: Geologically, Dumka district (GSI) is represented by Chota nagpur Granite-Gneiss of Archaean age to Proterozoic and Eastern Ghat super Group of Archaean age, which are overlain by Gondwana Super Group, Raj mahal basaltic lava flows (Upper Jurassic to lower cretaceous age) with intertrappean beds and at places Laterites

The Chotanagpur Gneissic complex is largely represented lithological unit in the area and covers the major part of the district uninterrupted. They form more or less gently undulating plains and high grounds pediments and buried pediments, seldom giving rise to small hillocks mounds. They are mostly biotite gneisses and granite gneisses and in general coarse grained with porphyroblastic texture and traversed by pegmatite and quartz vein of various dimensions. It contains enclave of amphibolites and mica schists.

The precambrian formations/Gondwana formations are further overlapped by Rajmahal Traps consists of basaltic lava flows with sedimentary intertrappeans. The basaltic rocks are hard and fine to medium grained. Some of the lava flows are vesicular and cavities being filled by calcite and chalcedony. The non vesicular lava flows are hard, tough, compact and fine to medium grained in nature. The vesicular types are comparatively soft and break easily. They are greenish to dark in colour with number of flows not clearly delineated in this district. In general, the Rajmahal traps show vertical to horizontal joints trending E-W and N-S. Typical columnar joints are also common. These rocks are weathered with characteristic spherical exfoliation which gives rise to large rounded boulders as the out crops. It has been proved that basalts too are productive when either weathered or fractured.

Geologically the area of study lies within Rajmahal trap, which underlain by a wide range of geological formations ranging in age from Archaean to Recent. The common rock formation in this area is Basalt. Topographically area under investigation is uneven and undulating in nature. The high grounds are being separated between low grounds. A very thin soil cover is observed.



Dr. Amarjeet Kumar Singh
Qualified person

Instrumentation & measurement techniques: Methodology includes detailed investigation carried out in field as well as laboratory for exploring, estimation and recommendation of suitable sites for stone explorations. Three Vertical Electrical Soundings (VES) in the proposed study area were carried out by using SSR-MP-ATS, instrument. Schlumberger configuration was used with maximum electrode spacing between the center of the electrode configuration and outer most current electrode (AB/2) equal to 90 meters. For interpretation of measured data computer-based software were used in the laboratory. The 1D- Resistivity estimating computer programmed was used in this survey to determine the appropriate resistivity values in the laboratory.

Results:

The perusal of Table No.-2 indicates that the results of measured apparent resistivity in the field. The apparent resistivity observed in this site is ranges from 19 - ohm m to 195 – ohm m in VES-1, 12- ohm m to 171 – ohm m in VES-2 and 53 - ohm m to 277 – ohm m in VES-3, respectively. The results as measured apparent resistivity ranges in ohm m are given in table 2 and the measured apparent resistivity vs depth graph is given in figure 1. The result of all surveyed points indicates, almost similar nature of resistivity graph from top to bottom, interpreted hard rock formations without any fracture zone.

Table: 2. showing results of Measured Apparent Resistivity in Ohm m

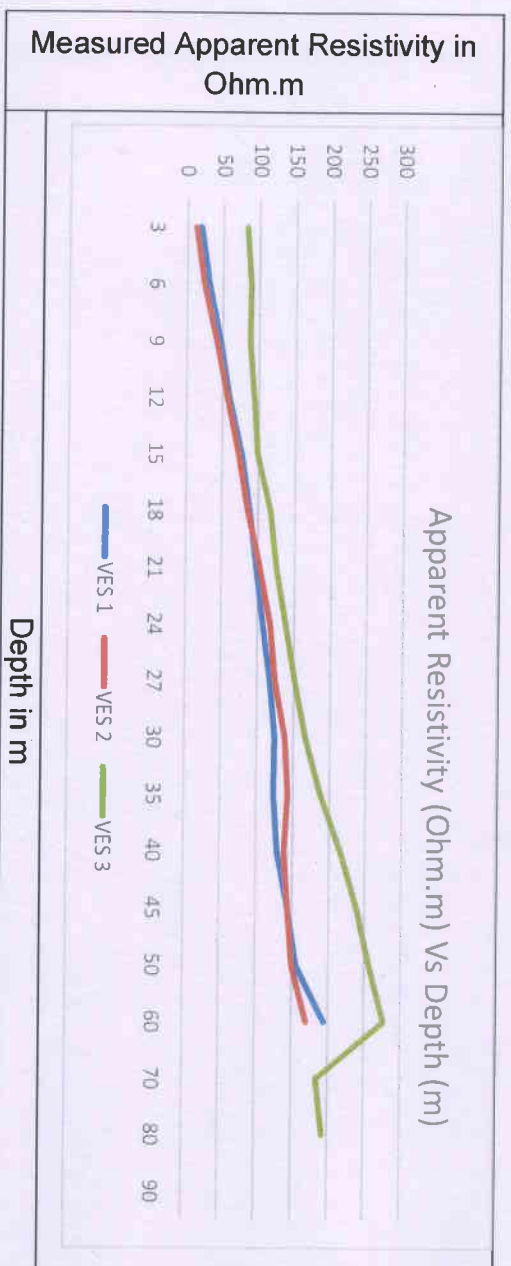
Depth (m)	Apparent Resistivity in (ohm. M)		
	VES-1	VES-2	VES-3
3	19	12	53
6	31	24	88
9	46	41	87
12	59	56	93
15	76	72	98
18	88	86	117
21	97	103	126
24	107	118	139
27	118	125	153
30	125	139	167
35	124	143	189
40	129	139	216
45	144	144	240
50	157	150	257
60	195	171	277
70	---	---	184
80	---	---	194
90	---	---	235



Table: 3 Resistivity's of some common rocks. (Keller and Frischknecht, 1966, Daniels and Alberty, 1966)

Material	Resistivity in Ohm.m
Granite	5×10^3 to 10^6
Basalt	10^2 to 10^6
Slate	6×10^3 to 4×10^7
Quartzite	10^2 to 2×10^8
Sandstone	8 to 4×10^3
Shale	20 to 2×10^3
Clay	1 to 100
Alluvium	10 to 800
Ground water (Fresh)	10 to 100

Figure 1: Showing measured apparent resistivity vs depth in proposed site



Interpretations: A total of 3 No VES has been conducted in Mouza Gosaipahari, in block Sikaripara of Dumka District. 1D- Resistivity estimating computer programmed was used in this survey to determine the appropriate resistivity values at this site. The interpreted result of VES shows only two geo-electrical layers.

Vertical Electrical Sounding (VES -1): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity varies from 19 ohm-m to 83 ohm-m and thickness approx. 2 m. The second layer resistivity ranges 1560 ohm-m and thickness of 2 m to 8 m indicating hard to very hard compact formation. It is Rajmahal formation, i.e. Basalt rock. Third layer resistivity ranges 18-ohm m interprets Semi weathered Rock. Fourth layer resistivity ranges 267 to 524 ohm.m interprets hard rock. Fifth layer is also a semi weathered zone and below that hard rock formation is found. There is no weathered rocks and water saturated sub surface water bearing zones in this surveyed point (VES-1). Further preparation of litho log as mentioned in table 4 indicates a minimum resistivity of 18 to maximum of more than 1735-ohm m depicts very hard rock formations at greater depth

Table - 4: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Soil/Semi weathered Rock	19 to 83	0 to 02
2	Hard to very Hard Rock	1560	2 to 8
3	Semi weathered Rock	18	8 to 10
4	Hard to very Hard Rock	267 to 524	10 to 20
5	Semi weathered Rock	117 to 181	20 to 26
6	Hard to very Hard Rock	727 to 1735	26 to 60

Vertical Electrical Sounding (VES -2): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity varies from 12 ohm-m and thickness approx. 2 m. The second layer resistivity ranges high ohm-m and thickness varies from 2 m to 20 m indicating hard to very hard compact formation. It is Rajmahal formation, i.e. Basalt rock. The third layer resistivity ranges 116-to-191-ohm m interprets Semi weathered Rocks and below that hard rock formation is found. Further, there is no weathered/semi weathered rocks and water saturated sub surface water bearing zones in this surveyed point (VES-2). Further preparation of litho log as mentioned in table 5 indicates a minimum resistivity of 12 to maximum of more than 558-ohm m depicts very hard rock formations at greater depth



