DISTRICT SURVEY REPORT (DSR)

OF

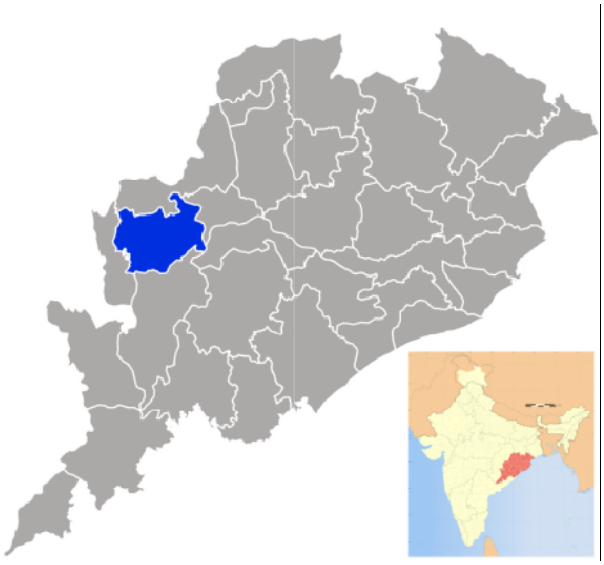
BALANGIR DISTRICT, ODISHA.

FOR

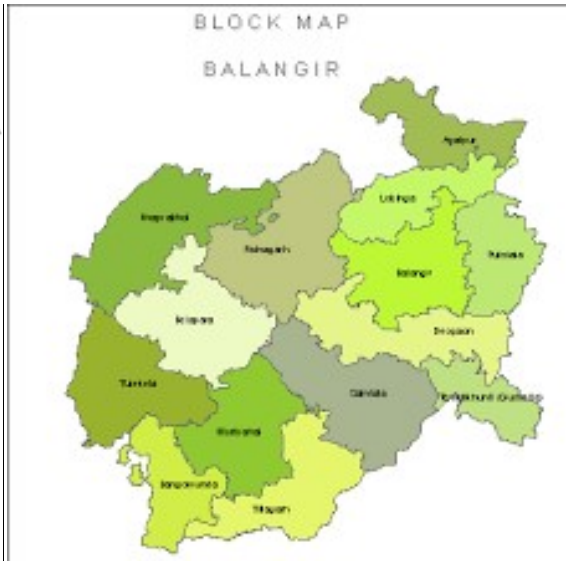
ROAD METAL/BUILDING STONE/BLACK STONE

(FOR PLANNING & EXPLOITATION OF MINOR MINERAL RESOURCES)

ODISHA



BALANGIR



As per Notification No. S.O. 3611(E) New Delhi dated 25th July 2018 of

Ministry of Environment, Forest & Climate Change

(MoEF & CC)

MARCH - 2021

COLLECTORATE BALANGIR

CONTENT

30.04.2024
Deputy Collector
Collectorate, Balangir

30/4/24
Additional District Magistrate
Balangir

Collector, Balangir

PREAMBLE

Balangir is a city and municipality, the headquarters of Balangir district in the state of Odisha, India. Balangir has a rich cultural heritage. It is also known as the cultural hub of Western Odisha. Balangir municipality is divided into twenty one wards. It is spread over an area of 12,200 acres (4,900 ha). Balangir is a unique District in Odisha lies on the western most part of the State with rich and varied mineral resource.

In pursuance of MoEF & CC Notification S.O. 141(E) dated 15th Jan. 2016, District Environment Impact Assessment Authority (DEIAA) & District level Expert Appraisal Committee (DEAC) has been formed for Category –B2 Minor Minerals having area less than or equal to 5 ha. Prior to the formation of Odisha Minor Mineral Concession Rule 2004, (OMMCR -2004) the mining operation for minor mineral were carried out in unscientific manner. Identifying this fact in exercise of power, Conferred by Section 15 by Mines and Minerals (Development and Regulation) Act 1957 as amended in 2015 and all other powers enabling it in that behalf, the industry Mines & Geology Department, Govt. of Odisha framed the aforementioned rule, which has been amended with period of times in the year 2014, 2015 and 2016.

Keeping in view of experience gained in period of decade, the MoEF & CC came out with Environmental Impact Assessment Notification S.O.-1533(E) dated 14th Sept. 2006. It has been made mandatory to obtain environmental clearance for different kinds of development projects as listed in Scheduled -I of notification. Further, pursuance of the order of Hon' ble Supreme Court Petition (C) No. 19628- 19629 of 2009, dated 27th Feb. 2012 In the matter of Deepak Kumar etc., Vs State of Haryana and others etc., Prior Environmental Clearance has now become mandatory for mining of Minor Minerals irrespective of the area of Mining Lease. And also in view of the Hon' ble National Green Tribunal, order dated the 13th Jan. 2015 the matter regarding Sand, Brick Earth, & Burrowed Earth cutting for Road Construction has to take prior E.C. for Mining Lease irrespective of the fact that whether the area involved is more or less than 5 hectares. They also suggested to
make a policy on E.C for minor minerals lease in cluster.

MoEF & CC in consultation with State Government has prepared Guidelines on Sustainable Sand Mining & Minor minerals other than sand mining in 2016, detailing

the provisions on Environmental Clearance for cluster. Creation of District Environmental Impact Assessment Authority (DEIAA) & proper monitoring of Minor Minerals. Mining, using Information Technology to track the mineral out material from source to destination.

DEAC will scrutinize and recommend the prior environmental clearance of mining of minor mineral to DEIAA on basis of District Survey Report. This will model and guiding document which is a compendium of available mineral resources, geographical setup, Environmental and Ecological set up of the District and replenishment of minerals and is based on data of various departments, published reports, Journal and websites. The District Survey Report will form the basis for application for Environmental Clearance, preparation of reports and appraisal of projects. District Survey Reports are to be reviewed once in every five years as per statue, however this is an interim report, which will be updated at regular intervals. In lieu of above guideline Chief Secretary of Government of Odisha issued a letter to all DEIAA, to prepare a District Survey Report as per guideline of sustainable sand mining & other than sand mining as minor mineral mining guidelines with the assistance of Irrigation Department (Minor Irrigation), Forest Department, Mining & Geology Departments, considering the recent amendment S.O. 3611 (E) dated 25th July, 2018.

The Main objective of the preparation of District Survey Report is to ensure the following:-

1. Identification of Mineral Resources in the District.
2. Identification of areas of minor minerals having the potentiality where mining can be allowed.
3. Identification of area and proximity to infrastructure and installations where mining should be prohibited.

INTRODUCTION

Balangir at a Glance:

1.1 Location and Geographical Area;

The Balangir District is surrounded by Subarnapur district in east, Nuapada District in the west, Kalahandi District in the south and Bargarh District in the north. The District lies between $20^0$11'40 to 21^0 05'08 degree north latitude and $82^0$41'15 to $83^0$40'22 East longitude. The District covers an area of 6575 sq.km.

The district of Balangir is flanked in the north-west by the Gandhamardan hills, a name of the Ramayana Fame, and in the north-east by the rock-infested Mahanadi. It is traversed by many hill streams and is interspersed with the evergreen woodlands, the shelter of Bison and Sambar. The main forest area stretches along the western boundary bordering the Nuapada, Kalahandi district and then turns to the east running parallel to the Gandhamardan range. This forest track is broken by occasional clearings and small settlements, but it mostly consists of thick vegetation in which bamboo of excellent quality grows and Sal, Sahaj, Piasal, Dhaura and Ebony form the principal timber. The crest of the range of Gandhamardan hills is fine platue, some ten miles long, with an average height of 3000 feet. For most part of this district lies on the north-west bank of river Tel, which form the boundary between his district and the district of Kalahandi, Sonepur, Boudh and Kandhamal.

The district has many rivers and perennial streams. Almost the entire Bolangir district is drained by nine rivers namely Mahanadi,Tel, Undar, Lanth, Sungadh and Sukhtel (Tributaries of the Tel),Ang, Jira, Saleshing.

Hill System

Mathkhai, The Sacred Hill on the outskirt of Balangir City also a Landmark of the District.

- Gandhamardan (3,296 ft)
- Butel (2,670 ft)
- Chahdli (2,630 ft)
- Thuta (2,056 ft)
- Bender (1,920 ft)
- Patpani
- Chhatardandi
- Matkhai (2,591)

It is best known for Harisankar Temple. The Ordnance Factory is located 45 km South of Balangir. It is the largest city of Western Odisha. The District is divided into 3 Sub-Divisions namely 1) Balangir, 2) Patnagarh and , 3) Titalagarh. It has 1794 villages covering 14 Blocks, 14 Tahasils. Balangir is the main town of the District and is also its centre of economic growth. The primary occupation of people in the District is cultivation. This District is mainly known for cultivation of paddy. Because rice is the staple cereal of the local people. Hybrid varieties of seeds are being developed and land reform programs are being planned for the maximum usage of the wastelands, promising to enhance the District's economic stability in the near future. Industries, Agriculture and Tourism are the four major Revenue Sources of Balangir District**.** The District Industries Centre, Balangir has been functioning since 1978, in order to provide service to the people of Balangir District in all respects of industrial promotion i.e. preparation of project reports, facilitating financial assistance from financing institutions, marketing assistance, allotment of Govt. land and shed, Raw–material recommendation, imparting of Entrepreneurship Development Training to prospective entrepreneurs and providing different technical know–how etc under one roof. There are no of industries are present in the Bolangir District.

1. No. of Small Scale Industries (Working) – 1066
2. No. of Large / Medium Industries – 6

Different Types Of Sophisticated Industries Existing In Balangir (Item Wise)		
Sl. No.	**Type of Industries existing.**	**No.of units.**
1	Aluminium Utensils	08
2	Automatic Bakery Unit	9
3	Automatic Rice Mills	65
4	Auto – Offset Printing	4
5	Ayurvedic Medicine	1
6	Cold Storage	1
7	Coolers	15
8	Corn Flakes	2
9	Cotton Ginning Mill	10
10	Detergent Powder & Cake	2
11	Digital Colour Photo Lab	3
12	Engineering Workshop	20
13	Flax Printing	6
14	Flour Mill	3
15	Fly Ash Bricks	20

16	Gem stone cutting & Polishing	2
17	Granite Cutting & Polishing	11
18	Graphite Crucible	1
19	Graphite Beneficiation Plant	12
20	Gudakhu Factory	2
21	Handloom Weaving Factory	8
22	Hot Mix Plant	1
23	Hotel & Lodge	14
24	Leather Foot Wear	4
25	Modern Dal Mill	2
26	Oil Mill	4
27	Packaged Drinking Water	6
28	Pesticides & Insecticides	2
29	Pharmaceutical Tablet Units	1
30	Phenyle	2
31	Pressed Leaf Cup & Plate Mfg./Paper Plate	12
32	Plastic Glass	2
33	Sophisticated Readymade Garments	5
34	Sortex Rice	12
35	Steel Furniture With Hot Chamber	3
36	Stone Crushers	15
37	Tufted Woolen Carpets	3
38	Therm Cool Sheet	2
39	Transformer assembling & Repairing	2
40	Tyre Retreading	9
41	Vermicelli	2

Bolangir district is situated in the western side of the state of Odisha, extending from $82^0$41' to $83^0$42' East longitude and 200 9' to 210 05' north latitude. Generally the climate of the district is hot & moist sub-humid**.** Broadly the district has Red & Yellow, Red & Black, Black, Late–rite, Black Cotton Soil and Brown forest soil with alluvium soil and intersected by the perennial rivers, which collectively provides conducive infrastructure for the growth of agriculture in the region. Rice, Pulses, oil seeds like Groundnut, Mustard, Castor and linseed are grown in the District of Balangir. The District has a rich mineral base of soft stones, limestone, stone chips are available in the District, which are mainly used in industrial units in the District. The huge deposits of granite stones at all the tahasil regions provides tremendous scope for development of few more industries.

