

DISTRICT SURVEY REPORT

FOR

MINOR MINERAL - STONE

(OTHER THAN SAND MINING OR RIVER-BED MINING)

IN

BOKARO DISTRICT OF JHARKHAND STATE

As per Gazette Notification No. - S.O. - 3611 (E), 25th July 2018 by MoEF & CC

PREPARED BY



Sathi Planners Private Limited

OCI-NABET Accredited and ISO 9001:2015 Certified Company

Address - Lake Avenue, Kanke Road, Ranchi - 834003, Jharkhand

E-mail - info@sathi planners.com, Phone No. - +91-7604035778.

Website - www.sathi planners.com



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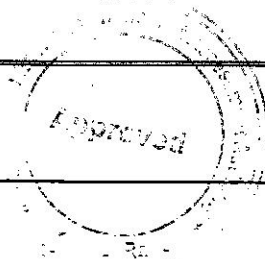
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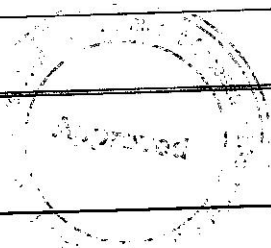
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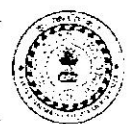
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Recommended by Sub-Divisional Committee and Deputy Commissioner, Bokaro

P. K. Singh
Assistant Director, Geology
Bokaro

R. Anni
District Mining Officer
Bokaro

for *R. Singh*
Executive Engineer, Irrigation
Bokaro

21/2/23
Regional Officer, SPCB
Dhanbad

J. S.
Sub-Divisional Officer
Bermo (Tenughat)

(N)
Sub-Divisional Officer
Chas

A. D.
Additional Collector,
Bokaro.

Paiveem Kuz
Divisional Forest Officer,
Bokaro

Deputy Development Commissioner
Bokaro

(Signature)
Deputy Commissioner
Bokaro

Approved by,

(Signature)
28/02/2023
Member
State Level Environment Impact
Assessment Authority, Jharkhand

SEIAA, Jharkhand

(Signature)
Chairman
State Level Environment Impact
Assessment Authority, Jharkhand

Member
State Level Environment Impact
Assessment Authority, Jharkhand

(Signature)
28/02/2023
Member Secretary
State Level Environment
Impact Assessment Authority
Jharkhand

District *(Signature)*



1. 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.

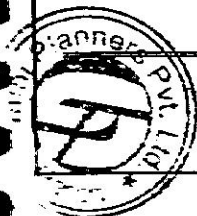
The main purpose of DSR is to identify the mineral potential areas to develop the mining activities along with relevant current geological data of the district where mining can be allowed; and also to distinguish the areas where mining will not be allowed due to proximity to infrastructural structures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

Bokaro district is one among 24 districts of Jharkhand State. Bokaro district administrative head quarter is Bokaro Steel City. It is located 112 km west towards State capital Ranchi. Bokaro District population is 2061918. It is 5th largest district in the State by population. It is located at Latitude 23° 24'27" N to 23° 57'24" N and Longitude 85° 34'30" E to 86° 29'10" E. It falls under Survey of India Toposheet Nos. - 73 E/9, E/10, E/13, E/14, 73 I/1, I/2, I/5 and I/6. Bokaro district is sharing border with Dhanbad district to the East, Ramgarh district to the West, Purulia district to the South. It is sharing border with West Bengal State to the East. Bokaro district occupies an area of approximately 2861 km². It lies between the '273 meters to 158 meters' elevation range. This district belongs to Hindi belt of India. Hindi is the local language here. Also People Speaks Santhali. Bokaro district is divided into 9 Blocks, 252 Panchayats, 1409 Villages. Kasmar block is the smallest block by population with 76221 population. Chas block is the biggest block by population with 698625 population. Bokaro District's total population is 2061918 according to Census 2011. Males are 1076158 and Females are 985760. Literate people are 1364165 among total. Its total area is 2861 km². It is the 5th largest district in the State by population but 13th largest district in the State by area, 221st largest district in the Country by population, 5th highest district in the State by literacy rate & 305th highest district in the Country by literacy rate. Its literacy rate is 73.48.

The Damodar river is the most important river in the district which flows from West to East in the Central part of the District. The major tributaries of Damodar are Konar and Jamuniya. The minor tributaries of the Damodar river are Isri, Gobai, Tasharkhan, Kadwa, Khanju etc.

District Headquarter Bokaro Steel City is well connected by road. Bokaro Steel City, Phusro, Chandrapura, Gumia, Tenu Dam-cum-Kathhara are the cities in this district having road connectivity to major towns and remote villages. Bokaro Steel City is about 112 km by road to Ranchi (Capital of Jharkhand). Some of the railway stations in District are Bokaro Steel City, Chandrapura Junction, Pundag, Phusro, Radhagaon, Bokaro Thermal, Bhandaridah, Gumia etc. which connects most of the towns and villages of the district.

The occurrence of Minor minerals in the district have been established by Department of Mines and Geology, Government of Jharkhand and others in previous instances. It requires further



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MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND



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.



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2. INTRODUCTION

The District Survey Report of Bokaro 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 mineral. It shall assist 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 concern District Mining Office.

2.1 Statutory Framework:

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

Table 2.1: Requirement of District Survey Report & its year wise modification

Year	Particulars
1994	The Ministry of Environment, Forest & Climate Change (MoEF & CC) published Environmental Impact Assessment Notification 1994 which is only applicable for the Major minerals having mining lease area more than 5 Ha.
2006	In order to cover the minor minerals also into the preview of EIA, the MoEF & CC issued EIA Notification S.O. - 1533 (E), dated 14 th September 2006, made mandatory to obtain Environmental Clearance for both Major & Minor mineral having mining lease area more than 5 Ha.
2012	Further, Hon'ble Supreme Court wide order dated 27 th 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 & CC"; and Hon'ble National Green Tribunal, order dated 13 th January, 2015 in the matter regarding Sand

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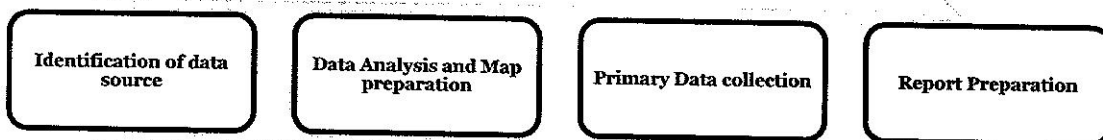


	mining has directed for making a policy on Environmental Clearance for mining leases in cluster for Minor minerals.
2016	The MoEF & CC in compliance of above Hon'ble Supreme Court's and NGT's order has prepared "Sustainable Sand Mining Guidelines (SSMG), 2016" in consultation with State Governments, 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 25 th July 2018 and recommended the format for District Survey Report for Minor minerals other than Sand mining or River-bed mining. The notification stated about the objective of DSR, i.e. "identification of the mineral potential areas to develop the mining activities along with relevant current geological data of the District where mining can be allowed; and also to distinguish the areas where mining will not be allowed due to proximity to infrastructural structures and installations."

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

2.2 Methodology of DSR Preparation:

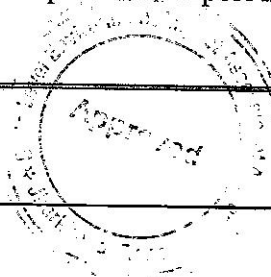
The data related to district profile, geology, mineralization, mining activity are sketchy and disjointed. There are multiple data sources, which are in the public domain, as well as in government website. To prepare District Survey Report, need to collate all the available databases on these regards. 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 collected from different sources. The data sources which are used in DSR are mostly based on Government published data or the published report in reputed journal. District profile



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

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

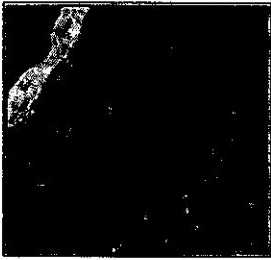



Land Use and Land Cover Map:

Land Use and Land Cover classification is a complex process and requires consideration of many factors. The major steps of image classification may include determination of a suitable classification system via Visual Image Interpretation, selection of training samples, Satellite image (FCC - False Color 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.

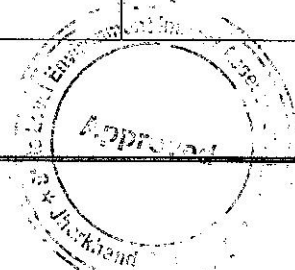
According to the Visual Image Interpretation (Tone, Texture, Colour etc.) training set of the pixel has been taken.

Table 2.2: Pictorial Descriptions of Physiographic Classification

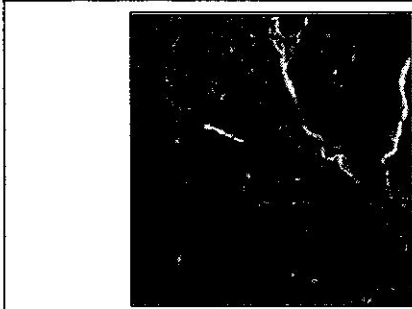
	
<p>Agricultural Land - Based on their Geometrical shape, Red and Pink color tone, Agricultural Land has been identified.</p>	<p>Vegetation Covered Area - Based on their continuous Red color tone, Vegetation Covered Area has been identified.</p>
	
<p>Agricultural Fallow Land - Based on their Geometrical shape, Light and dark Cyan with light Pink color tone, Agricultural Fallow Land has been identified.</p>	<p>Bad Land Topography - Light Yellowish mixed with Cyan color has been identified as Bad Land Topography.</p>



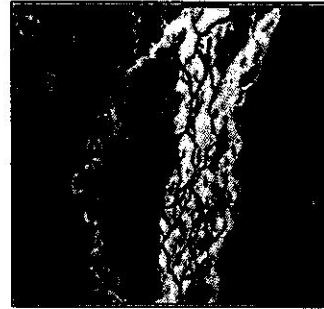
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Settlement – Area with Cyan color including geometrical shape has been recognized as Settlement Area.



Water Bodies – Dark Blue color has been classified as Water Bodies.

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:

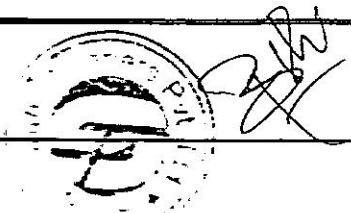
- Raw Data collected from **National Informatics Centre (NIC Website)** during March 2022 and October 2022.
- Data has been geo-referenced using GIS software.
- Digitization of Block boundary, District Boundary, State Boundary, International Boundary and District Headquarter, sub–district Headquarter, Places, Road, Railway, River, Nala etc.
- Road name, River name, Railway name has been filled in attribute table of the Layers.
- Final layout has been prepared by giving scale, legend, north arrow, etc.

Transportation Map:

- Raw Data collected from **National Informatics Centre (NIC Website)** during March 2022 and October 2022.
- Data has been geo-referenced using GIS software.
- Digitization of Block boundary, District Boundary, State Boundary, International 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)** during March 2022 and October 2022.
- Data has been geo-referenced using GIS software.
- Block boundary, District Boundary, State Boundary, International Boundary & 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.





Earthquake 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:

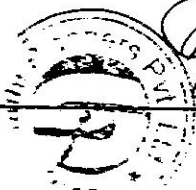
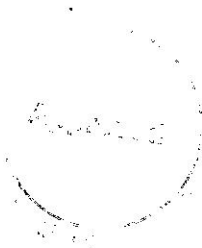
- Raw data collected from **National Bureau of Soil Survey and Land Use Planning**.
- Data has been geo-referenced using GIS software.
- Digitization of Soil classification zone and superimposed it over District Boundary.
- Soil classification has been filled in attribute table of the Layers.
- Final 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** during August 2022.
- Data has been geo-referenced using GIS software.
- Digitization of Wildlife Sanctuary & National Park and superimposed it over Block Boundary.
- Wildlife Sanctuary & National Park name has been filled in attribute table of the Layers.
- Final layout has been prepared by giving scale, legend, north arrow, etc.

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

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





3. OVERVIEW OF MINING ACTIVITY IN THE DISTRICT

3.1 Overview of mining Activity:

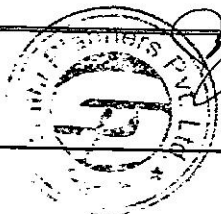
The State stretches over 79,714 km² geographical areas with 29.61% forest area and owns about 40% of total mineral resources of India. The State occupies 1st position in coal reserves, 2nd position in Iron, 3rd position in Copper ore reserve and 7th position in Bauxite reserve and is the sole producer of prime coking coal. Limestone, Dolomite, Manganese, Mica, China Clay, Graphite, Soap stone, Fire Clay, Coal Bed Methane, Uranium, Phosphorite, Apatite, Quartz, Feldspar, Gold and Pyroxenite are the other important minerals available in huge quantities in State. Bokaro came into existence as a district on 1st April, 1991. Prior to this, it formed part of Dhanbad & Giridih district. Bokaro district is famous for steel manufacturing unit. The Bokaro district is rich in Coal minerals and other Major minerals are Limestone & Coal Bed Methane (CBM). Other mineral like Stone, Sand, Limestone, Quartz, Soil/Clay etc. are also available in the district. Jharkhand is known for its rich mineral resources. The main mineral resources found in Bokaro district are Coal, Limestone, CBM and Stone Chips, building & road construction Stones, Quartzite, Soil/Clay etc. The mining in these leases is regulated as per different mineral concession rules of Jharkhand. At present, 06 leases of Stone and 02 leases of Quartzite are operational in the Bokaro district.

Table 3.1: Minor mineral's Leases in Bokaro District

Sl. No.	Name of Mineral	Total No. of Leases in Bokaro District
1	Stone	Working Leases - 06
2	Quartzite	Working Leases - 02
3	Sand	Working Leases - 02

Table 3.1.1: Major mineral's Leases in Bokaro District

Sl. No.	Name of Mineral	Total No. of Leases in Bokaro District
1	Coal	Working Leases - 10



DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND



जिला खनन कार्यालय, बोकारो।

बोकारो जिले में स्वीकृत कोयला खनिज के खनन पट्टों की विवरणी।

क्र०	पट्टाधारी का नाम	खनिज का नाम	खनन क्षेत्र का विवरण		
			अंचल	मौजा	अभ्युक्ति
1	सर्वश्री सी० सी० एल०	कोयला	बेरमो	जरगडीह कोलियरी	घालू
2	तदैव	तदैव	नावाडीह	गोविन्दपुर यू०जी०	घालू
3	तदैव	तदैव	नावाडीह	गोविन्दपुर फेज-2	घालू
4	तदैव	तदैव	बेरमो	बोकारो कोलियरी	घालू
5	तदैव	तदैव	बेरमो	कासे ओपेनकास्ट	घालू
6	तदैव	तदैव	बेरमो	कोनार एक्सप्रेसन ओ०सी०पी०	घालू
7	तदैव	तदैव	बेरमो	डोरी खास कोलियरी	घालू
8	तदैव	तदैव	बेरमो	एच०डी०ओ०पी०एच०	घालू
9	तदैव	तदैव	बेरमो	अमली कोलियरी	घालू
10	सर्वश्री बी० सी० एल०	तदैव	दुग्धा	धामोदा कोलियरी	घालू

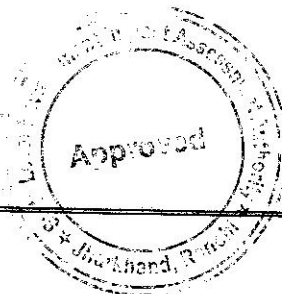
जिला खनन कार्यालय, बोकारो।

बोकारो जिले में स्वीकृत कोयला खनिज के खनन पट्टों की विवरणी।

क्र०	पट्टाधारी का नाम	खनिज का नाम	खनन क्षेत्र का विवरण		
			अंचल	मौजा	अभ्युक्ति
1	सर्वश्री सी० सी० एल०	कोयला	नावाडीह	कमारा कोलियरी	बन्द
2	तदैव	तदैव	नावाडीह	स्वाम यू०जी०	बन्द
3	तदैव	तदैव	बेरमो	तापनी कोलियरी	बन्द
4	तदैव	तदैव	बेरमो	पिपराडीह कोलियरी	बन्द
5	तदैव	तदैव	बेरमो	एच०एस०डी० कोलियरी	बन्द
6	तदैव	तदैव	पेटरवार	पिछरी कोलियरी	बन्द
7	तदैव	तदैव	बेरमो	करगली ओपेनकास्ट	बन्द
8	तदैव	तदैव	बेरमो	करगली यू०जी०	बन्द
9	तदैव	तदैव	बेरमो	कौ०एस०पी०	बन्द
10	तदैव	तदैव	बेरमो	कौ० एम० पी०	बन्द
11	तदैव	तदैव	बेरमो	एच०डी०एच०-3	बन्द
12	तदैव	तदैव	बेरमो	डोरी कोलियरी	बन्द
13	डी०पी०सी० बेरमो माईन्स	तदैव	बेरमो	डी०पी०सी० बेरमो माईन्स	बन्द
14	सर्वश्री बी० सी० एल०	तदैव	चन्दनकियारी	अमलाबाद कोलियरी	बन्द
15	इलेक्ट्रोस्टील कार्बिडिंग लि०	तदैव	चन्दनकियारी	पर्वतपुर कोल ब्लॉक	बन्द

बोकारो जिले में स्वीकृत क्षेप्याभरण (बालू) खनिज के खनन पट्टों की विवरणी।

क्र०	पट्टाधारी का नाम	खनिज का नाम	खनन क्षेत्र का विवरण		
			अंचल	मौजा	अभ्युक्ति
1	मेसर्स टाटा स्टील लिमिटेड, जामाडोवा, धनबाद	क्षेप्याभरण बालू	चन्दनकियारी	मौजा-महाल सहारजोरी एवं बोगला	घालू
2	तदैव	तदैव	चन्दनकियारी	मौजा-महाल एवं लागला	घालू



DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND



3.2 Details of Expired Mining Leases in the District:

Sl. No.	Name of the Mineral	Name of the Lessee	Address of the Lessee	Area of Mining Lease (Acres/Ha.)	Location of the Mining Lease	Period of Mining Lease
1	Stone	M/s Jyoti Minerals of Shri Mohan Lal Jain	Sector - 4 C-38 City Centre Bokaro Steel City Dist. - Bokaro - 827013	2.07/0.837	Mouza - Pindrajora Thana No. - 136 Thana - Pindrajora Dist. - Bokaro Khata No. - 08 Plot No. - 2828, 2833, 3378, 3377, 2834, 2882, 2820	27.05.2008 26.05.2018
2	Stone	Shri Nirmal Kumar Singh S/o Late Dhananjay Singh	Village - Jainamore P.O. - Jainamore Thana - Jaridih Dist. - Bokaro	0.90/0.36	Mouza - Tantri Thana No. - 06 Thana - Jaridih Pargana - Gola Dist. - Bokaro Khata No. - 109 Plot No. - 789	Up to 31.03.2022
3	Stone	M/s Maa Chhinmastika Stone Crusher of Partner 1: Shri Kuldeep Singh Partner 2: Shri Anil Kumar Singh Partner 3: Shri Sudhir Kumar Singh	Jaridih Bazar House No. - 423 P.O. - Jaridih P.S. - Gandhinagar, Bermo Dist. - Bokaro - 829114	4.44/1.7977	Mouza - Nawadih Thana No. - 52 Thana - Peterwar Dist. - Bokaro	04.09.2015 03.09.2020 & then extended up to 31.03.2022
4	Stone	Shri Vivek Kumar Agrawal S/o Shri Ashok Kumar Agrawal	House No. - 97 Mansarovar Villa R. K. Chatterjee Lane By Pass Road, Chas	2.50/1.01	Mouza - Bharajori Thana - Chandankiyari Dist. - Bokaro	28.05.2010 27.05.2020





**DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER BED MINING FOR
BOKARO DISTRICT OF JHARKHAND**

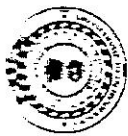
5	Stone	M/s Jyoti Minerals	Dist. - Bokaro - 827013 At C-38, City Centre P.O. - Sector - 4 Dist. - Bokaro - 827004	5.00/2.02	Village - Kelyadabar Thana No. - 139 P.S. - Pindrajora Dist. - Bokaro Khata No. - 136 Plot No. - 1104(P)	15.01.2017	14.01.2022 & then extended up to 31.03.2022
6	Stone	M/s Maa Basanti Stone Mine	Village - Belunja P.O. - Bijulia P.S. - Chas Dist. - Bokaro	1.00/0.404	Village - Belunja Thana - Chas Dist. - Bokaro Khata No. - 156 Plot No. - 1833(P)	23.08.2010	22.08.2020
7	Stone	M/s N. R. Construction Pvt. Ltd. of Shri Daya Shankar Rai	C-16, City Centre Dist. - Bokaro	4.00/1.618	Village - Amdiha P.S. - Pindrajora Dist. - Bokaro Khata No. - 189 Plot No. - 169, 171, 172, 173, 174, 175, 176 & 185	01.09.2010	31.08.2020 & then extended up to 31.03.2022
8	Stone	M/s Maa Kali Stone Crusher of Shri Santosh Kumar Singh	At Gorabali P.O. - Balidih Dist. - Bokaro	1.84/0.74	Village - Kanari P.O. - Tupkadih Dist. - Bokaro Khata No. - 283 & 284 Plot No. - 3106(P), 3107, 3108(P)	01.09.2010	31.08.2020 & then extended up to 31.03.2022
9	Stone	Md. Naim Ansari S/o Late Haji Kasim Ali Ansari	Village - Nodih P.O. - Banstora P.S. - Chandankiyari Dist. - Bokaro	2.50/1.01	Village - Bharajori Thana No. - 182 Thana - Chandankiyari Dist. - Bokaro	22.09.2010	21.09.2020
10	Stone	M/s Santhal Enterprises of Shri Dilip Kumar Yadav	Sector - 4/F Quarter. No. - 79 Bokaro Steel City Dist. - Bokaro	5.55/2.25	Mouza - Chainpur Thana No. - 37 Thana Name - Balidih Dist. - Bokaro Khata No. - 04 & 76	02.09.2015	01.09.2018



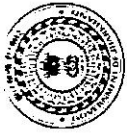
DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND

Sl. No.	Stone	M/s N. R. Enterprises of Shri Rajendra Yadav S/o Shri Sudama Yadav	At Sector 2/C Street No. - 04 Q. No. - 02-124 Dist. Bokaro	2.85/1.15	Plot No. - 163, 147(P) Village - Pundru Thana No. - 106 Thana - Pindrajora Dist. - Bokaro Khata No. - 202 Plot No. - 5932 (P), 5933(P)	08.01.2018	07.01.2023
12	Stone	M/s Pushparekha Stone of Partner 1: Shri Aditya Nath Roy Partner 2: Shri Vivek Rungta	Village + P.O. - Bhojudih Thana - Chandankiyari Dist. - Bokaro	5.00/2.02	Village - Simuliya Thana No. - 251 Thana - Chandankiyari Dist. - Bokaro Khata No. - 8 & 76 Plot No. - 761, 869, 760, 759(P), 930(P)	26.11.2017	25.11.2022
13	Stone	Shri Nipen Mishra S/o Late Damodar Mishra	Village - Jainamore P.S. - Jaridih Dist. - Bokaro	1.00/0.40	Village - Khutri Thana No. - 08 Thana - Jaridih Khata No. - 108 Plot No. - 2156(P)	03.04.2010	02.04.2020
14	Stone	M/s Kirti Enterprises of Shri Yogendra Prasad	Village - Telo P.O. - Telo Thana - Nawadih Dist. - Bokaro	1.68/0.67	Village - Telo Thana - Nawadih Dist. - Bokaro Khata No. - 281 Plot No. - 1318	-	Upto 31.03.2022
15	Stone	Shri Bhagwan Singh	Village - Butnadih P.O. - Pichhri Thana - Peterwar Dist. - Bokaro	2.00/0.81	Village - Pichhri (Butnadih) Thana - Peterwar Dist. - Bokaro Khata No. - 107 & 237 Plot No. - 3072, 3086(P), 2910(P)	-	Upto 31.03.2022

**DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR
BOKARO DISTRICT OF JHARKHAND**

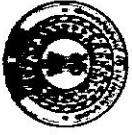


16	Stone	M/s Jharkhand Stone Works of Partner 1: Shri Radhanath Soren Partner 2: Shri Somar Nayak	Village - Utasara P.O. - Utasara P.S. - Peterwar Dist. - Bokaro	2.00/0.81	Village - Phutkadih Thana - Peterwar Dist. - Bokaro Plot No. - 203(P)	01.10.2018
17	Stone	Shri Jagdish Mahto	Village - Hisim P.O. - Hisim P.S. - Kasmar Dist. - Bokaro	1.50/0.60	Village - Hisim Tehsil - Kasmar Thana - Kasmar Dist. - Bokaro	02.10.2008
18	Stone	Shri Rameshwar Mahto	Village - Birni P.O. - Birni Thana - Nawadiah Dist. - Bokaro	2.00/0.81	Village - Dahiyari Thana - Nawadiah Dist. - Bokaro	04.10.2019
19	Stone	M/s Kamakhya Minerals of Shri Laxmi Narayan Singh	Village + P.O. - Jainamore P.S. - Jaridih Dist. - Bokaro	0.69/0.28	Village - Khuntri P.O. - Tupkadiah P.S. - Jaridih Dist. - Bokaro Khata No. - 18 Plot No. - 228	27.09.2020
20	Stone	M/s Laxmi Construction of Smt. Aruna Bala Devi	Village - Khutri P.O. - Tupkadiah P.S. - Jaridih Dist. - Bokaro	0.80/0.323	Village - Khutri P.O. - Tupkadiah Thana No. - 08 Thana - Jaridih Dist. - Bokaro	27.04.2021
21	Stone (Quartzite)	Shri Jeet Ram Manjhi	Village - Arjua Tola - Lawagadha Thana - Peterwar Dist. - Bokaro	2.48/1.00	Village - Arjua Thana - Peterwar Dist. - Bokaro	02.08.2020
22	Stone	M/s Maa Laxmi Stone Mine of Shri Ashok Kumar Soren	Village - Kenduadiah P.O. - Jainamore P.S. - Jaridih Dist. - Bokaro	5.56/2.25	Mouza - Tantri Thana No. - 06 Thana - Jaridih Dist. - Bokaro Khata No. - 113, 103, 138	22.12.2020 & then extended up to 31.03.2022



**DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR
BOKARO DISTRICT OF JHARKHAND**

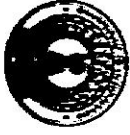
23	Stone	M/s Classic Engicon Pvt. Ltd. of Auth. Signatory: Shri Binayak Kumar	At Plot No. - B-1 Near Old U.B.I. Phase - 1 Industrial Area, Balidih Dist. - Bokaro Jharkhand - 827014	5-20/2.10	& 119 Plot No. - 1192, 1193, 1194, 1195, 1196, 1197, 1198 Mouza - Bagiar Thana - Kasmar Dist. - Bokaro Khata No. - 8, 3, 83 Plot No. - 1949, 1951, 1955, 1950, 1952, 1958	15-01-2017	14-01-2022
24	Stone	M/s Ankit Stone Mine of Shri Premchand Soren & Shri Harprit Singh Jaggi	Village - Totadiah P.O. - Tantri P.S. - Jaridih Dist. - Bokaro	4-36/1.77	Mouza - Tantri Thana No. - 06 Thana - Jaridih Dist. - Bokaro Khata No. - 132 & 103 Plot No. - 1442, 1443, 1444, 1449, 1450, 1451 & 1473(P)	23-12-2015	22-12-2020 & then extended up to 31-03-2022
25	Stone	M/s Shiv Enterprises of Shri Gopalji Pandey	Village - Tand Balidih P.O. - Balidih P.S. - Jaridih Dist. - Bokaro	2-82/1.14	Mouza - Nawadiah Thana No. - 52 Thana - Peterwar Dist. - Bokaro Khata No. - 08 Plot No. - 504	23-12-2015	22-12-2020 & then extended up to 31-03-2022
26	Stone (Dolerite)	M/s Maa Chhinmastika Stone Quarry of Partner 1: Shri - Radha Nath Manjhi S/o Shri Shyam Lal Manjhi Partner 2: Shri Tarun Kumar S/o Shri Ram Prasad Mahto	Village - Tupkadiah Thana - Jaridih Dist. - Bokaro	2-50/1.0117	Village - Khutri Thana - Jaridih Dist. - Bokaro Khata No. - 20 Plot No. - 1019	26-06-2016	25-06-2021



**DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR
BOKARO DISTRICT OF JHARKHAND**

27	Stone	M/s Anjani Kumar Pandey of Shri Santosh Kumar Pandey	Village - Taranga P.O. - Taranga P.S. - Chandrapura Dist. - Bokaro	1.45/0.59	Village - Taranga P.O. - Taranga P.S. - Taranga Dist. - Bokaro Khata No. - 101 Plot No. - 1220	26.08.2017	25.08.2022
28	Stone	M/s Jugnu Construction Company of Auth. Signatory: Shri Lalan Kumar Singh	At P.O. - Naya Road, Phusro Bazar P.S. - Bermo District - Bokaro Mobile - 9431539845	7.00/2.83	Mouza - Tantri Thana No. - 06 Thana - Jaridih Dist. - Bokaro Khata No. - 147 & 148 Plot No. - 6, 8, 9, 10 & 20	17.09.2017	16.09.2022
29	Stone	M/s Jai Mata Di Enterprises of Partner 1: Shri Nam Kishore Manjhi Partner 2: Shri Binod Nayak	Village - Mayapur P.O. - Rohar Thana - Peterwar Dist. - Bokaro	3.04/1.23	Village - Mayapur P.S. - Peterwar Dist. - Bokaro Khata No. - 36, 57 Plot No. - 649, 654 & 655	08.12.2017	07.12.2017
30	Stone	Shri Usman Ansari S/o Late Yunusuddin Ansari	Village - Lalpur P.O. - Kumirdova P.S. - Chandankiyari Dist. - Bokaro	0.97/0.39	Mouza - Lalpur Circle + P.S. - Chandankiyari Dist. - Bokaro Khata No. - 254 Plot No. - 1479	19.07.2014	18.07.2014
31	Stone (Quartzite)	Shri Rakesh Kumar S/o Shri Arun Kumar	Village - Ramnagar Colony P.O. + P.S. - Chas Dist. - Bokaro	5.00/2.02	Mouza - Partand Circle - Chas P.S. - Siyaljori Khata No. - 86 Plot No. - 1176	21.03.2018	20.03.2023
32	Stone	M/s Nayak Construction of Shri Subhash Chandra Nayak S/o Shri Bhushan Chandra Gorai	Village + P.O. - Chandra P.S. - Siyaljori Dist. - Bokaro	7.02/2.84	Mouza - Suryadih Circle - Chandankiyari P.S. - Siyaljori Khata No. - 19 Plot No. - 655(P), 691(P),	25.04.2018	24.04.2023





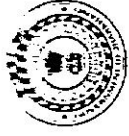
PERIODIC QUARTERLY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER BED MINING FOR
BOKARO DISTRICT OF JHARKHAND

33	Stone	Shri Radhanath Soren S/o Shri Darbari Manjhi	Village + P.O. - Utasara P.S. - Peterwar Dist. - Bokaro	0.83/0.34	694(P), 695(P)	Mouza - Mayapur Circle + P.S. - Peterwar Dist. - Bokaro Khata No. - 32 Plot No. - 472(P)	02.10.2008	01.10.2018	
34	Stone (Quartzite)	Shri Pankaj Kumar S/o Shri Kashinath Singh	House No. - 24A Street + P.O. - Bhaski P.S. - Jaridih Dist. - Bokaro	0.76/0.31		Mouza - Barai Circle + P.S. - Nawadih Dist. - Bokaro Khata No. - 31 Plot No. - 736	04.07.2014	03.07.2024	
35	Stone (Quartzite)	M/s Arihant Enterprises of Shri Ajay Kumar Jain S/o Shri Gyan Chand Jain	Village + P.O. + P.S. - Peterwar Dist. - Bokaro	2.45/0.99		Mouza - Mayapur Circle + P.S. - Peterwar Khata No. - 28 Plot No. - 1137(P)	11.01.2017	10.01.2022	
36	Stone	Shri Om Prakash Pandey	Village - Bogla P.O. - Galgaltand Thana - Chandankiyari Dist. - Bokaro	2.00/0.81		Village - Bogla P.S. - Chandankiyari Dist. - Bokaro	-	Up to 31.03.2022	
37	Stone	Md. Naim Ansari S/o Late Haji Kasim Ali Ansari	At - Naudaha P.O. - Banstora P.S. - Chandankiyari Dist. - Bokaro	2.50/1.01		Village - Bharajori P.S. - Chandankiyari District - Bokaro Khata No. - 113 Plot No. - 1945(P)	-	Up to 31.03.2022	
38	Stone	Shri Bhugwan Singh	At Bermo Seam P.S. - Bermo Dist. - Bokaro	2.45/0.99		Mouza - Khutri Thana - Jaridih Dist. - Bokaro	-	Up to 31.03.2022	
39	Stone	Smt. Vidhi Choudhary W/o Shri Sandeep Choudhary	Plot No. - 135 Cooperative Colony Bokaro Steel City	6.56/2.65		Mouza - Ukrid Circle - Chas P.S. - Sector - 12 Plot No. - 1303(P), 1315(P), 1300, 1302, 1316,	05.03.2007	31.03.2020	

**DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR
BOKARO DISTRICT OF JHARKHAND**



41	Stone	Shri Kameshwar Mahto S/o Shri Paltan Mahto	Village - Siyaljori P.O. - Yogdih P.S. - Chandankiyari Dist. - Bokaro	1.22/0.149	1330(P), 1329(P) & 1318 Mouza - Gopalpur Circle - Chas P.S. - Siyaljori Khata No. - 03 Plot No. - 230	29.01.2010	28.01.2020
42	Stone	Shri Aditya Rai S/o Shri Jagdev Rai	Village + P.O. - Bhojudih Thana - Chandankiyari Dist. - Bokaro	1.50/0.60	Mouza - Palkari Circle - Chandankiyari Dist. - Bokaro	02.07.2010	01.07.2020
43	Stone	M/s Pawan Ores & Bricks of Shri Vikash Chandra Agrawal S/o Shri Kailash Chandra Hemka	Sadar Bazar, Chas P.O. + P.S. - Chas Dist. - Bokaro	1.71/0.69	Mouza - Pupunki Ghat Bera Circle + P.S. - Chas Dist. - Bokaro Khata No. - 7, 221 Plot No. - 1161(P), 1172(P), 1173	23.12.2015	22.12.2020
44	Stone	M/s Shri Vishwanath Stone Mines & Crusher of Shri Manoj Kumar S/o Late Vishwanath Manjhi	Sector 2B Quarter No. - 2-257 Bokaro Steel City Dist. - Bokaro	5.42/2.19	Mouza - Kumhuri P.S. - Chas Dist. - Bokaro Khata No. - 110 Plot No. -	12.10.2017	11.10.2022
45	Stone	Shri Tejnarayan Hansda S/o Shri Mohan Hansda	Village - Khuntri P.O. - Tupkadih P.S. - Jaridih Dist. - Bokaro	0.80/0.32	Mouza - Khuntri Circle + P.S. - Jaridih Dist. - Bokaro Khata No. - 130 Plot No. - 1926(P)	-	Up to 31.03.2020
46	Stone	Shri Teklal Saw S/o Late Tilak Saw	Village - Gangpur P.O. - Barkipunnu P.S. - Mahuatand Dist. - Bokaro	1.20/0.48	Mouza - Chorgawan Circle - Gomia P.S. - Mahuatand Dist. - Bokaro Khata No. - 28 Plot No. - 511	-	Up to 31.03.2020
46	Stone	M/s Prakash Stone Quarry of	Village + P.O. - Gangjori		Village - Chilgara	03.08.2015	02.08.2020



DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND

	Shri Mithilesh Kumar S/o Late Sindhu Mahto	P. S. - Jaridih		Circle + Thana - Jaridih Dist. - Bokaro Khata No. - 41	
47	Shri Jitendra Kumar Jain S/o Late Gyanchand Jain	Village + P.O. + P.S. - Peterwar Dist. - Bokaro	0.63/0.25	Mouza - Phutkadih Circle + P.S. - Peterwar Dist. - Bokaro Khata No. - 19 Plot No. - 434	04.09.2015
48	M/s Rameshwaram Enterprises of Shri Rameshwaram Mahto S/o Shri Deglal Mahto	Village + P.O. - Birni Tola - Barmasia P.S. - Nawadih Dist. - Bokaro	4.16/1.68	Mouza - Dhamni Circle + P.S. - Nawadih Dist. - Bokaro Khata No. - 18 Plot No. - 64	26.11.2017
49	Partner 1: Shri Babu Ram Manjhi S/o Late Birbal Manjhi Partner 2: Shri Sahdev Saw S/o Late Lamtu Saw	Partner 1: Village - Jamuniatand P.O. - Rohar P.S. - Peterwar Partner 2: Village + P.O. - Dantu P.S. - Kasmar Dist. - Bokaro	2.30/0.93	Mouza - Rohar Circle + P.S. - Peterwar Khata No. - 39 Plot No. - 40	23.12.2015
50	Shri Vineet Kumar Agrawal S/o Late Lakhani Lal Agrawal	New Road, Phusro P.S. - Bermo Dist. - Bokaro	6.02/2.44	Mouza - Bandhdih Circle + P.S. - Jaridih Khata No. - 113 Plot No. - 47	27.01.2017
51	Shri Fatik Sharma S/o Late Kanthi Sharma	Village - Modidih P.O. - Chandra P.S. - Chandankiyari Dist. - Bokaro	1.50/0.61	Mouza - Chhatatand Circle + P.S. - Chandankiyari Khata No. - 137 Plot No. - 1256(P)	29.08.2009

District Mining Officer
Bokaro



4. GENERAL PROFILE OF THE DISTRICT

4.1 General Information:

The district Bokaro was created on 1st April, 1991 by taking out Chas and Chandankiyari C.D. Blocks of Dhanbad district and the entire Bermo Sub-division of Giridih district and then merging them to form a new district. Bokaro district is bounded on the east by Dhanbad district and some portion of West Bengal State, on the west by Ramgarh district, on the south by Purulia district of West Bengal and on the north by parts of Giridih, Hazaribag and Dhanbad districts. The District extends from Latitude 23°24'27" N to 23° 57'24" N and Longitude 85° 34'30" E to 86° 29'10" E. It is accessible through National Highway NH-143 & NH-18. Bokaro town is located about 100 km from Ranchi. The district is located at an elevation range of 200-546 m. from mean sea level. It is covered by Survey of India Toposheet Nos. - 73 E/9, 73 E/10, 73 E/13, 73 E/14, 73 I/1, 73 I/2, 73 I/5 and 73 I/6.