Table - 5: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Soil/Semi weathered Rocks	12	00 to 02
2	Hard rock	High	2 to 20
3	Semi weathered Rocks	116 to 191	20 to 30
4	Hard Rock	242 to 558	30 to 60

Vertical Electrical Sounding (VES -3): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity ranges 53 ohm-m to 266 and thickness approx. 10 m, interprets soil with semi weathered rock. The second layer resistivity varies from 242 ohm-m to 9276 ohm-m and thickness varies from 10 m to 60 m indicating hard and compact rock formation with a thickness of 50 m. It is Rajmahal formation, i.e. Basalt rock. Further, there is no weathered/semi weathered rocks and water saturated sub surface water bearing zones in this surveyed point (VES-1). Further preparation of litho log as mentioned in table 6 indicates a minimum resistivity of 53 to maximum of more than 9276-ohm m depicts very hard rock formations at greater depth

Table - 6: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Semi weathered Rocks	53 to 266	00 to 10
2	Hard Rock	242 to 9276	10 to 60

Further, the analysis of geo-electrical sounding data, indicates that there is no sub surface water bearing zones in this site (Table-3). Based on this surveyed data the water bearing aquifers are not found at a depth of above 60 m depth in this site. As per mining plan drawings the maximum depth of mining will be above 42 m depth in this mine site, hence there is no effect of mining on underground water table. The mining will be done above the mentioned depth based on mining plan. The proposed stone mine site is suitable for stone mining activity.



GEO HYDROLOGICAL SURVEY REPORT

OF

KENDPAHARI STONE MINE

Plot Nos.- 917, 918, 919, 920, 921, 925

Khata No -28 & 43

Mouza - Kendpahari, Block - Sikaripara

District - Dumka, State - Jharkhand

USING

Instrument Model: SSR MP ATS

Method - Schlumberger Array

Project Proponent

Shree Shiljeet Kumar Singh

At - Khijuriya, Shastri Nager, District - Dumka, Jharkhand

Survey by

Dr. Amarjeet Kumar Singh

Consultant Hydro Geologist

At - Lal Bangla, PO - KG Ashram, District - Dhanbad, State - Jharkhand - 826109

Registered QP by Department of Mines and Geology, Govt. of Jharkhand

(Approved Hydro geologist by MADA, Railway and D W & S Dept, Govt. of Jharkhand)

Mob: 9431508228

E- mail: amarjeet.dhanbad@gmail.com

2024



GEO HYDROLOGICAL SURVEY REPORT

Introduction : On the receipt of request from Kendpahari Stone Deposit/mine of Shree Shiljeet Kumar Singh, resident of Khijuria, Shastri Nager, District- Dumka, Jharkhand, for conducting Geo hydrological testing/report including depth of aquifers based on Jharkhand Gazette (Extra Ordinary), Published on 02 March 2017, Schedule IV (XII) Regarding Geo Hydrological Survey Report ; three Vertical Electrical Soundings (VES) have been carried out in the proposed Stone Mine site on Plot No 917, 918, 919, 920, 921, 925, Khata No 28 & 43 in Mouza Kendpahari, Block Sikaripara, District Dumka and state Jharkhand. The detailed Vertical Electrical Sounding (VES) locations (Table 1) & (Figure 1) and measured Apparent Resistivity Surveyed data in ohm m (Table 2) has been carried out on 21st September, 2024.

Geo Hydrologically, the area under investigation is characterized as hard & compact rock type. The availability of ground water would depend on the presence and extent of the weathered overburden, the presence of joints and fractures underlying bedrocks. In general, these types of rocks are poor source of ground water. This is mainly due to its less permeability and porosity. On literature survey and based on field investigation it was observed that Rajmahal formation of basaltic rock/stone and recent alluvium are common in this area. Therefore, on the request of applicant Shree Shiljeet Kumar Singh, resident of Khijuria, Shastri Nager, District- Dumka, Jharkhand an attempt has been made to delineate the sub surface and underlying bedrocks strata conditions using resistivity techniques.

Literature Review: Geophysical methods, especially Geo physical Electric Resistivity Survey techniques can give better solutions indirectly in locating ground water in unexplored hard rocky terrains. Despite some limitations, resistivity survey method is the most commonly used and feasible technique to explore ground water aquifers in recent years. Resistivity methods measure sub surface resistivity distribution from ground surface. This method is based on the electrical resistivity of the rock formations.

There are no fixed limits for resistivity of various rocks. Resistivity of rock formation vary over a wide range depending on the material, density, porosity pore size and shape, water contents and quality of water. (Table 3)

Four electrodes (2 currents and 2 potential electrodes) are in practice to get the resistivity of the different strata beneath the earth crust. To get the thickness and depth of aquifer (water bearing rocks) below ground level, vertical electrical sounding (VES) has been carried out. These measurements are normally made by passing electric current in to the ground through two metallic electrodes and measuring the resulting voltage difference at two potential electrodes. From these measurements, the true resistivity of the sub surface can be estimated. (Figure - 2)



Table 1: Location of VES points with GPS Coordinates on Kendpahari Stone Deposit in Dumka district.

S. No	Vertical Electrical Sounding (VES)	Latitudes & Longitudes
1	VES-1	N 24°13' 16.4" & E87°37'08.4"
2	VES- 2	N 24°13' 14.6" & E87°37'06.4"
3	VES-3	N 24°13' 14.6" & E87°37'09.3"

Geological setup of the area: Geologically, Dumka district (GSI) is represented by Chota nagpur Granite-Gneiss of Archaean age to Proterozoic and Eastern Ghat super Group of Archaean age, which are overlain by Gondwana Super Group, Raj mahal basaltic lava flows (Upper Jurassic to lower cretaceous age) with inter trappan beds and at places Laterites

The Chotanagpur Gneissic complex is largely represented lithological unit in the area and covers the major part of the district uninterrupted. They form more or less gently undulating plains and high grounds pediments and buried pediments, seldom giving rise to small hillocks mounds. They are mostly biotite gneisses and granite gneisses and in general coarse grained with porphyroblastic texture and traversed by pegmatite and quartz vein of various dimensions. It contains enclave of amphibolites and mica schists.

The precambrian formations/Gondwana formations are further overlapped by Rajmahal Traps consists of basaltic lava flows with sedimentary inter trappeans. The basaltic rocks are hard and fine to medium grained. Some of the lava flows are vesicular and cavities being filled by calcite and chalcedony. The non vesicular lava flows are hard, tough, compact and fine to medium grained in nature. The vesicular types are comparatively soft and break easily. They are greenish to dark in colour with number of flows not clearly delineated in this district. In general, the Rajmahal traps show vertical to horizontal joints trending E-W and N-S. Typical columnar joints are also common. These rocks are weathered with characteristic spherical exfoliation which gives rise to large rounded boulders as the out crops. It has been proved that basalts too are productive when either weathered or fractured.

Geologically the area of study lies within Rajmahal trap, which underlain by a wide range of geological formations ranging in age from Archaean to Recent. The common rock formation in this area is Basalt. Topographically area under investigation is uneven and undulating in nature. The high grounds are being separated between low grounds. A very thin soil cover is observed.



Instrumentation & measurement techniques: Methodology includes detailed investigation carried out in field as well as laboratory for exploring, estimation and recommendation of suitable sites for stone explorations. Three Vertical Electrical Soundings (VES) in the proposed study area were carried out by using SSR-MP-ATS, instrument. Schlumberger configuration was used with maximum electrode spacing between the center of the electrode configuration and outer most current electrode (AB/2) equal to 90 meters. For interpretation of measured data computer-based software were used in the laboratory. The 1D- Resistivity estimating computer programme was used in this survey to determine the appropriate resistivity values in the laboratory.

Results:

The perusal of Table No.-2 indicates that the results of measured apparent resistivity in the field. The apparent resistivity observed in this site is ranges from 06 - ohm m to 54— ohm m in VES-1, 12- ohm m to 155 – ohm m in VES-2 and 06 - ohm m to 69 – ohm m in VES-3, respectively. The results as measured apparent resistivity ranges in ohm m are given in table 2 and the measured apparent resistivity vs depth graph is given in figure 1. The result of all surveyed points indicates, almost similar nature of resistivity graph from top to bottom, interpreted hard rock formations without any fracture zone.