Bolangir district with its fascinating natural beauty, rich tribal cultural heritage has a potential reserve of graphite, bauxite, Galena, & manganese.

1.2 Administrative Units:-

Balangir is the Administrative Headquarter of Balangir District. It is located at a distance of 319 km from Bhubaneswar, State Capital of Odisha. In accordance to the area, the District is the the 3rd largest weastern Odisha Districts of Odisha. It has 1794 villages covering 14 Blocks, 14 Tahasils and 3 Sub-Divisions. The District is divided into 3 Sub-Divisions namely 1) Balangir, 2) Patnagarh and , 3) Titalagarh.

The total population of the District is 13,79,647 according to the 2011 Census.

Sl No	Unit	Total	Male	Female
1	Population (Total) - 2011	1,648,997	830,097	818,900
2	ST Population	3,47,164	1,72,489	1,74,675
3	SC population	294,777	148,356	146,421
4	Literacy (Total)	927,260	545,672	381,588

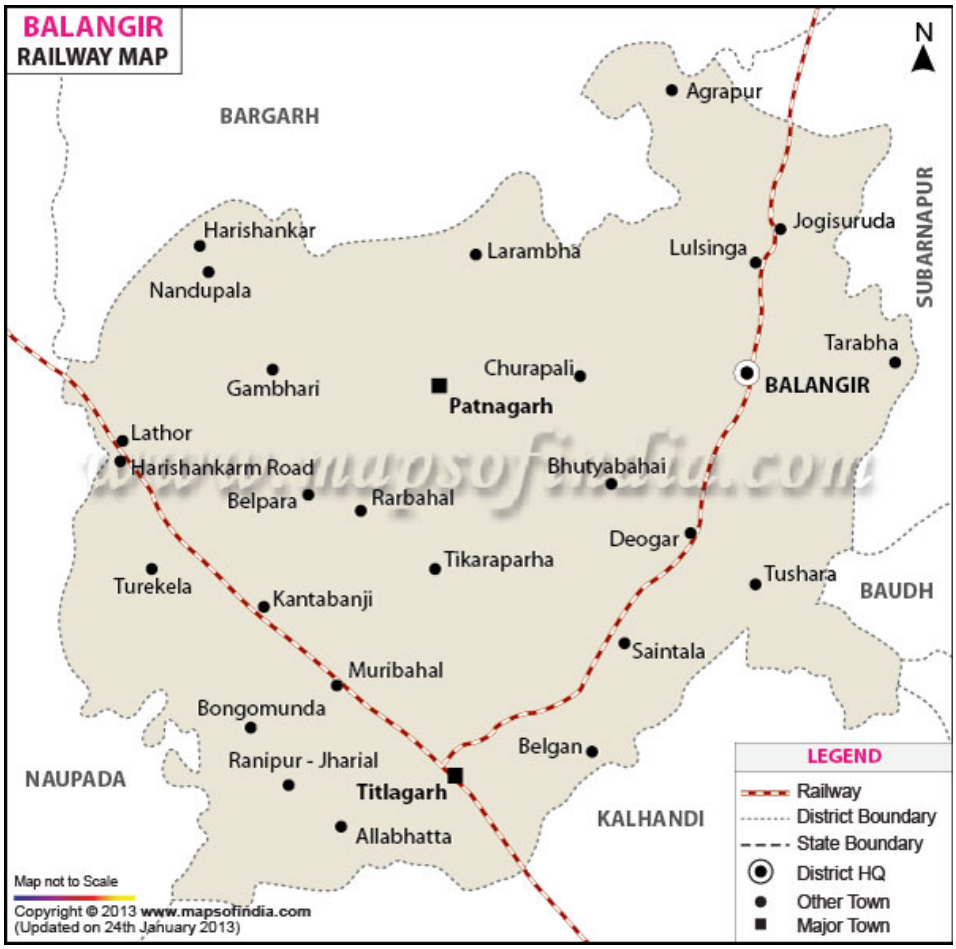
1.3 Connectivity facilities:-

Road Network

The District is well served by a network of good roads. The chief road emanating from Balangir town is NH-201 passes through the District. Balangir Town is about 79 Kms from Bargarh, 119 Kms from Nuapada, 237 Kms from Kalahandi, 98 Kms from Boudh, and 49 Kms from Subarnapur. It is also connected with other cities such as Nabarangpur, Koraput, Ganjam, Khordha, Nayagarh, and Boudh via Odisha State Road Transport Corporation and some private travel services.

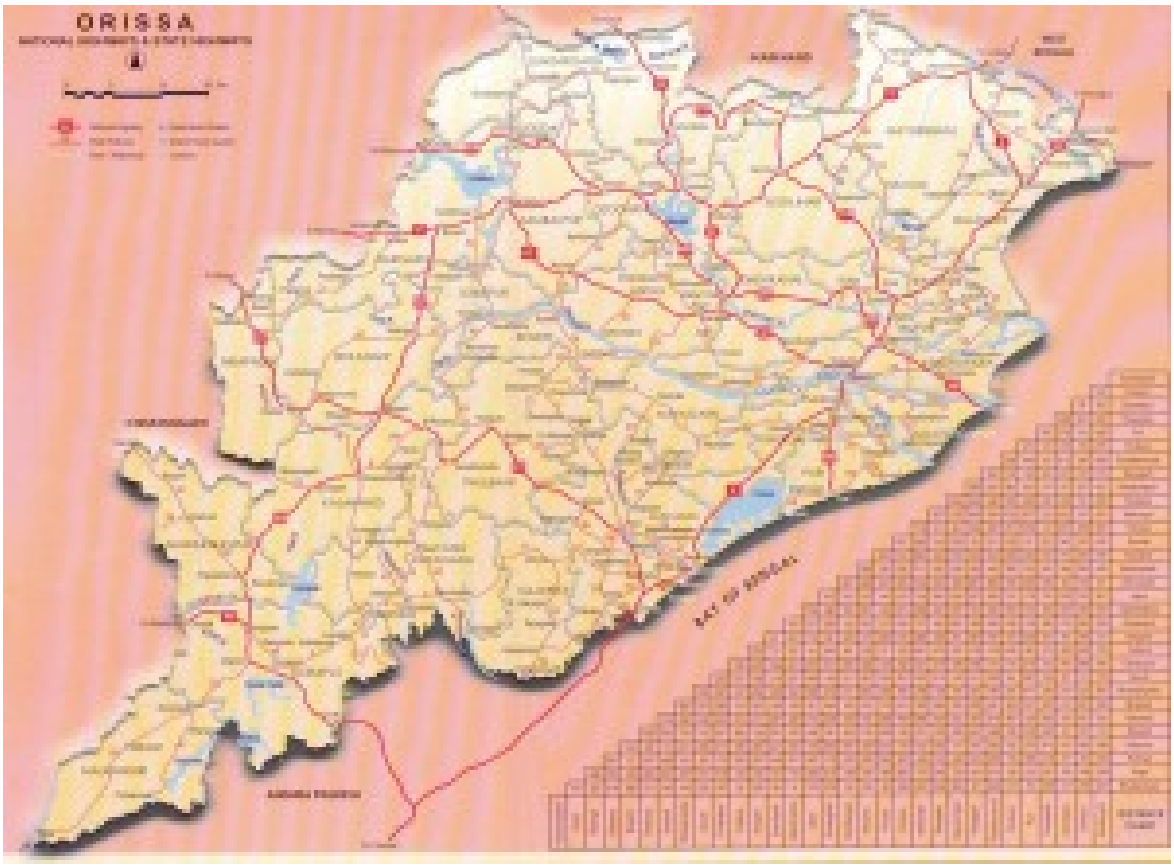
Rail Network

Balangir District is well connected by Rail link to different places, Balangir railway station is a railway station which serves Balangir district in Indian state of Odisha. The **Jharsuguda–Vizianagaram line** is a railway line in western India. It connects Jharsuguda, on the Howrah-Nagpur-Mumbai line, and Titlagarh, which in turn is connected with Vizianagaram, on the Howrah-Chennai main line, and Raipur, There are several branch lines, like the one connecting Rayagada with Koraput on the Kothavalasa-Kirandul line. The **Khurda Road–Bolangir line** is a rail line between Khurda Road Junction and Balangir which is under construction. The distance to Raipur is approximately 283 km, while the distance to Bhubaneswar is about 317 km; the city of Balangir is well connected to many places in India like Nayagarh, Phulbani, Baragarh, and Jharsuguda, Rourkela wiith Bhubaneswar sambalpur.



Air Network

The Jharsuguda Airport at Jharsuguda is the nearest airport to the city while Swami Vivekananda Airport at Raipur, Chhattisgarh is 234 km away. Biju Patnaik International Airport in the state capital, Bhubaneswar is 327 km away by road and 397 km by rail.



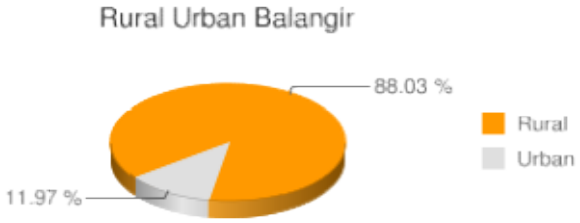
2. OVERVIEW OF MINING ACTIVITY IN THE DISTRICT:

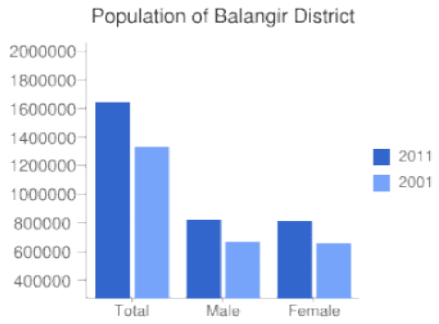
A great variety of ores and minerals occur in this distriict. Of these, the important ones are graphite, Galena(Lead ore), Manganese ore and Bauxite.Balangir District is a transition land features of both coastal plain and hilly region. Most of the mineralized area coming under Eco-Sensitive Zone, mining activity only confined out of safety zone of Eco-Sensitive Zone. The mining activity in the District is only restricted to minor minerals i.e. of sand, stone, granite and brick clays. Altogether there are leases of stone, granite and sand which has been granted to the District is regulated as per minerals concession rules of Odisha, there is no lease of major mineral in the District. At present Leases of stone, sand and bricks making units are operational in the District. Stone chips, granite stones, ordinary sand constitute the principal mining activity of all the tahasil area of Balangir District. which have been provides tremendous scope for development of few more Industries based on this resources.

3.0 .GENERAL PROFILE OF THE DISTRICT:

3.1 Demography:

Census – 2011	
Geographical Area	3806 Sq. Km.
Total population	1,648,997
Male Population	830,097
Female Population	818,900
Male Literacy	545,672
Female Literacy	381,588
SC Male	148,356
SC Female	146,421
ST Male	1,72,489
ST Female	1,74,675
Illiterate Male	2,84,425
Illiterate Female	437312





4.0 GEOLOGY OF THE DISTRICT:

Balangir district constitutes a portion of the peninsular reunion. It has largely remained a table-land, a mass of great rigidity and has not been affected by inner movements of the earth through some portions of the peninsular India has been affected by structural disturbance of vertical nature.