It has two sub divisions i.e. Chas and Bermo sub-division. Further, the sub-division is divided into nine blocks namely – Chas, Bermo, Gomia, Peterwar, Kasmar, Nawadi, Jaringdih, Chandankiyari and Chandrapura.

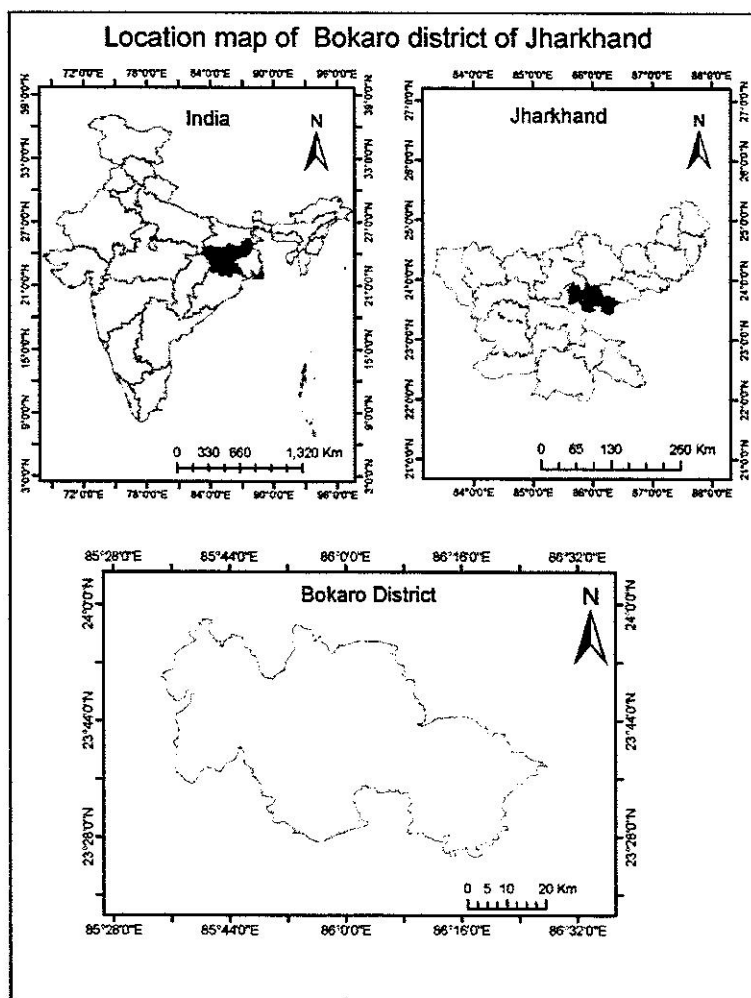


Fig. 4.1: Representative location of Bokaro District

DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND



Table 4.1: Sub-division of Block area and population wise details of Bokaro District

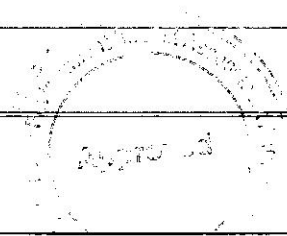
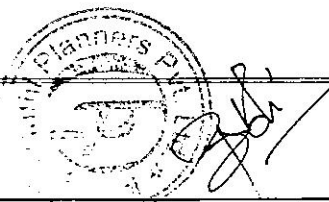
Sub-division	Area (Km ²)	Rural Population	Urban Population	Total Population	Male (2011)	Female (2011)
1. Chas	573.61	249083	564319	813402	427453	385949
2. Bermo	165.71	4222	185555	189777	99086	90691
3. Gomia	670.55	130898	100287	231185	118918	112267
4. Peterwar	305.71	127617	4533	132150	68127	64023
5. Kasmar	195.28	89974	0	89974	45947	44027
6. Nawadih	371.77	133848	4606	138454	70344	68110
7. Jaridih	207.53	75671	29317	104988	54445	50543
8. Chandankiyari	370.67	218597	11641	230238	119606	110632
9. Chandrapura (Newly created block)	NA	48776	83386	132162	68881	63281

(Source - Census-2011)

Block	Panchayat	Nos. of Villages
Chas	54	128
Bermo	19	16
Gomia	28	127
Peterwar	23	65
Kasmar	15	68
Nawadih	24	70
Jaridih	17	42
Chandankiyari	38	130
Chandrapura (Newly created block)	23	30

DISTRICT PROFILE

Name	Details
District Formation	1991
Nos. of Parliamentary Constituency	2
Nos. of Assembly Constituency	5
Nos. of Sub Division	2
Nos. of Block	9
Nos. of Gram Panchayat	249

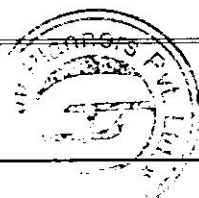


**DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND
MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND**

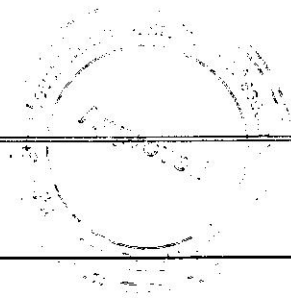


DISTRICT PROFILE	
Name	Details
Nos. of Revenue Village	635
Municipal Corporation	1
Municipal Council	1
Total Geographical area (km ²)	2883
Total Population	20,62,330
Urban Population	10,78,686
Rural Population	9,83,644
Schedule Castes	236,472
Schedule Tribes	218,600
Backward Classes	715 per km ²
Density of Population	72.01
% of Literacy	72.01%
Male	1,072,802
Female	989,523
Sex Ratio	922

(Source: bokaro.nic.in)



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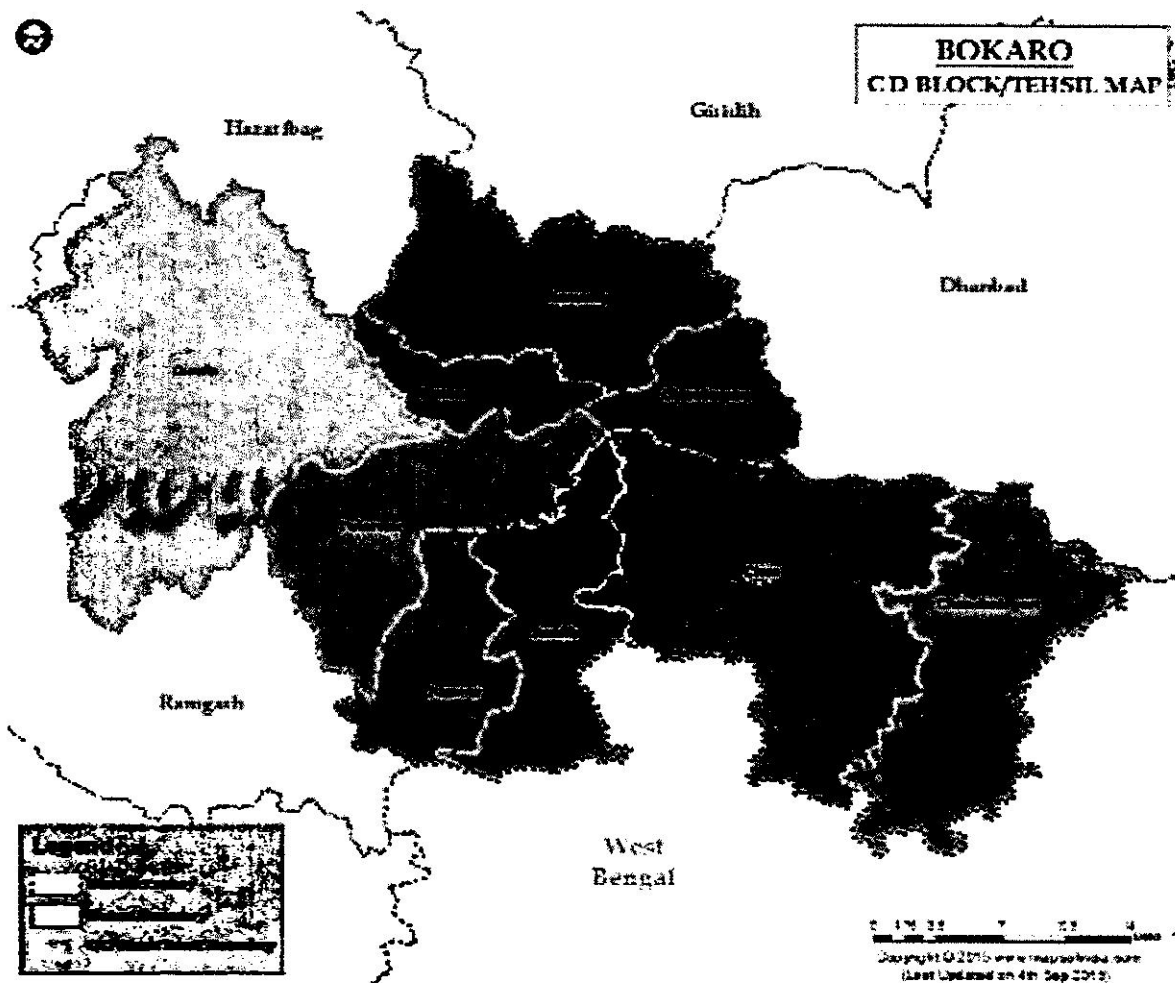


Figure 4.2: Block Map of Bokaro District

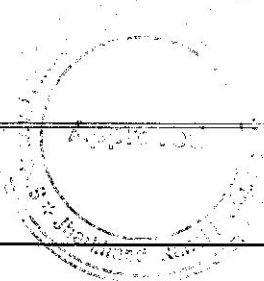
(Source: National Informatics Centre)

4.2 Topography & Terrain:

Topographically, it is a lower plateau having relatively little undulations. The district consists of two distinct physical units. Northern area is hilly with forest while southern area provides appearance of plain. The average altitude of the land is above mean sea level. The general slope is from North-West to South-East. Geologically, the area is comprised with Archean granites and gneisses. In southern part Gondwana rock formation occurs in patches. The important rivers flowing in the district are Damodar, Bokaro, Goban, Jamunia, Kumar & Khusa River.

4.3 Demography:

In 2011, Bokaro had population of 2,062,330 of which male and female were 1,072,807 and 989,523 respectively. In 2001 Census, Bokaro had a population of 1,772,024 of which males were 938,436 and remaining 839,226 were females. Bokaro District population constituted 6.25 percent of total Maharashtra population. In 2001 census, this figure for Bokaro district was at 6.60 percent of Maharashtra population. There was change of 16.01 percent in the population compared to population as per 2001. In the previous census of India 2001, Bokaro district recorded increase of 22.22 percent to its population compared to 1991.

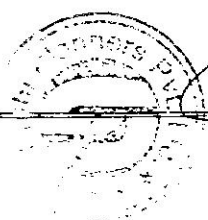


**DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND
MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND**

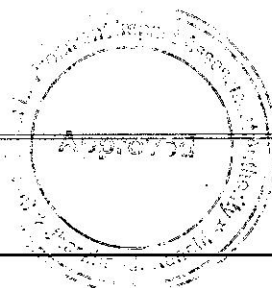


Description	2011	2001
Population	20.62 Lakhs	17.78 Lakhs
Actual Population	2,062,330	1,777,662
Male	1,072,807	938,436
Female	989,523	839,226
Population Growth	16.01%	22.22%
Area Km ²	2,883	2,883
Density/km ²	715	617
Proportion to Jharkhand Population	6.25%	6.60%
Sex Ratio (Per 1000)	922	894
Child Sex Ratio (0-6 Age)	923	950
Average Literacy	72.01	62.10
Male Literacy	82.51	76.04
Female Literacy	60.63	46.33
Total Child Population (0-6 Age)	293,786	291,148
Male Population (0-6 Age)	152,803	149,326
Female Population (0-6 Age)	140,983	141,822
Literates	1,273,520	923,150
Male Literates	759,088	600,048
Female Literates	514,432	323,102
Child Proportion (0-6 Age)	14.25%	16.38%
Boys Proportion (0-6 Age)	14.24%	15.91%
Girls Proportion (0-6 Age)	14.25%	16.90%

(Source - census2011.co.in)



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4.4 Connectivity in Bokaro District:

Bokaro district is situated in the eastern part of the State of Jharkhand. Bokaro district is bounded on the east by Dhanbad district and some portion of West Bengal State, on the west by Ramgarh district, on the south by Purulia district of West Bengal and on the north by parts of Giridih, Jharkhand and Dhanbad districts. Bokaro district is well connected by road, rail and air communication system from other parts of the country.

(i) Railway Station: Bokaro Steel City is a railway station. Chandrapura is another important railway station in Bokaro district. Bokaro is well connected by Train/Rail route also. The Bokaro Steel city is connected to Grand cord line at Gomo Railway station. Important Trains Like Shambhu Express between Bokaro and Howrah, Hatia Patna Express. Alleppy Express and Jharkhand Swarna Jayanti Express between Hatia to Delhi (Bi-weekly) run through this station. For other places trains can be boarded at Dhanbad Railway Station, which is at a distance of only 45 km from Bokaro and grand cord line passing through it.

(ii) Road: With regular bus services, travelers can directly reach the city of Bokaro, as various State government operated and private buses help in making the journey comfortable for the tourists. A bus ride can leave a person amazed as the natural beauty of the region is worth exploring. Passenger buses and Non Stop buses run regularly from Ranchi, Dhanbad, Ramgarh, Purulia (WB), Patna (Bihar) etc.

Table 4.5: Distance of Bokaro from some important places

Name of Place	Distance in Kilometres
Ramgarh	80 km
Ranchi(Via Ramgarh)	130 km
Ranchi(via Jhalda)	165 km
Dhanbad	45 km
Giridih	110 km
Jamshedpur	135 km
Patna(Via Ramgarh)	370 km
Peterwar	35 Km

Airways : The nearest commercial airport is at Ranchi, named Birsa Munda Airport, at a distance of 120 km. Bokaro Airport is an un-serviced airport with no scheduled commercial flights. However, the Government of India has planned to connect Bokaro to the regional hub of Patna and an international airport in Kolkata through the UDAN regional airport development scheme. Opening the airport up could see commercial flights by 2022.



DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND

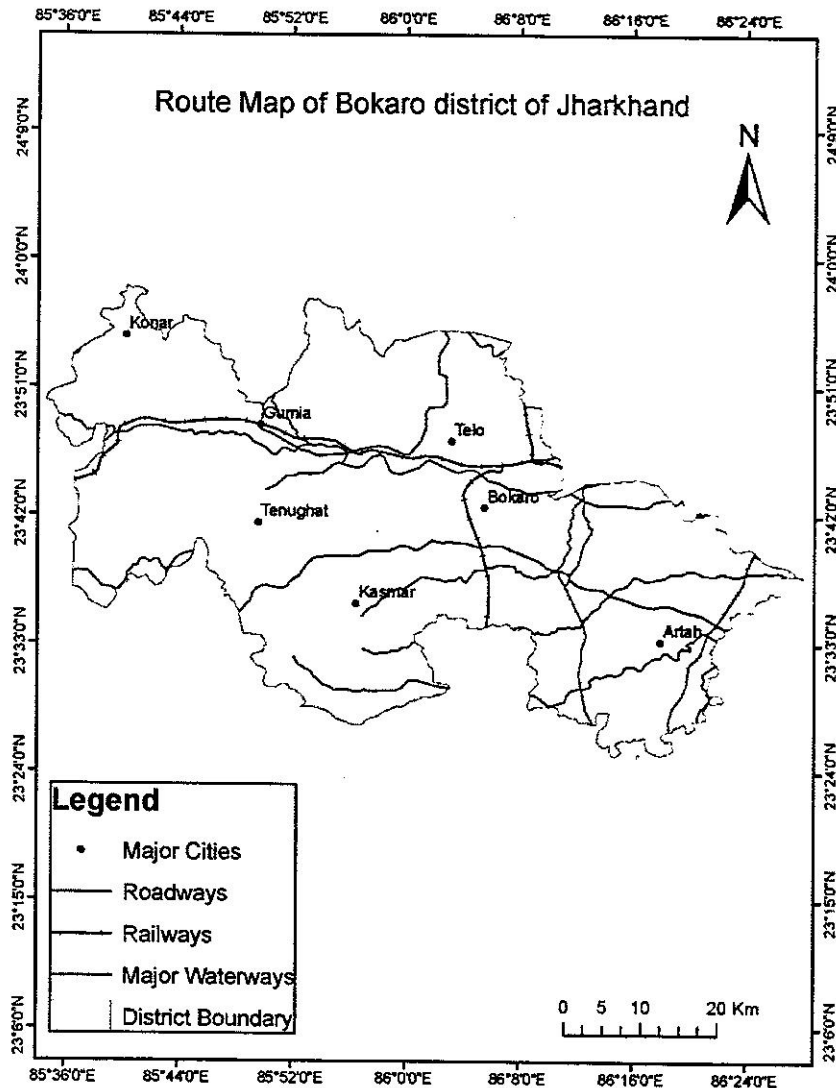


Figure 4.3: Route Map of Bokaro District

4.5 Flora & Fauna:

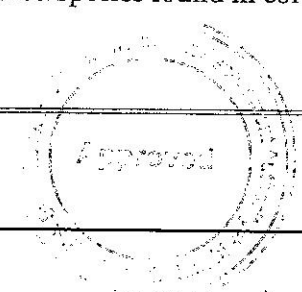
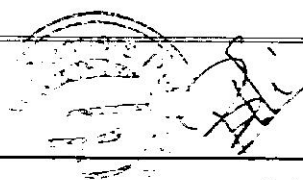
Flora of the District:

There is no rare or endangered species found in core and buffer zones of the area. The district has different tree species, namely, Sal (*shorea Robusta*), Khair (*acacia Catechu*), Asan (*terminalia Tomentosa*), Karam (*adina Cordifolia*), Sidha (*lagerstroemia Parviflora*), Gamhar (*gmelina Arborea*), Semal (*bombax Malabaricum*), Medh (*litsaea Semifera*). Bel (*aeglem Armelos*), Kedar (*garuga Pinnata*), Galgal (*cochlospetnum Gosaypium*), Kend (*diospyros Tomentosa*), Kusum (*schlfichera Trijuga*), Seessam (*dalbergia Latifolia*), Siris (*boswellia Serrata*), Bamboo (*dendrocalamus Strictus*) etc.

Fauna of the District:

Animals and birds found within the district are of very general type reported in the locality consisting of rabbits, wild pigs, monkeys and jackals. Birds include pigeons, parrots, wild fowls and owls etc. There is no rare and endangered species found in core and buffer zone.

(Source - DSR -Stone-2018)





5. PHYSIOGRAPHY OF THE DISTRICT

5.1 General Landforms:

Bokaro uplands (in the western part), Bokaro-Chas uplands (middle part), Damodar-Barakar Basin (eastern part), are the physical divisions. Out of which Bokaro-Chas uplands is the major physical division in the district. The region forms the south-western portion of the district. It extends from the north to the south. River Damodar forms its northern boundary. The region is bounded by the State of West Bengal in the south, Damodar-Barakar Basin in the east and by Giridih district in the west. It comprises the major portion of Chas and small portion of Chandankiyari C.D. Blocks. The entire region has undulating surface. The height varies between 200m to 282m. The general slope of the region is from the west to the east. Damodar is the main river which flows along with its tributaries like Garga and Parga in this tract. Minor rivers which flow in the district are Bokaro, Kunar, Khusa and Uri. The other river of the district is Gobai, which flows through Chandankiyari block area and Konar in Gomia block. Scattered patches of forest are found all over the region. Its geology is related to Chhotanagpur gneiss. Soil is Ustalfs-Aqualfs-Ochrepts. The average annual rainfall is 1,291.2 mm. Paddy, millets and pulses are the main crops of the region. The district is located at an elevation of 200-546 m from mean sea level. The highest peak in Lugu pahar is 1070m. It is situated in the western part of the district. Ravines are found in the western part of the district having rugged topography. Major portion of the district is comprised of Chhotanagpur Gneiss and small patches of Gondwana formations with thick layers of coal.

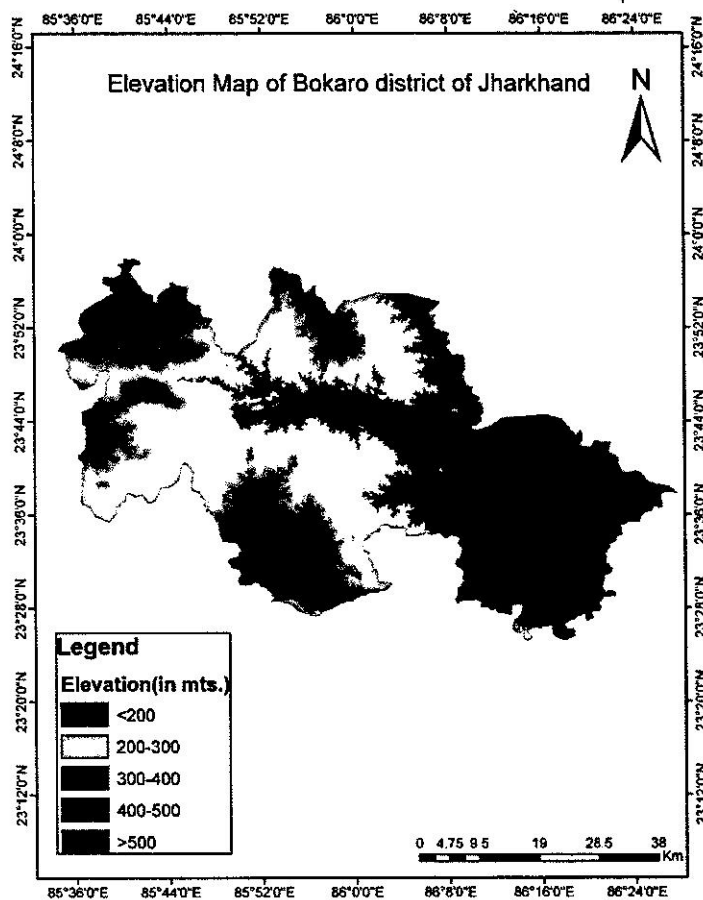


Fig. 5.1: Map Showing Elevation Profile of Bokaro District

(Source: Aster DEM Imagery Data)



5.2 Soil:

The soils of Bokaro district can be broadly grouped into the soil developed in different formation Ek Granite or Granite Gneiss of Archean Age, Sand Stone and shales of Gondwana Foundation and Alluvial Plain.

Texturally the soils of Bokaro district have been classified into four classes as: -

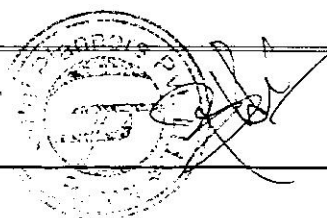
- a) **Stony and Gravelly:** These are low grade soils having a large admixture of cobbles, pebbles and gravels generally found at the base of the hills.
- b) **Sandy Soils:** It is found near the stream beds containing 60% sand and are easily drained. These are poor in respect of fertility and requires heavy manuring.
- c) **Loamy Soils:** These consists mostly of detaitus of decomposed rocks and vegetables matter. It is suitable for cultivation. Normally these are found in valleys near the hills.
- d) **Clayey Soils:** These soils are found near tank beds. It is sticky soils. Their water bearing capacity is very high. The area is very fertile but yielding capacity improved with addition of sand, lime and organic manures etc.

5.3 Geomorphology:

The Bokaro district is part of Chhotanagpur Plateau. It is highly undulating and hilly all over the district. The regional slope of the district is towards east and controlled by the alignment of the tributaries of Damodar river. The hill ranges trending WNW–ESE. The average elevation of the undulating pediplain ranges from 200–350m above MSL. The highest hill prominent block is Gomia. The northern and western part of the district are having hilly ranges. Chas and Chandankiyari are low upland where cultivation is practiced.

Table 5.1: Geographical Profile of Bokaro District

Sl. No.	Particulars	Data
1	Latitude	Latitude - 23° 26' N to 23°57' N
2	Longitude	Longitude - 85° 34' E to 86° 26' E
3	Area (in Km ²)	2881
4	Height above Mean Sea Level	688.97 Ft.
5	Temperature	Winter (Min. 18.1, Max. 25.9) Summer (Min. 28.1, Max. 38.4)
6	Average Annual Rainfall	1198 mm
7	Climate	Summer (May-June) Winter (Dec-Feb) & Rainy (July-Aug) Seasons
8	Main Tribes	Oraon, Chero, Korwa and Pahariya
9	Main Minerals	Dolomite, Limestone, China Clay & Granite
10	Language Spoken	Hindi & Oraon
11	Nearest Railway Station	Bokaro Railway Station
12	Nearest Airport	Bokaro Airport





6. GEOLOGY & MINERAL WEALTH OF THE DISTRICT

6.1 Geology:

Major portion of the district is comprised of Chhotanagpur Granite Gneissic Complex and small patches of Gondwana formations with thick layers of coal. In Bokaro area, the Gondwana sediments rest unconformably on the Precambrian basement rocks comprising of granites with pegmatite veins, amphibolite, epidiorite, mica-schist, quartzite and porphyritic gneisses. To the north of the West Bokaro Coalfield, the Precambrian rocks are separated from the Gondwanas by a boundary fault while to the south and west the Gondwanas generally overlie the Pre Cambrians with a profound unconformity.

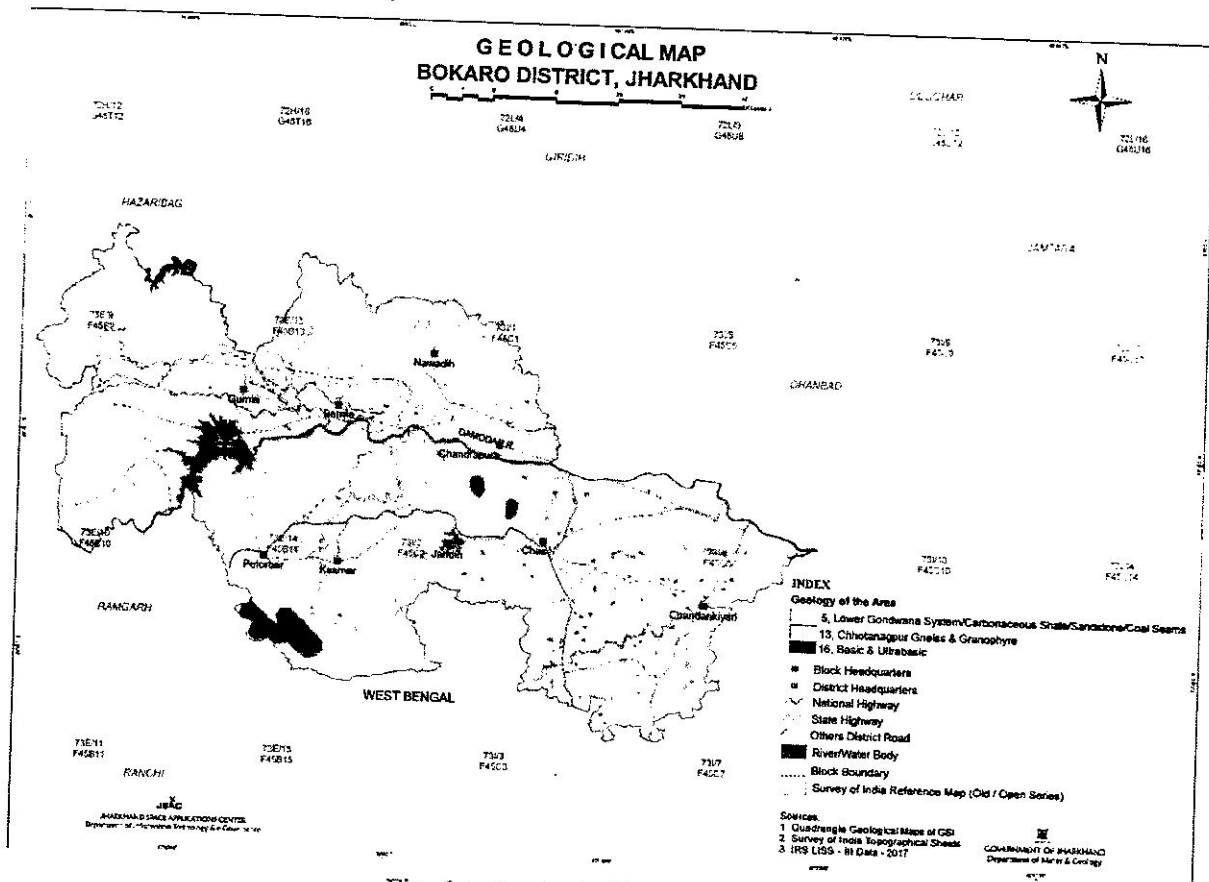


Fig. 6.1: Geological Map of Bokaro District

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

Mineral Wealth of Bokaro District

Bokaro district is covered by rocks of Gondwana formation in isolated basins within Chhotanagpur Granite Gneissic terrain. Two major coalfields viz. East Bokaro & West Bokaro covers the district. The district is thus endowed with good potential of Coal & Fireclay. Apart from Coal, the district also comprises of good deposits of Quartz, Quartzite, Feldspar, China clay, Limestone and General stone (amphibolite, dolerite etc.)

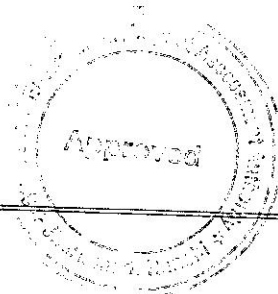
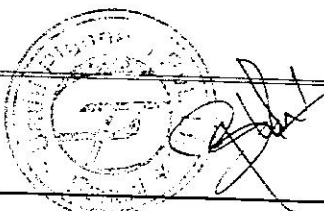




Table 6.1: Generalized Stratigraphy of the Bokaro (Raja Rao, 1987)

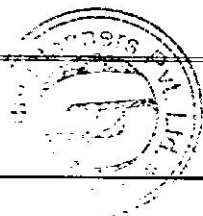
Age	Formation	Lithology	Thickness
Recent Jurassic		Alluvium and Laterite. Basic and ultra-basic dykes and sill
Upper Triassic	Supra Panchet (Mahadevan)	Conglomerate, ferruginous Sandstone and Siltstone.	600m
Lower Triassic	Panchet	Fine grained Sandstone, green Shale and red and chocolate coloured Shale and Clay.	450m
Upper Permian	Raniganj	Fine grained Sandstone, Siltstone, carbonaceous and Grey Shale with thin Coal seams.	550m
Middle Permian	Barren Measures	Carbonaceous Shale, Grey Micaceous Shales with Ironstones.	300m
Lower Permian	Barakar	Conglomerate, Pebbly Sandstones, very coarse grained to fine grained Sandstones, Grey Shales, Fire Clay and Coal seam.	610m
	Karharbari	Conglomerates, very coarse grained Sandstone, carbonaceous at places and thin Coal seams.	40-60m
	Talcher	Diamictite, fine to medium grained greenish and buff coloured Sandstones shales, Rhythmites, Turbidites etc.	160m
Precambrian		Grantes, Gneisses, Amphibolites, Quatiztes, Pegmatites, etc.	

6.2 Overview of Mineral Resources:

Mainly three types of Minor minerals constituents such as Sand, Stone and Bajri are required for any type of construction apart from other material like cement and steel. In the earlier time, the mud houses/buildings were constructed with the use of mud. However, with the passage of time, new techniques of development activities were started. As such the demand of Minor mineral started on an increasing trend. In order to meet the requirement of raw material for construction, the extraction of sand carried out manually/semi-mechanized process from the river beds.

The local residents used to lift sand etc. from the river beds to meet out their bonafide requirement. However, after coming into being "The Jharkhand Minor Mineral Concession Rules 2017", the mining is regulated in accordance with the rules. In Bokaro district, number of minerals are extracted which include mainly coal, quartzite, stone and sand. Bokaro is well known for Coal deposits.

(Source - DSR-Bokaro - 2018)



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DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND

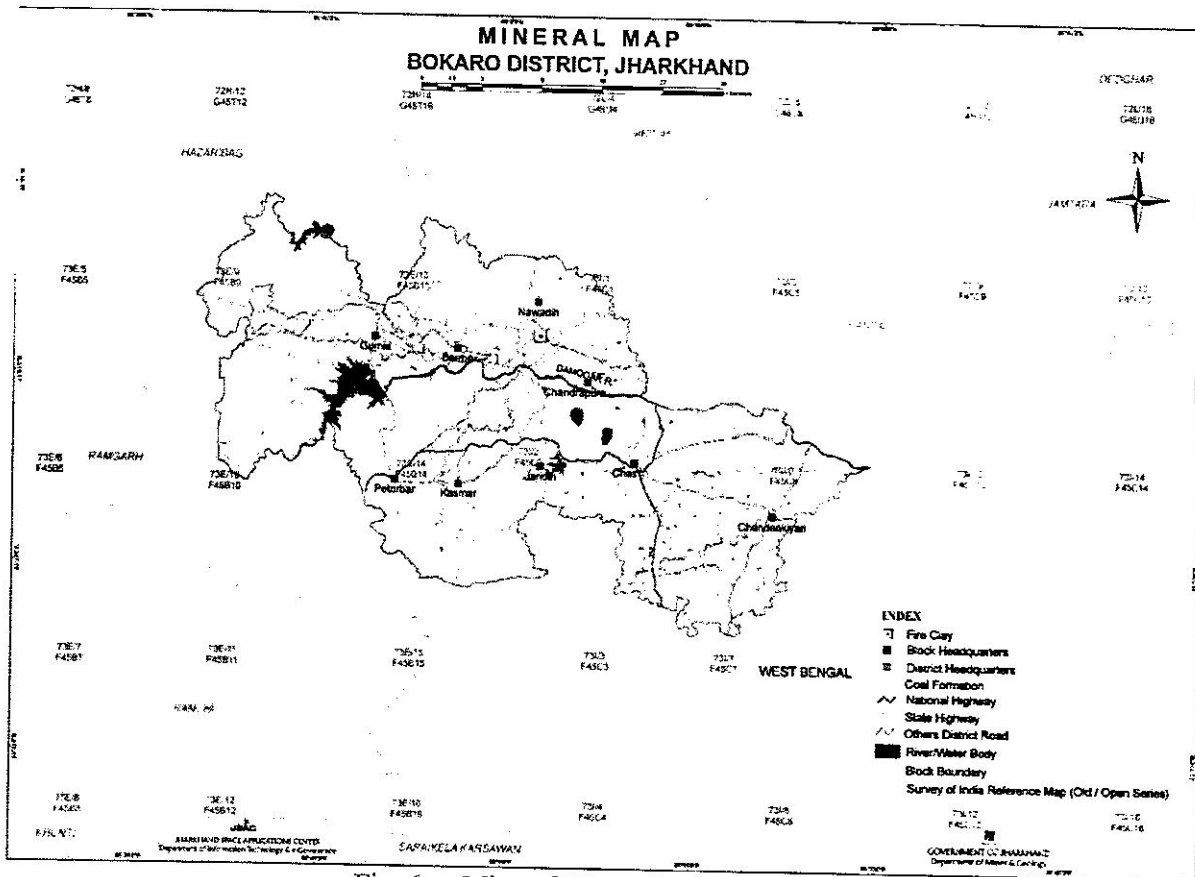
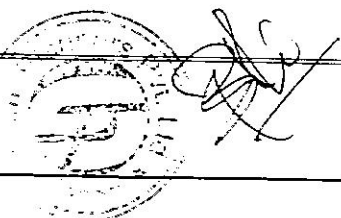


Fig. 6.2: Mineral Map of Bokaro District
(Source: JSAC, Deptt. of Mines & Geology, Govt. of Jharkhand)





7. DRAINAGE SYSTEM & IRRIGATION PATTERN

7.1 Drainage System:

The Damodar River is the most important river in the district which flows from west to east in the central part of the district. The major tributaries of Damodar are Konar and Jamuniya. The minor tributaries of the Damodar river are Isri, Gobai, Tasharkuan, Kadwa, Khanju etc. The drainage system is mainly confined to weak zones viz. joints, fractures and faults.

Table 7.1: Drainage System with description of main Rivers

S. No.	Name of the River	Area drained (Km ²)	Area drained in the District
1	Tasharkuan River	0.89	0.031
2	Garga River	1.41	0.049
3	Gobai River	2.53	0.088
4	Godda Nala	0.73	0.026
5	Ijri River	2.69	0.093
6	Gantiko River	0.79	0.028
7	Konar River	24.91	0.866
8	Damodar River	24.91	0.866
9	Chirua Nala	0.26	0.009
10	Khalsa Nala	0.45	0.016
11	Bokaro River	4.81	0.167
12	Jamuniya River	7.33	0.255

Table 7.2: Salient features of important River & Streams

S. No.	Name of the River or Stream	Total Length in the District (in km)	Origin
1	Tasharkuan River	15.00	
2	Garga River	46.51	Kasmar, Bokaro District
3	Gobai River	37.78	
4	Godda Nala	14.73	
5	Ijri River	51.29	
6	Gantiko River	15.17	
7	Konar River	43.58	Sultana village, Hazaribag
8	Damodar River	178.77	Near Chandwa village in Latehar
9	Chirua Nala	4.60	
10	Khalsa Nala	9.38	
11	Bokaro River	31.85	South of Hazaribag, Hazaribag plateau
12	Jamuniya River	35.45	Near Bishungarh, Hazaribag

Approved

**DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND
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Table 7.3: Order of main Rivers of Bokaro District

	River Name	Order
1	Damodar River	8 th
2	Gobai River	5 th
3	Ijri River	4 th
4	Garga River	5 th
5	Jamunia River	4 th
6	Konar River	6 th
7	Bokaro River	7 th
8	Tasharkuan River	2 nd
9	Gantiko River	5 th
10	Godda Nala	4 th
11	Chirua Nala	5 th
12	Khalsa Nala	3 rd

• **Damodar River**

Damodar River begins near Chandwa village in Palamau district, on the Chhotanagpur Plateau of Jharkhand. It has a number of tributaries and sub tributaries, such as Barakar, Konar, Bokaro, Jamunia, Ghee, Khudia, Katri etc. Damodar River runs for about 178.77 kms within the district. The Barakar is the main tributary of the Damodar.

• **Jamunia River**

The Jamunia River is a tributary of the Damodar River. The Jamunia River rises on the Hazaribag plateau, near Bishungarh. It runs near the Grand Trunk Road from around Bagodar to past Dumri and then turns south, forms the border between Dhanbad and Bokaro districts. It runs for about 35.45 kms within the district.

• **Gobai River**

Gobai River is a tributary of Damodar River. It flows through Chandankiyari area and runs for about 37.78 kms within Bokaro district.

• **Ijri River**

Ijri River is a tributary of Gobai River which runs for about 51.29 kms within Bokaro district.

• **Garga River**

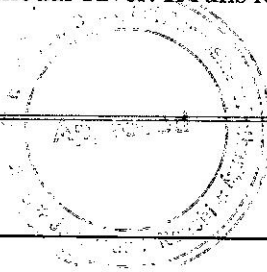
Garga River is a tributary of Damodar River which flows in Bokaro district. It runs for about 46.51 kms within Bokaro district.