Table: 2. showing results of Measured Apparent Resistivity in Ohm m

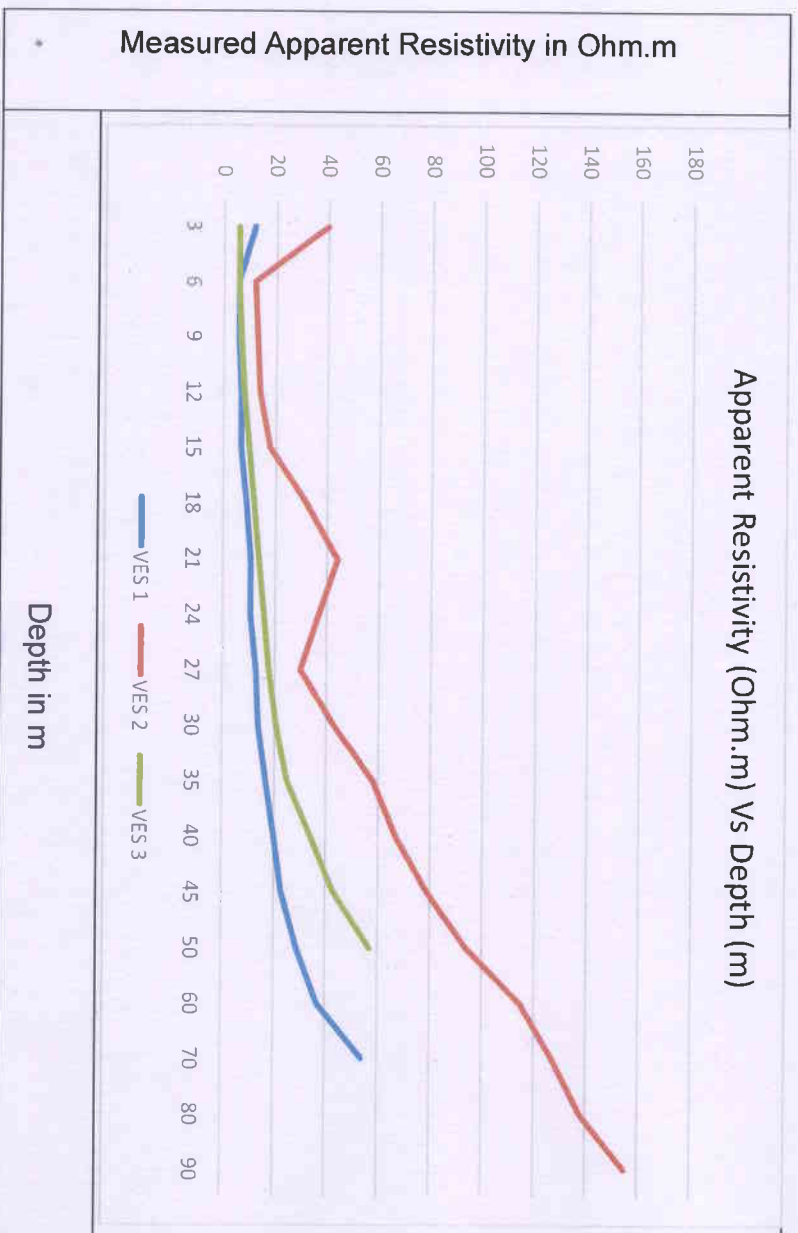
Depth (m)	Apparent Resistivity in (ohm. M)		
	VES-1	VES-2	VES-3
3	12	40	6
6	06	12	6
9	06	13	7
12	07	14	8
15	07	18	10
18	09	32	12
21	11	44	14
24	11	37	16
27	13	30	18
30	14	43	21
35	17	58	25
40	20	67	34
45	23	79	43
50	29	94	57
60	37	115	69
70	54	127	---
80	---	138	---
90	---	155	---



Table: 3 Resistivity's of some common rocks. (Keller and Frischknecht, 1966
Daniels and Alberty, 1966)

Material	Resistivity in Ohm.m
Granite	5×10^3 to 10^6
Basalt	10^2 to 10^6
Slate	6×10^3 to 4×10^7
Quartzite	10^2 to 2×10^8
Sandstone	8 to 4×10^3
Shale	20 to 2×10^3
Clay	1 to 100
Alluvium	10 to 800
Ground water (Fresh)	10 to 100

Figure 1: Showing measured apparent resistivity vs depth in proposed site



Interpretations: A total of 3 No. VES has been conducted in Mouza Pokhariya, in block Sikaripara of Dumka District. 1D- Resistivity estimating computer programmed was used in this survey to determine the appropriate resistivity values at this site. The interpreted result of VES shows only two geo-electrical layers.

Vertical Electrical Sounding (VES -1): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity varies from 04 ohm-m to 51 ohm-m and thickness approx. 14 m interprets semi weathered rock. The second layer resistivity varies from 142 ohm-m to 942 ohm-m and thickness varies from 14 m to 60 m indicating hard to compact rock formation. It is Rajmahal formation, i.e. Basalt rock. There is no weathered rocks and water saturated sub surface water bearing zones in this surveyed point (VES-1). Further preparation of litho log as mentioned in table 4 indicates a minimum resistivity of 04 to maximum of more than 942-ohm m depicts very hard rock formations at greater depth

Table - 4: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Soil/Semi weathered Rock	04 to 51	00 to 14
2	Hard to very Hard Rock	142 to 942	14 to 60

Vertical Electrical Sounding (VES -2): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity varies from 13 ohm-m to 19 ohm-m and thickness approx. 8 m. The second layer resistivity ranges 181 -ohm-m to 1002 ohm.m and thickness varies from 8 m to 60 m indicating hard to very hard compact formation. It is Rajmahal formation, i.e. Basalt rock. Further preparation of litho log as mentioned in table 5 indicates a minimum resistivity of 56 to maximum of high ohm m depicts very hard rock formations at greater depth

Table - 5: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Soil/Semi weathered Rocks	13 to 19	00 to 08
2	Hard Rock	181 to 1002	8 to 60



Vertical Electrical Sounding (VES -3): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity ranges 06 to 43 ohm-m and thickness approx. 10 m indicating semi weathered to weathered zone. The second layer resistivity ranges 468 to high ohm-m and thickness varies from 10 m to 60 m indicating hard and compact rock formation with a thickness of 40 m. It is Rajmahal formation, i.e. Basalt rock. Further, there is no weathered/semi weathered rocks and water saturated sub surface water bearing zones in this surveyed point (VES-3). Further preparation of litho log as mentioned in table 6 indicates a minimum resistivity of 06 to maximum of high depicts very hard rock formations at greater depth

Table - 6: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Semi weathered Rocks to weathered zone	06 to 43	00 to 10
2	Hard Rock	468 to High	10 to 60

Further, the analysis of geo-electrical sounding data, indicates that there are an average of 6 to 10 m thick soil/semi weathered rock formation and after that a hard & compact formation in this site on interpretation of results with standard resistivity of various rocks (Table-3). As per mining plan drawings the maximum depth of mining will be above 36 m depth in this mine site, hence there is no effect of mining on underground water table. The mining will be done above the mentioned depth based on mining plan. The proposed stone mine site is suitable for stone mining activity.