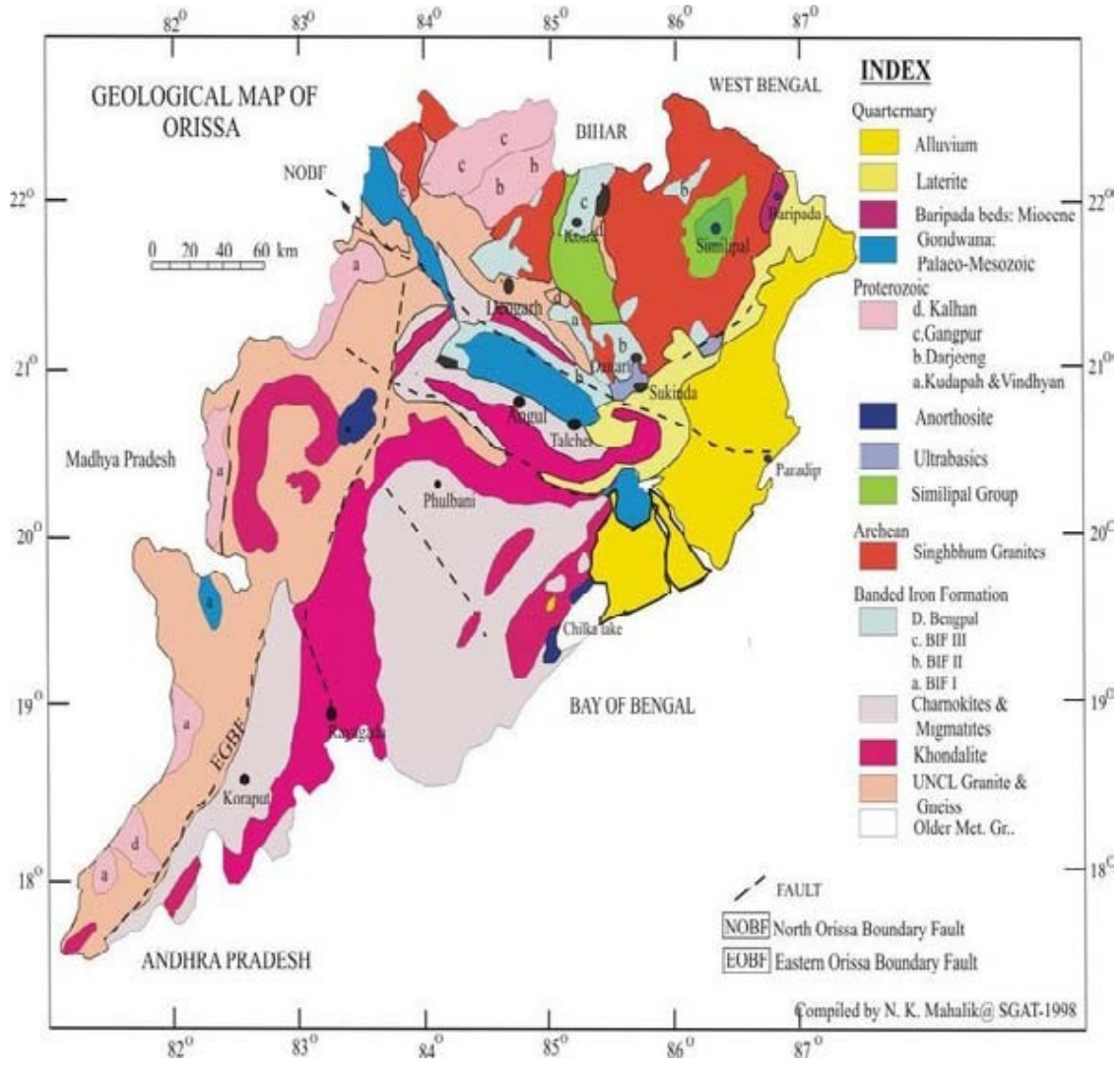
The Archean formations of the eastern Ghat region, rerpresented mainly by the rocks of the Khondalite series, extend up to the western limit of the district. The next younger series of rocks, in this area consisting of garnetiferous gneisses are thought to be the products of hybridism between the cale silicate rocks and aplitic solutions. The concluding phases of the Archean in the Mahanadi tracts have been marked by a large scale intrusion of very coarse grained, often porphyritic granite with the accompanying pegmatite facies. Large scale felspathisation of the older rocks, particularly the granulitic rocks and the leptynitic gneisses resulted in avariety of injection gneisses.

The next younger formatiions in this area consists of certain fresh water sediments perhaps of lower Gondwana (Talchir stage) age and are exposed as isolated sandstone patches in the Tel Valley.

The youngest geological formations of the area are laterite an alluvium, the former occurring extensively as surface capping on the plains as well as on the 3,000 foot high Gandhamardan Plateau.

The areas represent parts of the Eastern Ghat Super Group comprising strongly metamorphosed rocks viz. Khondalites (and their migmatitic derivatives), calc granulites and garnetiferous quartzite associated with granite gneisses, pegmatites and quartz veins. The stratigraphic sequence established by earlier workers and confirmed by the present authors for these areas is as follows:-

			alluvium & soil Laterite
			Pegmatite & quartz veins
			Granite gneisses
			Migmatites
ARCHAEAN	Eastern Ghat Supergroup	Charnockite Formation	Pyroxene- granulite
		Khondalite formation	Khondalite, calc-Granulate quartzite.


GEOLOGICAL MAP OF ORISSA
INDEX
WEST BENGAL
BIHAR
NOBF
Madhya Pradesh
BAY OF BENGAL
ANDHRA PRADESH
EGBF
Koraput
Phulbani
Angul
Talcher
Sukinda
Paradip
Chilka lake
Similipal
Baripada
0 20 40 60 km
Quarternary
Alluvium
Laterite
Baripada beds: Miocene
Gondwana: Palaeo-Mesozoic
Proterozoic
d. Kalhan
c.Gangpur
b.Darjeeng
a.Kudapah &Vindhyan
Anorthosite
Ultrabasics
Similipal Group
Archean
Singhbhum Granites
Banded Iron Formation
D. Bengpal
c. BIF III
b. BIF II
a. BIF I
Charnokites & Migmatites
Khondalite
UNCL Granite & Gneiss
Older Met. Gr..
FAULT
NOBF North Orissa Boundary Fault
EOBF Eastern Orissa Boundary Fault
Compiled by N. K. Mahalik@ SGAT-1998
82°
83°
84°
85°
86°
87°
22°
21°
20°
19°
18°

Khondalite formations:

Khondalites, sensu strict, are as vary scares in the areas as a result of extensive migmatisation. Portions of these rocks, which are much less migmatised with leuco-somes 10% or less, form in general, high conical hills that support thick vegitation and stand out prominently in an otherwise undulating rolling country.

Such hills are generally made up of gneissic khondalite. The Kalinili hill west of Sanbanki as well as the hill further north and the hill east of Sapmund are made up of this type of rock. The schistose variety, on the other hand, is exposed in the nalas and foothills close to those hills.
The rock is greyish to reddish brown in colour, medium grained, foliated and consists of quartz, garnet, sillimanite, graphite and a little feldspars. The reddish brown colour is the result of limonitisation of garnet. Under the microscope, it consists of xenomorphic and strained, quartz, stumpy needles of
sillimanite with transverse cracks, limonitised garnet showing diablastic structure and biotite altering from garnet mostly along cracks and peripheries. Graphite occurs as greyish black flakes. Both perthite and K-feldspar are present.

The garnetiferous quartzite forms small hillocks east and NE of Bariali, east of Dholmandal and west of mahulpati. The rock stands out prominently as hills and ranges because of its resistant nature.
The quartzite is a granular rock, greyish in colour and dotted with conspicuous reddish garnet. In some cases, e.g. on the hill near Bariali, a little biotite is present in the rock. Sometimes occasional sillimanite needles are noticed. It is generally devoid of graphite except for .a few flakes as noted in the east of Dholmandel

The calc-granulite forms linear bands within the migmatised khondalite terrain and is intricately folded. This rock is exposed in the west Bariali and extends discontinuously along the strike further NE following the course of the Lant river (Plate-II.). The total strike length of the band between Bariali and east of 1561 hill is about 10km. Another band is continuous for about 4km between east of Debriamunda and east 1561 hill. The other bands are exposed near Kharli, Debriamunda, and north of Harishankar Road (foot hills of 1561). The width of the bands are varies from 3m to 10m. Bands of 1m or less width are exposed in Thongajhar nala east of Jamki and Sanbanki. Differential weathering has given the rock a serrated appearance.
Megascopically, the rock is medium grained and pale in colour. Under the microscope, it shows granulitic texture and is found to contain diopside, quartz, calcite, scapolite and sphene. Garnet is rarely present.

Pyroxene granulite:

Pyroxene granulite occurs as isolated small outcrop on either side of the forest road connecting Harishankar Road Rly. Station with Ghagruli, about 6km away. This is the only outcrop of pyroxene granulite where it forms small humps standing out from the surrounding soil cover area. Its contact with the other litho-units is concealed.

The rock is medium grained, dark in colour and very compact. It shows granulitic texture under the microscope and consists of hypersthenes, diopside, plagioclase (andesine to labradorite), garnet and quartz with some opaque. Incipient alteration of garnet to biotite at the margin it noticed.

Migmatites:

Migmatite is hybrid rock containing an admixture of palaeosomes and leucosomes (neosomes) in various proportions. Strictly speaking, all the lithounits of the areas examined are migmatised to some extent or the other. But the khondalitic rocks being most prominent of the metasedimentaries, the migmatites formed after Khondalites are by far more conspicuous and prominently developed. The migmatite bodies are concordant to the regiona1 trend of the rock units and are confined to the low lying soil covered tracts where these are expose mainly in nala cuttings. Outcrops of migmatites are in Thongajhar nala east or Sanbanki and Jamki, Pandrapatranala, Palsakaninala and the nalas east of Gargarbahal, Lant river sections, south and north of Telenpali (Plate I). In all these outcrops the rocks considered to be migmatites have leucosomes varying from 10% and above. The ratio of palaeosomes, leucosome varies from more than 80:20 to as low as 20:80. The known graphite deposits fall within the migmatite zones.

The various migmatitic structures noted are stromatic, scholl1en and schollen types (Mehenerti, 1968). Of these, the stromatic in which veins of neosome alternate with palaeosomes is the most common. The schollen structure is noted in Pandrapatra and Palsakaninala where small sillimanite lumps are included within the leucosome. Development of biotite and garnet at the contact of leucosomes and palaeosomes is common.

Megascopically, the migmatites have a general gneissic appearance as a result of alternation of the paleosomes and neosomes. Under the microscope, the schistose structure is prominent. A mineral assemblage of K-feldspar, microperthite, quartz and garnet with minor amounts of biotite, sillimanite and opaques are seen. The feldspars are later developed and enclose sillimanite needle and biotite flakes partially or fully. Garnet alters to biotite at the margin. Graphite normally occupies the inter-granular space.

Granite gneisses:

Granite gneisses occupy a major part of the areas examined. Two distinct types of granite gneisses are discernible non-porphyroblastic (garnetiferous) and porphyroblastic, of which the latter is predominant.

The non-porphyroblastic granite gneiss is exposed on a smell ridge south-west of Dhusamunda and has a few isolated outcrops further west. Small concordant tongues of this rock within the migmatites are exposed in Pendrapatra, Thongajhor and Palsakaninalas. Relicts of the rock within porphyroblastic granite gneiss are observed on the hill in Patpani R.F area indicating an older age of the former.