• **Konar River**

The Konar River is a tributary of Damodar River in Bokaro and Hazaribag district of Jharkhand. It originates near Sultana village on the Hazaribag-Chatra Road. Thereafter, the Konar with its tributary Siwani drains a greater portion of the Hazaribag plateau, and then descending through the barren wastes of scrub and jungle passes Gomia to receive the waters of the Bokaro River, shortly before it joins the Damodar River near Jaridih Bazar in Bokaro district. It runs for about 43.58 kms within Bokaro district.

• **Bokaro River**

The Bokaro River flows through the Hazaribag and Bokaro districts in the Indian State of Jharkhand. The Bokaro River rises on the Hazaribag plateau, south of Hazaribag, but quickly skirts the southern face to pass in a narrow and beautiful valley between Jilinga and Langu Hills. It passes through the West Bokaro and East Bokaro Coalfields. It flows into the Konar River shortly before the latter flows into the Damodar River. It runs for about 31.85 kms within Bokaro district.



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• **Tasharkuan River**

Tasharkuan River is a small river which flows in Bokaro district of Jharkhand. It runs for about 15.00 kms in the district.

• **Gantiko River**

Gantiko River is also a small River which flows in Bokaro district of Jharkhand. It runs for about 15.17 kms in the district.

• **Godda Nala**

Godda Nala is a small stream which flows in Bokaro district of Jharkhand. It runs for about 14.73 kms in the district.

• **Chirua Nala**

Chirua Nala is a small stream (nala) which flows in Bokaro district of Jharkhand. It runs for about 4.60 kms in the district.

• **Khalsa Nala**

Khalsa Nala is a small stream (nala) which flows in Bokaro district of Jharkhand. It runs for about 9.38 kms in the district.

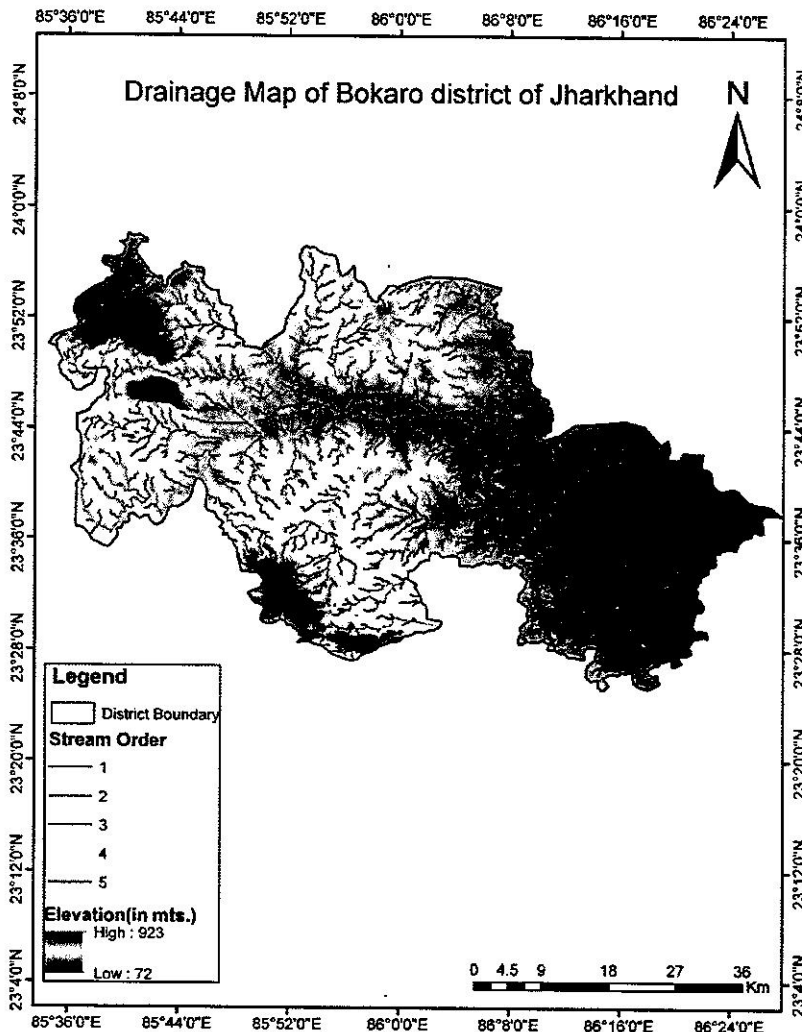
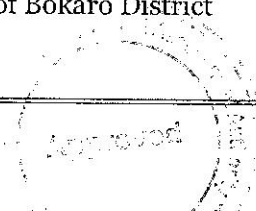
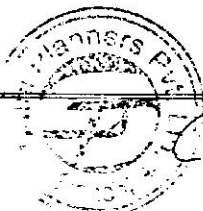


Fig. 7.1: Drainage Map of Bokaro District



DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND



7.2 Irrigation Pattern:

Source of Irrigation		Grand Total	
Surface Irrigation	Govt. Canal	2	
	Canal Based	Community/Pvt. Canal	0
		Community Ponds	262
	Tanks/Ponds/	Individual/Pvt. Ponds	0
	Reservoirs	Govt. Reservoir	34
		Govt.	37
	Tube Wells	Pvt.	6
		Community/Govt.	2542
	Open Wells	Pvt.	6
		Govt.	6
Ground Water	Bore Wells	Pvt.	-
Other sources including Traditional WHS(3)			-
Treated effluent discharged from STP			-
Water Extraction devices/Lift	Electricity Pump	6	
	Diesel Pump	6	
	Others	-	
	Irrigation Sources	2969	
Total	Water Extracting Units	0	

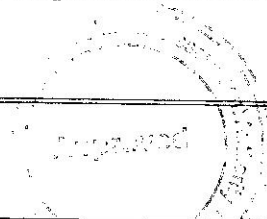
Irrigation is a critical input in agriculture. The need for increased food-grain production in the district relates to development of water resources and its management. Ground water resources are more sustainable even under period of moisture stress and, therefore, greater emphasis is being laid on the optimum development and efficient management of these resources on scientific lines. Most importantly, irrigation acts as a buffer under drought conditions, whereby the protective irrigation can prevent crop loss.

Agriculture and forestry are the two main occupations of the local population in the Bokaro district but the land available for the cultivation is limited because of the hilly and rugged topography. The absence of proper and the assured source of the irrigation have impeded the growth of agriculture. Undulating topographic features characterize the district. The agricultural activity of the district is solely dependent upon the monsoon rainfall and the kharif crops mainly paddy is grown extensively.

Irrigational facilities are not adequate in the district. Well is the most common source of irrigation, but this is not very dependable source. The major part of the district being rocky, it is difficult to dig deep dug wells. Where there exists facility for irrigation during Rabi season from the ponds and store water in small nalas, vegetable is the major crop grown in that area. The summer paddy is grown in low lying areas in few places. Paddy and maize are important crops grown in the district.

The most common source of irrigation 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 are by no means adequate. The result is that failure of rains invariably involves failure of crops except in small pockets.

The following table reveals the present status of irrigation in the district.



DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND



Particulars	% in terms of Geographical Area	Area (In Ha.)
Geographical Area (GA)	100%	288100
Net Sown Area	30.16%	86900.37
Net Irrigated Area as	10.01%	8698.8

The details of irrigation source & facility are given in the following table.

Percentage of Farmers land having access to irrigation	20.68			
Average irrigation coverage for farmers having access, acre/family	0.64			
Source of Irrigation	Well	Lift Irrigation	Pond	Others
%age of farmers	65.56	26.67	4.44	3.33

The coverage of irrigated area as per source of irrigation is depicted below -

Source	Coverage in ha.
Rivers / Streams / Canals	4627
Waterbodies	4983
Total	9610

(Source: District Irrigation Plan – Bokaro, Govt. of Jharkhand)



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8. LAND UTILIZATION PATTERN OF THE DISTRICT

8.1 Forest:

The forestal geographical area of 3651.59 km², forest area covers nearly 2403.04 km². The tribal economy revolves around using forest products, by products and minor products. Kendu leaves, Bamboo and its manufactured products, Mahua, fruits, leaves lac etc. play a role in the economic activity of the people. People also hunt animals for food and 'Jani Shikar' festival is related to this hunting habit.

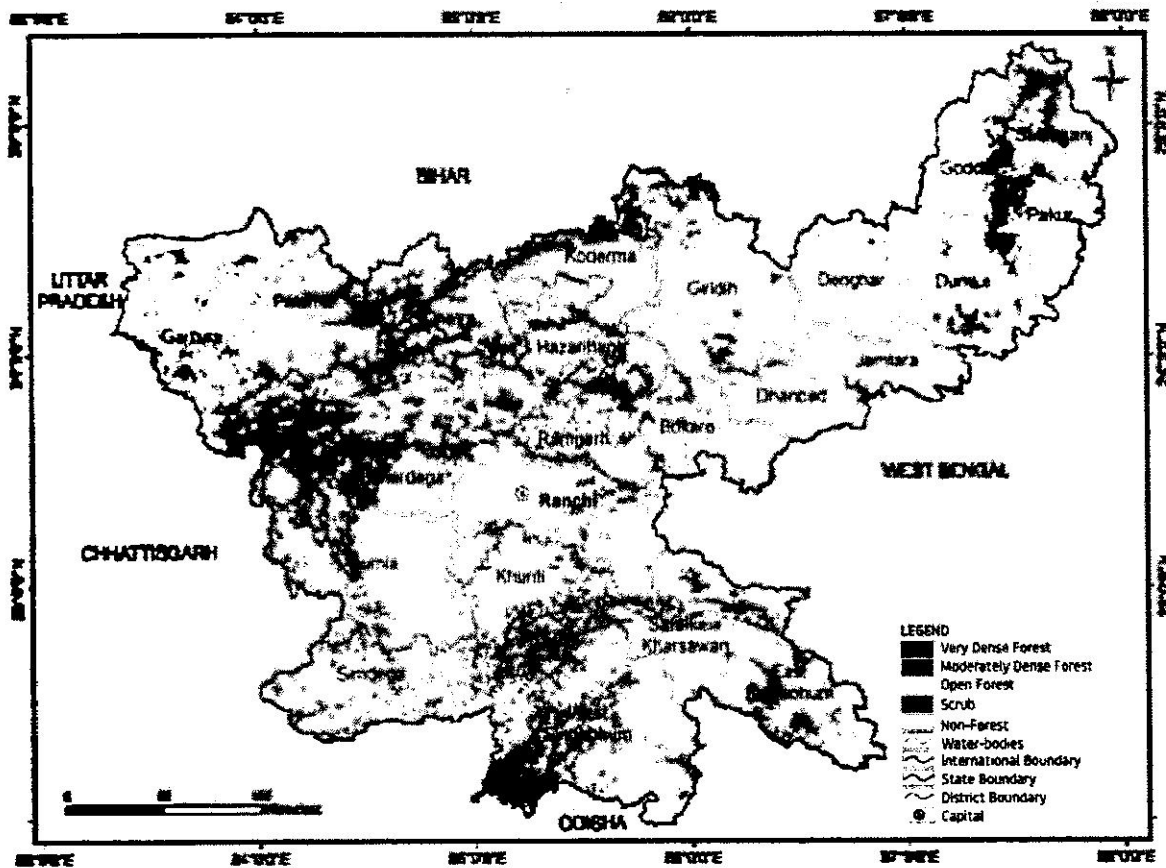


Fig. 8.1: Forest Cover Map of Jharkhand

(Source: India State of Forest Report, 2021)



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District Mining Officer
BOKARO

DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND



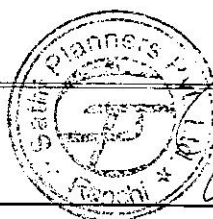
Table 8.1: District wise Forest Cover Area in Jharkhand (Area in Km²)

District	Geo-graphical Area (GA)	2021 Assessment				%of GA	Change wrt 2019 assessment	Scrub
		Very Dense Forest	Mod. Dense Forest	Open Forest	Total			
Bokaro	2,883	60.99	231.94	283.07	576.00	19.98	2.45	37.95
Chatra	3,718	244.28	871.73	666.08	1,782.09	47.93	4.74	23.57
Deoghar [†]	2,477	0.00	14.30	191.50	205.80	8.31	2.09	14.04
Dhanbad	2,040	0.00	44.00	174.18	218.18	10.70	4.67	16.05
Dumka [†]	3,761	0.00	259.40	318.23	577.63	15.36	0.32	44.55
East Singhbhum [†]	3,562	54.81	591.69	434.19	1,080.69	30.34	1.31	20.91
Garhwa [†]	4,093	125.14	415.60	890.98	1,431.72	34.98	40.13	44.32
Giridih	4,962	77.16	338.56	490.19	905.91	18.26	4.67	28.92
Godda [†]	2,266	12.81	271.88	138.66	423.35	18.68	0.00	14.27
Gumla [†]	5,360	304.69	585.81	552.65	1,443.15	26.92	0.89	8.25
Hazaribagh	3,555	230.11	348.54	784.54	1,363.19	38.35	10.42	15.99
Jamtara [†]	1,811	0.00	20.84	85.18	106.02	5.85	5.38	5.32
Khunti [†]	2,535	72.97	344.59	496.18	913.74	36.04	8.25	3.11
Koderma	2,540	80.80	494.43	447.82	1,023.05	40.28	-0.42	6.37
Latehar [†]	4,291	480.36	1,308.93	613.75	2,403.04	56.00	-3.30	9.30
Lohardaga [†]	1,502	174.03	218.40	111.99	504.42	33.58	-0.20	7.66
Pakur [†]	1,811	2.96	172.40	111.64	287.00	15.85	-0.13	20.06
Palamu [†]	4,393	62.82	512.73	640.18	1,215.73	27.67	14.95	84.23
Ramgarh	1,341	30.96	109.32	190.98	331.26	24.70	2.26	14.49
Ranchi [†]	5,097	62.89	363.91	741.98	1,168.78	22.93	4.29	27.98
Sahibganj [†]	2,063	17.74	258.73	297.48	573.95	27.82	1.60	47.53
Saraikela-Kharsawan [†]	2,657	22.03	213.84	338.73	574.60	21.63	0.56	21.87
Simdega [†]	3,774	21.97	343.54	877.89	1,243.40	32.95	2.48	20.28
West Singhbhum [†]	7,224	461.53	1,353.80	1,553.11	3,368.44	46.63	2.32	47.18
Grand Total	79,716	2,601.05	9,588.91	11,431.18	23,721.14	29.76	109.73	584.20

(Source: India State of Forest Report 2021 - Jharkhand)

8.2 Land Use Land Cover:

A total of 20 different categories have been recorded in Bokaro district as per report JSAC on Land Use Land Cover mapping of Jharkhand. The Percent areal distribution of different LU/LC classes has been displayed in Figure Table 8.2.

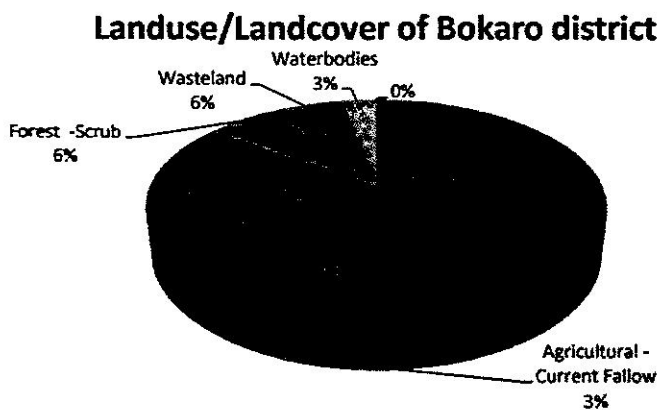


**SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND
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Sl. No.	Land use /land Cover Classes	Area	% of Total
		(Km ²)	Geographical Area
1	Agricultural Land-Crop Land-Kharif crop	1440.16	50.00
	Plantation	2.12	0.07
	Agricultural Crop Land	1442.28	50.08
5	Agricultural Land-Fallow-Current Fallow	105.53	3.66
	Agricultural -Current Fallow	105.53	3.66
6	Built Up-Built Up (Rural)-Built Up area (Rural)	195.89	6.80
7	Built Up-Built Up (Urban)-Mixed Built Up area	118.45	4.11
9	Built Up-Mining/Industrial Area-Mine/Quarry	44.49	1.54
	Built Up	358.83	12.46
10	Forest-Deciduous (Dry/Moist/Thorn)-Dense	697.58	24.22
11	Forest Plantation	5.95	0.21
	Forest & Tree Clad	703.53	24.43
12	Forest-Scrub Forest	185.86	6.45
	Forest -Scrub	185.86	6.45
14	Wasteland-Barren Rocky/Stony waste	2.16	0.07
16	Wasteland-Scrub land-Open scrub	171.72	5.96
	Wasteland	173.88	6.04
18	Waterbodies- River/Stream/Canals	46.27	1.61
19	Waterbodies	49.83	1.73
	Waterbodies	96.1	3.34
	Total Area	2880.15	100

The percentage area among major classified land categories is illustrated below:



(Source: District Irrigation Plan – Bokaro, Govt. of Jharkhand)



9. GROUND WATER SCENARIO OF THE DISTRICT

Ground water in the district is mainly replenished by the atmospheric precipitation. Influent seepages from canal, streams and other surface water bodies also contributes to the Ground water in the district. The hydrogeological condition of the district is very complicated due to wide variability of geology, topography, drainage and mining activity.

The district of Bokaro can be sub divided broadly into two hydrogeological units: -

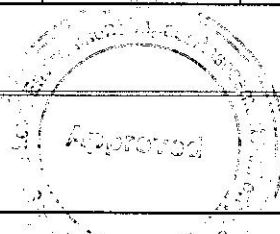
- a) Fissured Formation.
- b) Porus Formation or Unconsolidated Formation.

Based on the degree of consolidation the fissured formation can be further sub divided into two namely:

- (i) **Consolidated Formation:** Ground water occurs in the area under confined to semi-confined conditions. The fractured lineaments are found to be an effective factor in facilitating Ground Water movement and storage.
- (ii) **Semi Consolidated Formation:** Ground water occur in this formation under confined to Semi-confined condition. These are found in the central part of the district.
- (iii) **Unconsolidated Formation:** It occupies the low laying area covered with recent alluvium deposited mainly by Damodar, Konar and Jamunia rivers. The ground water occurs in these areas under water table condition.
- (iv) **Exploratory Wells:** - 19 exploratory wells were drilled by CGWB and 5 EWs through outsourcing in the district the available data reveals that 1-2 nos. of fractures zone up to the depth of 150.00 m bgl. The static water level in the bore wells varies from 1.25 to 19.07 mbgl. The discharge varies from meagre to 415 lps.

Table 9.1 Exploratory Wells drilled by CGWB of Bokaro district as on 31.12.12

Location	Depth (m bgl)	SWL (m bgl)	Fracture (m bgl)	Discharge (lpm)
SDO compound	200.85	19.07	80.95, 111.45	135
Mahila Polytechnic-1	200.00	4.98	21, 25, 149	108
Mahila Polytechnic-2	190.90	4.50	17.5-19.00, 105 - 106.50	108
Khutri	191.00	1.25	not encountered	meagre
Azadnagar-1	136.00	3.91	62.80	25
Azadnagar-2	50.45	-	-	meagre
Azadnagar-3	193.1	4.12	-	108
Azadnagar-4	26.2	-	-	meagre
Chandankiary-1	200.00	16.9	108.5, 139.00	150
Chandankiary-2	-	17.02	147.95-148.5	43.86
HS Baramasia-1	172.35	2.1	147.95-150	415
HS Baramasia-2	154.05	2.3	144-145.5	415
HS Baramasia-3	43.35	2.26	not encountered	72
Chandira Inter Collage-1	55.90	2.45	30.00-30.50	72.6
Chandira Inter Collage-2	123.00	2.43	96.00-98.00	72.6
Mamarkudiar. EW1	153.5	-	not encountered	Low discharge
Mamarkudiar. EW2	199.05	-	not encountered	Low discharge



FIELD SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND



Hazaribagh, EW	184	-	not encountered	Low discharge
Pandrajora, EW	180	-	not encountered	Low discharge

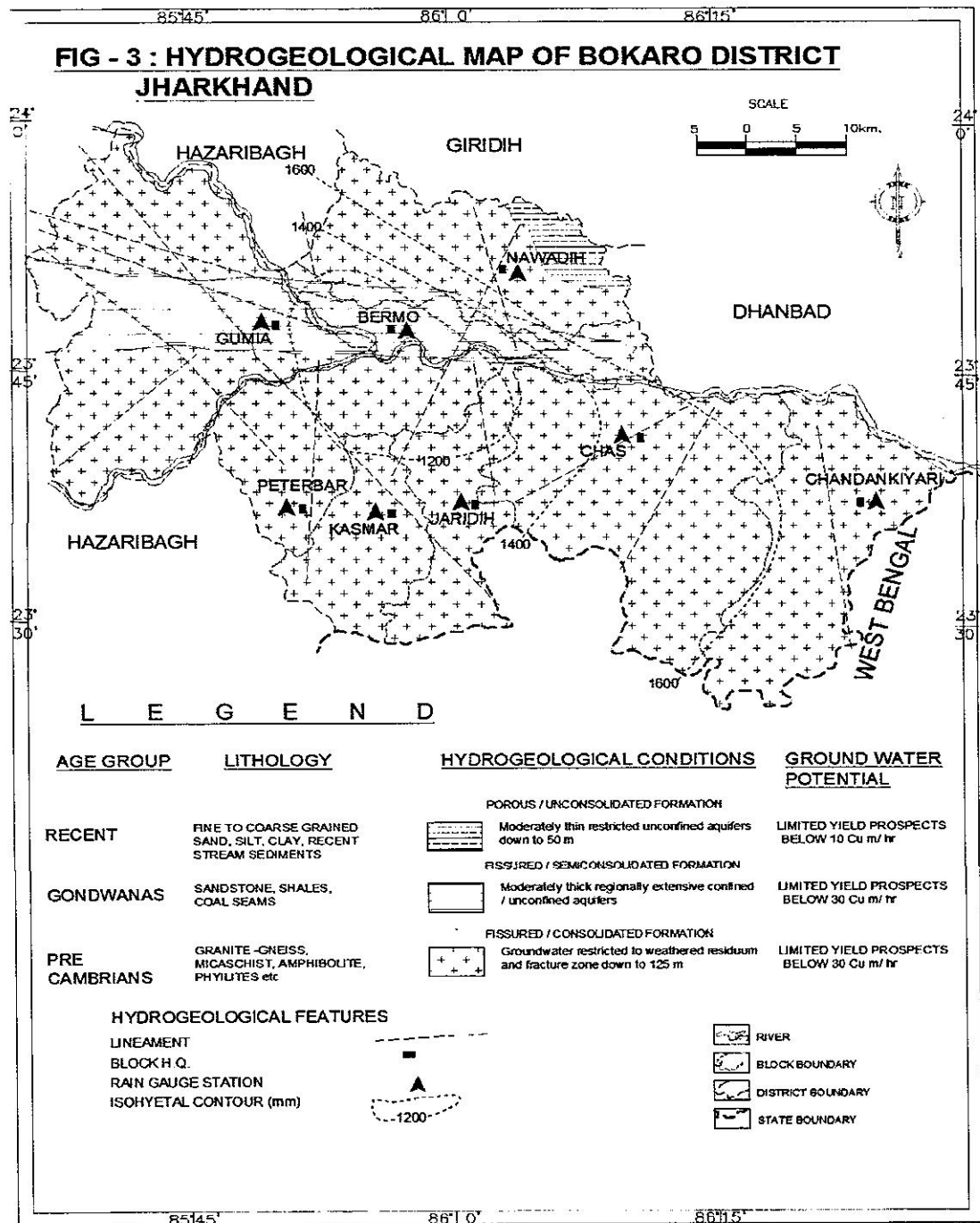
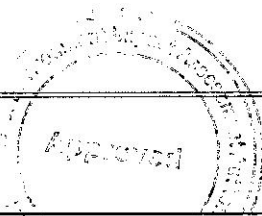
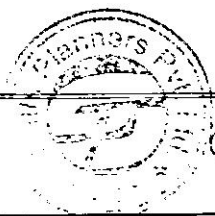


Fig. 9.1: Hydrogeological Map of Bokaro District, Jharkhand



DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND



Table 9.2: Exploratory Wells Drilled Through Outsourcing (Accelerated Drilling Programme) during AAP (2004-05)

Location	Depth (m bgl)	SWL (m bgl)	Fracture (m bgl)	Discharge (lpm)
Paddudih	150	6.30	33.48 – 39.06	Low
Galudih	150	5.89	91.11 – 96.73	Low
Naudiha	150	4.01	28.10 – 33.72 39.34 – 44.96	2.11
Chandankiyari	150	4.33	15.50 – 18.50 74.25 – 79.87	2.11
Nailanchal Ashram	150	3.18	90.92 – 96.54	< 1

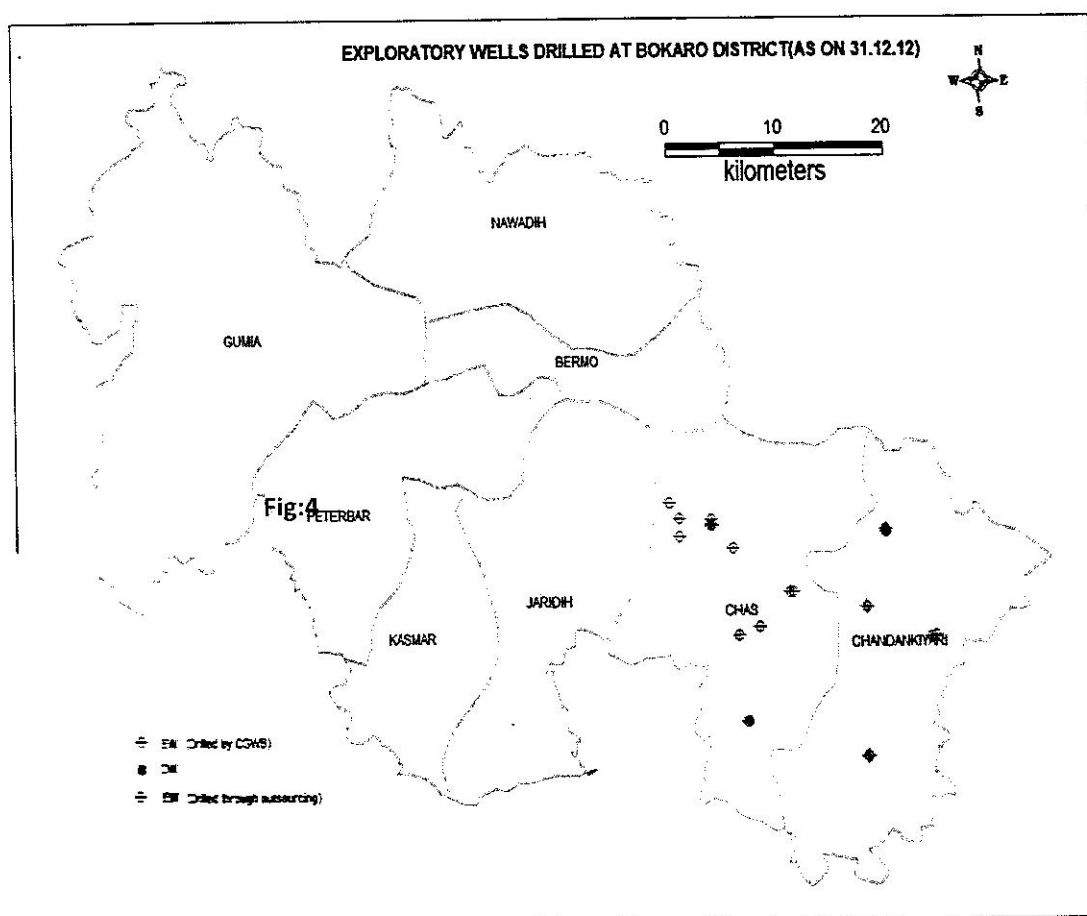
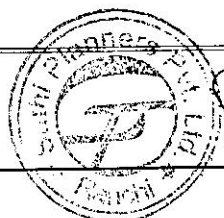


Fig. 9.2: Exploratory Wells Drilled at Bokaro District, Jharkhand

Depth to Water Level

CGWB has established 12 nos. of network of observation wells for monitoring of ground water level to know the behaviour of ground water regime in the district. These wells are monitored every year in January, May, August and November. During Pre-monsoon season in the district the minimum and maximum water level were observed as 5.3 m bgl (Pindrajoria) and 15.0 m bgl (Mahuda) respectively. The water level in northern part of the district shows more than 10 m bgl. The water level in Chas area is more than 10 m bgl. Water level varies from 5 to 8 m bgl in the





central and eastern part of the district.

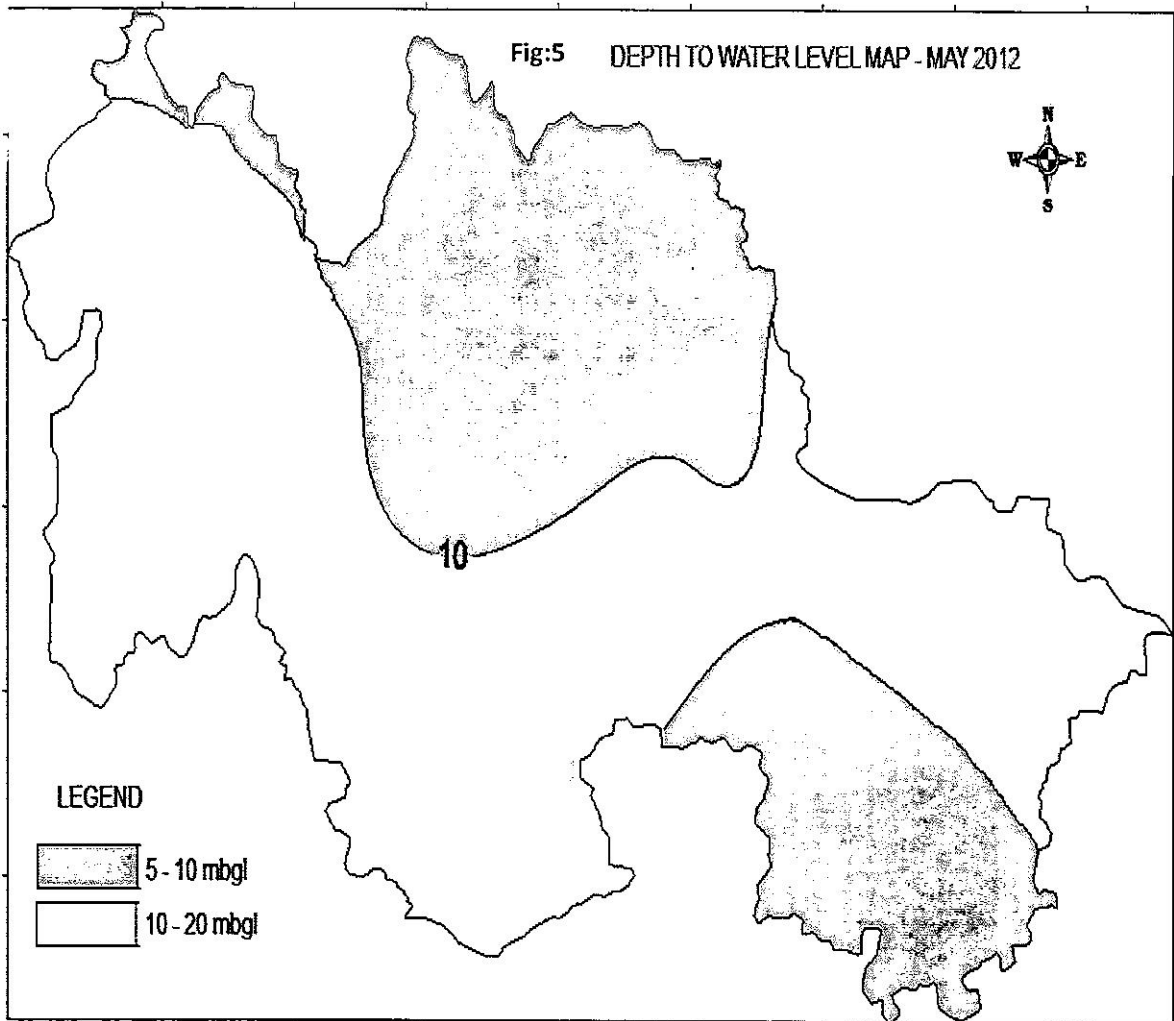
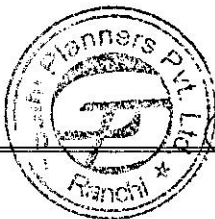


Fig. 9.3: Depth to Water Level Map (Pre-monsoon) of Bokaro District, Jharkhand

The water level during the Post-monsoon season of the district ranges 1.70 to 8.0 m bgl. The water level in northern, western and eastern part is within 5.0 m bgl. The water level in Chas area is 8 m bgl. Water level in the central and southern part of the district varies between 5 to 10 m bgl.



DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND

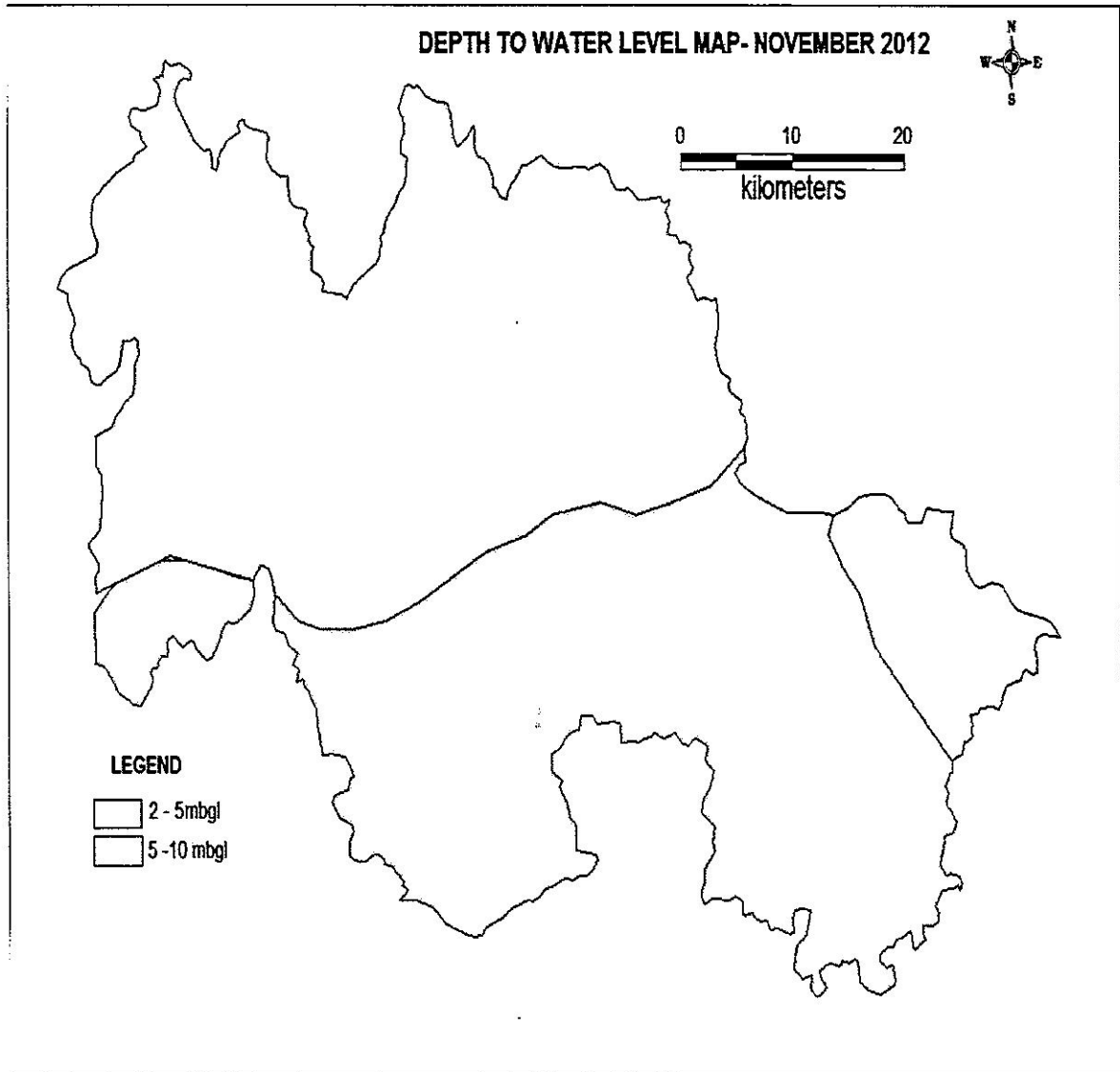
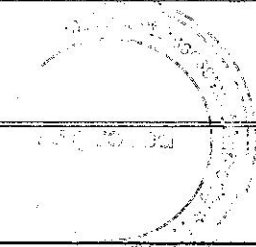
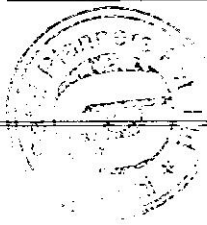


Fig. 9.4: Depth to Water Level Map (Post-monsoon) of Bokaro District, Jharkhand

Table 9.3: Pre and Post Monsoon Water Level Data of Bokaro district in 2012

Location	Pre Monsoon (in mbgl)	Post Monsoon (in mbgl)
Chas	12.65	8.00
Pindrayora	5.3	1.75
Chandrapura	5.14	1.70
Gomia	10.60	3.11
Petarbar	10.40	6.00
Jaina more	12.00	6.82
Tenughat	6.50	3.09
Nawadih	6.12	3.99



DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND



Water Level Trend

Rainy season is only recharge period in the Bokaro district. The maximum observations wells show rising trend in the district. These are the localized rising patches in the area. The pre and post monsoon observations at Jaina More, Chas is showing falling trend >0.2m/yr. The trend of Ground Water Level is tabulated in table below:

Table 9.4: Trend of Ground Water Level during Period 2002-2011

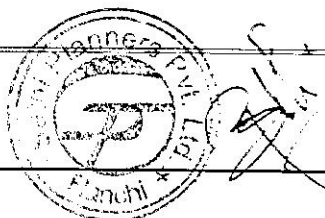
Location	Rise (Meter/Yr.)	Fall (Meter/Yr.)	Fall (Meter/Yr.)	
	Pre-monsoon		Post-monsoon	
Chandrapura	0.2	-	0.028	-
Phusro/Bermo	0.483	-		
Pindarjora	0.283	-	-	0.127
Chas	-	0.261	-	0.446
Jaina More	-	0.262	-	0.432
Gomia	-	0.179	-	0.233
Tenughat	0.15	-	0.035	-
Nawadih	0.246	-	0.231	-
Petarbar	0.113	-	0.108	-

Ground Water Resources

Table 9.5: Block wise Ground Water Resources of Bokaro District as on 31st March 2009

Block	Net Annual Ground water Availability	Existing Gross Ground Water Draft for Irrigation	Existing Gross Ground Water Draft for Domestic and Industrial Water Supply	Existing Gross Ground Water Draft For all Uses	Allocated for Domestic and Industrial Requirement (t supply up to next 25 years)	Ground Water Development (%)
Bermo	994.42	132.704	238.9	371.6	357.84	37.37
Chandrapura	282.75	235.248	315.5	550.8	472.62	19.48
Chas	522.24	1631.424	1188.3	3947.68	1779.92	75.52
Gomia	728.04	713.632	279.8	993.4	419.05	13.56
Jaridih	128.81	401.824	142.9	544.7	213.01	36.77
Kasmar	185.25	506.68	128.5	735.2	192.48	46.09
Nawadih	325.12	558.758	266.5	875.3	399.22	25.04
Petarwar	245.13	873.72	191.6	1065.3	286.96	43.32
TOTAL (ham)	2549.84	5203.09	2752.11	7956.10	4121.09	31.31

Ground Water Resources assessment has been carried out based on the recommendations of Central Water Estimation Committee Report 1997 (GEF, 1997). The assessment has been evaluated for all the blocks. All blocks of the districts falling under "Safe" Category except Chas which falls under semi critical category. The stage of Ground water development varies from



**STRUCT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND
MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND**



75.52 %.