Dr. Amarjeet Kumar Singh
Qualified person

GEO HYDROLOGICAL SURVEY REPORT
OF

POKHARIA STONE DEPOSIT

Plot Nos. 1132, 1133, 1134, 1239, 1240
Khata No - 03, 05, 44

Mouza - Pokharia, Block - Sikaripara
District - Dumka, State - Jharkhand

USING

Instrument Model: SSR MP ATS
Method - Schlumberger Array

Project Proponent
M/s Himalaya Stone Syndicate
Prop. Mumtaz Ansari
Sikaripara, Dumka, Jharkhand

Survey by
Dr. Amarjeet Kumar Singh
Consultant Hydro Geologist

At - Lal Bangla, PO - KG Ashram, District - Dhanbad, State - Jharkhand - 826109
Registered QP by Department of Mines and Geology, Govt. of Jharkhand
(Approved Hydro geologist by MADA, Railway and D W & S Dept, Govt. of Jharkhand)
Mob: 9431508228

E- mail: amarjeet.dhanbad@gmail.com

2024



GEO HYDROLOGICAL SURVEY REPORT

Introduction : On the receipt of request from Pokharia Stone Deposit/mine of M/s Himalaya Stone Syndicate of Prop Mumtaz Ansari, resident of Sikaripara, District-Dumka, Jharkhand, for conducting Geo hydrological testing/report including depth of aquifers based on Jharkhand Gazette (Extra Ordinary), Published on 02 March 2017, Schedule IV (XII) Regarding Geo Hydrological Survey Report ; three Vertical Electrical Soundings (VES) have been carried out in the proposed Stone Mine site on Plot No 1132, 1133, 1134, 1239, 1240, Khata No 03, 05, 44 in Mouza Pokharia, Block Sikaripara, District Dumka and state Jharkhand. The detailed Vertical Electrical Sounding (VES) locations (Table 1) & (Figure 1) and measured Apparent Resistivity Surveyed data in ohm m (Table 2) has been carried out on 30th August, 2024.

Geo Hydrologically, the area under investigation is characterized as hard & compact rock type. The availability of ground water would depend on the presence and extent of the weathered overburden, the presence of joints and fractures underlying bedrocks. In general, these types of rocks are poor source of ground water. This is mainly due to its less permeability and porosity. On literature survey and based on field investigation it was observed that Rajmahal formation of basaltic rock/stone and recent alluvium are common in this area. Therefore, on the request of applicant M/s Himalaya Stone Syndicate of Prop Mumtaz Ansari, resident of Sikaripara, District-Dumka, Jharkhand; an attempt has been made to delineate the sub surface and underlying bedrocks strata conditions using resistivity techniques.

Literature Review: Geophysical methods, especially Geo physical Electric Resistivity Survey techniques can give better solutions indirectly in locating ground water in unexplored hard rocky terrains. Despite some limitations, resistivity survey method is the most commonly used and feasible technique to explore ground water aquifers in recent years. Resistivity methods measure sub surface resistivity distribution from ground surface. This method is based on the electrical resistivity of the rock formations.

There are no fixed limits for resistivity of various rocks. Resistivity of rock formation vary over a wide range depending on the material, density, porosity pore size and shape, water contents and quality of water. (Table 3)

Four electrodes (2 currents and 2 potential electrodes) are in practice to get the resistivity of the different strata beneath the earth crust. To get the thickness and depth of aquifer (water bearing rocks) below ground level, vertical electrical sounding (VES) has been carried out. These measurements are normally made by passing electric current in to the ground through two metallic electrodes and measuring the resulting voltage difference at two potential electrodes. From these measurements, the true resistivity of the sub surface can be estimated. (Figure - 2)



Table 1: Location of VES points with GPS Coordinates on Pokharia Stone Deposit in Dumka district.

S. No	Vertical Electrical Sounding (VES)	Latitudes & Longitudes
1	VES-1	N 24°11'.56.1" & E87°33'44.8"
2	VES-2	N 24°11'.58.2" & E87°33'48.7"
3	VES-3	N 24°11'.58.6" & E87°33'47.2"

Geological setup of the area: Geologically, Dumka district (GSI) is represented by Chota nagpur Granite-Gneiss of Archaean age to Proterozoic and Eastern Ghat super Group of Archaean age, which are overlain by Gondwana Super Group, Raj mahal basaltic lava flows (Upper Jurassic to lower cretaceous age) with inter trappan beds and at places Laterites

The Chotanagpur Gneissic complex is largely represented lithological unit in the area and covers the major part of the district uninterrupted. They form more or less gently undulating plains and high grounds pediments and buried pediments, seldom giving rise to small hillocks mounds. They are mostly biotite gneisses and granite gneisses and in general coarse grained with porphyroblastic texture and traversed by pegmatite and quartz vein of various dimensions. It contains enclaves of amphibolites and mica schists.

The precambrian formations/Gondwana formations are further overlapped by Rajmahal Traps consists of basaltic lava flows with sedimentary inter trappeans. The basaltic rocks are hard and fine to medium grained. Some of the lava flows are vesicular and cavities being filled by calcite and chalcedony. The non vesicular lava flows are hard, tough, compact and fine to medium grained in nature. The vesicular types are comparatively soft and break easily. They are greenish to dark in colour with number of flows not clearly delineated in this district. In general, the Rajmahal traps show vertical to horizontal joints trending E-W and N-S. Typical columnar joints are also common. These rocks are weathered with characteristic spherical exfoliation which gives rise to large rounded boulders as the out crops. It has been proved that basalts too are productive when either weathered or fractured.

Geologically the area of study lies within Rajmahal trap, which underlain by a wide range of geological formations ranging in age from Archaean to Recent. The common rock formation in this area is Basalt. Topographically area under investigation is uneven and undulating in nature. The high grounds are being separated between low grounds. A very thin soil cover is observed.



Instrumentation & measurement techniques: Methodology includes detailed investigation carried out in field as well as laboratory for exploring, estimation and recommendation of suitable sites for stone explorations. Three Vertical Electrical Soundings (VES) in the proposed study area were carried out by using SSR-MP-ATS, instrument. Schlumberger configuration was used with maximum electrode spacing between the center of the electrode configuration and outer most current electrode (AB/2) equal to 90 meters. For interpretation of measured data computer-based software were used in the laboratory. The 1D- Resistivity estimating computer programmed was used in this survey to determine the appropriate resistivity values in the laboratory.

Results:

The perusal of Table No.-2 indicates that the results of measured apparent resistivity in the field. The apparent resistivity observed in this site is ranges from 132 - ohm m to 412 – ohm m in VES-1, 65- ohm m to 534 – ohm m in VES-2 and 35 - ohm m to 214 – ohm m in VES-3, respectively. The results as measured apparent resistivity ranges in ohm m are given in table 2 and the measured apparent resistivity vs depth graph is given in figure 1. The result of all surveyed points indicates, almost similar nature of resistivity graph from top to bottom, interpreted hard rock formations without any fracture zone.

Table: 2. showing results of Measured Apparent Resistivity in Ohm m

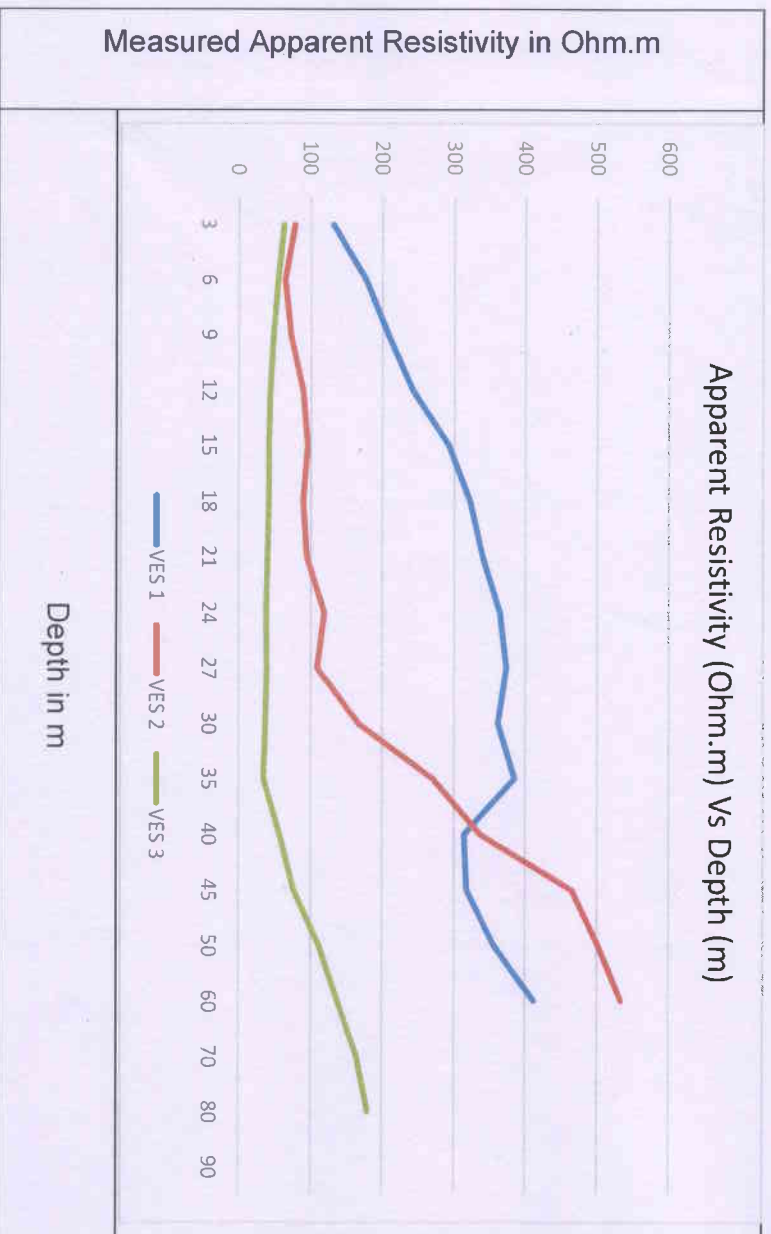
Depth (m)	Apparent Resistivity in (ohm. M)		
	VES-1	VES-2	VES-3
3	132	78	63
6	177	65	55
9	209	73	48
12	243	90	44
15	293	96	42
18	323	90	42
21	341	95	41
24	365	119	39
27	373	110	40
30	362	168	38
35	385	271	35
40	314	337	58
45	318	465	77
50	356	502	112
60	412	534	138
70	---	---	165
80	---	---	180
90	---	---	214