The rock is leucocratic, medium grained and shows well developed gneissosity. It contains K-feldspar, perthite, quartz garnet and biotite. The quartz grains in the rock are stretched (flattened) at some places.

The porphyroblastic granite forms a continuous ridge in Patpani and Chandil R.F. areas apart from the small ters, Whalebacks and ruwares in the planes between Bardakle on the south of Jalpankel on the north (Plate I).It has intruded into all other units described above along their foliation planes.

The rock is leucocratic and consists of large porphyroblasts of feldspar (long axis varying from 2cm to 15cm, showing a crude gneissosity), quartz, garnet and biotite. At the contact with the older rocks, segregated zones of garnet and biotite are noticed. Sometimes growth of feldspar is impeded by garnets suggesting a later origin of porphyroblasts. This may be due to alkali metasomatism at a deeper tectonic level after the development of garnet.

Under the microscope, it shows porphyroblastic texture and consists of plagioclase (oligocase-andesine), perthite, quartz, garnet, biotite with apatite as accessory. The rock is granodioritic in composition.

Pegmatite and quartz veins:

Depending upon the mineral assemblages, three types of pegmatites are identified. These have the fo1lowing compositions:

i) Quartz-feldspar-biotite-garnet with or without clots of graphite

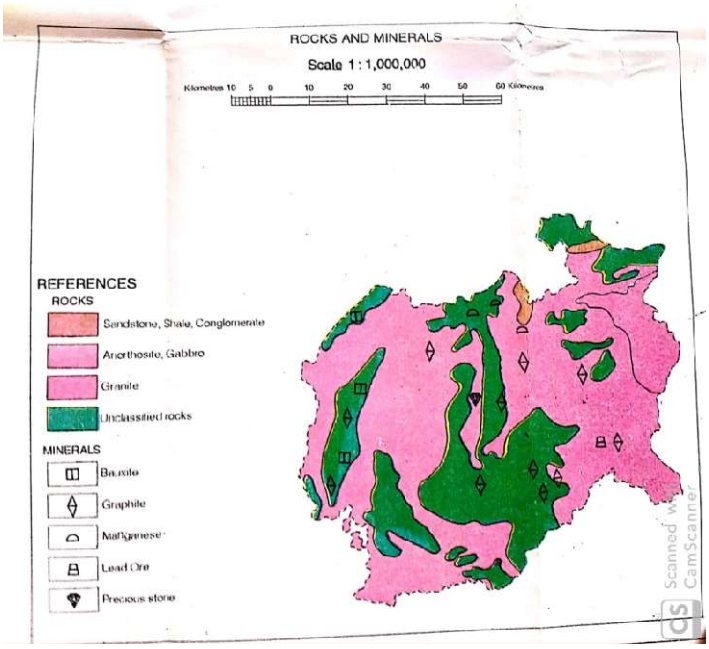
ii) Quartz-feldspar-garnet -biotite -muscovite-tourmaline.

iii) Quartz-feldspar-with or without garnet and graphite

The pegmatite bodies are frequent within the migmatite zone and run parallel to the host rock foliation with sharp contact as seen east, west and north of Jamki.

The third type has a gradational contact with the host rock and is exposed mainly in graphite quarries near Chormunda and Sapmand and to the south of Sanbanki, The second type has mainly E-W to NW-SE trends. This type of pegmatite is reported to be clandestinely excavated for precious stores (mainly acquamarine and topaz). The width of pegmatite bodies vary from less than a meter to more than 3m. One such excavation was noted in the nala NNW of Karuanajhor.

Two quartz veins are noted about 2.5km south-east of Lathor and 1.5km SW of Gargarbahal. These are highly fractured and sheared. The quartz is milky white in colour.



Structure:

Foliation: The Khondalite and the associated rocks display well developed foliation as a result of preferred orientation of sillimanite needles graphite flakes and other platy minerals. Alternation of quartz-feldspathic bands with garnet rich bands is also quite prominent. The regional trend of foliation varies from NNE-SSW to NE-SW with steep easterly dips 35° to 70° (Plate I). In the Bakbahal R.F. area the strike is confined between N-S and NNE-SSW directions with local variation to NW-SSE (Plate I). The dip is sometimes as low as 10° in this part. The porphyroblastic granite displays a crude gneissosity with a linear arrangement of feldspar porphyroblasts.

Folds:

The general parallelism of foliation indicates isoclinal to overturned nature of the regional fold pattern. Such folds on minor scale are well preserved in calc-granulites. The tight folds preserved in this rock have axial

plane parallel or sub-parallel to the foliation with fold axes plunging 15° to 30° towards NNE. Later warping with plunge at 35° to 45° towards east, among along NW-SE and E-W axes is observed in calc-granulites. This explains the swing in strike locally from NNW-SSE to NNE-SSW in Bakbahal R.F. area.

Joints:

The following three prominent sets of joint sets are noted in the areas examined of which the latter two sets are tension joints:

a) NE-SW to NNE-SSW, parallel to foliation

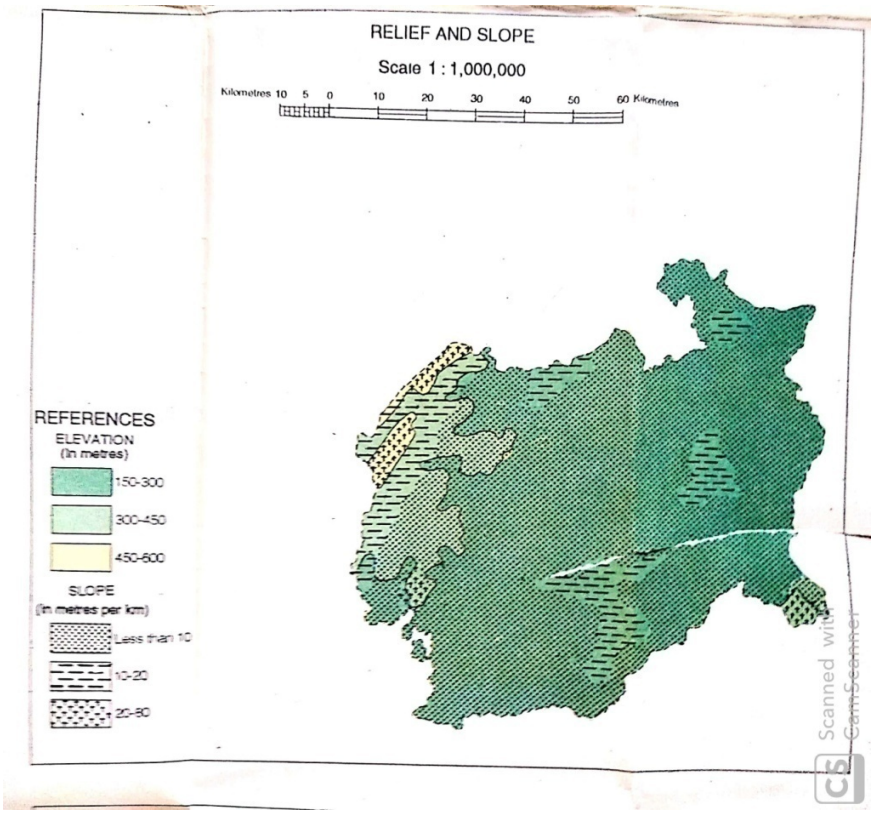
b) NW-SW vertical joint set

c) E - W vertical joint set

These joints are sometimes filled up by pegmatite veins and other quartzo-feldspathic material as seen in Thongajhor, Palsakani and Pandrapatranalas.

Shear Zones:

Shearing parallel to the foliation is evident at many places. As a result of shearing, close spaced joints had developed along with mylonitisation of the rocks. The quartz reef emplaced along the shear zone SW of Gargarbahal and SE of Lathor is much crushed and has close spaced joints parallel to the regional foliation trend. Shearing in migmatites is noted along Thongajhor, Pandrapatranala, Karusnjhar, village, Lant river and WNW of Kandagadh village.

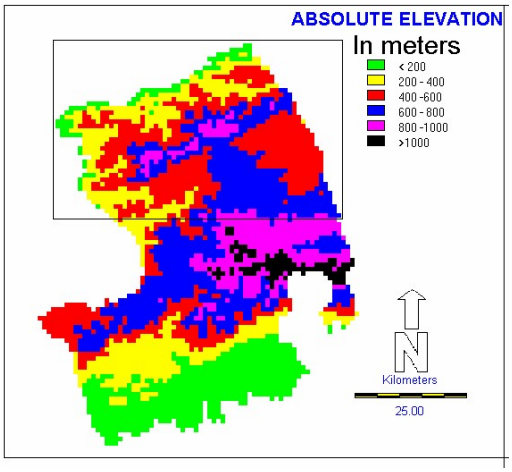


4.1.Physiography &Geomorphology:

Physiography:

The areas examined in the course of the investigation fall south of the arcuate Gandhamardan range forming a water divide. The different hill ranges in the area have NE-SW to ENE-WSW trends in the northern part which swerves to the general N-S direction in the southern part. The Gandhamardan range is a table land having the highest elevation of about 1000m above the MSL. To the SW lies the Chandil range, known as Patpani range in its southern extension. In between the two (Gandhamardan and Patpani ranges) lies a narrow valley. The Patpani range marks the boundary between the two districts of Kalahandi and Bolangir many prominent peaks of heights ranging from 560m to 715m above the MSL make the range quite conspicuous. Another prominent hill, the Chattradandi (810m), lies in the south eastern part of the area. The intervening valleys are extensively soil covered and have a few isolated hills. The area around Sapmund, at the south-eastern foot hills of the Gandhamardan range, has two prominent hills (816m and 518m). Elsewhere in the areas, there are many small hillocks and mounds which range in altitude from 400m to 600m. The general elevation in the areas is about 300m above the MSL.

The drainages of the areas are mostly controlled by joints. In the northern part, the Sukhajhor (also known as Katanginala) flow north-easterly and joins the Suktel River. Perennial nalas descending from the Gandhamardan range feed this higher order stream. In the south, the Lant river forms the major drainage and flows to the NE to join ultimately the Tel river further SE. In the southernmost part, the Arjunnala flows SE and joins the Udanti river. The southern streams are ephemeral in nature.



