



सत्यमेव जयते

File No.: 542681/387-MINB2/06-2025

Government of India

Ministry of Environment, Forest and Climate Change

(Issued by the State Environment Impact Assessment Authority (SEIAA),
ODISHA)



Dated 30/03/2026



To,

The Deputy Director of Mines, Rourkela
O/o-Deputy Director of Mines, Rourkela
At-Udit Nagar, Rourkela, ROURKELA, SUNDARGARH, ODISHA, 769012
ddm.rourkela@orissaminerals.gov.in

Subject: Approval of District Survey Report (DSR) of Road metal/Building Stone/Black Stone in respect of Sundargarh District located in District-Sundargarh, State-Odisha for the period 2026 to 2031 under the provisions of EIA Notification 2006- regarding

Sir/Madam,

This is in reference to your application submitted to SEIAA, Odisha by the Deputy Director of Mines, Rourkela vide proposal number SIA/OR/MIN/542681/2025 dated 25/06/2025 for approval of District Survey Report (DSR) of Road metal/Building Stone/Black Stone in Sundargarh District for the period 2026-2031 located in District-Sundargarh, State-Odisha in terms of the provision of the Environment Impact Assessment (EIA) Notification, 2006 under the Environment (Protection) Act, 1986 and subsequent amendment thereto, i.e. Enforcement and Monitoring Guidelines for Sand Mining (EMGSM)-2020 and in pursuance of MoEF & CC, Govt. of India Notification dated 15.01.2016 & 25.07.2018 and as per order of Hon'ble Supreme Court dated 10.11.2021 in Civil Appeal No. 36613662 of 2020 (State of Bihar Vrs. Pawan Kumar and Others)-reg.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC25C0108OR5673266N
(ii) File No.	542681/387-MINB2/06-2025
(iii) Clearance Type	Mining EC Under 5 Ha
(iv) Category	B2 & B1
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals

(vii) Name of Project	District Survey Report(DSR) of Road metal/Building Stone/Black Stone (minor mineral) of Sundargarh District.
(viii) Location of Project (District, State)	SUNDARGARH, ODISHA
(ix) Issuing Authority	SEIAA, Odisha
(x) Applicability of General Conditions	No

3. In view of the particulars given in the Para 1 above, the project proposal (PP) interalia including Form-2, forwarding letter, proceeding copy, copy of 30 days public notice period, copy of paper clipping and advertisement for Public notice both in Odia and in English and final revised District Survey Report (DSR) of Road metal/Building Stone/Black Stone in Sundargarh District copy were submitted to the SEIAA, Odisha for an appraisal by the State Level Expert Appraisal Committee (SEAC) under the provision of EIA notification 2006 and its subsequent amendments.
4. The above-mentioned proposal has been considered by the SEAC in the meeting held on 24.11.2025. The minutes of the meeting and all the documents are available in the PARIVESH portal which can be accessed from the PARIVESH portal by scanning the QR Code above.
5. Details of the DSR of Road metal/Building Stone/Black Stone in Sundargarh District and the brief on the salient features as submitted by the project proponent in Form-2 and as presented during the SEAC meeting are annexed as Annexure-2.
6. The SEAC, in its meeting held on 24.11.2025, based on information & clarifications provided by the project proponent and after detailed deliberations on all technical aspects and compliance thereto furnished by the Project Proponent. After detailed deliberation, the SEAC recommended the DSR of Road metal/Building Stone/Black Stone in Sundargarh District.
7. The SEIAA, Odisha has examined the DSR proposal in **275th Meeting of SEIAA held on 25.02.2026** in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 under the Environment (Protection) Act, 1986 and subsequent amendment thereto, Sustainable Sand Mining Management Guideline (SSMMG)-2016, Enforcement and Monitoring Guidelines for Sand Mining (EMGSM)-2020 and in pursuance of MoEF & CC, GoI Notification dated 15.01.2016 & 25.07.2018 and as per order of Hon'ble Supreme Court dated 10.11.2021 in Civil Appeal No. 36613662 of 2020 (State of Bihar Vrs. Pawan Kumar and Others) and based on the recommendations of the SEAC, clarification submitted by Project Proponent (PP) to the query raised by SEAC & SEIAA. Accordingly, the PP/competent Authority have submitted their reply and modified revised DSR. After detailed deliberation in the matter, the authority hereby **approved the DSR of Road metal/Building Stone/Black Stone in respect of Sundargarh District for a period of 5 years from date of approval.** The details of revised DSR copy is attached in annexure-2 and the copy of the same may be downloaded from the attached file of respective application number in Parivesh Portal 2.0.
8. The SEIAA, Odisha reserves the right to stipulate additional conditions, if found necessary.
9. The Validity of DSR is upto 5 years i.e. from 2026 to 2031 from the date of issue of this approval letter.
10. This issue with an approval of the Competent Authority.

Copy To

1. Additional Chief Secretary, Forest, Environment & Climate Change Dept., Government of Odisha for information.
2. Member Secretary, State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-8, Bhubaneswar for information.
3. The Director of Mines, Steel & Mines Dept, Govt. of Odisha Bhubaneswar for information.
4. Additional Principal Conservator of Forests, Integrated Regional Office (IRO), Ministry of Environment & Forests, A/3, Chandrasekharapur, Bhubaneswar for information.
5. Additional Chief Secretary, Revenue and DM Department, Govt. of Odisha Bhubaneswar for information.
6. Chairman, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, New Delhi-110032 for information.
7. Chairman/Member/Member Secretary, SEIAA for information.
8. Member Secretary, SEAC, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar for information.
9. Collector & DM, Sundargarh, Sub-Collector, Sundargarh, DFO, Sundargarh, RO, SPCB, Rourkela, All Tahasildar of Sundargarh/Mining Officer, Sundargarh District for Information and necessary action.
10. The Director, Minor Mineral, Steel & Mines Dept, Govt. of Odisha Bhubaneswar for information.
11. Guard file for record/Website/Parivesh Portal





By e-mail.

**OFFICE OF THE DEPUTY DIRECTOR OF MINES, ROURKELA CIRCLE, ROURKELA.
AT/PO:-UDITNAGAR, ROURKELA DIST:- SUNDARGARH-769012**

Mail: ddm.rourkela@orissaminerals.gov.in

No. 886 /Mines, Dt. 20 .02.2026.

To

The Chairman,
State Environment Impact Assessment Authority,
Odisha, Bhubaneswar.

Sub: Compliance with the ADS for the approval of District Survey Report (DSR) of Sundargarh District objected by SEIAA.

Ref: Query for E.C./MOM/SEIAA/748948/1/2026.

Sir,

With reference to the subject cited above, as per objection raised by SEIAA vide letter under reference, kindly seen that signature of all the Sub-Committee in DSR Certificate along with necessary counter signature of the Chairman-cum-Collector, Sundargarh complied is enclosed herewith for kind approval of District Survey Report (DSR) of Sundargarh District. Further, as required soft copy of KML file forwarded to SEIAA, Odessa by e-mail which may kindly be seen. Further the said compliance are also being uploaded in the PARIVESH PORTAL.

This is for favour of your kind information and necessary action.

Yours faithfully,

Deputy Director of Mines,
Rourkela.

Memo No. 887 /Mines, Dt. 20/02/2026

Copy forwarded to the Collector, Sundargarh for favour of kind information and necessary action.

Deputy Director of Mines,
Rourkela.

Memo No. 888 /Mines, Dt. 20/02/2026

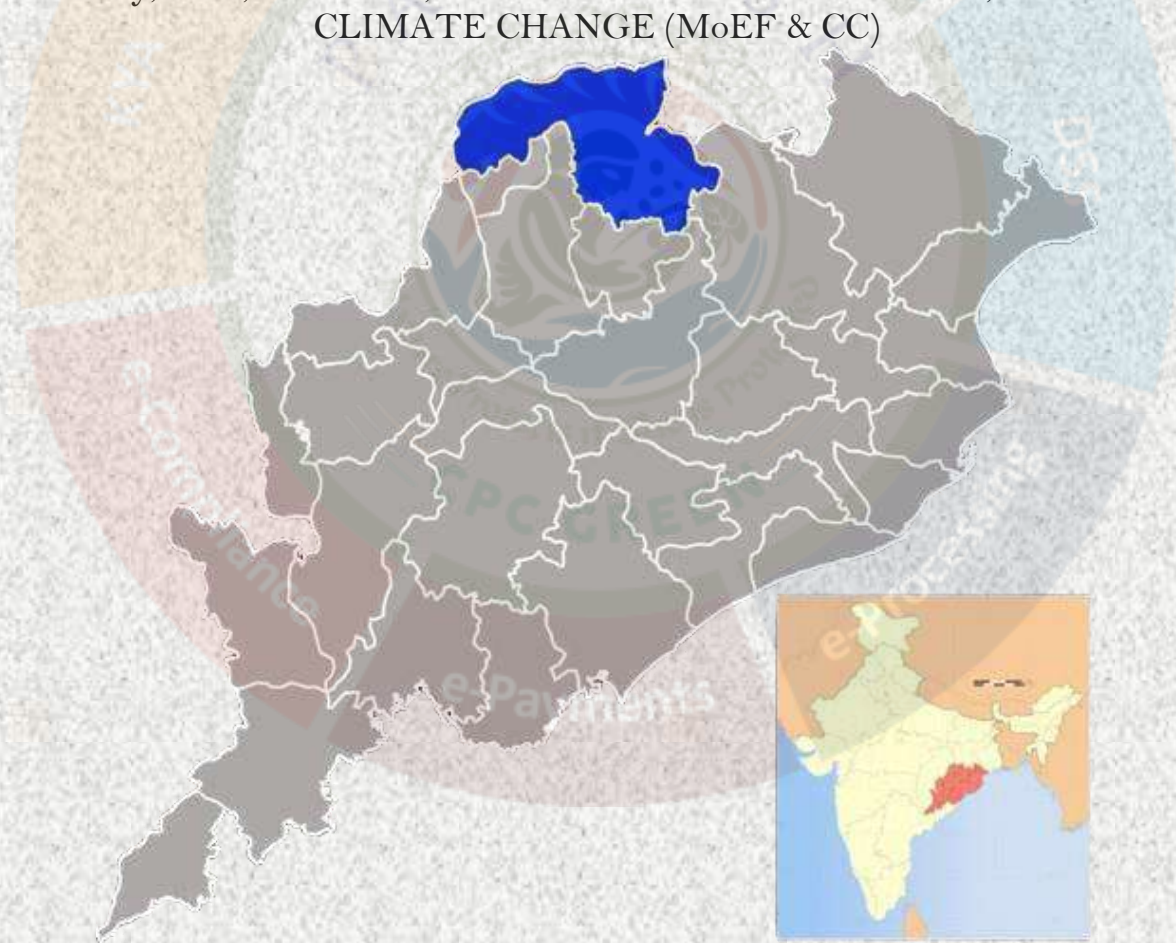
Copy forwarded to the Director, Minor Minerals, Odisha, Bhubaneswar for favour of kind information and necessary action.

Deputy Director of Mines,
Rourkela.



DISTRICT SURVEY REPORT (DSR) OF SUNDARGARH DISTRICT, ODISHA ON STONE (ROAD METAL) MINING

As per Notification No. S.O. 141(E), 15th January, 2016 & S.O. 3611(E),
25th July, 2018, New Delhi, MINISTRY OF ENVIRONMENT, FOREST &
CLIMATE CHANGE (MoEF & CC)



COLLECTORATE, SUNDARGARH
MAY-2025

Neesi
Deputy Director Mines
Rourkela

Mukherjee
COLLECTOR
SUNDARGARH

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PREFACE

The Erstwhile Ministry of Environment and Forests(MoEF), (the Government of India, made Environmental Clearance (EC) for mining of minerals mandatory through its Notification of 27th January, 1994 under the provisions of Environment Protection Act, 1986. Keeping in view the experience gained in environmental clearance process over a period of one decade, the Ministry came out with Environmental Impact Notification, SO 1533 (E), dated 14th September 2006. The Ministry of Environment, Forests & Climate Change (MoEF&CC), Government of India had amended the said vide notification S.O. 141(E) Dated 15th January, 2016. Now again Ministry of Environment, Forests & Climate Change (MoEF & CC), Government of India amended the notification S.O. 141(E) Dated 15th January, 2016 vide S.O. 3611(E) Dated 25th July, 2018. It has been made mandatory to obtain environmental clearance for different kinds of development projects as listed in Appendix-X of the Notification. In compliance to the notification issued by the Ministry of Environment and Forest and Climate Change Notification no. S.O.3611 (E) NEW DELHI dated 25-07-2018 the preparation of district survey report of stone mining has been prepared in accordance with Clause II of Appendix X of the notification. Every effort has been made to cover laterite stone mining locations, future potential areas and overview of laterite mining activities in the district with all its relevant features pertaining to geology and mineral wealth. This report will act as a compendium of available mineral resources, geological set up, environmental and ecological set up of the district and based on data of various departments like Revenue, Water Resources, Forest, Geology and Mining in the district as well as statistical data uploaded by various state Government departments for preparation for district survey report. The main purpose of preparation of District Survey Report is to identify the mineral resources and developing the mining activities along with other relevant data of the District.

OBJECTIVES

The main objective of the preparation of District Survey Report is to ensure the following –

- Identification of mineral wealth in the district.
- Identification of areas of Minor Mineral having the potential mineral where mining can be allowed.
- Identification of areas of proximity to infrastructural structures and installations where mining should be prohibited.



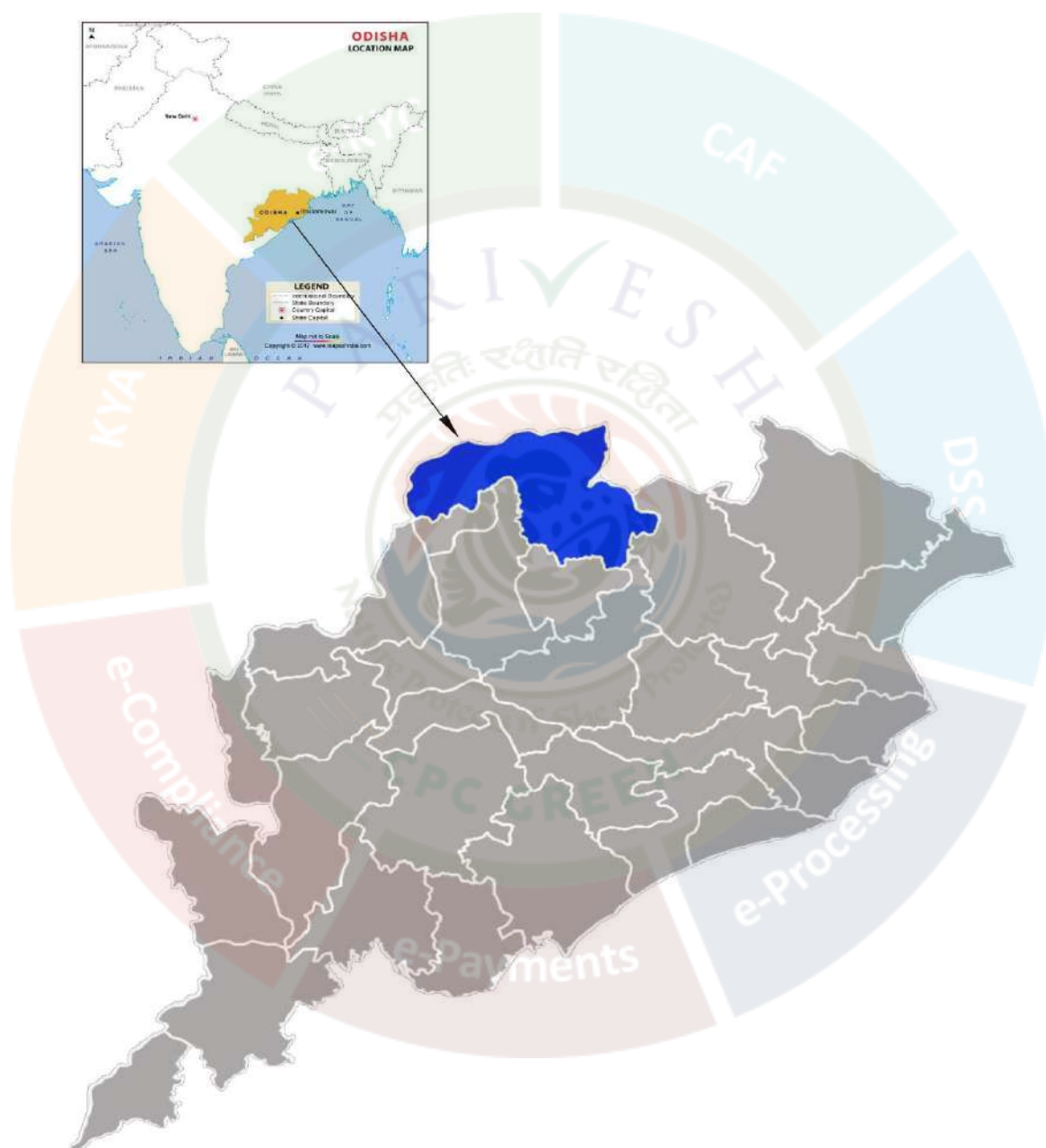
01. INTRODUCTION.

Sundargarh district forms the North western part of Odisha state. Sundargarh town is the district headquarter. Geographically, the district is not a compact unit and consists of widely dissimilar tracts of expansive and fairly open, dotted with tree, clad isolated peaks, vast inaccessible forests, extensive river valleys and mountainous terrain. Broadly speaking, it is an undulating tableland of different elevations broken up by rugged hill ranges and cut up by torrential hill streams and the rivers IB and Brahmani. The general slope of the District is from north to south. Because of this undulating, hilly and sloping nature of landscape, the area is subjected to rapid runoff leading not only to soil erosion but also to scarcity of water for both agriculture and drinking purposes. Brahmani, Sankh, Koel and IB are the major rivers flowing through this District. Covering a geographical area of 9712 sq.kms, Sundargarh District is the second largest District of the state, accounting for 6.23 percent of its total area. Out of this total area, forests cover 4232.57 sq km, this being the second largest in the state, accounting for 8.53 percent of the state total. Sundargarh is the North western district of Orissa.

Sundargarh is recognized as an industrial district in the map of Odisha. Steel Plant, Fertilizer Plant, Cement factory, Ferro Vanadium Plant, Machine building factory, Glass and china clay factory and Spinning mills are some of the major industries of this District. Sundargarh occupies a prominent position in the mineral map of Odisha and is rich in iron ore, limestone, manganese, dolomite, and fire clay. Major industries are the Odisha Cements Ltd, Hart Fertilizers Ltd, and Odisha Industries Ltd. The industrial town of Rourkela in this District has the first government sector plant built with foreign collaboration and was the first in India to use LD oxygen technology.

Still, more than 50 percent of the people earn their livelihoods from agriculture and allied sectors. Sundargarh District is coming under the North Western Plateau Zone as per the agro climatic zone of Odisha. Soil group of the Sundargarh district is mixture of red and yellow soil. Out of the 3,13,000

hectares of cultivated land, 52 percent is upland, 30 percent is medium land and 18 percent is low land. As paddy is the main crop, 75 percent of the land is covered with paddy during Kharif. Due to limited irrigation facilities, 24 percent land is irrigated during Kharif and 8 percent of land is irrigated during Rabi.



02. OVERVIEW OF MINING ACTIVITY IN THE DISTRICT.

Sundargarh district of Odisha is rich in mineral resources and is a significant mining hub in the state. The district is known for the extraction of both major and minor minerals. Major minerals include iron ore, limestone, dolomite, manganese ore, and quartzite, which are primarily used in the steel, cement, and refractory industries. Mining activities are concentrated in areas like Koira, Tensa, Barsuan, and Rajgangpur, supporting large-scale industries such as the Rourkela Steel Plant and ACC Cement Factory. In addition to these, the district also has deposits of minor minerals like Road metal, morrum, laterite, sandstone, brick earth and sand, which are used in construction and small-scale industries. The mining sector contributes significantly to the local economy by generating employment and revenue, but it also raises concerns related to environmental degradation, deforestation, and displacement of tribal communities.

As there are a major number of mines present within the district so there are two Deputy Director Mines Circles within the district i.e. DDM Koira & DDM Rourkela

The over view mining data provided by *DDM Rourkela* is as follows;

SI No.	List of Mines	Different of Minerals with area (Ha)		Name of the lessee	Period of validity	Remarks
1	Basundhara	Coal	214.300	M/s M.C.Ltd	--	To be auctioned
2	Kulda	Coal	854.320	M/s M.C.Ltd	--	To be auctioned
3	Garjanbahal	Coal	653.828	M/s M.C.Ltd	--	To be auctioned
4	Dulinga	Coal	762.420	NTPC	--	To be auctioned
5	Manoharpur	Coal	652.8853	OCPL	09.05.1997to 08.05.2047	Working
6	Khatkurbahal & Falsakani	Limestone & Dolomite	156.430	M/s Shiva Cement Ltd.	15.11.2022 to 14.11.2072	Working
7	Dharuara-Kukuda	Limestone & Dolomite	39.42	--	--	To be auctioned
8	Biramitrapur	Limestone & Dolomite	793.043	BSL Co. Ltd	1.04.1990 to 31.03.2040	Working
9	Lanjiberna	Limestone & Dolomite	873.057	M/s DCBL Ltd. (OCL)	30.02.1990 to 29.02.2040	Working
10	Khatkurbahal & Falsakani	Limestone & Dolomite	72.439	M/s Shiva Cement Ltd.	15.01.1992 14.01.2042	Working

11	Timna	Decorative Stone	11.93	M/s ARC Resources	09.01.1998 to 08.01.2048	Working
12	Banarai	Dolomite	9.324	G.C.Rout	03.09.2002 to 02.09.2052	Working

The over view mining data provided by DDM Koira is as follows;

Information on Mining Leases with Lease Validity under Koira Mining Circle						
SI No	List of Mines	Mineral with Area (in ha.)		Name of the Lessee	Date of Lease Execution/ supplementary lease deed Execution	Lease Validity
		Minerals	Area (ha)			
1	2	3	4	5	6	7
ML Case						
1	Bandhal Mn Mines	Mn	28.0207	Kanakdhara Mining & Minerals (P) Ltd.	13.03.2022	14.03.2002-14.03.2052
2	Nuagaon Iron & Mn Mines	Iron & Mn	29.257	Prabodh Mohanty	10.05.2019	10.05.1999-10.05.2049
3	Jamirdihi	Pyroxenite, Quartz, Quartzite, Dunite etc.	50.646	Indian Marble Company	03.07.2023	03.07.2003-03.07.2053
4	Bhanjapali Iron Mines	Iron Ore	18.00	J N Patnaik	01.04.1997	31.03.2027
5	Patabeda Iron Mines	Iron Ore	14.00	M/s M G Mohanty	08.03.2006	07.03.2026
6	Patabeda Iron Mines	Iron Ore	28.397	MGM Minerals Ltd.	08.03.2006	07.03.2026
7	Bhanjapali Mn Mines	Mn Ore	65.710	R S Sindhu	01.01.2017	10.01.2067
8	Oraghat	Mn Ore	11.485	S A Halim	24.09.2007	23.09.2027
9	Adaghat	Iron Ore	15.074	National Enterprises	11.01.2017	10.01.2067
10	Kadalia, Sanrusibenua, Basada in Sundargarh District; & Pirapokhari & Handibhanga in Keonjhar District	Iron Ore	874.290	Nilachal Ispat Nigam Limited	11.01.2017	10.01.2067
11	Gonua & Mandajoda	Iron & Mn	12.080	B C Dagara	02.05.2025	25.04.2005
12	Dalita	Iron & Mn	22.165	B C Dagara	28.06.2003	07.09.2023
1st RML Case						
13	Koira	Iron	90.143	Essel Mining & Industries Ltd.	27.08.1971	26.08.2021
14	Sanindpur	Iron/Buxt.	147.1	Rungta Sons (P) Ltd.	06.09.1985	05.09.2035
15	Raikela	Iron	207.113	Jindal Steel & Power Ltd.	25.05.1985	24.05.2035

16	Tantra	Iron	72.56	Korp Resources (P) Ltd.	22.11.1985	21.11.2035
17	Patabeda	Iron/Mn	19.425	M/s M.G. Mohanty	03.04.1986	02.04.2036
18	Raikela & Tantra	Iron	49.372	PTA Ltd.	01.12.1986	02.12.2036
19	Oraghat	Iron	82.961	Rungta Sons (P) Ltd.	10.12.1982	09.12.2032
20	Raikela	Iron	18.315	S.N. Mohanty	03.04.1982	02.04.2032
21	Gonua	Iron/Mn	13.796	S.N. Mohanty	05.06.2020	
22	KJST (Jaldihi)	Iron/Mn/Buxt.	188.268	S.N. Mohanty	14.07.2016	19.01.2037
23	Toda RF	Iron	77.94	SAIL	19.04.1960	28.04.2030
24	Kusumdihi	Mn/Bux.	52.176	B.I.Co. Ltd.	14.01.1961	31.03.2020
25	Kamanda	Bauxite	43.067	Rungta Sons (P) Ltd.	10.12.1912	25.03.2035
26	Sarkunda	Iron/Mn	393.556	Feegrade & Co. (P) Ltd.	01.03.1983	31.03.2020
27	Raikela	Iron	67.586	Geetarani Mohanty	02.07.1991	01.07.2041
28	Rantha	Iron	408.8731	OMC Ltd.	30.12.1968	30.12.2018
29	Kashira	Iron	418.355	OMC Ltd.	13.10.1976	12.10.2026
30	Kanther Koira	Iron/Mn.	13.270	B.S.Mishra	20.09.1982	19.09.2002
31	Raikela	Iron Ore	69.606	C.P. Sharma	14.04.1986	16.04.2006
32	Kulijhar	Quartzite	24.167	JK & KP Jhunjunwala	18.07.1991	07.07.2001
33	Gonua	Iron/Mn	12.56	K.C. Pradhan	15.03.1991	14.03.2011
34	Nuagaon	Mn	39.89	K.C. Pradhan	19.10.1984	18.10.2004
35	Jaldihi & Tantgram	Iron/Mn/Bux.	29.575	K.J.S. Ahluwalia	24.07.1991	23.07.2011
36	Gonua	Iron/Mn	23.30	K.J.S. Ahluwalia	16.07.1988	15.07.2008
37	Kusumdihi	Mn	47.486	Kavita Agarwal	28.03.1984	27.03.2004
38	Raikela	Iron	45.932	National Enterprises	21.12.1983	20.12.2033
39	Bhanjapali & Koira	Iron	141.235	OMC Ltd.	06.04.1987	06.05.2012
40	Kusumdihi	Bauxite	102.79	ORIND	01.08.1977	31.07.1997
41	Tantra, Bandhal & Rengua	Buxt./Iron/Mn	106.128	P.D. Agarawal	08.07.1991	07.07.2011
42	Raikela	Iron	14.933	S.D. Sharma	20.01.1982	20.01.2012
43	Nuagaon	Iron/Mn	12.942	S.D. Sharma	06.05.2005	
44	Toda RF	Iron	3.34	SAIL	18.01.1984	17.01.2004
45	Tantra	Bauxite	117.44	SAIL	18.08.1969	17.08.1989
46	Patmunda	Mn	81.197	Sun Alloys & Minerals (P) Ltd.	12.02.1996	11.02.2006-12.02.2046
47	Teherai-Sonua	Iron/Mn	29.076	Tarini Meinerals	26.12.1980	25.12.2000
48	Nuagaon	Mn	7.85	Tarini Menerals	26.02.1980	25.02.2000
49	Kamanda	Mn	60.7	U.C. Mishra	08.08.1981	07.08.2008
50	Gonua	Iron/Mn	129.179	Zenith Mining (P) Ltd.	23.10.1991	22.10.2001
51	Bhaludunguri	Soap Stone	155.43	Shiv Dutt Sharma	03.12.1984	02.12.2004
52	Sanindpur	Iron/ Mn	70.917	National Enterprises	10.09.1980	02.10.2030
53	Oraghat	Iron /Mn	25.847	S A Halim	06.04.1998	08.04.2018

2nd RML Case						
54	Kurmitar Pahar	Iron	651	OMC Ltd.	29.04.1965	28.04.2035
55	Barsuan	Iron	2486.382	SAIL	30.03.2021	05.01.2030
56	Kalta	Iron		SAIL		
57	Taldih	Iron		SAIL		
58	Bhaludunguri	Soap Stone	110.479	J.C. Budharaj	23.03.1973	21.03.1993
59	Gonua	Iron/Mn	83.151	M.G. Mohanty	30.11.1971	29.11.1991
60	Gonua	Iron/Mn	86.886	P.K. Ahluwalia	20.03.1918	31.03.2020
61	Toda RF	Iron	25.981	SAIL	12.04.1975	16.06.1995
3rd & 4th RML Case						
62	Narayanposhi	Iron/Mn	399.838	A.M.T.C. Ltd.	16.07.2016	31.03.2020
63	Mahulsukha	Mn	349.839	A.M.T.C. Ltd.	17.12.2015	31.03.2020
64	Nadidihi	Iron/Mn	73.855	B.I.Co. Ltd.	02.05.2016	31.05.2020
65	Teherai	Iron/Mn	137.46	B.I.Co. Ltd.	28.06.1984	31.03.2020
66	Nadidihi	Iron/Mn	121.405	Feegrade & Co. (P) Ltd.	29.06.1984	31.03.2020
67	Kolmong	Mn	218.53	Rungta Mines Ltd.	08.05.1945	31.03.2020
68	Kanther-Koira	Mn	73.653	Rungta Mines Ltd.	01.01.1939	31.03.2020
69	Khajurdihi (C-Block) Mandajoda (A-Block) & Dalita (B-Block)	Iron/Mn	Block-A: 55.605 Block-B: 32.375 Block-C: 31.566	Matadin Sharda	30.08.1967	30.08.1987
70	Kusumdihi	Mn	31.549	O.M. & M Ltd.	29.05.2015	31.03.2020
71	Sanpatholi	Mn	23.29	O.M. & M Ltd.	01.01.1981	31.12.1999
72	Orahuri	Mn	51.476	O.M. & M Ltd.	04.05.2015	31.03.2020
73	Patmunda	Mn	807.316	O.M. & M Ltd.	04.05.2015	31.03.2020
74	Tentulidih & Dengula	Mn	35.61	O.M. & M Ltd.	01.01.1980	31.12.1999
75	Bhanjikusum	Mn	8.498	O.M. & M Ltd.	23.10.1981	31.03.2020
76	Malda	Mn	822.00	Tata Steel Ltd.	(RML applied up to 13.08.1932)	12.08.2010
77	Sarkunda	Mn	160.90	EMI Ltd.	10.07.1984	31.12.2002

03. GENERAL PROFILE OF THE DISTRICT.

Sundargarh District was constituted on the 1st January, 1948, out of the two ex–States of Gangpur and Bonai, which merged with Odisha on that day. True to its name, this beautiful District of Sundargarh with about 43 percent of its total area under forest cover and numerous colourful tribes dotting its landscape and with abundant mining potential is bounded by Ranchi District of Jharkhand on the North, Raigarh District of Chhatisgarh on the west and North West, Jharsuguda, Sambalpur and Angul Districts of Odisha on the South and South East and Singhbhum District of Jharkhand and Keonjhar District of Odisha on the east.

Sundargarh is recognized as an industrial district in the map of Odisha. Steel Plant, Fertilizer Plant, Cement factory, Ferro Vanadium Plant, Machine building factory, Glass and china clay factory and Spinning mills are some of the major industries of this District. Sundargarh occupies a prominent position in the mineral map of Odisha and is rich in iron ore, limestone, manganese, dolomite, and fire clay. Major industries are the Odisha Cements Ltd, Hart Fertilizers Ltd, and Odisha Industries Ltd.

Sundargarh District has 3 sub divisions, 16 Tehsils, 17 Blocks and 262 Gram panchayats. Topographically, this district is located between latitude 21 degree 36' N to 22 degree 32' N and longitude 83 degree 32' E to 85 degree 22' E. The population of this District is 2,080,664, this being the fifth most populous District of the state. Its rural population exceeds twelve lakhs and the urban population is more than six lakhs. The male literacy rate is 82.13 and female literacy rate in the District is 65.93.