Table: 3 Resistivity's of some common rocks. (Keller and Frischknecht, 1966
Daniels and Alberty, 1966)

Material	Resistivity in Ohm.m
Granite	5×10^3 to 10^6
Basalt	10^2 to 10^6
Slate	6×10^3 to 4×10^7
Quartzite	10^2 to 2×10^8
Sandstone	8 to 4×10^3
Shale	20 to 2×10^3
Clay	1 to 100
Alluvium	10 to 800
Ground water (Fresh)	10 to 100

Figure 1: Showing measured apparent resistivity vs depth in proposed site



Dr. Amarjeet Kumar Singh
Qualified person

Interpretations: A total of 3 No. VES has been conducted in Mouza Pokhariya, in block Sikaripara of Dumka District. 1D- Resistivity estimating computer programmed was used in this survey to determine the appropriate resistivity values at this site. The interpreted result of VES shows only two geo-electrical layers.

Vertical Electrical Sounding (VES -1): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity varies from 1 ohm-m to 132 ohm-m and thickness approx. 2 m. The second layer resistivity varies from 270 ohm-m to 1723 ohm-m and thickness varies from 2 m to 60 m indicating hard to very hard compact formation. It is Rajmahal formation, i.e. Basalt rock. There is no weathered rocks and water saturated sub surface water bearing zones in this surveyed point (VES-1). Further preparation of litho log as mentioned in table 4 indicates a minimum resistivity of 132 to maximum of more than 1723-ohm m depicts very hard rock formations at greater depth

Table - 4: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Soil/Semi weathered Rock	1 to 132	00 to 02
2	Hard to very Hard Rock	270 to 1723	2 to 60

Vertical Electrical Sounding (VES -2): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity varies from 56 ohm-m to 97 ohm-m and thickness approx. 6 m. The second layer resistivity ranges 265-ohm-m and thickness varies from 6 m to 8 m indicating hard to very hard compact formation. The third layer resistivity ranges 67-ohm-m to 151-ohm.m and thickness varies from 8 m to 18 m indicating semi weathered rock to weathered water saturated rock. The fourth layer resistivity ranges high ohm.m and thickness ranges from 18 m to 60 m indicating hard & compact rock formation. It is Rajmahal formation, i.e. Basalt rock. Further preparation of litho log as mentioned in table 5 indicates a minimum resistivity of 56 to maximum of high ohm m depicts very hard rock formations at greater depth

Table - 5: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Soil/Semi weathered Rocks	56 to 97	00 to 06
2	Hard Rock	265	6 to 8
3	Semi weathered Rock to weathered water saturated zone	67 to 151	8 to 18
4	Hard Rock	High	18 to 60



Vertical Electrical Sounding (VES -3): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity ranges 22 to 63 ohm-m and thickness approx. 20 m indicating semi weathered to weathered zone. The second layer resistivity ranges high ohm-m and thickness varies from 20 m to 60 m indicating hard and compact rock formation with a thickness of 40 m. It is Rajmahal formation, i.e. Basalt rock. Further, there is no weathered/semi weathered rocks and water saturated sub surface water bearing zones in this surveyed point (VES-3). Further preparation of litho log as mentioned in table 6 indicates a minimum resistivity of 22 to maximum of high depicts very hard rock formations at greater depth

Table - 6: Zones identified with respect to resistivity ranges in ohm. m (Litholog)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Semi weathered Rocks to weathered zone	22 to 63	00 to 20
2	Hard Rock	High	20 to 60

Further, the analysis of geo-electrical sounding data, indicates that there are an average of 20 m thick soil/semi weathered rock formation and after that a hard & compact formation (VES- 2 & 3) in this site on interpretation of results with standard resistivity of various rocks (Table-3). Consolidated hard & compact rock is encountered below 2 m depth with massive thickness of 60 m depth in VES 1. As per mining plan drawings the maximum depth of mining will be above 42 m depth in this mine site, hence there is no effect of mining on underground water table. The mining will be done above the mentioned depth based on mining plan. The proposed stone mine site is suitable for stone mining activity.



Dr. Amarjeet Kumar Singh
Qualified person

GEO HYDROLOGICAL SURVEY REPORT
OR
RAMBANI STONE MINE

IB No. 12 & Dag Nos. 369(QP)

Mouza - Rambani, Block - Gopikander
District - Dumka, State - Jharkhand

USING

Instrument Model: SSR MP ATS

Method - Schlumberger Array

Project Proponent
Sri Depesh Kumar
Dumka, Jharkhand

Survey by
Dr. Amarjeet Kumar Singh
Consultant Hydro Geologist

At - Lal Bangla, PO - KG Ashram, District - Dhanbad, State - Jharkhand - 826109
Registered QP by Department of Mines and Geology, Govt of Jharkhand
(Approved Hydro geologist by MADA, Railway and D W & S Dept, Govt. of Jharkhand)

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GEO HYDROLOGICAL SURVEY REPORT

Introduction : On the receipt of request from **Rambani Stone Works/mine** of Sri Deepesh Kumar, Dumka, Jharkhand for conducting Geo hydrological testing/report including depth of aquifers based on Jharkhand Gazette (Extra Ordinary), Published on 02 March 2017, Schedule IV (XII) Regarding Geo Hydrological Survey Report ; three Vertical Electrical Soundings (VES) have been carried out in the proposed Stone Mine site on Dag No 369 (P) and J B No -12 in Mouza Rambani, Block Gopikander, District Dumka and state Jharkhand (Photo-1). The detailed Vertical Electrical Sounding (VES) locations (Table 1) & (Figure 1) and measured Apparent Resistivity Surveyed data in ohm m (Table 2) has been carried out on 25th August, 2024.

Geo Hydrologically, the area under investigation is characterized as hard & compact rock type. The availability of ground water would depend on the presence and extent of the weathered overburden, the presence of joints and fractures underlying bedrocks. In general, these types of rocks are poor source of ground water. This is mainly due to its less permeability and porosity. On literature survey and based on field investigation it was observed that Rajmahal formation of basaltic rock/stone and recent alluvium are common in this area. Therefore, on the request of applicant Sri Santosh Yadav S/o Sri Prayag Yadav, Village Char mil, PO Devchanda in District Hazaribag Jharkhand; an attempt has been made to delineate the sub surface and underlying bedrocks strata conditions using resistivity techniques.

Literature Review: Geophysical methods, especially Geo physical Electric Resistivity Survey techniques can give better solutions indirectly in locating ground water in unexplored hard rocky terrains. Despite some limitations, resistivity survey method is the most commonly used and feasible technique to explore ground water aquifers in recent years. Resistivity methods measure sub surface resistivity distribution from ground surface. This method is based on the electrical resistivity of the rock formations.