Geomorphology:

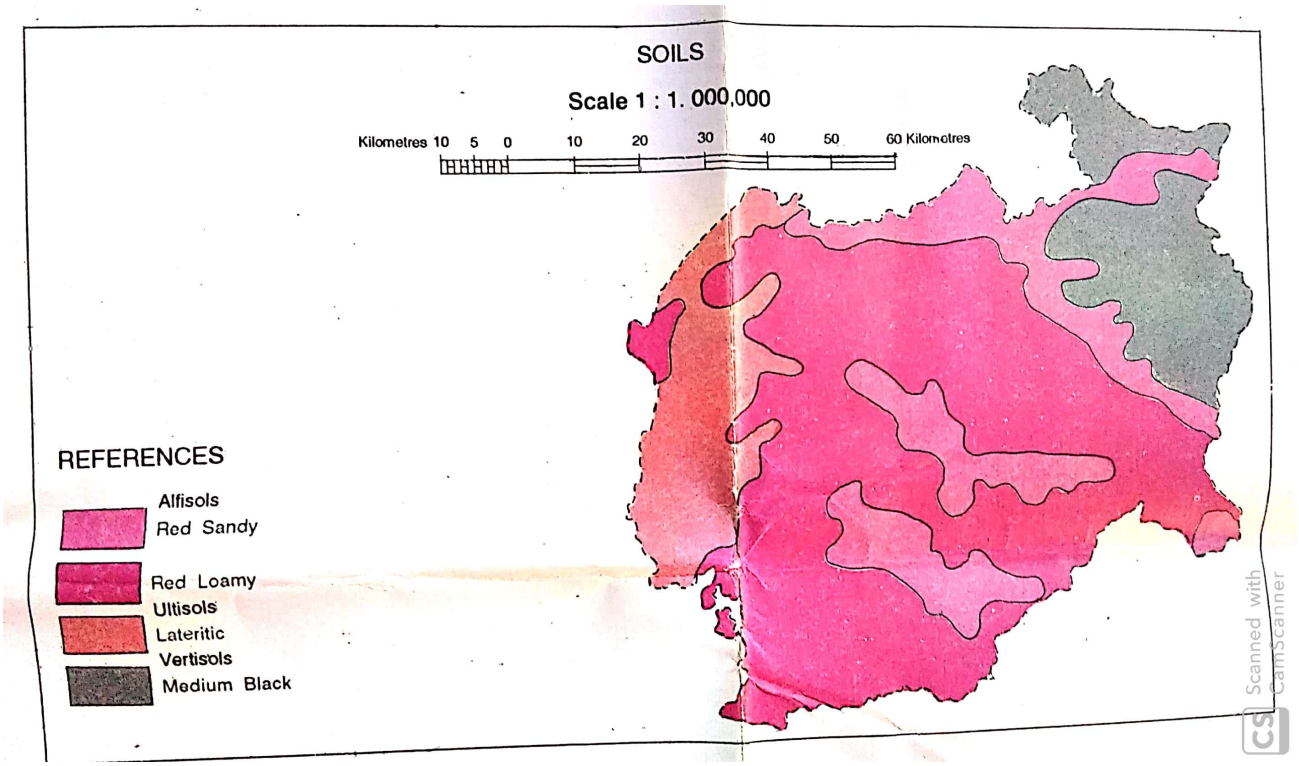
The district can be divided into two broad physiographic units (i) undulating plains (Pediments) dotted with residual hills and (ii) scattered hills and areas with high relief. The undulating plains occupy the central and eastern parts of the district the average elevation being 200m to 300m above mean sea level with a general slope towards east. The areas with high relief and high hills are situated in the north western, western and south eastern parts of the district (Plate-V). The hill ranges belong to the Eastern Ghats having a general trend of Northeast – Southwest. The highest peak is Gandhamardan situated 983 m above mean sea level.

4.2. Soil:

The distribution of different soil types in the district depends much on its physiographic and lithologic variations. Based on the physical and chemical characteristics, mode of origin and occurrence **Alfisols :** It includes red sandy soils and red loamy soils. The red loamy and sandy soils are occurring in major parts of the district. The characteristic features of red soils are (1) light texture, porous and friable structure, (2) absence of lime Kankar and free carbonates and (3) soluble salts in a small quantity usually not exceeding 0.05%. These are usually deficient in nitrogen, phosphate, organic matter and lime. These soils are suitable for cultivation of paddy and other crops.

Ultisols : These are lateritic soils occurring in northwestern part of the district in Khaprakhol block in a limited area. These are characterized by compact to vesicular mass in the subsoil horizons composed essentially of a mixture of the hydrated oxides of aluminum and iron. Due to peculiar granular nature, these soils can be cultivated immediately after heavy rains.

Vertisols : These are medium black soils found in the blocks of Loisinga, Bolangir and Puintala especially in the areas mostly underlain by anorthosite. The soils are highly argillaceous and contain high amount of iron, calcium and magnesium. These are poor in organic matter, nitrogen and phosphorous but rich in potash and lime. The pH varies from neutral to alkaline and texture varies from loam to clayey loam. These are quite fertile soils and the crops grown are generally cotton, wheat, tobacoo and chilly , soils of the district may be classified into three groups namely Alfisols, Ultisols and Vertisols



4.3. Mineral Resources:

Minerals like soft stones, limestone, stone chips are available in the District, which are mainly used in industrial units in the District. The huge deposits of granite stones at all the tahasil area provide tremendous scope for development of few more Industries based on this resources. Except these, no minerals in large quantity which can be explored for commercial purpose found in the District.

5.DRAINAGE OF IRRIGATION PATTERN:

The District has considerable flat land, which provide suitable site for agricultural use. The hilly areas are mostly under forest with patches of cultivation on scarp areas. The district has many rivers and perennial streams. Almost the entire Bolangir district is drained by nine rivers namely Mahanadi,Tel, Undar, Lanth, Sungadh and Sukhtel (Tributaries of the Tel),Ang, Jira, Saleshing.Major crops grown in the District are rice, Only. 12.21 percent area of agricultural use are net irrigated and major source of irrigations are well and tube wells.

5.1.River System:

The district has many rivers and perennial streams. Almost the entire Bolangir district is drained by nine rivers namely Mahanadi,Tel, Undar, Lanth, Sungadh and Sukhtel (Tributaries of the Tel),Ang, Jira, Saleshing.

Industrial Estate and flows from west to east. Amrutia N. flows from NNW to SSE and carries the waste water load of East Coast Fertilizer at Gadadeulia and water laden solid wastes (particularly in rainy season) from the dumping site of Krebs & CIE Ltd. at Kalma. These tributaries join Burhabalang river downstream at Sahupada and Bhimda (outside present area) respectively. There is another local stream, which flows from Southwest to Northeast, carrying the waste water of Birla Tyres Ltd. at Chhanpur and the Industries located at Ganeshwarpur Industrial Estate. This stream too ultimately joins the Burhabalang river near Nuabazar, Balangir town.

6.LAND UTILIZATION PATTERN IN THE DISTRICT:

6.1.Forest and non forest land

The forest of Balangir District is full of variety of medicinal plants, Kendu leaves, Bamboo, Sal, Teak, other timber species and a wide range of carnivorous & herbivorous wild animals.

District-wise Forest Cover Area in Odisha (Area in Km^2)

2017 Assessment								
District	**Geographical Area Km^2**	**Very Dense Forest**	**Moder-ate. Dense Forest**	**Open Forest**	**Total**	**Percent of GA**	**Change**	**Scrub**
Angul	6375	371	1380	1004	2755	43.22	43	84
Bolangir	6575	70	224	837	1131	17.2	151	142
Balangir	3806	23	127	234	380	9.98	30	48
Bargarh	5837	176	371	484	1031	17.66	88	47
Bouda	3098	263	546	480	1289	41.61	27	57
Bhadrak	2505	0	9	66	75	2.99	2	0
Cuttack	3932	53	226	517	796	20.24	11	68
Deogarh	2940	191	667	614	1472	50.07	-3	14
Dhenkanal	4452	174	418	825	1417	31.83	9	82
Gajapati	4325	84	1490	946	2520	58.27	12	262
Ganjam	8206	164	1075	864	2103	25.63	15	655
Jagatsinghpur	1668	0	5	131	136	8.15	6	0
Jajpur	2899	6	72	225	303	10.45	3	50
Jharsugada	2114	3	140	179	322	15.23	9	36
Kalahandi	7920	362	729	1327	2418	30.53	36	362
Kandhamal	8021	661	2588	2143	5392	67.22	16	380
Kendrapada	2644	84	88	133	305	11.54	14	2
Keonjhar	8303	289	1404	1519	3212	38.68	4	55
Khorda	2813	21	186	250	457	16.25	0	92
Koraput	8807	94	740	1255	2089	23.72	120	944
Malkangiri	5791	158	709	1475	2342	40.44	20	45
Mayurbhanj	10418	1335	1718	1027	4080	39.16	42	34
Nabarangpur	5291	168	428	507	1103	20.85	8	47
Nayagarh	3890	189	965	556	1710	43.96	28	173
Nuapada	3852	86	482	705	1273	33.05	33	109
Puri	3479	0	54	160	214	6.15	8	11
Rayagada	7073	422	853	1851	3126	44.2	7	349
Sambalpur	6624	499	1675	1106	3280	49.52	13	40
Subarnapur	2337	2	187	161	350	14.98	26	29
Sundargarh	9712	1019	1814	1431	4264	43.9	107	89
Grand Total	**155707**	**6967**	**21730**	**23008**	**51345**	**32.98**	**885**	**4306**

(Source: India state of forest report 2017-Odisha)

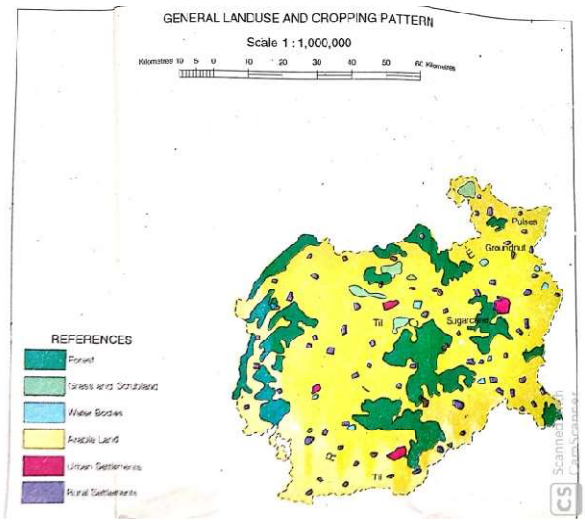
The major portion of the District is covered by forest (9.98 % of TGA) and has scattered settlement pattern. The forest is full of variety of medicinal plants, Kendu leaves, Bamboo, Sal, Teak and other timber species. The District has considerable flat land, which provides suitable site for agricultural use. The hilly areas are mostly under forest with patches of cultivation on scarp areas. Major crops grown in the District are rice and pulses. Only 12.50 percent area of agricultural use are net irrigated and major source of irrigations are well and tube wells.

6.2.Agriculture Land:

The primary objective of Agriculture Department is to increase of production as well as productivity of major crops like Paddy, Groundnut, Mustard, Mung, Biri & vegetables which is widely covered in this District in both Kharif & Rabi season. Another key objective is to make all round development of the farming community of the District. The Deputy Director of Agriculture is the Head of office so far as agriculture is concerned & he is the Principal Agriculture Officer of the District. There are 5 District Agriculture Officers & the Block Level Officers are working under him. As it has already been pointed out, that agriculture is the main livelihood of the people in Balangir District, it is therefore designated as the food bowl of Odisha. Rice is the principal crop grown in this District, followed by other cereals, pulses, oilseeds, vegetables, spices and sugarcane. The agricultural statistics for the District is shown in subsequent tables below :

6.3.Horticulture Land:

The primary objective of Horticulture Department is increase of production as well as productivity of major fruits like Mango, Guava, Citrus etc., which is widely covered in this District. Another key objective is the all round development of the farming community of the District. The Deputy Director of Horticulture is the head of office.