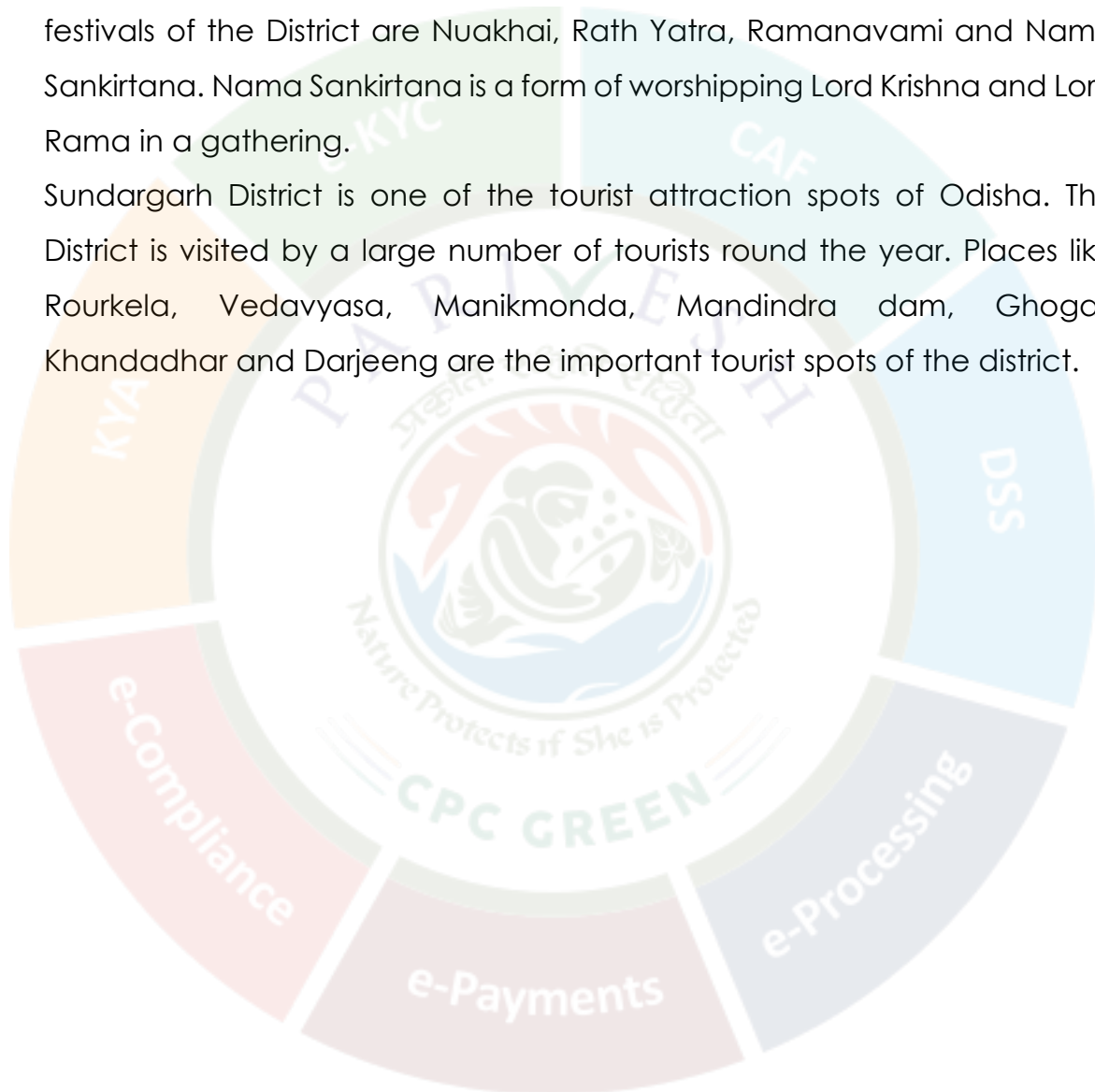
The climate of this District is characterized by extremely hot summers and cool winters. Climate is hot & moist sub humid. Normal rainfall of the District is approximately 1230 mm, but there is a deviation in receipt of rainfall pattern which is influencing crop production.

The education circle of Sundargarh revenue District was bifurcated from Sundargarh to Sambalpur education circle and came to existence since

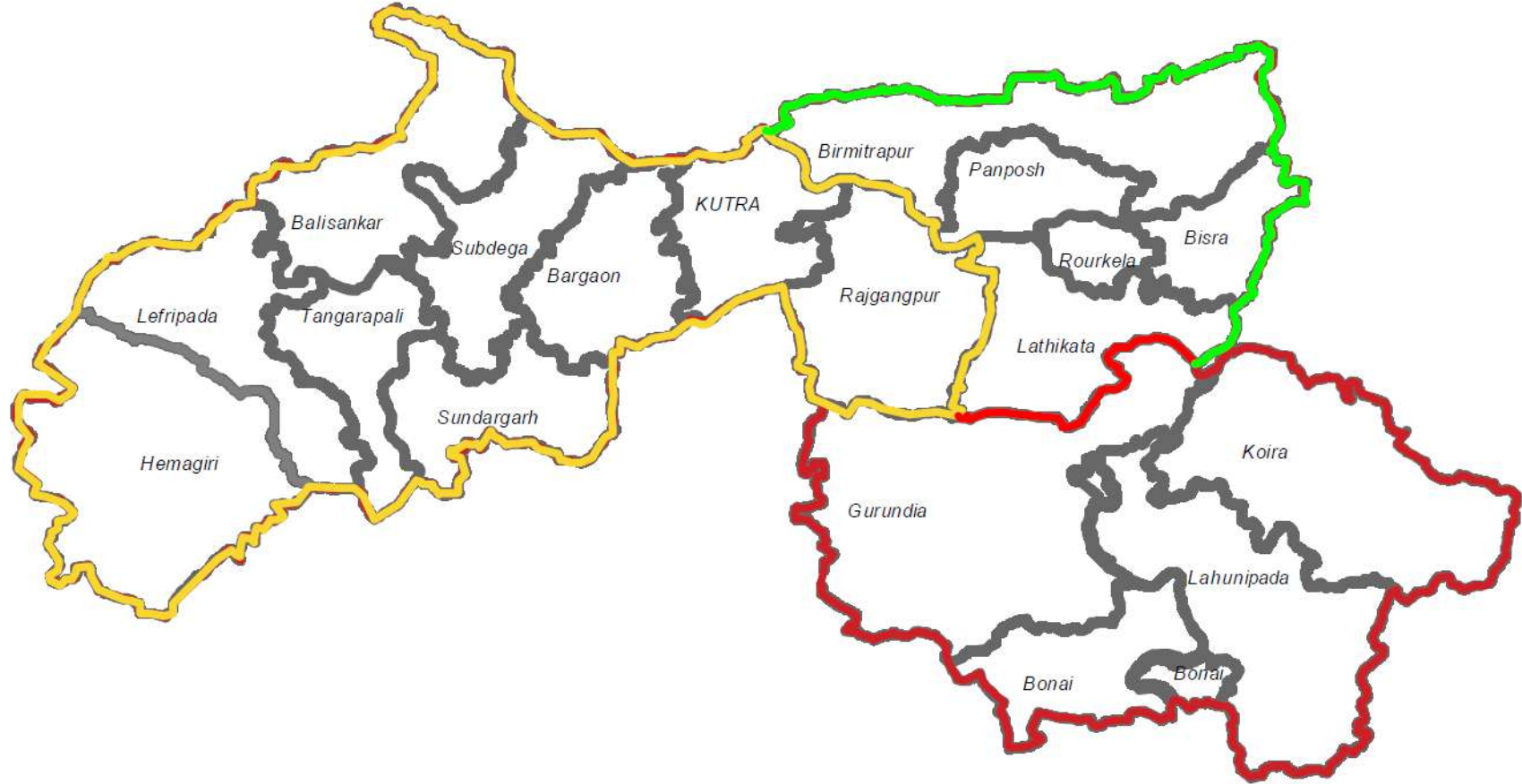
1968 with area of operation within the geographical territory of Sundargarh revenue District. There are several educational institutions in Sundargarh District. National Institute of Technology NIT at Rourkela, Government college Rourkela, S.G. Women's College Rourkela etc are prominent among them.

Sundargarh District celebrates many festivals around the year. Important festivals of the District are Nuakhai, Rath Yatra, Ramanavami and Nama Sankirtana. Nama Sankirtana is a form of worshipping Lord Krishna and Lord Rama in a gathering.

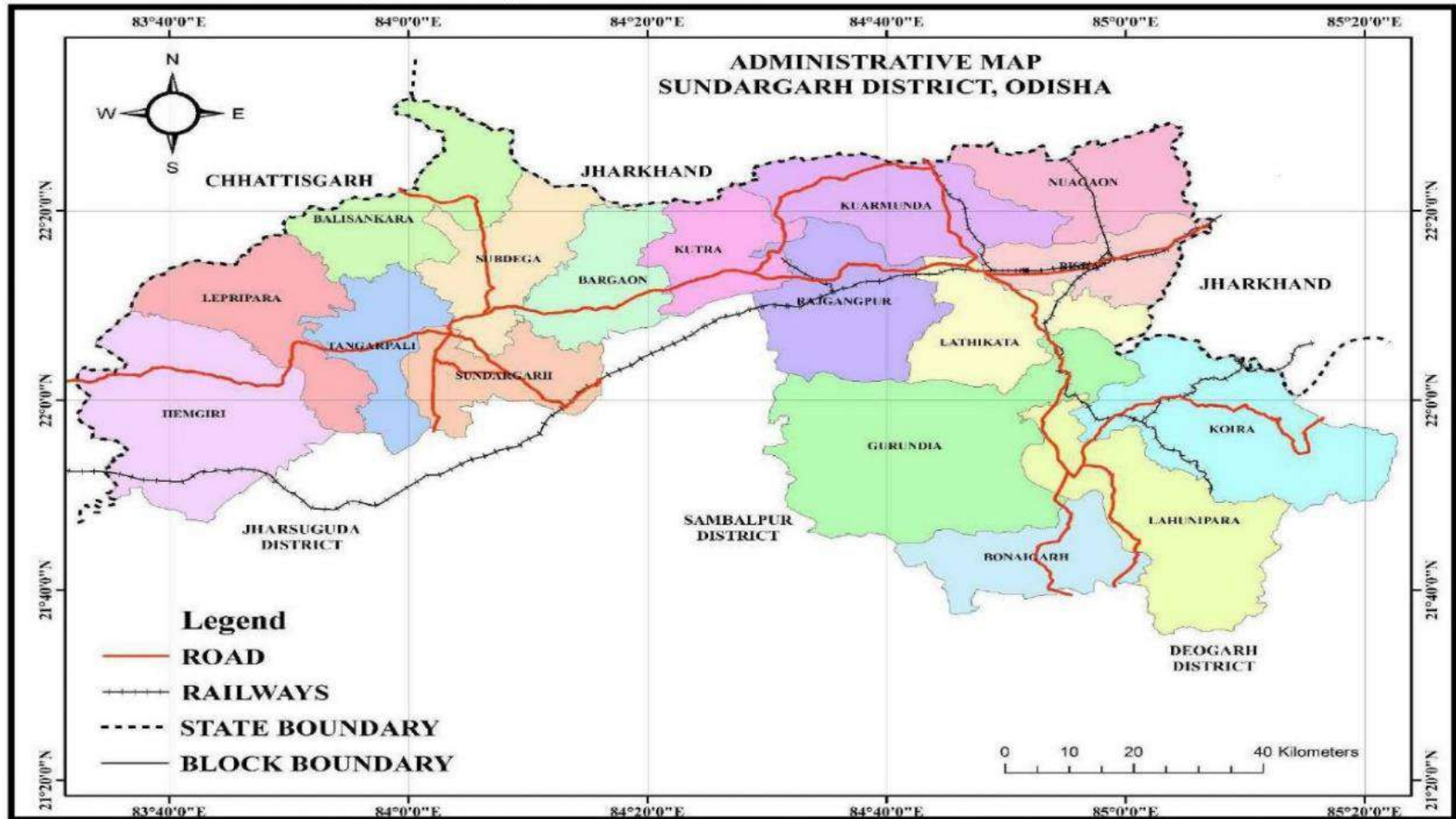
Sundargarh District is one of the tourist attraction spots of Odisha. The District is visited by a large number of tourists round the year. Places like Rourkela, Vedavyasa, Manikmonda, Mandindra dam, Ghogar, Khandadhar and Darjeeng are the important tourist spots of the district.



TAHASIL MAP



Administrative Map of Sundargarh District, Odisha.



Physiography

Sundargarh district covers an area of 9712 sq. kms., bounded by the latitude 21° 37' 30" N to 26° 12' 00" N and longitude 83° 32' 52" E to 85° 24' 39" E. Being the part of the Chhota- Nagpur Plateau, major parts of the district has rough and hilly terrain and rich in mineral resources as well. Hills of Sundargarh district may be classified in to three broad categories, Bonai hills, Sundargarh hills, Biramitrapur hills. The Bonai hills which further elongate into the Keonjhar district are known for their iron ore resources, whereas Sundargarh hills famous for coal deposits, which further elongate into Jharsuguda district and Chhatisgarh state as well.

The hills are mainly extensions of the Deccan and Chhota-Nagpur Plateau. In Sundargarh and Panposh Sub-Divisions there are mainly three hill ranges apart from a few isolated outcrops. The one, in the reserved forest blocks of Mahabir Chhatam, Topkurlu, Bhaismunda and Chirobeda on the South-East forming the boundary between Sambalpur and this district, runs East-West direction. The second, in the centres starts from Gurabasa reserved forest in South-West to North-East direction and runs through Kumbahal, Runga, Peruabhadi, Panchara and Brahmani reserved forest ending near the Sankha River. The third, on the western border of the district running South-East to the North-West direction is an extension of the wide range of hills forming the watershed between the river Mahanadi and her affluent IB. Thus these mountain ranges seem to have started from a point in the middle of the southern boundary of the district and outflanking in three different directions divide the country into separate plains.

The Hemgir plateau is flanked by a system of mountain which starts from Garjanjore (1966' or 599m.) and runs due South-East up to Bendrichuan (1343' or 409m.). There is an abrupt swing near the latter due West up to the water parting between the Garjhor and the Jhulenbar after which there is again a gentle bend due North-West up to the border of Raigarh district.

Among the ridges mention may be made of the great ridge, an extension of the Karampada range of Singhbhum , which apparently seems to be the

spine of the Toda area in East Bonai. It extends from North-East to South-West and is capped with an immense deposit of high grade hematite. The Rontha plateau (2500'-3000' or 762-914m) from which descends Khandadhar water fall is also covered with iron ore. The Bichakhani hill yields millions of tones of iron ore which feed the Rourkela steel plant. A new railway line has been laid to the foot of the hill at Dumaro for transportation of the iron ore.

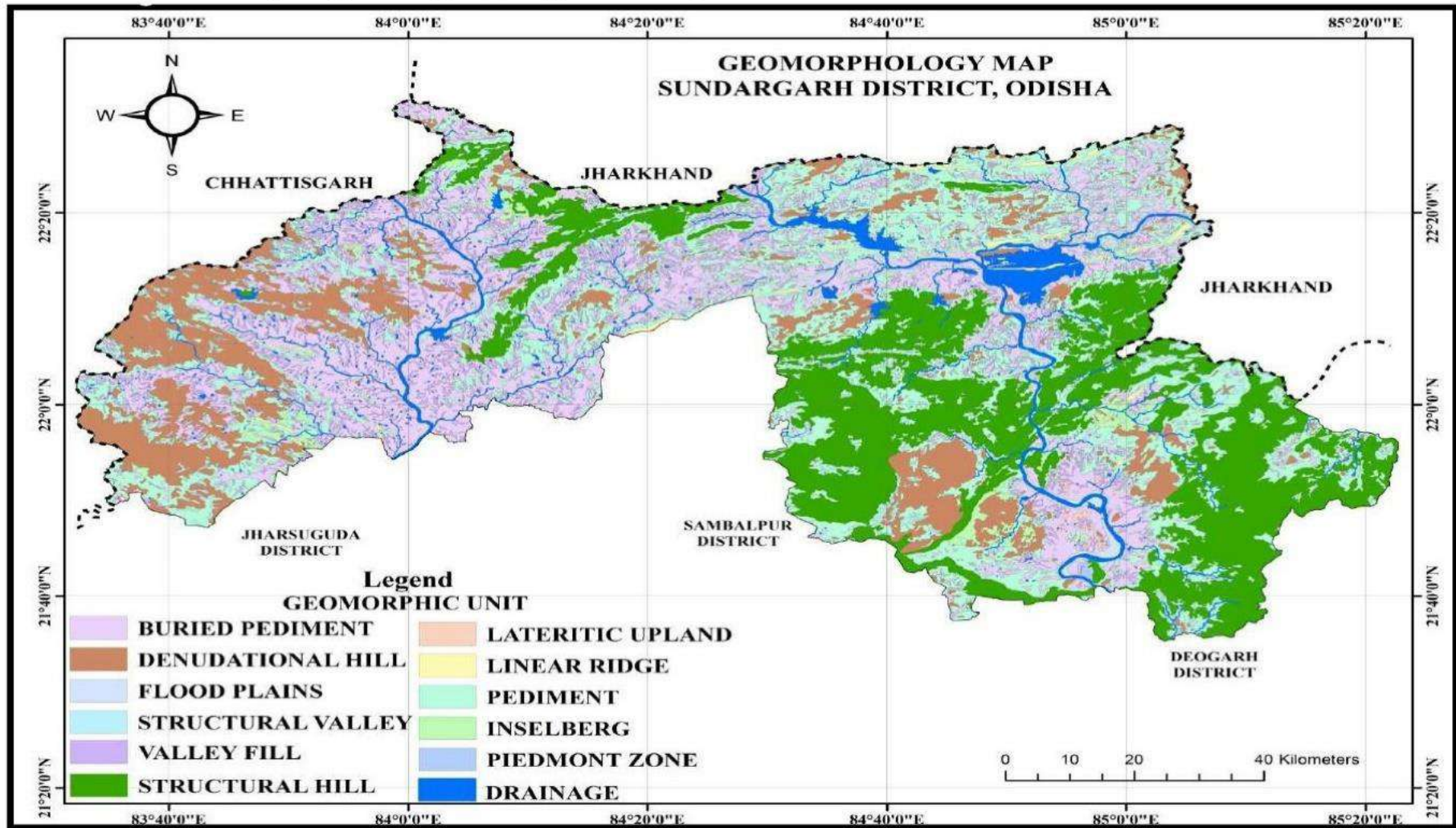
The territory covered by Sundargarh and Panposh Sub-Divisions (comprising the ex-State of Gangpur) consists of a long undulating table-land about 700ft. (213) above the sea level dotted with hill ranges and isolated peaks of considerable height. On the West of Sundargarh Sub-Division lies the Hemgir Plateau, nearly 1150 ft (351m) high, in the centre of which is located the village Hemgir. To the North of Hemgir the land is considerably hilly while to the South it is relatively plain with a minimum elevation of 709 ft (516m) near the Chuanbahal village. The eastern tract of the Sub-Division intervening between Chota Nagpur plateau and Mahavir range, for the most part, is open and well cultivated, the general elevation of which varies from 700' to 1000' (213m TO 305m) but that of the reserved forests except, of course, a few patches, comes under 1000' to 1500' (305m to 457m). Besides, numerous isolated hills and sharp ranges running generally East to West are also evenly distributed throughout the country. On the North the Chota Nagpur plateau with its foot-hills gradually falls away to the plain while the Mahavir range in the South, springs abruptly in an irregularly wall of tilted and disrupted rock and forms for some length the boundary between Sambalpur and this district. On the southern border, dense forests linking up with the forest-clad ranges of Bonai Sub-Division are also seen. Didhrapahar, the highest peak 2509' (765m) of Sundargarh Sub-Divisiion is located near the tri-junction of Sundargarh Sub-Division , Bonai Sub-Division and Sambalpur district.

The block to the North formed by the broad valleys of the Sankh, the South Koel and the Deo, although interspersed with isolated hills and series of small ridges striking East and West, is generally plain, but the tract to the South is

comparatively more hilly and wooded expecting the valley of the Brahmani which extends to an appreciable distance South of Panposh. The region extending from South of Bisra to South of Chirobeda is much broken and hilly, it raises along the Singhbhum and Bonai boundaries to an elevation of 1800' to 2000' (549m) to (610M) the highest peak being Bhaisamunda Pahar 2234' (681m). In the plains the elevation is about 600' to 700' (183m to 213m) the lowest point on the Brahmani vally on the Bonai border near Banki village being 575' (175m). The land is completely denuded of its fertility and is unsuitable for cultivation.

The principal peaks are Mankarnacha (3664ft or 1117m) and Badamgarh (3525ft or 1074m), both on Keonjhar boundary, Kumritar (3495ft or 1065m), the Bichakani (2964ft or 903m), and Khandadhar (3000ft or 914m), all in Bonai Police Station, Rengalbera (2179ft or 664m) in Banki Police Station, Baghbindha (2650ft or 808m), Raipiri (2620ft or 799m) and the Kantamunda (2524ft or 769m), all in Gurundia Police Station, Chelliakota (3331ft to 1015m), in Mahulpada Police Station, Balia (3313ft or 1010m) and the Karaspani (2483ft or 757m), both in Koira Police Station. All the above peaks are in Bonai Sub-Division, Besides, some unnamed peaks of considerable heights are also found. No hills of any significant height are found in Panposh Sub-Division. Among the peaks in Sundargarh Sub-Division mention may be made of Man (1935ft or 590m) on the Madya Pradesh border, Satparlia (1327ft or 404m) and Jogijogan (1471ft or 448m), both in Sundargarh Police Station, Mahabir (1861ft or 567m) in Bargaon Police Station, Didra (2509ft to 765m) in Rajgangpur Police Station on the trijunction of Bonai and Sundargarh Sub-Divisions and Sambalpur district. Other peaks on the Didra range are Bhaisamunda (2234ft or 681m) and Kichimir (2050ft or 625m). The last named peak is also in the Rajgangpur Police Station. Andiabira (1455ft or 443m) and Bilpahari (1333ft or 406m) are among the less prominent peaks.

Geomorphological Map, Sundargarh District, Odisha.



04. GEOLOGY OF THE DISTRICT.

GEOLOGY-

The geology of Sundargarh district consists of several lithologic groups ranging in age from oldest Archean to younger Proterozoic.

Archean rocks: All major rocks related to BIF-Greenstone-Granite association are brought under Iron Ore Super Group including mafic lava, tuffaceous shale, acid volcanics, banded hematite jasper, banded hematite quartzite with iron ore, chert, sericitic quartzite, conglomerate etc. This rock types are majorly found around South-East part of Sundargarh near Jamda-Koira.

Proterozoic rocks: The important Proterozoic groups include Darjng, Gangpur & Kolhan group.

Darjng group: This group consists of a sequence of arenaceous, carbonaceous and argillaceous formation immediately lying to the south of Gangpur group and as far south up to Bonai.

Gangpur group: This group consists of limestone and dolomite with argillaceous rock located around the central part of Sundargarh district.

Kolhan group: This group comprises purple sandstone and conglomerate overlain by limestone and slate. The Kolhans are rarely seen in Odisha though they are well exposed between Noamundi & Chaibasa.

Intrusives: A number of dolerite dykes are marked traversing granite. They are usually arranged parallel to the joint planes and occasionally occupy irregular cracks in the invaded rocks and run in any directions.

Gondwana rocks: Interbedded sequence of sandstone and shale with coal, fireclay and other rock types of pebble bed, ironstone nodules and siltstone found in Ib river valley.

Mineral resources of Sundargarh District

Basemetals: Located in the area between Lokdega & Bharatpur with Jhamankela, Nawagaon, Kodapani, Jokela, Barilipeta, Sargipali etc.

Bauxite: Located in Tantra, Kodalia, Jaldih, Kusumdihi.

Coal & Fireclay: Ib river valley.

Iron ore: Located in Barasuan, Taldihi, Kalta, Khajurdihi, Palbeda, Goua, Koida, Kurmitapahar, Rantha, Mankadanacha, Baliapahar, Badamgarhpahar, Mithihurda, basada etc.

Kyanite & Sillimanite: Reported from Kodamunada & Salijir.

Limestone and Dolomite: Located in Biramitrapur, Raibaga, Hatibari, Purunapani, Gatitangar, Lanjiberna, Khatkurbahal, Kiringsera, Bimta, Khairtola, Tumda, Lefripara, Dublabera, Litibera, Sapai river section.

Manganese ore: Located in Oratari, Patamunda, Malda, Mahulsukha, Nuagaon, Tehral, Sarkundo, Kusumdihi, Goua, Dengula, Kanthor-Koida, Oraghat, Kolmong.

Soapstone & Talc: Located in Jharbera, Bhaludunguri, Bijadihi, Barapara, Beldihi, Ghusura, Sendpor, Katurdua, Katasahi, Basudihi, Deodihi & Bandhabhuin.

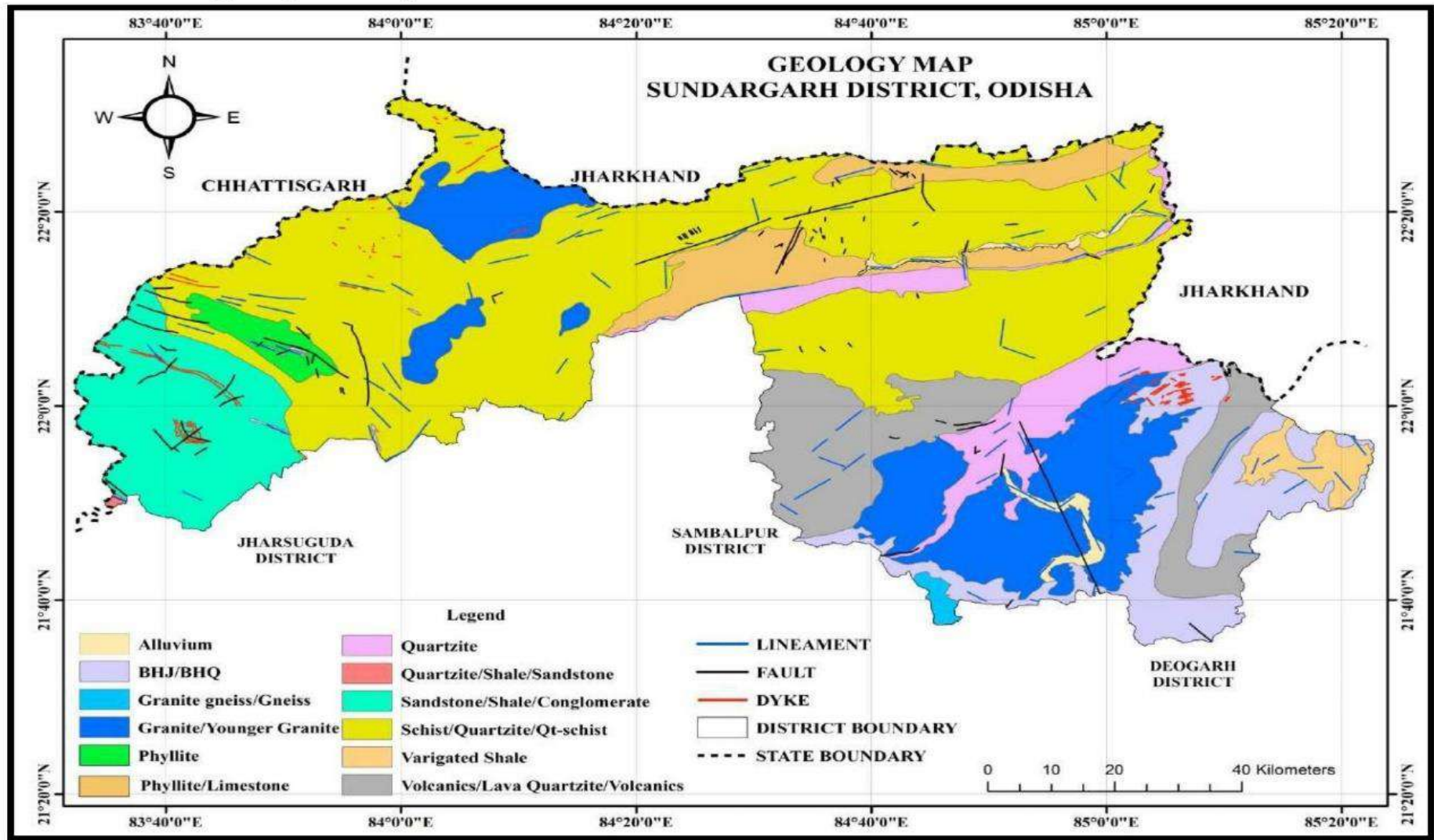
Regional Structural Set-up- There is a general increase in the grade of metamorphism when the rocks are followed from the Singhbhum boarder on the east to the centre of the anti-clinorium on the west. It should, how ever, be noted that some of the rocks, which have phyllitic appearance and characters, are really products of retrogressive metamorphism, containing relics of garnet, stourolite, biotite etc. The Satpura strike (ENE-WSW) is found to be superimposed on an earlier, presumably Eastern Ghats, strike which is prominent.

Occurrence of Road Metal/Stone: -

Road metal (also known as construction stone or aggregate) refers to hard, durable rocks used in road construction and other civil works. These materials must possess high compressive strength, resistance to weathering, and be capable of withstanding mechanical stress. The availability of such materials is largely dependent on the underlying geology of the area.

Sundargarh district, located in the northwestern part of Odisha, exhibits a diverse geological setup. The occurrence of road metal or stone in this district is primarily associated with the presence of hard igneous and metamorphic rocks.

Geology Map, Sundargarh District, Odisha.



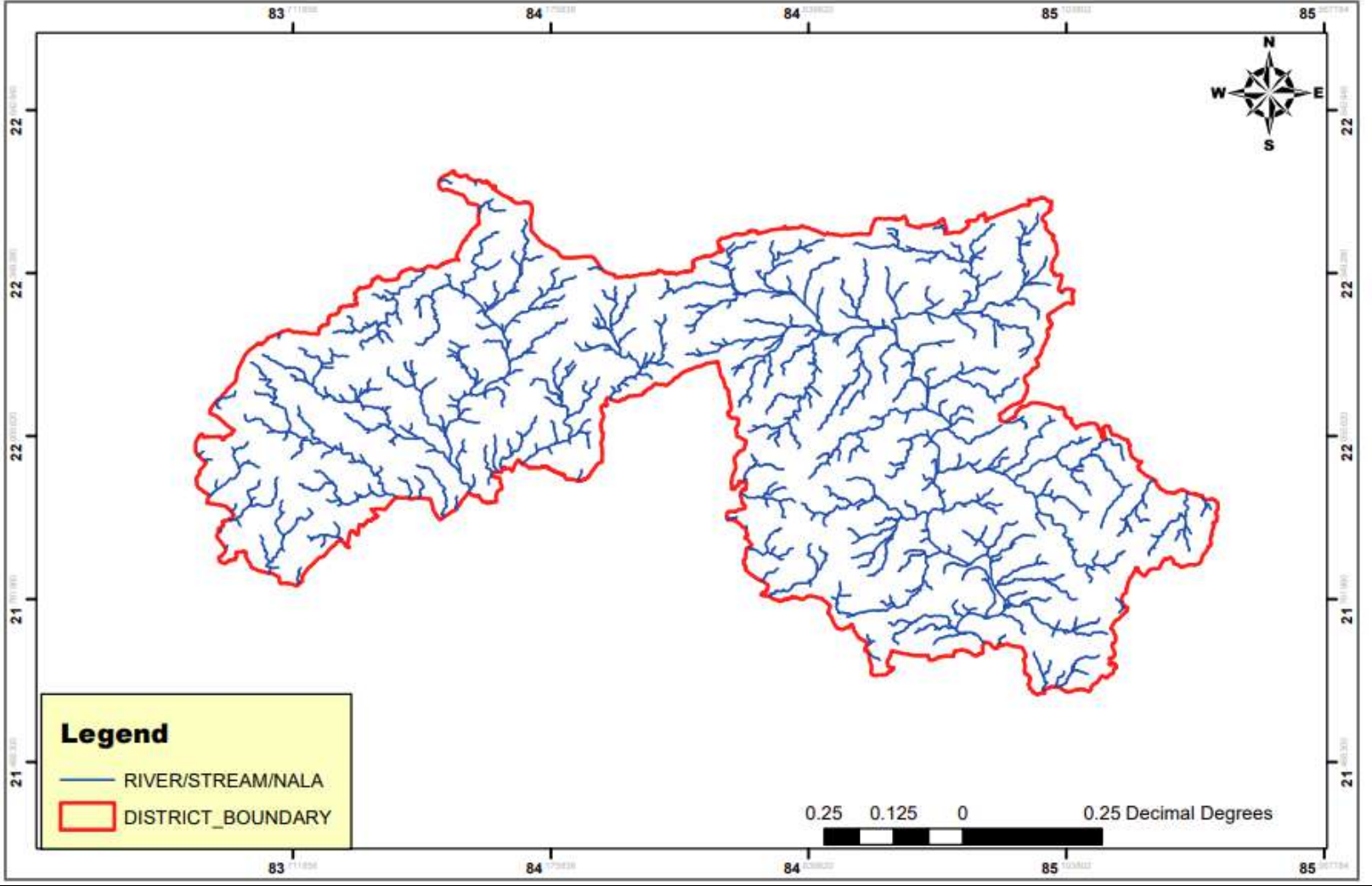
05. DRAINAGE AND IRRIGATION PATTERN.

