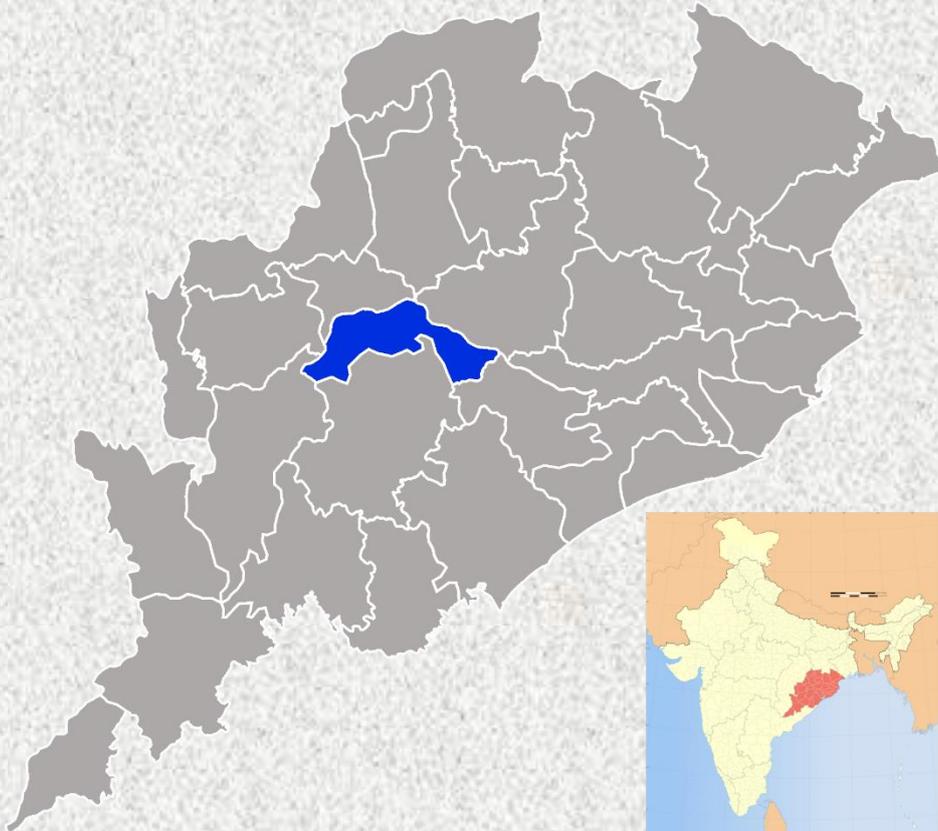




DISTRICT SURVEY REPORT (DSR) OF BOUDH DISTRICT, ODISHA FOR ROAD METAL/BUILDING STONE / BLACK STONE MINING

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, BOUDH
AUGUST-2025**

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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 stone mining locations, future potential areas and overview of 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.

An administrative District of Odisha in eastern India, Boudh District is also known as Baudha District. The District is bounded by River Mahanadi & Angul District to the north, Kandhamal District to the south, Nayagarh District to the east and River Tel & Subarnapur District to the west. Covering a geographical area of 3444.8 sq km, the District lies 20 degree 22' to 20 degree 50' North Latitude and 83 degree 34' to 84 degree 49' East Longitude.

Majority of the land area of Boudh district is under gross crop area i.e. 1,36,000 hectares (as per Statistical records 2012) and forest area covers 94,952.11 hectares. The district is well connected with other districts. The bounties of nature has endowed the district with rich forest abound in Sal, Sisal, Bija, Asana, Mahua flower trees etc. Forest produce of economic importance of the district mainly consists of Kendu Leaf, Tamarind, Mahua Flower and Seeds, Sal Seeds etc. tigers, elephants and spotted dears are the wild animal species residing in Boudh district. Collection of minor forest produce is the major source of livelihood of the people in the district. There is a crocodile sanctuary namely Satkosia Ganda at Tikarpada that attracts tourists from far places.

The climatic condition of Boudh is much varied. The district comes under the ambit of Western Central Table Land characterized by hot and moist sub-humid climate. It has mainly 4 seasons. The summer season is from March to Mid-June, the period from Mid-June to September is the Rainy season, October and November constitute the post monsoon season and winter is from December to February. The best time to visit this district is during winter.

02. OVERVIEW OF MINING ACTIVITY IN THE DISTRICT.

Mining activity for minor minerals in Boudh district, Odisha primarily involves the extraction of river sand, road metal and stone quarry, with formal regulation guided by District Survey Reports (DSRs) guideline. While several leases have been granted, especially for road metal and sand, past licenses for minerals like quartz have mostly expired. Lime Stone, Graphite and Quartz, which are found in Harabhangra and Boudh Blocks. But the commercial Production/exploitation of these minerals are not Viable.

Recent state-level directives in 2025 have pushed for stricter enforcement against illegal mining and unregulated transport, reflecting growing concerns over unauthorized extraction and revenue losses. Environmental safeguards such as site rehabilitation and dust control are included in planning documents, though actual implementation on the ground remains limited. Overall, while Boudh has a formal minor mineral framework in place, challenges persist in enforcement and sustainable operations.

03. GENERAL PROFILE OF THE DISTRICT.

a. Geographical position: Longitude -83°34' to 84°49' E
Latitude- 20° 22' to 20°50' N

b. Area & Population: -

The district has an area of 3098sq.kms, per the demography is concerned, the District has got total population of 441162 people with sex ratio 991 Females per 1000 Males (2011 Census), including total 221625 male population and 219537 female population. It ranks Boudh is 22nd in size and 29th in population among the thirty districts of Odisha. Total SC population of the District is 104934 and ST population is 55364 as per census data.

c. Climate: -

There is a meteorological observatory in the district. The data of this observatory may be taken as representative of the meteorological condition of the whole district. The month of May as the hottest month reach to a daily maximum temperature of 44 degree Celsius. In association with the passage of western disturbances across north India during winter months, short spells of cold occur and the temperature drops down to 10 degree Celsius. The average annual rainfall of the district is varying from 1256.4 mm to 1675.06 mm.

However, there is a great variation of rainfall from year to year.

d. Economy:

The economy of Boudh district is supported both by agriculture and small-scale industries.

Economy of Boudh district is primarily agrarian in nature. Fisheries and animal husbandry also contribute greatly to the economy. Small scales industries are also a booming sector in the economic scenario of Boudh district especially the textiles and mining industries. Paddy is the principle crop and is grown in about 75% of the total cultivated land area. The different irrigation projects include Salki Medium Irrigation project, Minor Irrigation project, Lift Irrigation project, Diversion weir, Dug well and others.

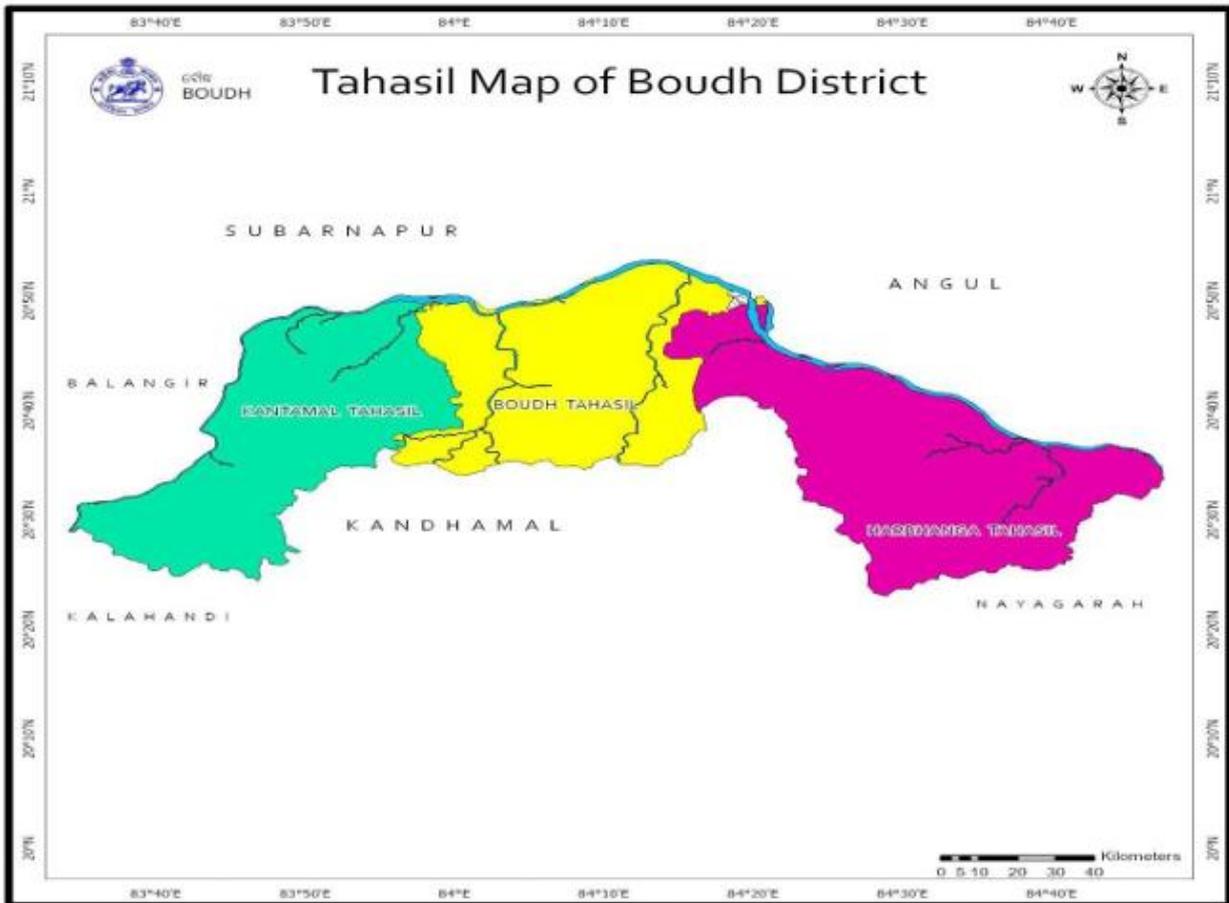
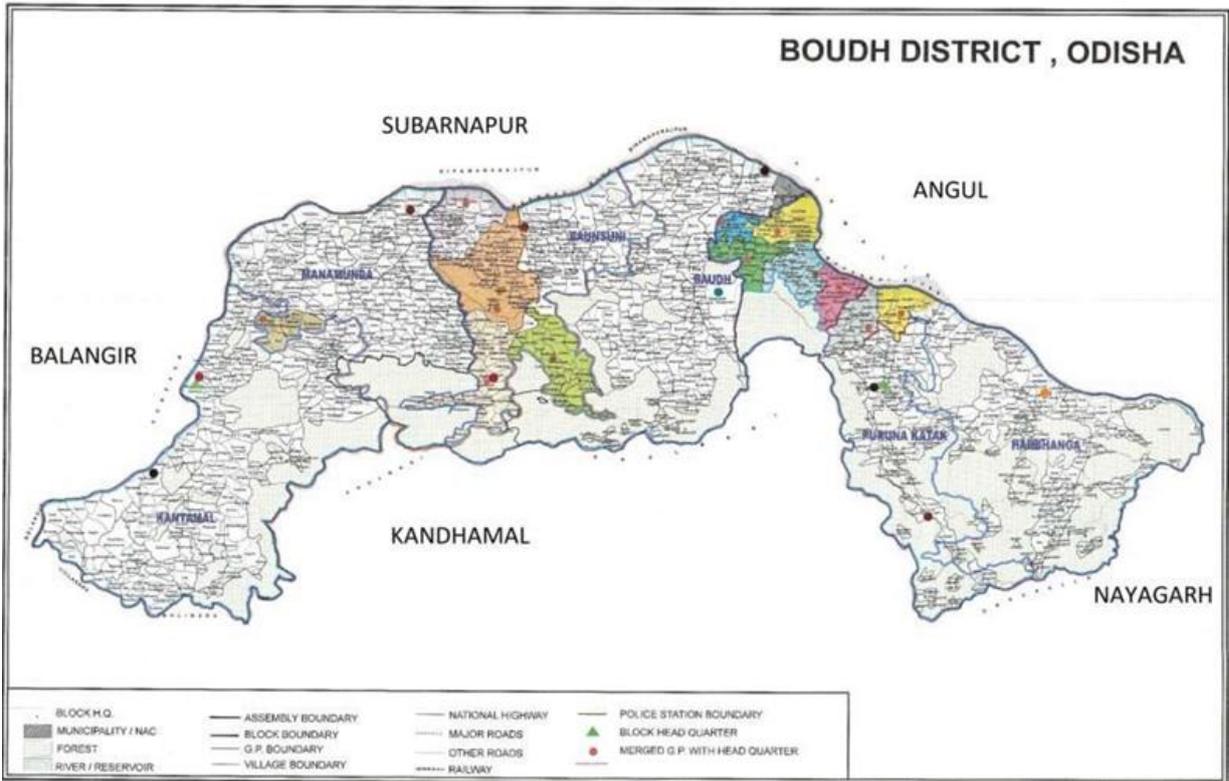
Fisheries are a huge profit-making sector of Boudh district. Available water resources have helped to enhance the growth of pisciculture in the district. Boudh fish farm is one of the good breeding and rearing government farm of the state of Odisha, having 8.5 acre of water area comprising 4.80 acre of breeder tanks and 3.70-acre nursery tanks. FFDA (fish farmers development agency) has been set up at Boudh district to popularize fish culture as an alternative way of employment generation and

eradication of poverty. The institution provides training to the selected beneficiaries, assists in construction and renovation water resources, arrange credit from nationalized banks. The most important gain from FFDA is that aquaculture as a commercially gainful activity has been fully established.