7.SURFACE WATER AND GROUND WATER SCENARIO OF THE DISTRICT

7.1.Hydrogeology

The hydrogeological framework of the district is mainly controlled by the geological set up, rainfall distribution and the degree of secondary and primary porosities in the geological formations for storage and movement of ground water. Since major parts of the district are underlain by hard rocks of diverse lithological composition and structure, the water bearing properties of the formations also vary to a great extent. The area has undergone several phases of intense tectonic deformations which has been responsible for the development of deep seated intersecting fracture system. Hydrogeological surveys in the district reveals the lithological characteristics and the role of tectonic deformation on the occurrence and distribution of ground water reservoirs and their water bearing and water yielding properties. Lineaments formed due to tensile deformation were picked up from remote sensing studies. The structural elements mainly control the occurrence and movement of groundwater in the typical fractured crystalline basement terrain. The major hydrogeologic units in the district can be subdivided into three broad groups.(i)Areas underlain byfractured, fissured and consolidated basement rock formations.(ii)Areas underlain by the semi consolidated (Gondwana) formation.(iii)Areas underlain by recent unconsolidated alluvial formations.Water bearing properties of the Consolidated formations :

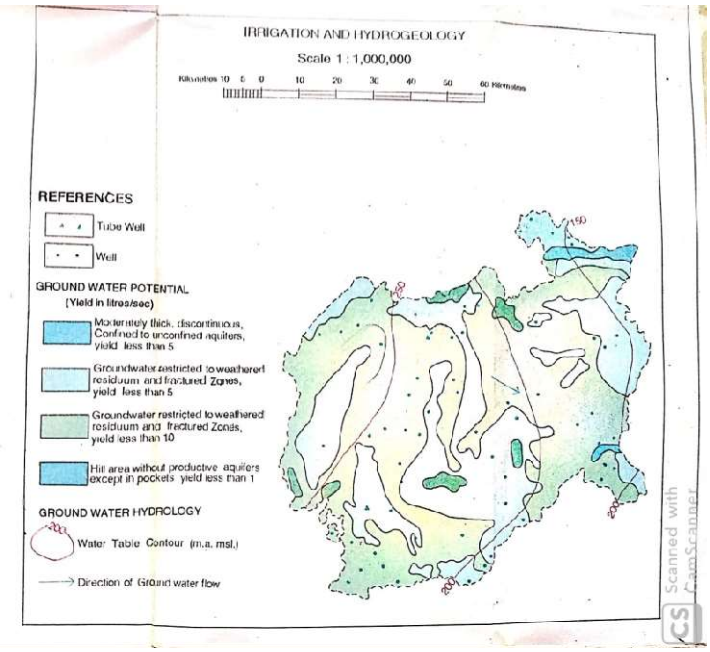
7.2.Depth to Water Level:

The crystalline rocks like Khondalites, granite gneisses, charnockites, quartzites and anorthosites, which are devoid of primary porosity, occupy about 95% of the area of the district. The weathered residuum and jointed & fractured portion of these consolidated rocks constitute principal water bearing horizons. The thickness of the weathered zone is generally more in the topographic lows and undulating plains than in the high land areas. Ground water occurs under phreatic condition in the weathered zone and in semi-confined to confined condition in deeper fractured zones. The water yielding capacity of fractured rocks largely depends on the extent of fracturing openness and size of fracture and nature of their inter connections. Usually two to four water bearing fractures occur down to a depth of 100m below ground level. Potential fracture zone is encountered even at depth of 178 m at Kanut (Block-Belpara).Granites and Granite Gneisses Including Bonai granite :These are the most predominant rock types occurring in the undulating plains and topographic lows. Depending upon the topographic set up, the depth of weathering ranges from 5.5m to 17.50m and occasionally extends up to 35.5m depth. The weathered residuum and fracture zones form principal aquifers.In deeper fracture zones ground water occurs under confined to semi-confined conditions. In general the deep bore wells

in these rocks can sustain yield of 2 to 25 LPS depending upon topographic setting, proximity to the major lineaments, thickness of weathered residuum and number of saturated and interconnected fractures encountered. The granites and granite gneiss can be developed through open wells and borewells. High yielding wells are recorded in the western parts of the district where the discharge ranges from 10 to 25 LPS. Specific capacity of the dug wells tapping the weathered zone ranges from 6 to 286 LPM/M drawdown.Khondalites :These rocks generally form steep linear ridges hence don't form potential aquifers. Well foliated nature of these rocks allows deep weathering. In the pediment areas, the thickness of weathering is varying from 5 to 32m. Ground water occurs under water table condition in the weathered zone and circulates through deeper fractures. The yield of bore wells range from 1 to 5 LPS. The specific capacity of the dug wells ranges from 2.3 to 13.3 LPM/m draw down.Charnockite : These formations are of very much restricted occurrences in the district. Due to paucity of joints and fractures the thickness of weathering in these formations is limited up to 10m. Due to the compact nature and less weathering, ground water prospects in charnockites are not good.Gabbro –anorthosites : The rheologic property of these rocks resembles with charnockite, Barring few locations dismal weathering and lack of fracturing renders these formation as a bad water yielder. The Sp. Capacity of dug wells in anorthosite vary from 16 to 102 LPM/M drawdown.Quartzites :This unit also less fractured and weathered hence do not form good aquifers. However fractured quartzites along lineaments yield good amount of water.Pegmatite and quartz vein : These are course grained intrusives and form good aquifers when fractured.

Semiconsolidated Formation :These are represented by rocks of lower Gondwana formations. These formations have faulted contact with the Precambrians. The friable and loosely connected sandstones form the aquifers. Ground water occurs under water table condition in the weathered zone and under semiconfined to confined condition in deeper fracturedand friable sand stone beds. The yield of tube wells in these formation is meager (<1 LPS). Depth of the open wells in this formation ranges from 5 to 12 m bgl. Yield of the open wells in less then 3 LPS.Unconsolidated Formation : Laterites and alluvium of sub-Recent to Recent age constitute the unconsolidated formations. Laterites occur as capping over the older formations are tapped through dug wells. Recent alluvium occurs as thin discontinuous patches along prominent drainage channels. The thickness of the alluvial deposit varies from 6 to 12m and form potential shallow aquifers. The specific capacity of the dug wells in alluvium vary from 336 to 466 LPM/M draw down.Aquifer Characteristics of Crystalline: In the hard crystalline rock recharge of ground water from precipitation or seepage from surface water bodies percolate into the weathered (saprolite) zone. In case the underlying basement rocks (both weathered and fresh) are incised by open fractures, the downward movement of the water from the upperregolith zone

(comprising the top soil and saprolite horizon) is facilitated. In the saprolite/regolith horizon ground water generally occurs under unconfined condition where as is the fractured bedrock aquifers it occurs under semi-confined to confined conditions. At places confined conditions give rise to the formation of auto flowing wells in the basement rocks as seen at Kantabanji (Block-Tureikela), Dokhra (Block-Belpara), Bhoipara (Block-Muribahal). The ground water potentials of various zones i.e. saprolite (tapped by dug wells), weathered basement rock and shallow fractured basement rock horizon (tapped by the hand pumps) and deeper fractured basement rock (tapped by the deep boreholes by CGWB) vary considerably depending upon their lithological andstructural characteristics. A total of 34 pumping tests were conducted in dug wells tapping the saprolite horizons of various rock formations. The various aquifer parameters were derived following methods given by Slichter (1906) and Hvorslev (1951). Perusal of all result indicates that granite gneiss forms the most potential aquifer both in shallow and deeper horizons followed by Khondalite, Calc Silicate rocks and anorthosites. Anorthosites and Gondwana sediments are poor water yielder in deeper horizonswhere as in the weathered horizon some considerable amount of yield may be obtained from the anorthosites.In unconsolidated alluvium the specific capacity of dug wells vary from 336-to 466-lpm/m drawdown. Although of limited extant the alluvium forms potential shallow aquifers.Depth of water level.



7.3.Ground Water Quality:

Ground water in the phreatic aquifers in Balangir District slightly alkaline in nature, which is also colourless, odourless. The specific electrical conductance of ground water in phreatic zone at 25ºC. The suitability of ground water for drinking purpose has been evaluated on the basis of pH, Total hardness (T.H), Ca, Cl, F and NO3. The chemical concentration of these constituents is presented.

7.4.Ground Water Development:

In the rural areas the entire water supply is dependent on ground water. Ground water development is mainly carried out in the District through dug wells and Hand pumps. In general dug wells are of 2 m diameter and the depth ranges between 8 to 15 m depending on the thickness of the weathered zone, tapping the shallow aquifer in the weathered zone and uppermost slice of the basement. Large number of dug wells used for drinking water is under private ownership for which there is no reliable data. Over the years Mark II/ Mark III hand pumps are being drilled in large numbers for ground water development. These hand pumps have the following two major advantages i) less susceptible to contamination from surface sources and ii) tap fractures between 20-60m depth which have been found to be less affected by seasonal water level fluctuation and thus have lesser chances of failure even during extreme summer. In rural areas of Balangir District the number of hand pumps drilled by PHED is 12311 of which 9342 are under working condition. There are 574 dug wells constructed by government departments that are under regular use. In the urban areas ground water plays a supplementary role in water supply, the major supply being made through dams, reservoirs or weirs across rivers or streams. No authentic data is available on the number of ground water structures catering the urban water supply.

As per the latest ground water resource estimation carried out adopting GEC 97 methodology, the overall stage of ground water development in Balangir District has been found to be 41 % indicating enough scope for future development. The ground water resources of Balangir District is given in the table.

7.5. Ground Water Related Issue and Problems

Some of key ground water related issues are

I. Locating suitable sites for bore wells

II. Suitable design of dug wells and hand pumps

III. Taking up artificial recharge projects to augment the resource availability in Balangir District.

IV. Optimal development of irrigation potential by developing ground water available for future uses.

V. Creating public awareness for conserving ground water through awareness camps, NGO's and mass media.

7.6.Mass Awareness Campaign (MAP) & Water Management Training Programme (WMTP) by CGWB:

Nil

7.7. Area Notified by Cgwb/Sgwa

None

7.8. RECOMMENDATIONS

As the District suffers from water scarcity, it is recommended to take artificial recharge at suitable locales. On the basis of the hydrogeological criteria such as post monsoon water level below 7 m bgl indicating availability of sufficient space in the unsaturated zone to retain additional water and availability of surplus surface runoff, 250 Sq kms area in Balangir District has been demarcated as suitable for artificial recharge. Through this 41.25 mcm water can be recharged.

In the hard rock areas, pin pointing suitable sites for bore wells is always a challenge. Considering the anisotropy in distribution of fractures at deeper level, suitable sites may be selected using remote sensing techniques in association with geophysical and hydro- geological investigations.

For deriving optimal benefit from aquifers in areas under fissured formation, the dug wells should be designed to penetrate the weathered zone as well as top part (1-2 m) of the underlying bed rock, so as to get the full benefit, from the total thickness of the shallow aquifer. For hand pumps and shallow tube wells the casing provided against the weathered zone should be slotted at the bottom so that the well can extract shallow ground water also. In urban areas use of shallow aquifers should be encouraged.

The surface run off in urban areas and its peripheral parts should be harnessed to augment the ground water resource through appropriate recharge techniques. For urban areas roof top rain water harvesting and artificial recharge is most suitable. Location and design of the structures should be guided by findings from hydrogeological and geophysical surveys. Sites for artificial recharge should be taken up at places where sufficient thickness of weathered zone as well as fracture/fracture zones is available. The depth of the recharge well should be governed by the depth of occurrence of the fractures.

8.RAINFALL OF THE DISTRICT AND CLIMATE CONDITION

8.1. Month wise rainfall:

The south-west monsoon is the principal source of rainfall in the district. Average annual rainfall of the district is 1229.47mm. About 80% of the total rainfall is received during the period from June-September. Droughts are quite common in the district. The rainfall is scanty in the west and west-central parts of the district i.e. in the Patnagarh subdivision, which increases in east and southern directions. Block-wise average annual rainfall varies from 946.0 mm to 1492.10-mm.