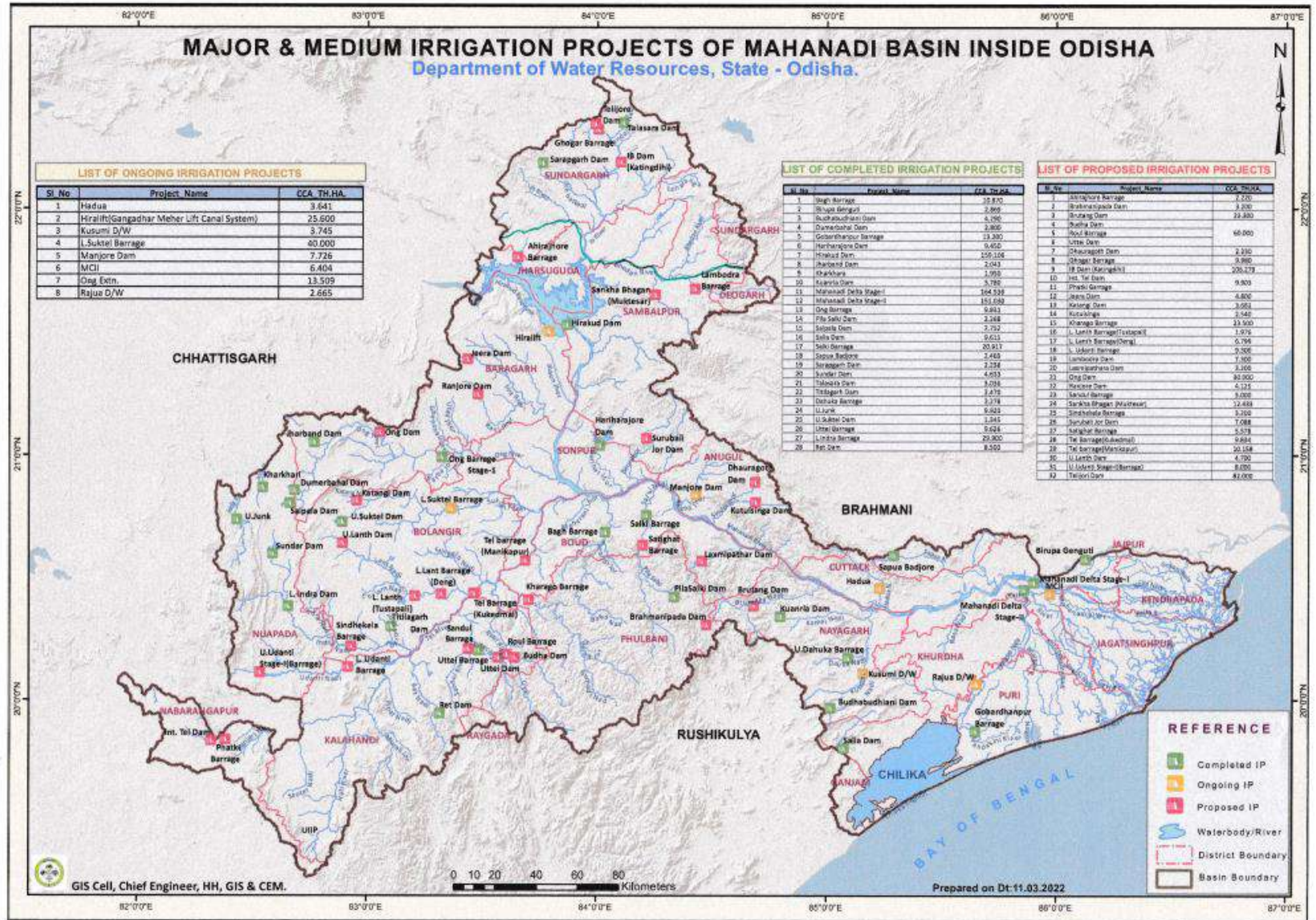
The drainage and irrigation pattern of Sundargarh district is shaped by its diverse topography, which includes hilly terrains, undulating plateaus, and forested areas. The district exhibits a dendritic to sub-parallel drainage pattern, typical of regions with varied geological structures. The major river systems include the Brahmani River, formed by the confluence of the Sankh and Koel rivers, along with other significant rivers like the IB River and numerous seasonal streams. These rivers generally flow from the north towards the south, reflecting the natural gradient of the land. The drainage network plays a crucial role not just in shaping the landscape, but also in providing potential for water resource development.

IRRIGATION PATTERN

Given the terrain and seasonal nature of many water bodies, Sundargarh has adopted a multi-pronged approach to irrigation. The district heavily relies on lift irrigation systems, drawing water from rivers and streams to upland agricultural fields. As per recent reports, over 8,400 lift irrigation projects have been implemented, including community lift irrigation schemes, deep borewells, and minor lift systems, benefiting thousands of farmers across the region. These projects cover over 66,000 hectares of farmland. Community participation is encouraged through the formation of Pani Panchayats, local water-user groups that manage and maintain these irrigation systems.

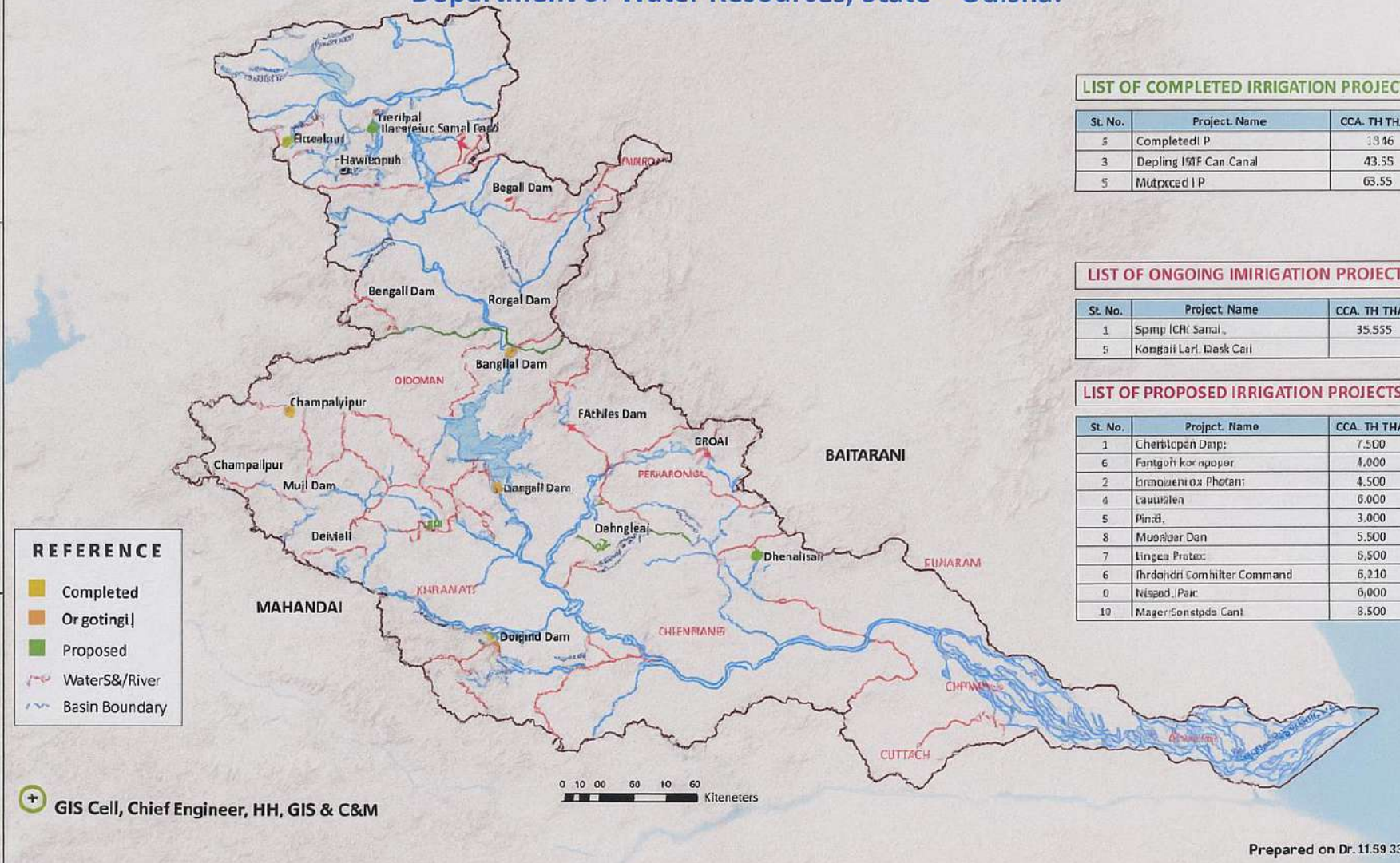
DRAINAGE MAP





MAJOR & MEDIUM IRRIGATION PROJECTS OF BRAHMANI BASIN INSIDE ODISHA

Department of Water Resources, State – Odisha.



REFERENCE

- Completed
- Ongoing
- Proposed
- Water Source/River
- Basin Boundary

GIS Cell, Chief Engineer, HH, GIS & C&M

0 10 00 50 10 60 Kilometers

LIST OF COMPLETED IRRIGATION PROJECTS

St. No.	Project Name	CCA. TH THA
1	Completed I.P	13.46
3	Depling IRTF Can Canal	43.55
5	Mitrad I.P	63.55

LIST OF ONGOING IRRIGATION PROJECTS

St. No.	Project Name	CCA. TH THA
1	Sprinkler ICR, Saral.	35.555
5	Kongali Lift. Dask Ceil	

LIST OF PROPOSED IRRIGATION PROJECTS

St. No.	Project Name	CCA. TH THA
1	Cherhlopan Dam	7.500
6	Fantgohi karnapur	4.000
2	Brahmanpur Pholani	4.500
4	Chandlen	6.000
5	Pind	3.000
8	Munhar Dam	5.500
7	Linga Pratap	9.500
6	Shrdajdi Comhiler Command	6.210
9	Nisad, Paic	9.000
10	Mager/Sonstads Canl	8.500

Prepared on Dr. 11.59.3322

06. LAND UTILISATION PATTERN IN THE DISTRICT: FOREST, AGRICULTURAL, HORTICULTURAL, MINING ETC.

Sundargarh, a district located in the Indian state of Odisha, has a diverse land use pattern due to its varied topography, natural resources, and socio-economic factors. The geographical area of the district is 9,71,200 hect. Here's a general overview of the land utilization pattern of the district:

Forest Cover: Sundargarh is known for its rich forest resources. Around 50.06% of the total land is covered by forests, including tropical and deciduous forests. These forests are not only crucial for biodiversity conservation but also serve as a source of livelihood for many tribal communities residing in the district. The forest areas of Sundargarh district fall under the supervision of three forest divisions: Bonai Forest Division, Rourkela Forest Division, and Sundargarh Forest Division. The distribution of forest land within these divisions is as follows:

Category of Forest areas in Rourkela Forest Division			
Category of Forest	Number of Blocks	Area (in Ha.)	Percentage
Reserved Forest	86	65437.7481	59.7
Proposed Reserved Forest	17	2278.8290	2.1
Demarcated Protected Forest	36	3697.379	3.4
Village Forest	35	229.168	0.2
Protected Forest	29	1595.899	1.1
DLC Forest	435 Village	20875.092	19.0
Revenue Forest	269 Village	15929.713	14.5
Total Forest area		110043.8281	100.0

Category of Forest areas in Sundargarh Division			
Category of Forest	Number of Blocks	Area (in Ha.)	Percentage
Reserved Forest	94	101186.88	58.51
Proposed Reserved Forest	26	5580.80	3.23
Demarcated Protected Forest	92	14876.85	8.60
Village Forest	146	1048.098	0.61
Protected Forest	11	567.3056	0.33
DLC Forest	216	4335.86	2.51
Revenue Forest (Other than DLC)	0	45342.23	26.22
Total Forest area		172938.024	100.00

Category of Forest areas in Bonai Forest division.			
Category of Forest	Number of Blocks	Area (in Ha.)	Percentage
Reserved Forest	45	1,02,894.567	50.62
Proposed Reserved Forest	41	34,105.896	16.78
Demarcated Protected Forest	25	5849.793	2.88
Village Forest	32	166.790	0.08
Protected Forest	30	577.464	0.28
DLC Forest	406	37291.831	18.35
Revenue Forest (Other than DLC)	-	61.731	0.03
Reserved Forest	186	22,331.549	10.99
Total Forest area		203279.621	100

Agricultural Land: Agriculture is a predominant land use in Sundargarh. Out of the total area 10.7% of area used as Agriculture land. The fertile plains and valleys support the cultivation of a variety of crops such as rice, pulses, oilseeds, and vegetables. Traditional agricultural practices are prevalent, although efforts are being made to introduce modern farming techniques for improved productivity.

Block Wise Land Utilisation Pattern in Sundargarh District

Sl. No.	Blocks	Geographical Area (In Ha)	Cultivated Area (In Ha)				Paddy Area (In Ha)	Non-Paddy Area (In Ha)
			High	Medium	Low	Total		
1	Hemgir	93238	10887	5064	2833	19324	12916	6408
2	Lephripara	64022	8908	4263	3003	16174	10371	5803
3	Tangarpali	24966	8800	6027	2424	17251	11765	5486
4	Sundargarh	35988	8529	7906	2741	19176	13285	5891
5	Subdega	32428	6810	4526	5271	16607	10739	5868
6	Balisankara	108476	8548	4074	5796	18418	12135	6283
7	Bargaon	35661	7750	5234	3330	16314	10564	5750
8	Kutra	31885	10367	6281	2785	19433	10896	8537
9	Rajgangpur	34897	12342	3583	2940	18865	10608	8257
10	Lathikata	74904	11025	10690	2980	24695	18338	6357
11	Kuarmunda	57672	11966	6755	3798	22519	15668	6851
12	Nuagaon	38888	20176	3856	3448	27480	21265	6215
13	Bisra	22560	6526	1057	1781	9364	5488	3876
14	Bonai	27077	7476	6621	2991	17088	11271	5817
15	Lahunipara	77768	9970	6520	2754	19244	13098	6146
16	Koida	84940	6665	4594	3010	14269	9538	4731
17	Gurundia	125874	6255	7409	3115	16779	11055	5724
ADO Bonai		315659	30366	25144	11870	67380	44962	22418
G.Total		971244	163000	95000	55000	313000	209000	104000

Horticulture Land: Horticulture plays a significant role in the agricultural landscape of Sundargarh district, contributing to both the local economy and food security. Sundargarh district is conducive to the cultivation of a variety of fruits due to its favorable climate and soil conditions. Mango, banana, guava, citrus fruits, papaya, and pineapple are some of the commonly grown fruits in the region. A wide range of vegetables, including tomatoes, potatoes, onions, leafy greens, and root vegetables, are cultivated through both traditional and modern farming practices. Vegetable cultivation often takes place in small plots of land, both in rural and peri-urban areas. Turmeric, ginger, garlic, and chili peppers are some of the spices and condiments grown in the district.

Horticultural Land Utilisation Pattern in Sundargarh District

Vegetable			Fruit crops			Ornamental Crops		
Sl. No.	Name of crop	Area covered in ha.	Sl. No.	Name of crop	Area covered in ha.	Sl. No.	Name of crop	Area covered in ha.
1	Okra	4284.6	1	Anala	60.8	1	Gerbera	0
2	Onion	1886	2	Bael	602.4	2	Gladioli	0
3	Pea	669	3	Banana	644.3	3	Marigold	176.8
4	Pointed Gourd	101.8	4	Ber	604.1	4	Rose	65
5	Potato	2037	5	Guava	930	5	Tuberose	0
6	Radish	623.5	6	Jack Fruit	900	Total Area		
7	Leafy Vegetables	762	7	Litchi	1032.7	241.8		
8	Sweet Potato	3085.4	8	Mango	9966.45	Spice Crops		
9	Tapioca	26.65	9	Papaya	255	Sl. No.	Name of crop	Area covered in ha.
10	Tomato	3036.5	10	Pineapple	60	1	Betelvine	0
11	Other Gourds	2077.6	11	Pomegranate	39.1	2	Coriander	356.1
12	Cowpea & YLB	828.4	12	Sapota	23.8	3	Ginger	800
13	Other Root Crops	850	13	Other Fruit Crops	2325.08	4	Turmeric	211.5
14	Other Vegetables	1189	14	K.Lime	1603.9	5	Other spices	644
15	Beans	460.68	15	Other Citrus	65	6	Chilli (green)	5255.05
16	Bitter Gourd	544.3	Total Area			7266.65		
17	Bottle Gourd	1039.8	19112.63			Plantation Crops		
18	Brinjal	4176.5	Sl. No.	Name of crop	Area covered in ha.			
19	Cabbage	1844	1	Areca nut	0			
20	Capsicum	28.9	2	Oil Palm	0			
21	Carrot	2.5	3	Cashew Nuts	2227.4			
22	C.Flower	15.52	4	Cocconut	547.2			
23	Cucumber	100.6	Total Area			2774.6		
24	PumPkin	794.9						
25	Watermelon	410.9						
26	Muskmelon	0.54						
27	Garlic	482.8						
Total Area		31359.39						

Mining and Industrial Zones: Sundargarh is rich in mineral resources, particularly iron ore, manganese, and limestone. Consequently, mining activities play a significant role in the district's economy. Industrial zones, including steel plants and related industries, are established in areas with abundant mineral deposits. However, the environmental impact of mining and industrial activities is a concern.

Major mineral area details are given in the over view of mining activities chapter.

07. SURFACE WATER AND GROUND WATER SCENARIO OF THE DISTRICT.

(Source CGWB).

Surface Drainage: The district is drained by a network of rivers and streams, the IB and Brahmani rivers being the most important. The drainage pattern is dendritic in nature. The easterly flowing sankh and westerly flowing koel rivers join at Vedavyas near Rourkela to form the Brahmani River. The Brahmani River along with its numerous tributaries control the drainage of the eastern part of the district. The river, Ib a tributary of Mahanadi controls the drainage of the western parts of the district. The smaller streams are in general epehemeral flowing 6-9 months in a year.

The hydrogeological conditions vary from place to place depending upon the aquifer characteristics of the litho units, sources of groundwater recharge and the structural setting of the area. The hydrogeological units of the area are broadly categorized into three groups namely:

- A. Consolidated formations.
- B. Semi Consolidated formations
- C. Unconsolidated formations

Consolidated Formations:

Except for small strips along major drainage courses, almost the entire district is occupied by the consolidated formations comprising of Precambrian metasediments of Gangpur series and Iron ore series and also granite gneiss, metasediments like amphibolite, epidiorite etc. Ground water is stored mainly in the secondary porosity resulting from weathering and fracturing of the rocks. The aquifer materials are highly heterogeneous in character showing both vertical and lateral variations. The weathered residuum forms the main repository of ground water, in which ground water occurs under water table condition and circulates through deeper fractures and fissures. Ground water occurs under

confined to semi-confined condition in the deeper fractured zones. The water yielding capacity of fractured rocks largely depends on the extent (depth and degree) of fracturing, openness and size of fractures and extent of their interconnections to the near surface weathered zone. Usually, two to four water bearing fracture zones occur down to a depth of 100 m bgl.

Water Bearing Properties of Major Litho Units:

Mica Schist: -These rocks are highly weathered. The depth of the open wells varies from 5.55 to 16.38m and the depth to water level varies from 4.57 to 11.50m during premonsoon periods with an average of 7m. The seasonal average water level fluctuation is of the order of 3m. The recorded yield of the bore well is around 2.25 lps and of open wells 2 to 4.16 lps.

Carbonaceous phyllites: -These rocks are highly jointed and well foliated. The depth of the open wells in phyllites ranges from 11.82 and the depth to water level during premonsoon period varies from 1.4 to 13.07m below the land surface. The seasonal water level fluctuation is of the order of 4m. The yield of the bore wells is very low, the maximum being 2 lps.

Metasbasics: - Amphibolites are most common metabasic rocks in the district occurring usually as bands. Epidiorites also occur in the district. These rocks are highly jointed. Open wells located in the meta basics sometimes provide a good source of water. Depth of the open wells ranges from 4.42 to 9.00m and premonsoon depth to water levels ranges from 4.10 to 8.34m below ground level. Seasonal water level fluctuation is around 3lps and the yield from 1.36 to 7.4 lps.

Lime stone and Dolomite: - Lime stone and dolomite occur in Nuagaon, Kuarmunda and Rajgangpur blocks. These rocks show Krastification in varying degrees. Solution cavities are also present in the Birmitrapur limestones. Karst development has been facilitated by vertical as well as low dipping joints. The krastification and occurrence of solution cavities

are confined to shallow depths. The depth to water level during premonsoon varies from 3.56 to 5.8m.

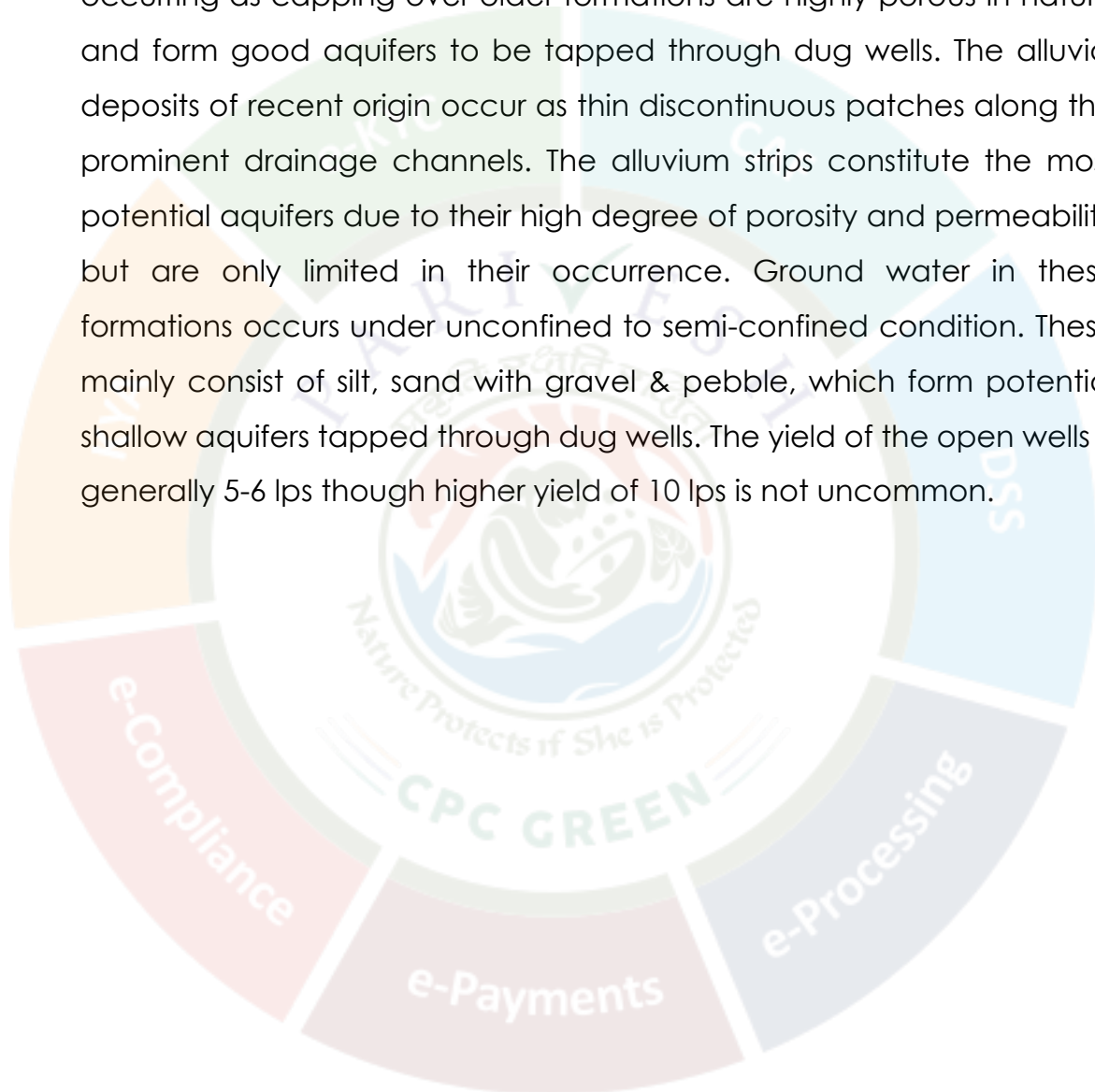
Granite and Granite gneiss: -These are the major rock types occurring in Bonaigarh and Sudargarh areas. The texture varies from coarse grained to fine grained types. These rocks are well foliated and jointed and generally have a thick weathered zone. The depth of the open wells generally varies from 4.00 to 18.00m and the depth to water level during premonsoon period varies from 3.11 to 12.21 m. The seasonal average water level fluctuation is around 3m. The weathered and fractured granite gneiss form the most productive aquifer in the terrain. The maximum yield of the bore well is 7 lps.

Quartzites: Quartzites occur mainly as bands and are resistant to weathering. These rocks have very thin weathered mantle and are devoid of joints and other weak planes. These rocks have very poor potential for ground water development except when fractured and fissured. The depth of the open wells varies from 5.92 to 12.50m and the depth to water levels during premonsoon period varies from 3.07 to 9.50 m below ground level. The yield of the open well is generally less than 2 lps.

Semi-Consolidated formation: The semi consolidated formation is constituted of sand stone, shales, conglomerates, grits etc belonging to Talcher, Barakar and Kamth is of lower Godwin. The Barakar formation is very well developed and often constitute potential aquifer in the area. The coarse-grained gritty sandstone on weathering give rise to porous sandy materials. Large diameter open wells and medium deep tube wells are feasible in this formation. The depth of the open wells ranges from 7.25m to 18.42m and the premonsoon depth to water level varies from 6.65m to 15.99m below ground level.

The shale, sandstones of Talcher formation do not form productive aquifer. However, the needle shales having intersecting joints often form moderately good aquifers.

Unconsolidated Formation: Laterites and alluvium of Sub-recent to Recent age constitute the unconsolidated formations. Laterites occurring as capping over older formations are highly porous in nature and form good aquifers to be tapped through dug wells. The alluvial deposits of recent origin occur as thin discontinuous patches along the prominent drainage channels. The alluvium strips constitute the most potential aquifers due to their high degree of porosity and permeability but are only limited in their occurrence. Ground water in these formations occurs under unconfined to semi-confined condition. These mainly consist of silt, sand with gravel & pebble, which form potential shallow aquifers tapped through dug wells. The yield of the open wells is generally 5-6 lps though higher yield of 10 lps is not uncommon.

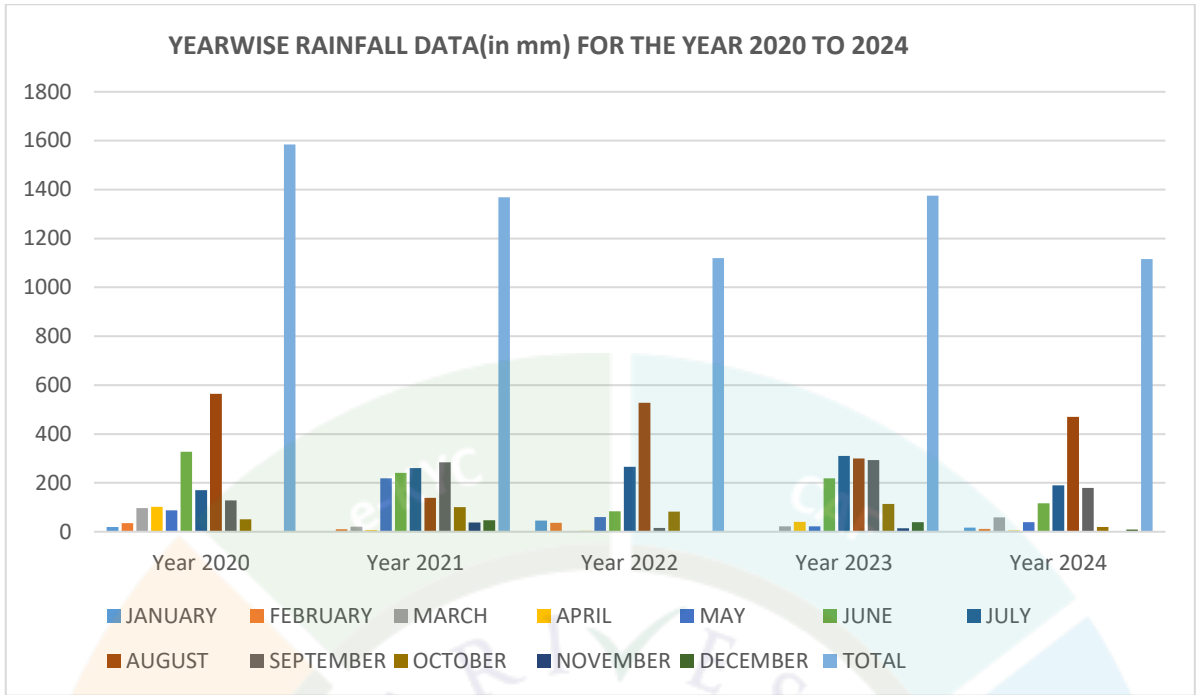


08. RAINFALL OF THE DISTRICT AND CLIMATIC CONDITION.

The district enjoys sub-tropical climate characterized by hot and dry summer, cold winter and erratic rainfall in monsoon. The winter season extends from November to end of February, which is followed by summer season from March to the middle of June, and rainy season from middle of June to middle of October. During summer months the maximum temperature rises up to 43° C and May is the hottest month. December is the coldest month of the year when the average daily temperature drops down to 8° C. Relative humidity is around 60-70% throughout the year. The highest and lowest monthly mean relative humidity so far recorded is 97% (Dec) and 26% (April).

The District Rainfall in milli-meters (R/F) shown below are the arithmetic averages of Rainfall of Stations under the District.

YEARWISE RAINFALL DATA(in mm) FOR THE YEAR 2020 TO 2024					
Month	Year 2020	Year 2021	Year 2022	Year 2023	Year 2024
JANUARY	19.96	2.01	45.27	0	16.49
FEBRUARY	35.44	10.02	36.08	0	11.42
MARCH	96.74	20.3	0	21.78	58.64
APRIL	101.48	6.23	3.48	40.52	4.88
MAY	87.74	218.74	59.58	22.41	39.47
JUNE	326.95	241.35	83.54	218.82	116.84
JULY	170	261.14	265.68	310.15	189.8
AUGUST	564.19	138.08	527.69	300.35	470.13
SEPTEMBER	128.53	284.65	15.87	293.33	178.73
OCTOBER	51.29	101.15	82.3	114.25	19.41
NOVEMBER	2.88	37.24	0	13.78	1.07
DECEMBER	0	47.38	0	39.51	9.3
TOTAL	1585.2	1368.29	1119.49	1374.9	1116.18



09. DETAILS OF THE MINING LEASES IN THE DISTRICT AS PER THE FOLLOWING FORMAT.

Sundargarh district in Odisha has numerous mining leases for stone and road metal, classified as minor minerals. These leases are granted by the state government under the Mines and Minerals (Development and Regulation) Act, 1957. The mining activities are primarily carried out for construction materials and infrastructure development.