Status of Ground Water Development:

Status of Ground Water Development

There is sufficient scope for shallow as well as deep bore wells in the district. Jharkhand State Government has constructed a number of bore wells to minimize the scarcity of drinking water problem. Central Ground Water Board has been drilled five bore wells up to 150 m bgl in the district. The discharge of bore wells ranges from less than 1 lps to 2.1 lps. The casing length varies from 6.07m to 19.40 m bgl. The static water level at Paddudih is maximum 6.30 m bgl.

Govt. of Jharkhand Drinking Water & Sanitation Department Status of T/Wells as on 01.04.2012					
District	Division	No. of T/wells as on 01.04.2012	Total Defunct. T/Well	No of Running T/wells	% Running Tube Well
Bokaro	Chas	10845	1541	9304	85.79
	Tenughat	7457	1060	6397	85.79

Groundwater Resources

As per the latest resource estimation carried out following GEC 97 methodology, the overall stage of ground water development in Bokaro district is 27% indicating sufficient scope of development. All blocks are under safe category. The reconciled figure is as under:

DYNAMIC (GROUND) WATER RESOURCES (2009) in mm.	
Annual Replenishable Ground Water Resources	25408.41
Net Annual Ground Water Draft	7956.10
Projected Demand for Domestic and Industrial uses up to 2025	4121.09
Stage of Ground Water Development	31 %

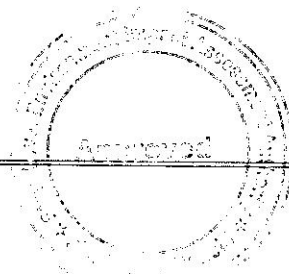
Groundwater Management Strategy

Ground Water Development: - The shallow and medium dug wells are suitable for extraction structures in the district. It is necessary for drinking as well as irrigation purpose. The stage of ground water development in the district is 31.31% only. Thus there is sufficient scope for development through dug well, shallow and medium bore wells. Construction of dug cum bore wells structure is also suitable for enhance the yield of dug well in respect of cost beneficial and economical. The Ground Water development varies in different places depending on the availability of favourable locations.

Potential availability for the Ground Water Development considering the Ground Water draft has been worked out as per norms of Ground Water Estimation Committee 1997 (GEC – 1997). The details of Ground Water recharge, estimation of annual Ground water availability, annual draft on net Ground water balance and stage of Ground water development has been evaluated. The total ground water draft for irrigation in the district is 5203.99 ham. The net annual ground water availability and the existing ground water draft for all uses is 25408.41 ham and 7956.10 ham respectively.



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DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND



Water Conservation and Artificial Recharge

The total irrigation potential created is 10039 hectares and potential utilized 6526 hectares only as per 4th MI census. During rainy season most of the rain water goes as runoff. At many places shortage of water observed in the district. Construction of water conservation structures will help to arrest run off, recharge the aquifer and retain the soil moisture. Contour bunding, check dam, gully plug and percolation tanks are suitable structures in the hard rock areas. In mines area, water can be stored in the pond.

A master plan for artificial recharge has been prepared by CGWB. The identification of the area suitable for artificial recharge has been done on the basis of depth of mean post-monsoon water level. The areas where the average water level of last 10 years is more than 5 m bgl in post-monsoon period (November) has been considered suitable for artificial recharge. The basin wise surface water availability with 60% dependability has been taken from the existing field condition. The surface water required at 60% efficiency for artificial recharge is 62.2743 MCM. Total volume of water required for artificial recharge up to the depth of 3 mbgl is 37.29 MCM. Total surplus runoff available after the recharging of the required volume of water is 37.9257 MCM. The distribution of surplus surface water resource generated within the district is given below.

Table 9.8:

Requirement of Surface Water Resources for Artificial Recharge to Ground Water

Name of District	Area Identified for Artificial Recharge (km ²)	Volume of unsaturated zone available for recharge	Total Volume of water that can be recharged (MCM)	Surface Water required for recharge at 60% efficiency (MCM)	Surplus available (MCM)	Total surplus runoff available (MCM)
Bokaro	339	1006.83	37.29	62.2743	100.2	37.9257

Table 9.9: Number of Structures for Artificial Recharge

District	Volume of water required at 60% efficiency (mcm)	Resource to be harnessed by				Estimated cost of structures in rupees (Lakhs)	
		Percolation tank		Nala Bund		Percolation tank @ Rs. 9.07 lakhs	Nala Bund @ 27.75 lakhs
		Vol MCM	Nos.	Vol MCM	Nos.		
Bokaro	62.2743	31.14	165	31.14	992	4578.750	3045.440

The volume of surface water considered for planning the artificial recharge is based on the surplus runoff availability and the space available for recharge. Based on the field situation, it has been considered that 50% storage will be through percolation tanks and 50% through Nala bunding in hard rock areas. For the percolation tank single filling capacity is 94 TCM. Considering 100% of single filling, the gross storage is 188 TCM. For Nala Bunding, single filling capacity of 12 TCM, the total storage will be 90 TCM based on 250% of multiple filling.

Groundwater Related Issues & Problems

During summer season the dug well dried away. The deeper ground water level has been observed in Bokaro District, Jharkhand. The ground water is contaminated with fluoride in two blocks. Iron is also found above desirable limit. Trace elements like Mn & Zn is found above permissible limit around industrial area.

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**DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND
MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND**



Mass Awareness & Training Activity

Mass Awareness Programs and Water Management Training Programs by Central Ground Water Board: NIL

Participation in exhibition fair: NIL

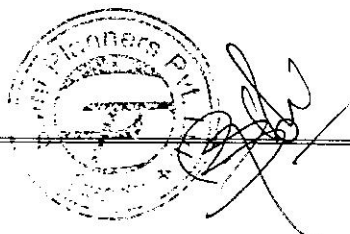
Presentation & Lectures delivered in Public Forum/Audio/T.V./Institution of Repute/ Grassroots Associations/NGO/Academic Institutions etc.: NIL

Area Notified by Central Groundwater Board/Central Groundwater Authority

As per the ground water resource assessment evaluated all blocks of the district falling under the safe category. Thus, the authority has not been notified any blocks.

Land Use: - A large area about 25% of the district are under forest. The Cultivable land are divided into two categories - Low lands and uplands. Block wise statistical data reveals that only 29% of the total geographical area is cultivable. The highest percentage of cultivable area is found in Chandankiyari and Lowest being in Gomia block. The gross irrigated area is 14543 Ha.

(Source - cgwb-Bokaro)





10. RAINFALL AND CLIMATE OF THE DISTRICT

10.1 Rainfall & Humidity:

Rainfall: Bokaro area receives more rainfall which attracts clouds and brings rainfall to the area. Rainfall is the principal method of groundwater recharge to ground water. Southwest monsoon brings rainfall to this area during the months of June to October mainly. Normal data of the Bokaro IMD observatory indicates average 1363.57 mm of rainfall and maximum rain fall is 1669.58 mm.

The average rainfall which was observed in Bokaro in year 2016-2018 is presented below in the form of Table 10.1:

Month	Jan 2016	Feb 2016	March 2016	April 2016	May 2016	June 2016
Average Rainfall	3.60	1.33	5.04	38.60	31.19	95.24
Month	July 2016	Aug 2016	Sept 2016	Oct 2016	Nov 2016	Dec 2016
Average Rainfall	201.31	329.3	206.70	17.97	0.0	0.0
Month	Jan 2017	Feb 2017	March 2017	April 2017	May 2017	June 2017
Average Rainfall	12.9	0.00	6.00	3.00	25.00	44.5
Month	July 2017	Aug 2017	Sept 2017	Oct 2017	Nov 2017	Dec 2017
Average Rainfall	534.4	267.8	213.6	175.8	8.1	0.00
Month	Jan 2018	Feb 2018	March 2018	April 2018	May 2018	June 2018
Average Rainfall	0.00	9.3	2.9	100.1	47.1	163.5
Month	July 2018	Aug 2018	Sept 2018	Oct 2018	Nov 2018	Dec 2018
Average Rainfall	284.5	474.9	238.4	20.6	0.7	66.8

(Source: District Statistical Office, Bokaro)

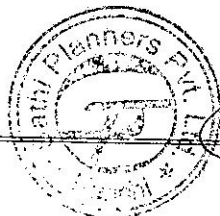
10.1.1 Relative Humidity, Wind Speed & Wind Direction

Relative humidity is generally lower in the afternoons than in the mornings, except in the monsoon months when there are little differences. The winter months are the driest with humidity as low as 10 to 20% in the afternoon. The mean annual humidity is nearby 60 %.

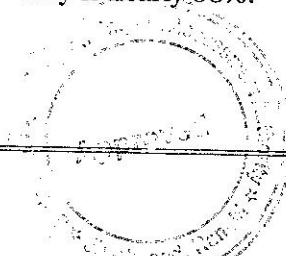
Winds: Winds are light to moderate during the winter and summer months, the speed being higher in the afternoons. In association with thunder storms during March to May and during the monsoon season when depressions pass west word across the central parts of the country, the area experiences strong gusty winds. The directions from which winds blow are variable especially during the monsoon season. Predominant wind direction is from south-west.

10.2 Climatic Condition

The climate of Bokaro district is humid and sub-tropical. It is characterized by hot and dry summer from March to October and Cold winter from November to February. Humidity is high from July to September. The mean annual humidity is nearly 60%.



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STRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND



• WINTERS

Winter in the city begins in December and continues till February. The average day temperature during the season hovers around 25°C, while the minimum settles close to 8°C. Winter is the best month to visit the place.

• SUMMERS

March to June is the summer season for Bokaro. During this period the weather in the city is hot with day temperatures touching 40°C at times. On an average the maximum hovers around 37 degrees Celsius.

• MONSOONS

Monsoon in Bokaro is observed from June to September. The city experiences heavy rainfall during the season, with average rainfall recording 1000 mm. July is the rainiest month for the city, with monthly average rainfall of 334 mm.

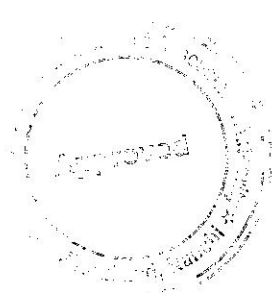
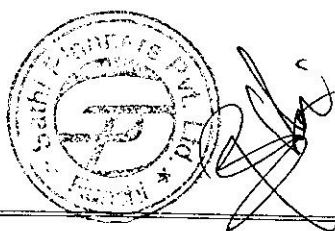
10.2.1 Temperature

The summer season starts from the month of March with hot and humid conditions and ends in June. The maximum highest temperature varies from 46°C in the month of May and June while minimum temperature varies from 4°C to 7°C during December and January. Below table mentions the temperature variation throughout the year -

Table 10.2: Monthly average temperature distribution of Bokaro District: (in °C & °F)

	January	February	March	April	May	June	July	August	September	October	November	December
Avg. Temperature °C (°F)	16.8 °C (62.2) °F	20.8 °C (69.5) °F	25.9 °C (78.6) °F	30.4 °C (86.7) °F	31.5 °C (88.7) °F	30 °C (86) °F	27.4 °C (81.3) °F	27.1 °C (80.7) °F	26.7 °C (80) °F	24.8 °C (76.7) °F	21.2 °C (70.2) °F	17.5 °C (63.5) °F
M. Temperature °C (°F)	9.7 °C (49.4) °F	13.4 °C (56.1) °F	17.8 °C (64) °F	22.4 °C (72.4) °F	25.3 °C (77.6) °F	26.2 °C (79.1) °F	25.1 °C (77.1) °F	24.7 °C (76.4) °F	23.9 °C (75) °F	20.4 °C (68.7) °F	15.2 °C (59.3) °F	10.9 °C (51.6) °F
Max. Temperature °C (°F)	23.9 °C (75.1) °F	28.1 °C (82.6) °F	33.5 °C (92.2) °F	38.1 °C (100.6) °F	38.2 °C (100.7) °F	34.7 °C (94.5) °F	30.8 °C (87.4) °F	30.4 °C (86.8) °F	30.3 °C (86.5) °F	29.5 °C (85.1) °F	27.4 °C (81.3) °F	24.4 °C (75.8) °F
Precipitation / Rainfall mm (in)	13 (0)	19 (0)	18 (0)	18 (0)	63 (2)	219 (8)	296 (11)	273 (10)	219 (8)	70 (2)	10 (0)	9 (0)
Humidity(%)	62%	54%	41%	36%	50%	68%	64%	65%	64%	77%	66%	65%
Rainy days (d)	2	2	2	4	8	14	21	21	16	6	1	1
avg. Sun hours (hours)	9.1	9.7	10.6	10.9	10.7	9.6	7.7	7.2	7.4	8.7	9.2	8.9

(Source: <https://en.climate-data.org/asia/india/jharkhand/bokaro-969182/>)



**DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR
BOKARO DISTRICT OF JHARKHAND**



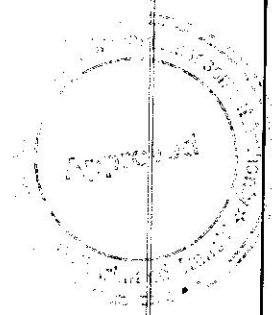
11. DETAILS OF EXISTING/WORKING MINING LEASES IN THE DISTRICT

Sl. No.	Name of the Mineral	Name of the Lessee	Address & Contact No of Lessee	Mining Lease Order No. & Date	Area of Mining Lease (Acres/Ha.)	Period of Mining Lease			Period of Mining Lease (1 st /2 nd ...renewal
						7	8	9	
1	Stone	3 M/s Bhole Minerals of Shri Rajesh Kumar Singh S/o - Shri Laxman Singh	4 Q. No. - 2134, Street -4 Sector - 4/A Bokaro Steel City Dist. - Bokaro	5 Letter No. - 251, dated 28/01/2020	6 5.57/2.25	7 06.03.2020	8 05.03.2025	9 N.A	10 N.A
2	Stone	M/s Jai Maa Enterprises Crusher & Quarry of Shri Om Prakash Singh S/o Shri Ram Singhasan Singh	Q. No. - 262 Sector 1/B Bokaro Steel City Dist. - Bokaro	Letter No. - 293, dated 10/02/2020	3.00/1.22	07.08.2020	06.08.2030	N.A	N.A
3	Stone	Shri Usman Ansari S/o - Late Yunusuddin Ansari	Village - Lalpur P.O. - Kumirdova P.S. - Chandankiyari Dist. - Bokaro	Letter No. - 979, dated 15/07/2014	0.97/0.39	19.07.2014	18.07.2024	N.A	N.A
4	Stone	M/s Nayak Construction of Shri Subhash Chandra Nayak S/o - Shri Bhushan Chandra Gorai	Village + P.O. - Siyaljori Dist. - Bokaro	Letter No. - 1255, dated 31/03/2018	7.02/2.84	25.04.2018	24.04.2023	N.A	N.A
5	Stone	M/s Trimurti Quarry & Crusher of Partner 1: Shri Birendra Kumar Pandey	Village + P.O. - Taranga P.S. - Chandrapura Dist. - Bokaro	Letter No. - 1284, dated 02/04/2016	3.50/1.42	12.12.2016	11.12.2026	N.A	N.A

**DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR
BOKARO DISTRICT OF JHARKHAND**



6	Stone	S/o Late Harihar Prasad Pandey Partner 2: Shri Jagdish Prasad Mahto S/o Late Deglal Mahto Partner 3: Shri Pravin Kumar Pandey S/o Late Shanti Prasad Pandey	Village + P.O. - Telo P.S. - Chandrapura Dist. - Bokaro	Letter No. - 295, dated 03/02/2020	2-505/1.01	06.03.2020	05.03.2030	N.A	N.A
7	Quartzite	M/s Kirty Enterprises of Partner 1: Shri Yogendra Prasad S/o Shri Umacharan Mahto Partner 2: Shri Suresh Prasad S/o Shri Jagdish Mahto Partner 3: Shri Arjun Prasad S/o Shri Gulabchand Kumhar Shri Pankaj Kumar S/o Shri Kashinath Singh	House No. - 24A Village + P.O. - Bhaski P.S. - Jaridih Dist. - Bokaro		0.76/0.31	04.07.2014	03.07.2024	N.A	N.A
8	Quartzite	Shri Rakesh Kumar S/o - Shri Arun Kumar	Village - Ramnagar Colony P.O. + P.S. - Chas Dist. - Bokaro		5.00/2.02	21.03.2018	20.03.2023	N.A	N.A



District Mining Officer

**DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR
BOKARO DISTRICT OF JHARKHAND**



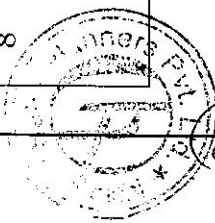
Sl. No.	Address of the Mining Lease	Status/Non-working/Temp. Working for dispatch	Captive/Non-Captive	Obtained Environmental Clearance (Yes/No), If Yes, Letter No. with date of grant of EC	Location of the Mining Lease (Latitude & Longitude)	Method of Mining (Opencast/Underground)
1	11 Mouza Champur P.S. Bahadli Circle Chas Khata No. 02 Plot No. 91/(P)	12 Working	13 Non-Captive	14 (Yes), EC Letter No. - 704, dated 08/11/2019	15 23°35'40.90" to 23°35'47.30" N 86°03'22.30" to 86°03'28.50" E	16 Opencast
2	Mouza Palladhi P.S. Chas(M) Circle Chas Khata No. 40 Plot No. - 106, 108 & 109(P)	Working	Non-Captive	(Yes), EC Letter No. - 618, dated 04/11/2019	23°41'05.70" to 23°41'10.40" N 86°15'54.60" to 86°15'58.90" E	Opencast
3	Mouza - Lalpur Circle + P.S. - Chandankiyari Plot No. - 254 Plot No. - 1479	Working	Non-Captive	(Yes), EC Letter No. - 290, dated 28/02/2014	23°17'34.65" to 23°17'37.84" N 86°32'35.20" to 86°32'37.05" E	Opencast
4	Mouza - Suryadhi P.S. - Siyaljori Circle - Chandankiyari Khata No. - 19 Plot No. - 655(P), 691, 694(P), 695(P)	Working	Non-Captive	(Yes), EC Letter No. - 304, dated 23/03/2017	23°37'17.35" to 23°37'27.10" N 86°18'31.80" to 86°18'38.30" E	Opencast
5	Mouza - Taranga Circle + P.S. - Chandrapura Khata No. - 101 Plot No. - 1220(P)	Working	Non-Captive	(Yes), EC Letter No. - 2266, dated 30/12/2015	23°47'24.66" to 23°47'29.23" N 86°09'05.32" to 86°09'08.16" E	Opencast

District Mining

DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING IN BOKARO DISTRICT OF JHARKHAND



Sl. No.	Mouza - Telo Circle + P.S. - Chandrapura Khata No. - 159, 81, 50, 149 Plot No. - 1316, 1317, 1322, 1324(P), 1319, 1320, 1321	Working	Non-Captive	(Yes), EC Letter No. - 709, dated 08/11/2019	23°48'57.30" to 23°49'02.40" N 86°06'31.20" to 86°06'35.90" E	Opencast
6	Mouza - Barai Circle + P.S. - Nawadih Khata No. - 31 Plot No. - 736	Working	Non-Captive		23°51'34.00" to 23°51'37.12" N 85°58'33.74" to 85°58'35.30" E	Opencast
7	Mouza - Partanr Circle - Chas P.S. - Siyaljori Khata No. - 86 Plot No. - 1176(P)	Working	Non-Captive		23°38'09.85" to 23°38'17.63" N 86°15'02.36" to 85°15'09.02" E	Opencast



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District Mineral Survey Office
Bokaro



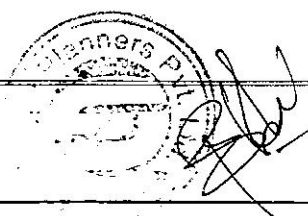
**12. DETAILS OF ROYALTY OR REVENUE RECEIVED IN
LAST THREE YEARS**

	Financial Year	Royalty (in Rupees)
1	2019-20	434.05 Lakhs
2	2020-21	589.30 Lakhs
3	2021-22	549.32 Lakhs
4	2022-23 (Up to Dec. 022)	461.69 Lakhs

जिला खनन कार्यालय, बोकारो।

बोकारो जिलान्तर्गत विगत 03 वर्षों में पत्थर खनिज के वास्तविक राजस्व संग्रहण प्रतिवेदन निम्न प्रकार है :-

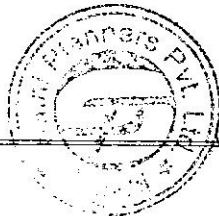
वित्तीय वर्ष	समाहरण
2019-20	434.05 लाख रू०
2020-21	589.30 लाख रू०
2021-22	549.32 लाख रू०
2022-23 (दिसम्बर, 22 तक)	461.69 लाख रू०





**13. DETAILS OF PRODUCTION OF MINOR MINERALS
IN LAST THREE YEARS**

Sl. No.	Year	Production (in Cft.)
1	2019-20	
2	2020-21	
3	2021-22	



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14. MINERAL MAP OF THE DISTRICT

14.1 Mineral Wealth

The Jharkhand State is known for its rich mineral resources. Bokaro district is a part of the Chotanagpur Plateau. It is highly undulating and hilly all over the district. The regional slope of the district is towards east and controlled by the alignment of the tributaries of Damodar River. The hill ranges trending WNW-ESE. The average elevation of the undulating pediplain ranges from 200-350 m above MSL. The highest hill prominent block is Gomia. The northern and western part of the district having hilly ranges. Chas and Chandankiyari are low upland where cultivation is practiced. Geologically, the area is comprised with Archaean Granites and Gneisses. In the uplands, considerable thickness of laterite of Pleistocene age is found in the granite and gneisses tracts. Alluvium of recent to sub-recent age is found in the river valley. The main mineral resources found in the Bokaro district are Coal, Limestone, Coal Bed Methane (CBM), Quartzite, General Stones, Brick Clays & River sand. A generalized mineral map of Bokaro District, Jharkhand is given below.

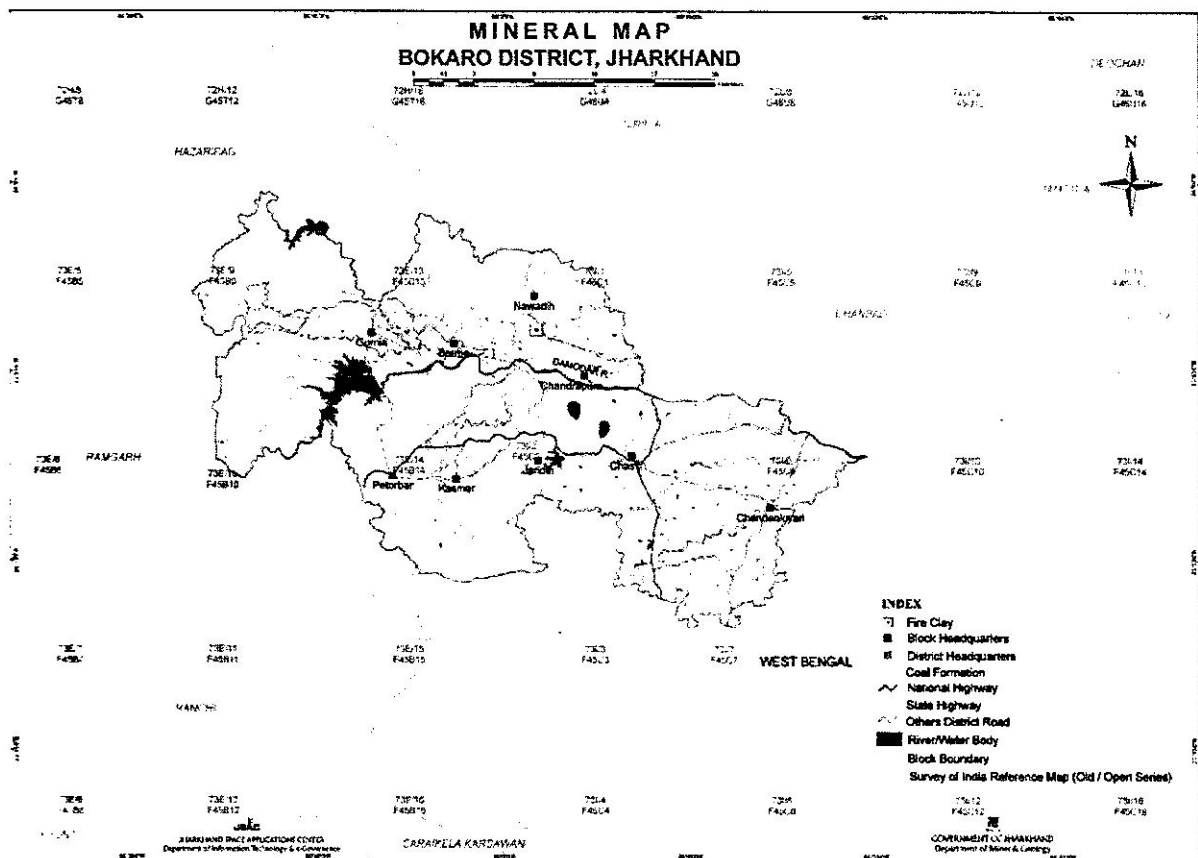
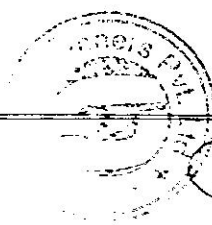
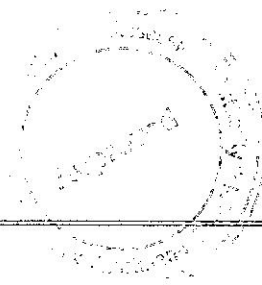


Fig. 14.1: Mineral Map of Bokaro District

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



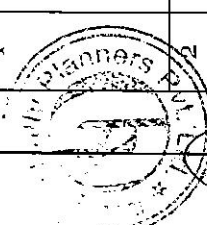
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15. LIST OF LETTER OF INTENT HOLDERS IN THE DISTRICT

Sl. No.	Name of the Mineral	Name of the Lessee	Address & Contact No. of Letter of Intent Holder	Letter of Intent Grant Order No. & Date	Area of Mining Lease to be allotted (Acres)	Validity of LoI	Use (Captive/ Non-Captive)	Location of the Mining lease (Latitude & Longitude)
1	2	3	4	5	6	7	8	9
1	Stone	Shri Mithilesh Kumar Mahito S/o - Shri Shukhdeo Mahato	Village Balrampur P.O. - Chilgadda P.S. - Jaridih Dist. - Bokaro	293/Khanan, Date 03/02/2020	Mouza - Balrampur P.S. - Jaridih Khata No. - 41 Plot No. - 37 Area - 1.85 Acres	-	Non-Captive	Mouza - Balrampur 23°35'00.80" to 23°35'04.82" N 86°01'17.37" to 86°01'23.56" E
2	Stone	Shri Shahdeo Saw S/o - Late Lamtu Saw	Village + P.O. - Dantu Thana - Kasmar Dist. - Bokaro	2954/Khanan, Date 31/10/2019	Mouza - Utasara P.S. - Peterwar Khata No. - 50 Plot No. - 1115, 1116, 1117, 1118 Area - 4.11 Acres	-	Non-Captive	Mouza - Utasara 23°40'10.95" to 23°40'16.10" N 85°52'50.55" to 85°52'56.57" E
3	Stone	M/s Santhal Enterprises of Shri Dilip Kumar Yadav S/o - Late Guru Prasad Yadav	Quarter No. - 79 Sector - 4 F Bokaro Steel City Dist. - Bokaro	2950/Khanan, Date 26/10/2019	Mouza - Chainpur P.S. - Balidih Khata No. - 67, 08, 04 Plot No. - 154, 159, 162, 163 Area - 5.37 Acres	-	Non-Captive	Mouza - Chainpur 23°35'56.55" to 23°35'47.31" N 86°03'22.63" to 86°03'17.62" E
4	Stone	M/s S. L. Enterprises of Partner 1: Shri Lalji Sahu S/o - Shri Govind Nayak Partner 2:	Office at - Village + P.O. - Telo P.S. - Chandrapura Dist. - Bokaro	1736/Khanan, Date 17/07/2020	Mouza - Parasbani P.S. - Nawadih Khata No. - 25 Plot No. - 459 Area - 3.26 Acres	-	Non-Captive	Mouza - Parasbani 23°50'10.21" to 23°50'4.84" N 86°06'53.98" to 86°06'53.27" E



(Signature)

District Mining Officer
Bokaro

DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND



5	Stone	Shri Sarfaraj Ahmed S/o - Shri Sahabuddin Khan M/s Jharkhand Stone Works of Partner 1: Shri Radha Nath Soren S/o - Late Darbari Manjhi Partner 2: Shri Somar Nayak S/o - Shri Dashrath Nayak	Partner 1: Village + P.O. - Utasara P.S. - Perterwar Dist. - Bokaro Partner 2: Village + P.O. - Dantu P.S. - Kasmar Dist. - Bokaro	2955/Khanan, Date - 31/10/2019	Mouza - Phutkadih P.S. - Peterwar Khata No. - 25 Plot No. - 459 Area - 3.26 Acres	-	Non-Captive	Mouza - Phutkadih 23°41'22.06" to 23°41'26.22" N 85°52'11.15" to 85°52'17.55" E
6	Stone	M/s Star Construction of Partner 1: Shri Usman Ansari S/o - Late Yunusuddin Ansari Partner 2: Shri Amit Kumar Soni S/o - Shri Visheshwar Prasad Soni	Partner 1: Village - Lalpur P.O. - Kumirdova P.S. - Chandankiyari Dist. - Bokaro Partner 2: Village - Ramnagar Colony P.O. + P.S. - Chas Dist. - Bokaro	2956/Khanan, Date - 31/10/2019	Mouza - Girdhartanr P.S. - Pindrajora Khata No. - 1 & 18 New Khata No. - 1 & 22 Plot No. - 28(P), 23, 24, 25, 26, 27(P) Area - 7.30 Acres	-	Non-Captive	Mouza - Girdhartanr 23°33'51.76" to 23°33'59.11" N 86°11'04.11" to 85°10'56.48" E
7	Stone	Md. Naim Ansari S/o - Late Hazi Kasim Ali Ansari	Village - Naudiha P.O. - Banstoda P.S. - Chandankiyari Dist. - Bokaro	1631/Khanan, Date - 22/06/2020	Mouza - Bharajori P.S. - Chandankiyari Khata No. - 339 Plot No. - 1946(P) Area - 1.50 Acres	-	Non-Captive	Mouza - Bharajori 23°30'18.47" to 23°30'20.72" N 86°20'16.97" to 86°20'22.82" E



DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND

Sl. No.	Stone	M/s. Name of Mineral	Village - Armo	2957/Khanan, Date -	Mouza - Armo	Non-Captive	Mouza Armo
8	Stone	M/s. Khurshon Stone Mines of Shri Rulan Lal Yadav S/o Shri Gopal Yadav	Basti P.O. - Govindpur P.S. - BTPS Dist. - Bokaro	31/10/2020	Mouza - Armo P.S. - BTPS Khata No. - 12 Plot No. - 54 Area - 1.52 Acres	Non-Captive	23°50'34" N to 23°50'36" N 85°50'52" E to 85°50'55" E
9	Stone	M/s. Tirupati Stone Mines of Shri Upendra Nath Manjhi S/o - Shri Binod Manjhi	Village + P.O. - Jainamore P.S. - Jaridih Dist. - Bokaro	1737/Khanan, Date - 17/07/2020	Mouza - Nawadih P.S. - Peterwar Khata No. - 110, 111 Plot No. - 630(P), 658(P) Area - 4.00 Acres	Non-Captive	Mouza - Nawadih 23°41'20.39" to 23°41'28.65" N 85°59'43.46" to 85°59'50.12" E
10	Stone	M/s. Jyoti Minerals of Shri Mohan Lal Jain S/o - Late Shri Ram Jain	At C/38, City Centre, Sector 4 P.S. - BTPS Dist. - Bokaro	1660/Khanan, Date - 27/06/2020	Mouza - Keliyadabar P.S. - Pindrajora Khata No. - 108 Plot No. - 1746 Area - 4.46 Acres	Non-Captive	Mouza - Keliyadabar 23°30'53.51" to 23°31'00.94" N 86°13'35.79" to 86°13'40.94" E
11	Stone	M/s. Jyoti Minerals of Shri Mohan Lal Jain S/o - Late Shri Ram Jain	At C/38, City Centre Sector 4 P.S. - BTPS Dist. - Bokaro	1743/Khanan, Date - 22/07/2020	Mouza - Nawadih P.S. - Peterwar Khata No. - 110 Plot No. - 632, 633, 634, 635, 637, 638, 639, 641, 642, 644, 645, 647, 648, 649, 653, 654, 651 Area - 5.25 Acres	Non-Captive	Mouza - Nawadih 23°41'25.19" to 23°41'34.42" N 85°59'47.16" to 85°59'53.99" E
12	Stone	Shri Bhagwan Singh S/o - Late Meghu Singh	Village - Bermo Seem P.O. + P.S. - Bermo Dist. - Bokaro	147/Khanan, Date - 18/01/2020	Mouza - Pichhri P.S. - Peterwar Khata No. - 81 Plot No. - 3071(P), 3076 Area - 2.24 Acres	Non-Captive	Mouza - Pichhri 23°44'36.01" to 23°44'40.81" N 86°02'31.53" to 86°02'36.61" E



**DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR
BOKARO DISTRICT OF JHARKHAND**

13	Stone	M/s Samleshwari Minerals of Shri Laxmi Narayan Singh S/o Late Indra Narayan Singh	Village + P.O. - Jainamore P.S. - Jaridih Dist. - Bokaro	2086/Khanan, Date - 25/09/2020	Mouza - Khuntri P.S. - Jaridih Khata No. - 18, Plot No. - 226(P) Area - 5.00 Acres	-	Non-Captive	Mouza - Khuntri 23°43'36.21" to 23°43'30.33" N 86°02'18.61" to 86°02'27.55" E
14	Stone	M/s Jharkhand Stone Works of Partner 1: Shri Radha Nath Soren S/o - Late Darbari Manjhi Partner 2: Shri Somar Nayak S/o - Shri Dashrath Nayak	Partner 1: Village + P.O. - Utasara P.S. - Peterwar Dist. - Bokaro Partner 2: Village + P.O. - Dantur P.S. - Kasmar Dist. - Bokaro	4132/Khanan, Date - 26/08/2016	Mouza - Phutkadih P.S. - Peterwar Khata No. - 01 Plot No. - 203(P) Area - 2.00 Acres	-	Non-Captive	Mouza - Phutkadih 23°41'19.71" N 85°51'26.21" E
15	Stone	M/s Savitri Enterprises of Partner 1: Shri Prakash Mishra S/o - Shri Mukesh Mishra Partner 2: Shri Duryodhan Mahto S/o - Late Kailash Mahto Partner 3: Shri Mumtaz Alam S/o - Md. Samsuddin	Partner 1: Village + P.O. - Pichhri P.S. - Peterwar Dist. - Bokaro Partner 2: Village - Jamtara P.O. - Dumri P.S. - Dumri Dist. - Giridih Partner 3: Village - Jamtara P.O. - Dumri P.S. - Dumri Dist. - Giridih	276/Khanan, Date - 05/02/2021	Mouza - Angwaali P.S. - Peterwar Khata No. - 180 Plot No. - 2206, 2207, 2208, 2177, 2176, 2200, 2201, 2203, 2204, 2205, 2216, 2217 Area - 6.37 Acres	-	Non-Captive	Mouza - Angwaali 23°41'33.8" to 23°41'44.6" N 86°59'57.3" to 86°00'10.35" E

District Mining Officer
Bokaro

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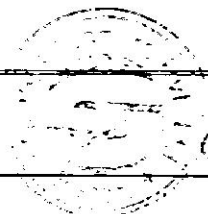
DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND



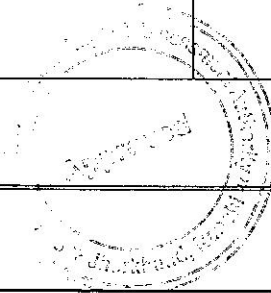
16. TOTAL MINERAL RESERVE AVAILABLE IN THE DISTRICT

At present, based on existing running mining leases and available mining plans (27 registered mining leases), a total of 12292708 m³/33730314 Tonnes of mineable reserve of Stone are found in the Bokaro district. There are 19 nos. of potential Stone deposit have been identified in Bokaro district. Based on reconnaissance survey, it has been also assessed that about 6070000 m³/10389000 Tonnes of mineable reserve of Stone deposit can be mined to meet the demand-supply gap of district.

Sl. No.	Existing/Working Mining Lease Details	Mineable Reserve	
		(in m ³)	(in Tonnes)
1	Mouza – Chainpur	168162	454037
	P.S. – Balidih		
	Circle - Chas		
	Khata No. – 02		
	Plot No. – 947(P)		
	Area - 5.57 Acres/2.25 Ha.		
2	Mouza – Pailadih	233775	631193
	P.S. – Chas(M)		
	Circle – Chas		
	Khata No. – 40		
	Plot No. – 106, 108 & 109(P)		
	Area - 3.00 Acres/1.22 Ha.		
3	Mouza – Lalpur	54000	145800
	Circle		
	P.S. – Chandankiyari		
	Plot No. – 254		
	Plot No. - 1479		
	Area - 0.97 Acres/0.39 Ha.		
4	Mouza – Suryodih	248711	671519
	P.S. – Sijaljori		
	Circle – Chandankiyari		
	Khata No. – 10		
	Plot No. – 655(P), 661, 694(P), 695(P)		
	Area - 7.02 Acres 2.84 Ha.		
5	Mouza – Taranaa	114480	309096
	Circle – Chandrapura		
	P.S. – Chandrapura		
	Khata No. – 101		
	Plot No. – 1220 P.		