Animal husbandry is an indispensable part of Boudh district's economic system. The prime objective of this sector is to boost the production of milk, egg and meat by adopting modern scientific method. To improve the socio-economic condition by providing self-employment opportunities to unemployed youth and to raise the family income is also an important part of their agenda. More than 75% of the rural households' own livestock and earn their supplementary income. Livestock production is an essential part of the rural livelihood systems. Livestock production takes place in millions of small holders, scattered throughout Boudh District. Improvement in livestock production is an important alley for increasing the income of marginal and small farmers and landless labourers, for the uncertainties of crop production. Animal health care service, breeding service, feed and fodder development, and marketing facilities are among the services provided by this sector.

e. Demography: -

description	Value
Area	3098 sq.km
Area under forest	128.00 sq.km 4.13 %
No. of Sub-Division	1
No. of Block	3
Assembly Constituencies	2
No. of Police Station	6
No. of Tahasils	3
No. of Gram Panchayats	63
No. of NACs	1
No. of Revenue Villages	1187



f. Industry:

Industries are an upcoming sector to boost the economy of Boudh district. Small scale industries of boudh district include food-based industries, chemical based industries, engineering based industries, textile-based industries, forest-based industries and metallurgical based industries. The mining industry is quite a profit-making industry.

g. Culture & Heritage:

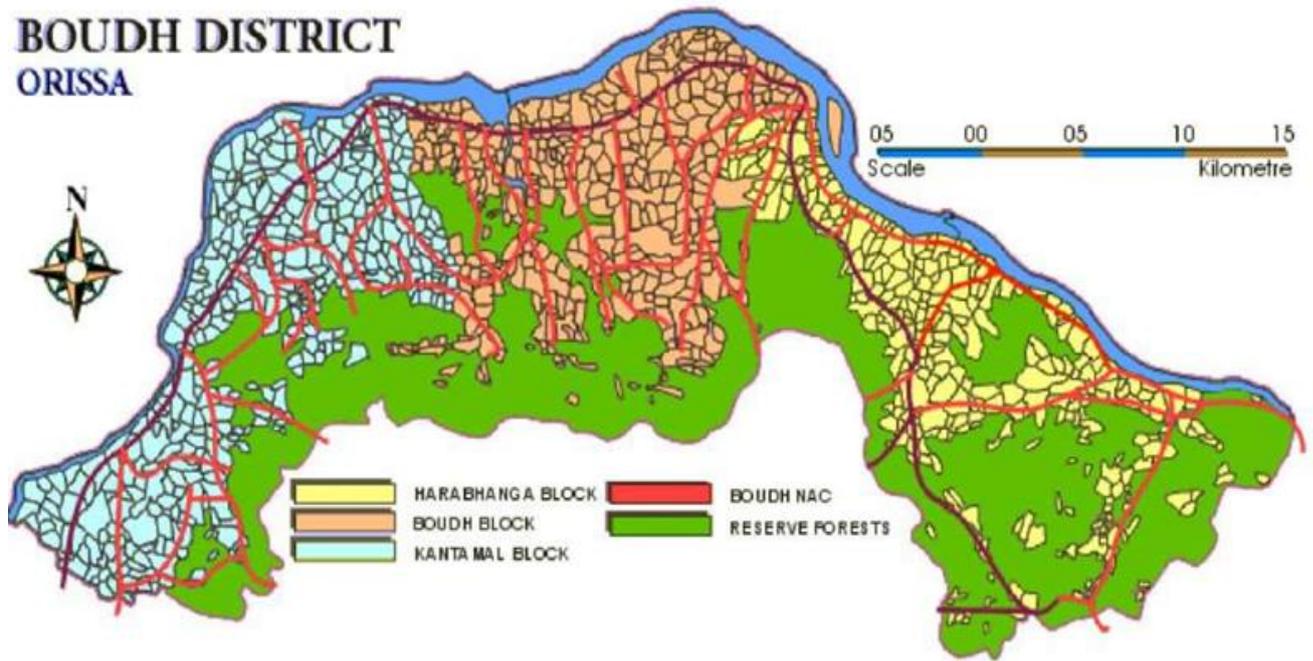
There are many festivals in the Boudh District that are celebrated by total population of Boudh with great enthusiasm and faith. Festivals like Chuda Khai Jatra, Ratha Yatra, Laxmi Puja, Nuakhai, Shivaratri, Dasahara, Dola Jatra, Puajjuntia and Bhajjuntia, Ramaleela, Kailashi Jatra, Christmas, Id-Ul-Fitre are the important festivals of the District.

h. Tourist places:

Boudh is known for its century-old temples, ancient Buddha statues and caves. With the spread of saivism, Vaishnavism and numbers of other culture numerous shrines dedicated to various deities were found in this region. There are three remarkable Buddha statues in Boudh town and around, Ramnath Temple, Hanuman Temple, Madan Mohan Temple Jogindra villa places considered tourist places of district.

- (i) Chari Sambhu Temple, Jagati
- (ii) Bhairabi Mandir, Purunakatak
- (iii) Marjakuda Island
- (iv) Shyamsundarpur
- (v) Bagha Dam, Sagada
- (vi) Salnki Dam
- (vii) Hanuman Temple
- (viii) Dambarugada
- (ix) Narayan Nagar & Rajamunda
- (x) Rameswar Temple
- (xi) Padmatola Forest watch Tower
- (xii) Dedhaswr Bhai Bohu Rock hills, Kantamal

BOUDH DISTRICT ORISSA

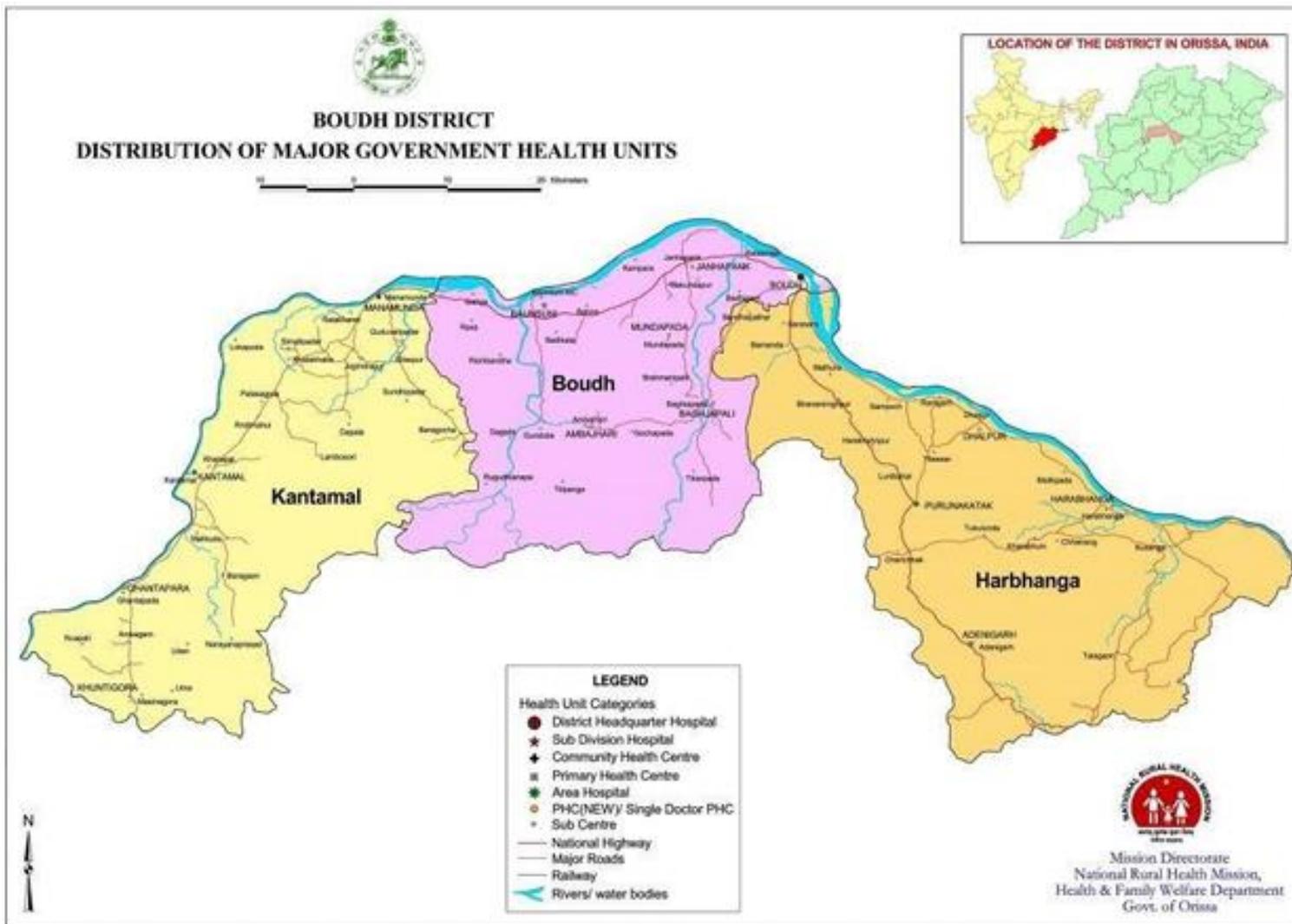


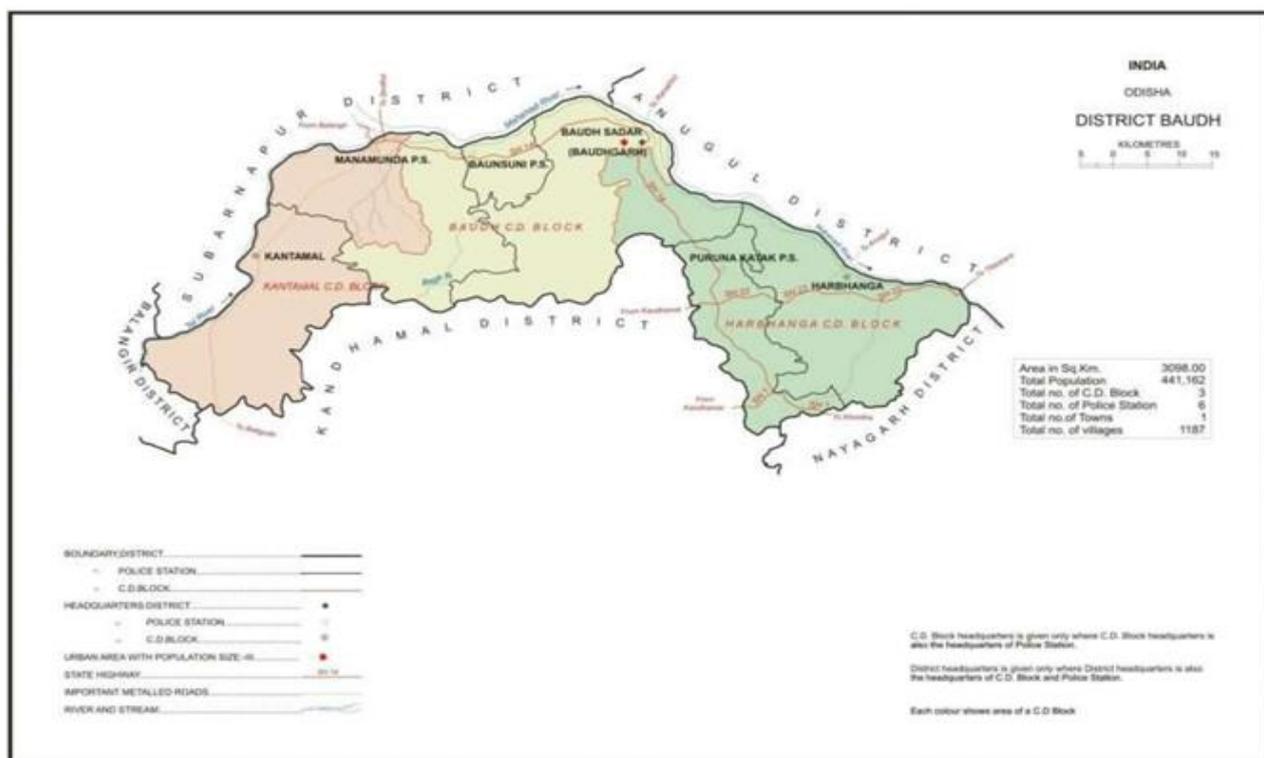
j. Education:

The District Education Office, Addl. District Education Officer, and the Block Education Officers Boudh look after the General Administration of schools under school and Mass education Department in Boudh District. The DPC looks after the Elementary Education of Boudh District. A number of educational Institutions are established to impart education to the children of this District.

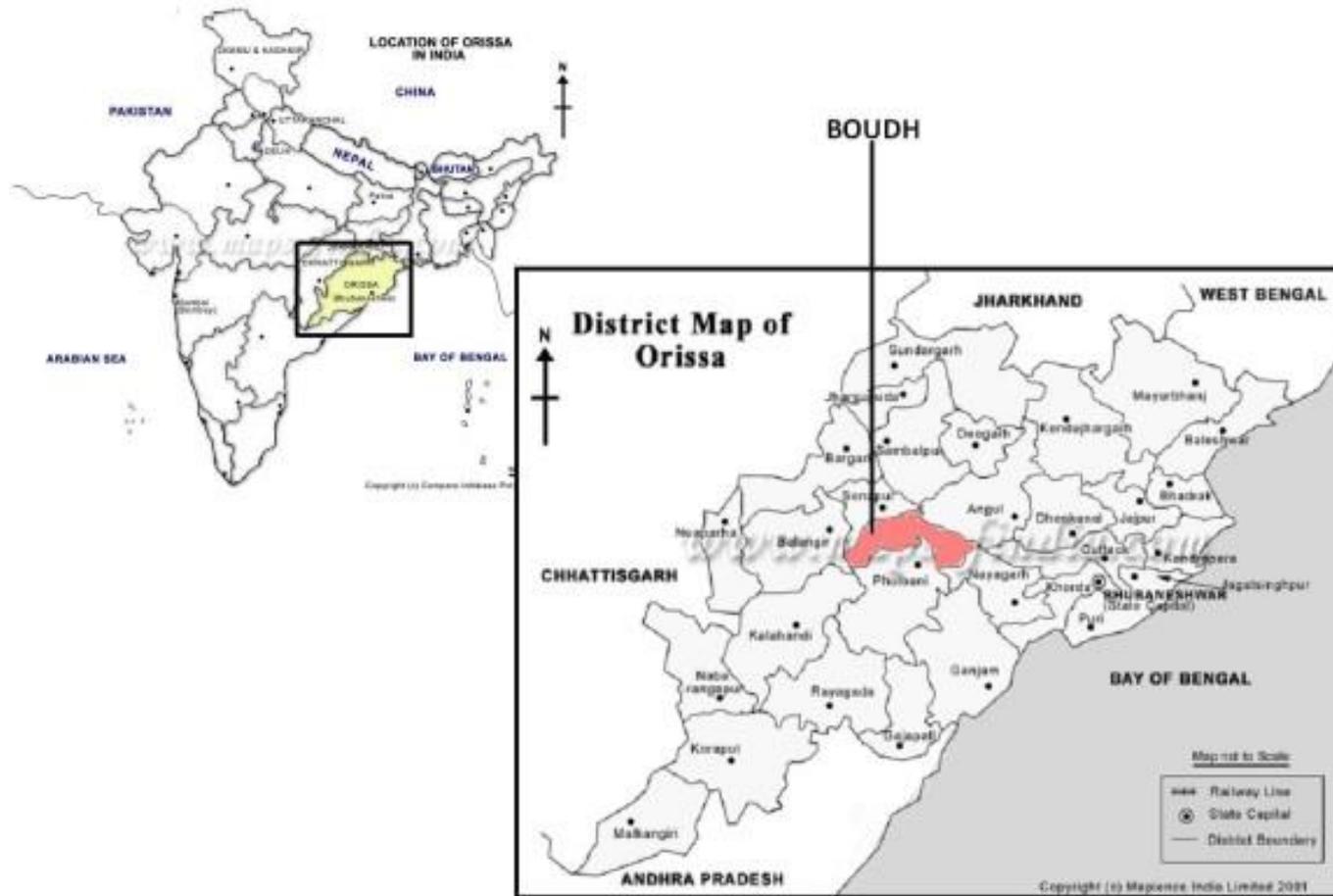
k. Health:

The medical facilities are provided by different agencies like Govt. Private Individuals and voluntary organizations in the district. There are mainly five community health centre such as CHC, Baunsuni, CHC Harabhanga, CHC Kantamal, CHC Manamunda and CHC Purunakatak with its DDH at Boudh.