SL. NO	NAME OF THE MINERAL	NAME OF THE LESSEE	ADDRESS & CONTACT NO. OF LESSEE	MINING LEASE GRANT ORDER NO. & DATE	AREA OF MINING LEASE (IN HA)	PERIOD OF MINING LEASE (INITIAL)		DATE OF COMMENCEMENT OF MINING OPERAION	STATUS (WORKING /NON-WORKING/ TEMP. WORKING FOR DESPATCH ETC.)	OBTAINED ENVIRONMENTAL CLEARANCE (Y/N) IF Y LETTER NO. WITH DATE OF GRANT OF E.C	LOCATION OF THE MINING LEASE LAND SCHEDULE AND (LATITUDE & LONGITUDE)
						FROM	TO				
1	2	3	4	5	6	7	8	11	12	14	15
A.NAME OF THE TAHASIL:- BALISANKARA											
A1	DEOBHUBANPUR STONE QUARRY	SANTOSH KUMAR PATEL S/O BHIKARI PATEL	PRADHANPART, P.O- MAHULPALI, DIST- SUNDARGARH MOB:- 9556664434	1170210045 5 03-06-2021	0.899	03-06-2021	02-06-2026	03-06-2021	NON-WORKING	YES, LETTER NO 747/SEIAA DT. 26.02.2021	AT- DEOBHUBANPUR, KHATA NO.- 351 PLOT NO.- 3448, 3449, 3450, KISSAM-PATITA, LATITUTE- 22°17'10.31" TO 22°17'15.26" , LONGITUTE – 83°54'15.45" TO 83°54'19.77"
NEW SOURCES											
A2	DEOBHUBANPUR STONE QUARRY(NEW)	PROPOSED NEW SOURCE	PROPOSED NEW SOURCE	PROPOSED NEW SOURCE	2.051	PROPOSED NEW SOURCE	PROPOSED NEW SOURCE	PROPOSED NEW SOURCE	NON-WORKING	NO	AT-DEOBHUBANPUR, KHATA NO- 333/278, PLOT NO-3465,3466 & 3468, KISSAM-GODA-II
C.NAME OF THE TAHASIL:- BISRA											
C1	KUDARBAHAL STONE QURRY-3	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	1.214	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	NON-WORKING	NO	MOUZA-KUDARBAHAL, KHATA NO-36, PLOT NO-233/P, KISSAM-TUMGURI, LAT-22°12'23.94"N TO 22°12'27.05"N , LONG-84°57'4.56"E TO 84°57'10.11"E
C2	KUDARBAHAL STONE QUARRY-2	KRISHNA ORAM	ROURKELA 9937678124	1824 & 02.09.2020	2.023	LEASE DEED NOT DONE	LEASE DEED NOT DONE	LEASE DEED NOT DONE	NON-WORKING	NO	MOUZA-KUDARBAHAL, KHATA NO- 33,PLOT NO-232/362 ,KISSAM-PATITA,LAT-22°12'34.87" TO 22°12'38.62" ,LONG-84°57'10.67" TO 84°57'18.13"

C3	KUDARBAHAL STONE QURRY-1	KRISHNA ORAM	ROURKELA 9937678124	1823 & 02.09.2020	1.76	LEASE DEED NOT DONE	LEASE DEED NOT DONE	LEASE DEED NOT DONE	NON-WORKING	NO	MOUZA-,KHATA NO-33,36,PLOT NO- 232/363/P & 233/P,KISSAM-PATITA & DUNGURI,LAT-22°12'26.67"N TO 22°12'30.71"N, LONG-84°57'5.14"E TO 84°57'11.96"E
C4	DUMERTA-1 STONE QUARRY	Pramod Kumar Pandey	BISHRA DAHAR ROAD, ROURKELA	861 & 30.04.2022	2.428	12.09.20 22	11.09.20 27	12.09.2022	WORKING	Yes, Letter No- EC22B001 OR197723 , Dt.22.07.2 022	MOUZA-DUMERTA, KHATA NO-114 PLOT NO-366/P,AREA-1.5AC, KISSAM- PATIT PLOT NO-374/P, AREA-4.5AC, KISSAM-TUNGURI LATITUDE- 22° 12'43.44" N TO 22° 12' 35.72" N AND LONGITUDE- 84° 55' 16.30" E TO 84° 55' 24.63" E
C5	MAHIBERNA STONE QUARRY	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	0.85	BIDDER NOT FINALIZE D	BIDDER NOT FINALIZE D	BIDDER NOT FINALIZED	NON-WORKING	NO	MOUZA- MAHIBERNA, KHATA NO-28 PLOT NO 121/181 KISSAM-GODA-II LATITUDE- 22° 18'19.9" N TO 22° 18' 22.6" N AND LONGITUDE- 85° 06' 02.0" E TO 85° 06' 06.1" E
C6	BIRKERA STONE QUARRY	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	1.618	BIDDER NOT FINALIZE D	BIDDER NOT FINALIZE D	BIDDER NOT FINALIZED	NON-WORKING	NO	MOUZA-BIRKERA, KHATA NO-79, PLOT NO 672/1176, KISSAM-PATIT, LAT- , LONG-
NEW SOURCES											
C7	MAHIPANI STONE QUARRY-1 (NEW)	PROPOSED NEW SOURCE	PROPOSED NEW SOURCE	PROPOSED NEW SOURCE	0.81	PROPO SED NEW SOURC E	PROPO SED NEW SOURC E	PROPOSED NEW SOURCE	NON-WORKING	NO	AT-MAHIPANI, KHATA NO-142, PLOT NO-28/P, KISSAM-GACHAR,AREA-2 ACRE
C8	MAHIPANI STONE QUARRY-2(NEW)	PROPOSED NEW SOURCE	PROPOSED NEW SOURCE	PROPOSED NEW SOURCE	1.01	PROPO SED NEW SOURC E	PROPO SED NEW SOURC E	PROPOSED NEW SOURCE	NON-WORKING	NO	AT-MAHIPANI, KHATA NO-142, PLOT NO-634/P, KISSAM-GRAMYA JANGAL,AREA-2.50 ACRE
D.NAME OF THE TAHASIL:- BONAI											
D1	CHANDRAPUR STONE QUARRY	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	4.046	BIDDER NOT FINALIZE D	BIDDER NOT FINALIZE D	BIDDER NOT FINALIZED	NON-WORKING	NO	MOUZA- CHANDRAPUR, KHATA NO- 171, PLOT NO.- 478/P, LATITUDE- 21°43'46.40" TO 22°43'51.85" LONGITUTE- 84°49'46.93" TO 84°49'36.01"
E.NAME OF THE TAHASIL:- GURUNDIA											
E1	SAN-MUSAPOSH STONE QUARRY- 1	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	2.428	BIDDER NOT FINALIZE D	BIDDER NOT FINALIZE D	BIDDER NOT FINALIZED	NON- WORKING	NO	MOUZA- SAN-MUSAPOSH, KHATA NO. 4, PLOT NO. 2/P, KISSAM- PAHAD

E2	SAN-MUSAPOSH STONE QUARRY-2	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	2.428	BIDDER NOT FINALIZE D	BIDDER NOT FINALIZE D	BIDDER NOT FINALIZED	NON-WORKING	NO	MOUZA- SAN-MUSAPOSH, KHATA NO. 4, PLOT NO. 3/P, KISSAM- PAHAD
F.NAME OF THE TAHASIL:- HEMGIRI											
F1	SARBAHAL STONE QUARRY	SRI SUSIL KUMAR AGRAWAL, SHREE BALAJI ENGICONS PVT. LTD.	SRI SUSIL KUMAR AGRAWAL, SHREE BALAJI ENGICONS PVT. LTD. AT- BELPAHAR, DIST: JHARSUGUDA. MOB- 9437050716	7812 & DT. 05.06.2021	1.656	04-07- 2022	03/07/2 027	04-07-2022	WORKING	YES, 2619/04.0 9.2021	MOUZA-SARBAHAL, KHATA NO. 49/134, PLOT NO. 1132,1145,1143,1140,1139,, 1138,1137,1136 & 1135, KISSAM-MALA SADHARANA,GODA - II, LONGITUDE- 83°48'29.33" TO 83°48'36.49", LATITUDE -21°57'29.66" TO 21°57'33.85"
NEW SOURCES											
F2	SANBALICHUAN STONE QUARRY	PROPOSED NEW SOURCE	PROPOSED NEW SOURCE	PROPOSED NEW SOURCE	2.145	PROPO SED NEW SOURC E	PROPO SED NEW SOURC E	PROPOSED NEW SOURCE	NON-WORKING	NO	MOUZA-BALICHUANBADA & SAN BALICHUAN, KHATA NO. 84/158 & 38/60, PLOT NO.978,121,120,119/355,119/358 , KISSAM-GODA-2 & MA.SA ,LATITUDE- 22° 3'18.27"N TO 22° 3'23.13"N" AND LONGITUDE- 83°50'28.24"E TO 83°50'33.39"E ,AREA-5.30 ACRE
F3	SARBAHAL-A STONE QUARRY(NEW)	PROPOSED NEW SOURCE	PROPOSED NEW SOURCE	PROPOSED NEW SOURCE	12.695	PROPO SED NEW SOURC E	PROPO SED NEW SOURC E	PROPOSED NEW SOURCE	NON-WORKING	NO	AT-SARBAHAL, KHATA NO-50, PLOT NO-1062,1087,1144,1146, KISSAM- JUNGLE, KHATA NO-52, PLOT NO- 1066,1071,1078,1077, KISSAM-JUNGLE & MALA SADHARANA, AREA-31.37 ACRE
G.NAME OF THE TAHASIL:- KOIRA											
G1	SIANBAHAL STONE QUARRY	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	4.856	BIDDER NOT FINALIZE D	BIDDER NOT FINALIZE D	BIDDER NOT FINALIZED	NON WORKING	NO	MOUZA-SIANBAHAL, KHATA NO.21 (AAA), PLOT NO. 30, KISSAM- DUNGURI ,LAT-22°01'06.77" TO 22°01'13.18", LONG- 85°01'03.21" TO 85°01'20.48"
G2	THELAKUDAR-I STONE QUARRY	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	4.047	BIDDER NOT FINALIZE D	BIDDER NOT FINALIZE D	BIDDER NOT FINALIZED	NON WORKING	NO	MOUZA-THELAKUDAR, KHATA NO. 26, PLOT NO.126/P LA-21° 59 '04.93"N TO 21° 58' 57.58"N LO- 84° 58' 06.40"E TO 84° 57' 58.70"E

G3	BANKO STONE QUARRY	NEERAJ PANDEY	TTT/10 CIVIL TOWNSHIP ROURKELA	1809 & dt. 28.10.2020	4.856	07-04-2022	06-04-2027	07-04-2022	WORKING	EC24C01 08OR5343 801T 02-03-2024	MOUZA-BANKO,KHATA NO. 47 (AAA), PLOT NO. 342/P, KISSAM-PATHAR CHATAN, LAT-22°03'58.43" TO 22°03'50.56" LONG- 85°05'23.92" TO 85°05'11.92"
G4	THELAKUDAR-II STONE QUARRY	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	0.93	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	NON-WORKING	NO	MOUZA-THELAKUDAR, KHATA NO-26, PLOT NO.126/2, KISSAM- PAHAD, LAT- 21°59'03.89" TO 21°59'08.52" LONG- 84°57'56.66" TO 84°58'01.48"
I.NAME OF THE TAHASIL:- LATHIKATA											
I1	ASURCHHAPAL STONE QUARRY-1	ABINASH JENA	L/174,PHASE-I,CHHEND COLONY,PO: ROURKELA-15,PS-CHHEND DISTRICT-SUNDARGARH,ODISHA,PIN:-769015	NO.2532/ DTD.14.08.2020	1.777	02-03-2021	01-03-2026	02.03.2021	WORKING	SEIAA-634/09-2020 DT-14/12/2020	AT:- ASURCHHAPAL, KHATA NO-112, PLOT NO-385/P, KISSAM-PAHAD,LAT-22°10'13.88" TO 22°10'17.02",LONG-84°52'33.98" TO 84°52'36.96",
I2	BALANDA STONE QUARRY-1	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	4.249	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	NON-WORKING	NO	AT:- BALANDA, KHATA NO-504, PLOT NO-1897/P, KISSAM-PARBAT LATITUDE-22° 11'25.63" N TO 22° 11' 33.07" N AND LONGITUDE- 84° 45' 01.18" E TO 84° 45' 09.08" E
I3	BALANDA STONE QUARRY-2	PRITAM SAHOO	QTR NO-O/29, CIVIL TOWNSHIP, ROURKELA-4, DIST-SUNDARGARH	2562 & DT.16.08.2022	4.876	30-01-2023	29-01-2028	30-01-2023	WORKING	SIA/OR/MIN/64583/2021 23-03-2023	AT:- BALANDA, KHATA NO-504, PLOT NO-1897/P, KISSAM-PARBAT LATITUDE-22°11'25.03"N TO 22°11'31.41"N AND LONGITUDE- 84°45'02.86"E TO 84°45'11.64"E
I4	BALANDA STONE QUARRY-3	SHANKARLAL AGARWAL	KADAMWAL NIWAS,POWERHOUSE ROAD,ROURKELA-769001	NO.4269/DT 01.12.2021	4.046	03-05-2023	02-05-2028	03-05-2023	WORKING	83076/774-MINB1/11-2022 DT-03/01/2023	AT:- BALANDA, KHATA NO-504, PLOT NO-1893/P, KISSAM-PAHAD LATITUDE-22°11'26.70" TO 22°11'31.97" AND LONGITUDE- 84°45'12.70" TO 84°45'23.53"
I5	BALANDA STONE QUARRY-7	PRADEEP THAKKAR, M/S ESSEN CONSTRUCTION	C/9 JAYADURGA NAGAR,BOMIKHAL ,P.S-LAXMINAGAR, BHUBANESWAR-751006,DISTRICT-KHURDA,ODISHA	4227 & DT.26.12.2021	4.046	LEASE DEED NOT DONE	LEASE DEED NOT DONE	LEASE DEED NOT DONE	NON-WORKING	NO	AT:- BALANDA, KHATA NO-504, PLOT NO-2473/P, KISSAM-PATIT LATITUDES OF 22°11'21.37"N TO 22°11'25.72"N AND LONGITUDES OF 84°45'34.90"E TO 84°45'24.18"E
I6	BALANDA STONE QUARRY-8	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	2.832	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	NON-WORKING	NO	AT:- BALANDA, KHATA NO-238, PLOT NO-2292/P, KISSAM-PATIT LATITUDE-22° 11'24.58" N TO 22° 11' 28.82" N AND LONGITUDE- 84° 45' 22.15" E TO 84° 45' 31.71" E

17	BALANDA STONE QUARRY-9	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	4.876	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	NON-WORKING	NO	AT:- BALANDA,KHATA NO-239(SABAK) PLOT NO-1543/P,1440/2266/P,1440/2269/P KHATA NO-504(HAL CHAKA) PLOT NO- 2008(P),1899(P),2009(P), KISSAM-PARBAT LATITUDE- 22° 11'08.91" N TO 22° 11' 15.43" N AND LONGITUDE- 84° 44' 42.19" E TO 84° 44' 54.49" E
18	BALANDA STONE QUARRY-10	PREM KUMAR SAHOO	MRS PUNAM D SAHU CIVIL TOWNSHIP, RAGHUNATHPALLI ROURKELA, DIST:- SUNDARGARH C.N-8280028899	NO.3350/DT D 22.04.2018	4.876	02.02.2022	01.02.2027	02.02.2022	WORKING	EC23B001 OR198341 , Dt. 3.1. 2023 & EC25C01 08OR5573 006N, Dt. 25.4.2025	AT:- BALANDA, KHATA NO-504, PLOT NO-1899/1, KISSAM-PARBAT,LAT-22° 11' 15.31" TO 22° 11' 29.54"N, LONG- 84° 44' 45.98" TO 84° 44' 53.41"E,
19	BALANDA STONE QUARRY-14	BIJAY KUMAR AGARWAL	PLOT NO-V/4,CIVIL TOWNSHIP,ROURKELA,P.S- RAGHU - NATHPALI, PIN-769004,DIST-SUNDARGARH	NO-4240/DATE D 29.11.2021	2.833	LEASE DEED NOT DONE	LEASE DEED NOT DONE	LEASE DEED NOT DONE	NON-WORKING	NO	AT:- BALANDA, KHATA NO-506, PLOT NO-2473/P, KISSAM-PATIT, LAT-22°11'28.44" TO 22°11'32.96", LONG-84°45'22.68" TO 84°45'34.26"
110	BALANDA STONE QUARRY-15	K.J.N PRUSTY	EL/76 BASANTI COLONY, ROURKELA-769012,P.S-UDITNAGAR,DIST-SUNDARGARH	382 & dt.04.02.2021	2.023	LEASE DEED NOT DONE	LEASE DEED NOT DONE	LEASE DEED NOT DONE	NON-WORKING	NO	AT:- BALANDA, KHATA NO-506 &504, PLOT NO-2473/P & 2010/P, KISSAM-PATIT&PARBATA,22°11'15.27"N TO 22°11'19.18"N AND LONGITUDES OF 84°45'20.76"E TO 84°45'26.51"E
111	BALANDA STONE QUARRY-16	K.J.N PRUSTY	EL/76 BASANTI COLONY, ROURKELA-769012 ,P.S- UEDITNAGAR DIST-SUNDARGARH	4506 & 14.12.2021	4.047	LEASE DEED NOT DONE	LEASE DEED NOT DONE	LEASE DEED NOT DONE	NON-WORKING	NO	AT:- BALANDA, KHATA NO-504, PLOT NO-1893/P&2010/P, KISSAM-PARBATA,LAT-22°11'15.36"N TO 22°11'22.09"N , LONG-84°45'05.18"E TO 84°45'12.45"E
NEW SOURCES											
112	DALAKUDAR STONE QUARRY-B	PROPOSED NEW SOURCE	PROPOSED NEW SOURCE	PROPOSED NEW SOURCE	0.991	PROPOSED NEW SOURCE	PROPOSED NEW SOURCE	PROPOSED NEW SOURCE	NON-WORKING	NO	AT-DALAKUDAR, KHATA NO-42, PLOT NO-243 & 244, KISSAM-BAHAL SADHARAN & GODA-II,AREA-2.45 ACRE,LAT-22°10'2.57"N TO 22°10'6.36"N , LONG-84°46'12.24"E TO 84°46'17.28"E
113	JALDA NEW STONE QUARRY	PROPOSED NEW SOURCE	PROPOSED NEW SOURCE	PROPOSED NEW SOURCE	1.21	PROPOSED NEW SOURCE	PROPOSED NEW SOURCE	PROPOSED NEW SOURCE	NON-WORKING	NO	AT:- JALDA, KHATA NO-121, PLOT NO-47/P KISSAM-PAHAD,AREA-3 ACRE

J.NAME OF THE TAHASIL:- LEPHRIPADA											
J1	RAIDIHI- B STONE QUARRY	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	3.156	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	NON-WORKING	NO	KHATA NO. 476/14,PLOT NO- 772 AC. 0.38,PLOT NO-773 AC. 0.45,PLOT NO-774 AC. 0.21,PLOT NO-776 AC . 0.29,PLOT NO- 820 AC. 0.08, KHATA NO. 476/15,PLOT NO- 866 AC. 0.28,PLOT NO- 867 AC. 0.13,PLOT NO- 868 AC. 0.15,KHATA NO. 476/21,PLOT NO- 858 AC. 0.79,PLOT NO-864 AC. 0.57 KHATA NO. 476/804,PLOT NO- 831 AC.1.57,KHATA NO. 476/800 PLOT NO-822 AC.1.24,PLOT NO- 824 AC.0.30,PLOT NO-828 AC.1.31,PLOT NO- 857 AC.0.05TOTAL AC. 7.80
K.NAME OF THE TAHASIL:- RAJGANGPUR											
K1	RAJGANGPUR-IV STONE QUARRY	VISHESH KAPOOR	SRI VISHESH KAPOOR, RESIDENT OF WARD NO,-12, SINDHIPADA,RAJGANGPUR	5842 & DT. 25.04.2022	1.882	LEASE DEED NOT DONE	LEASE DEED NOT DONE	LEASE DEED NOT DONE	NON WORKING	NO	MOUZA-RAJGANGPUR K NO. 379, P NO. 1063, KISSAM-PAHAD,LAT-22°10'38.78" TO 22°10'45.66" ,LONG- 84°35'27.31" TO 84°35'34.13"
K2	RAMLATA STONE QUARRY	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	3.237	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	NON-WORKING	NO	MOUZAL- RAMLATA, K NO. 37, P NO. 25, KISSAM- PAHAD, LAT-22°10'34.60" TO 22°10'41.85", LONG- 84°40'27.07" TO 84°40'38.25"
K3	KANSBAHAL STONE QUARRY	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	3.112	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	NON-WORKING	NO	MOUZA-KANSBAHAL, KHATA NO. 132, PLOT NO. 1914, KISSAM- DUNGURI, LAT- 22°11'51.02" TO 22°12'04.25", LONG- 84°40'44.52" TO 83°40'51.63"
K4	KUTUNIA STONE QUARRY	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	1.635	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	NON-WORKING	NO	MOUZA- KUTUNIA, KHATA NO-443 ,PLOT NO-2214, 2216,KISSAM-PATITA, LAT- 22°9'05.60" TO 22°9'11.70", LONG- 84°31'00.64" TO 84°31'59.87"
K5	RAIKAKACHHAR STONE QUARRY	JYOTIN KUMAR SAHOO	RESIDENT OF PLOT NO- 112/2526A,LANE- 3,CAVE ROAD,KHANDGIRI, BBSR	3654 & DT.18.04.2021	1.295	11-03-2022	10/03/2027	11-03-2022	WORKING	Y , SEIAA /2146 DT. 10/08/2021	MOUZA- RAIKAKACHHAR , KHATA NO : 155 , PLOT NO : 1131, KISAM- CHATTAN,LAT-22°9'16.00" TO 22°9'21.20, LONG-84°30'10.3" TO 84°30'19.1"
K6	JOURUMAL STONE QUARRY	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	2.023	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	NON WORKING	NO	MOUZA: JORUMAL, KHATA NO : 165, PLOT NO : 1133/1571/P , KISAM : DUNGRI, LAT-22°10'12.00" TO 22°10'16.94" , LONG-84°33'48.62" TO 84°33'53.70"

K7	SUNAKHANDI STONE QUARRY	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	4.047	BIDDER NOT FINALIZE D	BIDDER NOT FINALIZE D	BIDDER NOT FINALIZED	NON WORKING	NO	MOUZA: SUNAKHANDI KHATA NO:73 PLOT NO 928 KISSAM : DUNGURI,LAT- 22°07'10.06" TO 22°07'18.00",LONG- 84°30'21.03" TO 84°30'29.06"
K8	KUMARKELA STONE QUARRY-I	GURMIT SINGH	M/S GANGPUR RESOURCES PVT.LTD. SRI GURMIT SINGH AT- NANTARAM COLONY, RAJGANGPUR PS- RAJGANGPUR, DIST-SUNDARGARH	6382 & DT.17.09.20 20	2.832	29-01- 2021	28-01- 2026	29.01.2021	Non-WORKING	Y SEIAA/ 10122DT. 16.12.202 0	MOUZA: KUMARKELA KHATA NO:413 PLOT NO 3155/P KISSAM : PAHAD,LAT- 22°11'27.59" TO 22°11'34.41" ,LONG- 84°37'15.34" TO 84°37'21.55"
K9	JOURUMAL-II STONE QUARRY	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	2.817	BIDDER NOT FINALIZE D	BIDDER NOT FINALIZE D	BIDDER NOT FINALIZED	NON WORKING	NO	AT-JOURUMAL, KHATA NO-165 , PLOT NO-1253/P, KISSAM-DUNGURI, LAT- 22°10'04.37" TO 22°10'10.98" , LONG- 84°33'48.65" TO 84°33'52.92"
NEW SOURCES											
K10	BHAGATTOLA STONE QUARRY-A (NEW)	PROPOSED NEW SOURCE	PROPOSED NEW SOURCE	PROPOSED NEW SOURCE	5	PROPO SED NEW SOURC E	PROPO SED NEW SOURC E	PROPOSED NEW SOURCE	NON-WORKING	NO	AT-BHAGATTOLA, KHATA NO-169, PLOT NO-431/P, KISSAM-PAHADA,
L.NAME OF THE TAHASIL:- ROURKELA											
L1	TANGARPALI STONE QUARRY-I	RAMESH KUMAR HARICHAND AN	DEOGAON,PANPO SH,PO-ROURKELA- 4,PS- RAGHUNATHPALI,S UNDARGARH	7456 & DT.06.09.20 20	1.61	07-05- 2021	06-05- 2026	07-05-2021	WORKING	YES/698/S EIAA/26- 02-2021	VILLAGE-TANGARPALI, KHATA NO.82, PLOT NO431/P, KISSAM-PATITA, LAT- 22°11'26.14" TO 22°11'30.59" , LONG- 84°52'54.09" TO 84°52'56.27"
L2	JHARABAHAL STONE QUARRY I	B.P CONSTRUCTI ON	AT-FLAT NO-401, PLOT NO- 629,NAYAPALLI, KHORDHA, ODISHA,PIN-751012	3935 & dt. 28.11.2022	4.85	LEASE DEED NOT DONE	LEASE DEED NOT DONE	LEASE DEED NOT DONE	NON-WORKING	NO	VILLAGE- JHARABAHAL, KHATA NO.25, PLOT NO.280/P &281/P, KISSAM-PARBAT, LAT-22°11'31.04" TO 22°11'38.73" , LONG- 84°51'05.18" TO 84°51'14.00"
L3	JHARABAHAL STONE QUARRY II	BHARAT KUMAR	BLOCK-4, VAMSI APARTMENTS, PANTHULUGARI MEDA, GAJUWAKA, VISAKHAPATNAM, ANDHRA PRADESH	3937 & DT. 28.11.2022	2.14	LEASE DEED NOT DONE	LEASE DEED NOT DONE	LEASE DEED NOT DONE	NON-WORKING	NO	VILLAGE-JHARABAHAL, KHATA NO.25, PLOT NO-281/P, KISSAM- PARBAT, LAT-22°11'34.42" TO 22°11'39.99" , LONG- 84°51'14.99" TO 84°51'21.98"

M.NAME OF THE TAHASIL:- SUBDEGA											
M1	DAMKUDA STONE QUARRY-A	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	1.526	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	NON-WORKING	NO	AT-DAMKUDA, KHATA NO-195 PLOT NO-455,456 KISSAM-GO-2 KHATA NO-196 PLOT NO-454 KISSAM- NALA LATITUDE- 22° 15'41.36" N TO 22° 15' 45.16" N AND LONGITUDE- 84° 06' 35.14" E TO 84° 06' 41.11" E
O.NAME OF THE TAHASIL:- PANPOSH(KUARMUNDA)											
O1	DUMANGDIRI STONE QUARRY-III	STAR LIGHT INFRA PVT.LTD.	QUARTER NO-DL 158,BASANTI COLONY,PO-ROURKELA,PS-UDIT NAGAR,PIN-769012,SUNDARGARH	173 & DT.25.01.2022	20.364	Lease deed not executed	Lease deed not executed	Lease deed not executed	NON-WORKING	NO	MOUZA-DUMANGDIRI, KHATA NO-72, PLOT NO-262, KISSAM-PAHAD, LATITUDE- 22° 22' 08.86" N TO 22° 22' 27.05" N AND LONGITUDE- 84° 47' 58.65" E TO 84°48' 22.14" E
O2	DUMANGDIRI STONE QUARRY-IV	AKSHAY KUMAR PRAHARAJ	UTKAL NAGAR,AT-UH-100,SECTOR-22,ROURKELA-769007,DIST-SUNDARGARH	157 & DT.21.01.2022	13.456	19-03-2024	18-03-2029	19-03-2024	WORKING	SIA/OR/M IN/424054 /2023 01-06-2023	MOUZA-DUMANGDIRI, KHATA NO-72, PLOT NO-663, KISSAM-TUNGURI, LATITUDE- 22°21'39.69" TO 22°21'26.69" AND LONGITUDE- 84°48'43.88" TO 84°48'29.91"
O3	BESRAPADA - KUDABEDA STONE QUARRY	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	2.67 & 25.79	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	BIDDER NOT FINALIZED	NON-WORKING	NO	AT-BESRAPADA, KHATA NO-40, PLOT NO-16,17 KISSAM-PATHARBANI,AREA-2.67 2-KHATA NO-94, PLOT NO-579,428/1675,KISSAM-PATIT, AREA-25.79

NB: in the above table omitted Columns are,
Column- **09 & 10** Period of Mining lease (1st/2nd...renewal)-**NA**
Column-**13 Use (Captive/ Non Captive) - All Non Captive**
Column- **16** Method of Mining (Opencast/Underground) - **All Open cast**


Mining Officer-Cum-Comperent, Authority
Sundargarh


Deputy Director Mines
Rourkela

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

In the last three years, Sundargarh district has generated significant revenue through royalty collection from stone and road metal mining, categorized as minor minerals.

SL. NO.	NAME OF THE TAHASIL	NAME OF SOURCE	REVENUE COLLECTED FOR LAST THREE YEARS (IN RS)LAKH		
			2021-22	2022-23	2023-24
1	RAJGANGPUR	RAJGANGPUR, STONE QUARRY-IV	NIL	NIL	NIL
2	RAJGANGPUR	KUMARKELA, STONE QUARRY-I	440770	NIL	NIL
3	RAJGANGPUR	RAIKAKACHHAR STONE QUARRY	984548	NIL	NIL
4	RAJGANGPUR	RAJGANGPUR, STONE QUARRY-I	NIL	NIL	NIL
5	RAJGANGPUR	RAJGANGPUR, STONE QUARRY-III	NIL	NIL	NIL
6	RAJGANGPUR	KUTUNIA STONE QUARRY	471824	NIL	NIL
7	RAJGANGPUR	KANSBAHAL STONE QUARRY	958230	NIL	NIL
9	RAJGANGPUR	BHAGATTOLA STONE QUARRY	519230	259614	NIL
10	RAJGANGPUR	RAMLATA STONE QUARRY	1182499	1182493	NIL
11	RAJGANGPUR	JOURUMAL STONE QUARRY	475152	NIL	NIL
12	RAJGANGPUR	JOURUMAL -II STONE QUARRY	NIL	NIL	NIL
13	RAJGANGPUR	SUNAKHANDI STONE QUARRY	NIL	NIL	NIL
14	HEMGIR	SARBAHAL STONE QUARRY	NIL	3765910	3765910
15	HEMGIR	SANBALICHUAN STONE QUARRY-II	NIL	NIL	NIL
16	SUBDEGA	PERUABHADI STONE QUARRY-A	NIL	NIL	NIL
17	SUBDEGA	PERUABHADI STONE QUARRY-B	NIL	NIL	NIL
18	SUBDEGA	DAMKUDA STONE QUARRY-A	NIL	NIL	NIL
20	ROURKELA	TANGARPALI STONE QUARRY NO.I	873196	873196	873196
21	ROURKELA	JHARABAHAL STONE QUARRY-I	2161455	1077212	NIL
22	ROURKELA	JHARABAHAL STONE QUARRY-2	1050688	NIL	NIL
23	LEPHRIPARA	BADBANGA STONE QUARRY	1615414	1149417	1966922
24	LATHIKATA	ASURCHHAPAL STONE QUARRY-1	1677849	1677348	1677348
25	LATHIKATA	BALANDA STONE QUARRY-1	13699440	13502160	NIL
26	LATHIKATA	BALANDA STONE QUARRY-2	NIL	775000	23321144
27	LATHIKATA	BALANDA STONE QUARRY-3	NIL	2480274	27282828
28	LATHIKATA	BALANDA STONE QUARRY-7	NIL	NIL	NIL
29	LATHIKATA	BALANDA STONE QUARRY-8	13956930	13956930	NIL
30	LATHIKATA	BALANDA STONE QUARRY-9	47223000	NIL	NIL
31	LATHIKATA	BALANDA STONE QUARRY-10	NIL	1194970	3584751

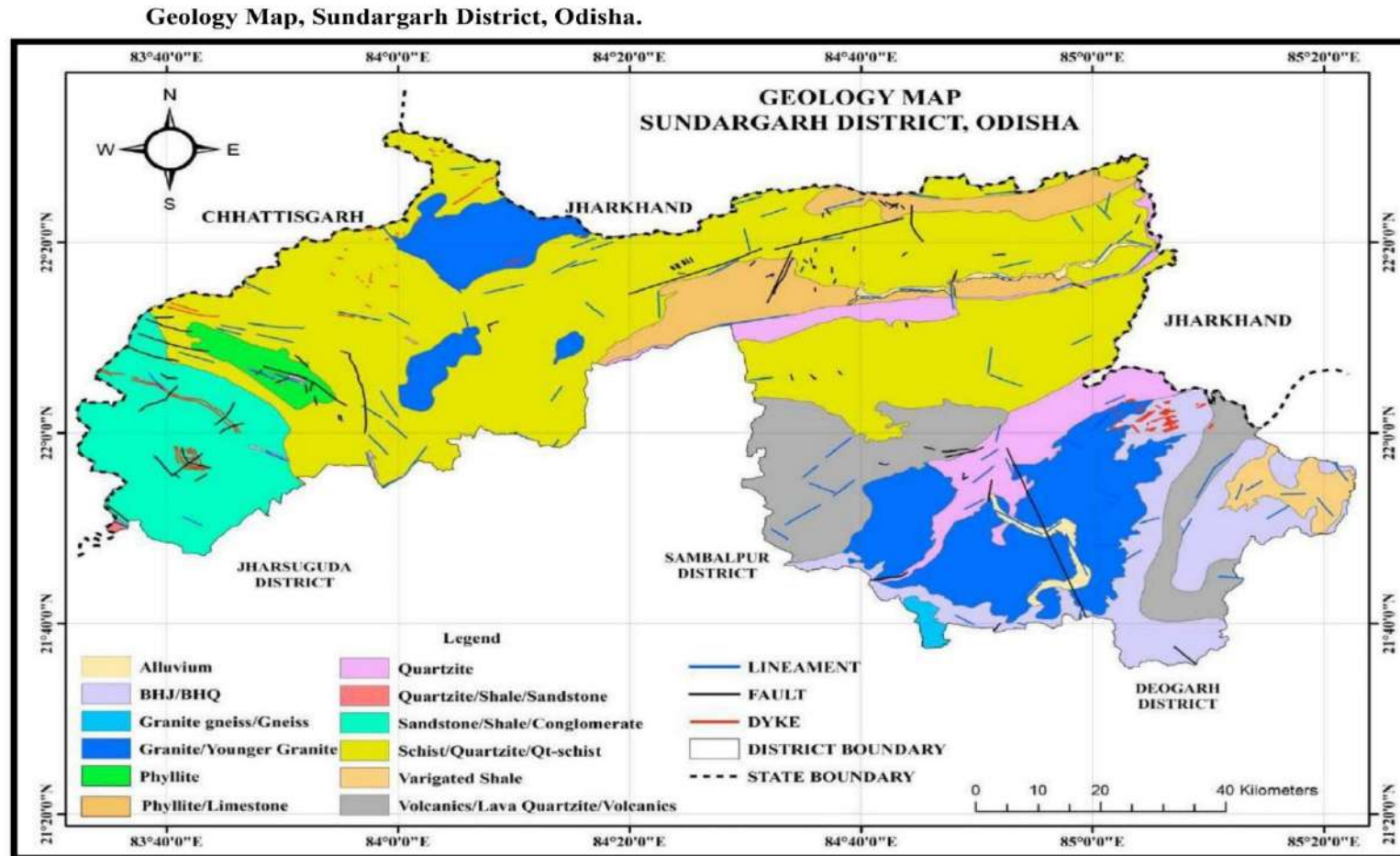
32	LATHIKATA	BALANDA STONE QUARRY-14	NIL	NIL	NIL
33	LATHIKATA	BALANDA STONE QUARRY-15	NIL	NIL	NIL
34	LATHIKATA	BALANDA STONE QUARRY-16	NIL	NIL	NIL
35	PANAPOSA (KUARAMUNDA)	BESRAPADA - KUDABEDA STONE QUARRY	30010	30010	17506
36	KOIDA	THELAKUDAR STONE QUARRY	1304456	1639674	NIL
37	KOIDA	BANKO STONE QUARRY	NIL	2535883	2535883
38	KOIDA	SIAN BAHAL STONE QUARRY	1979820	NIL	NIL
39	GURUNDIA	SANMUSHAPOSH STONE QUERRY-1	NIL	NIL	NIL
40	GURUNDIA	SANMUSHAPOSH STONE QUERRY-2	1075000	1290000	NIL
41	GURUNDIA	BHALUDUNGRI STONE QUARRY	NIL	NIL	NIL
42	GURUNDIA	KHANDAPAT STONE QUARRY	NIL	NIL	NIL
43	GURUNDIA	BADBHULTA STONE QUARRY	NIL	NIL	NIL
44	BONAI	CHANDRAPUR STONE QUARRY	682932	1189288	1575783
45	BISRA	KHATANGKUDAR	NIL	1334160	NIL
46	BISRA	MAHIBERNA	275310	275310	275310
47	BISRA	DUMERTA-1 STONE QUARRY	NIL	499433	499433
48	BISRA	KUDARBAHAL-3	247904	247904	247904
49	BALISANKARA	DEOBHUBANPUR STONE QUARRY	819500	614625	NIL,
50	KUARMUNDA	DUMANGDIRI STONE QUARRY-IV	NIL	NIL	217060.59
51	ROURKELA	TANGARPALI STONE QUARRY NO.I	NIL	NIL	873194.6
52	KOIDA	BANKO STONE QUARRY	NIL	NIL	2535883.2