There are no fixed limits for resistivity of various rocks. Resistivity of rock formation vary over a wide range depending on the material, density, porosity pore size and shape, water contents and quality of water. (Table 3)

Four electrodes (2 currents and 2 potential electrodes) are in practice to get the resistivity of the different strata beneath the earth crust. To get the thickness and depth of aquifer (water bearing rocks) below ground level, vertical electrical sounding (VES) has been carried out. These measurements are normally made by passing electric current in to the ground through two metallic electrodes and measuring the resulting voltage difference at two potential electrodes. From these measurements, the true resistivity of the sub surface can be estimated. (Figure - 2)



Table 1: Location of VES points with GPS Coordinates on Rambani Stone Mine in Dumka district.

S. No	Vertical Electrical Sounding (VES)	Latitudes & Longitudes
1	VES-1	N 24°26' 58.2" & E87°31'47.2"
2	VES-2	N 24°26' 56.3" & E87°31'44.8"
3	VES-3	N 24°26' 57.7" & E87°31'43.8"

Geological setup of the area: Geologically, Dumka district (GSI) is represented by Chota nagpur Granite-Gneiss of Archaean age to Proterozoic and Eastern Ghat super Group of Archaean age, which are overlain by Gondwana Super Group, Raj mahal basaltic lava flows (Upper Jurassic to lower cretaceous age) with intertrappean beds and at places Laterites

The Chotanagpur Gneissic complex is largely represented lithological unit in the area and covers the major part of the district uninterrupted. They form more or less gently undulating plains and high grounds pediments and buried pediments, seldom giving rise to small hillocks mounds. They are mostly biotite gneisses and granite gneisses and in general coarse grained with porphyroblastic texture and traversed by pegmatite and quartz vein of various dimensions. It contains enclave of amphibolites and mica schists.

The precambrian formations/Gondwana formations are further overlapped by Rajmahal Traps consists of basaltic lava flows with sedimentary intertrappeans. The basaltic rocks are hard and fine to medium grained. Some of the lava flows are vesicular and cavities being filled by calcite and chalcedony. The non vesicular lava flows are hard, tough, compact and fine to medium grained in nature. The vesicular types are comparatively soft and break easily. They are greenish to dark in colour with number of flows not clearly delineated in this district. In general, the Rajmahal traps show vertical to horizontal joints trending E-W and N-S. Typical columnar joints are also common. These rocks are weathered with characteristic spherical exfoliation which gives rise to large rounded boulders as the out crops. It has been proved that basalts too are productive when either weathered or fractured.

Geologically the area of study lies within Rajmahal trap, which underlain by a wide range of geological formations ranging in age from Archaean to Recent. The common rock formation in this area is Basalt. Topographically area under investigation is uneven and undulating in nature. The high grounds are being separated between low grounds. A very thin soil cover is observed.



Dr. Amarjeet Kumar Singh
Qualified person

Instrumentation & measurement techniques: Methodology includes detailed investigation carried out in field as well as laboratory for exploring, estimation and recommendation of suitable sites for stone explorations. Three Vertical Electrical Soundings (VES) in the proposed study area were carried out by using SSR-MP-ATS, instrument. Schlumberger configuration was used with maximum electrode spacing between the center of the electrode configuration and outer most current electrode (AB/2) equal to 90 meters. For interpretation of measured data computer-based software were used in the laboratory. The 1D- Resistivity estimating computer programmed was used in this survey to determine the appropriate resistivity values in the laboratory.

Results:

The perusal of Table No.-2 indicates that the results of measured apparent resistivity in the field. The apparent resistivity observed in this site is ranges from 129 - ohm m to 614- ohm m in VES-1, 272- ohm m to 485 - ohm m in VES-2 and 105- ohm m to 452 - ohm m in VES-3, respectively. The results as measured apparent resistivity ranges in ohm m are given in table 2 and the measured apparent resistivity vs depth graph is given in figure 1. The result of all surveyed points indicates, almost similar nature of resistivity graph from top to bottom, interpreted hard rock formations without any fracture zone.

Table: 2. showing results of Measured Apparent Resistivity in Ohm m

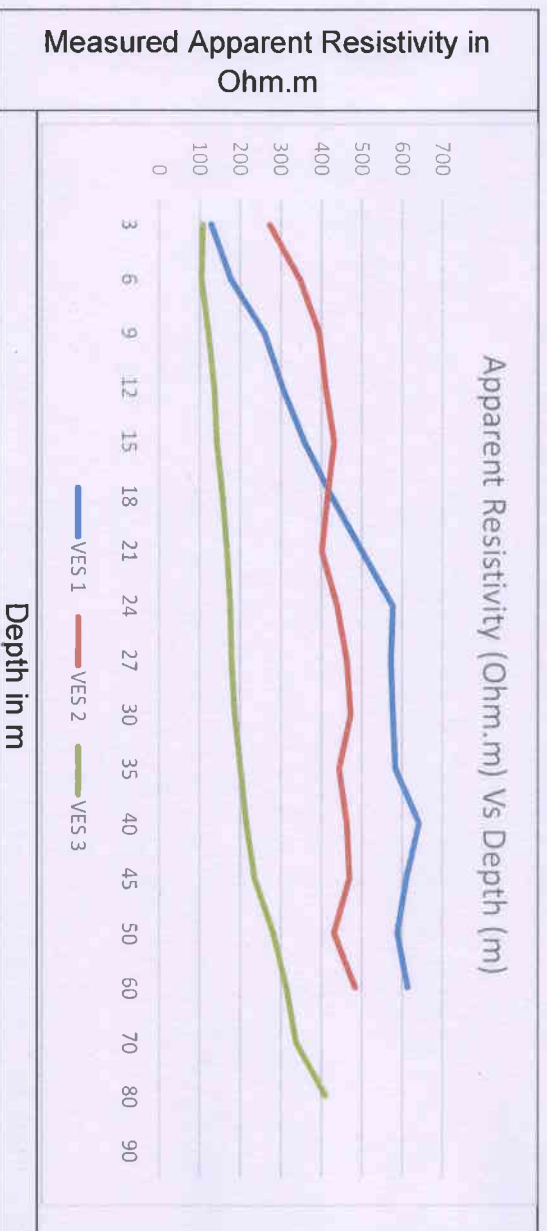
Depth (m)	Apparent Resistivity in (ohm. M)		
	VES-1	VES-2	VES-3
3	129	272	108
6	177	348	105
9	259	395	122
12	305	412	136
15	359	431	142
18	425	416	158
21	502	403	168
24	577	440	176
27	573	465	179
30	578	474	188
35	584	445	201
40	642	463	216
45	610	471	235
50	588	431	282
60	614	485	315
70	---	---	340
80	---	---	412
90	---	---	452



Table: 3 Resistivity's of some common rocks. (Keller and Frischknecht, 1966, Daniels and Alberty, 1966)

Material	Resistivity in Ohm.m
Granite	5×10^3 to 10^6
Basalt	10^2 to 10^6
Slate	6×10^3 to 4×10^7
Quartzite	10^2 to 2×10^8
Sandstone	8 to 4×10^3
Shale	20 to 2×10^3
Clay	1 to 100
Alluvium	10 to 800
Ground water (Fresh)	10 to 100

Figure 1: Showing measured apparent resistivity vs depth in proposed site



Interpretations: A total of 3 No. VES has been conducted in Mouza Rambani, in block Gopikander of Dumka District. 1D- Resistivity estimating computer programmed was used in this survey to determine the appropriate resistivity values at this site. The interpreted result of VES, shows only two geo-electrical layers.