INDEX MAP



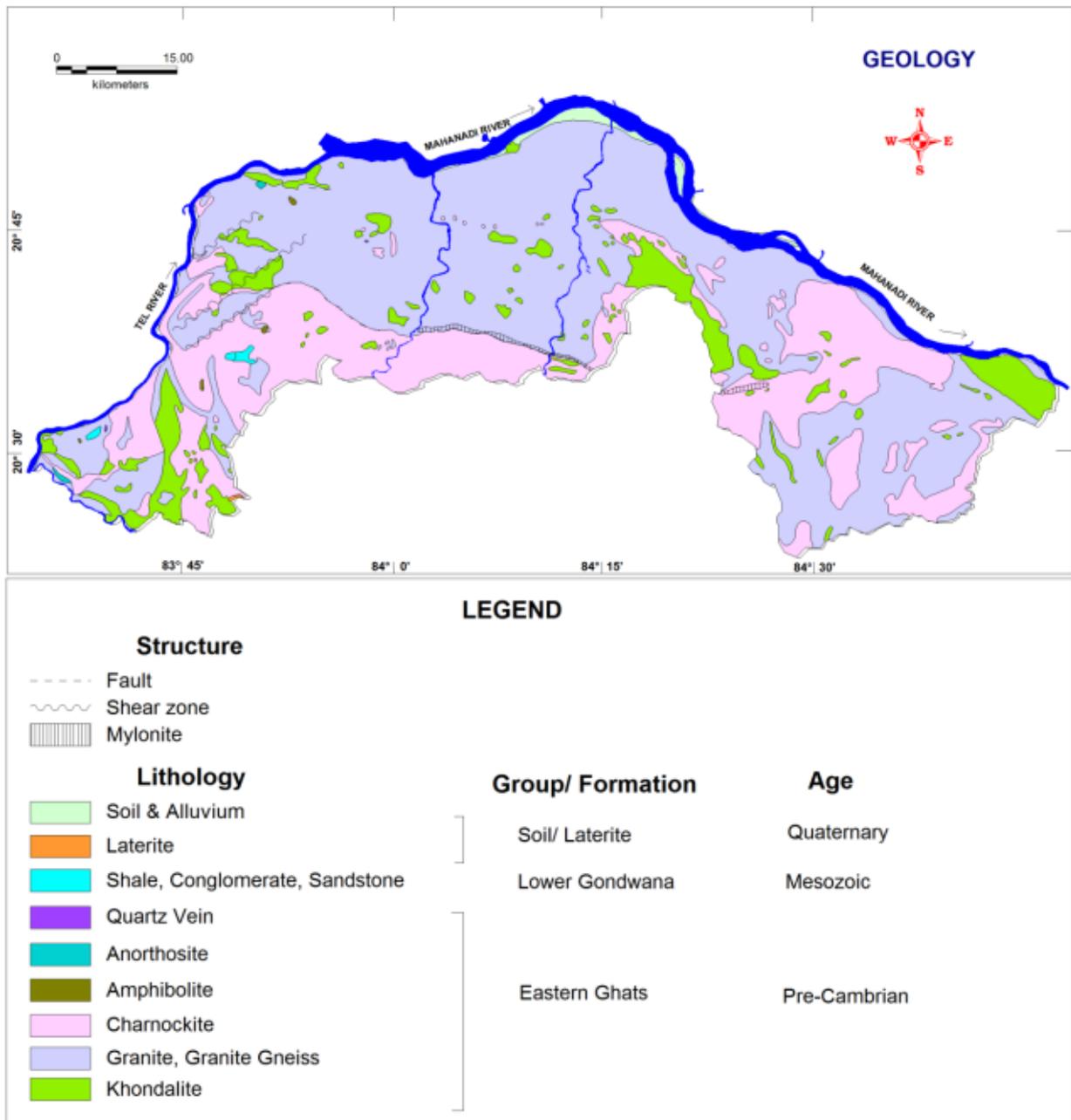
04. GEOLOGY OF THE DISTRICT.

Geologically the area forms part of the Eastern Ghats Super Group and is divided into khondalite group, Charnockite group and migmatite group. The alluvium is of Pleistocene to recent age. Khondalite group of rocks are of metasedimentary origin and represented by quartz garnet-sillimanite schist and gneisses without graphite, sillimanite quartzite and quartz sillimanite sericite schist occurring as enclaves within granite. Occurrences of basic charnockite are very restricted as bands or lensed patches within the granites. Intermediate or acid charnockite are common being distributed throughout the hilly area. Migmatite group comprising eigengenes is, garnetiferous leucogranites are the most abundant rock types of the area. This constitutes high hill ranges at several places towards north and south and smooth rolling topography in the plains. Rocks of lower Gondwana group especially the Talchir formation is exposed in the northern part of the area. The contact between Talchir and older rocks is faulted at places. Pockets of laterites commonly found in khondalite bearing ridges mainly over the hill tops. The laterite exposed in the area is of Cainozoic age. The river beds of the area are covered by recent alluvium.

The general strike of the foliation is WNW-ESE to ENE-WSW through NE-SW and NS. The amount of dip ranges between 500 to sub-vertical. There is one major shear zone near Ranipathar area. Mylonite and silicification occur along this zone at several places. Both vertical as well as inclined joint planes are observed. Numbers of fault planes occur in the area with varieties of strike direction. A number of lineaments are deciphered in this area from LANDSA Timeseries. Two major sets of these lineaments are deciphered running along NW-SE to NNWSSE and NS directions.

Stratigraphy:

Age	Geological Unit		Lithology
Late Holocene		Present day Flood plain deposit	soil / Alluvium
Cainozoic			Laterite / Lateric bauxite Garnetiferous Granite gneiss Leptynite
Archaean	Eastern Ghat Super Group	Charnockite Group	Acid/intermediate, Charnockite Basic Charnockite, Quartz- granet- Sillimanite
		Khondalite Group	Schist/ gneiss, Quartzite Calc silicate

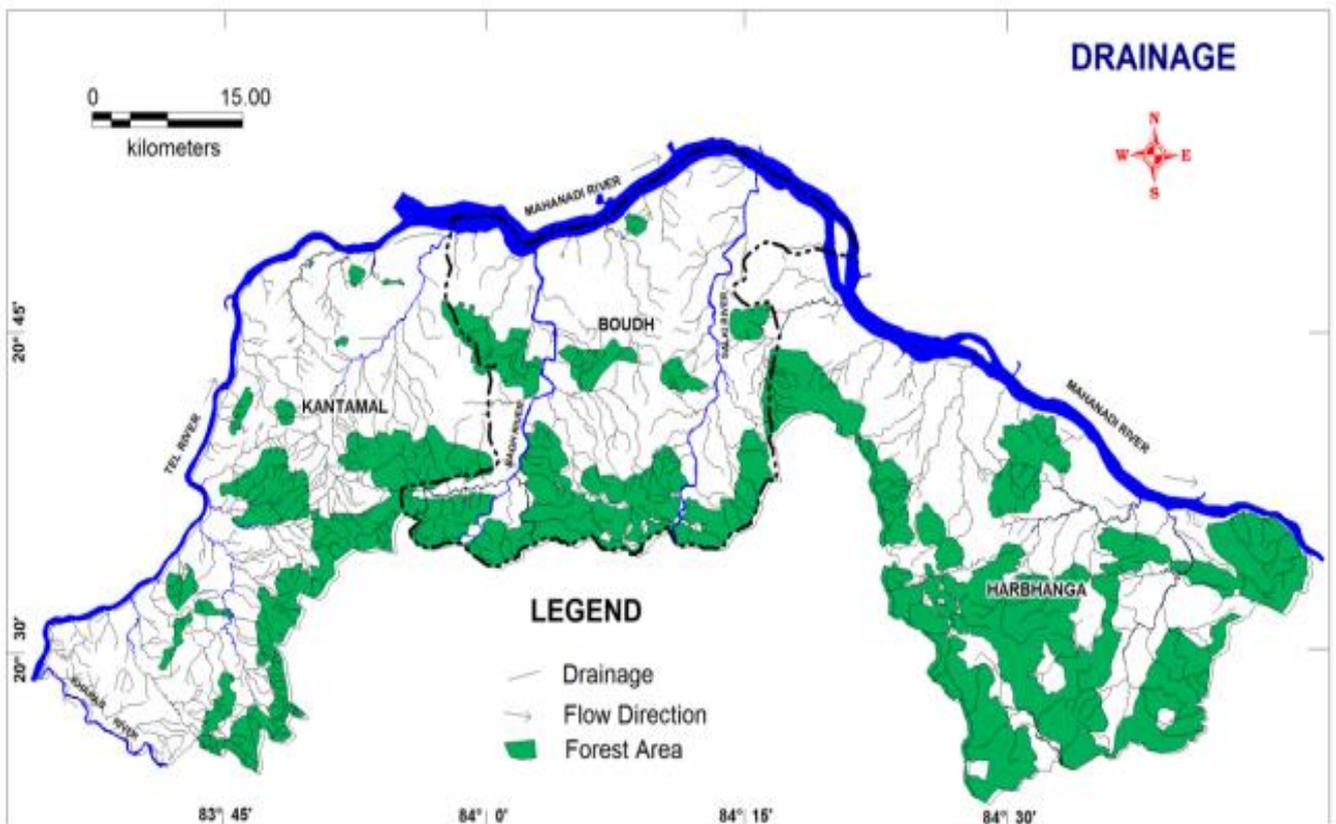


05. DRAINAGE AND IRRIGATION PATTERN.

Boudh district is rich in water resources. A series of check dams have been constructed across various distinct nallahs for in-stream storage, ground water recharge, incidental irrigation during late kharif and Rabi by storing water at the end of monsoon mainly through lifting devices as well as canal flow, irrigation use of water flowing down drainage channels, and other uses like bathing, washing, recreation etc. By the end of July 2019, 861 nos. of Check Dams have been accorded administrative approval. Out of these, 789 nos. of check dams have been completed achieving an ayacut of 4973 Ha., 52 nos of

Check Dams are in progress and 20 nos of Check dams are dropped due to various reasons.

DRAINAGE SYSTEM WITH DESCRIPTION OF MAIN RIVER				
Sl. No	Name of the River	Place of origin	Total length in the district (in km)	Area drained (sq km)
1	Mahanadi River	Chhattisgarh	106	81,196
2	Tel River	Dherapara	66	33,990
3	Salunki Nadi	Saradhapur	42	7,896



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

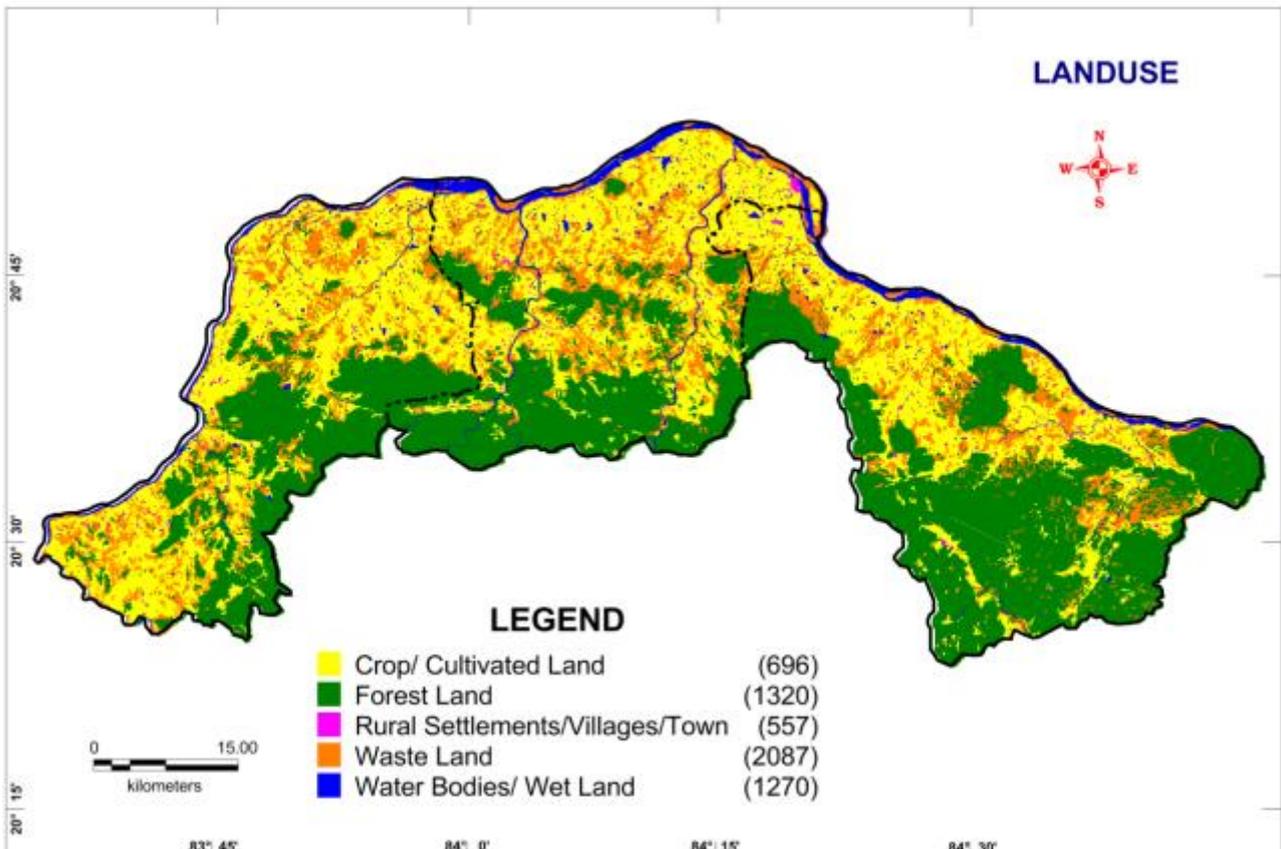
FOREST: -

Land use Pattern

Reserved Forests	92477 Ha.
Proposed Reserved Forests	2475.11 Ha.
Protected Forests	745.4071 Ha.
Undemarcated Protected Forests	24933.62 Ha.
Village Forests	1192.50 Ha.
Un-classed Forests	102.00 Ha.
Revenue Forests	1266.00 Ha.