Year		2016	2017	2018	Average
Sl. No.	Month	(mm)	(mm)	(mm)	(mm)
1	Jan	18.33	00	00	6.11
2	Feb	49.92	00	00	16.64
3	Mar	6.42	105.29	6.23	39.32
4	Apr	18.33	18.50	162.62	64.48
5	May	224.33	165.98	144.39	178.23
6	Jun	165.05	164.28	268.94	199.42
7	Jul	303.49	317.98	320.48	313.98
8	Aug	334.98	276.51	341.13	317.54
9	Sep	308.00	198.01	346.48	284.16
10	Oct	153.10	251.58	243.31	215.99
11	Nov	46.43	47.20	00	31.21
12	Dec	00	5.08	4.97	3.35
Total		**1628.38**	**1550.41**	**1838.55**	**1672.44**

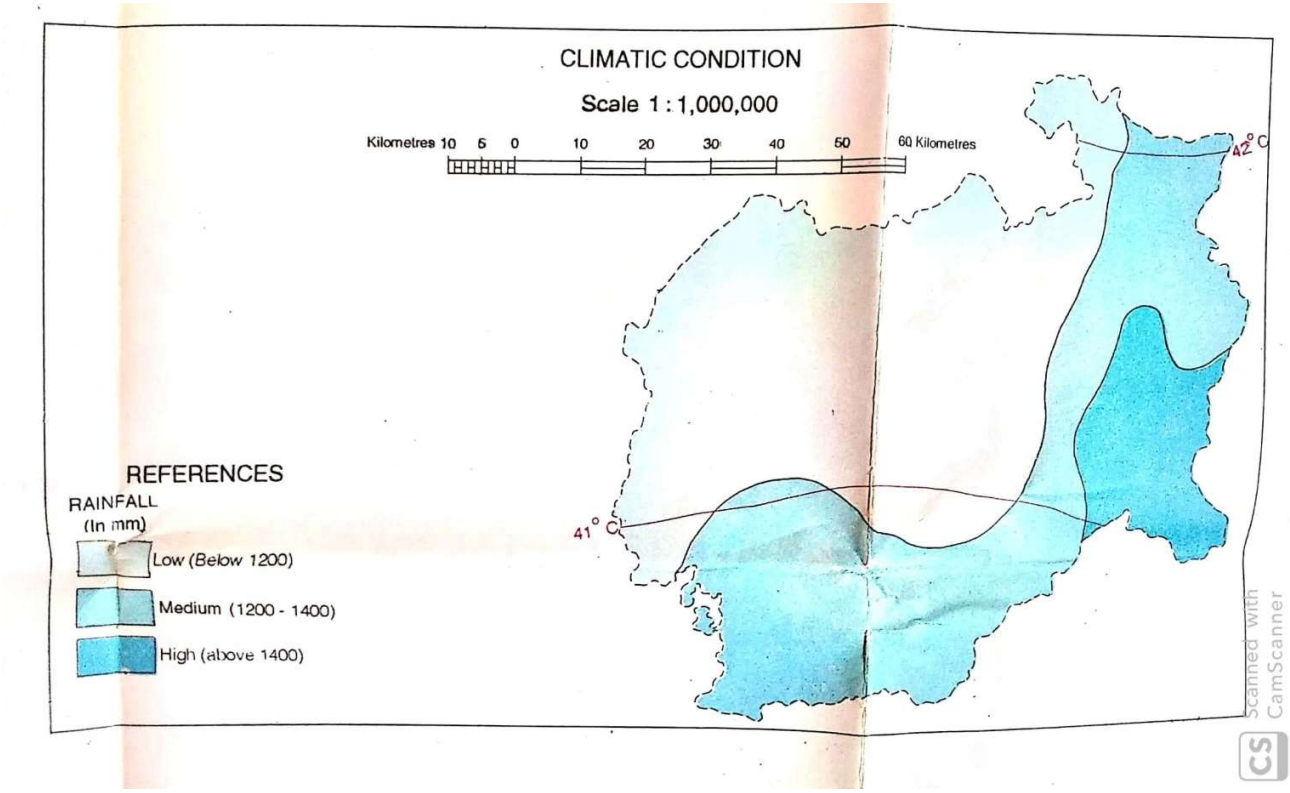
The Indian Meteorological Department, Bhubaneswar, vide letter No. BBS/RMC/CS-312, dated 18th January, 2016 has provided the period of Rainy Season viz. Normal dates of Onset and Withdrawal of South West Monsoon over India as state-wise. The duration for the period is 10th June to 15th October.

8.2.Climate:

The climate of the district is tropical with hot and dry summer and pleasant winter. The summer season extends from March to middle of June followed by the rainy season from June to September. The winter season extends from November till the end of February. Humidity is high during middle of June and it's less in post-monsoon period. The relative humidity in the district varies from26% to 84% through out the year. The mean monthly potential evapotranspiration value ranges from 45mm in December to 470 mm in May. Wind is generally light to moderate. During summer and Southwest monsoon months wind velocity increases. The mean annual wind speed is 3.3 Km/hr.

Temperature Graph- Balangir:

May is the warmest month of the year. The temperature in May averages 32.3 °C. January has the lowest average temperature of the year. It is 16.5 °C.



9.0 DETAILS OF MINING LEASE OF ROAD METAL IN THE DISTRICT:

9.1
9.2 } **Attached as Annexure – I**

10. DETAIL OF ROYALTY OR REVENUE RECEIVED IN LAST THREE YEARS:

Sl. No.	Name of the Tahasil	2016-17	2017-18	2018-19	Total Amount (Lakh)
1	Agalpur	Nil	Nil	Nil	**Nil**
2	Balangir	1937359	4468383.89	5591118	**1,19,96,810.89**
3	Bangamunda	2664246	2491229	2170994	**73,26,469**
4	Belpara	1451774	1831415	2828697	**61,11,886**
5	Deogaon	743450	1063295	1093640	**29,00,385**
6	Kantabanji	1246155	1487508	1879550	**46,13,213**
7	Khaprakhol	504221	432048	462713	**13,98,982**
8	Loisinga	4667678	5347552	5823795	**1,58,39,025**
9	Moribahal	1397693	1397693	1397693	**41,93,079**
10	Patnagarh	1137954	1489339	673239	**33,00,532**
11	Puintala	89926	415033	429252	**9,34,211**
12	Saintala	546346	1097052	733537	**23,76,935**
13	Titilagarh	2986856	3823659	3020743	**98,31,258**
14	Tusura	115737.20	115737.20	115737.20	**3,47,211.6**
Grand Total		**1,94,89,395.2**	**2,54,59,944.09**	**2,62,20,708.2**	**7,11,70,047.49**

11. DETAIL OF PRODUCTION OF MINOR MINERALS IN LAST THREE YEARS:

Sl. No.	Name of the Tahasil	2016-17	2017-18	2018-19	Total Quantity (Cubic meter)
1	Agalpur	Nil	Nil	Nil	Nil
2	Balangir	28374	29519	32814	90707
3	Bangamunda	18651	18398	18686	55735
4	Belpara	13415	16694	16492	46601
5	Deogaon	9708	9792	9864	29364
6	Kantabanji	14877	25022	25120	65019
7	Khaprakhol	2511	2537	8793	13841
8	Loisinga	38056	30955	29897	98908
9	Moribahal	3260	3380	3440	10080
10	Patnagarh	11036	11240	11361	33637
11	Puintala	12285	12346	12414	37045
12	Saintala	5758	6101	6161	18020
13	Titilagarh	14646	23685	26570	64901
14	Tusura	1044	1100	1159	3303
Grand Total		**173621**	**190769**	**202771**	**567161**

12. LIST OF LETTER OF INTENT (LOI) HOLDERS IN THE DISTRICT ALONG WITH ITS VALIDITY:

Sl. No.	Name of the Mineral	Name of the Lessee	Address	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**
Attached as Annexure-I								

13.TOTAL MINERAL RESERVE AVAILABLE IN THE DISTRICT:

Total mineral reserve of road metal/Building stone is 3,61,47,374.16 cum which may increase after detail investigation as per details below.

(i) Blocks were identified based on geological studies through field observation.

(ii) Mineable resource was calculated by considering detail prospecting.

(iii) Area calculated as per GPS co-ordinates and information obtained from local people. Land detail need to be verified from revenue record.

(iv) Since this is an interim report, as per the present requirement of minerals, more such blocks need to be identified and the data should be updated periodically, after certain intervals to update the data bank of DSR.

Summary of Identified Mineral Potential:

Sl. No.	Name of the mineral	Name of the lessee	Address and contact No. of the lessee	Letter of Intent Grant Order No. and 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
Attached as Annexure-I								

14.QUALITY/GRADE OF MINERAL AVAILABLE IN THE DISTRICT

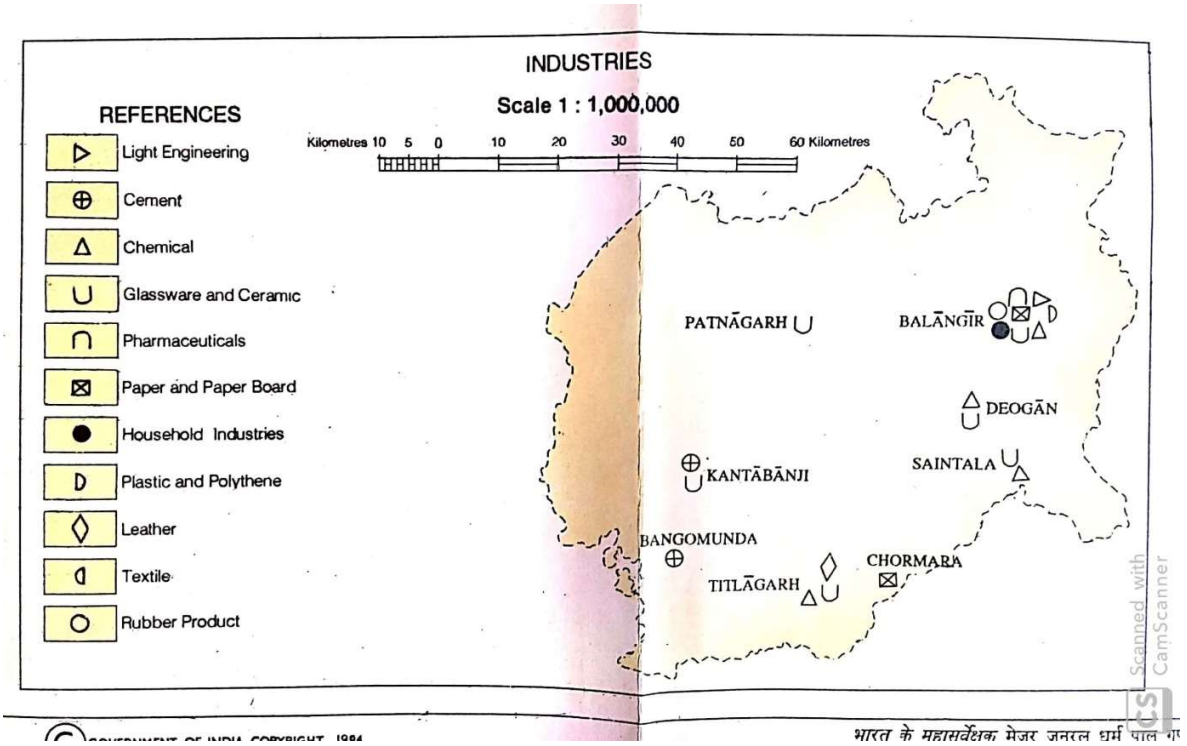
Rocks and Minerals found in Balangir District.