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DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND

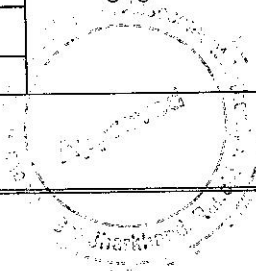


	Area - 3.50 Acres 1.42Ha.		
6	Mouza - Te'o	73360	198072
	Circle - P.S. - Chandrapura		
	Khata No. - 159, 81, 50, 149		
	Plot No. - 1316, 1317, 1322, 1324(P), 1319, 1320, 1321		
	Area - 2.505 Acres/1.01 Ha.		
7	Mouza - Barai	20545	55470
	Circle + P.S. - Nawadih		
	Khata No. - 31		
	Plot No. - 736		
	Area - 0.76 Acres/0.31 Ha.		
8	Mouza - Partanr	46631	125905
	Circle - Chas		
	P.S. - Siyaljori		
	Khata No. - 86		
	Plot No. - 1176(P)		
	Area - 5.000 Acres/2.02 Ha.		
TOTAL		959664	2591092

Sl. No.	'LoI Issued' Mining Lease Details	Mineable Reserve	
		(in m ³)	(in Tonnes)
1	Mouza - Balrampur	55166	148949
	P.S. - Jaridih		
	Khata No. - 41		
	Plot No. - 37		
	Area - 1.85 Acres		
2	Mouza - Utasara	197029	531978
	P.S. - Peterwar		
	Khata No. - 50		
	Plot No. - 1115, 1116, 1117, 1118		
	Area - 4.11 Acres		
3	Mouza - Chainpur	565018	1525549
	P.S. - Balidih		
	Khata No. - 67, 08, 04		
	Plot No. - 154, 159, 162, 163		
	Area - 5.37 Acres		



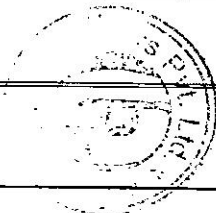
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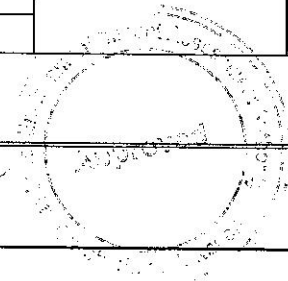
DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND



1	Mouza - Parasbani	330449	892213
	P.S. - Nawadih		
	Khata No. - 10 & 08		
	Plot No. - 2638 & 2639(P)		
	Area - 4.02 Acres		
5	Mouza - Phutkadih	96328	260086
	P.S. - Peterwar		
	Khata No. - 25		
	Plot No. - 459		
	Area - 3.26 Acres		
6	Mouza - Girdhartanr	888889	2400000
	P.S. - Pindrajora		
	Khata No. - 1 & 18		
	New Khata No. - 1 & 22		
	Plot No. - 28(P), 23, 24, 25, 26, 27(P)		
Area - 7.30 Acres			
7	Mouza - Bharajori	58400	157680
	P.S. - Chandankiyari		
	Khata No. - 339		
	Plot No. - 1946(P)		
	Area - 1.50 Acres		
8	Mouza - Armo	22234	60032
	P.S. - BTPS		
	Khata No. - 12		
	Plot No. - 54		
	Area - 1.52 Acres		
9	Mouza - Nawadih	66907	180650
	P.S. - Peterwar		
	Khata No. - 110, 111		
	Plot No. - 630(P), 658(P)		
	Area - 4.00 Acres		
10	Mouza - Keliyadabar	34277	632548
	P.S. - Pindrajora		
	Khata No. - 108		
	Plot No. - 1746		
	Area - 4.46 Acres		



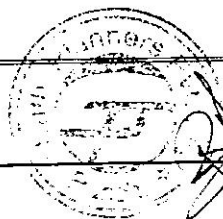
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DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND



11	Mouza - Nawadih	83403	225187
	P.S. - Peterwar		
	Khata No. - 110		
	Plot No. - 632, 633, 634, 635, 637, 638, 639, 641, 642, 644, 645, 647, 648, 649, 653, 654, 651		
	Area - 5.25 Acres		
12	Mouza - Pichhri	63690	171965
	P.S. - Peterwar		
	Khata No. - 81		
	Plot No. - 3071(P), 3076		
	Area - 2.24 Acres		
13	Mouza - Khuntri	281977	761337
	P.S. - Jaridih		
	Khata No. - 18, Plot No. - 226(P)		
	Area - 5.00 Acres		
14	Mouza - Phutkadih	65818	177709
	P.S. - Peterwar		
	Khata No. - 01		
	Plot No. - 203(P)		
	Area - 2.00 Acres		
15	Mouza - Angwaali	456385	1232239
	P.S. - Peterwar		
	Khata No. - 180		
	Plot No. - 2206, 2207, 2208, 2177, 2176, 2200, 2201, 2203, 2204, 2205, 2216, 2217		
	Area - 6.37 Acres		
16	Mouza - Gangpur	147505	398263
	P.S. - Mahuatand		
	Khata No. - 35, 07		
	Plot No. - 335, 337, 338		
	Area - 3.44 Acres		
17	Mouza - Khuntri	98314	265448
	P.S. - Jaridih		
	Khata No. - 13		
	Plot No. - 196(P)		
	Area - 2.50 Acres		

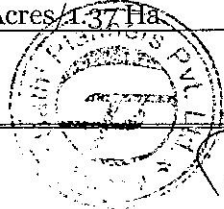


DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND

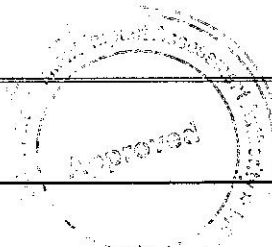


18	Mouza – Tantri	322905	871844
	Tola – Nutandih		
	P.S. – Jaridih		
	Khata No. – 145, 147 & 148		
	Plot No. – 22(145), 3, 5, 6(P), 8(P), 20(P), (147) & 19(P) (148)		
	Area – 4.21 Acres		
19	Mouza – Lakhipur	7498350	20245545
	P.S. – Chandankiyari		
	Khata No. – 35 & 36		
	Plot No. – 55, 56, 57, 60, 61, 41 to 47, 50, 62 to 69 & 73		
	Area – 4.80 Acres		
TOTAL		11333044	31139222

Sl. No.	Identified Potential Stone Deposit Details	Mineable Reserve	
		(in m ³)	(in Tonnes)
1	Mouza – Taranga	230000	621000
	P.S. – Chandrapura		
	Khata No. – 02		
	Plot No. – 1425, 1427, 1429		
	Area – 2.85 Acres/1.15 Ha.		
2	Mouza – Patki	290000	783000
	P.S. – Peterwar		
	Khata No. - 24		
	Plot No. – 96		
	Area – 3.58 Acres/1.45 Ha.		
3	Mouza – Bogla	124000	334800
	P.S. – Chandankiyari		
	Khata No. – 99		
	Plot No. – 3676, 3735(P), 3734(P)		
	Area – 1.535 Acres/0.62 Ha.		
4	Mouza – Chanpi	274000	739800
	P.S. – Peterwar		
	Khata No. – 65, 49		
	Plot No. – 2528, 2529		
	Area – 3.40 Acres/1.37 Ha.		



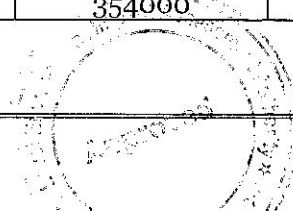
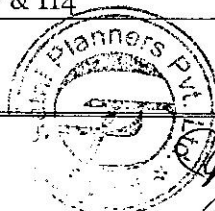
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DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND



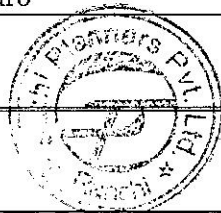
5	Mouza – Amainagar	270000	729000
	P.S. – Chandankiyari		
	Khata No. – 112		
	Plot No. – 1505(P)		
	Area – 3.33 Acres/1.35 Ha.		
6	Mouza – Khuntri	372000	1004400
	P.S. – Jaridih		
	Khata No. – 66 & 24		
	Plot No. – 2849, 2850 (P), 2853, 2854, 2856, 2874		
	Area – 4.60 Acres/1.86 Ha.		
7	Mouza – Chainpur	424000	1144800
	P.S. – Balidih		
	Khata No. – 02		
	Plot No. - 943		
8	Mouza – Belunja	414000	1117800
	P.S. – Chas(M)		
	Khata No. – 283, 101		
	Plot No. – 830, 831, 832, 834, 835, 843, 844, 845, 846, 809, 836		
	Area – 5.13 Acres/2.07 Ha.		
9	Mouza – Tantri	366000	988200
	P.S. – Jaridih		
	Khata No. – 112 & 129		
	Plot No. – 1345 & 1373		
10	Mouza – Utasara	250000	675000
	P.S. – Peterwar		
	Khata No. – 27		
	Plot No. – 1333, 1334, 1335, 1336, 1337		
11	Mouza – Palkiri	354000	955800
	Thana No. - 241		
	Thana – Chandankiyari		
	Khata No. – 07 & 114		



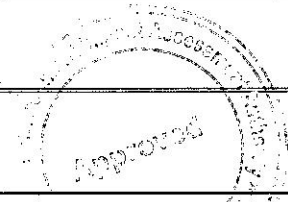
DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND



	Plot No. - 2564, 2565, 2567, 2572, 2573, 2576, 2577, 2566, 2570 Area - 4.38 Acres/1.77 Ha.		
12	Mouza - Girdhartand Thana No. - 112 Thana - Pindrajora Dist. - Bokaro Khata No. - 01, 18, 22 Plot No. - 28, 27, 85, 86 Area - 8.46 Acres/3.42 Ha.	684000	1846800
13	Mouza - Suryadih Thana No. - 197 Thana - Siyaljori Dist. - Bokaro Khata No. - 615, 616, 617, 653, 654, 655, 657, 658, 675, 676, 677, 678 & 679 Area - 4.14 Acres/1.67 Ha.	334000	901800
14	Mouza - Chandipur Thana No. - 266 Thana - Barmasia, Chandankiyari Dist. - Bokaro Khata No. - 18 & 36 Plot No. - 225, 226, 227, 263, 264(P), 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 297(P). Area - 4.77 Acres/1.93 Ha.	386000	1042200
15	Village - Nawadih Thana No. - 52 Thana - Peterwar Dist. - Bokaro Khata No. - 103, 123, 122, 116 Plot No. - 213, 214, 217, 218, 220 Area - 0.594 Acres/0.24 Ha.	48000	129600
16	Mouza - Girdhartanr Thana No. - 112 Thana - Pindrajora Dist. - Bokaro	232000	626400



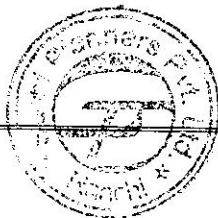
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DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND



	Khata No. - 01		
	Plot No. - 28		
	Area - 2.86 Acres/1.16 Ha.		
17	Mouza - Girdhartanr		
	Thana No. - 112		
	Thana - Pindrajora		
	Dist. - Bokaro		
	Khata No. - 18		
	Plot No. - 19(P), 20(P), 21, 22, 23, 24, 25, 26, 27(P)		
	Area - 5.00 Acres/2.02 Ha.	404000	1090800
	TOTAL		
18	Mouza - Girdhartanr		
	Thana No. - 112		
	Thana - Pindrajora		
	Dist. - Bokaro		
	Khata No. - 18 & 1		
	Plot No. - 27, 28		
	Area - 4.33 Acres/1.75 Ha.	350000	945000
19	Mouza - Bagiari		
	Thana No. - 100		
	Thana - Kasmar		
	Dist. - Bokaro		
	Khata No. - 207, 18, 173	264000	712800
	Plot No. - 1956, 1954, 1997, 1999, 2003, 2004, 2005, 2000, 1998, 1957		
	Area - 3.26 Acres/1.32 Ha.		
	TOTAL	6070000	16389000



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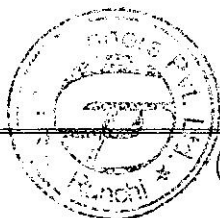
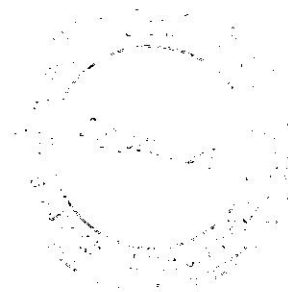
17. QUALITY/GRADE OF MINERAL AVAILABLE IN THE DISTRICT

A petro-logical study of stones found in mines of Bokaro district have been studied and found that stone is medium to fine grained, fractured, innocuous and suitable for road and building construction.

Commonly found rocks in Bokaro district is Granite gneiss, which is a rock consisting of an orthogenesis having the composition of a Granite. It is a high grade metamorphic rock, which has been subjected to higher temperatures and pressures 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 sub-parallel, i.e. they do not have a constant thickness, and discontinuous.

The Granitic Stones of Bokaro district are not suitable for cutting to pre-determined sizes, polishing and carving and amenable for making value-added products in decorative monumental and ornamental fields of industry as a high-value item.

(Source: Previous DSR [Stone] of Bokaro District)





18. USE OF MINERAL

Stones form one of the most important building materials in civil engineering. Stones are derived from rocks, which form the earth's crust and have no definite shape or chemical combination but are mixtures of two or more minerals. The mineral is a substance which is formed by the natural inorganic process and possesses a definite chemical combination and molecular structure. They are strong, durable and descent in appearance.

Stone is an essential and more permanent building material in construction than other natural building materials. Based on the type, stones can be used in buildings for flooring, roofing, masonry paving roads and also as aggregates foe concrete.

Most of the prehistoric monuments are built with natural stones as they remain stable with time. Before the advent of concrete stones were highly preferred for heavy engineering works like bridge piers, harbour walls, sea side walls and for facing works.

Stones for construction purposes are obtained by quarrying from solid massive rocks. The stone used for masonry construction should be hard, durable, tough and should be free from weathered soft patches of material, cracks and other defects that are responsible for the reduction of strength and durability.

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

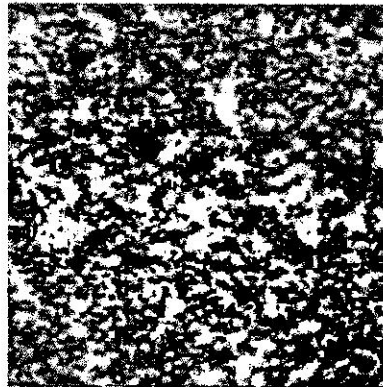
- Igneous Rocks – Basalt, Trap, Andesite, Rhyolite, Diorite, Granite.
- Sedimentary Rocks – Limestone, Dolomite and Sandstone.
- Metamorphic Rocks – Gneiss, Quartzite, Marble, Slate.

Types of Building Stones:

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

Granite

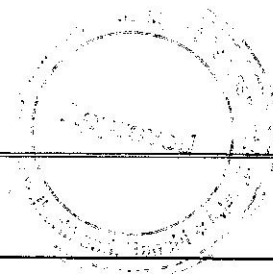
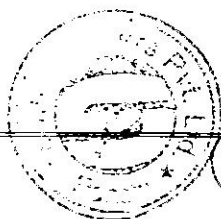
It is a deep seated igneous rock, which is hard, durable and available in various colours. It has a high value of crushing strength and is capable of bearing high weathering.



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 and Trap

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



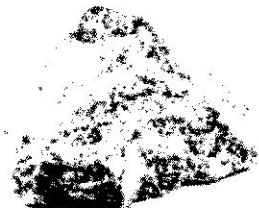
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They have the same uses as granite. Deccan trap is a popular stone of this group in South India.

Limestone

It is a sedimentary rock formed by remnants of seaweeds and living organisms consolidated and cemented together. It contains a high percentage of calcium carbonate.



Limestone is used for flooring, roofing, pavements and as a base material for cement.

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.

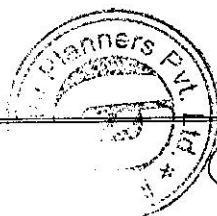
Gneiss

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



Marble

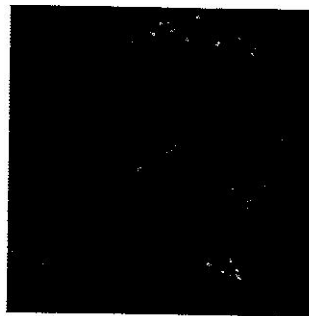
It is a metamorphic rock which can be easily cut and carved into different shapes.



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It is used for ornamental purposes, stone facing slabs, flooring, facing works etc.

Slate

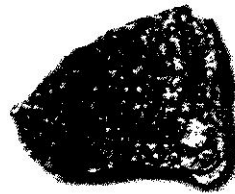
It is a metamorphic rock which can be split easily and available in black colour.



It is used for damp-proofing flooring and roofing.

Quartzite

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



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

Laterite

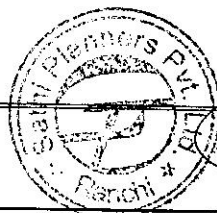
It is decomposed from igneous rocks; occur in soft and hard varieties. It contains a high percentage of iron oxide and can be easily cut into blocks.



The soft variety is used for walls after curing while the hard blocks are used for paving the pathways.

Uses of Building Stones:

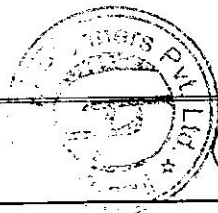
The stones used for various types of works are as follows:



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



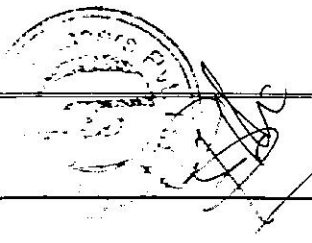
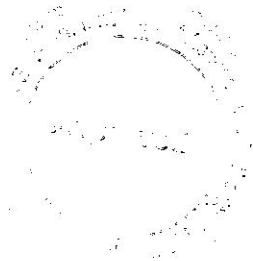


19. DEMAND AND SUPPLY OF THE MINOR MINERAL IN LAST THREE YEARS

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 Bokaro with respect to the requirement of the State has a huge gap. It is proposed to start the stone production from larger areas to at least double the production of the district which will enhance the revenue of the district and also support the livelihood of the local people.

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

There is a huge demand of stone chips for domestic and infrastructure sector. Only a few stone mines have environmental clearance for extraction of stone. There is limited supply of stone and there is huge gap. There are no statistical data, regarding demand and supply of minerals in Bokaro 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.



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20. MINING LEASES MARKED ON THE MAP OF THE DISTRICT

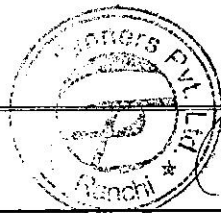
As per record of Bokaro District Mining Office, 27 Stone mining leases are registered out of which only 15 mining leases are in operational in current. The location of mining leases is given in Table 20.1 & Figure 20.1

Figure: 20.1: Location of Mining Lease in the Map of Bokaro district.

- Attached as **Annexure - I.**

Table 20.1: Location of Mining Lease in the Bokaro district

Sl. No.	Name of the Lessee	Address & Contact No. of the Lessee	Mouza/Block	Location of the Mining Lease (Latitude & Longitude)	Working/ Non-working
1	M/s Bhole Minerals of Shri Rajesh Kumar Singh S/o - Shri Laxman Singh	Q. No. - 2134, Street - 4 Sector - 4/A Bokaro Steel City Dist. - Bokaro	Mouza - Chainpur P.S. - Balidih Circle - Chas Khata No. - 02 Plot No. - 947(P)	23°35'40.90"E 23°35'47.30"N 86°03'22.30"E 86°03'28.50"E	Working
2	M/s Jai Maa Enterprises Crusher & Quarry of Shri Om Prakash Singh S/o Shri Ram Singhasan Singh	Q. No. - 262 Sector 1/B Bokaro Steel City Dist. - Bokaro	Mouza - Pailadih P.S. - Chas(M) Circle - Chas Khata No. - 40 Plot No. - 106, 108 & 109(P)	23°41'05.70" to 23°41'10.40" N 86°15'54.60" to 86°15'58.90" E	Working
3	Shri Usman Ansari S/o - Late Yunusuddin Ansari	Village - Lalpur P.O. - Kumirdova P.S. - Chandankiyari Dist. - Bokaro	Mouza - Lalpur Circle + P.S. - Chandankiyari Plot No. - 254 Plot No. - 1479	23°17'34.65" to 23°17'37.84" N 86°32'35.20" to 86°32'37.05" E	Working
4	M/s Nayak Construction of Shri Subhash Chandra Nayak S/o - Shri Bhushan Chandra Gorai	Village + P.O. - Siyaljori Dist. - Bokaro	Mouza - Suryadih P.S. - Siyaljori Circle - Chandankiyari Khata No. - 19 Plot No. - 655(P), 691, 694(P), 695(P)	23°37'17.35" to 23°37'27.10" N 86°18'31.80" to 86°18'38.30" E	Working
5	M/s Trimurti Quarry & Crusher of Partner 1: Shri Birendra Kumar Pandey S/o - Late Harihar Prasad Pandey Partner 2: Shri Jagdish Prasad Mahto	Village + P.O. - Taranga P.S. - Chandrapura Dist. - Bokaro	Mouza - Taranga Circle + P.S. - Chandrapura Khata No. - 101 Plot No. - 1220(P)	23°47'24.66" to 23°47'29.23" N 86°09'05.32" to 86°09'08.16" E	Working



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	S/o - Late Deglal S/o - Late Shanti Prasad Pandey				
6	M/s Kirty Enterprises of Partner 1: Shri Yogendra Prasad S/o - Shri Umacharan Mahto Partner 2: Shri Suresh Prasad S/o - Shri Jagdish Mahto Partner 3: Shri Arjun Prasad S/o - Late Gulabchand Kumhar	Village + P.O. - Telo Chandrapura Dist. - Bokaro	Mouza - Telo Circle + P.S. - Chandrapura	23°48'57.30" to 23°49'02.40" N 86°06'31.20" to 86°06'35.90" E	Working
7	Shri Pankaj Kumar S/o Shri Kashinath Singh	House No. - 24A Village + P.O. - Bhaski P.S. - Jaridih Dist. - Bokaro	Mouza - Barai Circle + P.S. - Nawadih Khata No. - 31 Plot No. - 736	23°51'34.00" to 23°51'37.12" N 85°58'33.74" to 85°58'35.30" E	Working
8	Shri Rakesh Kumar S/o - Shri Arun Kumar	Village - Ramnagar Colony P.O. + P.S. - Chas Dist. - Bokaro	Mouza - Partanr Circle - Chas P.S. - Siyaljori Khata No. - 86 Plot No. - 1176(P)	23°38'09.85" to 23°38'17.63" N 86°15'02.36" to 85°15'09.02" E	Working



**21. DETAILS OF THE AREA OF WHERE THERE IS A
CLUSTER OF MINING LEASES**

**21.1 Details of the area of where there is a cluster of mining leases
viz. number of mining leases, location (latitude and longitude);**

There is no such cluster of mining lease found in Bokaro district. However, it is proposed to consider the cluster of mining lease while planning for new lease area in coming years.





22. DETAILS OF ECO-SENSITIVE AREA

There is no any Eco-Sensitive area falls in Bokaro district. Major part of Bokaro district is covered with lusty green forest and climate is very pleasant. The landscape of Bokaro district is formed of hills and undulating plateau. About 640 km² areas of the district are covered under the forest. However, Jawahar Lal Nehru Biological Park is situated in Bokaro town.



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Impact on Biological Environment

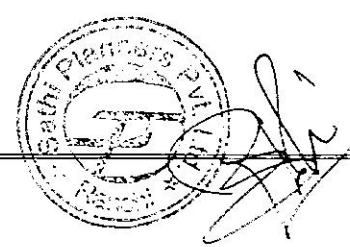
All the leasehold area in Bokaro district is barren. Hence, impact on biological environment is not expected. As mentioned earlier, it is proposed to develop a green belt around along both sides of transport road. This will help in improving biological environment of the area.

Impact on 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 but up to some extent socio-economic environment of the area will improve as, the mining activity and green belt development will create new job opportunities for the local people. The pit pond after mine closure shall be used for agricultural purpose, growing of fish, drinking water for animal and other domestic uses. Further, 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. The range of possibilities include arable cropping, grazing in either productive low land or over upland pasture. The only constraint apart from the site is that there must be some integration into the local rural agricultural pattern. But it would be inappropriate to establish pasture in an area of arable cropping, even though the grazed pasture would recreate the soil structure more rapidly.





24. REMEDIAL MEASURES TO MITIGATE THE IMPACT OF MINING ON THE ENVIRONMENT

23.1 Remedial Measures for other than Sand Mining:

▪ Remedial Measures for Air Pollution:

- 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. Provision for water spray by tankers on 'kuccha' road shall be done.
- Water sprinkling at loading area.
- Tree plantation along the haul roads & approach road will be done. Plantation along the mine boundary shall be done with tree density of 2000 trees per Hectare as per the norms of MoEF & CC, to control dust & noise.
- Use of personal protective equipment like dust mask.
- Ambient air pollution monitoring will be carried out.

▪ Remedial Measures for Water Pollution:

- Mining is proposed to plan above the ground water table. Therefore, pumping of ground water from mine pit does not arise in this mine. The rain water during rainy season is proposed to settle in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- 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.

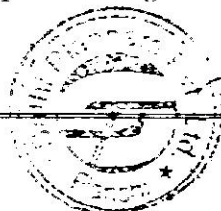
▪ Remedial Measures for Noise Pollution:

- 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.

▪ Remedial Measures for Land Environment:

Some of the measures followed to minimize the impacts are as follows:

- 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.
- The surface run off from the lease area will be retain within the lease and used for plantation, dust suppression and block cutting. So, there will be no soil erosion from the lease area and its surrounding due to mining activity.
- The dump will have inward slope with catch drains at inward side of the terrace and the catch drain of the individual terrace will be connected to the garland drain outside the periphery of the dump. Retaining wall and garland drain will be constructed around the



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Dumps and the surface runoff water pass through the garland drain and finally settled in a settling pit before released outside.

- 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.

▪ **Remedial Measures for Waste Management:**

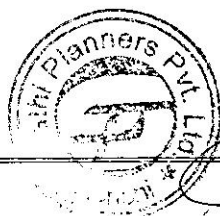
The solid waste shall be dumped systematically with proper repose angle and stabilization as follows:

- Gradation of dump shall be done automatically as coarser materials go to the bottom and finer at the top and therefore drain of rain water flow freely to the bottom without endangering the stability of dump.
- Stabilization of dump with top soil and tree plantation shall make the dump more stable on long. Dump should be terraced for every 5 m height and stabilized
- 1m height parapet shall be constructed for dumps more than 6m height along the toe to prevent and control wash out from dumps entering into natural system through rain water.
- Garland drainage around dump shall prevent under wash of dump by hydrostatic pressure to be developed by surface water and control wash outs and collapse.

▪ **Remedial Measures for Flora and Fauna:**

Extensive plantation comprising of pollutant resistant trees will be undertaken, which will serve not only as pollution sink but also as a noise barrier. It is proposed to include azadirachta Indica, and ficus Religiosa in the plantation program as they serve as sinks for gaseous emissions.

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.





25. RECLAMATION OF MINED-OUT AREA

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

Reclamation of mined-out area:

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 stage 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.

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.
- 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.





26. RISK ASSESSMENT & DISASTER MANAGEMENT PLAN

The area is hilly area. 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.

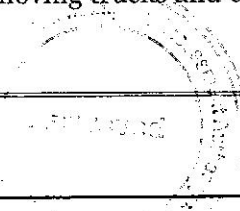
Mining activity because of the very nature of the operation, complexity of the systems, procedures and methods always involves some amount of hazards. Hazard identification and risk analysis is carried for identification of undesirable events that can leads to a hazard, the analysis of hazard *mechanism by which this undesirable event could occur and usually the estimation of extent, magnitude and likelihood of harmful effects. The activities which can cause high risk related to face stability and the person blasting the shots.* It was observed that on a working face of the mine, there were large cracks and unsupported rocks were present, which can lead to a serious hazard and injure workers engaged in loading operation and machineries because of rock falls or slides. This type of condition turns out because improper dressing of the bench and improper supervision. To avoid the hazards due to fall of rocks the face must be examined, made suitable for working and the remedial measures must be taken to make it safe if there is any doubt that a collapse could take place. Working of the face should be in the direction taking into account the geology of the area such that face and quarry side remain stable. Another major risk identified in mines is due to the firing of explosive by an unqualified person. In the mines there is problem of fly rocks and the village is located close to the mine and so it is rated high as it can affect many people.

Explosives by nature have the potential for the most serious and catastrophic accident. Planning of round of shots, holes correctly drilled, direction logged, weight of explosive suitable for good fragmentation are the few of the steps necessary to ensure its safe use and if the shots are not properly designed can result in misfires, early ignition and flying rocks. No person is allowed to use explosives without being properly trained in its handling.

In the mine a large numbers of heavy vehicles were in operation and the roads were not proper for haulage purpose. The haulage roads were not even and were not wide enough for the crossing purpose and hence the chances of hazards are very high. The main hazards arising from the use large earth moving vehicles are incompetent drivers, brake failure, lack of all-around visibility from the driver position, vehicle movements particularly reversing, roll over, and maintenance. Those most at risk are the driver and pedestrians likely to be struck by the vehicle, and drivers of smaller vehicles, which cannot be seen from the cabs of large vehicles. Edge protection is always necessary to prevent inadvertent movement over the edge of roadway or a bench. Seatbelt will protect driver in case of roll. Good maintenance and regular testing are necessary to reduce the possibility of brake failure. Access to the vehicles should always be restricted to those people necessary for the work in hand. The use of personal protective equipment and proper arrangements to check if the person is wearing a personal protective equipment or not is essential. The personal protective equipment includes helmet, non-skid safety boots, safety glasses, earmuffs etc.

The required personal protective equipment should be provided and used in a manner that protects the individual from injury. Few minor injuries which can be prevented are slip, trip or fall hazards; hazards due to rock falls and collapse of unstable rocks, atmosphere containing toxic or combustible gases; protects from chemical or hazardous material etc.

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



**DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND
MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND**

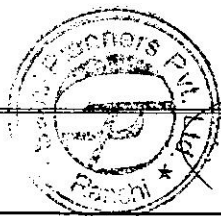
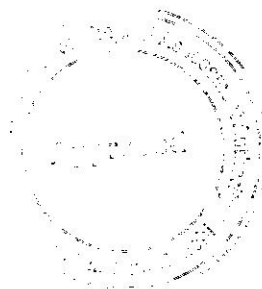


is also present in roadways which affects the operators and can lead to accidents to some extent. They are in acceptable range because of precautions measures taken but no step is taken to cause hazard. Hence, the steps should be taken to reduce the hazards such as for dust suppression system should 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 standby should be there to replace the person in Emergency situation. Rescue operations should not include the survivors for any assistance. First Information of Disaster/Emergency should go to the attendance clerk on duty. Duties of attendance Clerk (Emergency Siren) the attendance clerk or other designated person should on getting information of major accident, sound a hotter or a siren immediately declaring a state of emergency at the mine and then to contact the manager and on his advice to call key personnel using the information listed in the Emergency Organization Chart. It is important that all telephone calls are recorded in a telephone log book. Duties of Other Officials should be displayed and handed over to all concerned. Copy the same should be kept at Manager's Office for ready reference. Establishment of Control Room at Unit Level, Area Level and Company Level is essential. Control Room should keep the contact information about –

- Company Manager
- Company Owner/Administrative Officer
- District Administration
- Govt. Hospitals in nearby localities
- Private Nursing Homes of localities



District Administration
Bokaro



2-. DETAILS OF THE OCCUPATIONAL HEALTH ISSUES IN THE DISTRICT

26.1 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);

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)

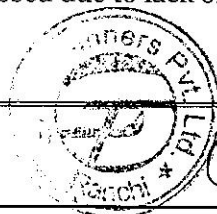
25 S.O. 399(E) dated 21st February, 2011

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

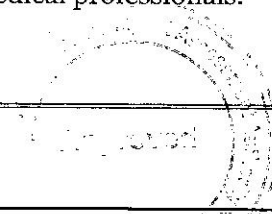
System of Detection of Occupational Diseases in Mines

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 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.



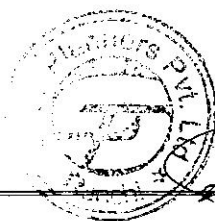
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DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND



As discussed with Bokaro district Civil Surgeon Office, there are not any cases of Silicosis & Tuberculosis, due to stone mining activity in last five-years in Bokaro district and further the data of number of patients of Silicosis & Tuberculosis, due to stone mining activity are not found.





28. PLANTATION AND GREEN BELT DEVELOPMENT

28.1 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 Bokaro 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 2500 local plants per hectare and along the road side, at an interval of 2 meters in the zig-zag manner in both sides.