Yours Sincerely,

[Signature]
18/06/2015
Divisional Forest Officer
Boudh Division



AGRICULTURAL: -

Block wise Base Level Data on Crop Coverage for Kharif Season																																									
Name of Block	Geographical Area (ha)	Cultivable Area (ha)	Cultivated Land (ha)	Permanent Fallow	Irrigated Area (ha)										Crop wise cultivated area (ha)		Cultivated area (ha)				Irrigation Wise Cultivated Area (ha)																				
					Major	Medium	Minor	OLIC	QAIC	Megalift	Others	Total	Crop	Area	High	Medium	Low	Total	Irrigation Potential Created	Irrigation potential Utilised	Non Irrigated																				
Boudh	70829.86	30654.72	32531	4123.72	12039	7819	3251	4903	0	1995	0	30007	Paddy	19850	8017	16679	7835	32531	21290	21290	10022																				
													Mauze	210																											
													Pulses	5290																											
													Oilseeds	520																											
													Millets	350																											
													Fibre Crops	3311																											
													Vegetables	2600																											
													Spices	500																											
													Fodder	100																											
													Total	32531																											
													Harabanga	60599								32158.36	25888	5119.71	6752.5	0	8536.06	5688	80.97	1432.95	0	22490.48	Cereals	15786	11249.71	13247.32	6510.86	31007.89	22490.58	22490.46	6007.25
Pulses	4726																																								
Oilseeds	1012																																								
Fibre Crops	398																																								
Vegetables & Spices	3967																																								
Total	25888																																								
Kantamal	72626	35225.51	28577.63	1110.56	11746.21	1034.99	3735	9673	761.05	0	1126.06	28076.31			Cereals	22947.53	11310.2	4614.86	7632.57	28477.93	28076.31												10032.32	25043.18							
															Pulses	3672.78																									
															Oilseeds	1491.81																									
															Fibre Crops	2771.64																									
															Horticultural Crops	4241.45																									
													Total	35125.51																											

Chief District Agriculture Officer
Boudh
3/6/25

Assistant District Agriculture Officer
Boudh

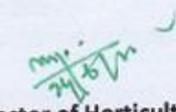
Deputy District Agriculture Officer (DPAO), DPMU
Boudh

Joint Secretary (In-charge) Irrigation Division
Boudh

Additional District Agriculture Officer
Boudh
3/6/25

HORTICULTURAL: -

Land Utilisation Pattern in Boudh District (Figure in Ha)					
Fruit Crops			Spices Crops		
Sl. No.	Name of the Crop	Area covered (in ha)	Sl. No.	Name of the Crop	Area covered (in ha)
1	Guava	144.0	1	Chilli	1372.5
2	Custard Apple	20.0	2	Coriander	428
3	K.Lime	27.7	3	Ginger	99.6
4	Mango	1049.6	4	Turmaric	425
5	Papaya	43.0		Total	2325.1
	Total	1284.3			
Vegetable			Plantation Crops		
Sl. No..	Name of the Crop	Area covered (in ha)	Sl. No.	Name of the Crop	Area covered (in ha)
1	Banana	148.3	1	Cashew	192.6
2	Bitter Gourd	435.5	2	Oil Plam	60.6
3	Brinjal	465.8		Total	253.2
4	Cabbage	290.7			
5	Cauliflower	345.9			
6	Cucumber	280.9			
7	Mushroom				
8	Okra	675.8			
9	Onion	1057.2			
10	Potato	602.4			
11	Pumpkin	560.95			
12	Ridge gourd	235.65			
13	Tomato	585.7			
14	Watermelon	846.8			
	Toatal	6531.6			
			Ornamental Crops		
			Sl. No.	Name of the Crop	Area covered (in ha)
			1	Marigold	60
				Total	60


 Asst. Director of Horticulture,
 Boudh

MINING: -

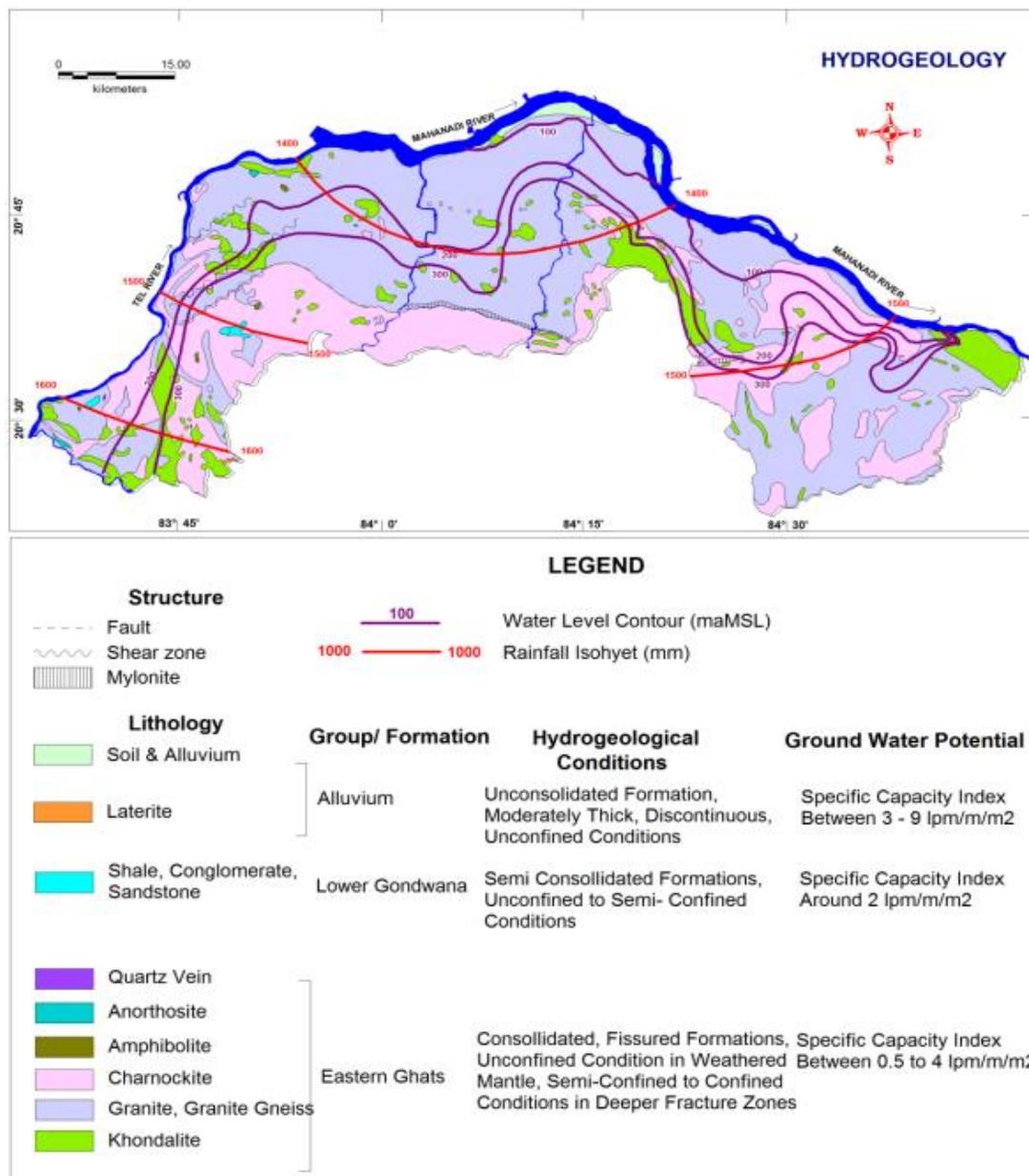
Boudh district in Odisha has both major and minor mineral resources. Major minerals include traces of gold, diamonds, and various gemstones such as topaz, zircon, moonstone, garnet, and tourmaline, mainly found along the Mahanadi and Tel riverbeds and in regions like Ramgarh and Kantamal. While these have been identified through surveys, commercial extraction has not yet been fully developed. The district also has deposits of pegmatite, quartz, graphite, manganese, and clay, some under formal leases. For minor minerals, such the major mining activities are dependent upon river sand and road metal mining.

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

The drainage systems i.e. rivers of the district get filled with water during the monsoon and the gradually it decreases from the month of January to June of each year. In the summer season all rivers become almost dry excepting narrow flow of water within the basin.

The variation of ground water table in the district is as follows:

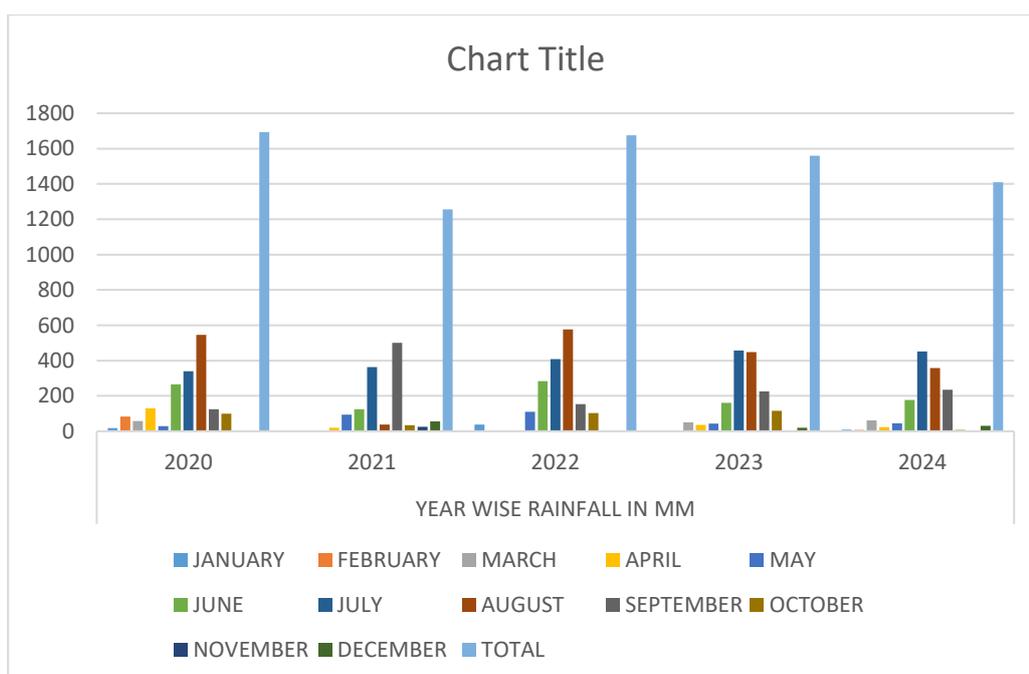
Depth of water level (mbgl)/ Period	April	August	November	January
Minimum	2.15	0.80	1.1	1.65
maximum	12.6	10.40	9.4	11.0



08. RAINFALL OF THE DISTRICT AND CLIMATIC CONDITION.

The climate of the district is typically to sub-tropical with three district seasons e.g. summer, winter and Monsoon. December is the coldest month with mean daily average temperature of 20-degreeCelsius which reaches 42 degree Celsius in May. The rain fall in the area is mostly from the South west monsoon lats from middle of June to October. The average annual rainfall varies from 1256.4 mm to 1675.06 mm.

YEARWISE RAINFALL DATA FOR THE YEAR 2020 TO 2024					
MONTH	YEAR WISE RAINFALL IN MM				
	2020	2021	2022	2023	2024
JANUARY	18.14	0	38.2	0	8.6
FEBRUARY	83.97	0	0.67	0	7.67
MARCH	57.24	0	0	51.31	61.57
APRIL	129.38	20.53	0	35.56	23.27
MAY	28.43	93.96	109.67	43.39	45.17
JUNE	266.26	124.7	284.74	161.1	177.86
JULY	339.63	362.66	408.46	457.16	451.45
AUGUST	546.15	37.4	575.85	448.8	357.35
SEPTEMBER	125.04	500.81	154.26	226.66	234.48
OCTOBER	99.01	34.21	103.21	115.41	7.33
NOVEMBER	0	25.6	0	0	3.57
DECEMBER	0	56.53	0	19.8	31
TOTAL	1693.25	1256.4	1675.06	1559.19	1409.32



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

Sl.No.	Name of the Mineral	Name of the Lessee	Adress & Contact No. of lessee	Mining lease Grant Order No. & date	Area of Mining lease (in Hc)	Period of Mining lease (Initial)		Date of commencement of mining operation	Status (Working Non-Working/Temp p. 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
Name of the District-Boudh											
A.Name of the Tahasil:- Harabhanga											
A1	Kharabhuin Jungle-I stone quarry	Bikash Kumar Agrawalla	Bikash Kumar Agrawalla, At/Po- Harabhanga Dist-Boudh	No-10372001885, Dtd-24.12.2020	2.023	24.12.2020	23.12.2025	24.12.2020	Working	10104/SEIAA Dt.16.12.2020	At:- Kharabhuin, Khata No-2(AJA), Plot No-50/A, Kissam-PARBAT (84°33'17.08" to 84°33'21.15", & 20°35'05.90" to 20°35'11.92")
A2	Kharabhuin Jungle-II stone quarry	Sashmita Behera	Sashmita Behera At-Masterpada Po/Ps-Phulbani Dist-Kandhamal	No-10372302470, Dtd-28.12.2023	2.023	28.12.2023	27.12.2028	28.12.2023	Working	SIA/OR/MIN/30 0034/2023 Dt.06.11.2023	At:- Kharabhuin, Khata No-2, Plot No-01/A, Kissam-PARBAT (84°31'48.25", & 20°34'42.64" to 20°34'49.04")
A3	Kharabhuin -I stone quarry	Krutibasha Mishra	Krutibasha Mishra At-Bhajabalpur District-Subarnapur	Agreement not done yet	2.833	Agreement not done yet	Agreement not done yet	Agreement not done yet	Not-Working	Not obtained	At:- Kharabhuin, Khata No-2, Plot No-01/A, Kissam-PARBAT (84°33'03.72" to 84°33'12.82", & 20°35'13.69" to 20°35'17.82")
A4	Kharabhuin -II stone quarry	Janardana Mishra	Janardana Mishra At-Brahmana sahi Po-Boudh	No-10372500166, Dtd-30.01.2025	2.833	30.01.2025	29.01.2030	30.01.2025	Working	SIA/OR/MIN/47 6972/2024 Date.17.08.2024	At:- Kharabhuin, Khata No193, Plot No-1463/A, Kissam-PARBAT (84°32'55.31" to 84°33'00.94", & 20°34'42.45" to 20°34'49.02")
A5	Kharabhuin Jungle-III stone quarry (Quarry permit)	Bidder not finalized	Bidder not finalized	Bidder not finalized	2.833	Bidder not finalized	Bidder not finalized	Bidder not finalized	Not-Working	Not obtained	At:- Kharabhuin, Khata No2, Plot No-01/B&02/B, Kissam-PARBAT (84°31'45.68" to 84°31'54.20", & 20°34'44.53" to 20°34'50.72")