Vertical Electrical Sounding (VES -1): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity varies from 1 ohm-m to 129 ohm-m and thickness approx. 2 m. The second layer resistivity varies from 282 ohm-m to 5398 ohm-m and thickness varies from 2 m to 60 m indicating hard to very hard compact formation. It is Rajmahal formation, i.e. Basalt rock. There is no weathered rocks and water saturated sub surface water bearing zones in this surveyed point (VES-1). Further preparation of litho log as mentioned in table 4 indicates a minimum resistivity of 129 to maximum of more than 5398-ohm m depicts very hard rock formations at greater depth

Table - 4: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Soil/Semi weathered Rock	1 to 129	00 to 02
2	Hard to very Hard Rock	282 to 5398	2 to 60

Vertical Electrical Sounding (VES -2): Analysis of geo-electrical sounding data with standard values of some rock as mentioned in table - 3, the only one rock/formation with resistivity varies from 246 ohm-m to 1199 ohm-m and thickness approx. 60 m. indicating hard to very hard compact formation is found. It is Rajmahal formation, i.e. Basalt rock. Further, there is no weathered/semi weathered rocks and water saturated sub surface water bearing zones in this surveyed point (VES-2). Further preparation of litho log as mentioned in table 5 indicates a minimum resistivity of 246 to maximum of more than 1199-ohm m depicts very hard rock formations at greater depth

Table - 5: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Hard to very Hard Rock	246 to 1199	01 to 60



Vertical Electrical Sounding (VES -3): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity ranges 103 to 179 ohm-m and thickness approx. 6 m. The second layer resistivity varies from 209 ohm-m to high and thickness varies from 6 m to 60 m indicating very hard and compact rock formation with a thickness of 52 m. It is Rajmahal formation, i.e. Basalt rock. Further, there is no weathered/semi weathered rocks and water saturated sub surface water bearing zones in this surveyed point (VES-1). Further preparation of litho log as mentioned in table 6 indicates a minimum resistivity of 103 to maximum of high depicts very hard rock formations at greater depth

Table - 6: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Semi weathered Rocks	103 to 179	00 to 06
2	Hard to very Hard Rock	209 to High	2 to 20

Further, the analysis of geo-electrical sounding data, indicates that there is no sub surface water bearing zones in this site and also an interpretation of results with standard resistivity of various rocks (Table-3) indicates that the top soil consisting of loose material has average thickness of approximately 2 m depth, while consolidated hard rock is encountered below 2 m depth with massive thickness at 2 m to 60 m depth. Based on this survey the water bearing aquifers are not found at a depth above 60 m depth in this site. As per mining plan drawings the maximum depth of mining will be above 36 m depth in this mine site, hence there is no effect of mining on underground water table. The mining will be done above the mentioned depth based on mining plan. The proposed stone mine site is suitable for stone mining activity.



Dr. Amarjeet Kumar Singh
Qualified person

GEO HYDROLOGICAL SURVEY REPORT
OF
SHUILIBONA STONE DEPOSIT

Mouza – Shuilibona, Block - Gopikander
District - Dumka, State – Jharkhand

Khata No – 15, 05, 19 & 06
Plot No – 345, 346, 347, 348 & 349

USING

Instrument Model: SSR MP ATS
Method - Schlumberger Array

Project Proponent
M/s Ganesh Stone Works
Prop. Sri Manak Chand Maheshwari
Sayal Road, District- Dumka, Jharkhand

Survey by

Dr. Amarjeet Kumar Singh

Consultant Hydro Geologist

At - Lal Bangla, PO - KG Ashram, District - Dhanbad, State - Jharkhand - 826109
Registered QP by Department of Mines and Geology, Govt. of Jharkhand
(Approved Hydro geologist by MADA, Railway and D W & S Dept, Govt. of Jharkhand)

Mob: 9431508228

E- mail: amarjeet.dhanbad@gmail.com

2024



GEO HYDROLOGICAL SURVEY REPORT

Introduction : On the receipt of request from **Shiulibona Stone Deposit** of partner Sri Manak Chand Maheshwari, Sayal road in District- Dumka for conducting Geo hydrological testing/report including depth of aquifers based on Jharkhand Gazette (Extra Ordinary), Published on 02 March 2017, Schedule IV (XII) Regarding Geo Hydrological Survey Report ; three Vertical Electrical Soundings (VES) have been carried out in the proposed Shiulibona Stone deposit site on Plot No – 345, 236, 347, 348 & 349 and Khata No 15, 05, 19 & 06 in Mouza Shiulibona, Block Sikaripara, District Dumka and state Jharkhand. The detailed Vertical Electrical Sounding (VES) locations (Table 1) & (Figure 1) and measured Apparent Resistivity Surveyed data in ohm m (Table 2) has been carried out on 26th August, 2024.

Geo Hydrologically, the area under investigation is characterized as hard & compact rock type. The availability of ground water would depend on the presence and extent of the weathered overburden, the presence of joints and fractures underlying bedrocks. In general, these types of rocks are poor source of ground water. This is mainly due to its less permeability and porosity. On literature survey and based on field investigation it was observed that Rajmahal formation of basaltic rock/stone and recent alluvium are common in this area. Therefore, on the request of applicant partners Sri Arun Kumar Sah S/o late Balgovind Sah, Village & PO - Sikaripara in District- Dumka and Lal Babu Ansari S/o Yasin Ansari, village Dhokopara, PO – Nimdaspur, District- Birbhum, (W.B); an attempt has been made to delineate the sub surface and underlying bedrocks strata conditions using resistivity techniques.

Literature Review: Geophysical methods, especially Geo physical Electric Resistivity Survey techniques can give better solutions indirectly in locating ground water in unexplored hard rocky terrains. Despite some limitations, resistivity survey method is the most commonly used and feasible technique to explore ground water aquifers in recent years. Resistivity methods measure sub surface resistivity distribution from ground surface. This method is based on the electrical resistivity of the rock formations.

There are no fixed limits for resistivity of various rocks. Resistivity of rock formation vary over a wide range depending on the material, density, porosity pore size and shape, water contents and quality of water. (Table 3)

Four electrodes (2 currents and 2 potential electrodes) are in practice to get the resistivity of the different strata beneath the earth crust. To get the thickness and depth of aquifer (water bearing rocks) below ground level, vertical electrical sounding (VES) has been carried out. These measurements are normally made by passing electric current in to the ground through two metallic electrodes and measuring the resulting voltage difference at two potential electrodes. From these measurements, the true resistivity of the sub surface can be estimated. (Figure - 2)



Table 1: Location of VES points with GPS Coordinates on Shuilibona Stone Mine in Dumka district.

S. No	Vertical Electrical Sounding (VES)	Latitudes & Longitudes
1	VES-1	N 24°08' 33.3" & E87°34'22.0"
2	VES-2	N 24°08' 34.4" & E87°34'25.8"
3	VES-3	N 24°08' 32.8" & E87°34'27.8"

Geological setup of the area: Geologically, Dumka district (GSI) is represented by Chota nagpur Granite-Gneiss of Archaean age to Proterozoic and Eastern Ghat super Group of Archaean age, which are overlain by Gondwana Super Group, Raj mahal basaltic lava flows (Upper Jurassic to lower cretaceous age) with inter trappan beds and at places Laterites

The Chotanagpur Gneissic complex is largely represented lithological unit in the area and covers the major part of the district uninterruptedly. They form more or less gently undulating plains and high grounds pediments and buried pediments, seldom giving rise to small hillocks mounds. They are mostly biotite gneisses and granite gneisses and in general coarse grained with porphyroblastic texture and traversed by pegmatite and quartz vein of various dimensions. It contains enclave of amphibolites and mica schists.

The precambrian formations/Gondwana formations are further overlapped by Rajmahal Traps consists of basaltic lava flows with sedimentary intertrappeans. The basaltic rocks are hard and fine to medium grained. Some of the lava flows are vesicular and cavities being filled by calcite and chalcedony. The non vesicular lava flows are hard, tough, compact and fine to medium grained in nature. The vesicular types are comparatively soft and break easily. They are greenish to dark in colour with number of flows not clearly delineated in this district. In general, the Rajmahal traps show vertical to horizontal joints trending E-W and N-S. Typical columnar joints are also common. These rocks are weathered with characteristic spherical exfoliation which gives rise to large rounded boulders as the out crops. It has been proved that basalts too are productive when either weathered or fractured.

Geologically the area of study lies within Rajmahal trap, which underlain by a wide range of geological formations ranging in age from Archaean to Recent. The common rock formation in this area is Basalt. Topographically area under investigation is uneven and undulating in nature. The high grounds are being separated between low grounds. A very thin soil cover is observed.



Dr. Amarjeet Kumar Singh
Qualified person

Instrumentation & measurement techniques: Methodology includes detailed investigation carried out in field as well as laboratory for exploring, estimation and recommendation of suitable sites for stone explorations. Three Vertical Electrical Soundings (VES) in the proposed study area were carried out by using SSR-MP-ATS, instrument. Schlumberger configuration was used with maximum electrode spacing between the center of the electrode configuration and outer most current electrode (AB/2) equal to 90 meters. For interpretation of measured data computer based software were used in the laboratory. The 1D- Resistivity estimating computer programme was used in this survey to determine the appropriate resistivity values in the laboratory.