11. DETAILS OF PRODUCTION OF MINOR MINERAL IN LAST THREE YEARS.

PRODUCTION OF STONE					
SL NO	NAME OF THE TAHASIL	NAME OF SOURCE	PRODUCTION FOR LAST THREE YEARS (IN CUM)		
			2021-22	2022-23	2023-24
1	KOIDA	BANKO STONE QUARRY	NIL	9024	9024
2	LATHIKATA	BALANDA STONE QUARRY-2	NIL	25000	124138
3	KUARMUNDA	DUMANGDIRI STONE QUARRY-IV	NIL	NIL	838
4	HEMGIR	SARBAHAL STONE QUARRY	NIL	NIL	19946
5	LATHIKATA	BALANDA STONE QUARRY-3	NIL	NIL	130775
6	LATHIKATA	ASURCHHAPAL STONE QUARRY-1	10047	10047	10047
7	ROURKELA	TANGARPALI STONE QUARRY NO.1	3321	3321	3321
8	KOIDA	THELAKUDAR 2 STONE QUARRY	NIL	NIL	NIL
9	KOIDA	SIAN BAHAL STONE QUARRY	9000	NIL	NIL
10	RAJGANGPUR	RAJGANGPUR, STONE QUARRY-IV	NIL	NIL	NIL
11	RAJGANGPUR	KUMARKELA, STONE QUARRY-I	1509.6	NIL	NIL
12	RAJGANGPUR	RAIKAKACHHAR STONE QUARRY	2250	NIL	NIL
13	BISRA	DUMERTA-I STONE QUARRY	NIL	3000	3000
14	BISRA	DUMERTA-II STONE QUARRY	NIL	NIL	NIL
15	BISRA	KUDARBAHAL -1 STONE QUARRY	NIL	NIL	NIL
16	BISRA	KUDARBAHAL-2 STONE QUARRY	NIL	NIL	NIL
17	BALISANKARA	DEOBHUBANPUR STONE QUARRY	5000	50000	NIL
18	ROURKELA	JHARABAHAL STONE QUARRY-I	NIL	NIL	NIL
19	ROURKELA	JHARABAHAL STONE QUARRY-II	NIL	NIL	NIL
20	LEPHRIPARA	BADBANGA STONE QUARRY	450	8008	8008
21	PANPOSH KUARAMUNDA	DUMANGDIRI STONE QUARRY-III	NIL	NIL	NIL
22	LATHIKATA	BALANDA STONE QUARRY-7	NIL	NIL	NIL
23	LATHIKATA	BALANDA STONE QUARRY-14	NIL	NIL	NIL
24	LATHIKATA	BALANDA STONE QUARRY-16	NIL	NIL	NIL
25	LATHIKATA	BALANDA STONE QUARRY-10	NIL	3010	12039
26	SUBDEGA	PERUABHADI STONE QUARRY-B	NIL	NIL	NIL

27	SUBDEGA	PERUABHADI STONE QUARRY-B	NIL	NIL	NIL
28	SUBDEGA	DAMKUDA STONE QUARRY-A	NIL	NIL	NIL
29	HEMGIR	SANBALICHUAN STONE QUARRY-II	NIL	NIL	NIL
30	LATHIKATA	BALANDA STONE QUARRY-1	38054	37506	NIL
31	LATHIKATA	BALANDA STONE QUARRY-8	60004	60004	NIL
32	LATHIKATA	BALANDA STONE QUARRY-9	6000	NIL	NIL
33	LATHIKATA	BALANDA STONE QUARRY-10	NIL	3010	12039
34	LATHIKATA	BALANDA STONE QUARRY-15	NIL	NIL	NIL
35	LAHUNIPADA	JAMIRDIHI STONE	NIL	NIL	NIL
36	LAHUNIPADA	DALEISARA STONE	NIL	NIL	NIL
37	KUARMUNDA	BESRAPADA - KUDABEDA STONE QUARRY	30010	30010	17506
38	KOIDA	THELAKUDAR STONE QUARRY	4000	4000	NIL
39	GURUNDIA	SANMUSHAPOSH STONE QUERRY-2	4000	5000	NIL
40	GURUNDIA	SANMUSHAPOSH STONE QUERRY-1	NIL	NIL	NIL
41	GURUNDIA	BHALUDUNGRI STONE QUARRY	NIL	NIL	NIL
42	GURUNDIA	KHANDAPAT STONE QUARRY	NIL	NIL	NIL
43	GURUNDIA	BADBHULTA STONE QUARRY	NIL	NIL	NIL
44	BONAI	CHANDRAPUR STONE QUARRY	NIL	NIL	NIL
45	BISRA	KHATANGKUDAR	NIL	3000	NIL
46	BISRA	KUDARBAHAL-3	3000	3000	3000
47	BISRA	MAHIBERNA	3000	3000	3000
48	RAJGANGPUR	BHAGATTOLA STONE QUARRY	2520	1393	NIL
49	RAJGANGPUR	KANSBAHAL STONE QUARRY	4050	NIL	NIL
50	RAJGANGPUR	RAMLATA STONE QUARRY	6998.4	6993.4	NIL
51	RAJGANGPUR	RAIKAKACHHAR STONE QUARRY	2250	NIL	NIL
52	RAJGANGPUR	KUTUNIA STONE QUARRY	1510.5	NIL	NIL
53	RAJGANGPUR	RAJGANGPUR, STONE QUARRY-1	NIL	NIL	NIL
54	RAJGANGPUR	RAJGANGPUR, STONE QUARRY-2	NIL	NIL	NIL
55	RAJGANGPUR	RAJGANGPUR, STONE QUARRY-3	NIL	NIL	NIL
56	RAJGANGPUR	SUNAKHANDI STONE QUARRY	NIL	NIL	NIL
57	RAJGANGPUR	JOURUMAL STONE QUARRY	6080	NIL	NIL

12. MINERAL MAP OF THE DISTRICT.



13. LIST OF LETTER OF INTENT (LOI) HOLDERS IN THE DISTRICT ALONG WITH ITS VALIDITY AS PER THE FOLLOWING FORMAT.

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	VALIDITY OF LOI	USE(CAPTIVE/NON-CAPTIVE)	LOCATION OF THE MINING LEASE (LATITUDE & LONGITUDE)
1	2	3	4	5	6	7	8	9
C2	KUDARBAHAL STONE QUARRY-2	KRISHNA ORAM	ROURKELA 9937678124	1824 & 02.09.2020	2.023	3 MONTHS TO 2YEARS	NON-CAPTIVE	MOUZA-KUDARBAHAL, KHATA NO-33,PLOT NO-232/362 ,KISSAM-PATITA,LAT-22°12'34.87" TO 22°12'38.62" ,LONG-84°57'10.67" TO 84°57'18.13"
C3	KUDARBAHAL STONE QURRY-1	KRISHNA ORAM	ROURKELA 9937678124	1823 & 02.09.2020	1.76	3 MONTHS TO 2YEARS	NON-CAPTIVE	MOUZA-,KHATA NO-33,36,PLOT NO-232/363/P & 233/P,KISSAM-PATITA & DUNGURI,LAT-22°12'26.67"N TO 22°12'30.71"N, LONG-84°57'5.14"E TO 84°57'11.96"E
L2	JHARABAHAL STONE QUARRY I	B.P CONSTRUCTION	AT-FLAT NO-401, PLOT NO-629,NAYAPALLI, KHORDHA, ODISHA,PIN-751012	3935 & dt. 28.11.2022	4.85	3 MONTHS TO 2YEARS	NON-CAPTIVE	VILLAGE- JHARABAHAL, KHATA NO.25, PLOT NO.280/P &281/P, KISSAM-PARBAT, LAT-22°11'31.04" TO 22°11'38.73", LONG- 84°51'05.18" TO 84°51'14.00"
L3	JHARABAHAL STONE QUARRY II	BHARAT KUMAR	BLOCK-4, VAMSI APARTMENTS, PANTHULUGARI MEDA, GAJUWAKA, VISAKHAPATNAM, ANDHRA PRADESH	3937 & DT. 28.11.2022	2.14	3 MONTHS TO 2YEARS	NON-CAPTIVE	VILLAGE-JHARABAHAL, KHATA NO.25, PLOT NO-281/P, KISSAM-PARBAT, LAT-22°11'34.42" TO 22°11'39.99" , LONG-84°51'14.99" TO 84°51'21.98"
15	BALANDA STONE QUARRY-7	PRADEEP THAKKAR, M/S ESSEN CONSTRUCTION	C/9 JAYADURGA NAGAR,BOMIKHAL,P.S-LAXMINAGAR,BHUBANESWAR-751006,DISTRICT-KHURDA,ODISHA	4227 & DT.26.12.2021	4.046	3 MONTHS TO 2YEARS	NON-CAPTIVE	AT:- BALANDA, KHATA NO-504, PLOT NO-2473/P, KISSAM-PATIT LATITUDES OF 22°11'21.37"N TO 22°11'25.72"N AND LONGITUDES OF 84°45'34.90"E TO 84°45'24.18"E
19	BALANDA STONE QUARRY-14	BIJAY KUMAR AGARWAL	PLOT NO-V/4,CIVIL TOWNSHIP,ROURKELA,P.S-RAGHUNATHPALI, PIN-769004,DIST-SUNDARGARH,ODISHA	NO-4240/DATED 29.11.2021	2.833	3 MONTHS TO 2YEARS	NON-CAPTIVE	AT:- BALANDA, KHATA NO-506, PLOT NO-2473/P, KISSAM-PATIT, LAT-22°11'28.44" TO 22°11'32.96", LONG-84°45'22.68" TO 84°45'34.26"

110	BALANDA STONE QUARRY-15	K.J.N PRUSTY	EL/76 BASANTI COLONY, ROURKELA-769012,P.S-UDITNAGAR,DIST-SUNDARGARH	382 & dt.04.02.2021	2.023	3 MONTHS TO 2YEARS	NON-CAPTIVE	AT:- BALANDA, KHATA NO-506 &504, PLOT NO-2473/P & 2010/P, KISSAM-PATIT&PARBATA,22°11'15.27"N TO 22°11'19.18"N AND LONGITUDES OF 84°45'20.76"E TO 84°45'26.51"E
111	BALANDA STONE QUARRY-16	K.J.N PRUSTY	EL/76 BASANTI COLONY, ROURKELA-769012,P.S-UDITNAGAR,DIST-SUNDARGARH	4506 & 14.12.2021	4.047	3 MONTHS TO 2YEARS	NON-CAPTIVE	AT:- BALANDA, KHATA NO-504, PLOT NO-1893/P&2010/P, KISSAM-PARBATA,LAT-22°11'15.36"N TO 22°11'22.09" N , LONG-84°45'05.18"E TO 84°45'12.45"E
K1	RAJGANGPUR-IV STONE QUARRY	VISHESH KAPOOR	SRI VISHESH KAPOOR, S/O. S/O.-SANJEEV KUMAR KAPOOR RESIDENT OF WARD NO,-12, SINDHIPADA,RAJGANGPUR	5842 & DT. 25.04.2022	1.882	3 MONTHS TO 2YEARS	NON-CAPTIVE	MOUZA-RAJGANGPUR K NO. 379, P NO. 1063, KISSAM-PAHAD,LAT-22°10'38.78" TO 22°10'45.66" ,LONG-84°35'27.31" TO 84°35'34.13"
O1	DUMANGDIRI STONE QUARRY-III	STAR LIGHT INFRA PVT.LTD.	QUARTER NO-DL 158,BASANTI COLONY,PO-ROURKELA,PS-UDIT NAGAR,PIN-769012,SUNDARGARH	173 & DT.25.01.2022	20.364	3 MONTHS TO 2YEARS	NON-CAPTIVE	MOUZA-DUMANGDIRI, KHATA NO-72, PLOT NO-262, KISSAM-PAHAD, LATITUDE- 22° 22' 08.86" N TO 22° 22' 27.05" N AND LONGITUDE- 84° 47' 58.65" E TO 84°48' 22.14" E

* The selected bidder shall be required to execute quarry lease in Form-N within three weeks from the date of intimation of his selection, if the approval of the mining plan and environment clearance has been obtained before auction, and in other cases, three months from the date of intimation, failing which, the intimation shall stand cancelled and the security deposit shall stand forfeited:

Provided that the Controlling Authority may, for genuine and sufficient reasons, extend the said period, if it is satisfied that the delay in execution of lease deed is not due to reasons attributable to the selected bidder (See **Rule-27(13) of OMMCR-2016**).

14. TOTAL MINERAL RESERVE AVAILABLE IN THE DISTRICT.

SL. NO.	NAME OF SOURCE WITH LOCATION	GEOLOGICAL RESERVE OF OPERATIONAL QUARRIES AS PER APPROVED MINING PLAN /MINERAL POTENTIAL OF NON OPERATIONAL & PROPOSED SOURCES AS PER FIELD OBSERVATION (IN M3)	MINEABLE RESERVE OF OPERATIONAL QUARRIES AS PER APPROVED MINING PLAN /MINERAL POTENTIAL OF NON OPERATIONAL & PROPOSED SOURCES AS PER FIELD OBSERVATION (IN M3)
A.Name of the Tahasil:- Balisankara			
A1	Deobhubanpur Stone Quarry AT- Deobhubanpur, Khata No.- 351 Plot No.- 3448, 3449, 3450, KISSAM- Patita, Latitude- 22°17'10.31" to 22°17'15.26" , Longitude – 83°54'15.45" to 83°54'19.77"	3237	1390
NEW SOURCES			
A2	Deobhubanpur Stone Quarry (NEW) AT- DEOBHUBANPUR, KHATA NO-333/278, PLOT NO-3465,3466 & 3468, KISSAM-GODA-II	205100	123060
C.Name of the Tahasil:- BISRA			
C1	Kudarbahal Stone Quarry-3 MOUZA- KUDARBAHAL, KHATA NO-36, PLOT NO-233/P, KISSAM-TUMGURI, LAT-22°12'23.94"N to 22°12'27.05"N , LONG-84°57'4.56"E to 84°57'10.11"E	202021.2	80970.3
C2	Kudarbahal Stone Quarry-2 MOUZA- KUDARBAHAL, KHATA NO-33,PLOT NO-232/362 ,KISSAM-Patita,LAT-22°12'34.87" to 22°12'38.62" ,LONG-84°57'10.67" to 84°57'18.13"	189293	102419
C3	Kudarbahal Stone Quarry-1 MOUZA-,KHATA NO-33,36,PLOT NO-232/363/P & 233/P,KISSAM-Patita & Dunguri,LAT-22°12'26.67"N to 22°12'30.71"N, LONG-84°57'5.14"E to 84°57'11.96"E	108540	73350
C4	Dumerta-1 Stone Quarry Mouza- DUMERTA,Khata No-114 Plot No-366/p,AREA- 1.5AC, Kissam-patit Plot no-374/p, AREA- 4.5AC, KISSAM-Tunguri Latitude- 22° 12'43.44" N to 22° 12' 35.72" N and Longitude- 84° 55' 16.30" E to 84° 55' 24.63" E	388480	233088
C5	Mahiberna Stone Quarry Mouza- MAHIBERNA,Khata No-28 Plot No 121/181 Kissam-Goda-II Latitude- 22° 18'19.9" N to 22° 18' 22.6" N and Longitude- 85° 06' 02.0" E to 85° 06' 06.1" E	80767.2	44683.2
C6	Birker Stone Quarry Mouza-BIRKERA, Khata No-79, Plot No 672/1176, Kissam-Patit, LAT- , LONG-	339780	203868
NEW SOURCES			
C7	MAHIPANI STONE QUARRY-1(NEW) AT- MAHIPANI, KHATA NO-142, PLOT NO-634, KISSAM-GRAMYA JUNGLE	162000	97200
C8	MAHIPANI STONE QUARRY-2(NEW) AT- MAHIPANI, KHATA NO-142, PLOT NO-78, KISSAM-GOCHAR	60600	36360

D.Name of the Tahasil:- BONAI			
D1	CHANDRAPUR STONE QUARRY Mouza- Chandrapur, Khata No- 171, Plot No.- 478/P, Latitude- 21°43'46.40" to 22°43'51.85" Longitude- 84°49'46.93" to 84°49'36.01"	566164	317890
E.Name of the Tahasil:- GURUNDIA			
E1	San-Musaposh Stone Quarry- 1 Mouza- San-Musaposh, Khata No. 4, Plot No. 2/p, KISSAM-Pahad	1581243.7	1155860.3
E2	San-Musaposh Stone Quarry-2 Mouza- San-Musaposh, Khata No. 4, Plot No. 3/P, KISSAM-Pahad	1391761	753102
F.Name of the Tahasil:- HEMGIRI			
F1	Sarbahal Stone Quarry MOUZA-Sarbahal, Khata No. 49/134, Plot No. 1132,1145,1143,1140,1139,, 1138,1137,1136 & 1135, KISSAM-MALA SADHARANA,GODA - II, Longitude- 83°48'29.33" to 83°48'36.49", Latitude -21°57'29.66" to 21°57'33.85"	24864	14691
NEW SOURCES			
F2	Sanbalichuan Stone Quarry MOUZA-Balichuanbada & San Balichuan, Khata No. 84/158 & 38/60, Plot No.978,121,120,119/355,119/358 , Kisam-Goda-2 & MA.SA ,Latitude- 22° 3'18.27"N to 22° 3'23.13"N" and Longitude- 83°50'28.24"E to 83°50'33.39"E	588581.3	353148.78
F3	SARBAHAL-A STONE QUARRY(NEW) AT-SARBAHAL, KHATA NO-50, PLOT NO-1062,1087,1144,1146, KISSAM-JUNGLE, KHATA NO-52, PLOT NO-1066,1071,1078,1077, KISSAM-JUNGLE & MALA SADHARANA	761700	457020
G.Name of the Tahasil:- KOIRA			
G1	Sianbahal Stone Quarry MOUZA-SIANBAHAL, Khata No.21 (AAA), Plot No. 30, KISSAM-DUNGURI ,LaT-22°01'06.77" to 22°01'13.18", LONG- 85°01'03.21" to 85°01'20.48"	470263.3	223152.2
G2	Thelakudar-I Stone Quarry MOUZA-THELAKUDAR, Khata No. 26, Plot No.126/P La-210 59 '04.93"N to 210 58' 57.58"N Lo- 840 58' 06.40"E to 840 57' 58.70"E	1052220	631332
G3	Banko Stone Quarry MOUZA-BANKO,Khata No. 47 (AAA), Plot No. 342/P, Kissam-PATHAR CHATAN, LaT-22°03'58.43" to 22°03'50.56" LoNG- 85°05'23.92" to 85°05'11.92"	552118.2	271697.2
G4	Thelakudar-II Stone Quarry MOUZA-THELAKUDAR, KHATA NO-26, Plot No.126/2, KISSAM- Pahad, LAT- 21°59'03.89" to 21°59'08.52" LONG-84°57'56.66" to 84°58'01.48"	241800	145080
I.Name of the Tahasil:- LATHIKATA			
I1	Asurchhapal Stone Quarry-1 At:- Asurchhapal, Khata No-112, Plot No-385/P, Kissam-Pahad,LAT- 22°10'13.88" to 22°10'17.02",LONG- 84°52'33.98" to 84°52'36.96",	335077.2	62877.6
I2	Balanda Stone Quarry-1 At:- Balanda, Khata No-504, Plot No-1897/P, Kissam-Parbat Latitude- 22° 11'25.63" N to 22° 11' 33.07" N and Longitude- 84° 45' 01.18" E to 84° 45' 09.08" E	693982	361417

13	Balanda Stone Quarry-2 At:- Balanda, Khata No-504, Plot No-1897/P, Kissam-Parbat Latitude- 22°11'25.03"N to 22°11'31.41"N and Longitude- 84°45'02.86"E to 84°45'11.64"E	1624931.4	878724.9
14	Balanda Stone Quarry-3 At:- Balanda, Khata No-504, Plot No-1893/P, Kissam-Pahad Latitude- 22°11'26.70" to 22°11'31.97" and Longitude- 84°45'12.70" to 84°45'23.53"	1196087.6	484231.8
15	Balanda Stone Quarry-7 At:- Balanda, Khata No-504, Plot No-2473/P, Kissam-Patit latitudes of 22°11'21.37"N to 22°11'25.72"N and longitudes of 84°45'34.90"E to 84°45'24.18"E	1265556.1	455197.7
16	Balanda Stone Quarry-8 At:- Balanda, Khata No-238, Plot No-2292/P, Kissam-Patit Latitude- 22° 11'24.58" N to 22° 11' 28.82" N and Longitude- 84° 45' 22.15" E to 84° 45' 31.71" E	622233	302302
17	Balanda Stone Quarry-9 At:- Balanda, Khata No-239(sabak) Plot No-1543/P,1440/2266/P,1440/2269/P Khata No-504(Hal chaka) Plot No-2008(P),1899(P),2009(P), Kissam-Parbat Latitude- 22° 11'08.91" N to 22° 11' 15.43" N and Longitude- 84° 44' 42.19" E to 84° 44' 54.49" E	1374642.3	570660.7
18	Balanda Stone Quarry-10 At:- Balanda, Khata No-504, Plot No-1899/1, Kissam-Parbat, LAT-22° 11' 15.31" TO 22° 11' 29.54"N, LONG-84° 44' 45.98" TO 84° 44' 53.41"E,	1462800	877680
19	Balanda Stone Quarry-14 At:- Balanda, Khata No-506, Plot No-2473/P, Kissam-Patit, LAT-22°11'28.44" to 22°11'32.96", LONG-84°45'22.68" to 84°45'34.26"	1102430.2	295371.8
110	Balanda Stone Quarry-15 At:- Balanda, Khata No-506 &504, Plot No-2473/P & 2010/P, Kissam-Patit&Parbata,22°11'15.27"N to 22°11'19.18"N and longitudes of 84°45'20.76"E to 84°45'26.51"E	323680	194208
111	Balanda Stone Quarry-16 At:- Balanda, Khata No-504, Plot No-1893/P&2010/P, Kissam-Parbata, LAT-22°11'15.36"N to 22°11'22.09"N , LONG-84°45'05.18"E to 84°45'12.45"E	1545498.2	75754.1
NEW SOURCES			
112	DALAKUDAR STONE QUARRY(NEW) AT-DALAKUDAR, KHATA NO-42, PLOT NO-243 & 244, KISSAM-BAHAL SADHARAN & GODA-II	297300	178380
113	Jalda New Stone Quarry At:- Jalda, Khata No-121, Plot No-47/P Kissam-Pahad, Area-3 Acre	423500	254100
J.Name of the Tahasil:- LEPHRIPADA			
J1	Raidihi- B Stone Quarry Khata No. 476/14, Plot No- 772 Ac. 0.38, Plot No-773 Ac. 0.45, Plot No-774 Ac. 0.21, Plot No-776 Ac . 0.29, Plot No- 820 Ac. 0.08, Khata No. 476/15, Plot No- 866 Ac. 0.28, Plot No- 867 Ac. 0.13, Plot No-868 Ac. 0.15, Khata No. 476/21, Plot No- 858 Ac. 0.79, Plot No-864 Ac. 0.57 Khata No. 476/804, Plot No- 831 Ac.1.57, Khata no. 476/800 Plot No-822 Ac.1.24, Plot No- 824 Ac.0.30, Plot No-828 Ac.1.31, Plot No- 857 Ac.0.05 Total Ac. 7.80	189360	113616

K.Name of the Tahasil:- Rajgangpur			
K1	Rajgangpur-IV Stone Quarry Mouza-Rajgangpur K No. 379, P No. 1063, KISSAM- Pahad,LAT- 22°10'38.78" to 22°10'45.66" ,LONG- 84°35'27.31" to 84°35'34.13"	259752.8	27662.1
K2	Ramlata Stone Quarry Mouza- Ramlata, K No. 37, P No. 25, KISSAM- Pahad, LAT-22°10'34.60" to 22°10'41.85", LONG- 84°40'27.07" to 84°40'38.25"	380934	173123.1
K3	Kansbahal Stone Quarry Mouza-Kansbahal, Khata No. 132, Plot No. 1914, KISSAM- Dunguri, LAT- 22°11'51.02" to 22°12'04.25", LONG- 84°40'44.52" to 83°40'51.63"	175744.8	126900
K4	Kutunia Stone Quarry Mouza- Kutunia, Khata No-443 ,Plot No-2214, 2216,Kissam-PATITA, LAT- 22°9'05.60" to 22°9'11.70", LONG-84°31'00.64" to 84°31'59.87"	183376.6	90003
K5	Raikakachhar Stone Quarry Mouza- Raikakachhar , Khata no : 155 , Plot No : 1131, Kisam- Chattan,LAT-22°9'16.00" to 22°9'21.20, LONG-84°30'10.3" to 84°30'19.1"	65515	54140
K6	Jourumal Stone Quarry Mouza: Jorumal, Khata No : 165, Plot No : 1133/1571/P , Kisam : Dungri, LAT-22°10'12.00" to 22°10'16.94" , LONG- 84°33'48.62" to 84°33'53.70"	378297.6	232543.9
K7	Sunakhandi Stone Quarry Mouza: Sunakhandi Khata No:73 Plot No 928 Kisam : Dunguri,LAT- 22°07'10.06" to 22°07'18.00",LONG-84°30'21.03" to 84°30'29.06"	540977.4	411528
K8	Kumarkela Stone Quarry-I Mouza: Kumarkela Khata No:413 Plot No 3155/p Kisam : Pahad,LAT-22°11'27.59" to 22°11'34.41" ,LONG- 84°37'15.34" to 84°37'21.55"	737874.5	439789.2
K9	Jourumal-II Stone Quarry AT-JOURUMAL, Khata No-165 , Plot No-1253/P, Kissam-DUNGURI, lat- 22°10'04.37" to 22°10'10.98" , long-84°33'48.65" to 84°33'52.92"	699171.5	243912.5
NEW SOURCES			
K10	Bhagattola Stone Quarry-A (NEW) AT- BHAGATTOLA, KHATA NO-169, PLOT NO-431/P, KISSAM-PAHADA	2500000	1500000
L.Name of the Tahasil:- Rourkela			
L1	Tangarpali Stone Quarry-I Village-Tangarpali, Khata No.82, Plot No431/p, Kissam-Patita, Lat- 22°11'26.14" to 22°11'30.59" , Long-84°52'54.09" to 84°52'56.27"	301549	51828.2
L2	Jharabahal Stone Quarry I Village- Jharabahal, Khata No.25, Plot No.280/p &281/p, Kissam-Parbat, Lat-22°11'31.04" to 22°11'38.73" , Long- 84°51'05.18" to 84°51'14.00"	914856.3	299051.7
L3	Jharabahal Stone Quarry II Village- Jharabahal, Khata No.25, Plot No-281/p, Kissam-Parbat, Lat-22°11'34.42" to 22°11'39.99" , Long- 84°51'14.99" to 84°51'21.98"	339774.1	33627.9
M.Name of the Tahasil:- SUBDEGA			
M1	Damkuda Stone Quarry-A AT-DAMKUDA, Khata no-195 Plot no-455,456 Kisam-Go-2 Khata no-196 Plot no-454 Kisam- Nala Latitude- 22° 15'41.36" N to 22° 15' 45.16" N and Longitude- 84° 06' 35.14" E to 84° 06' 41.11" E	282862	384904

O.Name of the Tahasil:- PANPOSH(KUARMUNDA)			
O1	DUMANGDIRI STONE QUARRY-III MOUZA-DUMANGDIRI, Khata No-72, Plot No-262, KISSAM-PAHAD, Latitude- 22° 22' 08.86" N to 22° 22' 27.05" N and Longitude- 84° 47' 58.65" E to 84°48' 22.14" E	7446576.9	3956682.6
O2	DUMANGDIRI STONE QUARRY-IV MOUZA-DUMANGDIRI, Khata No-72, Plot No-663, KISSAM-TUNGURI, Latitude- 22°21'39.69" to 22°21'26.69" and Longitude- 84°48'43.88" to 84°48'29.91"	5859215.3	3619718.5
O3	BESRAPADA - KUDABEDA STONE QUARRY AT-BESRAPADA, Khata No-40, Plot No-16,17 Kissam-Patharbani,Area-2.67 2-Khata No-94, Plot No-579,428/1675,Kissam-Patit, Area-25.79	8538000	5122800

N.B.-Reserve potential mentioned in the above table may vary with the mining plan as the assessment is done as per the prelim field observation, hence always approved mining plan reserve shall be considered as final reserve.

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

We know Sundargarh district is part of Gangpur Group & Iron ore Group hence the area is rich in hilly terrains composed of various sedimentary, meta-sedimentary, Igneous & meta-igneous group of rocks like Granite, Granite gneiss, Pyroxenite, limestone, Dolomite, BIF i.e. BHJ & BHQ etc. the colour & grain size of the rocks exposures within the district varies accordingly.

Granite & Granite Gneiss rocks are normally composed of mainly feldspar, quartz, and mild amphibole, pyroxene, olivine, biotite etc all these physical properties signify its good cementing property and higher resistance which indicate its suitability for construction stone as the source areas have numerous fractures & joints. A very few areas are there which are devoid of fractures & joints, those can be suggested as decorative stone.

16. USE OF MINERAL.

Stone Aggregates represent about 80% to 98% of quarry output, most of which is used in road construction, maintenance and repair. Much of this goes to the production of road metal, to provide a sturdy base for roads. Only the harder more resilient rocks can be employed for most road surfacing requirements. Apart from road usage, substantial amounts are mixed (coarse gravel sized stone with finer stone particles or sand) with cement and water to make concrete. This may be carried out at the quarry or materials supplied to truck-mixers (for mixing en route) or to remote plants. An important local 'downstream' industry is that of concrete product (blocks, pipes, kerbs, pavers, etc). Not only do these produce 'added value' to the raw aggregate, they often make use of 'fines' which are a by-product of general aggregate processing, and without this market would often have to be dumped.