A6	Baisipada stone quarry	Not handed over by Tahasil Due to Litigation	Not handed over by Tahasil Due to Litigation	Not handed over by Tahasil Due to Litigation	4.99	Not handed over by Tahasil Due to Litigation	Not handed over by Tahasil Due to Litigation	Not handed over by Tahasil Due to Litigation	Not-Working	Not handed over by Tahasil Due to Litigation	At:- Baisipada, Khata No-71, Plot No-599, Kissam-PARBAT (20°34'54.28"N & 84°31'14.55"E)
B.Name of the Tahasil:- Boudh											
B1	Udbilika stone Quarry-1	Rameswara Agrawalla,	Rameswara Agrawalla, At/Po-Boudh Dist-Boudh	No-10372101523, Dtd-04.08.2021	0.89	04.08.2021	03.08.2026	04.08.2021	Working	1017/SEIAA Dt.26.03.2021	At:- Udbilika, Khata No121, Plot No-752, Kissam-PARBAT (84°5'50.81" to 84°5'59.32", & 20°44'26.12" to 20°44'27.66")
B2	Udbilika stone Quarry-2	Sri.Srikanta Mishra	Sri.Srikanta Mishra At-Kalarakotha Po/Ps-Kantamal Dist-Boudh	No-10372100919, Dtd-10.05.2021	0.809	10.05.2021	09.05.2026	10.05.2021	Working	1009/SEIAA Dt.26.03.2021	At:- Udbilika, Khata No121, Plot No-756, Kissam-PARBAT (84°5'47.97" to 84°5'51.03", & 20°44'39.24" to 20°44'42.58")
B3	Udbilika stone Quarry-3	Srinivasa Mishra	Srinivasa Mishra At-Bhajabalpur po-Dharmasala ps-Ulunda District-Subarnapur	No-10372100918, Dtd-06.05.2021	0.809	06.05.2021	05.05.2026	06.05.2021	Working	1007/SEIAA Dt.26.03.2021	At:- Udbilika, Khata No121, Plot No-753/B, Kissam-PARBAT (84°05'58.00" to 84°06'01.60", & 20°44'39.27" to 20°44'41.90")
B4	Udbilika stone Quarry-4	Santanu Kumar Thati	Santanu Kumar Thati At/ Po-Baragocha Ps/Dist-Boudh	No-10372201703, Dtd-12.07.2022	0.809	12.07.2022	11.07.2027	12.07.2022	Working	1015/SEIAA Dt.26.03.2021	At:- Udbilika, Khata No121, Plot No-753, Kissam-PARBAT (84°06'04.98" to 84°06'08.55", & 20°44'39.26" to 20°44'41.84")
B5	Damodarpu r Stone Quarry	Sri Shakti Prasad Sahoo	M/s Balabhadra Developer Pvt.Ltd. Proprietor, Sri Shakti Prasad Sahoo At-Gudianali Po/Ps/Dist-Dhenkanal	No-10372202109, Dtd-12.07.2023	1.173	12.09.20202	11.09.2027	12.09.2022	Working	SIA/OR/MIN/25 3913/2022 Date.31.03.2022	At:- Damodarpur, Khata No161, Plot No-2&17, Kissam-PATHARA CHATANA Plot-2- (84°12' 22.54" to 84°12' 24.85", & 20°49' 37.74" to 20°49'39.44") Plot-17- (84°12' 7.41" to 84°12' 12.07", & 20°49' 34.38" to 20°49'38.83")
B6	Udbilika stone Quarry-6	Srinivasa Mishra	Srinivasa Mishra At-Bhajabalpur po-Dharmasala ps-Ulunda District-Subarnapur	Agreement not done yet	4.047	Agreement not done yet	Agreement not done yet	Agreement not done yet	Not-Working	Not obtained	At:- Udbilika, Khata No121, Plot No-756, Kissam-PARBAT (84° 06' 01.40" to 84° 06' 08.57", & 20° 44' 39.27" to 20° 44' 45.91")

B7	Udbilika stone Quarry-5	Bidder not finalized	Bidder not finalized	Bidder not finalized	5.260	Bidder not finalized	Bidder not finalized	Bidder not finalized	Not-Working	Not obtained	At:- Udbilika, Khata No121, Plot No-665/P, Kissam-PARBAT (84° 06' 05.06" to 84°06' 12.44" , & 20°44'34.72" to 20°44'43.33")
C.Name of the Tahasil:- Kantamal											
C1	Bikrampur stone Quarry-ka	Sri Santanu Kumar Mishra	M/s S.M. Trading &Co. Proprietor, Sri Santanu Kumar Mishra At-Basudevпали Po - Manmunda Dist-Boudh	No-10382400786, Dtd-29.10.2024	1.214	29.10.2024	28.10.2029	29.10.2024	Working	SIA/OR/MIN/470008 / 2024 Date.27.08.2024	At:- Bikrampur, Khata No32, Plot No-109(P) , Kissam-PAATHARABANI (83°59' 07.8" to 83°59' 12.6" , & 20°44'13.9" to 20°44'18.6")
C2	Bikrampur stone Quarry-kha	Sri Santanu Kumar Mishra	M/s S.M. Trading &Co. Proprietor, Sri Santanu Kumar Mishra At-Basudevपाली Po - Manmunda Dist-Boudh	No-10382400785, Dtd-29.10.2024	1.028	29.10.2024	28.10.2029	29.10.2025	Working	SIA/OR/MIN/469912 /2024 Date.27.08.2024	At:- Bikrampur, Khata No32, Plot No-109(P) , Kissam-PAATHARABANI (83°59' 09.1" to 83° 59' 13.7" , & 20°44'11.7" to 20°44'16.2")
C3	Dedhenmal -1 stone Quarry	Bidder not finalized	Proposed for Extinct	Proposed for Extinct	0.242	Proposed for Extinct	Proposed for Extinct	Proposed for Extinct	Not-Working	Not obtained	At:- Dedhenmal , Khata No-195, Plot No-1723/A , Kissam-PAATHARABANI 20°28'34.55"N & 83°41'22.58"E)

NB: in the above table omitted Columns are,
Column- 09 & 10 Period of Mining lease (Renew) -NA
Column-13 Use (Captive/ Non-Captive) - All Non-Captive
Column- 16 Method of Mining (Opencast/Underground) - All Open cast
Reason for nonworking -refer Annexure-II

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

Revenue collected for **Stone/Road metal**.

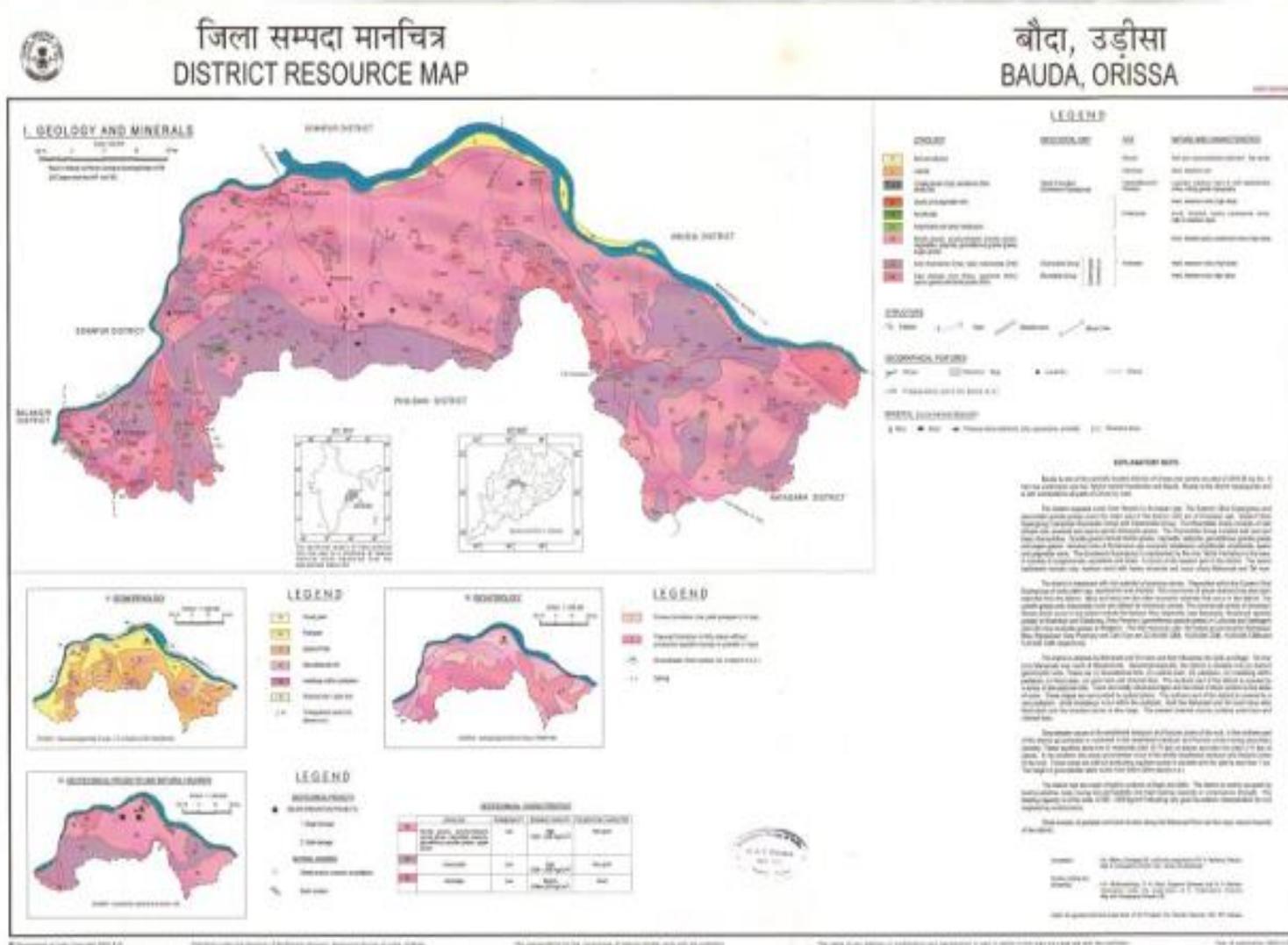
Sl. No	Name of the Tahasil	Name of Source	Revenue Collected for last three years (in Rs) Lakh		
			2022-23	2023-24	2024-25
1	Harabhanga	Kharabhuin Jungle-I stone quarry	0.37	40.21	40.21
2	Harabhanga	Kharabhuin Jungle-II stone quarry	0	21.84	87.34
3	Harabhanga	Kharabhuin -I stone quarry	Not operational	Not operational	lease deed executed on 2025
4	Harabhanga	Kharabhuin -II stone quarry	Not operational	Not operational	Not operational
5	Harabhanga	Kharabhuin Jungle-III stone quarry (Quarry permit)	Not operational	4.34	37.36
6	Harabhanga	Baisipada stone quarry	Not operational	Not operational	Not operational
7	Boudh	Udbilika stone Quarry-1	15.68	15.43	Temporarily closed (Due to outside working from lease area)
8	Boudh	Udbilika stone Quarry-2	15.87	15.87	Temporarily closed (Due to outside working from lease area)
9	Boudh	Udbilika stone Quarry-3	17.78	17.78	Temporarily closed (Due to outside working from lease area)
10	Boudh	Udbilika stone Quarry-4	11.61	17.41	Temporarily closed (Due to outside working from lease area)
11	Boudh	Damodarpur Stone Quarry	22.02	22.02	22.02
12	Boudh	Udbilika stone Quarry-6	Not operational	Not operational	Not operational
13	Boudh	Udbilika stone Quarry-5	Pending dues	Pending dues	Not operational
14	Kantamal	Bikrampur stone Quarry-ka	218418	54603	Not obtained
15	Kantamal	Bikrampur stone Quarry-kha	215435	53858	Not obtained
16	Kantamal	Dedhenmal-1 stone Quarry	Not operational	Not operational	Not operational

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

Production of **Stone/Road metal**.

PRODUCTION OF STONE DISTRICT-BOUDH					
Sl. No.	Name of the Tahasil	Name of Source	Production for last three years (in Cum)		
			2022-23	2023-24	2024-25
1	Harabhanga	Kharabhuin Jungle-I stone quarry	8127	8127	8127
2	Harabhanga	Kharabhuin Jungle-II stone quarry	0	2030	8118
3	Harabhanga	Kharabhuin -I stone quarry	Not operational	Not operational	lease deed executed on 2025
4	Harabhanga	Kharabhuin -II stone quarry	Not operational	Not operational	Not operational
5	Harabhanga	Kharabhuin Jungle-III stone quarry (Quarry permit)	Not operational	2000	5000
6	Harabhanga	Baisipada stone quarry	Not operational	Not operational	Not operational
7	Boudh	Udbilika stone Quarry-1	5009	5009	5009
8	Boudh	Udbilika stone Quarry-2	5005	5005	5005
9	Boudh	Udbilika stone Quarry-3	5018	5018	5018
10	Boudh	Udbilika stone Quarry-4	5040	5040	5040
11	Boudh	Damodarpur Stone Quarry	950	950	950
12	Boudh	Udbilika stone Quarry-6	Not operational	Not operational	Not operational
13	Boudh	Udbilika stone Quarry-5	9058	9058	Not operational
14	Kantamal	Bikrampur stone Quarry-ka	1242	1242	Not obtained
15	Kantamal	Bikrampur stone Quarry-kha	1051	1051	Not obtained
16	Kantamal	Dedhenmal-1 stone Quarry	Not operational	Not operational	Not operational

12. MINERAL MAP OF THE DISTRICT.



13. LIST OF LETTERS 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
1	Kharabhuin -I stone quarry	Krutibasha Mishra	Krutibasha Mishra At-Bhajabalpur District-Subarnapur	Letter No.-961, Date-19.04.2021	2.833Hc	3 MONTHS TO 2 YRS	Non-Captive	At:- Kharabhuin, Khata No-2, Plot No-01/A, Kissam-PARBAT (84°33'03.72" to 84°33'12.82", & 20°35'13.69" to 20°35'17.82")
2	Udbilika stone Quarry-6	Srinivasa Mishra	Srinivasa Mishra At-Bhajabalpur po-Dharmasala ps-Ulunda District-Subarnapur	Letter No.-986, Date-18.02.2021	4.047Hc	3 MONTHS TO 2 YRS	Non-Captive	At:- Udbilika, Khata No121, Plot No-756, Kissam-PARBAT (84° 06' 01.40" to 84° 06' 08.57", & 20° 44' 39.27" to 20° 44' 45.91")

* 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 & NEW SOURCES AS PER FIELD OBSERVATION (IN Cum)	MINEABLE RESERVE OF OPERATIONAL QUARRIES AS PER APPROVED MINING PLAN /MINERAL POTENTIAL OF NON-OPERATIONAL & NEW SOURCES AS PER FIELD OBSERVATION (IN Cum)
Name of the District-Boudh			
Name of the Tahasil:- Harabhanga			
A1	Kharabhuin Jungle-I stone quarry, At:- Kharabhuin, Khata No-2(AJA), Plot No-50/A, Kissam-PARBAT (84°33'17.08" to 84°33'21.15", & 20°35'05.90" to 20°35'11.92")	272250	184509
A2	Kharabhuin Jungle-II stone quarry, At:- Kharabhuin, Khata No-2, Plot No-01/A, Kissam-PARBAT (84°31'40.24" to 84°31'48.25", & 20°34'42.64" to 20°34'49.04")	319923	200377
A3	Kharabhuin -I stone quarry, At:- Kharabhuin, Khata No-2, Plot No-01/A, Kissam-PARBAT (84°33'03.72" to 84°33'12.82", & 20°35'13.69" to 20°35'17.82")	309505	435073
A4	Kharabhuin -II stone quarry, At:- Kharabhuin, Khata No193, Plot No-1463/A, Kissam-PARBAT (84°32'55.31" to 84°33'00.94", & 20°34'42.45" to 20°34'49.02")	339788	235132
A5	Kharabhuin Jungle-III stone quarry (Quarry permit), At:- Kharabhuin, Khata No2, Plot No-01/B&02/B, Kissam-PARBAT (84°31'45.68" to 84°31'54.20", & 20°34'44.53" to 20°34'50.72")	732564	435073
A6	Baisipada stone quarry, At:- Baisipada, Khata No-71, Plot No-599, Kissam-PARBAT (20°34'54.28"N & 84°31'14.55"E)	399200	239520