Results:

The perusal of Table No.-2 indicates that the results of measured apparent resistivity in the field. The apparent resistivity observed in this site is ranges from 49 - ohm m to 477 – ohm m in VES-1, 90- ohm m to 196 – ohm m in VES-2 and 2 3 - ohm m to 446 – ohm m in VES-3, respectively. The results as measured apparent resistivity ranges in ohm m are given in table 2 and the measured apparent resistivity vs depth graph is given in figure 1. The result of all surveyed points indicates, almost similar nature of resistivity graph from top to bottom, interpreted hard rock formations without any fracture zone.

Table: 2. showing results of Measured Apparent Resistivity in Ohm m

Depth (m)	Apparent Resistivity in (ohm. M)		
	VES-1	VES-2	VES-3
3	53	110	68
6	49	90	37
9	77	108	44
12	103	123	54
15	141	110	68
18	293	92	83
21	266	103	101
24	258	114	109
27	156	127	126
30	255	115	146
35	282	105	165
40	346	113	175
45	388	128	196
50	425	152	226
60	477	196	237
70	---	---	296
80	---	---	313
90	---	---	446

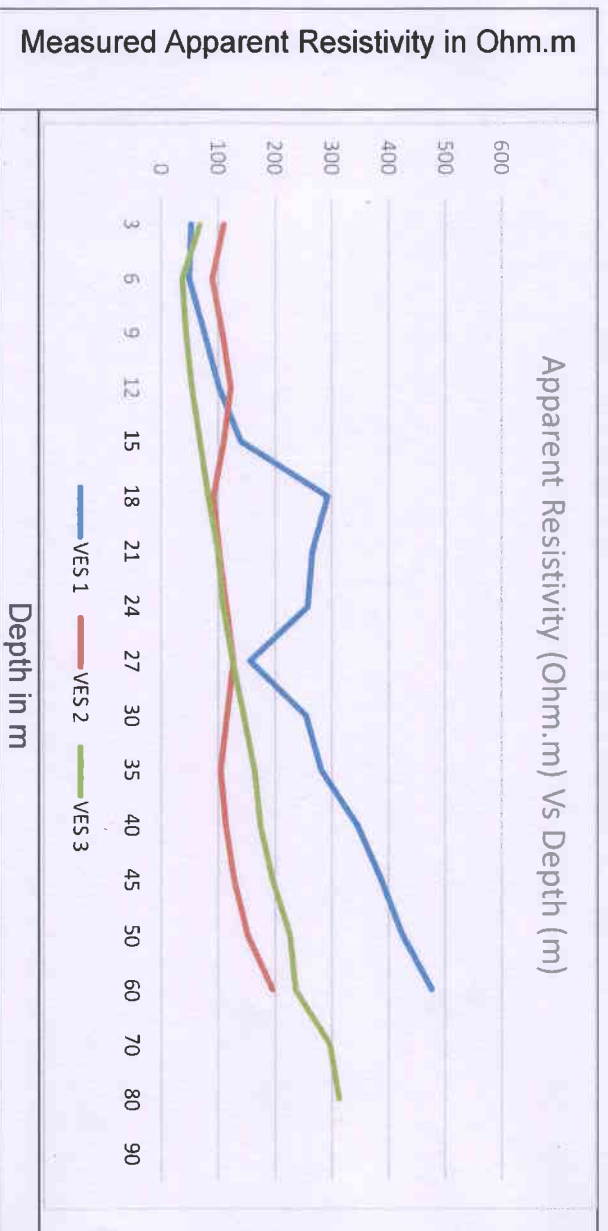


Dr. Amarjeet Kumar Singh
Qualified person

Table: 3 Resistivity's of some common rocks. (Keller and Frischknecht, 1966, Daniels and Alberty, 1966)

Material	Resistivity in Ohm.m
Granite	5×10^3 to 10^6
Basalt	10^2 to 10^6
Slate	6×10^3 to 4×10^7
Quartzite	10^2 to 2×10^8
Sandstone	8 to 4×10^3
Shale	20 to 2×10^3
Clay	1 to 100
Alluvium	10 to 800
Ground water (Fresh)	10 to 100

Figure 1 : Showing measured apparent resistivity vs depth in proposed site



Interpretations: A total of 3 No VES has been conducted in Mouza Saharpur, block Sikaripara of Dumka District. 1D- Resistivity estimating computer programmed was used in this survey to determine the appropriate resistivity values at this site. The interpreted results of VES show two to three geo-electrical layers.

Vertical Electrical Sounding (VES -1): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity varies from 47 ohm-m to 53 ohm-m and thickness approx. 4 m. The second layer resistivity is high and thickness varies from 4 m to 12 m indicating hard Rocks. The third layer resistivity varies from 173 ohm-m to 212 ohm-m indicating semi weathered layer. It is Rajmahal formation, i.e. Basalt rock. The fourth layer resistivity is only 37 depicts water saturated zone with a thickness of 2 m. Fifth layer is very hard formation and thickness of approx. 42 m. Further preparation of litho log as mentioned in table 4 indicates a minimum resistivity of 37 to maximum of high depicts very hard rock formations at greater depth

Table - 4: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Soil	47 to 53	00 to 04
2	Hard Rocks	High	04 to 12
3	Semi weathered Rocks	173 to 212	12 to 16
4	Weathered Water saturated rock	37	16 to 18
2	Very Hard Rocks	High	18 to 60

Vertical Electrical Sounding (VES -2): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity varies from 73 ohm-m to 89 ohm-m and thickness approx. 4 m. The second layer resistivity varies from 207 ohm-m to 688 ohm-m and thickness varies from 4 m to 18 m indicating hard to very hard compact formation. It is Rajmahal formation, i.e. Basalt rock. The third layer resistivity varies from 170 ohm-m to 200 ohm-m indicating Semi weathered formation with a thickness of 4 m. The fourth layer resistivity is very high with thickness 4 m indicating very hard and compact rock formation. The fifth layer resistivity varies from 90 ohm-m to 123 ohm-m indicating semi weathered formation with weathered water saturated zone with a thickness of 6m and further sixth layer resistivity is very high indicating hard to very hard compact formation. Further preparation of litho log as mentioned in table 5 indicates a minimum resistivity of 73 to maximum of more than 688-ohm m depicts very hard rock formations at greater depth



Table - 5: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Soil/Semi weathered Rocks	76 to 110	00 to 04
2	Hard Rocks	182 to 226	04 to 8
3	weathered water saturated rocks	52 to 73	8 to 12
4	Hard Rocks	330 to 2106	12 to 18
5	weathered water saturated rocks	63 to 68	18 to 23
6	Very Hard Rock	High	23 to 60

Vertical Electrical Sounding (VES -3): Analysis of geo-electrical sounding data with standard values of some rocks as mentioned in table - 3, the top layer resistivity varies from 25 ohm-m to 69 ohm-m and thickness approx. 6 m. The second layer resistivity is high and thickness varies from 6 to 8 m indicating semi weathered rock. The third layer resistivity varies from 314 ohm-m to 5392 ohm-m indicating hard rock with a thickness of 52 m. It is Rajmahal formation, i.e. Basalt rock. Further preparation of litho log as mentioned in table 6 indicates a minimum resistivity of 25 to maximum of 5392 depicts very hard rock formations at greater depth

Table - 6: Zones identified with respect to resistivity ranges in ohm. m (Lithology)

S No	Content	Resistivity Ranges (Ohm .m)	Depth Range (m)
1	Soil/Semi weathered Rocks/weathered rock	25 to 69	00 to 06
2	Semi weathered rocks	186	6 to 8
3	Hard Rocks	314 to 5392	8 to 60

Further, the analysis of geo-electrical sounding data, indicates that at two VES survey points, there are some sub surface waters bearing zones and hard rock at the greater depth (Table-3) and top soil approx., 4 m while consolidated hard rock is encountered below 4 m depth with massive thickness of 60 m depth.



Dr. Amarjeet Kumar Singh
Qualified person