17. DEMAND AND SUPPLY OF THE MINERAL IN THE LAST THREE YEARS.

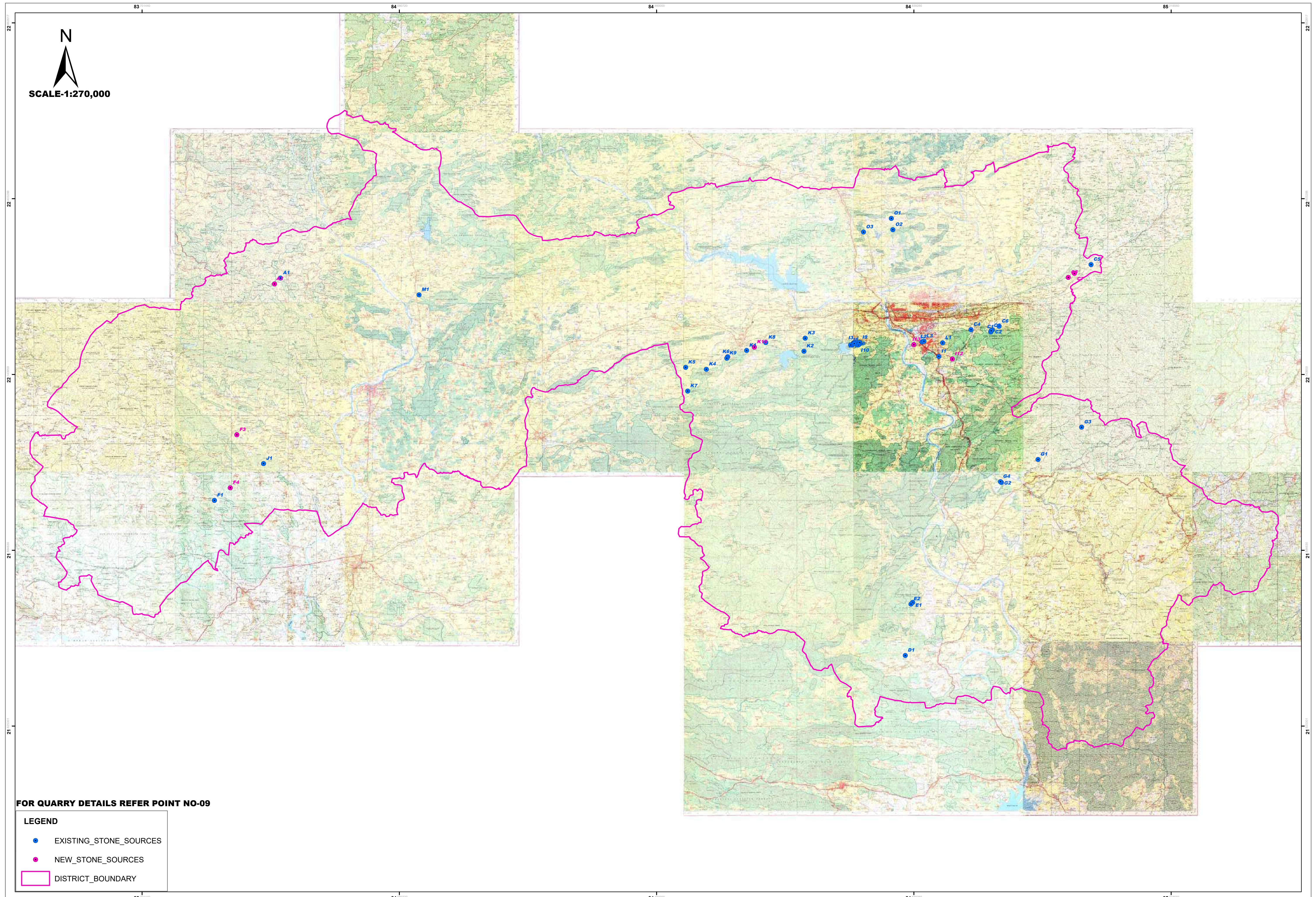
As per the data provided by the Tehsils the production or supply of the stone/road metal in the district is as follows,

PRODUCTION OF STONE					
SL NO	NAME OF THE TAHASIL	NAME OF SOURCE	PRODUCTION FOR LAST THREE YEARS (IN CUM)		
			2021-22	2022-23	2023-24
1	KOIDA	BANKO STONE QUARRY	NIL	9024	9024
2	LATHIKATA	BALANDA STONE QUARRY-2	NIL	25000	124138
3	KUARMUNDA	DUMANGDIRI STONE QUARRY-IV	NIL	NIL	838
4	HEMGIR	SARBAHAL STONE QUARRY	NIL	NIL	19946
5	LATHIKATA	BALANDA STONE QUARRY-3	NIL	NIL	130775
6	LATHIKATA	ASURCHHAPAL STONE QUARRY-1	10047	10047	10047
7	ROURKELA	TANGARPALI STONE QUARRY NO.I	3321	3321	3321
8	KOIDA	THELAKUDAR 2 STONE QUARRY	NIL	NIL	NIL
9	KOIDA	SIAN BAHAL STONE QUARRY	9000	NIL	NIL
10	RAJGANGPUR	RAJGANGPUR, STONE QUARRY-IV	NIL	NIL	NIL
11	RAJGANGPUR	KUMARKELA, STONE QUARRY-I	1509.6	NIL	NIL
12	RAJGANGPUR	RAIKAKACHHAR STONE QUARRY	2250	NIL	NIL
13	BISRA	DUMERTA-I STONE QUARRY	NIL	3000	3000
14	BISRA	DUMERTA-II STONE QUARRY	NIL	NIL	NIL
15	BISRA	KUDARBAHAL -1 STONE QUARRY	NIL	NIL	NIL
16	BISRA	KUDARBAHAL-2 STONE QUARRY	NIL	NIL	NIL
17	BALISANKARA	DEOBHUBANPUR STONE QUARRY	5000	50000	NIL
18	ROURKELA	JHARABAHAL STONE QUARRY-I	NIL	NIL	NIL
19	ROURKELA	JHARABAHAL STONE QUARRY-II	NIL	NIL	NIL
20	LEPHRIPARA	BADBANGA STONE QUARRY	450	8008	8008
21	PANPOSH KUARAMUNDA	DUMANGDIRI STONE QUARRY-III	NIL	NIL	NIL
22	LATHIKATA	BALANDA STONE QUARRY-7	NIL	NIL	NIL

23	LATHIKATA	BALANDA STONE QUARRY-14	NIL	NIL	NIL
24	LATHIKATA	BALANDA STONE QUARRY-16	NIL	NIL	NIL
25	LATHIKATA	BALANDA STONE QUARRY-10	NIL	3010	12039
26	SUBDEGA	PERUABHADI STONE QUARRY-B	NIL	NIL	NIL
27	SUBDEGA	PERUABHADI STONE QUARRY-B	NIL	NIL	NIL
28	SUBDEGA	DAMKUDA STONE QUARRY-A	NIL	NIL	NIL
29	HEMGIR	SANBALICHUAN STONE QUARRY-II	NIL	NIL	NIL
30	LATHIKATA	BALANDA STONE QUARRY-1	38054	37506	NIL
31	LATHIKATA	BALANDA STONE QUARRY-8	60004	60004	NIL
32	LATHIKATA	BALANDA STONE QUARRY-9	6000	NIL	NIL
33	LATHIKATA	BALANDA STONE QUARRY-10	NIL	3010	12039
34	LATHIKATA	BALANDA STONE QUARRY-15	NIL	NIL	NIL
35	LAHUNIPADA	JAMIRDIHI STONE	NIL	NIL	NIL
36	LAHUNIPADA	DALEISARA STONE	NIL	NIL	NIL
37	KUARMUNDA	BESRAPADA - KUDABEDA STONE QUARRY	30010	30010	17506
38	KOIDA	THELAKUDAR STONE QUARRY	4000	4000	NIL
39	GURUNDIA	SANMUSHAPOSH STONE QUARRY-2	4000	5000	NIL
40	GURUNDIA	SANMUSHAPOSH STONE QUARRY-1	NIL	NIL	NIL
41	GURUNDIA	BHALUDUNGRI STONE QUARRY	NIL	NIL	NIL
42	GURUNDIA	KHANDAPAT STONE QUARRY	NIL	NIL	NIL
43	GURUNDIA	BADBHULTA STONE QUARRY	NIL	NIL	NIL
44	BONAI	CHANDRAPUR STONE QUARRY	NIL	NIL	NIL
45	BISRA	KHATANGKUDAR	NIL	3000	NIL
46	BISRA	KUDARBAHAL-3	3000	3000	3000
47	BISRA	MAHIBERNA	3000	3000	3000
48	RAJGANGPUR	BHAGATTOLA STONE QUARRY	2520	1393	NIL
49	RAJGANGPUR	KANSBAHAL STONE QUARRY	4050	NIL	NIL
50	RAJGANGPUR	RAMLATA STONE QUARRY	6998.4	6993.4	NIL
51	RAJGANGPUR	RAIKAKACHHAR STONE QUARRY	2250	NIL	NIL
52	RAJGANGPUR	KUTUNIA STONE QUARRY	1510.5	NIL	NIL
53	RAJGANGPUR	RAJGANGPUR, STONE QUARRY-1	NIL	NIL	NIL
54	RAJGANGPUR	RAJGANGPUR, STONE QUARRY-2	NIL	NIL	NIL
55	RAJGANGPUR	RAJGANGPUR, STONE QUARRY-3	NIL	NIL	NIL
56	RAJGANGPUR	SUNAKHANDI STONE QUARRY	NIL	NIL	NIL
57	RAJGANGPUR	JOURUMAL STONE QUARRY	6080	NIL	NIL

Out of the total production about 80%-90% of the supply is utilized in government works, while rest is consumed by the private purposes. The certainty of the exact demand in the district depends upon various Govt projects & schemes etc, hence quite not possible to quantify the exact demand. Certainly there is an unavoidable gap between the demand and supply of road metal/stone in the district, hence to balance the demand-supply gap a few number of stone quarries have been proposed in certain areas.

18. MINING LEASES (STONE) MARKED ON THE DISTRICT TOPO-MAP OF SUNDARGARH



FOR QUARRY DETAILS REFER POINT NO-09

LEGEND

- EXISTING_STONE_SOURCES
- NEW_STONE_SOURCES
- ▭ DISTRICT_BOUNDARY

Neebi
Deputy Director Mines
Rourkela

Shahin
COLLECTOR
SUNDARGARH

MINING LEASES (STONE) MARKED ON THE DISTRICT SATELLITE-MAP OF SUNDARGARH



SCALE-1:270,000

FOR QUARRY DETAILS REFER POINT NO-09

LEGEND

- EXISTING_STONE_SOURCES
- NEW_STONE_SOURCES
- DISTRICT_BOUNDARY

Source: Sat, Aerial, Topographic, and the 600 Year Community

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

Quarries existing within 500m radius are considered as cluster of Mining Leases as per the MoEF guide lines.

SL NO.	NAME OF TAHASIL	NAME OF CLUSTER	DETAILS OF QUARRY LEASE AREA	NUMBER OF MINING LEASE
1	BISRA	KUDARBAHAL CLUSTER	KUDARBAHAL STONE QUARRY-3 MOUZA-KUDARBAHAL, KHATA NO-36, PLOT NO-233/P, KISSAM-TUMGURI, LAT-22°12'23.94"N TO 22°12'27.05"N , LONG-84°57'4.56"E TO 84°57'10.11"E , AREA-1.214 HA	3
			KUDARBAHAL STONE QUARRY-2 MOUZA-KUDARBAHAL, KHATA NO-33,PLOT NO-232/362 ,KISSAM-PATITA,LAT-22°12'34.87" TO 22°12'38.62" ,LONG-84°57'10.67" TO 84°57'18.13" , AREA-2.023HA	
			KUDARBAHAL STONE QUARRY-1 MOUZA-,KHATA NO-33,36,PLOT NO-232/363/P & 233/P,KISSAM-PATITA & DUNGURI,LAT-22°12'26.67"N TO 22°12'30.71"N, LONG-84°57'5.14"E TO 84°57'11.96"E, AREA-1.76HA	
2	GURUNDIA	SAN-MUSAPOSH CLUSTER	SAN-MUSAPOSH STONE QUARRY- 1 MOUZA- SAN-MUSAPOSH, KHATA NO. 4, PLOT NO. 2/P, KISSAM- PAHAD, AREA-2.428HA	2
			SAN-MUSAPOSH STONE QUARRY-2 MOUZA- SAN-MUSAPOSH, KHATA NO. 4, PLOT NO. 3/P, KISSAM- PAHAD , AREA-2.428HA	
3	HEMGIRI	SARBAHAL CLUSTER	SARBAHAL STONE QUARRY MOUZA-SARBAHAL, KHATA NO. 49/134, PLOT NO. 1132,1145,1143,1140,1139,, 1138,1137,1136 & 1135, KISSAM-MALA SADHARANA,GODA - II, LONGITUDE- 83°48'29.33" TO 83°48'36.49", LATITUDE -21°57'29.66" TO 21°57'33.85", AREA-1.656HA	2
			SARBAHAL-A STONE QUARRY(NEW) AT-SARBAHAL, KHATA NO-50, PLOT NO-1062,1087,1144,1146, KISSAM-JUNGLE, KHATA NO-52, PLOT NO-1066,1071,1078,1077, KISSAM-JUNGLE & MALA SADHARANA, AREA-12.695HA	
4	KOIRA	THELAKUDAR CLUSTER	THELAKUDAR-I STONE QUARRY MOUZA-THELAKUDAR, KHATA NO. 26, PLOT NO.126/P LA-210 59 '04.93"N TO 210 58' 57.58"N LO- 840 58 '06.40"E TO 840 57' 58.70"E, AREA-4.047HA	2
			THELAKUDAR-II STONE QUARRY MOUZA-THELAKUDAR, KHATA NO-26, PLOT NO.126/2, KISSAM- PAHAD, LAT- 21°59'03.89" TO 21°59'08.52" LONG-84°57'56.66" TO 84°58'01.48" , AREA-0.93HA	
5	LATHIKATA	BALANDA CLUSTER	BALANDA STONE QUARRY-1 AT:- BALANDA, KHATA NO-504, PLOT NO-1897/P, KISSAM-PARBAT LATITUDE- 22° 11'25.63" N TO 22° 11' 33.07" N AND LONGITUDE- 84° 45' 01.18" E TO 84° 45' 09.08" E, AREA-4.249HA	10
			BALANDA STONE QUARRY-2 AT:- BALANDA, KHATA NO-504, PLOT NO-1897/P, KISSAM-PARBAT LATITUDE- 22°11' 25.03''N TO 22°11'31.41''N AND LONGITUDE- 84°45'02.86''E TO 84°45' 11.64''E, AREA-4.876HA	
			BALANDA STONE QUARRY-3 AT:- BALANDA, KHATA NO-504, PLOT NO-1893/P, KISSAM-PAHAD LATITUDE- 22°11'26.70" TO 22°11'31.97" AND LONGITUDE- 84°45'12.70" TO 84°45'23.53", AREA-4.046HA	
			BALANDA STONE QUARRY-7 AT:- BALANDA, KHATA NO-504, PLOT NO-2473/P, KISSAM-PATIT LATITUDES OF 22°11'21.37"N TO 22°11'25.72"N AND LONGITUDES OF 84°45'34.90"E TO 84°45'24.18"E, AREA-4.046HA	

			BALANDA STONE QUARRY-8 AT:- BALANDA, KHATA NO-238, PLOT NO-2292/P, KISSAM-PATIT LATITUDE- 22° 11'24.58" N TO 22° 11' 28.82" N AND LONGITUDE- 84° 45' 22.15" E TO 84° 45' 31.71" E, AREA-2.832HA	
			BALANDA STONE QUARRY-9 AT:- BALANDA, KHATA NO-239(SABAK) PLOT NO-1543/P, 1440/2266/P, 1440/2269/P KHATA NO-504(HAL CHAKA) PLOT NO-2008(P), 1899(P), 2009(P), KISSAM-PARBAT LATITUDE- 22° 11'08.91" N TO 22° 11' 15.43" N AND LONGITUDE- 84° 44' 42.19" E TO 84° 44' 54.49" E, AREA-4.876HA	
			BALANDA STONE QUARRY-10 AT:- BALANDA, KHATA NO-504, PLOT NO-1899/1, KISSAM-PARBAT, LAT-22° 11' 15.31" TO 22° 11' 29.54" N, LONG-84° 44' 45.98" TO 84° 44' 53.41" E,, AREA-4.876HA	
			BALANDA STONE QUARRY-14 AT:- BALANDA, KHATA NO-506, PLOT NO-2473/P, KISSAM-PATIT, LAT-22°11'28.44" TO 22°11'32.96", LONG-84°45'22.68" TO 84°45'34.26" , AREA-2.833HA	
			BALANDA STONE QUARRY-15 AT:- BALANDA, KHATA NO-506 & 504, PLOT NO-2473/P & 2010/P, KISSAM-PATIT&PARBATA, 22°11'15.27"N TO 22°11'19.18"N AND LONGITUDES OF 84°45'20.76"E TO 84°45'26.51"E , AREA-2.023HA	
			BALANDA STONE QUARRY-16 AT:- BALANDA, KHATA NO-504, PLOT NO-1893/P&2010/P, KISSAM-PARBATA, LAT-22°11'15.36"N TO 22°11'22.09"N , LONG-84°45'05.18"E TO 84°45'12.45"E , AREA-4.047HA	
6	RAJGANGPUR	JOURUMAL CLUSTER	JOURUMAL STONE QUARRY MOUZA: JORUMAL, KHATA NO : 165, PLOT NO : 1133/1571/P , KISSAM : DUNGRI, LAT-22°10'12.00" TO 22°10'16.94" , LONG-84°33'48.62" TO 84°33'53.70" , AREA-2.023HA	2
			JOURUMAL-II STONE QUARRY AT-JOURUMAL, KHATA NO-165 , PLOT NO-1253/P, KISSAM-DUNGURI, LAT-22°10'04.37" TO 22°10'10.98" , LONG-84°33'48.65" TO 84°33'52.92" , AREA-2.817HA	
7	ROURKELA	JHARABAHAL CLUSTER	JHARABAHAL STONE QUARRY I VILLAGE- JHARABAHAL, KHATA NO.25, PLOT NO.280/P & 281/P, KISSAM-PARBAT, LAT-22°11'31.04" TO 22°11'38.73", LONG- 84°51'05.18" TO 84°51'14.00" , AREA-4.85HA	2
			JHARABAHAL STONE QUARRY II VILLAGE-JHARABAHAL, KHATA NO.25, PLOT NO-281/P, KISSAM-PARBAT, LAT-22°11'34.42" TO 22°11'39.99" , LONG- 84°51'14.99" TO 84°51'21.98" , AREA- 2.14HA	

20. DETAILS OF ECO-SENSITIVE AREA, IF ANY, IN THE DISTRICT.

Eco-Sensitive Zones or ecologically fragile areas are notified by the Ministry of Environment, Forest and climate Change, Government of India around protected areas, National Parks and Wildlife sanctuaries. But there are no Eco-sensitive zones exists in Sundargarh District.


 Deputy Director Mines
 Rourkela

21. IMPACT ON THE ENVIRONMENT (AIR, WATER, NOISE, SOIL, FLORA & FAUNA, LAND USE, AGRICULTURE, FOREST ETC.) DUE TO MINING ACTIVITY.

Mining is the extraction of minerals and other geological materials of economic value from deposits on the Earth. Mining adversely affects the environment by inducing loss of biodiversity, soil erosion, and contamination of surface water, groundwater, and soil. Mining can also trigger the formation of sinkholes. The leakage of chemicals from mining sites can also have detrimental effects on the health of the population living at or around the mining site.

As mentioned above, mining activities can harm the environment in several ways.

Mining of major minerals in the Division is not a common feature, though forests areas are rich in Tin ore in Tulsi RL of Mathili Range and Quartzite in Challanguda and Mendikuli area of Mathili. This Division is receiving Prospecting License Application for Granite in Motu Area from Deputy Director, Mines, and Koraput. But till date no mining work has been started. Recently the Mining Department has approached this Division for DGPS Survey of Limestone area for mining purpose at Kotamateru, Uskalbag, Nandiguda and Daranpalli. Other minor mineral like murum and boulders are collected by the contractor and in some case private too on a regular basis, in some area by the local people also to earn their livelihood. This collection is destructive to forests. Mainly stone quarry are going on in the District. Several serious environmental impacts related to quarrying activities on and near the river, such as vibration, land degradation, land subsidence and landslides, water pollution and air pollution, will lead to health related problems and loss of biodiversity.

Impacts on Air

Air quality is adversely affected by mining operations. Unrefined materials are released when mineral deposits are exposed on the surface through mining. Wind erosion and nearby vehicular traffic cause

such materials to become airborne. Lead, arsenic, cadmium, and other toxic elements are often present in such particles. These pollutants can damage the health of people living near the mining site. Diseases of the respiratory system and allergies can be triggered by the inhalation of such airborne particles.

Impacts on Water

Mining also causes water pollution which includes metal contamination, increased sediment levels in streams, and acid mine drainage. Pollutants released from processing plants, tailing ponds, underground mines, waste-disposal areas, active or abandoned surface or haulage roads, etc., act as the top sources of water pollution. Sediments released through soil erosion cause siltation or the smothering of stream beds. It adversely impacts irrigation, swimming, fishing, domestic water supply, and other activities dependent on such water bodies.

High concentrations of toxic chemicals in water bodies pose a survival threat to aquatic flora and fauna and terrestrial species dependent on them for food. The acidic water released from metal mines or coal mines also drains into surface water or seeps below ground to acidify groundwater. The loss of normal pH of water can have disastrous effects on life sustained by such water.

Noise impacts

Noise pollution mainly due to operation of machineries, occasional plying of machineries and drilling & blasting. These activities will create noise pollution in the surrounding area that affects the life of the nearby habitats.

Impact on Soil

Soil disruptions can contribute to the deterioration of the area's flora and fauna. There is also a huge possibility that many of the surface features that were present before mining activities cannot be replaced after the process has ended. The removal of soil layers and deep underground digging can destabilize the ground which threatens the future of roads and buildings in the area.

Impacts on Flora & Fauna

Often, the worst effects of mining activities are observed after the mining process has ceased. The destruction or drastic modification of the pre-mined landscape can have a catastrophic impact on the biodiversity of that area. Mining leads to a massive habitat loss for a diversity of flora and fauna ranging from soil microorganisms to large mammals. Endemic species are most severely affected since even the slightest disruptions in their habitat can result in extinction or put them at high risk of being wiped out. Toxins released through mining can wipe out entire populations of sensitive species.

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

The major potential environmental impacts associated with mining and associated mineral processing operations are related to erosion-prone landscapes, soil and water quality, and air quality. These potential impacts are recognized and addressed in current mining operations as well as in some former mining operations by reclaiming areas of physical disturbance to prevent erosion, stabilizing soils containing metals or chemicals to prevent unwanted metal releases into the environment, preventing and/or treating water contamination, and controlling air emissions.

Mine closure and a number of activities to mitigate the impacts of mining are an integral part of all mine planning and mineral development from the discovery phase through to closure:

- Reclamation
- Soil treatment
- Water treatment
- Preventing acid rock drainage
- Controlling gas emissions

Air

Mitigation measures suggested for air pollution controls are to be based on the baseline ambient air quality of the project/cluster area and would include measures such as:

- Dust generation shall be reduced by using sharp teeth of shovels.
- Wet drilling shall be carried out to contain the dust particles.
- Controlled blasting techniques shall be adopted.
- Water sprinkling on haul roads, service roads and overburden dumps will help in reducing considerable dust pollution.
- Proper and regular maintenance of mining equipment's have to be undertaken.
- Transport of materials in trucks are to be covered with tarpaulin.
- The mine pit water can be utilized for dust suppression in and around mine area.
- Information on wind diction and meteorology are to be considered during planning, so that pollutants, which cannot be fully suppressed by engineering techniques, will be prevented from reaching the nearby agricultural land, if any.
- Comprehensive greenbelt around overburden dumps and periphery of the mining projects/clusters has to be carried out to reduce to fugitive dust transmission from the project area in order to create clean & healthy environment.

Water

- Construction of garland drains and settling tanks to divert surface run –off of the mining area to the natural drainage.
- Construction of checks dams/ gully plugs at strategic places to arrest silt wash off from broken up area.
- Retaining walls with weep hole are to be constructed around the mine boundaries to arrest silt wash off.

- The mined-out pits shall be converted in to the water reservoir at the end of mine life. This will help in recharging ground water table by acting as a water harvesting structure.
- Periodic analysis of mine pit water and ground water quality in nearby villages are to be undertaken.
- Domestic sewage from site office & urinals/latrines provided within ML/QL areas is to be discharged in septic tank followed by soak pits.

Noise

- Periodic maintenance of machineries, equipments shall be ensured to keep the noise generated within acceptable limit.
- Development of thick green belt around mining/cluster area, haul roads to reduce the noise.
- Provision of earplugs to workers exposed to high noise generating activities like blasting, excavation site etc. Worker and operators at work sites will be provided with earmuffs.
- Conducting periodical medical check-up of all workers for any noise related health problems.
- Proper training to personnel to create awareness about adverse noise related effects.
- Periodic noise monitoring at locations within the mining area and nearby habitations to assess efficacy of adopted control measures.
- During blasting optimum spacing, burden and charging of holes will be made under the supervision of competent qualified mines foreman, mate etc.

Biological Environment

- Development of green belt/gap filling saplings in the safety barrier left around the quarry area/ cluster area.

- Carrying out thick greenbelt with local flora species predominantly with long canopy laves on the inactive mined out upper benches.
- Development of dense poly culture plantation using local floral species in the mining areas at conceptual stage if the mine is not continued much below the general ground level.
- Adoption of suitable air pollution control measures as suggested above.
- Transport of materials in trucks covered with tarpaulin.

23. RECLAMATION OF MINED OUT AREA (BEST PRACTICE ALREADY IMPLEMENTED IN THE DISTRICT, REQUIREMENT AS PER RULES AND REGULATION, PROPOSED RECLAMATION PLAN).

Mine reclamation is the process of restoring land that has been mined to a natural or economically usable state. Although the process of mine reclamation occurs once mining is completed, the planning of mine reclamation activities occurs prior to a mine being permitted or started. Mine reclamation creates useful landscapes that meet a variety of goals ranging from the restoration of productive ecosystems to the creation of industrial and municipal resources. Modern mine reclamation minimizes and mitigates the environmental effects of mining.

In Sundargarh district no stone Quarry has been reported as exhausted of mineral, hence no reclamation approach has been implemented in present date. Mainly two types of reclamation proposal are normally proposed i.e. Firstly Back filling of the exhausted mine by mine generated waste and capping of top soil for forest plantation and growth. Secondly proper fencing of quarried area and can be developed as water reservoir, fishery development or tourist attraction points after the life of the mine.

24. RISK ASSESSMENT & DISASTER MANAGEMENT PLAN.

Risk assessment is the determination of quantitative or qualitative value of risk related to a concrete situation and a recognized threat. Activities requiring assessment of risk due to occurrence of most probable instances of hazard and accident are both onsite and off-site.

It must be realized that any incident may develop into a major emergency even with the best safety measures and programmes in any industry. Hence, an emergency procedure will be planned properly and documented to help in reducing time loss, chaos and confusion at the hour of need by assigning person who will engage in meeting emergency smoothly and effectively. Any accident which has potential to develop into a major emergency can threaten large number of person or large area of the industries on the site may affect safety of the public, property and environment. Hence, it is absolutely essential that emergency procedures will be properly planned and documented.

Stone quarry mining is an opencast practice in the district, hardly cause disastrous situation except bench failure if the slope of the benches are not well maintained and height of the benches are exceptionally high not executed as per the approved Plan. Any disastrous situation raised in the mining area must be reported to the concern authorities as soon as possible.

25. 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).

As per the data provided by CDMO, Sundargarh Tuberculosis & Silicosis patients cases of last 5 years is as follows;

(1) Details of the occupational health issues in the district (Last Five years)

HIGHLIGHTS OF TUBERCULOSIS & SILICOSIS REPORT FOR LAST FIVE YEARS OF SUNDARGARH						
S/N	TB ACTIVITIES	2018	2019	2020	2021	2022
1	Total number of Patient diagnosed	2891	3477	2945	3037	3850
2	Total number of Patients Notified	2800	3426	2968	3036	3805
3	MDR TB	9	31	26	10	10
4	Treatment Completed	2445	3129	2706	2770	3402
5	Died	143	187	140	164	166
6	LTF	102	89	74	50	47
7	Failure	26	17	17	6	9
8	Treatment Changed	4	15	9	5	7
9	Not evaluted	9	57	56	14	10
10	On treatment	0	0	0	0	5
11	Not Started Treatment	1	30	66	58	53
12	Silicosis Activities	NA	NA	NA	NA	NA
13	OPD Patient	NA	NA	NA	NA	NA
14	IPD Patient	NA	NA	NA	NA	NA

Ans: There is no scope to record Silicosis TB.

[Signature]
16/2/24

addl. District Public Health Officer (TB)
Sundargarh

26. PLANTATION AND GREEN BELT DEVELOPMENT IN RESPECT OF LEASES ALREADY GRANTED IN THE DISTRICT.

As the stone quarry lease within the district are non-forest lands rather revenue lands. As per the guidelines prescribed by OMMCR-2016 a safety zone of 7.5m has been considered for all quarry leases all along the inside of boundary line. Plantation proposal has been usually stated in the approved Mining Plans for all quarry leases. Saplings of local plants has been proposed to be planted in the safety zone area of quarries.

27. ANY OTHER INFORMATION.

Sundargarh district has a glorious rich cultural past, rich in agriculture. It is at the northern marginal area of Eastern Ghat Province having potential of several valuable minerals like Coal, Iron Ore, Manganese, bauxite, Dolomite, Limestone, Pyroxenite, dimension stones, ordinary stones, sand etc. Systematic & scientific application of technologies in all fields will definitely enhance the livelihood of the common man of the area and the district can contribute a major part in thriving of the state as well as the nation.



Annexure-V

Final List of Potential Mining Leases (existing & proposed)

Lease No.	Lease Details	Area (in Ha)	Distance (in KM) from PA/BR/W C/	Distance from Forest Area (in KM)	Mining leases within 500 meters (if yes cluster area)	Total excavation in Cum per annum	Mineral to be mined in CUM (Stone)	Existing/ Proposed	Remarks
A1	Deobhubanpur Stone Quarry, Mouza-Deobhubanpur, Khata No.- 351 Plot No.- 3448, 3449, 3450, KISSAM- Patita, Latitude- 22°17'10.31" to 22°17'15.26" , Longitude – 83°54'15.45" to 83°54'19.77"	0.899	PA-30.50, BR-10.46	30	NO	Not Operational	Not Operational	EXISTING	Want of Statutory documents
A2	Deobhubanpur Stone Quarry(NEW), MOUZA-DEOBHUBANPUR, KHATA NO-333/278, PLOT NO-3465,3466 & 3468, KISSAM-GODA-II	2.051	PA-35.40, BR-11.84	35	NO	New Proposed Source	New Proposed Source	PROPOSED	New Proposed Source
C1	Kudarbahal Stone Quarry-3, MOUZA-KUDARBAHAL, KHATA NO-36, PLOT NO-233/P, KISSAM-TUMGURI, LAT-22°12'23.94"N to 22°12'27.05"N , LONG-84°57'4.56"E to 84°57'10.11"E	1.214	PA-1.73, BR-2.73	1.73	YES	133333.2	120000	EXISTING	BIDDER NOT FINALIZED
C2	Kudarbahal Stone Quarry-2, MOUZA-KUDARBAHAL, KHATA NO-33, PLOT NO-232/362 , KISSAM-Patita, LAT-22°12'34.87" to 22°12'38.62" , LONG-84°57'10.67" to 84°57'18.13"	2.023	PA-1.86, BR-2.39	1.86	YES	11111.1	10000	EXISTING	LEASE DEED NOT DONE
C3	Kudarbahal Stone Quarry-1, MOUZA-KUDARBAHAL, KHATA NO-33,36, PLOT NO-232/363/P & 233/P, KISSAM-Patita & Dunguri, LAT-22°12'26.67"N to 22°12'30.71"N, LONG-84°57'5.14"E to 84°57'11.96"E	1.76	PA-1.86, BR-2.61	1.86	YES	11111.6	10000	EXISTING	LEASE DEED NOT DONE
C4	Dumerta-1 Stone Quarry, Mouza-DUMERTA, Khata No-114 Plot No-366/p, AREA-1.5AC, Kissam-patit Plot no-374/p, AREA-4.5AC, KISSAM-Tunguri Latitude- 22° 12'43.44" N to 22° 12' 35.72" N and Longitude- 84° 55' 16.30" E to 84° 55' 24.63" E	2.428	PA3.97- ,BR-5.48	3.97	YES	2,364.4	2128	EXISTING	Operational

C5	Mahiberna Stone Quarry, Mouza- MAHIBERNA, Khata No-28 Plot No 121/181 Kissam-Goda-II Latitude- 22° 18'19.9" N to 22° 18' 22.6" N and Longitude- 85° 06' 02.0" E to 85° 06' 06.1" E	0.85	PA- 3.74, BR- 1.83	3.74	NO	1,388.8	1250	EXISTING	BIDDER NOT FINALIZED
C6	Birker Stone Quarry, Mouza-BIRKERA, Khata No-79, Plot No 672/1176, Kissam-Patit, LAT- , LONG-	1.618	PA- 1.77, BR- 9.31	1.77	NO	Not Operational	Not Operational	EXISTING	BIDDER NOT FINALIZED
C7	MAHIPANI STONE QUARRY-1(NEW), AT- MAHIPANI, KHATA NO-142, PLOT NO-28/P, KISSAM-GACHAR, Area-2 Acre	0.81	PA- 4.40, BR- 4.63	4.4	NO	New Proposed Source	New Proposed Source	PROPOSE D	New Proposed Source
C8	MAHIPANI STONE QUARRY-2(NEW), AT- MAHIPANI, KHATA NO-142, PLOT NO-634/P, KISSAM-GRAMYA JANGAL, Area-2.50 Acre	1.01	PA- 2.88, BR- 5.77	2.88	NO	New Proposed Source	New Proposed Source	PROPOSE D	New Proposed Source
D1	CHANDRAPUR STONE QUARRY, Mouza- Chandrapur, Khata No- 171, Plot No.- 478/P, Latitude- 21°43'46.40" to 22°43'51.85" Longitude- 84°49'46.93" to 84°49'36.01"	4.046	PA- 0.47, BR- 1.01	0.47	NO	Not Operational	Not Operational	EXISTING	BIDDER NOT FINALIZED
E1	San-Musaposh Stone Quarry- 1, Mouza- San-Musaposh, Khata No. 4, Plot No. 2/p, KISSAM-Pahad	2.428	PA- 1.51, BR- 7.29	1.51	YES	2947.3	2800	EXISTING	BIDDER NOT FINALIZED
E2	San-Musaposh Stone Quarry-2, Mouza- San-Musaposh, Khata No. 4, Plot No. 3/P, KISSAM-Pahad	2.428	PA- 1.54, BR- 7.35	1.54	YES	99920	99920	EXISTING	BIDDER NOT FINALIZED
F1	Sarbahal Stone Quarry, MOUZA-Sarbahal, Khata No. 49/134, Plot No. 1132, 1145, 1143, 1140, 1139,, 1138, 1137, 1136 & 1135, KISSAM-MALA SADHARANA, GODA - II, Longitude- 83°48'29.33" to 83°48'36.49", Latitude -21°57'29.66" to 21°57'33.85"	1.656	PA- 6.14, BR- 17.84	6.14	YES	23465.8	19946	EXISTING	Operational
F2	Sanbalichuan Stone Quarry, MOUZA- Balichuanbada & San Balichuan, Khata No. 84/158 & 38/60, Plot No. 978, 121, 120, 119/355, 119/358, Kisam-Goda-2 & MA.SA, Latitude- 22° 3'18.27"N to 22° 3'23.13"N and Longitude- 83°50'28.24"E to 83°50'33.39"E, Area-5.30 Acre	2.145	PA- 13.27, BR- 16.00	13.27	NO	20,762.4	17648.1	PROPOSE D	New Proposed Source
F3	SARBAHAL-A STONE QUARRY(NEW), AT- SARBAHAL, KHATA NO-50, PLOT NO- 1062, 1087, 1144, 1146, KISSAM-JUNGLE, KHATA NO-52, PLOT NO-1066, 1071, 1078, 1077, KISSAM-JUNGLE & JANA SADHARANA, Area-31.37 Acre	12.695	PA- 8.85, BR- 20.62	8.85	YES	New Proposed Source	New Proposed Source	PROPOSE D	New Proposed Source