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29. ADDITIONAL INFORMATION

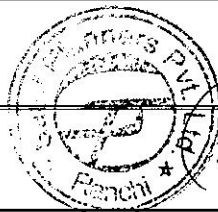
29.1 Details of identified Potential Stone Deposits in Bokaro District of Jharkhand State:

Sl. No.	Name of the Mineral	Details of identified Potential Stone Deposit
1	2	3
1	Stone	Mouza – Taranga P.S. – Chandrapura Khata No. – 02 Plot No. – 1425, 1427, 1429 Area – 2.85 Acres
2	Stone	Mouza – Patki P.S. – Peterwar Khata No. – 24 Plot No. – 96 Area – 3.58 Acres
3	Stone	Mouza – Bogla P.S. – Chandankiyari Khata No. – 99 Plot No. – 3676, 3735(P), 3734(P) Area – 1.535 Acres
4	Stone	Mouza – Chanpi P.S. – Peterwar Khata No. – 65, 49 Plot No. – 2528, 2529 Area – 3.40 Acres
5	Stone	Mouza – Amainagar P.S. – Chandankiyari Khata No. – 112 Plot No. – 1505(P) Area – 3.33 Acres
6	Stone	Mouza – Khuntri P.S. – Jaridih Khata No. – 66 & 24 Plot No. – 2849, 2850 (P) 2853, 2854, 2855, 2874 Area – 4.60 Acres
7	Stone	Mouza – Chandrapur P.S. – Jaridih Khata No. – 02 Plot No. – 021 Area – 5.12 Acres
8	Stone	Mouza – Belmuga P.S. – Chand M Khata No. – 284, 285 Plot No. – 830, 831, 832, 834, 835, 843, 844, 845, 846, 847, 848

DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND



		Area – 5.13 Acres
9	Stone	Mouza – Tantri P.S. – Jaridih Khata No. – 112 & 129 Plot No. – 1345 & 1373 Area – 4.53 Acres
10	Stone	Mouza – Utasara P.S. – Peterwar Khata No. – 27 Plot No. – 1333, 1334, 1335, 1336, 1337 Area – 3.10 Acres
11	Stone	Mouza – Palkiri Thana No. – 241 Thana – Chandankiyari Khata No. – 07 & 114 Plot No. – 2564, 2565, 2567, 2572, 2573, 2576, 2577, 2566, 2570 Area – 4.38 Acres
12	Stone	Mouza – Girdhartanr Thana No. – 112 Thana – Pindrajora Dist. – Bokaro Khata No. – 01, 18, 22 Plot No. – 28, 27, 85, 86 Area – 8.46 Acres
13	Stone	Mouza – Suryadih Thana No. – 197 Thana – Siyaljori Dist. – Bokaro Khata No. – 615, 616, 617, 653, 654, 655, 657, 658, 675, 676, 677, 678 & 679 Area – 4.14 Acres
14	Stone	Mouza – Chandipur Thana No. – 266 Thana – Barmasia. Chandankiyari Dist. – Bokaro Khata No. – 18 & 36 Plot No. – 225, 226, 227, 263, 264(P), 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 297(P). Area – 4.77 Acres
15	Stone	Village – Nawadih Thana No. – 52 Thana – Peterwar Dist. – Bokaro Khata No. – 103, 123, 122, 116 Plot No. – 213, 214, 217, 218, 220 Area – 0.594 Acres



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DISTRICT SURVEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND MINING OR RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND



16	Stone	Mouza – Girdhartanr Thana No. – 112 Thana – Pindrajora Dist. – Bokaro Khata No. – 01 Plot No. – 28 Area – 2.86 Acres
17	Stone	Mouza – Girdhartanr Thana No. – 112 Thana – Pindrajora Dist. – Bokaro Khata No. – 18 Plot No. – 19(P), 20(P), 21, 22, 23, 24, 25, 26, 27(P) Area – 5.00 Acres
18	Stone	Mouza – Girdhartanr Thana No. – 112 Thana – Pindrajora Dist. – Bokaro Khata No. – 18 & 1 Plot No. – 27, 28 Area – 4.33 Acres
19	Stone	Mouza – Bagiari Thana No. – 100 Thana – Kasmar Dist. – Bokaro Khata No. – 207, 18, 173 Plot No. – 1956, 1954, 1997, 1999, 2003, 2004, 2005, 2000, 1998, 1957 Area – 3.26 Acres

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

References:

- www.bokaro.nic.in
- District Mining Office – Bokaro
- District Forest Office – Bokaro
- CGWB Report of Bokaro
- India State of Forest Report, 2021
- Geology of Bihar and Jharkhand by T. M. Mahadevan
- National Institute of Disaster Management Report
- Report of Central Ground Water Board, Ministry of Water Resources – State Unit Office, Ranchi, September 2013.
- D. S. R. of Stone (2018) – Bokaro
- JSAC, Deptt. of Mines & Geology, Govt. of Jharkhand
- <http://www.jharkhandminerals.gov.in>
- <https://en.climate-data.org/asia/india/jharkhand/bokaro-969182/>
- <https://en.wikipedia.org/wiki/Bokaro>
- District Statistical Office, Bokaro
- District Irrigation Plan – Bokaro, Govt. of Jharkhand
- https://sameti.org/Soil_Inventory/BokaroSoil_Analysis.pdf
- JSMDC site
- census2011.co.in
- National Informatics Centre



(Signature)

1. 11वीं भाग के वि. प्रीति के भा. की 01 के कृषि मंत्री का. 11
 2. 11वीं भाग के वि. प्रीति के भा. की 02 के कृषि मंत्री का. 11

24-5-16

कार्यालय अंचल अधिकारी, जरीडीह (बोकारो)

(17)

1. 11वीं भाग के वि. प्रीति के भा. की 01 के कृषि मंत्री का. 11

प्रेषक
 अंचल अधिकारी,
 नजारा नगर बोकारो

कानून/कानून

1. वि. प्रीति के भा. की 01 के कृषि मंत्री का. 11

सेवा में,
 24-05-16

सहायक स्वनन पदाधिकारी,
 बोकारो

जरीडीह दिनांक 2/4/2016

विषय: जरीडीह जिला के जरीडीह थाना नगर, मौजा- बलरामपुर, खाना न- 41
 खोले संख्या- 37 (अंश) रकबा- 1.85 एकड़ क्षेत्र पर पत्थर स्वनन पट्टा
 की स्वीकृति हेतु श्री मिथलेश कुमार महतो, पिता श्री मुखदेव महतो
 ग्राम चिलगइडा थाना- जरीडीह, जिला- बोकारो द्वारा दारिद्र्य आवेदन पत्र
 के लॉच प्रतिवेदन के संबंध में।

प्रसंग:- आपका पत्रांक- 887, दिनांक- 16.03.16

महोदय,

उपरोक्त विषय एवं प्रसंग के संबंध में सूचित करना है कि जरीडीह
 थाना नगर मौजा- बलरामपुर खाना न- 41, खोले संख्या- 37 (अंश) रकबा- 1.85 एकड़
 क्षेत्र पर पत्थर स्वनन पट्टा की स्वीकृति हेतु श्री मिथलेश कुमार महतो, पिता श्री
 मुखदेव महतो, ग्राम- बलरामपुर, पो- चिलगइडा, थाना- जरीडीह, जिला- बोकारो
 द्वारा दारिद्र्य आवेदन पत्र का लॉच संबंधित राजस्व कर्मचारी द्वारा कराया गया।
 लॉच पत्रांक पामा कि आवेदन श्री मिथलेश कुमार महतो पिता श्री मुखदेव महतो
 ग्राम- बलरामपुर, पो- चिलगइडा थाना जरीडीह, जिला- बोकारो द्वारा खाना न- 41
 खोले नं- 37 (अंश) रकबा- 1.85 एकड़ क्षेत्र वॉड- 11 ईशली खाने की जमीन है।
 जिसका लॉच प्रतिवेदन बिन्दुवार निम्नवत है।

1. आवेदित क्षेत्र ईशली खाने की है।
2. आवेदित क्षेत्र के 50 मीटर के अन्दर आर्थिक स्थल, चारागाह, शमशानाघाट या सर्व-
जनिक स्थल नहीं है।
3. क्षेत्र किसी व्यक्ति के साथ बन्दोवस्ती या हस्तान्तरित नहीं है।
4. स्वीकृति के अनुसार आवेदित क्षेत्र का किस्म वॉड- 11 है।
5. आवेदित क्षेत्र ईशली है तथा ईशली का सूचना पत्र की द्वारा प्रति संलग्न है।
6. रजिस्टर- 11 में विषय महतो, मुख महतो का नाम पृष्ठ सं 150 पर दर्ज है तथा
ईशली उपरोक्त के वंशज है सत्यापित नञ्जावली संलग्न है।
7. ईशली आदिवासी नहीं है जति के कारण है। होनागपुर कार्यालय अधिग्रहण
के प्रावधानों के तहत अनुशांसा किया जा सकता है।
8. आवेदित क्षेत्र के 500 मी. की दूरी के अन्दर कोई प्राण वसाहत स्थित नहीं है।
9. आवेदित क्षेत्र के 500 मी. की दूरी के अन्दर कोई जलीय निकाय स्थित नहीं है।
10. आवेदित क्षेत्र के 500 मी. की दूरी के अन्दर कोई भी शैक्षणिक संस्था
स्थित नहीं है।
11. आवेदित क्षेत्र के 500 मी. की दूरी के अन्दर कोई भी शैक्षणिक संस्था
स्थित नहीं है।
12. आवेदित क्षेत्र के 500 मी. की दूरी के अन्दर कोई भी चिकित्सालय स्थित
नहीं है।

District M...
Bokaro

13. आवेदन क्षेत्र के 10 कि मी. की परिधि में बंगाल सीमा है।

14. आवेदन क्षेत्र के 500 मी. की दूरी के अन्दर कोई शस्त्रीय आरोहण/

(17)

(सुरक्षात्मक प्रवृत्तियों के अभाव में स्थिति नहीं है।)

इस क्षेत्र में आवश्यक कार्रवाई हेतु भेजा जाता है।

अनुलग्नक

(1) नक्शा एक प्रतिलिपि प्रेषित है।

प्रिकाशी अंतर्गत
श्री प्रकाश समाज

20/1/2 कांन्डी सीट प्रिन्ट

प्रिकाशी अंतर्गत कांन्डी सीट प्रिन्ट
श्री प्रकाश समाज
अंचल अधिकारी

18-1-1978, 78-1-1978 - 18-1-1978, 78-1-1978
कमल अंतर्गत कांन्डी सीट प्रिन्ट 28.1.78-1-1978
18-1-1978, 78-1-1978

District Manager's Officer
Bokaro



Government of Jharkhand

18

Department of Forest, Environment and Climate Change

Permission Letter : LETTER20180420

ACK NO: SWSEST170220186ad6b

Issue Date: 20-04-2018

Report of Distance from Forest, Forest Reserve and Sanctuary

SNo	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Distance of battery point from the Unit	500	500
2	Is the proposed land situated inside or outside the forest boundary?	Yes	Yes
3	Does the proposed land contain rocks?		
4	Are there any trees or plants on the proposed land?	No	No
5	Legal status of the proposed land- Does the proposed land fall under notified forest area?		
6	What will be the effect on environment after mining of stones from the proposed land?		
7	Is there any wildlife present on the proposed land?		
8	Is there any National Park situated within 10 km of the land?	No	No
9	Is there any Sanctuary situated within 10 km of the land?	No	No
10	Is there any declared Bio-Diversity patch within 10 km of the land?	No	No

Name : [Signature]

Designation : Dfo, Bokaro Forest Division

Signature : [Signature]
Divisional Forest Officer
Bokaro Forest Division
Bokaro

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



20-04-2018 18:14

District Mining Office
Bokaro

कार्यालय अंचल अधिकारी, पेटरवार।

33

पत्रांक :- 457

प्रेषक,

अंचल अधिकारी
पेटरवार

सेवा में,

जिला खनन् पदाधिकारी,
बोकारो।

पेटरवार/दिनांक :- 18.06.19.

विषय:-

बोकारो जिला के पेटरवार थानान्तर्गत, मौजा-उतासारा, खाता संख्या-50, प्लॉट सं0-1115, 1116, 1117, 1118, रकबा-4.11 ए0 क्षेत्र पर पत्थर खनन् पट्ट की स्वीकृति हेतु श्री विश्वकर्मा स्टोन वर्क्स, प्रो0 श्री सहदेव साव पिता स्व0 लमडु साव, ग्राम+पो0-दांतु, जिला-बोकारो द्वारा दाखिल आवेदन पत्र के संबंध में।

प्रसंग:-
महाशय,

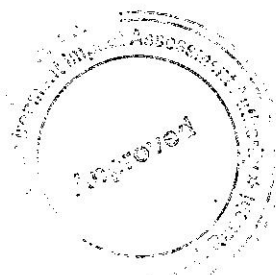
भवदीय के पत्रांक 1821/खनन् दिनांक 03.06.2019

उपर्युक्त विषयक प्रासंगिक पत्र के आलोक में संबंधित हल्का कर्मचारी एवं अंचल निरीक्षक से जांच कराई गई जांच प्रतिवेदन के आधार पर बिन्दुवार जांच प्रतिवेदन निम्नलिखित है-

1. आवेदित क्षेत्र सर्वे खतियान के अनुसार रैयती खाते की है।
2. आवेदित क्षेत्र के 50 मीटर के अंदर धार्मिक स्थल, चारागाह, शमशान घाट या सार्वजनिक स्थल नहीं है।
3. आवेदित क्षेत्र किसी व्यक्ति के साथ बंदोबस्त या हस्तांतरित नहीं है।
4. खतियान के अनुसार आवेदित क्षेत्र का किस्म निम्न प्रकार है-
क). प्लॉट सं0-1115-परती पथल, ख). प्लॉट सं0-1116-धान खेत,
ग). प्लॉट सं0-1117-परती गढ़ा, घ). प्लॉट सं0-1118-टांड
5. आवेदित क्षेत्र रैयती है। एवं रैयत की सहमति आवेदक को प्राप्त है, संलग्न है।
6. पंजी II के पृष्ठ संख्या-1/163 में राजा राम मांझी पिता शंकर के नाम से जमाबंदी कायम है। वर्तमान रैयत पंजी II में अंकित रैयत के वंशज है। वंशावली संलग्न है।
7. रैयत आदिवासी है। छोटानागपुर काश्तकारी अधिनियम के प्रावधानों के तहत पत्थर खनन् पट्ट की स्वीकृति दी जा सकती है।
8. आवेदित क्षेत्र के 500 मी0 के दूरी के अंदर मानव बसाहट (Habitation) स्थित नहीं है।
9. आवेदित क्षेत्र के 500 मी0 के दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित नहीं है।
10. आवेदित क्षेत्र के 500 मी0 की दूरी के अंदर नदी (River) स्थित नहीं है।
11. आवेदित क्षेत्र के 500 मी0 के दूरी के अंदर शैक्षणिक संस्थान स्थित (Educational Institute) नहीं है।
12. आवेदित क्षेत्र के 500 मी0 के दूरी के अंदर चिकित्सालय (Hospital) स्थित नहीं है।
13. आवेदित क्षेत्र के 10 किलो0 मी0 के दूरी के अंदर अन्तराज्य सीमा (Interstate) नहीं है।
14. आवेदित क्षेत्र के 500 मी0 के दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातत्वीय महत्व के स्थल नहीं है।
15. आवेदित क्षेत्र भूमि की कोटी सर्वे खतियान तथा पंजी II में जंगल झाड़ी दर्ज नहीं है।
16. आवेदित क्षेत्र सरकार द्वारा अपने उपयोग के लिए स्थानीय प्राधिकारी अथवा किसी जनहित अथवा किसी विशेष उद्देश्य के लिए सुरक्षित भूमि के रूप में अधिसूचित नहीं किया गया है।

अतः जांच प्रतिवेदन अग्रेतर कार्रवाई हेतु प्रेषित।

अनुलग्नक :- यथोक्त।



विश्वास भाजन

अंचल अधिकारी
पेटरवार।
14/6/19

District Mining Officer
Bokaro



Government of Jharkhand
Department of Forest, Environment and Climate Change

Permission Letter : LETTER20190622

ACK No: SWSFST2405201908da5

Issue Date: 22-06-2019

Report of Distance from Forest, Forest Reserve and Sanctuary

SNo.	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Distance of battery pole from the Unit	265	260
2	Is the proposed land situated inside or outside the forest boundary?	Yes	Yes
3	Does the proposed land contain rocks?		
4	Are there any trees or plants on the proposed land?	No	No
5	Legal status of the proposed land- Does the proposed land fall under notified forest area?		
6	What will be the effect on environment after mining of stones from the proposed land?		
7	Is there any wildlife present on the proposed land?		
8	Is there any National Park situated within 10 km of the land?	No	No
9	Is there any Sanctuary situated within 10 km of the land?	No	No
10	Is there any declared Bio-Diversity patch within 10 km of the land?	No	No

Name: Ravindra Nath Mishra

Designation: DFO

Signature: [Handwritten Signature]

Divisional Forest Officer
Bokaro Forest Division
Bokaro

Memo no: 1982 date 22/06/2019

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

2
ELEGG 6119



District Mining Officer
Bokaro

Print Application

Back

ACK No. - SWSFST2805201908da5

Name	MS VISHWAKARMA STONE WORK	Mobile No	7488247525
E-Mail Id	kalpasaw673@gmail.com	Location of Land	Rural
Category	Mining and ore beneficiation		
Institutional Type	Non Government	Address	MOUZA- UTASARA, THANA- PETARWAR, PO- UTASARA, DIST- BOKARO, (JH)
District Name	Bokaro	Division	DFO Bokaro
Range	Petarwar	Name of village	UTASARA
Please enter details of battery Point			
Thana Name	PETARWAR	Thana No.	35
Khata NO	50,50,50,50,	Khesra NO	1115,1116,1117,1118
Industry Battery Point	UTASARA	Distance from Forest (in Meter)	1000
Latitude of Battery Point	23°40.261	Longitude of Battery Point	85°52.861
Village Map/Cadastral Map in pdf format (16"=1 mile) View Map			

Application Status

Current Status :	Application Approved
Letter No:	LETTER20190622
Remark:	.
Approval Date :	22-06-2019
Uploaded Letter	View Letter

9
ELEC 119



[Signature]
DISTRICT MINING OFFICE
BOKARO

कार्यालय, अंचल अधिकारी, नावाडीह (बोकारो)।

34

पत्रांक:- 265

प्रेषक,

अंचल अधिकारी,
नावाडीह।

सेवा में,

जिला खनन पदाधिकारी,
बोकारो।

विषय :-

नावाडीह, दिनांक :- 01-04-2019
बोकारो जिला के नावाडीह थानान्तर्गत मौजा परसबनी, खाता सं० 10 एवं 08, प्लॉट सं० 2638 एवं 2639 (अंश), रकबा 4.02 ए० क्षेत्र पर पत्थर खनन की स्वीकृति हेतु मेसर्स एस० एल० इन्टरप्राइजेज को अनापत्ति प्रमाण पत्र संबंधित जांच प्रतिवेदन प्रेषण।
भवदीय का पत्रांक 753/खनन, दिनांक 08.03.2019।

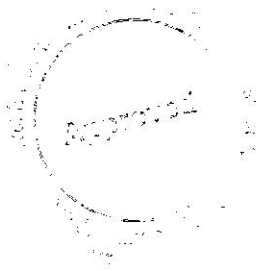
प्रसंग:-

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के आलोक में हल्का राजस्व कर्मचारी एवं प्रमारी अंचल निरीक्षक के जांच प्रतिवेदन के अनुसार एस० एल० इन्टरप्राइजेज हेतु जांच प्रतिवेदन बिंदुवार निम्नवत है:-

1. आवेदित क्षेत्र रैयती खाते की है।
 2. आवेदित क्षेत्र 50 मीटर के अंदर धार्मिक स्थल, चारागाह, श्मशान घाट या सार्वजनिक स्थल नहीं है।
 3. आवेदित क्षेत्र किसी व्यक्ति के साथ बन्दोबस्ती या हस्तांतरित नहीं है।
 4. खतियान के अनुसार आवेदित क्षेत्र का किस्म टांड तीन है।
 5. आवेदित क्षेत्र रैयती है। रैयत की सहमति आवेदकगण को प्राप्त है। छायाप्रति संलग्न।
 6. रजिस्टर II में रैयत का नाम दर्ज है। तथा जमाबंदीधारी रैयत का वंशज है। वंशावली संलग्न।
 7. रैयत अन्य जाति के है।
 8. आवेदित क्षेत्र के 500 मीटर की दूरी के अन्दर कोई मानव बसाहट स्थित नहीं है।
 9. आवेदित क्षेत्र के 500 मीटर की दूरी के अन्दर कोई जलीय निकाय नहीं है।
 10. आवेदित क्षेत्र के 500 मीटर की दूरी के अन्दर कोई नदी स्थित नहीं है, परंतु बरसाती नाला है।
 11. आवेदित क्षेत्र के 500 मीटर की दूरी के अन्दर कोई शैक्षणिक संस्थान स्थित नहीं है।
 12. आवेदित क्षेत्र के 500 मीटर की दूरी के अन्दर कोई चिकित्सालय स्थित नहीं है।
 13. आवेदित क्षेत्र के 500 मीटर की दूरी के अन्दर कोई अन्तर्राज्यीय सीमा नहीं है।
 14. आवेदित क्षेत्र के 500 मीटर की दूरी के अन्दर कोई राष्ट्रीय धरोहर/पुरातत्वीय महत्व का स्थल स्थित नहीं है।
 15. आवेदित क्षेत्र के अन्दर इन अन्य व्यक्तियों के लिए स्थानीय अधिकारी अथवा किसी जनहित अथवा विशेष उद्देश्य के लिए सुरक्षित क्षेत्र के रूप में अधिनियम नहीं किया गया है।
- अतः जांच प्रतिवेदन परतय्य नन्देंद के अनुसार जांच प्रतिवेदन किया जाता है।

विश्वास्तमाजन



[Signature]
अंचल अधिकारी,
नावाडीह।
01/04/19

District Mining Officer,
Bokaro

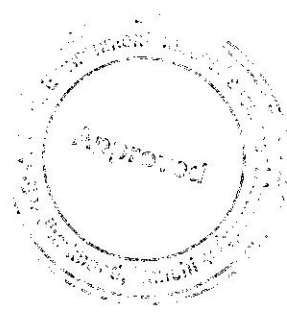


Department of Forest, Environment and Climate Change

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

Name Of Applicant	MS S L ENTERPRISES	Contact no.:	8709455136
Business Type	Non Government		
Mobile ID	laljisahugmo@gmail.com	Location of Proposed Land	
District	Bokaro	Battery Point	PRASBANI
Block No.	97	Thana Name:	NAWADIH
Village No.:	10,08	Khesra Name:	2638,2639P
	Checkpoint	Divisional Forest Officer	Range Forest Officer
Whether the proposed land falls outside notified forest boundary or not? *		Yes	Yes
Distance of Battery Point from Notified Forest Land (meters) *		4200	4200
Is there any National Park situated within a radius of 10.km from the battery point? *		No	No
Is there any Wildlife Sanctuary situated within a radius of 10 km from the battery point? *		No	No
Is the proposed project situated in any Eco Sensitive Zone? *		No	No
Is there any notified Bio-Diversity area within a radius of 10 km from the battery point? *		No	No

Division DFO Bokaro
 Letter No. 1869
 Date of issue 14/06/2019
 Signature [Signature]
 Name [Name]
 Divisional Forest Officer Forest Division
 Bokaro Bokaro



[Signature]
 District Forest Officer
 Bokaro

कार्यालय अंचल अधिकारी, पेटरवार।

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पत्रांक :- 159.....

अंचल अधिकारी
पेटरवार

तः

जिला खनन् पदाधिकारी,
बोकारो।

पेटरवार/दिनांक :- 23/2/19..

विषय:- बोकारो जिला के पेटरवार थानान्तर्गत, मौजा-पुटकाडी, खाता संख्या-25, प्लॉट सं0-459, रकवा-3.26 ए0 क्षेत्र पर पत्थर खनन् पट्ट की स्वीकृति हेतु मेसर्स झारखण्ड स्टोन वर्क्स, पार्ट 1. श्री राधा नाथ सोरेन पिता स्व0 दरबारी मांड़ी, ग्राम+पो0-उतासारा, थाना-पेटरवार, जिला-बोकारो, 2. श्री सोमर नायक, पिता श्री दशरथ नायक ग्राम+पो0-दांतु, थाना-कसमार, जिला-बोकारो द्वारा दाखिल आवेदन पत्र के संबंध में।

प्रसंग:- भवदीय के पत्रांक 307/खनन् दिनांक 28.01.2019
महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के आलोक में संबंधित हल्का कर्मचारी एवं अंचल निरीक्षक से जाँच कराई गई जाँच प्रतिवेदन के आधार पर बिन्दुवार जाँच प्रतिवेदन निम्नलिखित है-

1. आवेदित क्षेत्र सर्वे खतियान के अनुसार रैयती खाते की है।
2. आवेदित क्षेत्र के 50 मीटर के अंदर धार्मिक स्थल, चारागाह, शमशान घाट या सार्वजनिक निकाय स्थल नहीं है।
3. आवेदित क्षेत्र किसी व्यक्ति के साथ बंदोबस्त नहीं है। लेकिन रतिया मांड़ी पिता कार्तिक मांड़ी को वशीकाहीबा नामा द्वारा हासिल है। जो इसके वंशज के 1. श्रीजन मांड़ी 2. भोगता मांड़ी, 3. सोबरन मांड़ी पिता रतिया मांड़ी, 4. हीरालाल मांड़ी पिता स्व0 शिवनारायण मांड़ी, 5. राजू मांड़ी पिता स्व0 शिवधरण मांड़ी के द्वारा राधानाथ सोरेन पिता दरबारी मांड़ी वो सोमर नायक पिता दशरथ नायक लिज द्वारा हस्तांतरित है।
4. खतियान के अनुसार आवेदित क्षेत्र का किस्म टांड III दर्ज है।
5. आवेदित क्षेत्र रैयती है। एवं रैयत की सहमति आवेदक को प्राप्त है।
6. पंजी II के पृष्ठ संख्या-1/19 में रतिया मांड़ी पिता कार्तिक मांड़ी का नाम दर्ज है।
7. रैयत आदिवासी है।
8. आवेदित क्षेत्र के 500 मी0 के दूरी के अंदर मानव बसाहट (Habitation) स्थित नहीं है।
9. आवेदित क्षेत्र के 500 मी0 के दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित नहीं है।
10. आवेदित क्षेत्र के 500 मी0 की दूरी के अंदर नदी (River) स्थित नहीं है।
11. आवेदित क्षेत्र के 500 मी0 के दूरी के अंदर शैक्षणिक संस्थान स्थित (Educational Institute) नहीं है।
12. आवेदित क्षेत्र के 500 मी0 के दूरी के अंदर चिकित्सालय (Hospital) स्थित नहीं है।
13. आवेदित क्षेत्र के 10 किलो0 मी0 के दूरी के अंदर अन्तराज्य सीमा (Interstate) नहीं है।
14. आवेदित क्षेत्र के 500 मी0 के दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातत्वीय महत्व के स्थल नहीं है।
15. आवेदित क्षेत्र सरकार द्वारा अपने उपयोग के लिए स्थानीय प्राधिकारी अथवा किसी जनहित अथवा किसी विशेष उद्देश्य के लिए सुरक्षित भूमि के रूप में अधिसूचित नहीं किया गया है।

अतः जाँच प्रतिवेदन अग्रेतर कार्रवाई हेतु प्रेषित।

अनुलग्नक :- यथोक्त।



विश्वस भाजन

अंचल अधिकारी

पेटरवार अंचल अधिकारी
पेटरवार (बोकारो)

District Mining Officer
Bokaro



कार्यालय :- वन प्रमण्डल पदाधिकारी, बोकारो वन प्रमण्डल, बोकारो

E-mail : dfobokarodivision@rediffmail.com

Phone/Fax No : +91-6542-265142

17

पत्रांक :- 1654

दिनांक :- 11/6/16

मे0 झारखण्ड स्टोन वर्क्स,
पार्ट0 राधा नाथ सोरेन,
ग्राम+पो0-उतासारा,
थाना-पेटरवार, जिला-बोकारो।

विषय :- पेटरवार थानान्तर्गत मौजा फुटकाडीह, खाता नंबर 25, प्लॉट नंबर 459 के रकबा 3.26एकड़ पर पत्थर खनन पट्टा की स्वीकृति हेतु जाँच प्रतिवेदन के संबंध में।

प्रसंग :- आपका अभ्यावेदन दिनांक शून्य।

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के संबंध में सूचित करना है कि विषयगत मामले में प्रस्तावित स्थल मौजा फुटकाडीह, थाना पेटरवार, थाना नंबर 37, खाता नंबर 25, प्लॉट नंबर 459 के रकबा 3.26एकड़ क्षेत्र (आवेदित क्षेत्र/चिह्नित एरिया) से संबंधित वांछित सूचना निम्नवत है :

1. आवेदित क्षेत्र अधिसूचित एवं सीमांकित सुरक्षित वनभूमि नहीं है, परंतु प्रस्तावित स्थल के खतियान में भूमि का किस्म जंगल-झाड़ी दर्ज होने की स्थिति में माननीय सर्वोच्च न्यायालय के I.A. No. 292/1995 में दिनांक 12.12.1996 को पारित आदेश के अनुसार कोई भी गैर वानिकी कार्य भारत सरकार की पूर्वानुमति के बिना नहीं किया जाएगा।
2. आवेदित क्षेत्र से वनभूमि की न्यूनतम दूरी 250 (दो सौ पचास) मीटर से अधिक है।
3. आवेदित क्षेत्र से 10 (दस) कि0मी0 की परिधि में झारखण्ड राज्य में कोई नेशनल पार्क (National Park) स्थित नहीं है।
4. आवेदित क्षेत्र से 10 (दस) कि0मी0 की परिधि में झारखण्ड राज्य में कोई अभ्यारण्य (Sanctuary) स्थित नहीं है।
5. आवेदित क्षेत्र से 10 (दस) कि0मी0 की परिधि में झारखण्ड राज्य में कोई घोषित जैव विविधता (Bio Diversity) क्षेत्र स्थित नहीं है।



तिश्यासभाजन,

वन प्रमण्डल पदाधिकारी,
बोकारो वन प्रमण्डल, बोकारो।
11/6/16

Project Manager Officer
B-100

पुण्यालय, अचल अधिकारी, चास (बोकारो)।

पत्रांक 193

45

अचल अधिकारी,
चास।

जिला खनन पदाधिकारी,
बोकारो।

विषय :-

चास, दिनांक : 30/1/19

बोकारो जिला के मौजा-गिरधरटाँड़ थाना-पिण्ड्राजोरा खाता नं०-01, 18 प्लॉट नं०-28(अंश), 23, 24, 25, 26, 27(अंश) रकवा-7.50 ए० क्षेत्र पर मेसर्स स्तार कन्सट्रक्सन प्रा० लि०, प्रो० 1. श्री उसमान अंसारी पिता-स्व० युनुसुद्दीन अंसारी, ग्राम-लालपुर थाना-चन्दाकियारी 2. श्री अमीत कुमार सोनी पिता-विशेश्वर सोनी सा०-राम नगर कॉलोनी, चास को पत्थर खनन पट्टा की स्वीकृति हेतु अनापत्ति प्रमाण पत्र निर्गत करने हेतु जाँच प्रतिवेदन का प्रेषण।
आपके कार्यालय पत्रांक-182/खनन दिनांक-18.01.19

प्रसंग :-
महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के द्वारा मेसर्स स्तार कन्सट्रक्सन प्रा० लि०, प्रो०

1. श्री उसमान अंसारी पिता-स्व० युनुसुद्दीन अंसारी, ग्राम-लालपुर थाना-चन्दाकियारी 2. श्री अमीत कुमार सोनी पिता-विशेश्वर सोनी सा०-राम नगर कॉलोनी, चास को बोकारो जिला के मौजा-गिरधरटाँड़ थाना-पिण्ड्राजोरा खाता नं०-01, 18 प्लॉट नं०-28(अंश), 23, 24, 25, 26, 27(अंश) रकवा-7.50 ए० क्षेत्र पर पत्थर खनन पट्टा की स्वीकृति हेतु अनापत्ति प्रमाण पत्र निर्गत करने संबंधी पत्र पर संबंधित हल्का कर्मचारी के द्वारा स्थानीय जाँचोपरांत बिन्दुवार प्रतिवेदन निम्नवत् है :-

1. आवेदित भूमि खाता नं०-01, 18 प्लॉट नं०-28(अंश), 23, 24, 25, 26, 27(अंश) रकवा-7.50 ए० भूमि किल्ला गेड तीन, कनाली एवं नतुन पत्थर है।
2. आवेदित क्षेत्र के 50 मीटर के अन्दर धार्मिक स्थल, चारागाह, श्मशान घाट या सार्वजनिक स्थल नहीं है।
3. आवेदित क्षेत्र के अन्दर के साथ बन्दोबस्त या हस्तांतरित नहीं है।
4. सर्व खतियान के अनुसार खाता नं०-01, 18 प्लॉट नं०-28(अंश), 23, 24, 25, 26, 27(अंश) रकवा- 7.50 ए० भूमि किल्ला गेड तीन कनाली एवं नतुन पत्थर है।
5. आवेदित क्षेत्र खाता नं०-01, 18 प्लॉट नं०-28(अंश), 23, 24, 25, 26, 27(अंश) रैयती खाते की है, जो खतियानी है। खतियानी रैयत के वंशजों से सहमति प्राप्त है, जो संलग्न है।
6. पंजी-11 में खाता नं०-01, 18 प्लॉट नं०-28(अंश), 23, 24, 25, 26, 27(अंश) रकवा-7.50 ए० भूमि का जमाबंदी पंजी-11 के पृ० सं०-67 एवं 112 में नकुल रजवार दी० एवं लक्ष्मी नारायण ओझा दी० के नाम दर्ज है, जिससे संबंधित वंशावली संलग्न है।
7. आवेदित भूमि खाता नं०-01, 18 प्लॉट नं०-28(अंश), 23, 24, 25, 26, 27(अंश) गैर आदिवासी खाते की है।

District Mining Office
Bokaro

8. आवेदित क्षेत्र के 500 मीटर की दुरी के अंदर कोई मानव बसाहट (Habitation) स्थित नहीं है।
9. आवेदित क्षेत्र के 500 मीटर की दुरी के अंदर कोई जलीय निकाय Dam/Reservoir नहीं है।
10. आवेदित क्षेत्र के 500 मीटर की दुरी के अंदर कोई नदी (River) स्थित नहीं है।
11. आवेदित क्षेत्र के 500 मीटर की दुरी के अंदर कोई शैक्षणिक संस्थान (Educational Institute) नहीं है।
12. आवेदित क्षेत्र के 500 मीटर की दुरी के अंदर कोई चिकित्सालय (Hospital) स्थित नहीं है।
13. आवेदित क्षेत्र के 10 किलो मीटर की दुरी के अंदर को अन्तराज्यीय (Interstate) सीमा नहीं है।
14. आवेदित क्षेत्र के 500 मीटर की दुरी के अंदर कोई राष्ट्रीय धरोहर/पुरातत्विय (Monuments Archaeological) महत्व का स्थल स्थित नहीं है।
15. आवेदित क्षेत्र सरकार द्वारा अपने उपयोग के लिए स्थानीय प्राधिकार अथवा किसी जनहित अथवा विशेष उद्देश्य के लिए सुरक्षित भूमि के रूप में अधिसूचित नहीं है।

अतः हल्का कर्मचारी से प्राप्त प्रतिवेदन के आधार पर मौजा-गिरधरवाँड़ के खाता नं०-01, 18 प्लॉट नं०-28(अंश), 23, 24, 25, 26, 27(अंश) रकबा-7.50 ए० भूमि क्षेत्र पर पत्थर खनन पट्टा हेतु अनापति प्रमाण पत्र निर्गत करने के लिए अनुशंसा की जाती है।

विश्वासभाजन

अंचल अधिकारी,
30/01/19

District

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Department of Forest, Environment and Climate Change

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

M/S STAR CONSTRUCTION PRIVATE LIMITED
Non Government
soniamt038@gmail.com

Location of Proposed Land

Contact no.: 7604767173

Bokaro
112
1.18

Battery Point GIRDHARTAND
Thana Name PINDRAJORA
Khesra Name 28P,23,24,25,26,27P

Checkpoint

- 1 Whether the proposed land falls outside notified forest boundary or not? Yes
- 2 Distance of Battery Point from Notified Forest Land (meters) * 405
- 3 Is there any National Park situated within a radius of 10 km from the battery point? * No
- 4 Is there any Wildlife Sanctuary situated within a radius of 10 km from the battery point? * No
- 5 Is the proposed project situated in any Eco Sensitive Zone? * No
- 6 Is there any notified Bio-Diversity area within a radius of 10 km from the battery point? * No

Divisional Forest Officer	Range Forest Officer
Yes	No
405	965
No	No
No	No
No	No
No	No

Division DF0 Bokaro

Letter No 843

Date of issue 11/03/2019

Signature [Signature]

Name [Name]

Divisional Forest Officer
Bokaro Forest Division
Bokaro

Amist Kumar Singh



[Signature]
District Mining Officer
Scanned by CamScanner

अंचल अधिकारी का कार्यालय, चन्दनकियारी।

पत्रांक 149

40

अंचल अधिकारी,
चन्दनकियारी।

जिला खनन् पदाधिकारी,
बोकारो।

चन्दनकियारी दिनांक:- 19/02/2020

विषय:- बोकारो जिला के मौजा-भाराजोरी, थाना-चन्दनकियारी, खाता सं०-113, 339, प्लॉट सं०-1938(अंश), 1946(अंश), रकवा-3.55 एकड़ क्षेत्र पर पत्थर खनन् पट्टा की स्वीकृति हेतु मो० नईम अंसारी, पिता-स्व० हाजी कासिम अली अंसारी, ग्राम-नौडीहा, पो०-बाँसतोड़ा, थाना-चन्दनकियारी, जिला-बोकारो, द्वारा दाखिल आवेदन पत्र के संबंध में।

प्रसंग- भावदीय पत्रांक-424, दिनांक- 12.02.2020।

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के संबंध में कहना है, कि चन्दनकियारी अंचल अंतर्गत मौजा-भाराजोरी, थाना-चन्दनकियारी, खाता सं०-113, 339, प्लॉट सं०-1938(अंश), 1946(अंश), रकवा-3.55 एकड़ क्षेत्र पर पत्थर खनन् पट्टा की स्वीकृति हेतु मो० नईम अंसारी, पिता स्व० हाजी कासिम अली अंसारी, ग्राम-नौडीहा, पो०-बाँसतोड़ा, थाना-चन्दनकियारी, के वांछित प्रतिवेदन निम्नांकित है:-

1. प्रासंगिक पत्र की कंडिका 6 में वर्तमान रैयत के पूर्वज का सत्यापित कुर्सीनामा संलग्न कर मॉंगा गया है। इस प्रतिवेदन के साथ पंचायत-बोरियाडीह के मुखिया द्वारा सत्यापित रैयत के पूर्वज का कुर्सीनामा संलग्न कर दिया गया है। जिसकी मूल प्रति संलग्न है।
2. कंडिका 10 में आवेदित क्षेत्र से कुल कितनी दुरी पर नदी स्थित है का स्पष्ट प्रतिवेदन मॉंगा गया है जिसके संबंध में अंचल अमीन के द्वारा प्लॉट सं-1946 का मापी की गई तो प्लॉट के उत्तर-पूर्वी छोर से प्रस्तावित स्थल एवं नदी की दुरी लगभग 300 मीटर है। अतः प्रतिवेदन अग्रेतर कार्रवाई हेतु समर्पित।

अंचल अमीन
19/02/2020

राजस्व उप-निरीक्षक
हल्का सं०-VII

अंचल निरीक्षक
चन्दनकियारी।

विश्वासभाजन,
अंचल अधिकारी
चन्दनकियारी
19/02/2020

District Mining Officer
Bokaro

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Department of Forest, Environment and Climate Change

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

Mr. Naim Ansari

abdulhalimansari1986@gmail.com

Contact no.: 9939503396

Location of Proposed Land

Bokaro
182
113.339

Battery Point
Thana Name: BHARAJORI
Khesra Name: CHANDANKIYARI
1938P.1946P

Checkpoint

	Divisional Forest Officer	Range Forest Officer
Whether the proposed land falls outside notified forest boundary or not?	Yes	No
Distance of Battery Point from Notified Forest Land (meters):	1000	1000
Is there any National Park situated within a radius of 10 km from the battery point?	No	No
Is there any Wildlife-Sanctuary situated within a radius of 10 km from the battery point?	No	No
Is the proposed project situated in any Eco Sensitive Zone?	No	No
Is there any notified Bio-Diversity area within a radius of 10 km from the battery point?	No	No

Division: DFO Bokaro

Letter No. 1002

Date of issue: 24/03/2019

Signature: *[Signature]*

Name: *[Signature]*
Divisional Forest Officer
Bokaro Forest Division
Bokaro

[Handwritten signature]
06/04/19

[Handwritten signature]
06/04/19

[Handwritten signature]
Joint Mining Officer
Bokaro

कार्यालय, अंचल अधिकारी, बेरमों, (बोकारो)

पत्रांक.....१४१.....

अंचल अधिकारी,
बेरमों,बोकारो ।

जिला खनन पदाधिकारी,
बोकारो ।

बेरमों/दिनांक.....१६.१२.१८

विषय:- अंचल बेरमो अन्तर्गत मौजा अरमो के खाता सं० 12, प्लॉट सं० 54, रकवा 1.52 ए० ६ पर पत्थर खनन पट्टा की स्वीकृति हेतु जांच प्रतिवेदन।

प्रसंग- भवदीय पत्रांक- 3178/खनन दिनांक- 04.12.2018।

महाशय,

उपर्युक्त प्रासंगिक विषय के संबंध में अरमो अन्तर्गत विषयांकित भूमि खाता नं० 12, प्लॉट नं० 54, रकवा 1.52 ए० भूमि पर मेसर्स खुशबु स्टोन माईस प्रो० श्री रतन लाल यादव पिता श्री गोपा यादव, ग्राम अरमो बस्ती, थाना बी०टी०पी०एस० जिला बोकारो, झारखण्ड द्वारा खनन पट्टा स्वीकृति हेतु दिये गये आवेदन के आलोक में बिन्दुवार जांच प्रतिवेदन की मांग की गयी है जो निम्नवत् है:-

1. आवेदित क्षेत्र रैयती है।
2. उक्त क्षेत्र किसी व्यक्ति के साथ बंदोबस्त या हस्तांतरित नहीं है।
3. खतियान के अनुसार आवेदित क्षेत्र का किसम रैयती टांड तीन है।
4. आवेदित क्षेत्र पर आवेदक को रैयत की सहमति प्राप्त है। एकरारनामा की सत्यापित प्रति संलग्न है।
5. रजिस्टर 2 में रैयत के पिता वगै० के नाम से दर्ज है। वर्तमान रैयत रजिस्टर 2 रैयत का वंशज है। सत्यापित कुर्सीनामा संलग्न है।
6. रैयत आदिवासी है CNT Act के अन्तर्गत आते है।
7. आवेदित क्षेत्र के 500 मी० की दूरी के अन्दर कोई मानव बसाहट नहीं है।
8. आवेदित क्षेत्र के 500 मी० की दूरी के अन्दर कोई जलीय निकाय नहीं है।
9. आवेदित क्षेत्र के 500 मी० की दूरी के अन्दर कोई नदी नहीं है।
10. आवेदित क्षेत्र के 500 मी० की दूरी के अन्दर कोई शैक्षणिक संस्थान नहीं है।
11. आवेदित क्षेत्र के 500 मी० की दूरी के अन्दर कोई चिकित्सालय नहीं है।
12. आवेदित क्षेत्र के 10 कि०मी० की वरिधि में कोई अन्तर्राज्यीय सीमा नहीं है।
13. आवेदित क्षेत्र के 500 मी० की दूरी के अन्दर कोई राष्ट्रीय धरोहर/पुरातत्वीय महत्व के स्थल नहीं है।
14. आवेदित क्षेत्र सरकार द्वारा अपने उपयोग के लिए स्थानीय प्राधिकारी अथवा किसी जनहित अथवा विश्वसनीय व्यक्ति के लिए सुरक्षित भूमि के रूप में अधिसूचित नहीं किया गया है।

उक्त जांच प्रतिवेदन सादर सूचनार्थ समर्पित।

विश्वासभाजन
अंचल अधिकारी,
बेरमों (बोकारो)

District Mining Officer

Inspection Report of Distance from Forest, Forest Reserve and Sanctuary

29

Department of Forest, Environment and Climate Change

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

Name Of Applicant
Institution Type
Email ID

MS KHUSHBOO STONE MINES
Non Government
monishyadav9955989225@gmail.co

Location of Proposed Project

Contact no: 9955989225

District
Thana No
Khata No

Bokaro
11
12

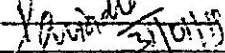
Battery Point
Thana Name:
Khesra Name:

ARMO
NAWADIII
54

Checkpoint	Divisional Forest Officer Range Forest Officer	
	Yes	No
1. Whether, the proposed land falls outside notified forest boundary or not? *	Yes	Yes
2. Distance of Battery Point from Notified Forest Land (meters) *	400	400
3. Is there any Wildlife Sanctuary situated within a radius of 10 km from the battery point? *	No	No
4. Is there any Eco Sensitive Zone? *	No	No
5. Is there any notified Bio-Diversity area within a radius of 10 km from the battery point? *	No	No

Division DFO Bokaro

Letter No. 376

Signature: 
Name: 21/10/19

Divisional Forest Officer





District Mining Officer

कार्यालय अंचल अधिकारी, पेटरवार।

पत्रांक :-...299.....