Name of the Tahasil:- Boudh			
B1	Udbilika stone Quarry-1, At:- Udbilika, Khata No121, Plot No-752, Kissam-PARBAT (84°5'50.81" to 84°5'59.32", & 20°44'26.12" to 20°44'27.66")	59371	32396
B2	Udbilika stone Quarry-2, At:- Udbilika, Khata No121, Plot No-756, Kissam-PARBAT (84°5'47.97" to 84°5'51.03", & 20°44'39.24" to 20°44'42.58")	53726	36723
B3	Udbilika stone Quarry-3, At:- Udbilika, Khata No121, Plot No-753/B, Kissam-PARBAT (84°05'58.00" to 84°06'01.60", & 20°44'39.27" to 20°44'41.90")	126021	65843
B4	Udbilika stone Quarry-4, At:- Udbilika, Khata No121, Plot No-753, Kissam-PARBAT (84°06'04.98" to 84°06'08.55", & 20°44'39.26" to 20°44'41.84")	57595	30593
B5	Damodarapur Stone Quarry , At:- Damodarapur, Khata No161, Plot No-2&17, Kissam-PATHARA CHATANA Plot-2- (84°12' 22.54" to 84°12' 24.85", & 20°49' 37.74" to 20°49'39.44") Plot-17- (84°12' 7.41" to 84°12' 12.07", & 20°49' 34.38" to 20°49'38.83")	42249.6	25020
B6	Udbilika stone Quarry-6, At:- Udbilika, Khata No121, Plot No-756, Kissam-PARBAT (84° 06' 01.40" to 84° 06' 08.57", & 20° 44' 39.27" to 20° 44' 45.91")	862752	413984
B7	Udbilika stone Quarry-5, At:- Udbilika, Khata No121, Plot No-665/P, Kissam-PARBAT (84° 06' 05.06" to 84°06' 12.44", & 20°44'34.72" to 20°44'43.33")	368200	220920
Name of the Tahasil:- Kantamal			
C1	Bikrampur stone Quarry-ka, At:- Bikrampur, Khata No32, Plot No-109(P) , Kissam-PAATHARABANI (83°59' 07.8" to 83°59' 12.6", & 20°44'13.9" to 20°44'18.6")	158355	53640
C2	Bikrampur stone Quarry-kha, At:- Bikrampur, Khata No32, Plot No-109(P) , Kissam-PAATHARABANI (83°59' 09.1" to 83° 59' 13.7", & 20°44'11.7" to 20°44'16.2")	101088	48600
C3	Dedhenmal-1 stone Quarry, At:- Dedhenmal , Khata No-195, Plot No-1723/A , Kissam-PAATHARABANI 20°28'34.55"N & 83°41'22.58"E)	14520	8712

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

Road metal/building metal of the district are very much suitable for various construction purposes after its crushing and screening. The in-situ rocks are fractured making these unsuitable for decorative purpose.

16. USE OF MINERAL.

Road metal/building metal of the district are used mainly for various construction purposes like road making, concrete making, dams etc.

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

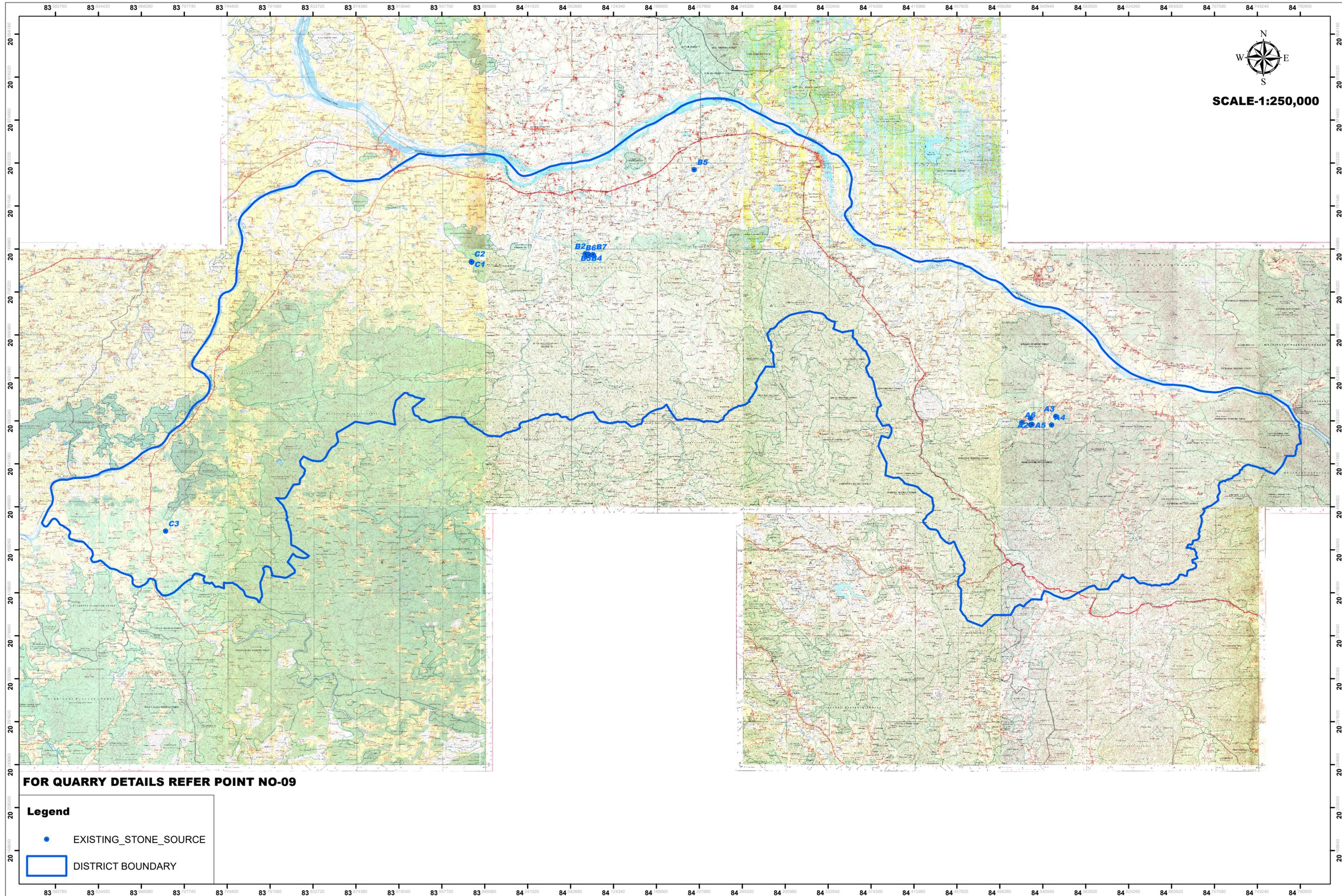
As per the data provided by the DDM the demand of the road metal/stone in the district is as follows,

Sl No	Department	2022-23 (Cum)	2023-24 (Cum)	2024-25 (Cum)
1	Irrigation Division, Boudh	73171.7	97388.5	63317.9
2	Superintending Engineer Boudh (R&B) Division, Boudh	72991.93	252118.5	199631.24
3	Kantamal (R & B) Sub Division	50250.3	121904.29	146483.16

Supply of the mineral details are given in the production table.

18. Mining lease marked on the map of the district.

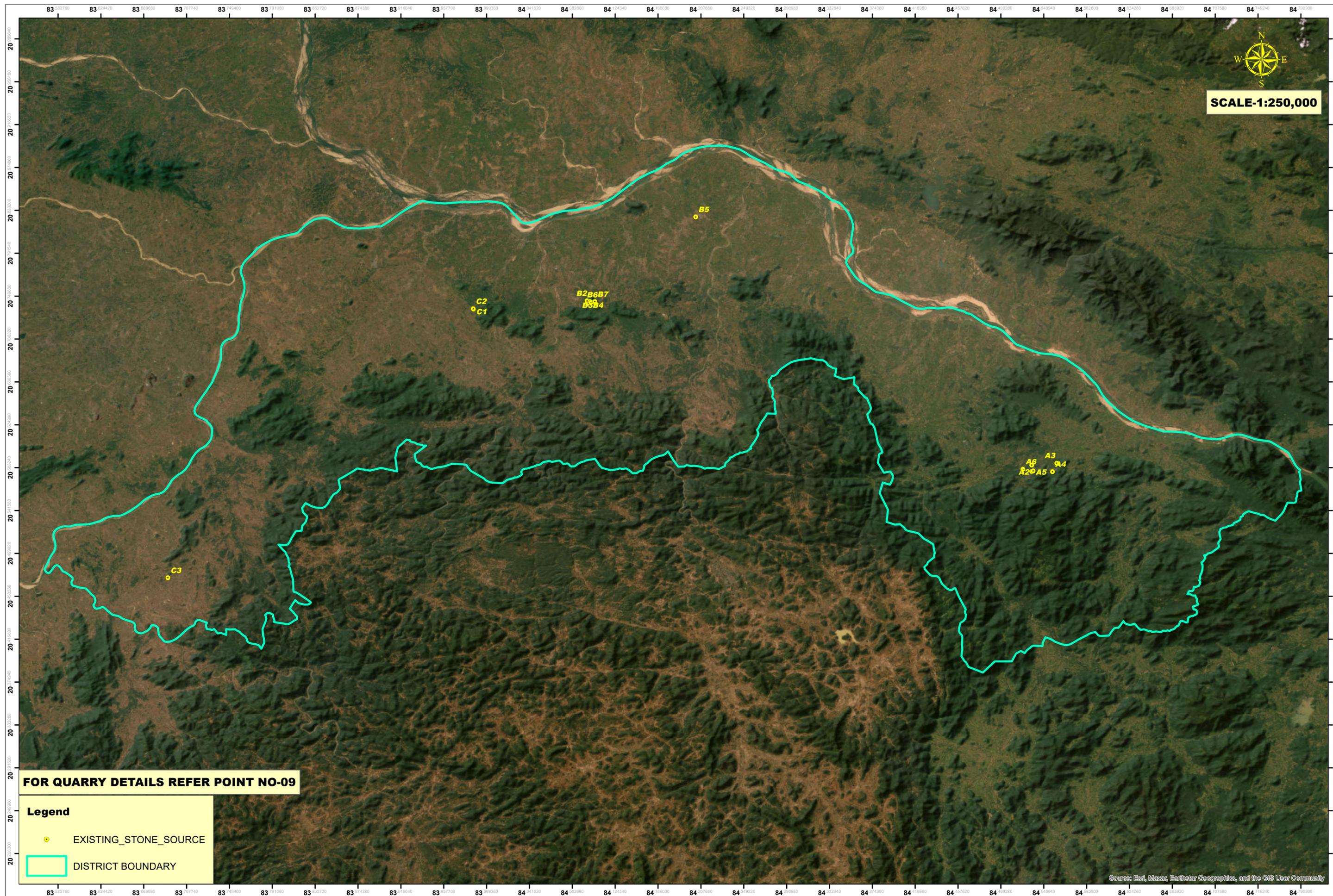
MINING LEASES (STONE) MARKED ON THE DISTRICT TOPO-MAP OF BOUDH



FOR QUARRY DETAILS REFER POINT NO-09

- Legend**
- EXISTING_STONE_SOURCE
 - ▭ DISTRICT BOUNDARY

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



SCALE-1:250,000

FOR QUARRY DETAILS REFER POINT NO-09

Legend

- EXISTING_STONE_SOURCE
- ▭ DISTRICT BOUNDARY

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

SL NO.	NAME OF TAHASIL	NAME OF CLUSTER	DETAILS OF QUARRY LEASE AREA	NUMBER OF MINING LEASE
1	Harabhanga	Kharabhuin Cluster	Kharabhuin Jungle-II stone quarry, At:- Kharabhuin, Khata No-2, Plot No-01/A, Kissam-PARBAT (84°31'40.24" to 84°31'48.25", & 20°34'42.64" to 20°34'49.04")	2
			Kharabhuin Jungle-III stone quarry (Quarry permit), At:- Kharabhuin, Khata No2, Plot No-01/B&02/B, Kissam-PARBAT (84°31'45.68" to 84°31'54.20", & 20°34'44.53" to 20°34'50.72")	
2	Boudh	Udbilika Cluster	Udbilika stone Quarry-1, At:- Udbilika, Khata No121, Plot No-752, Kissam-PARBAT (84°5'50.81" to 84°5'59.32", & 20°44'26.12" to 20°44'27.66")	6
			Udbilika stone Quarry-2, At:- Udbilika, Khata No121, Plot No-756, Kissam-PARBAT (84°5'47.97" to 84°5'51.03", & 20°44'39.24" to 20°44'42.58")	
			Udbilika stone Quarry-3, At:- Udbilika, Khata No121, Plot No-753/B, Kissam-PARBAT (84°05'58.00" to 84°06'01.60", & 20°44'39.27" to 20°44'41.90")	
			Udbilika stone Quarry-4, At:- Udbilika, Khata No121, Plot No-753, Kissam-PARBAT (84°06'04.98" to 84°06'08.55", & 20°44'39.26" to 20°44'41.84")	
			Udbilika stone Quarry-6, At:- Udbilika, Khata No121, Plot No-756, Kissam-PARBAT (84° 06' 01.40" to 84° 06' 08.57", & 20° 44' 39.27" to 20° 44' 45.91")	
			Udbilika stone Quarry-5, At:- Udbilika, Khata No121, Plot No-665/P, Kissam-PARBAT (84° 06' 05.06" to 84°06' 12.44", & 20°44'34.72" to 20°44'43.33")	
3	Kantamal	Bikrampur Cluster	Bikrampur stone Quarry-ka, At:- Bikrampur, Khata No32, Plot No-109(P) , Kissam-PAATHARABANI (83°59' 07.8" to 83°59' 12.6", & 20°44'13.9" to 20°44'18.6")	2
			Bikrampur stone Quarry-kha, At:- Bikrampur, Khata No32, Plot No-109(P) , Kissam-PAATHARABANI (83°59' 09.1" to 83° 59' 13.7", & 20°44'11.7" to 20°44'16.2")	

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

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

The closest protected wildlife area to Boudh district is the Padmatola Sanctuary, which forms part of the larger Satkosia Gorge Wildlife Sanctuary, itself within the Satkosia Tiger Reserve—straddling Angul, Cuttack, Nayagarh, and Boudh districts.