G1	Sianbahal Stone Quarry, MOUZA-SIANBAHAL, Khata No.21 (AAA), Plot No. 30, KISSAM-DUNGURI ,LaT-22°01'06.77" to 22°01'13.18", LONG- 85°01'03.21" to 85°01'20.48"	4.856	PA-2.93,BR-1.40	2.93	NO	24,769.6	21054.2	EXISTING	BIDDER NOT FINALIZED
G2	Thelakudar-I Stone Quarry,MOUZA-THELAKUDAR, Khata No. 26, Plot No.126/P La-21° 59 '04.93"N to 21° 58' 57.58"N Lo- 84° 58' 06.40"E to 84° 57' 58.70"E	4.047	PA-1.93,BR-3.20	1.93	YES	Not Operational	Not Operational	EXISTING	BIDDER NOT FINALIZED
G3	Banko Stone Quarry,MOUZA-BANKO,Khata No. 47 (AAA), Plot No. 342/P, Kissam-PATHAR CHATAN, LaT-22°03'58.43" to 22°03'50.56" LoNG- 85°05'23.92" to 85°05'11.92"	4.856	PA-5.07,BR-2.30	5.07	NO	10,026.6	9024	EXISTING	Operational
G4	Thelakudar-II Stone Quarry,MOUZA-THELAKUDAR, KHATA NO-26, Plot No.126/2, KISSAM- Pahad, LAT- 21°59'03.89" to 21°59'08.52" LONG-84°57'56.66" to 84°58'01.48"	0.93	PA-1.93,BR-3.20	1.93	YES	12372	12000.8	EXISTING	BIDDER NOT FINALIZED
I1	Asurchhapal Stone Quarry-I,At:- Asurchhapal, Khata No-112, Plot No-385/P, Kissam-Pahad,LAT- 22°10'13.88" to 22°10'17.02",LONG-84°52'33.98" to 84°52'36.96",	1.777	PA-5.47,BR-9.29	5.47	YES	11,820	10047	EXISTING	Operational
I2	Balanda Stone Quarry-1,At:- Balanda, Khata No-504, Plot No-1897/P, Kissam-Parbat Latitude- 22° 11'25.63" N to 22° 11' 33.07" N and Longitude- 84° 45' 01.18" E to 84° 45' 09.08" E	4.249	PA-0.65,BR-6.00	0.65	YES	41673	37506	EXISTING	BIDDER NOT FINALIZED
I3	Balanda Stone Quarry-2,At:- Balanda, Khata No-504, Plot No-1897/P, Kissam-Parbat Latitude- 22°11'25.03"N to 22°11'31.41"N and Longitude- 84°45'02.86"E to 84°45'11.64"E	4.876	PA-0.67,BR-6.1	0.67	YES	103113	100019.6	EXISTING	Operational
I4	Balanda Stone Quarry-3,At:- Balanda, Khata No-504, Plot No-1893/P, Kissam-Pahad Latitude- 22°11'26.70" to 22°11'31.97" and Longitude- 84°45'12.70" to 84°45'23.53"	4.046	PA-1.65,BR-6.00	1.65	YES	100100	97097.0	EXISTING	Operational
I5	Balanda Stone Quarry-7,At:- Balanda, Khata No-504, Plot No-2473/P, Kissam-Patit latitudes of 22°11'21.37"N to 22°11'25.72"N and longitudes of 84°45'34.90"E to 84°45'24.18"E	4.046	PA-1.64,BR-6.02	1.64	YES	51597	50049	EXISTING	LEASE DEED NOT DONE
I6	Balanda Stone Quarry-8,At:- Balanda, Khata No-238, Plot No-2292/P, Kissam-Patit Latitude- 22° 11'24.58" N to 22° 11' 28.82" N and Longitude- 84° 45' 22.15" E to 84° 45' 31.71" E	2.832	PA-1.68,BR-6.3	1.68	YES	63162	60004	EXISTING	BIDDER NOT FINALIZED
I7	Balanda Stone Quarry-9,At:- Balanda,Khata No-239(sabak) Plot No-1543/P,1440/2266/P,1440/2269/P Khata No-504(Hal chaka) Plot No-2008(P),1899(P),2009(P), Kissam-Parbat	4.876	PA-1.70,BR-6.32	1.7	YES	51606	50057.8	EXISTING	BIDDER NOT FINALIZED

	Latitude- 22° 11'08.91" N to 22° 11' 15.43" N and Longitude- 84° 44' 42.19" E to 84° 44' 54.49" E								
18	Balanda Stone Quarry-10,At:- Balanda, Khata No-504, Plot No-1899/1, Kissam-Parbat,LAT-22° 11' 15.31" TO 22° 11' 29.54"N, LONG-84° 44' 45.98" TO 84° 44' 53.41"E,	4.876	PA-0.13,BR-6.00	0.13	YES	12455	12081.4	EXISTING	Operational
19	Balanda Stone Quarry-14,At:- Balanda, Khata No-506, Plot No-2473/P, Kissam-Patit, LAT-22°11'28.44" to 22°11'32.96", LONG-84°45'22.68" to 84°45'34.26"	2.833	PA-1.55,BR-6.99	1.55	YES	15480	15016	EXISTING	LEASE DEED NOT DONE
110	Balanda Stone Quarry-15,At:- Balanda, Khata No-506 &504, Plot No-2473/P & 2010/P, Kissam-Patit&Parbata,22°11'15.27"N to 22°11'19.18"N and longitudes of 84°45'20.76"E to 84°45'26.51"E	2.023	PA-1.32,BR-7.46	1.32	YES	15479	15015	EXISTING	LEASE DEED NOT DONE
111	Balanda Stone Quarry-16,At:- Balanda, Khata No-504, Plot No-1893/P&2010/P, Kissam-Parbata,LAT-22°11'15.36"N to 22°11'22.09"N , LONG-84°45'05.18"E to 84°45'12.45"E	4.047	PA-0.67,BR-6.3	67	YES	82547	80070.6	EXISTING	LEASE DEED NOT DONE
112	DALAKUDAR STONE QUARRY(NEW),AT-DALAKUDAR, KHATA NO-42, PLOT NO-243 & 244, KISSAM-BAHAL SADHARAN & GODA-II,Area-2.45 Acre	0.991	PA-3.61,BR-8.35	3.61	NO	New Proposed Source	New Proposed Source	PROPOSED	New Proposed Source
113	Jalda New Stone Quarry,At:- Jalda, Khata No-121, Plot No-47/P Kissam-Pahad,Area-3 Acre	1.21	PA-4.23,BR-4.96	4.23	NO	New Proposed Source	New Proposed Source	PROPOSED	New Proposed Source
J1	Raidihi- B Stone Quarry,MOUZA-RAIDIHKhata No. 476/14,Plot No- 772 Ac. 0.38,Plot No-773 Ac. 0.45,Plot No- 774 Ac. 0.21,Plot No-776 Ac . 0.29,Plot No- 820 Ac. 0.08, Khata No. 476/15,Plot No- 866 Ac. 0.28,Plot No- 867 Ac. 0.13,Plot No-868 Ac. 0.15,Khata No. 476/21,Plot No- 858 Ac. 0.79,Plot No-864 Ac. 0.57 Khata No. 476/804,Plot No- 831 Ac.1.57,Khata no. 476/800 Plot No-822 Ac.1.24,Plot No- 824 Ac.0.30,Plot No-828 Ac.1.31,Plot No- 857 Ac.0.05Total Ac. 7.80	3.156	PA-14.38,BR-9.26	14.38	NO	41,522.4	35294.1	EXISTING	BIDDER NOT FINALIZED
K1	Rajgangpur-IV Stone Quarry,Mouza-Rajgangpur K No. 379, P No. 1063, KISSAM- Pahad,LAT-22°10'38.78" to 22°10'45.66" ,LONG-84°35'27.31" to 84°35'34.13"	1.882	PA-4.38,BR-21.61	4.38	YES	4,702.2	4232	EXISTING	LEASE DEED NOT DONE

K2	Ramlata Stone Quarry,Mouza- Ramlata, K No. 37, P No. 25, KISSAM- Pahad, LAT-22°10'34.60" to 22°10'41.85", LONG- 84°40'27.07" to 84°40'38.25"	3.237	PA- 1.64,BR- 13.78	1.64	NO	8,640	7776	EXISTING	BIDDER NOT FINALIZED
K3	Kansbahal Stone Quarry,Mouza-Kansbahal, Khata No. 132, Plot No. 1914, KISSAM- Dunguri, LAT- 22°11'51.02" to 22°12'04.25", LONG- 84°40'44.52" to 83°40'51.63"	3.112	PA- 0.32,BR- 12.75	0.32	NO	Not Operational	Not Operational	EXISTING	BIDDER NOT FINALIZED
K4	Kutunia Stone Quarry,Mouza- Kutunia, Khata No-443 ,Plot No-2214, 2216,Kissam-PATIFA, LAT- 22°9'05.60" to 22°9'11.70", LONG-84°31'00.64" to 84°31'59.87"	1.635	PA- 2.61,BR- 17.66	2.61	NO	Not Operational	Not Operational	EXISTING	BIDDER NOT FINALIZED
K5	Raikakachhar Stone Quarry,Mouza- Raikakachhar , Khata no : 155 , Plot No : 1131, Kisam- Chattan,LAT-22°9'16.00" to 22°9'21.20, LONG-84°30'10.3" to 84°30'19.1"	1.295	PA- 4.10,BR- 17.46	4.1	NO	Not Operational	Not Operational	EXISTING	Operational
K6	Jourumal Stone Quarry,Mouza: Jorumal, Khata No : 165, Plot No : 1133/1571/P , Kisam : Dungri, LAT-22°10'12.00" to 22°10'16.94" , LONG-84°33'48.62" to 84°33'53.70"	2.023	PA- 3.76,BR- 16.33	3.76	YES	Not Operational	Not Operational	EXISTING	BIDDER NOT FINALIZED
K7	Sunakhandi Stone Quarry,Mouza: Sunakhandi Khata No:73 Plot No 928 Kisam : Dunguri,LAT- 22°07'10.06" to 22°07'18.00",LONG-84°30'21.03" to 84°30'29.06"	4.047	PA- 1.59,BR- 21.86	1.59	NO	Not Operational	Not Operational	EXISTING	BIDDER NOT FINALIZED
K8	Kumarkela Stone Quarry-I,Mouza: Kumarkela Khata No:413 Plot No 3155/p Kisam : Pahad,LAT-22°11'27.59" to 22°11'34.41" ,LONG- 84°37'15.34" to 84°37'21.55"	2.832	PA- 2.95,BR- 2.49	2.95	NO	Not Operational	Not Operational	EXISTING	Non- working due to protest by local villegers
K9	Jourumal-II Stone Quarry,AT-JOURUMAL, Khata No-165 , Plot No-1253/P, Kissam- DUNGURI, lat-22°10'04.37" to 22°10'10.98" , long-84°33'48.65" to 84°33'52.92"	2.817	PA- 3.76,BR- 16.33	3.76	YES	6600	6270	EXISTING	BIDDER NOT FINALIZED
K10	Bhagattola Stone Quarry-A (NEW),AT- BHAGATTOLA, KHATA NO-169, PLOT NO-431/P, KISSAM-PAHADA,Area-12.40 Acre	5	PA- 4.00,BR- 16.49	4	NO	New Proposed Source	New Proposed Source	PROPOSE D	New Proposed Source
L1	Tangarpali Stone Quarry-I,Village-Tangarpali, Khata No.82, Plot No431/p, Kissam-Patita, Lat- 22°11'26.14" to 22°11'30.59" , Long-84°52'54.09" to 84°52'56.27"	1.61	PA- 5.51,BR- 8.55	5.51	NO	3,884.4	3496	EXISTING	Operational
L2	Jharabahal Stone Quarry- I,Village- Jharabahal, Khata No.25, Plot No.280/p &281/p, Kissam-Parbat, Lat-22°11'31.04" to 22°11'38.73" , Long- 84°51'05.18" to 84°51'14.00"	4.85	PA- 5.79,BR- 8.60	5.79	YES	22222.2	20000	EXISTING	LEASE DEED NOT DONE

L3	Jharabahal Stone Quarry II, Village- Jharabahal, Khata No.25, Plot No-281/p, Kissam-Parbat, Lat-22°11'34.42" to 22°11'39.99" , Long- 84°51'14.99" to 84°51'21.98"	2.14	PA- 5.91,BR- 8.72	5.91	YES	6666.7	6000	EXISTING	LEASE DEED NOT DONE
M1	Damkuda Stone Quarry-A,AT-DAMKUDA, Khata no-195 Plot no-455,456 Kisam-Go-2 Khata no-196 Plot no-454 Kisam- Nala Latitude- 22° 15'41.36" N to 22° 15' 45.16" N and Longitude- 84° 06' 35.14" E to 84° 06' 41.11" E	1.526	PA- 31.80,BR- 3.22	31.8	NO	Not Operational	Not Operational	EXISTING	BIDDER NOT FINALIZED
O1	DUMANGDIRI STONE QUARRY-III,MOUZA- DUMANGDIRI, Khata No-72, Plot No-262, KISSAM-PAHAD, Latitude- 22° 22' 08.86" N to 22° 22' 27.05" N and Longitude- 84° 47' 58.65" E to 84°48' 22.14" E	20.364	PA- 13.90,BR- 33.37	13.9	NO	12,388.2	10530	EXISTING	Lease deed not executed
O2	DUMANGDIRI STONE QUARRY-IV,MOUZA- DUMANGDIRI, Khata No-72, Plot No-663, KISSAM-TUNGURI, Latitude- 22°21'39.69" to 22°21'26.69" and Longitude- 84°48'43.88" to 84°48'29.91"	13.456	PA- 24.00,BR- 12.29	24	NO	12,470.5	10600	EXISTING	Operational
O3	BESRAPADA - KUDABEDA STONE QUARRY,AT- BESRAPADA, Khata No-40, Plot No-16,17 Kissam-Patharbani,Area-2.67 2-Khata No-94, Plot No-579,428/1675,Kissam- Patit, Area-25.79	2.67 & 25.79	PA- 18.00,BR- 12.00	18	NO	20,595.2	17506	EXISTING	BIDDER NOT FINALIZED

Final Cluster & Contiguous Cluster details

Clusters:

Cluster No.	Lease No	Location (Patta Land)	Village	Area(in Ha)	Total Excavation (Cum)	Total Mineral Excavation (Cum)
1	C1	Kudarbahal Stone Quarry-3,MOUZA-KUDARBAHAL, KHATA NO-36, PLOT NO-233/P, KISSAM-TUMGURI, LAT-22°12'23.94"N to 22°12'27.05"N , LONG-84°57'4.56"E to 84°57'10.11"E	KUDARBAHAL	1.214	133333.2	120000
	C2	Kudarbahal Stone Quarry-2,MOUZA-KUDARBAHAL, KHATA NO-33,PLOT NO-232/362 ,KISSAM-Patita,LAT-22°12'34.87" to 22°12'38.62" ,LONG-84°57'10.67" to 84°57'18.13"		2.023	11111.1	10000
	C3	Kudarbahal Stone Quarry-1,MOUZA-KUDARBAHAL,KHATA NO-33,36,PLOT NO-232/363/P & 233/P,KISSAM-Patita & Dunguri,LAT-22°12'26.67"N to 22°12'30.71"N, LONG-84°57'5.14"E to 84°57'11.96"E		1.76	11111.6	10000
2	E1	San-Musaposh Stone Quarry- 1,Mouza- San-Musaposh, Khata No. 4, Plot No. 2/p, KISSAM- Pahad	SAN-MUSAPOSH	2.428	2947.3	2800
	E2	San-Musaposh Stone Quarry-2 ,Mouza- San-Musaposh, Khata No. 4, Plot No. 3/P, KISSAM- Pahad		2.428	99920	99920
3	F1	Sarbahal Stone Quarry,MOUZA-Sarbahal, Khata No. 49/134, Plot No. 1132,1145,1143,1140,1139,, 1138,1137,1136 & 1135, KISSAM-MALA SADHARANA,GODA - II, Longitude- 83°48'29.33" to 83°48'36.49", Latitude -21°57'29.66" to 21°57'33.85"	SARBAHAL	1.656	23465.8	19946
	F3	SARBAHAL-A STONE QUARRY(NEW),AT-SARBAHAL, KHATA NO-50, PLOT NO-1062,1087,1144,1146, KISSAM-JUNGLE, KHATA NO-52, PLOT NO-1066,1071,1078,1077, KISSAM-JUNGLE & JANA SADHARANA,Area-31.37 Acre		12.695	New Proposed Source	New Proposed Source
4	G2	Thelakudar-I Stone Quarry,MOUZA-THELAKUDAR, Khata No. 26, Plot No.126/P , La-21° 59 '04.93"N to 21° 58' 57.58"N Lo- 84° 58' 06.40"E to 84° 57' 58.70"E	THELAKUDAR	4.047	Not Operational	Not Operational
	G4	Thelakudar-II Stone Quarry,MOUZA-THELAKUDAR, KHATA NO-26, Plot No.126/2, KISSAM- Pahad, LAT- 21°59'03.89" to 21°59'08.52" LONG-84°57'56.66" to 84°58'01.48"		0.93	12372	12000.8

5	12	Balanda Stone Quarry-1,At:- Balanda, Khata No-504, Plot No-1897/P, Kissam-Parbat Latitude- 22° 11'25.63" N to 22° 11' 33.07" N and Longitude- 84° 45' 01.18" E to 84° 45' 09.08" E	BALANDA	4.249	41673	37506
	13	Balanda Stone Quarry-2,At:- Balanda, Khata No-504, Plot No-1897/P, Kissam-Parbat Latitude- 22°11'25.03"N to 22°11'31.41"N and Longitude- 84°45'02.86"E to 84°45'11.64"E		4.876	103113	100019.6
	14	Balanda Stone Quarry-3,At:- Balanda, Khata No-504, Plot No-1893/P, Kissam-Pahad Latitude- 22°11'26.70" to 22°11'31.97" and Longitude- 84°45'12.70" to 84°45'23.53"		4.046	100100	97097.0
	15	Balanda Stone Quarry-7,At:- Balanda, Khata No-504, Plot No-2473/P, Kissam-Patit latitudes of 22°11'21.37"N to 22°11'25.72"N and longitudes of 84°45'34.90"E to 84°45'24.18"E		4.046	51597	50049
	16	Balanda Stone Quarry-8,At:- Balanda, Khata No-238, Plot No-2292/P, Kissam-Patit Latitude- 22° 11'24.58" N to 22° 11' 28.82" N and Longitude- 84° 45' 22.15" E to 84° 45' 31.71" E		2.832	63162	60004
	17	Balanda Stone Quarry-9,At:- Balanda,Khata No-239(sabak) Plot No-1543/P,1440/2266/P,1440/2269/P Khata No-504(Hal chaka) Plot No- 2008(P),1899(P),2009(P), Kissam-Parbat Latitude- 22° 11'08.91" N to 22° 11' 15.43" N and Longitude- 84° 44' 42.19" E to 84° 44' 54.49" E		4.876	51606	50057.8
	18	Balanda Stone Quarry-10,At:- Balanda, Khata No-504, Plot No-1899/1, Kissam-Parbat,LAT-22° 11' 15.31" TO 22° 11' 29.54"N, LONG-84° 44' 45.98" TO 84° 44' 53.41"E,		4.876	12455	12081.4
	19	Balanda Stone Quarry-14,At:- Balanda, Khata No-506, Plot No-2473/P, Kissam-Patit, LAT-22°11'28.44" to 22°11'32.96", LONG-84°45'22.68" to 84°45'34.26"		2.833	15480	15016
	110	Balanda Stone Quarry-15,At:- Balanda, Khata No-506 &504, Plot No-2473/P & 2010/P, Kissam-Patit&Parbata,22°11'15.27"N to 22°11'19.18"N and longitudes of 84°45'20.76"E to 84°45'26.51"E		2.023	15479	15015
	111	Balanda Stone Quarry-16,At:- Balanda, Khata No-504, Plot No-1893/P&2010/P, Kissam-Parbata,LAT-22°11'15.36"N to 22°11'22.09"N , LONG-84°45'05.18"E to 84°45'12.45"E		4.047	82547	80070.6
6	K6	Jourumal Stone Quarry, Mouza: Jorumal, Khata No : 165, Plot No : 1133/1571/P , Kism : Dungri, LAT-22°10'12.00" to 22°10'16.94" , LONG-84°33'48.62" to 84°33'53.70"	JOURUMAL	2.023	Not Operational	Not Operational

	K9	Jourumal-II Stone Quarry, AT-JOURUMAL, Khata No-165 , Plot No-1253/P, Kissam-DUNGURI, lat-22°10'04.37" to 22°10'10.98" , long-84°33'48.65" to 84°33'52.92"		2.817	6600	6270
7	L2	Jharabahal Stone Quarry- I, Village- Jharabahal, Khata No.25, Plot No.280/p & 281/p, Kissam-Parbat, Lat-22°11'31.04" to 22°11'38.73", Long- 84°51'05.18" to 84°51'14.00"	JHARABAHAL	4.85	22222.2	20000
	L3	Jharabahal Stone Quarry II, Village-Jharabahal, Khata No.25, Plot No-281/p, Kissam-Parbat, Lat-22°11'34.42" to 22°11'39.99" , Long- 84°51'14.99" to 84°51'21.98"		2.14	6666.7	6000

Contiguous Clusters:

Contiguous Cluster No.	Cluster No	Number of leases in the cluster Location (Riverbed/ Patta Land)	Distance between clusters(KM)	Area of Cluster (Ha)	Total Mineral Excavation. (Cum/Annum)
NIL	NIL	NIL	NIL	NIL	NIL

Annexure-VII

Final Transportation Routes for individual leases and leases in Cluster

Lease No.	Transportation Route No.	Number of tippers/day of lease	Number of tippers/day of all the lease on route	Length of route in KM	Type of road(Black Topped/unpaved)	Recommendation for road (Black Topped/unpaved)	The road will be Constructed by Govt/Lease Owner	Route Map & Location	
A1	Deobhubanpur Stone Quarry,Mouza-Deobhubanpur, Khata No.- 351 Plot No.- 3448, 3449, 3450, KISSAM- Patita, Latitute- 22°17'10.31" to 22°17'15.26" , Longitute – 83°54'15.45" to 83°54'19.77"	SH4	1	2	17.17	Black Topped	Black Topped	Govt	Mouza-Deobhubanpur,SH4
A2	Deobhubanpur Stone Quarry(NEW),MOUZA-DEOBHUBANPUR, KHATA NO-333/278, PLOT NO-3465,3466 & 3468, KISSAM-GODA-II	SH4	1		18.81	Black Topped	Black Topped	Govt	Mouza-Deobhubanpur,SH4
C1	Kudarbahal Stone Quarry-3, MOUZA-KUDARBAHAL, KHATA NO-36, PLOT NO-233/P, KISSAM-TUMGURI, LAT-22°12'23.94"N to 22°12'27.05"N , LONG-84°57'4.56"E to 84°57'10.11"E	NH320D	2	13	3.31	Black Topped	Black Topped	Govt	Mouza-Kudarbahal,NH320D
C2	Kudarbahal Stone Quarry-2,MOUZA-KUDARBAHAL, KHATA NO-33,PLOT NO-232/362 ,KISSAM-Patita,LAT-22°12'34.87" to 22°12'38.62" ,LONG-84°57'10.67" to 84°57'18.13"	NH320D	2		3.93	Black Topped	Black Topped	Govt	Mouza-Kudarbahal,NH320D
C3	Kudarbahal Stone Quarry-1,MOUZA-KUDARBAHAL,KHATA NO-33,36,PLOT NO-232/363/P & 233/P,KISSAM-Patita & Dunguri,LAT-22°12'26.67"N to 22°12'30.71"N, LONG-84°57'5.14"E to 84°57'11.96"E	NH320D	2		3.6	Black Topped	Black Topped	Govt	MOUZA-KUDARBAHAL, NH320D
C4	Dumerta-1 Stone Quarry, Mouza-DUMERTA,Khata No-114 Plot No-366/p,AREA-1.5AC, Kissam-patit Plot no-374/p, AREA-4.5AC, KISSAM-Tunguri Latitude- 22° 12'43.44" N to 22° 12' 35.72" N and Longitude- 84° 55' 16.30" E to 84° 55' 24.63" E	NH320D	1		2.29	Black Topped	Black Topped	Govt	Mouza-Dumerta,NH320D

C5	Mahiberna Stone Quarry,Mouza-MAHIBERNA,Khata No-28 Plot No 121/181 Kissam-Goda-II Latitude- 22° 18'19.9" N to 22° 18' 22.6" N and Longitude- 85° 06' 02.0" E to 85° 06' 06.1" E	NH320D	1	5	0.76	Black Topped	Black Topped	Govt	Mouza- Mahiberna,NH320D
C6	Birkera Stone Quarry,Mouza-BIRKERA, Khata No-79, Plot No 672/1176, Kissam-Patit	NH320D	2		3.13	Black Topped	Black Topped	Govt	Mouza- Birkera,NH320D
C7	MAHIPANI STONE QUARRY-1(NEW),AT-MAHIPANI, KHATA NO-142, PLOT NO-28/P, KISSAM-GACHAR,Area-2 Acre	NH320D	2		1.27	Black Topped	Black Topped	Govt	Mouza- Mahipani,NH320D
C8	MAHIPANI STONE QUARRY-2(NEW),AT-MAHIPANI, KHATA NO-142, PLOT NO-634/P, KISSAM-GRAMYA JANGAL,Area-2.50 Acre	NH320D	1		1.14	Black Topped	Black Topped	Govt	Mouza- Mahipani,NH320D
D1	CHANDRAPUR STONE QUARRY,Mouza-Chandrapur, Khata No- 171, Plot No.- 478/P, Latitude- 21°43'46.40" to 22°43'51.85" Longitude- 84°49'46.93" to 84°49'36.01"	NH143	2	5	6.07	Black Topped	Black Topped	Govt	Mouza- Chandrapur,NH143
E1	San-Musaposh Stone Quarry- 1,Mouza-San-Musaposh, Khata No. 4, Plot No. 2/p, KISSAM- Pahad	NH143	1		8.74	Black Topped	Black Topped	Govt	Mouza-San- Musaposh,NH143
E2	San-Musaposh Stone Quarry-2 ,Mouza-San-Musaposh, Khata No. 4, Plot No. 3/P, KISSAM- Pahad	NH143	2		8.81	Black Topped	Black Topped	Govt	Mouza-San- Musaposh,NH143
F1	Sarbahal Stone Quarry, MOUZA-Sarbahal, Khata No. 49/134, Plot No. 1132,1145,1143,1140,1139,, 1138,1137,1136 & 1135, KISSAM-MALA SADHARANA,GODA - II, Longitude- 83°48'29.33" to 83°48'36.49", Latitude -21°57'29.66" to 21°57'33.85"	NH49	4	7	25.33	Black Topped	Black Topped	Govt	Mouza- Sarbahal,NH49
F2	Sanbalichuan Stone Quarry, MOUZA-Balichuanbada & San Balichuan, Khata No. 84/158 & 38/60, Plot No.978,121,120, 119/355,119/358 , Kisam-Goda-2 & MA.SA ,Latitude- 22° 3'18.27"N to 22° 3'23.13"N" and Longitude- 83°50'28.24"E to 83°50'33.39"E	NH49	2		35.75	Black Topped	Black Topped	Govt	Mouza- Balichuanbada & San Balichuan,NH49

F3	SARBAHAL-A STONE QUARRY (NEW), AT-SARBAHAL, KHATA NO-50, PLOT NO-1062,1087,1144, 1146, KISSAM-JUNGLE, KHATA NO-52, PLOT NO-1066,1071,1078,1077, KISSAM-JUNGLE & MALA SADHARANA,	NH49	1		27.05	Black Topped	Black Topped	Govt	Mouza-Sarbahal,NH49
G1	Sianbahal Stone Quarry, MOUZA-SIANBAHAL, Khata No.21 (AAA), Plot No. 30, KISSAM-DUNGURI ,LaT-22°01'06.77" to 22°01'13.18", LONG- 85°01'03.21" to 85°01'20.48"	NH520	2	6	3.68	Black Topped	Black Topped	Govt	Mouza-Sarbahal,NH49
G2	Thelakudar-I Stone Quarry, MOUZA-THELAKUDAR, Khata No. 26, Plot No.126/P La-21° 59 '04.93"N to 21° 58' 57.58"N ,Lo- 84° 58' 06.40"E to 84° 57' 58.70"E	NH520	1		4.7	Black Topped	Black Topped	Govt	Mouza-Thelakudar,NH520
G3	Banko Stone Quarry, MOUZA-BANKO,Khata No. 47 (AAA), Plot No. 342/P, Kissam-PATHAR CHATAN, LaT-22°03'58.43" to 22°03'50.56" LoNG- 85°05'23.92" to 85°05'11.92"	NH520	2		10.8	Black Topped	Black Topped	Govt	Mouza-Banko,NH520
G4	Thelakudar-II Stone Quarry, MOUZA-THELAKUDAR, KHATA NO-26, Plot No.126/2, KISSAM- Pahad, LAT- 21°59'03.89" to 21°59'08.52" LONG-84°57'56.66" to 84°58'01.48"	NH520	1		4.7	Black Topped	Black Topped	Govt	Mouza-Thelakudar,NH520
I1	Asurchhapal Stone Quarry-1,At:- Asurchhapal, Khata No-112, Plot No-385/P, Kissam-Pahad,LAT- 22°10'13.88" to 22°10'17.02", LONG-84°52'33.98" to 84°52'36.96",	NH143	2	2	0.08	Black Topped	Black Topped	Govt	MOUZA-ASURCHHAPAL,NH143
I2	Balanda Stone Quarry-1,At:- Balanda, Khata No-504, Plot No-1897/P, Kissam-Parbat Latitude- 22° 11'25.63" N to 22° 11' 33.07" N and Longitude- 84° 45' 01.18" E to 84° 45' 09.08" E	SH10	1	20	8.61	Black Topped	Black Topped	Govt	MOUZA-BALANDA,SH10
I3	Balanda Stone Quarry-2,At:- Balanda, Khata No-504, Plot No-1897/P, Kissam-Parbat Latitude- 22°11'25.03"N to 22°11'31.41"N and Longitude- 84°45'02.86"E to 84°45'11.64"E	SH10	2		8.7	Black Topped	Black Topped	Govt	MOUZA-BALANDA,SH10

14	Balanda Stone Quarry-3,At:- Balanda, Khata No-504, Plot No-1893/P, Kissam-Pahad Latitude- 22°11'26.70" to 22°11'31.97" and Longitude- 84°45'12.70" to 84°45'23.53"	SH10	2		8.61	Black Topped	Black Topped	Govt	MOUZA-BALANDA,SH10
15	Balanda Stone Quarry-7,At:- Balanda, Khata No-504, Plot No-2473/P, Kissam-Patit latitudes of 22°11'21.37"N to 22°11'25.72"N and longitudes of 84°45'34.90"E to 84°45'24.18"E	SH10	2		8.8	Black Topped	Black Topped	Govt	MOUZA-BALANDA,SH10
16	Balanda Stone Quarry-8,At:- Balanda, Khata No-238, Plot No-2292/P, Kissam-Patit Latitude- 22° 11'24.58" N to 22° 11' 28.82" N and Longitude- 84° 45' 22.15" E to 84° 45' 31.71" E	SH10	2		8.64	Black Topped	Black Topped	Govt	MOUZA-BALANDA,SH10
17	Balanda Stone Quarry-9,At:- Balanda,Khata No-239(sabak) Plot No-1543/P,1440/2266/P ,1440/2269/P Khata No-504(Hal chaka) Plot No-2008(P),1899(P), 2009(P), Kissam-Parbat Latitude- 22° 11'08.91" N to 22° 11' 15.43" N and Longitude- 84° 44' 42.19" E to 84° 44' 54.49" E	SH10	2		8.8	Black Topped	Black Topped	Govt	MOUZA-BALANDA,SH10
18	Balanda Stone Quarry-10,At:- Balanda, Khata No-504, Plot No-1899/1, Kissam-Parbat,LAT-22° 11' 15.31" TO 22° 11' 29.54"N, LONG-84° 44' 45.98" TO 84° 44' 53.41"E,	SH10	3		8.9	Black Topped	Black Topped	Govt	MOUZA-BALANDA,SH10
19	Balanda Stone Quarry-14,At:- Balanda, Khata No-506, Plot No-2473/P, Kissam-Patit, LAT-22°11'28.44" to 22°11'32.96", LONG-84°45'22.68" to 84°45'34.26"	SH10	2		8.61	Black Topped	Black Topped	Govt	MOUZA-BALANDA,SH10
110	Balanda Stone Quarry-15,At:- Balanda, Khata No-506 &504, Plot No-2473/P & 2010/P, Kissam-Patit&Parbata,22°11'15.27"N to 22°11'19.18"N and longitudes of 84°45'20.76"E to 84°45'26.51"E	SH10	2		8.73	Black Topped	Black Topped	Govt	MOUZA-BALANDA,SH10
111	Balanda Stone Quarry-16,At:- Balanda, Khata No-504, Plot No-1893/P&2010/P, Kissam-Parbata,LAT-22°11'15.36"N to	SH10	2		8.7	Black Topped	Black Topped	Govt	MOUZA-BALANDA,SH10