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अंचल अधिकारी
पेटरवार

जिला खनन् पदाधिकारी,
बोकारो।

पेटरवार/दिनांक :- 07.05.18.

विषय:- बोकारो जिला के मौजा नावाडीह, थाना-पेटरवार, खाता सं0-110,111 प्लॉट सं0-630 (अंश), 658 (अंश), कुल रकवा-4.00 ए0 क्षेत्र पर पटर खनन् पट्टा की स्वीकृति हेतु तिरुपति स्टोन माईन्स प्रो0 श्री उपेन्द्र नाथ मांझी, पिता श्री विनोद मांझी, ग्राम+पो0-जैनामोड़, थाना-जरीडीह, जिला-बोकारो द्वारा दाखिल आवेदन पत्र के जाँच के संबंध में।

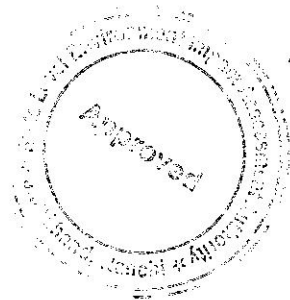
प्रसंग:- भवदीय के पत्रांक 1248/खनन् दिनांक 31.03.2018
महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के आलोक में संबंधित हल्का कर्मचारी एवं अंचल निरीक्षक से जाँच कराई गई जाँच प्रतिवेदन के आधार पर बिन्दुवार जांच प्रतिवेदन निम्नलिखित है-

1. आवेदित क्षेत्र मौजा-नावाडीह, थाना सं0-52, खाता सं0 110,111, कुल रकवा-4.00 ए0 भूमि रैयती खाते की है।
2. आवेदित क्षेत्र किसी व्यक्ति या विभाग के नाम से हस्तांतरित या बन्दोबस्त नहीं है।
3. सर्वे खतियान के अनुसार आवेदित क्षेत्र का किस्म टांड II एवं III, दर्ज है।
4. आवेदित क्षेत्र रैयती खाते की है तथा आवेदक को रैयत का सहमति प्राप्त है। जिसकी सुलभ प्रति संलग्न है।
5. पंजी II में खाता सं0-110, का जमाबंदी खतियानी रैयत के वंशज मुचिया मांझी के नाम से पृष्ठ सं0 1/85 में दर्ज है। तथा खाता सं0-111, का जमाबंदी खतियानी रैयत शुक्ल मांझी के नाम से पंजी II के पृष्ठ सं0-1/29 पर दर्ज है। सत्यापित वंशावली संलग्न है।
6. रैयत आदिवासी है। छोटानागपुर काश्ताकारी अधिनियम के प्रावधानों के तहत खनन् पट्टा की स्वीकृति हेतु अनुशंसा की जा सकती है।
7. आवेदित क्षेत्र के 500 मी0 के दूरी के अंदर मानव बसाहट स्थित नहीं है।
8. आवेदित क्षेत्र के 500 मी0 के दूरी के अंदर कोई जलीय निकाय स्थित नहीं है।
9. आवेदित क्षेत्र के 500 मी0 की दूरी के अंदर नदी स्थित नहीं है।
10. आवेदित क्षेत्र के 500 मी0 के दूरी के अंदर शैक्षणिक संस्थान स्थित नहीं है।
11. आवेदित क्षेत्र के 500 मी0 के दूरी के अंदर चिकित्सालय स्थित नहीं है।
12. आवेदित क्षेत्र के 10 किलो0 मी0 के दूरी के अंदर अन्तराज्य सीमा नहीं है।
13. आवेदित क्षेत्र के 500 मी0 के दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातत्वीय महत्व के स्थल नहीं है।
14. आवेदित क्षेत्र सरकार द्वारा अपने उपयोग के लिए स्थानीय प्राधिकारी यथया किसी जनहित अथवा किसी विशेष उद्देश्य के लिए सुरक्षित भूमि के रूप में अधिसूचित नहीं किया गया है।

अतः जांच प्रतिवेदन अग्रोतर कार्रवाई हेतु प्रेषित।

अनुलग्नक :- यथोक्त।



विश्वस भाजन
अंचल अधिकारी
पेटरवार।
02/5/18

District Mining Officer

40

Government of Jharkhand

Department of Forest, Environment and Climate Change

Permission Letter : LETTER20180420

ACK No: SWSFST23032018fb655

Issue Date: 20-04-2018

Report of Distance from Forest, Forest Reserve and Sanctuary

SNo	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Distance of battery point from the Unit	800	800
2	Is the proposed land situated inside or outside the forest boundary?	Yes	Yes
3	Does the proposed land contain rocks?		
4	Are there any trees or plants on the proposed land?	No	No
5	Legal status of the proposed land- Does the proposed land fall under notified forest area?		
6	What will be the effect on environment after mining of stones from the proposed land?		
7	Is there any wildlife present on the proposed land?		
8	Is there any National Park situated within 10 km of the land?	No	No
9	Is there any Sanctuary situated within 10 km of the land?	No	No
10	Is there any declared Bio-Diversity patch within 10 km of the land?	No	No

Name : [Signature]

Designation : DFO, Bokaro Forest Division

Signature : Divisional Forest Officer
Bokaro Forest Division
Bokaro

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



Ujjendra Nath Nayshi

20-04-2018 17:55

[Signature]

District Forest Officer
Bokaro

कायालय, अंचल अधिकारी, चास(बोकारो)।

पत्रांक 747.....

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प्रेषक,

अंचल अधिकारी,
चास।

सेवा में,

जिला खनन पदाधिकारी,
बोकारो।

विषय :

चास, दिनांक 7/5/2020

बोकारो जिला के पिण्ड्राजोरा थानान्तर्गत मौजा-केलियाडाबर, के खाता नं०-108 प्लॉट नं०-1746 रकवा-4.46 एकड़ भूमि पर पत्थर खनन की स्वीकृति हेतु मेसर्स ज्योति मिनर्ल्स प्रो० श्री मोहन लाल जैन पिता-स्व० श्रीराम जैन पता-सी/38 सिटी सेन्टर, सेक्टर-4 बोकारो के आवेदन पर जाँच प्रतिवेदन का प्रेषण।

प्रसंग :

आपके कार्यालय पत्रांक-140/खनन दिनांक- 14.01.2020 एवं पत्रांक-951 दिनांक-21.03.2020

महाषय,

उपर्युक्त विषयक प्रासंगिक पत्र के द्वारा बोकारो जिला के पिण्ड्राजोरा थानान्तर्गत मौजा-केलियाडाबर, के खाता नं०-108 प्लॉट नं०-1746 रकवा-4.46 एकड़ भूमि पर पत्थर खनन की स्वीकृति हेतु मेसर्स ज्योति मिनर्ल्स प्रो० श्री मोहन लाल जैन पिता-स्व० श्रीराम जैन पता-सी/38 सिटी सेन्टर, सेक्टर-4 बोकारो के आवेदन पर स्वीकृति हेतु प्राप्त कागजातों की जाँचोपरांत संबंधित हल्का राजस्व कर्मचारी का अंचल निरीक्षक के माध्यम से विन्दुवार प्राप्त प्रतिवेदन(छायाप्रति संलग्न) पूर्व में इस कार्यालय पत्रांक-140/खनन दिनांक-14.01.2020 के द्वारा भेजी गई थी, जिसमें प्लॉट नं०-1746 के स्थान पर 7046 टंकणिय भूलवश अंकित हो गया था, जिसे सुधार करते हुए पुनः प्रतिवेदन भेजी जा रही है, जो निम्नवत् है :-

1. आवेदित भूमि रैयती खाते की है।
2. आवेदित क्षेत्र के 50 मीटर के अन्दर धार्मिक स्थल, चारागाह, श्मशान घाट या सार्वजनिक स्थल नहीं है।
3. आवेदित क्षेत्र किसी भी संस्थान या व्यक्ति के पास बन्दोबस्त/हस्तांतरित नहीं है।
4. आवेदित क्षेत्र के अन्दर आवेदित क्षेत्र का कितना रोड तीन है।
5. आवेदित क्षेत्र रैयती एवं रैयत द्वारा आवेदक को सहमती प्राप्त है, जो संलग्न है।
6. नं०-1 के प्लॉट-1/143 में कुंजू नहतो दी० के नाम से दर्ज है जो सहमतिदाता के परमितामह लगते हैं।
7. रैयत आवेदिका नहीं है। एकरारनामा करने वाले जाति के कुर्मी है जो C.N.T. ACT के अन्तर्गत आता है लेकिन आवेदित भूमे विक्री नहीं किए है सिर्फ 4 वर्ष 11 महीना 28 दिन के लिए पत्थर खनन हेतु एकरारनामा किया गया है।
8. आवेदित क्षेत्र से 500 मीटर की दूरी के अन्दर कोई मानव बसाहट स्थित नहीं है।
9. आवेदित क्षेत्र के 500 मीटर की दूरी पर कोई जल निकाय नहीं है।
10. आवेदित क्षेत्र के 500 मीटर की दूरी पर कोई नदी स्थित नहीं है।
11. आवेदित क्षेत्र के 500 मीटर की दूरी पर कोई चिकित्सालय संस्थान नहीं है।
12. आवेदित क्षेत्र के 250 मीटर दूरी के अन्दर कोई शैक्षणिक स्थित नहीं है।
13. आवेदित क्षेत्र के 10 कि०मी० की परिधि में कोई अन्ताराज्जीय सीमा नहीं है।



Mansu K. Das
District Mining Officer
Bokaro

14. आवेदित क्षेत्र के 500 मीटर दूरी के अन्दर कोई राष्ट्रीय धरोहर/पुरातत्वीय महत्व स्थल नहीं है।
15. आवेदित भूमि की कोटि सर्वे खतियान में जंगल झाड़ी दर्ज नहीं है।
16. आवेदित क्षेत्र के पर सरकार द्वारा किसी प्रकार का जनहीत विषय उद्देश्य के लिए भूमि अधिसूचित नहीं किया गया है।

उपरोक्त प्राप्त प्रतिवेदन के आधार पर मौजा-केलियाडावर, के खाता नं-108 प्लॉट नं-1746 रकवा-4.46 एकड़ भूमि पर पत्थर खनन की स्वीकृति हेतु अग्रोत्तर कार्रवाई किया जा सकता है।

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के

Handwritten signature
07/05/2020

निश्वासभाजन
Handwritten signature
अंचल अधिकारी,
चौंस
22/04/2020



Handwritten signature
District Mining Officer
Bafra



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Department of Forest, Environment and Climate Change

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

NAME: BHANU JAIN

EMAIL: bhanujain@gmail.com

Contact no.: 9955448850

Location of Proposed Land

Battery Point: MOUZA-KELIADABAR.PS-PINDRAJORA
Thana Name: PINDRAJORA
Khesra Name: 1746

Checkpoint

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

Division DFO Bokaro

Letter No. 634

Date of issue 17.03.2020

Signature

Name: Divisional Forest Officer

Divisional Forest Officer

The minimum distance from the notified forest is 760 metre.



Uttam Singh

[Signature]

Divisional Forest Officer

Government of Jharkhand

Department of Forest, Environment and Climate Change

Permission Letter : LETTER20200316

No: SWSPST15012020a14a

Issue Date: 16-03-2020

Applicant :

MOHAN IAL JAIN

jyotimineralschas@gmail.com

Contact no.: 9955448850

Report of Distance from Forest, Forest Reserve and Sanctuary

Checkpoint

Divisional Forest Officer

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

Yes

Whether Project location come under No Mining Zone?

No

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

No

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

No

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

No

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

No

The minimum distance from the notified forest is 760 metre.

Name : _____

Designation : _____

Signature : _____

Divisional Forest Officer
Bokaro Forest Division
Bokaro

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



Mohan Lal Jain

District Mining Officer
Bokaro

कार्यालय अंचल अधिकारी, पेटरवार।

पत्रांक :- 337.....

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Steno
22/6/2020

सेवा में,

अंचल अधिकारी
पेटरवार

सेवा में,

जिला खनन पदाधिकारी,
बोकारो।

पेटरवार/दिनांक :- 18/06/2020

विषय:-

बोकारो जिला के पेटरवार थानान्तर्गत, मौजा- नावाडीह, के खाता नं०-110, प्लॉट नं०-632, 633, 634, 635, 637, 638, 639, 641, 642, 644, 645, 647, 648, 649, 653, 654, 651 कुल रकबा-5.25 एकड़ क्षेत्र पर पत्थर खनन पट्टा की स्वीकृति हेतु मेसर्स ज्योति मिनर्ल्स, प्रो० श्री मोहन लाल जैन, पिता- स्व० श्रीराम जैन, पता-सी/38, सिटी सेंटर, सेक्टर-4, बोकारो स्टील सिटी, जिला-बोकारो, द्वारा दायित्व आवेदन पत्र के संबंध में।

प्रसंग:-
महाशय,

भवदीय के पत्रांक 1613/खनन दिनांक 16.06.2020

उपर्युक्त विषयक प्रासंगिक पत्र के आलोक में संबंधित हल्का राजस्व उपनिरीक्षक एवं अंचल निरीक्षक से जाँच कराई गई जाँच प्रतिवेदन के आधार पर बिन्दुवार जांच प्रतिवेदन निम्नलिखित है-

1. आवेदित भूमि मौजा- नावाडीह, थाना नं०- 52 के खाता नं०- 110, प्लॉट नं०- 632, 633, 634, 635, 637, 638, 639, 641, 642, 644, 645, 647, 648, 649, 653, 654, 651 कुल रकबा- 5.25 ए० भूमि रैयती खाते की है।
2. आवेदित क्षेत्र 50 मीटर के अन्दर धार्मिक स्थल, चारागाह, श्मशान घाट या सार्वजनिक स्थल नहीं है।
3. क्षेत्र किसी व्यक्ति या विभाग के साथ बंदोबस्त या हस्तारित नहीं है।
4. खतियान के अनुसार आवेदित क्षेत्र का किस्म दोन I मोटा आर, टॉड III, टॉड II एवं प्रति गड़हा दर्ज है।
5. आवेदित क्षेत्र रैयती खाते कि है तथा आवेदक को रैयत का सहमति प्राप्त है। छाया प्रति संलग्न है। (BD/BA No. 21052/ SC No. -521/DATE 27/01/2020)
6. पंजी II में रैयत के पूर्वज मुचिया मांझी का नाम पंजी II के पृष्ठ सं- 85/1 में दर्ज है। वर्तमान रैयत पंजी II में आंकित रैयत का वंशज है। कुसीमांगा संलग्न है।
7. रैयत आदिवासी है छोटा नागपुर काश्तकारी अधिनियम के प्रावधानों के तहत आवेदक को पत्थर खनन पट्टा कि स्वीकृति दी जा सकती है।
8. आवेदित क्षेत्र के 500 मी० के दूरी के अंदर कोई मानव बसाहट नहीं है।
9. आवेदित क्षेत्र के 500 मी० की दूरी के अंदर कोई जलीय निकाय नहीं है।
10. आवेदित क्षेत्र के 500 मी० के दूरी के अंदर कोई नदी नहीं है।
11. आवेदित क्षेत्र के 500 मी० के दूरी के अंदर कोई शैक्षणिक संस्थान नहीं है।
12. आवेदित क्षेत्र के 500 किलो० मी० के दूरी के अंदर कोई चिकित्सालय नहीं है।
13. आवेदित क्षेत्र के 10 कि० मी० कि परिधि में कोई अन्तर्राज्यीय सीमा नहीं है।
14. आवेदित क्षेत्र के 500 मी० कि दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातात्वीय महत्व स्थल नहीं है।
15. आवेदित भूमि कि कोटि सर्वे खतियान तथा पंजी II में जंगल झाड़ी दर्ज नहीं हैं।
16. आवेदित क्षेत्र सरकार द्वारा अपने उपयोग के लिए स्थानीय प्राधिकारी अथवा किसी जनहित अथवा केट्टे विदेश प्रदेश के लिए सुरक्षित भूमि के रूप में अधिसूचित नहीं किया गया है। इस कार्यालय के नंबर-246, दिनांक-09.04.2018 के द्वारा उपरोक्त खाता प्लॉट का पत्थर खनन पट्टा की स्वीकृति हेतु रजिस्ट्रार माइनिंग लिमिटेड का भूमि प्रतिवेदन भवदीय के कार्यालय को उपलब्ध कराया गया है।

उपरोक्त प्रतिवेदन अग्रेतर कार्यवाई हेतु प्रेषित।

अनुसूचक - दफ्त

विश्वनाथ भाजन

अंचल अधिकारी

पेटरवार।

Mono 24 20

District Mining Officer
Bokaro



Department of Forest, Environment and Climate Change

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

Name of Applicant: MOHAN JAIN
 Constitution Type: Non Government
 Contact No: 9977418850

Location of Proposed Land

District: Bokaro
 Battery Point: Mouza-Nawadh, Ps-Peterwar
 Thana Name: Peterwar
 Khesra No: 52
 Khesra Name: 632, 633, 634, 635, 637, 638, 639, 641, 642, 644, 645, 647, 648, 649, 650, 651, 652, 653, 654

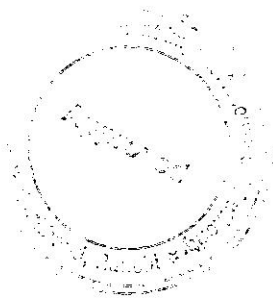
Checkpoint	Range Forest Officer	Divisional Forest Officer
Whether Distance of Project location from Reserved Forest/Protected Forest is 250 m?	Yes	Yes
Whether Project location come under No Mining Zone?	No	No
Does there any National park located within 10 km from project location?	No	No
Does there any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

Note- The minimum distance of the project site from the notified forest is 1000 meter.

Division: DFO Bokaro
 Letter No: 720
 Date of issue: 25/03/2020
 Signature: _____
 Name: _____

Divisional Forest Officer

Mohan Jain



[Signature]
 District Mining Officer
 Bokaro

कार्यालय अंचल अधिकारी, पेट्टरवार।

पत्रांक :- 745

102

अंचल अधिकारी
पेट्टरवार

सेवा में,

जिला खनन पदाधिकारी,
बोकारो।

पेट्टरवार/दिनांक :- 26/10/19

विषय:-

बोकारो जिला के पेट्टरवार थानामार्गत मौजा-पिछरी, थाना-पेट्टरवार, खाता संख्या-81,107 प्लॉट सं0-3071(अंश),3072,3076 रकबा-3.12 ए0 क्षेत्र पर पत्थर खनन पट्ट की स्वीकृति हेतु, श्री भगवान सिंह पिता-स्व0 मेघु सिंह याम-बेरमो सीमा,पो0-बेरमो, थाना-बेरमो, जिला-बोकारो, द्वारा दायित्व आवेदन पत्र के संबंध में। भवदीय के पत्रांक 2570/खनन दिनांक 13.09.2019

प्रसंग:-
महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के आलोक में संबंधित डल्का कर्मचारी एवं अंचल निरीक्षक से जांच कराई गई जांच प्रतिवेदन के आधार पर बिन्दुवार जांच प्रतिवेदन निम्नलिखित है-

1. आवेदित क्षेत्र मैजा पिछरी थाना नं0-49 के खाता नं0-81, प्लॉट नं0-3071 रकबा-0.37 ए0 प्लॉट नं0-3076 रकबा-1.87 ए0 एवं खाता नं0-107 प्लॉट नं0-3072 रकबा-0.88 ए0 सर्वे खतियान के अनुसार रैयती खाते की है।
2. आवेदित क्षेत्र के 50 मीटर के अंदर धार्मिक स्थल, चारागाह, शमशान घाट या सार्वजनिक निकाय स्थल नहीं है।
3. आवेदित क्षेत्र किसी व्यक्ति के नाम से बंदोबरल या हस्तांतरित नहीं है।
4. सर्वे खतियान के अनुसार आवेदित क्षेत्र का किरम टांड II दर्ज है।
5. आवेदित क्षेत्र रैयती खाते कि है जो आवेदक के खास वो उनके पुत्र रितेश रोशन के नाम से खरीदगी द्वारा हासिल है तथा अंश भाग प्लॉट सं0-3072 जो अन्य रैयत सोबरन सिंह के नाम से है जिसने आवेदक को रैयत(वर्तमान) की सहमति प्राप्त है। जिसकी प्रति संलग्न है।
6. पंजी II के पृष्ठ सं0-XIV/173 में आवेदक भगवान सिंह के नाम से एवं पृष्ठ सं0-XIV/38 में आवेदक के पुत्र रितेश रोशन के नाम से तथा पंजी II के पृष्ठ सं0-VI/46 में रैयत सोबरन सिंह के नाम से जामाबंदी कायम है। कुर्सीनामा की सत्यापित प्रति संलग्न है।
7. रैयत आदिवासी नहीं है।
8. आवेदित क्षेत्र के 500 मी0 के दूरी के अंदर कोई मानव बसाहट नहीं है।
9. आवेदित क्षेत्र के 500 मी0 के दूरी के अंदर कोई जलीय निकाय (Dam/Reservoir) स्थित नहीं है।
10. आवेदित क्षेत्र के 500 मी0 की दूरी के अंदर नदी (River) स्थित नहीं है।
11. आवेदित क्षेत्र के 500 मी0 के दूरी के अंदर शैक्षणिक संस्थान स्थित (Educational Institute) नहीं है।
12. आवेदित क्षेत्र के 500 मी0 के दूरी के अंदर चिकित्सालय (Hospital) स्थित नहीं है।
13. आवेदित क्षेत्र के 10 किलो0 मी0 के दूरी के अंदर अन्तराज्य सीमा (Interstate) नहीं है।
14. आवेदित क्षेत्र के 500 मी0 के दूरी के अंदर कोई राष्ट्रीय घरोहर/पुरातत्वीय महत्व के स्थल नहीं है।
15. आवेदित भूमि कि कोटि सर्वे खतियान तथा पंजी II में जंगल झाड़ी के रूप में दर्ज नहीं है।
16. आवेदित क्षेत्र सरकार द्वारा अपने उपयोग के लिए स्थानीय प्राधिकारी अथवा किसी जनहित अथवा किसी विशेष उद्देश्य के लिए सुरक्षित भूमि के रूप में अधिसूचित नहीं किया गया है।

अतः जांच प्रतिवेदन अग्रेतर कार्रवाई हेतु प्रेषित।

अनुलग्नक :- यथोक्त।



विदेवास भाजन

अंचल अधिकारी
पेट्टरवार।

26/10/19

District Mining Officer
Bokaro



101

Department of Forest, Environment and Climate Change

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

Name Of Applicant: SHRI BHAGWAN SINGH
 Institution Type: Non Government
 Email ID: ritesh.roshan07@gmail.com
 Contact no.: 9234991111

District: Bokaro
 Thana No.: 49
 Khata No.: 81,107,81

Location of Proposed Land
 Battery Point: PICHHRI
 Thana Name: PETARWAR
 Khesra Name: 3071P,3072,3076

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

The minimum distance of the project site from the notified forest is 500 meter.

Division DFO Bokaro


Letter No. 3528

Date of issue 29/11/2019

Signature

Name: Divisional Forest Officer
Bokaro Forest Division
 Divisional Forest Officer




 District Mining Officer
 Bokaro

कार्यालय अंचल अधिकारी, जरीडीह (बोकारो)

पत्रांक:- 784.....

सेवा में,

अंचल अधिकारी
जरीडीह।

सेवा में,

जिला खनन पदाधिकारी
बोकारो।

जरीडीह/दिनांक:- 29/08/2018

विषय :- जरीडीह थाना अन्तर्गत मौजा खुँटरी, थाना सं० 08 के खाता सं० 18, प्लॉट सं० 226 रकवा 5 एकड़ क्षेत्र पर पत्थर खनन स्वीकृति हेतु जाँच प्रतिवेदन के संबंध में।

प्रसंग:- भवदीय के पत्रांक 1927/खनन, दिनांक 27.06.2018

महाशय,

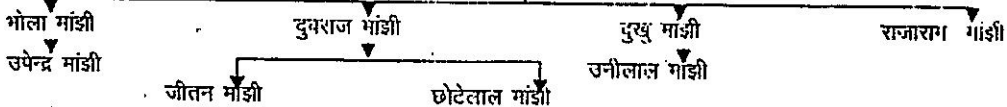
उपर्युक्त विषय के संबंध में कहना है कि जरीडीह थाना अन्तर्गत मौजा खुँटरी, थाना सं० 08 के खाता सं० 18, प्लॉट सं० 226 रकवा 5 एकड़ क्षेत्र पर पत्थर खनन स्वीकृति हेतु राजस्व उप-निरीक्षक के जाँच प्रतिवेदन आधार पर जाँच बिन्दुवार निम्नवत् हैं:-

- (1) आवेदित क्षेत्र रैयती खाता की हैं।
- (2) क्षेत्र किसी के साथ बन्दोबस्त या हस्तांतरित नहीं हैं।
- (3) खतियान के अनुसार आवेदित क्षेत्र का किस्म प्लॉट सं० 226 का किस्म टाँड़ दो सर्वे खतियान में दर्ज है।
- (4) आवेदित क्षेत्र रैयती है रैयत की सहमति आवेदक को Lease Agreement Sl. No. 261/14-04-2016 से प्राप्त है। Lease Agreement संलग्न हैं।
- (5) रजिस्टर II में टेला मांडी के नाम से पंजी II पृष्ठ सं० 80/1 में दर्ज हैं।

घशीया मांडी, पिता- दरगा मांडी

भुदन मांडी

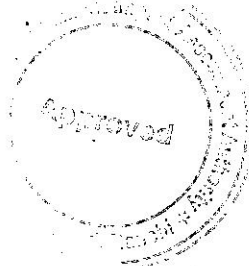
टेला राम मांडी



- (6) रैयत आदिवासी हैं। उपायुक्त की स्पष्ट अनुशंसा अनिवार्य हैं।
- (7) आवेदित क्षेत्र के 500 मीटर के अन्दर मानव बसाहट नहीं हैं।
- (8) आवेदित क्षेत्र के 500 मीटर के अन्दर कोई जलयोय निकाय स्थित नहीं हैं।
- (9) आवेदित क्षेत्र के लगभग 500 मीटर की दूरी के अन्दर पर नदी स्थित नहीं हैं।
- (10) आवेदित क्षेत्र के 500 मीटर की दूरी के अन्दर कोई शैक्षणिक संस्थान स्थित नहीं हैं।
- (11) आवेदित क्षेत्र के 500 मीटर की दूरी के अन्दर कोई चिकित्सालय स्थित नहीं हैं।
- (12) आवेदित क्षेत्र के 10 कि०मी० की परीधि में कोई अन्तर्राज्यीय सीमा नहीं हैं।
- (13) आवेदित क्षेत्र के 500 मीटर की दूरी के अन्दर कोई राष्ट्रीय धरोहर/पुरातत्वीय महत्व के स्थल स्थित नहीं हैं।
- (14) आवेदित क्षेत्र के सरकार द्वारा अपने उपयोग के लिए स्थलीय प्राधिकार अथवा किसी जनहित अथवा विशेष उद्देश्य के लिए सुरक्षित भूमि के रूप में अधिसूचित नहीं किया गया हैं।

सादर सूचनार्थ एवं अग्रप्रेर कार्रवाई हेतु समर्पित।

स. लि.
29/8/18



विश्वासभाजन

अंचल अधिकारी
जरीडीह।

District Mining Officer
Jharia



23

Department of Forest, Environment and Climate Change

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

Name of Applicant
Institution Type
Email ID

MS SAMLESHWARI MINERALS
Non Government
udyogadharbksc@gmail.com

Location of Proposed Land

Contact no.: 9939991011

District

Bokaro

Thana No.:

8

Khasra No.:

13

Battery Point
Thana Name: KHUTRI
Khesra Name: JARIDIH
226P

Divisional Forest Officer
Range Forest Officer

- | # | Checkpoint | Yes | No |
|---|---------------------------------------------------------------------------------------------|-----|----|
| 1 | Whether the proposed land falls outside notified forest boundary or not? * | Yes | No |
| 2 | Distance of Battery Point from Notified Forest Land (meters) * | 650 | No |
| 3 | Is there any National Park situated within a radius of 10 km from the battery point? * | No | No |
| 4 | Is there any Wildlife Sanctuary situated within a radius of 10 km from the battery point? * | No | No |
| 5 | Is the proposed project situated in any Eco Sensitive Zone? * | No | No |
| 6 | Is there any notified Bio-Diversity area within a radius of 10 km from the battery point? * | No | No |

Division DFO Bokaro

Letter No. 2476

Date of issue 28/10/18

Signature

Name

Divisional Forest Officer

23/9/19

24/10

29/11/18

District Mining Officer
Bokaro

संवा में, अंचल अधिकारी
पेटवार

50

द्वारा- अंचल निरीक्षक

(50)

विषय- मौजा पुटकाडीह थाना सं० 37 के अन्तर्गत खाता सं० 01 प्लॉट सं० 203 कुल रकवा 3.74 ए० मध्ये 2.30 ए० क्षेत्र पर पत्थर खनन की स्वीकृति हेतु श्री राधासोरेन पिता दशरथ नारायण श्री सोमर-नाथक वशीरह पिता दशरथ नारायण ग्राम नं० 01 उत्तासारा थाना-पेटवार जिला कोकारा द्वारा दारिद्र्य आवेदन के सम्बन्ध में जांच प्रतिवेदन।

महोदय, उपर्युक्त विषय के संदर्भ में स्थल सह राजस्व कबाजाती के आधार पर जांच प्रतिवेदन विद्युत्वार निम्नवत है:-

- 1 आवेदित क्षेत्र मौजा पुटकाडीह थाना सं० 37 के खाता सं० 01 प्लॉट सं० 203 कुल खरीदारी रकवा 3.74 ए० मध्ये 2.30 ए० है, जो बकास्त खाते की है।
- 2 आवेदित क्षेत्र के 50 मीटर के अन्दर धार्मिक स्थल, चारगाह दूरमज्ञानघाट या सार्वजनिक स्थल नहीं हैं।
- 3 उक्त क्षेत्र किसी व्यक्ति के साथ कब्रों का स्तंभ या हस्तान्तरित नहीं है।
- 4 रवतियान के अनुसार आवेदित क्षेत्र का क्रिस्म टांडा दर्ज है।
- 5 आवेदित क्षेत्र बकास्त खाते की है तथा रैयत की सहमति आवेदक को प्राप्त है।
- 6 पंजी 11 में रैयत का नाम दर्ज है।
- 7 जमाफंदी रैयत आदिवासी आदिवासी नहीं है।
- 8 आवेदित क्षेत्र के 500 मीटर की दूरी के अन्दर कोई मतव वसाहट स्थित नहीं है।
- 9 आवेदित क्षेत्र के 500 मीटर की दूरी के अन्दर कोई जलिय निकाय स्थित नहीं है।
- 10 आवेदित क्षेत्र के 500 मीटर की दूरी के अन्दर कोई नदी स्थित नहीं है।
- 11 आवेदित क्षेत्र के 500 मीटर की दूरी के अन्दर कोई शैक्षणिक संस्थान स्थित नहीं है।
- 12 आवेदित क्षेत्र के 500 मीटर की दूरी के अन्दर चिकित्सालय स्थित नहीं है।
- 13 आवेदित क्षेत्र के 10 कि० मीटर की परिधि में कोई अंतर्राज्यीय सीमा नहीं है।
- 14 आवेदित क्षेत्र के 500 मीटर की दूरी के अन्दर कोई राष्ट्रीय बायोस्फियर/पुरातत्वीय महत्व के स्थल स्थित नहीं है।

प्रकाश,
अंत्रेतर कारवाई अतः अंत्रेतर कारवाई हेतु सुमर्पित।
हेतु अग्रुहाला विभा
आता व
21/7/15



21/7/15
21/7/15

District Minister

कार्यालय अंचल अधिकारी, पेटरवार।

पत्रांक :- 561.....

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प्रेषक,

अंचल अधिकारी
पेटरवार

सेवा में,

जिला खनन् पदाधिकारी,
बोकारो।

पेटरवार/दिनांक :- 26.07/2020

विषय:-

बोकारो जिला के मौजा अंगवाली, थाना-पेटरवार, खाता सं०-180, प्लॉट सं०-2206, 2207, 2208, 2177, 2176, 2200, 2201, 2003, 2204, 2205, 2216, एवं 2217, कुल रकबा-6.37 ए० क्षेत्र पर पत्थर खनन् पट्टा की स्वीकृति हेतु मेसर्स सावित्री इन्टरप्राइजेज पार्ट० (1) प्रकाश मिश्रा पिता मुकेश मिश्रा, ग्राम-पिछरी, थाना-पेटरवार, जिला-बोकारो, (2) दुर्योधन महतो पिता स्व० कैलाश महतो, ग्राम-जामताड़ा, पो०+थाना-डुमरी, जिला-गिरीडीह, (3) मुमताज आलम पिता मो० समसुदीन, ग्राम-जामताड़ा, पो०+थाना-डुमरी, जिला-गिरीडीह, द्वारा दाखिल आवेदन पत्र के जाँच के संबंध में।
भवदीय के पत्रांक 1711/खनन्, दिनांक 13.07.2020

प्रसंग:-
महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के आलोक में संबंधित राजस्व उपनिरीक्षक एवं अंचल निरीक्षक से जाँच कराई गई। जाँच प्रतिवेदन के आधार पर बिन्दुवार जाँच प्रतिवेदन निम्नलिखित है-

1. आवेदित क्षेत्र रैयती खाते की है।
2. आवेदित क्षेत्र के 50 मी० के अन्दर धार्मिक स्थल, चारागाह, श्मशान घाट, सार्वजनिक स्थल नहीं है।
3. आवेदित क्षेत्र किसी व्यक्ति के साथ बंदोबस्त या हस्तांतरित नहीं है।
4. सर्वे खतियान के अनुसार आवेदित क्षेत्र का किस्म टंड, धान खेत, परती गढ़ा वो मोटा आर दर्ज है।
5. आवेदित क्षेत्र रैयती खाते की है तथा आवेदक को रैयत का सहमति प्राप्त है। सहमति पत्र संख्या-1994, दिनांक-30.06.2020 है, जिसकी सुलभ प्रति संलग्न है।
6. पंजी II के पृष्ठ सं० II/97 में खतियानी रैयत फकीर मांझी के नाम से दर्ज है। पंजी II में अंकित रैयत के वंशज वर्तमान रैयत है।
7. रैयत आदिवासी है। छोटानागपुर काश्ताकारी अधिनियम के अनुच्छेद 46 एवं अन्य के प्रावधानों के तहत खनन् पट्टा की स्वीकृति हेतु अनुशंसा 5 वर्ष से कम अवधि के लिए की जा सकती है।
8. आवेदित क्षेत्र के 500 मी० के दूरी के अंदर मानव बसाहट स्थित नहीं है।
9. आवेदित क्षेत्र के 500 मी० के दूरी के अंदर कोई जलीय निकाय स्थित नहीं है।
10. आवेदित क्षेत्र के 500 मी० की दूरी के अंदर नदी स्थित नहीं है।
11. आवेदित क्षेत्र के 500 मी० के दूरी के अंदर शैक्षणिक संस्थान स्थित नहीं है।
12. आवेदित क्षेत्र के 500 मी० के दूरी के अंदर चिकित्सालय स्थित नहीं है।
13. आवेदित क्षेत्र के 10 किलो० मी० के दूरी के अंदर अन्तराज्य सीमा नहीं है।
14. आवेदित क्षेत्र के 500 मी० के दूरी के अंदर कोई राष्ट्रीय धरोहर/पुरातत्वीय महत्व के स्थल नहीं है।
15. आवेदित भूमि की कोटि सर्वे खतियान तथा पंजी II में जंगल झाड़ी दर्ज नहीं है।
16. आवेदित क्षेत्र सरकार द्वारा अपने उपयोग के लिए स्थानीय प्राधिकारी अथवा किसी जनहित अथवा किसी विशेष उद्देश्य के लिए सुरक्षित भूमि के रूप में अधिसूचित नहीं किया गया है।

अतः जाँच प्रतिवेदन अद्योतर कार्रवाई हेतु प्रेषित।

अनुलग्नक :- यथोक्त।

S. S. S.
Per in file.
27/7/2020

विश्वामो भोजन
अंचल प्राधिकारी
पेटरवार।
26/7/2020

District Revenue Officer
Bokaro



Government of Jharkhand

Department of Forest, Environment and Climate Change

Permission Letter : LETTER20180709

ACK No: SWSFST0505201847526

Issue Date: 09-07-2018

Report of Distance from Forest, Forest Reserve and Sanctuary

SNo	Checkpoint	Range Forest Officer	Divisional Forest Officer
1	Distance of battery point from the Unit	750	685
2	Is the proposed land situated inside or outside the forest boundary?	Yes	Yes
3	Does the proposed land contain rocks?		
4	Are there any trees or plants on the proposed land?	No	No
5	Legal status of the proposed land- Does the proposed land fall under notified forest area?		
6	What will be the effect on environment after mining of stones from the proposed land?		
7	Is there any wildlife present on the proposed land?		
8	Is there any National Park situated within 10 km of the land?	No	No
9	Is there any Sanctuary situated within 10 km of the land?	No	No
10	Is there any declared Bio-Diversity patch within 10 km of the land?	No	No

Handwritten initials and date: 23/7/18

Name : _____

Designation : _____

Signature :

Divisional Forest Officer
Bokaro Forest Division
Bokaro

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

Handwritten signature: Anurag Kumar

District Mining Officer
Bokaro

कार्यालय अंचल अधिकारी, गोमिया (बोकारो)

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पत्रांक.....११.....