This sanctuary is about 80 km from Boudh town via Charichaka and features the dramatic 22 km-long Satkosia Gorge carved by the Mahanadi, marking a transition between the Chhotanagpur plateau, dry deciduous, and moist Sal forests. The region supports diverse wildlife including tigers, leopards, elephants, spotted deer, chousingha, sloth bears, gharial and mugger crocodiles, turtles, snakes, and a variety of resident and migratory birds.

Important highlights include a Gharial conservation and breeding centre at Tikarpada, established in the mid-1990s, along with boating, river safaris, trekking, and a forest rest house at Tikarpada

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

Activities attributed to Mining: -

Generally, the environment impact can be categorized as either primary or secondary. Primary Impacts are those, which are attributed directly by the project. Secondary impacts are those which are indirectly induced and typically include the associated investment and changed pattern of social and economic activities by the proposed action.

The impact has been ascertained for the project assuming that the pollution due to mining activity has been completely spelled out under the base line environmental status for the entire ROM which is proposed to be exploited from the mines.

Impact on Ambient Air

Mining operations involve drilling, blasting, crushing, and transportation of stones, which release dust (particulate matter) and pollutant gases (like SO₂ and NO_x) into the atmosphere.

- **Impact:**
 - Breathing issues like asthma and bronchitis in local communities.
 - Reduced air quality, especially around mining and crushing zones.
 - Dust settles on nearby crops and vegetation, reducing productivity.

Water Impact

Mining disturbs the natural drainage and water flow. It often leads to sedimentation of nearby rivers or ponds and sometimes chemical runoff (from explosives or machinery) pollutes water sources.

- **Impact:**

- Contamination of drinking water sources.
- Negative effect on aquatic life and irrigation water quality.
- Water scarcity during dry seasons due to altered groundwater levels.

Noise Impact

Blasting and operation of heavy machinery (like excavators, trucks, crushers) create constant noise, often beyond permissible limits.

- **Impact:**

- Hearing problems and stress among residents.
- Disruption of wildlife activities, particularly breeding and migration.
- Lower quality of life for people living near mining areas.

Impact on Land environment

The topography of the area will change certain changes due to mining activity which may cause some alteration to the entire eco system.

Impact on Flora & Fauna

The impact on biodiversity is difficult to quantify because of its diverse and dynamic characteristics.

Mining activities generally result in the deforestation, land degradation, water, air and noise pollution which directly or indirectly affect the faunal and flora status of the project area.

However, occurrence and magnitude of these impacts are entirely dependent upon the project location, mode of operation and technology involved.

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

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 mines 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, equipment 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).

As per statute all mines/quarries are to be properly reclaimed before final closure of the mine. Reclamation of exhausted mines are planned to be undertaken in below three possible means:

1. If, substantial amount of waste is there, the exhausted quarry can be fully or partly backfilled using the stored waste. The backfilled areas are to be brought under plantation of local species.
2. If the generation of waste is much less as in the case of minor mineral mining, the exhausted quarries can be reclaimed by
 - a. Plantation on the broken-up surface if the depth of quarry is not much below the surrounding surface level.
 - b. Converted to water reservoir after stabilization of the slopes if the exhausted quarry continues much below the surrounding surface level. It is preferred to cordon the

water reservoir either through wire fencing or retaining wall with plantation from the safety point of view.

Most of the quarry/mining lease areas are yet to be exhausted from ore point of view. Hence, reclamation would be taken up only after exhaustion of the ore/mineral content from these areas. The exhausted minor mineral quarries of the district have been converted to water reservoirs.

24. RISK ASSESSMENT & DISASTER MANAGEMENT PLAN.

The only risk involved related to mining of minor mineral excepting natural calamities is slope failure and probable accidents due to high and ill maintained bench walls. This can only be addressed through making of regular benches and undertaking mining in benching pattern.

The disaster management plan (DMP) is supposed to be a dynamic, changing, document focusing on continual improvement of emergency response planning and arrangements.

The disaster management plan is to be aimed to ensure safety of life, protection of environment, protection of installation, restoration of production and salvage operations in this same order of priorities. For effective implementation of the disaster management plan, it should be widely circulated through rehearsal/induction conducted by the respective department from time to time.

General responsibilities of employees' during an emergency:

During an emergency, it becomes more enhanced and pronounced when an emergency warning is raised, the worker in charge, should adopt safe and emergency shut down and attend to any prescribed duty. If no such responsibility is assigned, the workers should adopt a safe course to assembly point and wait instructions. He should not resort to spread panic. On the other hand, he must assist emergency personnel towards objectives of DMP.

Co-ordination with local authorities:

The Mine Manager who is responsible for emergency will always keep a jeep ready at site. In case of any eventuality, the victim will be taken to the nearby hospitals after carrying out the first aid at the site. The Manager should collect and have adequate information of the nearby hospitals, fire station, police station, village panchayat heads, taxi stands, medical shops, district revenue authorities etc. and use them efficiently during the case of emergency.

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 guidelines of the Mine Rules 1995, occupational health safety has been stipulated by the ILO/WHO. The proponents will take necessary precautions to fulfil the stipulations. Normal sanitary facilities have to be provided within the lease area. The management will carry out periodic health checkup of workers.

Occupational hazards involved in mines are related to dust pollution, noise pollution, blasting and injuries from moving machineries & equipment and fall from high places. DGMS has given necessary guidelines for safety against these occupational hazards. The management has to strictly follow these guidelines.

All necessary first aid and medical facilities are to be provided to the workers. The mine shall be well equipped with personal protective equipment (PPE). Further, all the necessary ported equipment such as helmet, safety goggles, earplugs, earmuffs etc are to be provided to mine workers as per Mines Rules. All operators and mechanics are to be trained to handle firefighting equipment.

	2020	2021	2022	2023	2024
No of Silicosis Patient	Nil	Nil	Nil	Nil	Nil
No of TB Patient	276	315	369	397	383

This is for your information.

Yours faithfully,

**Additional District Public Health Officer (TB)
Boudh**

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

As most of the minor mineral mines/quarries of the district are yet to be exhausted of their mineral content no sort of reclamation measures including plantation has been undertaken excluding gap plantation of local species in the peripheral safety zones of the quarries/ clusters and in some of the haul roads.

27. ANY OTHER INFORMATION.

Nil

Details of Sand/M-Sand Sources

a) Rivers:

Name of Reservoir/Dams	Maintain/Controlled by State Govt./PSU etc.	Location	District	Tehsil	Village	Size(Ha)
NA	NA	NA	NA	NA	NA	NA

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

Not Applicable

c) Patta Lands/Khatedari Land:

Owner	Sy. No	Area (Ha)	District	Tehsil	Village	Agricultural Land (Yes/No)
NA	NA	NA	NA	NA	NA	NA

d) M-Sand Plants:

Plant Name	Owner	District	Tehsil	Village	Geo-location	Quantity Tonnes/Annum
NA	NA	NA	NA	NA	NA	NA

Annexure-II

List of Potential Mining Leases (existing & proposed)

Lease No.	Lease Details	Area (in Ha)	Distance (in KM) from PA/BR/WC/	Distance from Forest Area (in KM)	Mining leases within 500 meters (if yes cluster area)	Total excavation in CUM /Annum	Mineral to be mined in Cum	Existing/ Proposed	Remarks
A1	Kharabhuin Jungle-I stone quarry, At:- Kharabhuin, Khata No-2(AJA), Plot No-50/A, Kissam-PARBAT (84°33'17.08" to 84°33'21.15", & 20°35'05.90" to 20°35'11.92")	2.023	PA-4.7/BR-12.7	4.7	NO	8127	184509	Existing	Operational
A2	Kharabhuin Jungle-II stone quarry, At:- Kharabhuin, Khata No-2, Plot No-01/A, Kissam-PARBAT (84°31'40.24" to 84°31'48.25", & 20°34'42.64" to 20°34'49.04")	2.023	PA-4.3/BR-13.3	4.3	YES	8118	200377	Existing	Operational
A3	Kharabhuin -I stone quarry, At:- Kharabhuin, Khata No-2, Plot No-01/A, Kissam-PARBAT (84°33'03.72" to 84°33'12.82", & 20°35'13.69" to 20°35'17.82")	2.833	PA-4.5/BR-13.1	4.5	NO	Not operational	435073	Existing	Bidder Finalized but Lease deed not done
A4	Kharabhuin -II stone quarry, At:- Kharabhuin, Khata No193, Plot No-1463/A, Kissam-PARBAT (84°32'55.31" to 84°33'00.94", & 20°34'42.45" to 20°34'49.02")	2.833	PA-3.6/BR-13.8	3.6	NO	lease deed executed on 2025	235132	Existing	Operational
A5	Kharabhuin Jungle-III stone quarry (Quarry permit), At:- Kharabhuin, Khata No2, Plot No-01/B&02/B, Kissam-PARBAT (84°31'45.68" to 84°31'54.20", & 20°34'44.53" to 20°34'50.72")	2.833	PA-4.4/BR-13.3	4.4	YES	5000	435073	Existing	Bidder not Finalized
A6	Baisipada stone quarry, At:- Baisipada, Khata No-71, Plot No-599, Kissam-PARBAT (20°34'54.28"N & 84°31'14.55"E)	4.99	PA-2/BR-13.1	2	NO	Not operational	239520	Existing	Not handed over by Tahasil Due to Litigation
B1	Udbilika stone Quarry-1, At:- Udbilika, Khata No121, Plot No-752, Kissam-PARBAT (84°5'50.81" to 84°5'59.32", & 20°44'26.12" to 20°44'27.66")	0.89	PA-17.7/BR-21.7	17.7	YES	5009	32396	Existing	Operational
B2	Udbilika stone Quarry-2, At:- Udbilika, Khata No121, Plot No-756, Kissam-PARBAT (84°5'47.97" to 84°5'51.03", & 20°44'39.24" to 20°44'42.58")	0.809	PA-17.9/BR-21.5	17.9	YES	5005	36723	Existing	Operational

B3	Udbilika stone Quarry-3, At:- Udbilika, Khata No121, Plot No-753/B, Kissam-PARBAT (84°05'58.00" to 84°06'01.60", & 20°44'39.27" to 20°44'41.90")	0.809	PA-18.5/BR-22.3	18.5	YES	5018	65843	Existing	Operational
B4	Udbilika stone Quarry-4, At:- Udbilika, Khata No121, Plot No-753, Kissam-PARBAT (84°06'04.98" to 84°06'08.55", & 20°44'39.26" to 20°44'41.84")	0.809	PA-18.0/BR-21.4	18	YES	5040	30593	Existing	Operational
B5	Damodarpur Stone Quarry , At:- Damodarpur, Khata No161, Plot No-2&17, Kissam-PATHARA CHATANA Plot-2- (84°12' 22.54" to 84°12' 24.85", & 20°49' 37.74" to 20°49'39.44") Plot-17- (84°12' 7.41" to 84°12' 12.07", & 20°49' 34.38" to 20°49'38.83")	1.173	PA-16.1/BR-11.3	16.1	NO	950	25020	Existing	Operational
B6	Udbilika stone Quarry-6, At:- Udbilika, Khata No121, Plot No-756, Kissam-PARBAT (84° 06' 01.40" to 84° 06' 08.57", & 20° 44' 39.27" to 20° 44' 45.91")	4.047	PA-17.9/BR-21.9	17.9	YES	Not operational	413984	Existing	Bidder Finalized but Lease deed not done
B7	Udbilika stone Quarry-5, At:- Udbilika, Khata No121, Plot No-665/P, Kissam-PARBAT (84° 06' 05.06" to 84°06' 12.44", & 20°44'34.72" to 20°44'43.33")	5.260	PA-18.1/BR-22.2	18.1	YES	Not operational	220920	Existing	Bidder not Finalized
C1	Bikrampur stone Quarry-ka, At:- Bikrampur, Khata No32, Plot No-109(P) , Kissam-PAATHARABANI (83°59' 07.8" to 83°59' 12.6", & 20°44'13.9" to 20°44'18.6")	1.214	PA-17.4/BR-12.8	17.4	YES	Not obtained	53640	Existing	Operational
C2	Bikrampur stone Quarry-kha, At:- Bikrampur, Khata No32, Plot No-109(P) , Kissam-PAATHARABANI (83°59' 09.1" to 83° 59' 13.7", & 20°44'11.7" to 20°44'16.2")	1.028	PA-17.5/BR-12.6	17.5	YES	Not obtained	48600	Existing	Operational
C3	Dedhenmal-1 stone Quarry, At:- Dedhenmal , Khata No-195, Plot No-1723/A , Kissam-PAATHARABANI (20°28'34.55"N & 83°41'22.58"E)	0.242	PA-1.43/BR-1.96	1.43	NO	Not operational	8712	Existing	Bidder not Finalized

Cluster & Contiguous Cluster details

Clusters:

Cluster No.	Lease No	Location	Village	Area (in Ha)	Total Excavation (Cum)	Total Mineral Excavation (Cum)
1	A2	Kharabhuin Jungle-II stone quarry, At:- Kharabhuin, Khata No-2, Plot No-01/A, Kissam-PARBAT (84°31'40.24" to 84°31'48.25", & 20°34'42.64" to 20°34'49.04")	Kharabhuin	2.023	9020	8118
	A5	Kharabhuin Jungle-III stone quarry (Quarry permit), At:- Kharabhuin, Khata No2, Plot No-01/B&02/B, Kissam-PARBAT (84°31'45.68" to 84°31'54.20", & 20°34'44.53" to 20°34'50.72")	Kharabhuin	2.833	5555.6	5000
2	B1	Udbilika stone Quarry-1, At:- Udbilika, Khata No121, Plot No-752, Kissam-PARBAT (84°5'50.81" to 84°5'59.32", & 20°44'26.12" to 20°44'27.66")	Udbilika	0.89	5565.6	5009
	B2	Udbilika stone Quarry-2, At:- Udbilika, Khata No121, Plot No-756, Kissam-PARBAT (84°5'47.97" to 84°5'51.03", & 20°44'39.24" to 20°44'42.58")	Udbilika	0.809	5561.2	5005
	B3	Udbilika stone Quarry-3, At:- Udbilika, Khata No121, Plot No-753/B, Kissam-PARBAT (84°05'58.00" to 84°06'01.60", & 20°44'39.27" to 20°44'41.90")	Udbilika	0.809	5575.6	5018
	B4	Udbilika stone Quarry-4, At:- Udbilika, Khata No121, Plot No-753, Kissam-PARBAT (84°06'04.98" to 84°06'08.55", & 20°44'39.26" to 20°44'41.84")	Udbilika	0.809	5600	5040
	B6	Udbilika stone Quarry-6, At:- Udbilika, Khata No121, Plot No-756, Kissam-PARBAT (84° 06' 01.40" to 84° 06' 08.57", & 20° 44' 39.27" to 20° 44' 45.91")	Udbilika	4.047	Not operational	Not operational
	B7	Udbilika stone Quarry-5, At:- Udbilika, Khata No121, Plot No-665/P, Kissam-PARBAT (84° 06' 05.06" to 84°06' 12.44", & 20°44'34.72" to 20°44'43.33")	Udbilika	5.26	Not operational	Not operational
3	C1	Bikrampur stone Quarry-ka, At:- Bikrampur, Khata No32, Plot No-109(P) , Kissam-PAATHARABANI (83°59' 07.8" to 83°59' 12.6", & 20°44'13.9" to 20°44'18.6")	Bikrampur	1.214	Not obtained	Not obtained
	C2	Bikrampur stone Quarry-kha, At:- Bikrampur, Khata No32, Plot No-109(P) , Kissam-PAATHARABANI (83°59' 09.1" to 83° 59' 13.7", & 20°44'11.7" to 20°44'16.2")	Bikrampur	1.028	Not obtained	Not obtained