	22°11'22.09"N ,LONG-84°45'05.18"E to 84°45'12.45"E								
I12	DALAKUDAR STONE QUARRY(NEW),AT-DALAKUDAR, KHATA NO-42, PLOT NO-243 & 244, KISSAM-BAHAL SADHARAN & GODA-II,Area-2.45 Acre	NH143	1	3	2.46	Black Topped	Black Topped	Govt	MOUZA-DALAKUDAR,NH143
I13	Jalda New Stone Quarry,At:- Jalda, Khata No-121, Plot No-47/P Kissam-Pahad,Area-3 Acre	NH143	2		0.78	Black Topped	Black Topped	Govt	MOUZA-JALDA,NH143
J1	Raidihi- B Stone Quarry,MOUZA-RAIDIHIKhata No. 476/14,Plot No- 772 Ac. 0.38,Plot No-773 Ac. 0.45,Plot No- 774 Ac. 0.21,Plot No-776 Ac . 0.29,Plot No- 820 Ac. 0.08, Khata No. 476/15,Plot No- 866 Ac. 0.28,Plot No- 867 Ac. 0.13,Plot No-868 Ac. 0.15,Khata No. 476/21,Plot No- 858 Ac. 0.79,Plot No-864 Ac. 0.57 Khata No. 476/804,Plot No- 831 Ac.1.57,Khata no. 476/800 Plot No-822 Ac.1.24,Plot No- 824 Ac.0.30,Plot No-828 Ac.1.31,Plot No- 857 Ac.0.05Total Ac. 7.80	SH10	2	15	24	Black Topped	Black Topped	Govt	MOUZA-RAIDIHI
K1	Rajgangpur-IV Stone Quarry,Mouza-Rajgangpur K No. 379, P No. 1063, KISSAM- Pahad,LAT-22°10'38.78" to 22°10'45.66" ,LONG-84°35'27.31" to 84°35'34.13"	SH10	1		5.85	Black Topped	Black Topped	Govt	MOUZA-RAJGANGPUR,SH10
K2	Ramlata Stone Quarry,Mouza- Ramlata, K No. 37, P No. 25, KISSAM- Pahad, LAT-22°10'34.60" to 22°10'41.85", LONG-84°40'27.07" to 84°40'38.25"	SH10	2		8.13	Black Topped	Black Topped	Govt	MOUZA-RAMLATA,SH10
K3	Kansbahal Stone Quarry,Mouza-Kansbahal, Khata No. 132, Plot No. 1914, KISSAM-Dunguri, LAT- 22°11'51.02" to 22°12'04.25", LONG- 84°40'44.52" to 83°40'51.63"	SH10	2		5.02	Black Topped	Black Topped	Govt	MOUZA-KANSBAHAL,SH10
K4	Kutunia Stone Quarry,Mouza- Kutunia, Khata No-443 ,Plot No-2214, 2216,Kissam-PATITA, LAT- 22°9'05.60" to 22°9'11.70", LONG-84°31'00.64" to 84°31'59.87"	SH10	1		9.78	Black Topped	Black Topped	Govt	MOUZA-KUTUNIA,SH10

K5	Raikakachhar Stone Quarry, Mouza-Raikakachhar , Khata no : 155 , Plot No : 1131, Kisam- Chattan,LAT-22°9'16.00" to 22°9'21.20, LONG-84°30'10.3" to 84°30'19.1"	SH10	1		9.76	Black Topped	Black Topped	Govt	MOUZA-Raikakachhar,SH10
K6	Jourumal Stone Quarry,Mouza: Jorumal, Khata No : 165, Plot No : 1133/1571/P , Kisam : Dungri, LAT-22°10'12.00" to 22°10'16.94" , LONG-84°33'48.62" to 84°33'53.70"	SH10	1		6.34	Black Topped	Black Topped	Govt	MOUZA-jorumal,SH10
K7	Sunakhandi Stone Quarry,Mouza: Sunakhandi Khata No:73 Plot No 928 Kisam : Dunguri, LAT-22°07'10.06" to 22°07'18.00", LONG-84°30'21.03" to 84°30'29.06"	SH10	2		15.43	Black Topped	Black Topped	Govt	MOUZA-Sunakhandi,SH10
K8	Kumarkela Stone Quarry-I,Mouza: Kumarkela Khata No:413 Plot No 3155/p Kisam : Pahad,LAT-22°11'27.59" to 22°11'34.41" ,LONG-84°37'15.34" to 84°37'21.55"	SH10	1		5.96	Black Topped	Black Topped	Govt	MOUZA-Kumarkela,SH10
K9	Jourumal-II Stone Quarry,AT-JOURUMAL, Khata No-165 , Plot No-1253/P, Kissam-DUNGURI, lat-22°10'04.37" to 22°10'10.98" , long-84°33'48.65" to 84°33'52.92"	SH10	1		6.34	Black Topped	Black Topped	Govt	MOUZA-Jorumal,SH10
K10	Bhagattola Stone Quarry-A (NEW),AT-BHAGATTOLA, KHATA NO-169, PLOT NO-431/P, KISSAM-PAHADA,Area-12.40 Acre	SH10	1		4.4	Black Topped	Black Topped	Govt	MOUZA-Bhagattola,SH10
L1	Tangarpali Stone Quarry-I,Village-Tangarpali, Khata No.82, Plot No431/p, Kissam-Patita, Lat- 22°11'26.14" to 22°11'30.59" , Long-84°52'54.09" to 84°52'56.27"	NH143	2		4.05	Black Topped	Black Topped	Govt	MOUZA-Tangarpali,NH143
L2	Jharabahal Stone Quarry- I,Village-Jharabahal, Khata No.25, Plot No.280/p &281/p, Kissam-Parbat, Lat-22°11'31.04" to 22°11'38.73" , Long- 84°51'05.18" to 84°51'14.00"	NH143	1	5	0.39	Black Topped	Black Topped	Govt	MOUZA-Jharabahal,NH143
L3	Jharabahal Stone Quarry II,Village-Jharabahal, Khata No.25, Plot No-281/p, Kissam-Parbat, Lat-22°11'34.42" to 22°11'39.99" , Long- 84°51'14.99" to 84°51'21.98"	NH143	2		0.4	Black Topped	Black Topped	Govt	MOUZA-Jharabahal,NH143

M1	Damkuda Stone Quarry-A,AT-DAMKUDA, Khata no-195 Plot no-455,456 Kisam-Go-2 Khata no-196 Plot no-454 Kisam- Nala Latitude- 22° 15'41.36" N to 22° 15' 45.16" N and Longitude- 84° 06' 35.14" E to 84° 06' 41.11" E	SH24	1	1	0.32	Black Topped	Black Topped	Govt	MOUZA- Damkuda,SH24
O1	DUMANGDIRI STONE QUARRY-III,MOUZA-DUMANGDIRI, Khata No-72, Plot No-262, KISSAM-PAHAD, Latitude- 22° 22' 08.86" N to 22° 22' 27.05" N and Longitude- 84° 47' 58.65" E to 84°48' 22.14" E	NH143	2	7	8.14	Black Topped	Black Topped	Govt	MOUZA- Dumangdiri,NH143
O2	DUMANGDIRI STONE QUARRY-IV,MOUZA-DUMANGDIRI, Khata No-72, Plot No-663, KISSAM-TUNGURI, Latitude- 22°21'39.69" to 22°21'26.69" and Longitude- 84°48'43.88" to 84°48'29.91"	NH143	1		9.37	Black Topped	Black Topped	Govt	MOUZA- Dumangdiri,NH143
O3	BESRAPADA - KUDABEDA STONE QUARRY,AT-BESRAPADA, Khata No-40, Plot No-16,17 Kissam-Patharbani,Area-2.67 2-Khata No-94, Plot No-579,428/1675,Kissam-Patit, Area-25.79	NH143	4		2.89	Black Topped	Black Topped	Govt	MOUZA- Besrapada,NH143

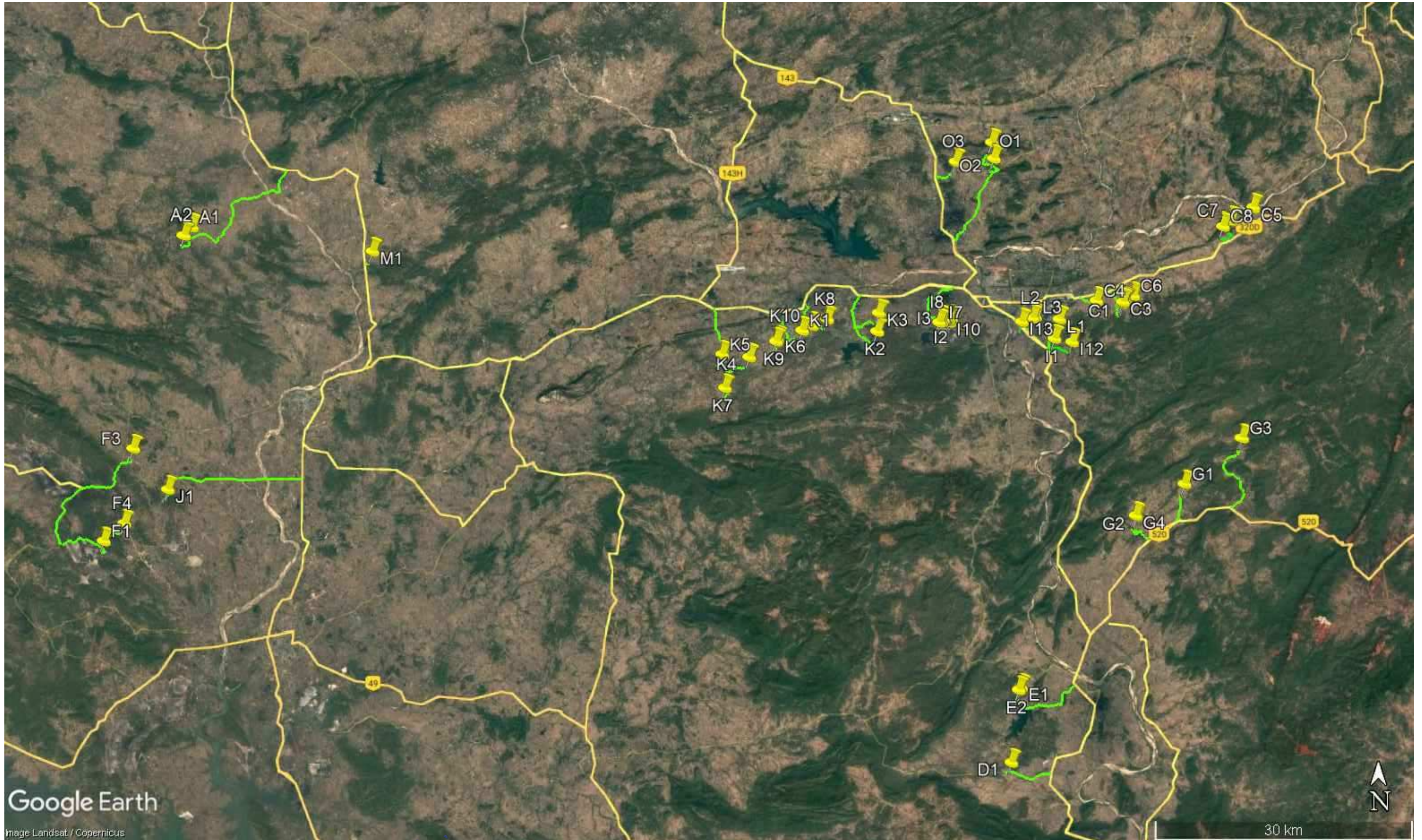
Cluster No.	Transportation Route No.	Number of tippers/day of cluster	Number of tippers/day of all the cluster on route	Length of route in KM	Type of road (Black Topped/ unpaved)	Recommendation for road (Black Topped/ unpaved)	The road will be Constructed by Govt/Lease Owner	Route Map & Location
1	NH320D	2	6	3.31	Black Topped	Black Topped	Govt	Mouza-Kudarbahal,NH320D
	NH320D	2		3.93	Black Topped	Black Topped	Govt	Mouza-Kudarbahal,NH320D
	NH320D	2		3.6	Black Topped	Black Topped	Govt	MOUZA-KUDARBAHAL, NH320D
2	NH143	1	3	8.74	Black Topped	Black Topped	Govt	Mouza-San-Musaposh,NH143
	NH143	2		8.81	Black Topped	Black Topped	Govt	Mouza-San-Musaposh,NH143
3	NH49	4	5	25.33	Black Topped	Black Topped	Govt	Mouza-Sarbahal,NH49
	NH49	1		27.05	Black Topped	Black Topped	Govt	Mouza-Sarbahal,NH49

4	NH520	1	2	4.7	Black Topped	Black Topped	Govt	Mouza-Thelakudar,NH520
	NH520	1		4.7	Black Topped	Black Topped	Govt	Mouza-Thelakudar,NH520
5	SH10	2	21	8.61	Black Topped	Black Topped	Govt	MOUZA-BALANDA,SH10
	SH10	2		8.7	Black Topped	Black Topped	Govt	MOUZA-BALANDA,SH10
	SH10	2		8.61	Black Topped	Black Topped	Govt	MOUZA-BALANDA,SH10
	SH10	2		8.8	Black Topped	Black Topped	Govt	MOUZA-BALANDA,SH10
	SH10	2		8.64	Black Topped	Black Topped	Govt	MOUZA-BALANDA,SH10
	SH10	2		8.8	Black Topped	Black Topped	Govt	MOUZA-BALANDA,SH10
	SH10	3		8.9	Black Topped	Black Topped	Govt	MOUZA-BALANDA,SH10
	SH10	2		8.61	Black Topped	Black Topped	Govt	MOUZA-BALANDA,SH10
	SH10	2		8.73	Black Topped	Black Topped	Govt	MOUZA-BALANDA,SH10
	SH10	2		8.7	Black Topped	Black Topped	Govt	MOUZA-BALANDA,SH10
6	SH10	2	3	6.34	Black Topped	Black Topped	Govt	MOUZA-jorumal,SH10
	SH10	1		6.34	Black Topped	Black Topped	Govt	MOUZA-Jorumal,SH10
7	NH143	1	3	0.39	Black Topped	Black Topped	Govt	MOUZA-Jharabahal,NH143
	NH143	2		0.4	Black Topped	Black Topped	Govt	MOUZA-Jharabahal,NH143


 Mining Officer-Cum-Comperent, Authority
 Sundargarh


 Deputy Director Mines
 Rourkela

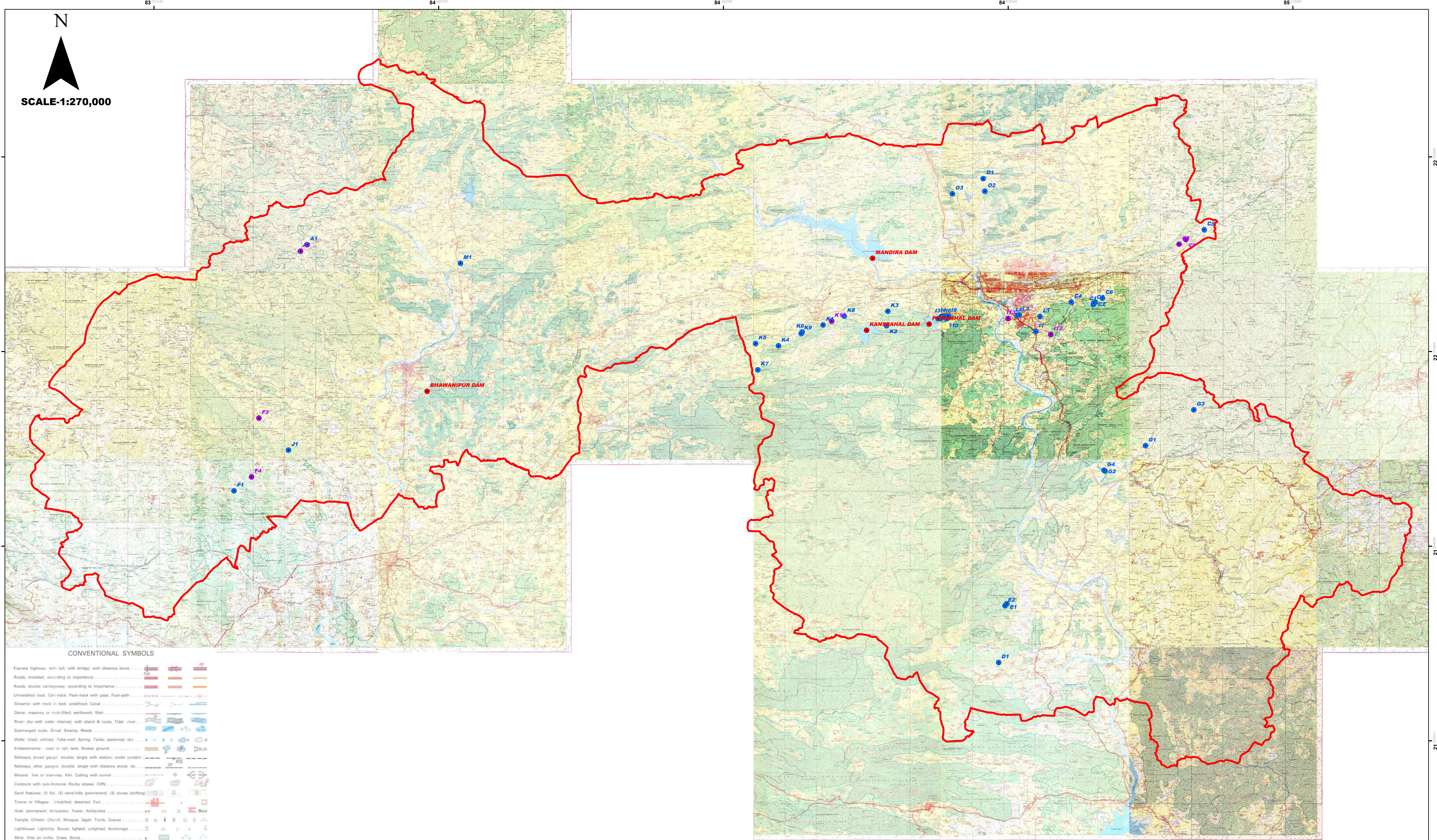
TRANSPORTING ROUTE MAP (STONE)



Narain
Deputy Director Mines
Rourkela

Dulhan
COLLECTOR
SUNDARGARH

N
SCALE-1:270,000



CONVENTIONAL SYMBOLS

Express highway: with toll; with bridge; with distance stone	
Roads, metalled: according to importance	
Roads, double carriageway: according to importance	
Unmetalled road: Cart-track; Pack-track with pass; Foot-path	
Streams: with track in bed; undefined; Canal	
Dams: masonry or rock-filled; earthwork; Weir	
River: dry with water channel; with island & rocks; Tidal river	
Submerged rocks; Shoal; Swamp; Reeds	
Wells: lined; unlined; Tube-well; Spring; Tanks; perennial; dry	
Embankments: road or rail; tank; Broken ground	
Railways, broad gauge: double; single with station; under constn	
Railways, other gauge: double; single with distance stone; do	
Mineral line or tramway; Kite; Cutting with tunnel	
Contours with sub-features: Rocky slopes; Cliffs	
Sand features: (1) flat; (2) sand-hills (permanent); (3) dunes (shifting)	
Towns or Villages: inhabited; deserted; Fort	
Huts: permanent; temporary; Tower; Antiquities	
Temple; Chhatri; Church; Mosque; Idgah; Tomb; Graves	
Lighthouse; Lightship; Buoy: lighted; unlighted; Anchorage	
Mine; Vine on trellis; Grass; Scrub	
Palms; palms; other; Plantain; Conifer; Bamboo; Other trees	
Areas: cultivated; wooded; Surveyed tree	
Boundary, international	
state: demarcated; undemarcated	
district: subdivision; tahsil or taluk; forest	
Boundary pillars: surveyed; unlocated	
Heights triangulated: station; point; approximate	
Bench-mark: geodetic; tertiary; canal	
Post office; Telegraph office; Overhead tank	
Rest house or inspection bungalow; Circuit house; Police station	
Camping ground; Forest: reserved; protected	
Spaced names: administrative; locality or tribal	
Hospital; Dispensary; Veterinary; Hospital / Dispensary	
Aerodrome; Helipad; Tourist site	
Power line: with pylons surveyed; with poles unsurveyed	

LEGEND

	DAM
	EXISTING_STONE_SOURCES
	NEW_STONE_SOURCES
	DISTRICT_BOUNDARY


Certification regarding preparation of DSR


This District Survey Report for all Minor Minerals & Minor Minerals Specified in respect of Sundargarh District is in accordance with Appendix-X, (I)- for River Sand & (II) for other than River Sand of S.O 3611 (E) dt. 25.07.2018 of Monitoring Guideline for Sand Mining-2020 and in compliance with the orders of Hon'ble Supreme Court dt.10.11.2021 in connection with C.A Nos.3661-3662 of 2020 Before Preparation of all District Survey report of all minor minerals, Field Verification has been conducted by the Sub- Divisional Committees consisting of Sub-divisional Magistrate, Officers from Irrigation Department, State Pollution Control Board, Forest Department, Geology Department & Mining Officer. The DSR is being submitted to SEIAA, Odish, and Bhubaneswar for necessary evaluation and approval.


Sub-Collector, Panposh.


Sub-Collector, Bonai.


Sub-Collector, Sadar.


Geologist
from O/o Joint Director Geology,


Executive Engineer irrigation/
Water Resources Department.
• Panposh


Executive Engineer irrigation/
Water Resources Department
Sundargarh



RO, SPCB,
Sundargarh



Divisional Forest officer/
Assistant Conservator of Forest (ACF)
Panposh *


Divisional Forest officer/
Assistant Conservator of Forest (ACF)
Bonai


Divisional Forest officer/
Assistant Conservator of Forest (ACF)
Sundargarh


Deputy Director Mines,
Rourkela


Mining Officer cum-Competent Authority,
Sundargarh, District.


COLLECTOR, SUNDARGARH

Minutes of meeting held in the Office chamber of Sub-Collector-cum-Chairman, Panposh sub-division for District Survey Report(DSR) on dated 29.01.2025 at 10.00 A.M. for finalisation of District Survey Report DSR for Minor Minerals & Specified Minor Minerals of Sundargarh District.

In pursuance to letter No.10684/SM dated 25.10.2023 of the Steel & Mines Department, Odisha, a meeting held in the Office of the Sub-Collector-cum- Chairman, Sadar, Sundargarh for District Survey Report (DSR) on Dt.22.04.2024 for preparation of District Survey Report for Minor Minerals including Specified Minor Minerals) of Panposh sub-division of Sundargarh District. Regarding finalization of District Survey Report.this meeting was held on Dt. 29.01.2025.

The Deputy Director of Mines welcomed all members official present in the meeting and initiated the meeting with brief objective and importance for early finalization of DSR for joint field visit of the members/representative of the Committee of Panposh sub-division of the District. Members present in the Sub-Divisional Committee meeting held on 29.01.2025 is annexed herewith.

The Mining Officer-cum-Competent Authority, Panposh, Rourkela requested all the members/representative of the committee fixing date for joint field visit to the areas i.e. existing/new and proposal for extincted areas to be examined on spot visit vide letter No.42/Mines, Dt.31.01.2025.

The DDM, Rourkela apprised the Committee that DSR will expire on 28.02.2025 & finalisation of the DSR which is time consuming process involves the field verification and survey of entire sairat sources of the district, Generation numbers of datas and incorporation same of the line of MoEF, Govt. of India vide Notification No.3611(E) dated 25.07.2018 and 141(E) dated 15.01.2016 intimated in the earlier proceeding of the Committee meeting held on Dt.22.04.2024.

The joint field visit on Dt.31.01.2025 to different new proposed sources and proposed extinction sanction sources in respect of Panposh Sub-Division of the District for finalization of District Survey Report (DSR) prepared for each Minor Mineral in the district (Copies of Sand, Stone, Earth,& Morrur sources including Specified Minor Mineral i.e. Quartz & Quartzite) is enclosed herewith separately and it shall be placed in the public domain by keeping its copy of Collectorate and posting it on District's website for 30(thirty)days.



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The comments received shall be considered and if found fit, shall be incorporated in the final report. The DSR shall form the basis for application for environmental clearance, preparation of reports and appraisal of projects. The Report shall be updated once in every five years.

The meeting ended with vote of thanks to the Chair.



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Members present in the Sub Divisional Committee Joint field visit on Dt. 31.01.2025 to different new proposed sources and proposed extinction sources in respect of panposh Sub- Division under Sundargarh District for finalization of District Survey report (DSR).

Sl No.	Committee Member	Designation	Signature
1	Sub- Collector- Cum- Sub-Divisional Magistrate, Panposh	Chairman	
2	Executive Engineer or his representative from irrigation/ Water Resources Department	Member	 31-01-25
3	Regional Officer of State Pollution Control Board of concerned District	Member Assistant Env. Engineer	 31/01/2025 Asst. Env. Engineer State Pollution Control Board
4	Divisional Forest officer/ Assistant Conservator of Forest (ACF)	Member	 31.01.25. Asst. Conservator of Forests Rourkela Forest Division
5	Deputy Director Mines (Minor Mineral/Specified Minor Mineral)	Member	 Deputy Director Mines Rourkela
6	Geologist from O/o Joint Director Geology of concerned Zone/ Directorate of Mines & Geology	Member	 Deputy Director Mines Rourkela
7	Mining Officer, Minor Mineral of concerned District/Sub-Division	Member convenor	 31/01/2025 Mining Officer - Joint Competent Authority Rourkela
8	Assistant Environmental Scientist State Pollution Control Board, Regional office, Rourkela		 31/01/25 Sri Soumya Kanjan Pradhan Assistant Environmental Scientist State Pollution Control Board, Odisha Regional Office, Rourkela
9	Assistant collector, o/o the Rourkela		
10	Sub- collector, Panposh		 31/01/25 Assistant Collector O/o. the Sub-Collector Panposh
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The comments received shall be considered and if found fit, shall be incorporated in the final report. The DSR shall form the basis for application for environmental clearance, preparation of reports and appraisal of projects. The Report shall be updated once in every five years.

The meeting ended with vote of thanks to the Chair.

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17/02/25
Sub-Collector-cum-Chairman, (DSR), Bonai,
Sundargarh.

**Sub-Collector
Bonai**



Member present in the Sub Divisional Committee meeting on dated 28-01-25 at 4.30 P.M. in the office of the Sub-Collector-Cum-Sub-Divisional Magistrate, Bonai, Sub-Division for finalization of District Survey report (DSR) on Minor Minerals & Specified Minor Minerals .

Sl No.	Committee Member	Designation	Signature	Mobile No	E-Mail ID
1	Sub- Collector- Cum- Sub-Divisional Magistrate, Bonai	Chairman	<i>Alkay</i> 28/01/25		
2	Executive Engineer or his representative from irrigation/ Water Resources Department	Member	<i>Seey</i> 28/01/25 A.F.E	9937139357	
3	Regional Officer of State Pollution Control Board of concerned District	Member			
4	Divisional Forest officer/Assistant Conservator of Forest (ACF)	Member	<i>Jaganath R.</i> 28.01.25	9438040206 7978720550	
5	Deputy Director Mines (Minor Mineral/Specified Minor Mineral)	Member	<i>Neel</i> 28/1/25	9437111789 9438918510	
6	Geologist from O/o Joint Director Geology of concerned Zone/ Directorate of Mines & Geology	Member			
7	Mining Officer, Minor Mineral of concerned District/Sub-Division	Member convenor	<i>[Signature]</i> 28/01/2025	9658869688.	
8	<i>Pritam Kumar Pati, Regional office Raurekela, SPCB Odisha</i>	Assistant Environmental Engineer	<i>PK Pati</i> 28/01/2025	8117833611	} Representative of ROSPC Raurekela
9	<i>Soumya Ranjan Pradhan, Regional office, Raurekela State Pollution Control Board.</i>	Assistant Environmental Scientist	<i>[Signature]</i> 28-01-25	6371093019	
10	<i>Soumya Ranjan Pradhan AeF Rk</i>	AeF Rk	<i>[Signature]</i> 28-01-25	7978954291	
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Minutes of meeting held in the Office chamber of Sub-Collector-cum-Chairman, Sadar sub-division for District Survey Report(DSR) on dated 29.01.2025 at 3.30 P.M. for finalisation of District Survey Report DSR for Minor Minerals & Specified Minor Minerals of Sundargarh District.

In pursuance to letter No.10684/SM dated 25.10.2023 of the Steel & Mines Department, Odisha, a meeting held in the Office of the Sub-Collector-cum- Chairman, Sadar, Sundargarh for District Survey Report (DSR) on Dt.22.04.2024 for preparation of District Survey Report for Minor Minerals including Specified Minor Minerals) of Sadar sub-division of Sundargarh District. Regarding finalization of District Survey Report this meeting was held on Dt. 29.01.2025.

The Deputy Director of Mines welcomed all members official present in the meeting and initiated the meeting with brief objective and importance for early finalization of DSR for joint field visit of the members/representative of the Committee of Sadar sub-division of the District. Members present in the Sub-Divisional Committee meeting held on 29.01.2025 is annexed herewith.

The Mining Officer-cum-Competent Authority, Sadar, Sundargarh requested all the members/representative of the committee fixing date for joint field visit to the areas i.e. existing/new and proposal for extincted areas to be examined on spot visit vide letter No.24/Mines, Dt.01.02.2025.

The DDM, Rourkela apprised the Committee that DSR will expire on 28.02.2025 & finalisation of the DSR which is time consuming process involves the field verification and survey of entire sairat sources of the district, Generation numbers of datas and incorporation same of the line of MoEF, Govt. of India vide Notification No.3611(E) dated 25.07.2018 and 141(E) dated 15.01.2016 intimated in the earlier proceeding of the Committee meeting held on Dt.22.04.2024.

The joint field visit on Dt.05.02.2025 to different new proposed sources and proposed extinction sanction sources in respect of Sadar Sub-Division of the District for finalization of District Survey Report (DSR) prepared for each Minor Mineral in the district (Copies of Sand, Stone, Earth,& Morrum sources including Specified Minor Mineral i.e. Quartz, Quartzite & Silica Sand) is enclosed herewith separately and it shall be placed in the public domain by keeping its copy of Collectorate and posting it on District's website for 30(thirty)days.

The comments received shall be considered and if found fit, shall be incorporated in the final report. The DSR shall form the basis for application for environmental clearance, preparation of reports and appraisal of projects. The Report shall be updated once in every five years.

The meeting ended with vote of thanks to the Chair.



Sub-Collector-cum-Chairman, (DSR), Sadar, Sundargarh

Sub-Collector, Sadar, Sundargarh

Members present in the Sub Divisional Committee Joint field visit on Dt. 05.02.2025 to different new proposed sources and proposed extinction sources in respect of Sadar Sub- Division under Sundargarh District for finalization of District Survey report (DSR).

Sl NO.	Committee Member	Designation	Signature
1	Sub- Collector- Cum- Sub-Divisional Magistrate, Sadar	Chairman	<i>[Signature]</i>
2	Executive Engineer or his representative from irrigation/ Water Resources Department	Member	<i>[Signature]</i> 06/02/2025 Junior Engineer, Section-I Sundargarh Irrigation Sub-Division Sundargarh
3	Regional Officer of State Pollution Control Board of concerned District	Member	<i>[Signature]</i> 06-02-25
4	Divisional Forest officer/Assistant Conservator of Forest (ACF)	Member	<i>[Signature]</i> 06/02/2025 Sundargarh Division Deputy Director Mines Rourkela
5	Deputy Director Mines (Minor Mineral/Specified Minor Mineral)	Member	<i>[Signature]</i> 06/02/2025 Mining Under-Secretary Sundargarh
6	Geologist from O/o Joint Director Geology of concerned Zone/ Directorate of Mines & Geology	Member	<i>[Signature]</i> 06/02/2025 AEE
7	Mining Officer, Minor Mineral of concerned District/Sub-Division	Member convenor	<i>[Signature]</i> 06-02-25 R.O. Gopal Pan.
8	Regional office SPCB, Jharsuguda		
9	Forest- Dist.		
10	Regional office, SPCB Rourkela	Assistant Env. Engineer	<i>[Signature]</i> 06/02/2025 Asst. Env. Engineer State Pollution Control Board Odisha
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