प्रेषक,

अंचल अधिकारी
गोमिया.

सेवा में,

जिला खनन् पदाधिकारी
बोकारो।

गोमिया, दिनांक 15/01/2019

विषय :- बोकारो जिला के मौजा - गंगपुर, थाना- महुआटांड, खाता नं०- 35, 07 प्लॉट नं०- 335,337,338 रकवा 3.44ए० क्षेत्र पर पत्थर खनन् पट्टा की स्वीकृति हेतु मेसर्स प्रज्ञा इनटरपाईजेज प्रो० श्री० संजय कुमार, पिता श्री महानन्द प्रसाद, ग्राम+पो०- बडकी पुन्नु, थाना - महुआटांड, जिला - बोकारो द्वारा दाखिल आवेदन पत्र के संबंध में।

प्रसंग:- जिला खनन् कार्यालय बोकारो के पत्रांक 3285/खनन् बोकारो, दिनांक 21.12.2018।

महाशय,

उपर्युक्त विषय के संबंध में राजस्व उप निरीक्षक/अंचल निरीक्षक के माध्यम जाँच प्रतिवेदन प्राप्त है। जाँच प्रतिवेदन में पाया गया कि गोमिया अंचल अंतर्गत मौजा- गंगपुर थाना सं०- 58, थाना महुआटांड के अंतर्गत खाता नं०- 35 प्लॉट नं०- 335, 337, रकवा कमशः 0.41ए० एवं 0.64ए० तथा खाता नं०- 7, प्लॉट नं०- 338, रकवा - 2.39ए० कुल रकवा 3.44ए० क्षेत्र पर खनन् पट्टा की स्वीकृति हेतु मेसर्स प्रज्ञा इनटरपाईजेज प्रो० श्री० संजय कुमार, पिता श्री महानन्द प्रसाद, ग्राम+पो०- बडकी पुन्नु, थाना - महुआटांड, जिला - बोकारो द्वारा खनन् पट्टा का आवेदन दिया गया है। आवेदक द्वारा दाखिल रैयत सहमति पत्र की प्रति को रैयत से सम्पर्क करने पर उनलोगों के द्वारा बताया गया कि हमलोगो को कोई आपति नहीं है। कमवार जाँच प्रतिवेदन निम्न प्रकार से है:-

1. आवेदन क्षेत्र सर्वेनुसार रैयती खाते की भूमि है। मौजा- गंगपुर के खाता नं०- 35 एवं 7 रैयती खाते की है तथा खतियान खेदना माँझी. वल्द गोमदी माँझी तथा खाता 7 वरजुन माँझी वो गोमदी माँझी वो मंगरा माँझी पिता- साहु माँझी के नाम से दर्ज है, जो CNT खाते के अंतर्गत आता है।
2. उक्त क्षेत्र वर्तमान में खतियानी रैयत के दखल में है, किसी प्रकार का हस्तांतरण या बन्दोबस्त नहीं है।
3. खतियान के अनुसार आवेदित क्षेत्र का किस्म टांड है।
4. रैयत की सहमति आवेदक को प्राप्त है। सहमति पत्र की सत्यापित प्रति संलग्न है।
5. रजिस्टर -2 में रैयत के वंशज के नाम से जमाबंदी कायम है। कुर्सीनामा संलग्न है।
6. रैयत आदिवासी है। छोटानागपुर कास्तकारी अधिनियम द्वारा 49 के तहत आवेदक को पाँच वर्षों की अवधि हेतु लीज बन्दोबस्ती की अनुशंशा की जाती है।
7. आवेदित क्षेत्र के 500 मी० की दुरी के अन्दर कोई मानव बसाहट स्थित नहीं है।
8. आवेदित क्षेत्र के 500 मी० की दुरी के अन्दर कोई जलीय निकाय स्थित नहीं है।
9. आवेदित क्षेत्र के 500 मी० की दुरी के अन्दर कोई नदी स्थित नहीं है।
10. आवेदित क्षेत्र के 500 मी० की दुरी के अन्दर कोई शैक्षणिक संस्थान स्थित नहीं है।
11. आवेदित क्षेत्र के 500 मी० की दुरी के अन्दर कोई चिकित्सालय स्थित नहीं है।

District Mining Officer
Bokaro

- 23
12. आवेदित क्षेत्र के 10 कि०मी० की दुरी या परिधि में कोई अन्तराज्यीय सीमा नहीं है।
 13. आवेदित क्षेत्र के 500 मी० की दुरी के अन्दर कोई राष्ट्रीय धरोहर/पुरातत्विय महत्व के स्थल स्थित नहीं है।
 14. आवेदित क्षेत्र सरकार द्वारा अपने उपयोग के लिए स्थानीय प्राधिकारी अथवा किसी जनहीत अथवा विशेष उद्देशय के लिए सुरक्षित भूमि के रूप में अधिसूचित नहीं किया गया है।


अतः जाँच प्रतिवेदन अग्रेतर कार्रवाई हेतु प्रेषित।

अनु- यथोक्त।

विश्वासभाजन

15/01/19
अंचल अधिकारी
भूमि (नोकारो)
15/01/19




District Mining Officer
Bhubaneswar

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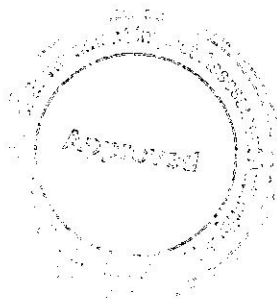


Department of Forest, Environment and Climate Change

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

Name of Applicant	MS PRAGYA ENTERPRISES	Contact no.:	9631488053
Registration Type	Non Government	Location of Proposed Land	
Phone No.	skumarpunnu@gmail.com	Battery Point	GANGPUR
		Thana Name:	MAHUWATAND
		Khesra Name:	335,337,338
District	Bokaro	Divisional Forest Officer	Range Forest Officer
Thana No.	58		
Block No.	35.07		
	Checkpoint		
1	Whether the proposed land falls outside notified forest boundary or not? *	Yes	No
2	Distance of Battery Point from Notified Forest Land (meters) *	300	368
3	Is there any National Park situated within a radius of 10 km from the battery point? *	No	No
4	Is there any Wildlife Sanctuary situated within a radius of 10 km from the battery point? *	No	No
5	Is the proposed project situated in any Eco Sensitive Zone? *	No	No
6	Is there any notified Bio-Diversity area within a radius of 10 km from the battery point? *	No	No

Division DFO Bokaro
 Letter No. 228
 Date of issue 23/01/2019
 Signature _____
 Name _____
 Divisional Forest Officer
 Bokaro Forest Division
 Bokaro



23/01/2019

23-01-2019 17:23

नहीं है।

District Forest Officer
 Bokaro

अंचल अधिकारी, जरीडीह (बोकारो)।

पत्रांक:- 64

म. प्र. 14/8/21

खनन प्रदाधिकारी
बोकारो।

जरीडीह/दिनांक:- 12/08/2021

बोकारो जिला के जरीडीह थानान्तर्गत मौजा- खुंटरी, खाता नं०- 13, प्लॉट संख्या- 196(अंश) के रकबा- 2.50 एकड़ क्षेत्र पर पत्थर खनन पट्टा की स्वीकृति हेतु मेसर्स भैरवी स्टोन, पार्ट 0 (1) श्री कृष्ण कुमार दांगी पिता अरुण चन्द्र दांगी ग्राम- डभातु, पो०- कुम्हारदगा, थाना- गोला, जिला- रामगढ़ (2) श्री प्रकृतेश चंद्रवंशी पिता श्री सुरेश कुमार ग्राम- हेरमदागा, पो०- चॉडी, थाना- गोला, जिला- रामगढ़ द्वारा दाखिल आवेदन पत्र पर जांच प्रतिवेदन का प्रेषण के संबंध में।

भवदीय पत्रांक- 1804/खनन, दिनांक- 07.06.2019

है।

उपर्युक्त विषयक प्रासंगिक पत्र के संबंध में मौजा- खुंटरी, थाना- जरीडीह के खाता नं०- 13, प्लॉट नं०- 196(अंश), रकबा- 2.50 एकड़ क्षेत्र पर पत्थर खनन पट्टा की स्वीकृति हेतु मेसर्स भैरवी स्टोन, पार्ट 0 (1) श्री कृष्ण कुमार दांगी पिता अरुण चन्द्र दांगी ग्राम- डभातु, पो०- कुम्हारदगा, थाना- गोला, जिला- रामगढ़ (2) श्री प्रकृतेश चंद्रवंशी पिता श्री सुरेश कुमार ग्राम- हेरमदागा, पो०- चॉडी, थाना- गोला, जिला- रामगढ़ द्वारा दाखिल आवेदन पत्र का संबंधित राजस्व उप निरीक्षक एवं अंचल निरीक्षक से विस्तृत जांच कराई गई जांच प्रतिवेदन दिन्वृत्त निम्नवत् हैं:-

- 1) आवेदित क्षेत्र रैयती खाता है।
- 2) आवेदित क्षेत्र के 50 मीटर के अन्दर धार्मिक स्थल, चारागाह, श्मशान घाट या सार्वजनिक स्थल स्थित नहीं हैं।
- 3) आवेदित क्षेत्र किसी व्यक्ति के साथ बन्दोबस्त या हस्तांतरित नहीं है।
- 4) आवेदित क्षेत्र खतियान के अनुसार किस्म टॉड-2 है।
- 5) आवेदित क्षेत्र आवेदक का सहमति प्राप्त है। जिसका सुखलाल मुर्मू पिता- सीताराम मुर्मू बगैरह के द्वारा एकरारनामा सं०- 12, दिनांक- 24.02.2021 को प्राप्त है।
- 6) आवेदित क्षेत्र का रजिस्टर में रैयत का नाम दर्ज है। वर्तमान में रजिस्टर में रघु नडियान के वंशज पति हाडिराम मांडी सीताराम मुर्मू, सुखलाल मुर्मू, सुखलाल मुर्मू, मंशु मुर्मू, खाडु मुर्मू, कालीचरण मुर्मू, रामेश्वर मुर्मू वंशज है।
- 7) रैयत आदिवासी है। छोटानागपुर कास्तकारी अधिनियम में निहित प्रावधानों से प्रभावित है।
- 8) आवेदित क्षेत्र के 500 मीटर दूरी के अंदर कोई मानव वसाहत स्थित नहीं है।
- 9) आवेदित क्षेत्र के 500 मीटर की दूरी के अन्दर कोई जलीय निकाय स्थित नहीं है।
- 10) आवेदित क्षेत्र के लगभग 500 मीटर की दूरी पर नदी स्थित नहीं है।
- 11) आवेदित क्षेत्र के 500 मीटर की दूरी के अन्दर कोई शैक्षणिक संस्थान स्थित नहीं है।
- 12) आवेदित क्षेत्र के 500 मीटर की दूरी के अन्दर कोई चिकित्सालय स्थित नहीं है।
- 13) आवेदित क्षेत्र के 10 कि०मी० की परीधि में कोई अन्तर्राज्यीय सीमा नहीं है।
- 14) आवेदित क्षेत्र के 500 मीटर की दूरी के अन्दर कोई राष्ट्रीय धरोहर/पुरातत्त्व महत्व के स्थल स्थित नहीं है।
- 15) आवेदित भूमि की कोटि सर्वे खतियान के जंगल झाड़ी के रूप में दर्ज नहीं है। ऑनलाईन पृष्ठ सं०- 68/1 में जमाबंदी कायम है।
- 16) आवेदित क्षेत्र सरकार द्वारा अपने उपयोग के लिए स्थानिय प्राधिकारी अथवा किसी जनहित अथवा विशेष उद्देश्य के लिए सरक्षित भूमि के रूप में अधिसूचित नहीं किया गया है। प्रतिवेदन अग्रत्तर कार्रवाई हेतु प्रेषित।

विश्वासभाजन

अंचल अधिकारी

जरीडीह।

District Mining Officer
Bokaro



59

Department of Forest, Environment and Climate Change

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

Name Of Applicant: MS BHAIRAVI STONE
 Institution Type: Non Government
 Email ID: prakriteshkenu@gmail.com
 Contact no.: 7717727643
 Location of Proposed Land
 District: Bokaro
 Thana No.: 8
 Khata No.: 13
 Battery Point: KHUTARI
 Thana Name: JARIDIH
 Khesra Name: 196P

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

Division DFO Bokaro

Letter No. 2926

Date of issue 22/10/21

Signature: *[Handwritten Signature]*

Name: *[Handwritten Name]*

Divisional Forest Officer
Bokaro Forest Division

District Planning Officer

(128)

कार्यालय अंचल अधिकारी, जरीडीह (बोकारो)।

पत्रांक:-...130.....

प्रेषक,

अंचल अधिकारी
जरीडीह।

सेवा में,

जिला खनन पदाधिकारी
बोकारो।

सा. नि. 15/02/22

जरीडीह/दिनांक:- ...13/02/2022

विषय :- बोकारो जिला के मौजा-तांतरी टोला नूतनडीह खाता सं० 145, 147 एवं 148 प्लॉट नं०- 22(145), 3, 5, 6(अंश), 8(अंश), 20(अंश) (147) एवं 19(अंश)(148) के रकवा 4.21 एकड़ क्षेत्र पर पत्थर खनन पट्टा की स्वीकृति हेतु मेसर्स जुगनु कन्स्ट्रक्शन कंपनी पार्ट० (1) श्री ज्वाला सिंह पिता श्री ललन कुमार सिंह (2) श्री अजय तिवारी पिता श्री सुदर्शन तिवारी (3) श्री ललन कुमार सिंह पिता स्व० राम श्लोक सिंह (4) श्री सुदर्शन तिवारी पिता स्व० चमन तिवारी (5) श्री राहुल गोयल पिता श्री रमेश कुमार गोयल एवं (6) श्री पवन कुमार सिंह पिता श्री कैलाशनाथ सिंह कम्पनी का पता नया मोड रोड फसरो, पो० फुसरो, थाना बेरमो, जिला बोकारो द्वारा दाखिल आवेदन पत्र के संबंध में।

प्रसंग:- भवदीय पत्रांक- 245/खनन, दिनांक- 10.02.2022

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के संबंध में मौजा-तांतरी टोला नूतनडीह, थाना नं० 06, खाता सं० 145, 147, 148 प्लॉट नं०- 3, 6, 5, 20, 8, 19 एवं 22 कुल रकवा 4.21 एकड़ क्षेत्र पत्थर खनन पट्टा की स्वीकृति हेतु राजस्व उप निरीक्षक एवं अंचल निरीक्षक से जांच कराई गई, जांच प्रतिवेदन बिन्दुवार निम्नवत् हैं:-

- (1) आवेदित क्षेत्र रैयती खाता हैं।
- (2) आवेदित क्षेत्र के 50 मीटर के अन्दर धार्मिक स्थल, चारागाह, श्मशान घाट या सार्वजनिक स्थल स्थित नहीं हैं।
- (3) आवेदित क्षेत्र किसी व्यक्ति के साथ बन्दोबस्त या हस्तांतरित नहीं हैं।
- (4) खतियान के अनुसार किस्म टांड दो तीन एवं परती कदीम दर्ज है।
- (5) आवेदित क्षेत्र केवाला सं० 87 दिनांक 07.01.2022 एवं 90 दिनांक 07.01.2022 के द्वारा आवेदक का खरीदगी प्राप्त है। जिसका छायाप्रति संलग्न है।
- (6) रजिस्टर-2 में रैयत का नाम दर्ज नहीं हैं। वर्तमान रैयत केवालाधारी रैयत हैं।
- (7) रैयत आदिवासी नहीं है।
- (8) आवेदित क्षेत्र के 500 मीटर दूरी के अंदर कोई मानव वसाहट स्थित नहीं हैं।
- (9) आवेदित क्षेत्र के 500 मीटर की दूरी के अन्दर कोई जलीय निकाय स्थित नहीं हैं।
- (10) आवेदित क्षेत्र के लगभग 500 मीटर की दूरी के अंदर कोई नदी स्थित नहीं हैं।
- (11) आवेदित क्षेत्र के 500 मीटर की दूरी के अन्दर कोई शैक्षणिक संस्थान स्थित नहीं हैं।
- (12) आवेदित क्षेत्र के 500 मीटर की दूरी के अन्दर कोई चिकित्सालय स्थित नहीं हैं।
- (13) आवेदित क्षेत्र के 10 कि०मी० की परीधि में कोई अन्तर्राज्यीय सीमा नहीं हैं।
- (14) आवेदित क्षेत्र के 500 मीटर की दूरी के अन्दर कोई राष्ट्रीय धरोहर/पुरातत्वीय महत्व के स्थल स्थित नहीं हैं।
- (15) आवेदित भूमि की कोटि सर्वे खतियान यथा रजिस्टर II में जंगल झाड़ी के रूप में दर्ज नहीं हैं।
- (16) आवेदित क्षेत्र सरकार द्वारा अपने उपयोग के लिए स्थानिय प्राधिकारी अथवा किसी जनहित अथवा विशेष उद्देश्य के लिए सुरक्षित भूमि के रूप में अधिसूचित नहीं किया गया है।

प्रतिवेदन अग्रेत्तर कार्रवाई हेतु प्रेषित।

विश्वासभाजन

17/02/22
अंचल अधिकारी
जरीडीह।

17/02/22
District



Department of Forest, Environment and Climate Change

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

Name Of Applicant: Jugnu Construction Company
 Institution Type: Non Government
 Email ID: jugnuconstructionco@gmail.com
 Contact no.: 9934109077
 Location of Proposed Land

District: Bokaro
 Thana No.: 6
 Khata No.: 145,147,148

Battery Point: Tantri
 Thana Name: Jaridih
 Khesra Name: 22,3,5,6P,8P,20P,19P

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

Division DFO Bokaro

Letter No. 709

Date of issue 12.3.22

Signature

Name

Divisional Forest Officer
 Bokaro Forest Division
 Divisional Forest Officer



[Signature]
 District Mining Officer
 Bokaro

(25)

अंचल अधिकारी का कार्यालय, चन्दनकियारी(बोकारो)

पत्रांक-363/

प्रति

अंचल अधिकारी,
चन्दनकियारी।

प्रति

जिला खनन पदाधिकारी,
बोकारो।

चन्दनकियारी, दिनांक-02/7/21।

विषय:-

मौजा लखीपुर अन्तर्गत खाता सं0-35, प्लॉट सं0-55, 56, 57, 60, 61 तथा खाता संख्या-36, प्लॉट संख्या-41 से 47, 50, 62 से 69 एवं 73, कुल रकवा-4.80 एकड भूमि का पत्थर खनन पट्टा स्वीकृति प्रदान करने हेतु।

प्रसंग:-

जिला खनन पदाधिकारी, बोकारो का पत्रांक 1139 दिनांक 10.04.2021।

नहाशय,

उपर्युक्त विषयक एवं प्रसंगिक पत्र के संबंध में प्रतिवेदित करना है, कि राजस्व उप निरीक्षक एवं अंचल निरीक्षक, चंदनकियारी के द्वारा प्रतिवेदित किया गया है, जो निम्नवत् है:-

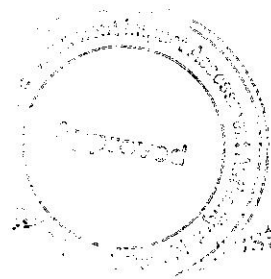
1. आवेदित क्षेत्र सर्वे खतियान के अनुसार रैयती खाते की भूमि है।
2. आवेदित क्षेत्र के 50 मीटर के अंदर धार्मिक स्थल, चारागाह, श्मशान घाट, सार्वजनिक स्थल नहीं है।
3. आवेदित क्षेत्र किसी अन्य व्यक्ति के साथ बंदोबरस्त/हस्तांतरित नहीं है।
4. खतियान के अनुसार आवेदित क्षेत्र का किस्म पुरातन पतित, बाईद, नूतन पतित, मोटा आईल है।
5. आवेदित क्षेत्र रैयती है, तथा वर्तमान रैयत की सहमति प्राप्त है।
6. हल्का कार्यालय में पंजी 2 में खान्दु रजक दी0 के नाम से दर्ज है, पंजी 2 रैयत की सत्यापित वंशवली संलग्न है।
7. रैयत अन्य श्रेणी से आते हैं, सी0एन0टी0 की धा रा 49 1(बी) के तहत उपायुक्त से अनुमति प्राप्त करने के पश्चात अग्रेत्तर कार्रवाई की अनुशंसा की जाती है।
8. आवेदित क्षेत्र के 500 मीटर के अन्दर मानव बसाहट नहीं है।
9. आवेदित क्षेत्र के 500 मीटर के अन्दर जलीय निकाय नहीं है।
10. आवेदित क्षेत्र के 500 मीटर के अन्दर कोई नदी स्थित नहीं है।
11. आवेदित क्षेत्र के 500 मीटर के अन्दर कोई शैक्षणिक संस्थान नहीं है।
12. आवेदित क्षेत्र के 500 मीटर के अन्दर कोई चिकित्सालय नहीं है।
13. आवेदित क्षेत्र के 10 किलोमीटर की परिधि में अन्तराज्यीय सीमा नहीं है।
14. आवेदित क्षेत्र के 500 मीटर के अन्दर कोई राष्ट्रीय धरोहर/पुरातत्वीय महत्य का स्थल नहीं है।
15. आवेदित क्षेत्र की भूमि का कोटि सर्वे खतियान के अनुसार जंगल झाडी के रूप में दर्ज नहीं है।
16. आवेदित क्षेत्र सरकार द्वारा अपने उपयोग के लिए स्थानीय प्राधिकार किसी जनहित अथवा किसी विशेष उद्देश्य के सुरक्षित भूमि के रूप में अधिसूचित नहीं किया गया है।

अतः प्रतिवेदन सादर सूचनार्थ एवं आवश्यक कार्रवाई हेतु समर्पित।

विश्वासभाजन

27.6.21
राजस्व उप निरीक्षक
हल्का सं0-VII

28/6/21
अंचल निरीक्षक
चंदनकियारी।



28/6/21
अंचल अधिकारी
चन्दनकियारी।

District Collector
Bokaro



Department of Forest, Environment and Climate Change

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

Name of
Project
Location

Prakash Pandey

ID

omprakashpandey9973@gmail.com Contact no.: 6200974916

Location of Proposed Land

District Bokaro

Battery Point Lakshipur

Block No.: 274

Thana Chandankiyari

Plot No.: 35,36

Name: 55,56,57,60,61,41,42,43,44,45,46,47,50,62,63,64,65,66,67,68,69,73
Khesra Name:

Checkpoint

Range Forest Officer

Divisional Forest Officer

1
2
3
4
5
6

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

Division DFO Bokaro

Letter No. 3177

Date of issue 16/11/2021

Signature

Name

Divisional Forest Officer
Bokaro Forest Division
Divisional Forest Officer



District Mining Officer
Bokaro



Government of Jharkhand

Department of Forest, Environment and Climate Change

Permission Letter : LETTER20211116

Acknowledgment No: SWSFST10072021b988d Issue Date: 16-11-2021

Name Of Applicant : om Prakash Pandey

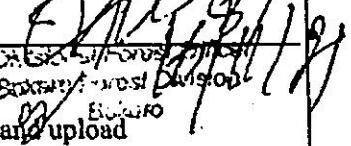
Email ID : omprakashpandey9973@gmail.com Contact no.: 6200974916

Report of Distance from Forest, Forest Reserve and Sanctuary

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

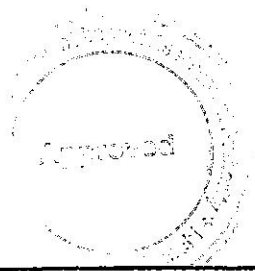
Name : _____


Designation : _____

Signature : 

Divisional Forest Officer
Bokaro Forest Division
Bokaro

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




District Mining Officer
Bokaro

**KEY REPORT OF MINOR MINERAL (STONE) OTHER THAN SAND
& RIVER-BED MINING FOR BOKARO DISTRICT OF JHARKHAND**



जिला खनन कार्यालय, बोकारो।

E-mail ID - dmo-bokaro@jharkhandmail.gov.in

पत्रांक 351/खनन,

बोकारो

दिनांक 22/02/2023

प्रेषक,

जिला खनन पदाधिकारी,
बोकारो।

सेवा में,

जिला सूचना विज्ञान पदाधिकारी,
बोकारो।

विषय :- बोकारो जिला हेतु तैयार Draft DSR (पत्थर खनिज) को बोकारो जिले के NIC Portal पर प्रकाशित करने के संबंध में।

महाशय,

उपर्युक्त विषय के संबंध में सूचित करना है कि बोकारो जिला हेतु Draft DSR (पत्थर खनिज) Sub-divisional Committee द्वारा तैयार कर दिया गया है। Draft DSR (पत्थर खनिज) को Public Domain में जिला स्तर पर प्रसारित किया जाना है।

अतः अनुरोध है कि बोकारो जिला हेतु तैयार Draft DSR (पत्थर खनिज) को जिला के NIC Portal पर Public Viewing एवं Comments हेतु Upload करने की कृपा की जाय।

R.ami
20/2/2023
जिला खनन पदाधिकारी,
बोकारो।

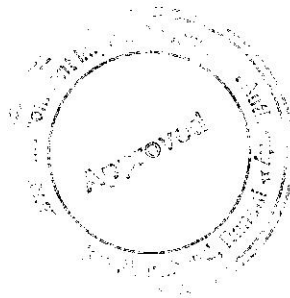
ज्ञापांक 351/खनन

बोकारो

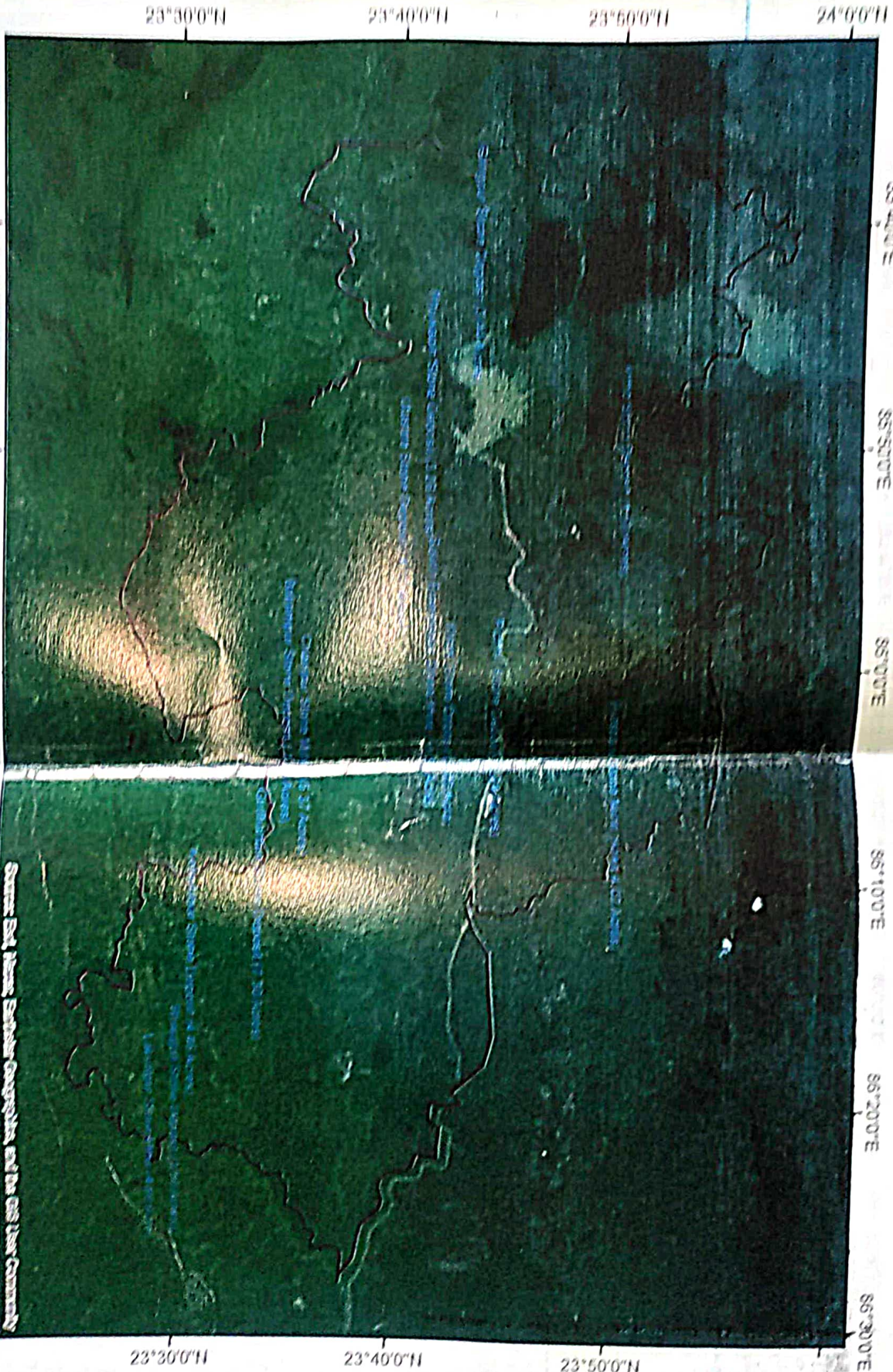
दिनांक 22/02/2023

प्रतिलिपि :- उपायुक्त, बोकारो को सादर सूचनार्थ प्रेषित।

R.ami
20/2/2023
जिला खनन पदाधिकारी,
बोकारो।



Mining Leases with Issued Letter of Intent (LOI) marked on Map of Bokaro



Legend

- Mining Leases with issued LOI
- Bokaro District Boundary

0 4.75 9.5 19 28.5 38

1 cm = 4 km

Kilometers

Source: ES&I, Mines, Bokaro Coalfields and the GIS User Community



District Mining Officer
Bokaro

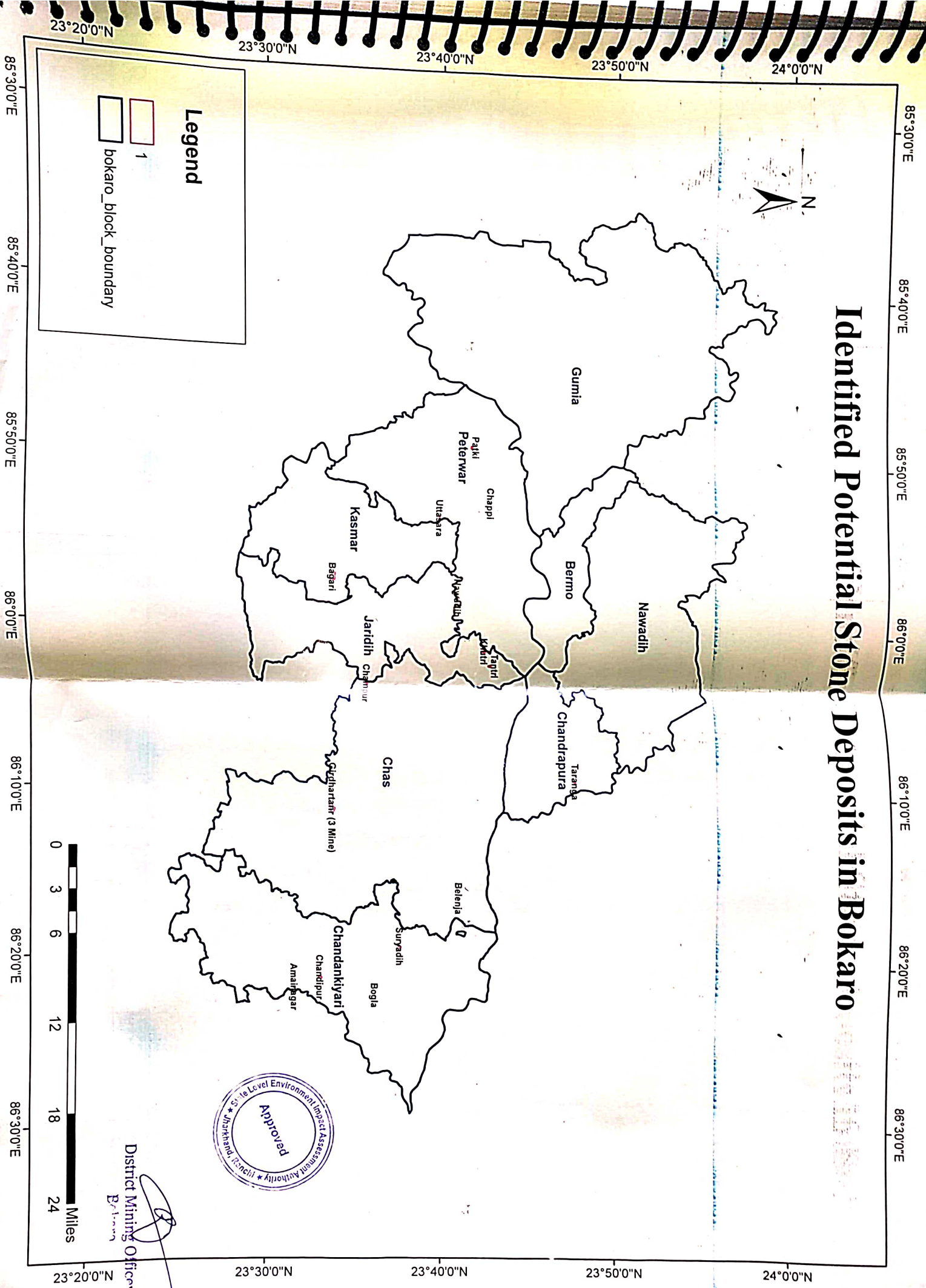


23°30'0"N 23°40'0"N 23°50'0"N 24°0'0"N

23°30'0"N 23°40'0"N 23°50'0"N

85°40'0"E 85°50'0"E 85°0'0"E 85°10'0"E 85°20'0"E 85°30'0"E

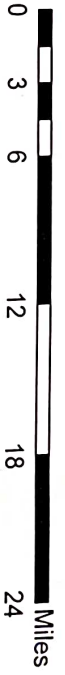
Identified Potential Stone Deposits in Bokaro



Legend

1

bokaro_block_boundary

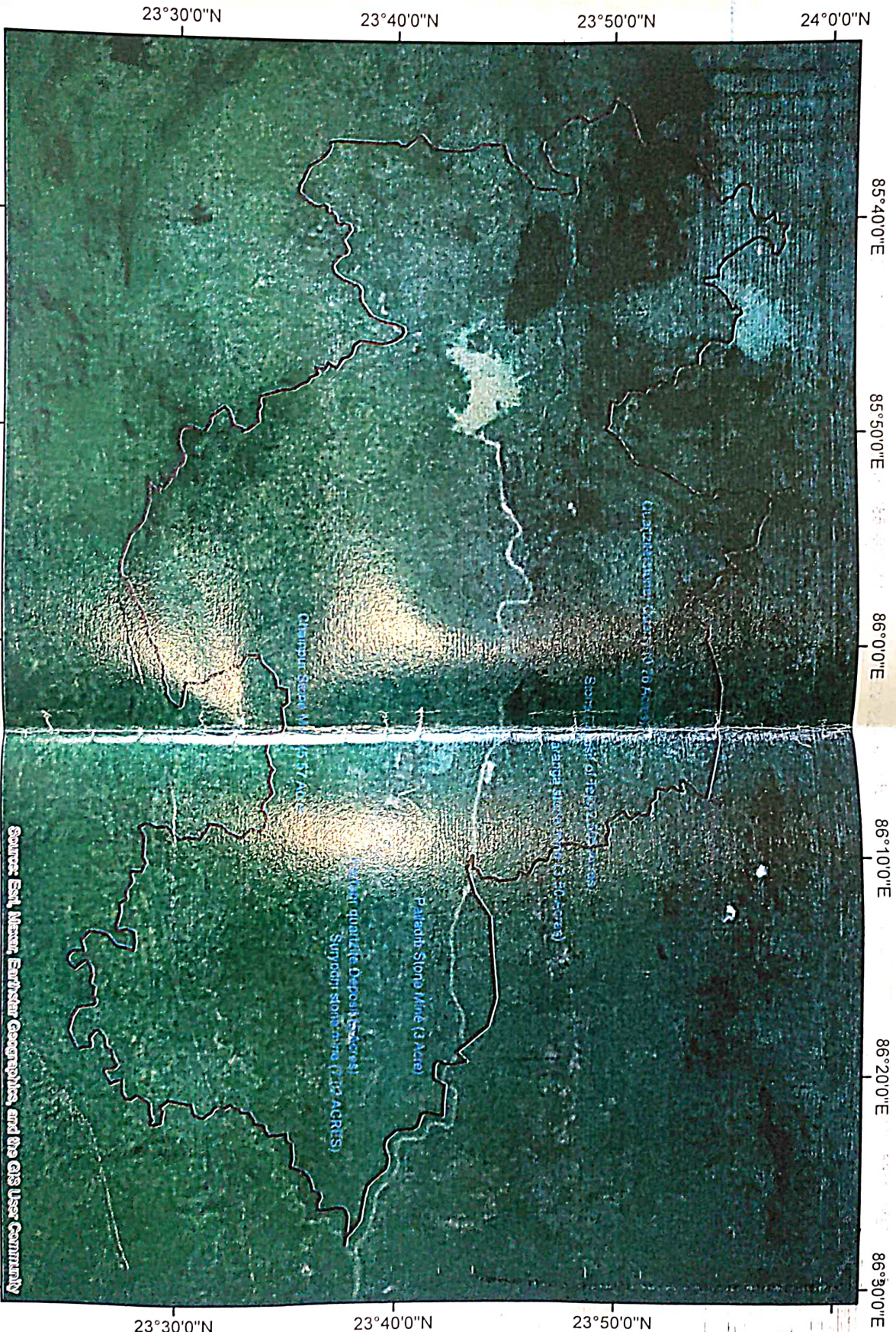


District Mining Officer
Bokaro

23°20'0"N 23°30'0"N 23°40'0"N 23°50'0"N 24°0'0"N

85°30'0"E 85°40'0"E 85°50'0"E 86°0'0"E 86°10'0"E 86°20'0"E 86°30'0"E

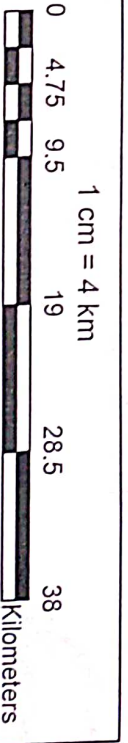
Existing/Working Mining Leases marked on map of Bokaro District



Legend

- Existing/Working Mining Leases
- Bokaro District Boundary

Source: Esri, Microsoft, Earthstar Geographics, and the GIS User Community



(Handwritten signature)