Contiguous Clusters:

River Name	Contiguous Cluster No.	Cluster No	Number of leases in the cluster	Location (Riverbed/ Patta Land)	Distance between clusters	Village	Area of Cluster (Ha)	Total Mineral Excavation. (Ton)
NA	NA	NA	NA	NA	NA	NA	NA	NA

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	SH-23	1	6	0.26	BLACK TOPPED	BLACK TOPPED	Govt	Mouza- Kharabhuin, SH-23-0.26
A2	SH-23	1		1.16	BLACK TOPPED	BLACK TOPPED	Govt	Mouza- Kharabhuin, SH-23-1.16
A3	SH-23	1		1.4	BLACK TOPPED	BLACK TOPPED	Govt	Mouza- Kharabhuin,SH-23- 1.4
A4	SH-23	1		2	BLACK TOPPED	BLACK TOPPED	Govt	Mouza- Kharabhuin,SH-23-2
A5	SH-23	1		0.63	BLACK TOPPED	BLACK TOPPED	Govt	Mouza- Kharabhuin, SH-23-0.63
A6	SH-23	1		0.24	BLACK TOPPED	BLACK TOPPED	Govt	Mouza- Baisipada, SH-23-0.24
B1	NH-57	1	10	8.9	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Udbilika,NH-57-8.9
B2	NH-57	1		9.1	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Udbilika,NH-57-9.1
B3	NH-57	1		10	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Udbilika,NH-57-10
B4	NH-57	1		9.3	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Udbilika,NH-57-9.3
B5	NH-57	1		3.57	BLACK TOPPED	BLACK TOPPED	Govt	Mouza- Damodarpur, NH-57-3.57
B6	NH-57	1		9.5	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Udbilika,NH-57-9.5
B7	NH-57	1		10.2	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Udbilika,NH-57-10.2
C1	NH-57	1		15.5	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Bikrampur, NH-57-15.5
C2	NH-57	1		15.6	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Bikrampur,NH-57-15.6
C3	SH-41	1		1.9	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Dedhenmal,SH-41-1.9

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
A2	SH-23	3	5	1.16	BLACK TOPPED	BLACK TOPPED	Govt	Mouza- Kharabhuin, SH-24-1.16
A5	SH-23	2		0.63	BLACK TOPPED	BLACK TOPPED	Govt	Mouza- Kharabhuin, SH-27-0.63
B1	NH-57	2	12	8.9	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Udbilika,NH-57-8.9
B2	NH-57	2		9.1	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Udbilika,NH-57-9.1
B3	NH-57	2		10	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Udbilika,NH-57-10
B4	NH-57	2		9.3	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Udbilika,NH-57-9.3
B6	NH-57	1		9.5	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Udbilika,NH-57-9.5
B7	NH-57	1		10.2	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Udbilika,NH-57-10.2
C1	NH-57	1		15.5	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Bikrampur, NH-57-15.5
C2	NH-57	1		15.6	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Bikrampur,NH-57-15.6

Final List of Potential Mining Leases (existing & proposed)

Lease No.	Lease Details	Area (in Ha)	Distance (in KM) from PA/BR/WC/	Distance from Forest Area (in KM)	Mining leases within 500 meters (if yes cluster area)	Total excavation in CUM /Annum	Mineral to be mined in Cum	Existing/ Proposed
A1	Kharabhuin Jungle-I stone quarry, At:- Kharabhuin, Khata No-2(AJA), Plot No-50/A, Kissam-PARBAT (84°33'17.08" to 84°33'21.15", & 20°35'05.90" to 20°35'11.92")	2.023	PA-4.7/BR-12.7	4.7	NO	8127	184509	Existing
A2	Kharabhuin Jungle-II stone quarry, At:- Kharabhuin, Khata No-2, Plot No-01/A, Kissam-PARBAT (84°31'40.24" to 84°31'48.25", & 20°34'42.64" to 20°34'49.04")	2.023	PA-4.3/BR-13.3	4.3	YES	8118	200377	Existing
A3	Kharabhuin -I stone quarry, At:- Kharabhuin, Khata No-2, Plot No-01/A, Kissam-PARBAT (84°33'03.72" to 84°33'12.82", & 20°35'13.69" to 20°35'17.82")	2.833	PA-4.5/BR-13.1	4.5	NO	Not operational	435073	Existing
A4	Kharabhuin -II stone quarry, At:- Kharabhuin, Khata No193, Plot No-1463/A, Kissam-PARBAT (84°32'55.31" to 84°33'00.94", & 20°34'42.45" to 20°34'49.02")	2.833	PA-3.6/BR-13.8	3.6	NO	lease deed executed on 2025	235132	Existing
A5	Kharabhuin Jungle-III stone quarry (Quarry permit), At:- Kharabhuin, Khata No2, Plot No-01/B&02/B, Kissam-PARBAT (84°31'45.68" to 84°31'54.20", & 20°34'44.53" to 20°34'50.72")	2.833	PA-4.4/BR-13.3	4.4	YES	5000	435073	Existing
A6	Baisipada stone quarry, At:- Baisipada, Khata No-71, Plot No-599, Kissam-PARBAT (20°34'54.28"N & 84°31'14.55"E)	4.99	PA-2/BR-13.1	2	NO	Not operational	239520	Existing
B1	Udbilika stone Quarry-1, At:- Udbilika, Khata No121, Plot No-752, Kissam-PARBAT (84°5'50.81" to 84°5'59.32", & 20°44'26.12" to 20°44'27.66")	0.89	PA-17.7/BR-21.7	17.7	YES	5009	32396	Existing
B2	Udbilika stone Quarry-2, At:- Udbilika, Khata No121, Plot No-756, Kissam-PARBAT (84°5'47.97" to 84°5'51.03", & 20°44'39.24" to 20°44'42.58")	0.809	PA-17.9/BR-21.5	17.9	YES	5005	36723	Existing

B3	Udbilika stone Quarry-3, At:- Udbilika, Khata No121, Plot No-753/B, Kissam-PARBAT (84°05'58.00" to 84°06'01.60", & 20°44'39.27" to 20°44'41.90")	0.809	PA-18.5/BR-22.3	18.5	YES	5018	65843	Existing
B4	Udbilika stone Quarry-4, At:- Udbilika, Khata No121, Plot No-753, Kissam-PARBAT (84°06'04.98" to 84°06'08.55", & 20°44'39.26" to 20°44'41.84")	0.809	PA-18.0/BR-21.4	18	YES	5040	30593	Existing
B5	Damodarpur Stone Quarry , At:- Damodarpur, Khata No161, Plot No-2&17, Kissam-PATHARA CHATANA Plot-2- (84°12' 22.54" to 84°12' 24.85", & 20°49' 37.74" to 20°49'39.44") Plot-17- (84°12' 7.41" to 84°12' 12.07", & 20°49' 34.38" to 20°49'38.83")	1.173	PA-16.1/BR-11.3	16.1	NO	950	25020	Existing
B6	Udbilika stone Quarry-6, At:- Udbilika, Khata No121, Plot No-756, Kissam-PARBAT (84° 06' 01.40" to 84° 06' 08.57", & 20° 44' 39.27" to 20° 44' 45.91")	4.047	PA-17.9/BR-21.9	17.9	YES	Not operational	413984	Existing
B7	Udbilika stone Quarry-5, At:- Udbilika, Khata No121, Plot No-665/P, Kissam-PARBAT (84° 06' 05.06" to 84°06' 12.44", & 20°44'34.72" to 20°44'43.33")	5.260	PA-18.1/BR-22.2	18.1	YES	Not operational	220920	Existing
C1	Bikrampur stone Quarry-ka, At:- Bikrampur, Khata No32, Plot No-109(P) , Kissam-PAATHARABANI (83°59' 07.8" to 83°59' 12.6", & 20°44'13.9" to 20°44'18.6")	1.214	PA-17.4/BR-12.8	17.4	YES	Not obtained	53640	Existing
C2	Bikrampur stone Quarry-kha, At:- Bikrampur, Khata No32, Plot No-109(P) , Kissam-PAATHARABANI (83°59' 09.1" to 83° 59' 13.7", & 20°44'11.7" to 20°44'16.2")	1.028	PA-17.5/BR-12.6	17.5	YES	Not obtained	48600	Existing
C3	Dedhenmal-1 stone Quarry, At:- Dedhenmal , Khata No-195, Plot No-1723/A , Kissam-PAATHARABANI 20°28'34.55"N & 83°41'22.58"E)	0.242	PA-1.43/BR-1.96	1.43	NO	Not operational	8712	Existing

Final Cluster & Contiguous Cluster details

Clusters:

Cluster No.	Lease No	Location	Village	Area (in Ha)	Total Excavation (Cum)	Total Mineral Excavation (Cum)
1	A2	Kharabhuin Jungle-II stone quarry, At:- Kharabhuin, Khata No-2, Plot No-01/A, Kissam-PARBAT (84°31'40.24" to 84°31'48.25", & 20°34'42.64" to 20°34'49.04")	Kharabhuin	2.023	9020	8118
	A5	Kharabhuin Jungle-III stone quarry (Quarry permit), At:- Kharabhuin, Khata No2, Plot No-01/B&02/B, Kissam-PARBAT (84°31'45.68" to 84°31'54.20", & 20°34'44.53" to 20°34'50.72")	Kharabhuin	2.833	5555.6	5000
2	B1	Udbilika stone Quarry-1, At:- Udbilika, Khata No121, Plot No-752, Kissam-PARBAT (84°5'50.81" to 84°5'59.32", & 20°44'26.12" to 20°44'27.66")	Udbilika	0.89	5565.6	5009
	B2	Udbilika stone Quarry-2, At:- Udbilika, Khata No121, Plot No-756, Kissam-PARBAT (84°5'47.97" to 84°5'51.03", & 20°44'39.24" to 20°44'42.58")	Udbilika	0.809	5561.2	5005
	B3	Udbilika stone Quarry-3, At:- Udbilika, Khata No121, Plot No-753/B, Kissam-PARBAT (84°05'58.00" to 84°06'01.60", & 20°44'39.27" to 20°44'41.90")	Udbilika	0.809	5575.6	5018
	B4	Udbilika stone Quarry-4, At:- Udbilika, Khata No121, Plot No-753, Kissam-PARBAT (84°06'04.98" to 84°06'08.55", & 20°44'39.26" to 20°44'41.84")	Udbilika	0.809	5600	5040
	B6	Udbilika stone Quarry-6, At:- Udbilika, Khata No121, Plot No-756, Kissam-PARBAT (84° 06' 01.40" to 84° 06' 08.57", & 20° 44' 39.27" to 20° 44' 45.91")	Udbilika	4.047	Not operational	Not operational
	B7	Udbilika stone Quarry-5, At:- Udbilika, Khata No121, Plot No-665/P, Kissam-PARBAT (84° 06' 05.06" to 84°06' 12.44", & 20°44'34.72" to 20°44'43.33")	Udbilika	5.26	Not operational	Not operational
3	C1	Bikrampur stone Quarry-ka, At:- Bikrampur, Khata No32, Plot No-109(P) , Kissam-PAATHARABANI (83°59' 07.8" to 83°59' 12.6", & 20°44'13.9" to 20°44'18.6")	Bikrampur	1.214	Not obtained	Not obtained
	C2	Bikrampur stone Quarry-kha, At:- Bikrampur, Khata No32, Plot No-109(P) , Kissam-PAATHARABANI (83°59' 09.1" to 83° 59' 13.7", & 20°44'11.7" to 20°44'16.2")	Bikrampur	1.028	Not obtained	Not obtained

Contiguous Clusters:

River Name	Contiguous Cluster No.	Cluster No	Number of leases in the cluster	Location (Riverbed/ Patta Land)	Distance between clusters	Village	Area of Cluster (Ha)	Total Mineral Excavation. (Ton)
NA	NA	NA	NA	NA	NA	NA	NA	NA

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	SH-23	1	6	0.26	BLACK TOPPED	BLACK TOPPED	Govt	Mouza- Kharabhuin, SH-23-0.26
A2	SH-23	1		1.16	BLACK TOPPED	BLACK TOPPED	Govt	Mouza- Kharabhuin, SH-23-1.16
A3	SH-23	1		1.4	BLACK TOPPED	BLACK TOPPED	Govt	Mouza- Kharabhuin, SH-23- 1.4
A4	SH-23	1		2	BLACK TOPPED	BLACK TOPPED	Govt	Mouza- Kharabhuin, SH-23-2
A5	SH-23	1		0.63	BLACK TOPPED	BLACK TOPPED	Govt	Mouza- Kharabhuin, SH-23-0.63
A6	SH-23	1		0.24	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Baisipada,SH-23-0.24
B1	NH-57	1	10	8.9	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Udbilika,NH-57-8.9
B2	NH-57	1		9.1	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Udbilika,NH-57-9.1
B3	NH-57	1		10	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Udbilika,NH-57-10
B4	NH-57	1		9.3	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Udbilika,NH-57-9.3
B5	NH-57	1		3.57	BLACK TOPPED	BLACK TOPPED	Govt	Mouza- Damodarpur, NH-57-3.57
B6	NH-57	1		9.5	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Udbilika,NH-57-9.5
B7	NH-57	1		10.2	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Udbilika,NH-57-10.2
C1	NH-57	1		15.5	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Bikrampur, NH-57-15.5
C2	NH-57	1		15.6	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Bikrampur,NH-57-15.6
C3	SH-41	1		1.9	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Dedhenmal,SH-41-1.9

Cluster No.	Transportation Route No.	Number of tippers/days of cluster	Number of tippers/ days 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
A2	SH-23	3	5	1.16	BLACK TOPPED	BLACK TOPPED	Govt	Mouza- Kharabhuin, SH-24-1.16
A5	SH-23	2		0.63	BLACK TOPPED	BLACK TOPPED	Govt	Mouza- Kharabhuin, SH-27-0.63
B1	NH-57	2	12	8.9	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Udbilika,NH-57-8.9
B2	NH-57	2		9.1	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Udbilika,NH-57-9.1
B3	NH-57	2		10	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Udbilika,NH-57-10
B4	NH-57	2		9.3	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Udbilika,NH-57-9.3
B6	NH-57	1		9.5	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Udbilika,NH-57-9.5
B7	NH-57	1		10.2	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Udbilika,NH-57-10.2
C1	NH-57	1		15.5	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Bikrampur, NH-57-15.5
C2	NH-57	1		15.6	BLACK TOPPED	BLACK TOPPED	Govt	Mouza-Bikrampur,NH-57-15.6