Road metal/Building stone of the District are very much suitable for various construction purposes after crushing and screening. The granite gneisses are well foliated, jointed and weathered easily. Generally the depth of weathering extends down to a depth of 30 meters. This weathered zone forms the main repository of ground water in hard rock areas and is tapped by dug wells. The yield of dug wells range from 6 to 10 m^3/ day. As the area has undergone several phases of tectonic deformations deep-seated fractures are developed which form a conduit for downward percolation of ground water and form aquifers in deeper conditions. These deeper fractures are generally encountered in bore wells. Deeper fractures are tapped by bore wells in hilly blocks.

15. USE OF MINERAL:

Uses of granitic rocks:

- **Building Stone**:- Granitic rocks have been extensively used as a dimension stone and as flooring tiles in public and commercial buildings and monuments.
- **Sub base and base material in road and highway construction:**- Crushed stone is the most basic use of granite. Crushed granite is used as a sub base and base material in road and highway construction. It is used as crushed stone media in sewage system drain fields and as a base material for foundations and construction slabs. Crushed granite in attractive colors is used as a landscape stone and in planters. It also makes great railroad ballast, and in larger sizes it makes good riprap.
- **Granite Paving Stone**:- Granite paving stones or "pavers" can make a colorful and interesting way of paving a driveway or patio. The beauty of natural stone combined with expert craftsmanship and design can produce a unique and lasting result. In the past granite blocks were often used to pave city streets.
- **Engineering:-** Engineers have traditionally used polished granite surface plates to establish a plane of reference, since they are relatively impervious and inflexible. Sandblasted concrete with a heavy aggregate content has an appearance similar to rough granite, and is often used as a substitute when use of real granite is impractical. Granite block is usually processed into slabs, which can be cut and shaped by a cutting center. Granite tables are used extensively as bases for optical instruments because of granite's rigidity, high dimensional stability, and excellent vibration characteristics.



16. DEMAND AND SUPPLY OF THE MINERAL IN THE LAST THREE YEARS:

As such there are huge infrastructural activities such as road, building, railways are coming up by Govt. of India & PSUs under "Make In India" programme.

The Granitic rocks are the main raw minerals for the above activities and considering the last three years' actual production of Balangir with respect to the requirement of the state has a huge gap.

It is proposed to start the stone production from larger block/area to at least double the production of the District which will enhance the revenue of the District and also support the livelihood of the local people.

17. MAP OF EXISTING MINING LEASES IN THE DISTRICT:

Enclosed as Plate-I

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

Currently there are 4 such clusters of mining leases in Uchhabpali, Titlagarh, Bangomunda area of the District.

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

There is no eco- sensitive area within the district.

20. IMPACTS OF MINING ON ENVIRONMENT:

The most important environmental impact of mining projects are:-

Transportation sources:

Transportation sources of air pollutants include heavy vehicles used in excavation operations, cars that transport personnel at the mining site, and trucks that transport mining materials. The level of polluting emissions from these sources depends on the fuel and conditions of the equipment. Even though individual emissions can be relatively small, collectively these emissions can be of real concern. In addition, mobile sources are a major source of particulate matter, carbon monoxide, and volatile organic compounds that contribute significantly to the formation of ground-level ozone.

Fugitive emissions:

Common sources of fugitive emissions include: storage and handling of materials; mine processing; fugitive dust, blasting, construction activities, and roadways associated with mining activities; leach pads, and tailing piles and ponds; and waste rock piles. Sources and characteristics of fugitive emissions dust in mining operations very in each case, as do their impacts. Impacts are difficult to predict and calculate but should be considered since they could be a significant source of hazardous air pollutants.

Noise and vibration:

Noise pollution associated with mining may include noise from vehicle engines, loading and unloading of rock into steel dumpers, chutes, power generation, and other sources. Cumulative impacts of shoveling, ripping, drilling, blasting, transport, crushing, grinding, and stock-piling can significantly affect wildlife and nearby residents.

Vibrations are associated with many types of equipment used in mining operations, but blasting is considered the major source. Vibration has affected the stability of infrastructures, buildings, and homes of people living near large-scale open-pit mining operations. According to a study commissioned by the European Union in 2000:"Shocks and vibrations as a result of blasting in connection with mining can lead to noise, dust and collapse of structures in surrounding inhabited areas. The animal life, on which the local population may depend, might also be disturbed."

21. REMEDIAL MEASURES TO MITIGATE THE IMPACT OF MINING ON THE ENVIRONMENT:

1. Following are the remedial measures to mitigate the in Water sprinkling on haul road, loading and unloading points.
2. Plantation along the safety zone and dump area.
3. Providing dust masks to workers.
4. Regular monitoring of ambient air quality.
5. Provision of air conditioned cabin of Excavators and Dumpers.
6. Regular and proper maintenance of working equipments.
7. Periodic medical examination of the workers and organize medical camp in the area.
8. Use Milli Second Delay Detonator in blasting operation.
9. Provisions of ear plug to the workers.

23.RECLAMATION OF MINED OUT AREA:

Necessity of Reclamation & Rehabilitation:

- Exponential growth in mineral production since 1980.
- Mining activities causes physical, chemical, biological and socio-economic changes in the area.
- Surface mining activities disturb the original land profile.
- In India, mineral production comes mostly from opencast mines & hence Land degradation problems is of serious concern.
- An intricate, in-depth and site-specified techniques involving integrated approach is necessary.

Reclamation has three vital roles:

i. **Reclamation –** Reclamation means return the mined-out land with useful life. It implies restoring the land to a form and productivity that is useful and inconformity with a prior land use. Reclamation always may not be a single- phase operation.

ii.Rehabilitation – Rehabilitation is to bring bach the degraded land to a normal stage by a special treatment. It is a process of taking some mitigation measures for disturbed environmental condition created through mining activities.

iii.Restoration – Restoration is the process of returning the mined out land being fit to an acceptable environmental condition. However, the general acceptable meaning of the term is bringing the disturbed land to its original form. Restoration is often used to indicate that biological properties of soil are put back to what they were. This is a rate phenomenon.

iv.When active mining ceases, mine facilities and the site are reclaimed and closed. The goal of mine site reclamation and closure should always be to return the site to a condition that most resembles the pre-mining condition. Mines that are notorious for their immense impact on the environment often made impacts only during the closure phase, when active mining operations ceased. These impacts can persist for decades and even centuries.

Mine reclamation and closure plans must describe in sufficient detail how the mining company will restore the site to a condition that most resembles pre-mining environmental quality; how it will prevent – in perpetuity – the release of toxic contaminants from various mine facilities (such as abandoned open pits and tailings impoundments); and how funds will be set aside to insure that the costs of reclamation and closure will be paid for.

Proposed future land use after reclamation:

a. Forestry, b. Recreation, c. Water Reservoir, d. Crop Land, e. residential/Commercial, f. Fish & wildlife Habitat, g. Undeveloped Land, h. Grazing/Pasture Land

Statutory requirement:

As per the Mineral Conservation Development Rule, 2017, the following rules must be bare in mind by the mine owner/agent/manager, which is a part of reclamation activities –
Rule 22, Mine Closure Plan

Rule 23, Submission of Progressive Mine Closure Plan Rule 24, Submission of Final Mine Closure Plan
Rule 26, Responsibility of holder of mining lease Rule 27, Financial Assurance Rule 35, Sustainable Mining.

23.RISK ASSESSMENT AND DISASTER MANAGEMENT PLAN:

Mining activity because of the very nature of the operation, complexity of the systems, procedures and methods always involves some amount of hazards. Hazard identification and risk analysis is carried for identification of undesirable events that can leads to a hazard, the analysis of hazard mechanism by which this undesirable event could occur and usually the estimation of extent, magnitude and likelihood of harmful effects. The activities which can cause high risk related to face stability and the person blasting the shots. It was observed that on a working face of the mine, there were large cracks and unsupported rocks were present, which can lead to a serious hazard and injure workers engaged in loading operation and machineries because of rock falls or slides. This type of condition turn out because improper dressing of the bench and improper supervision. To avoid the hazards due to fall of rocks the face must be examined, made suitable for working and the remedial measures must be taken to make it safe if there is any doubt that a collapse could take place. Working of the face should be in the direction taking into account the geology of the area such that face and quarry side remain stable. Another major risk identified in mines is due to the firing of explosive by an unqualified person. In the mines there is problem of fly rocks and the village is located close to the mine and so it is rated high as it can affect may people. Explosives by nature have the potential for the most serious and catastrophic accident. Planning of round of shots, holes correctly drilled, direction logged, weight of explosive suitable for good fragmentation are the few of the steps necessary to ensure its safe use and if the shots are not properly designed can result in misfires, early ignition and

flying rocks. No person is allowed to use explosives without being properly trained in its handling. In the mine a large numbers of heavy vehicles were in operation and the roads were not proper for haulage purpose. The haulage roads were not even and were not wide enough for the crossing purpose and hence the chances of hazards are very high. The main hazards arising from the use large earth moving vehicles are incompetent drivers, brake failure, lack of all-around visibility from the driver position, vehicle movements particularly reversing, roll over, and maintenance. Those most at risk are the driver and pedestrians likely to be struck by the vehicle, and drivers of smaller vehicles, which cannot be seen from the cabs of large vehicles. Edge protection is always necessary to prevent inadvertent movement over the edge of roadway or a bench. Seatbelt will protect driver in case of roll. Good maintenance and regular testing are necessary to reduce the possibility of brake failure. Access to the vehicles should always be restricted to those people necessary for the work in hand. The use of personal protective equipment and proper arrangements is essential to check if the person is wearing protective equipment or not. The personal protective equipment includes helmet, non-skid safety boots, safety glasses, earmuffs etc. The required personal protective equipment should be provided and used in a manner that protects the individual from injury. Few minor injuries which can be prevented are slip, trip, or fall hazards; hazards due to rock falls and collapse of unstable rocks, atmosphere containing toxic or combustible gases; protects from chemical or hazardous material etc. A disaster management plan should be prepared for taking care of for any disaster. Other risk which are included in this category are noise, as it occurs and it can lead to permanent disability. There are problems related to road traffic in and out issuers; inappropriate exposure of moving machines; mechanical failure and because of large number of moving trucks and dumpers there is large quantity of dust present in roadways which affects the operators and can lead to accidents causing injury. They are in acceptable range because of precautions measures taken but no step is taken it can cause hazard hence steps should be taken to reduce the hazards such as for dust suppression system should be installed. Other problems like occurrence of lots of mosquitoes in the area due to unhygienic conditions which affect the human health causing malaria, dengue etc. and causing a person to be hospitalized.

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

to the emergency should be quick and smooth. The responsible person should be familiar with his responsibility during the mock drills. One or two standby should be there to replace the person in Emergency situation. Rescue operations should not include the survivors for any assistance.

First Information of Disaster / Emergency should go to the attendance clerk on duty. Duties of attendance Clerk (Emergency Siren) the attendance clerk or other designated person should on getting information of major accident, sound a hooter or a siren immediately declaring a state of emergency at the mine and then to contact the manager and on his advice to call key personnel using the information listed in the Emergency Organization Chart. It is important that all telephone calls are recorded in a telephone log book. Duties of Other Officials should be displayed and handed over to all concerned. Copy the same should be kept at Manager's Office for ready reference. Establishment of Control Room at Unit Level, Area Level and Company Level is essential. Control Room should keep the contact information about –

· Company Manager

· Company owner/ Administrative officer.

· District Administration

· Govt. Hospitals in Nearby Localities,

· Private Nursing Homes of Localities

Attendance roaster and duty charge register should be properly maintained so the record of missing people can be obtained.

24. DETAILS OF THE OCCUPATIONAL HELTH ISSUE IN THE DISTRICT:

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

Following diseases have been notified as the diseases connected with mining operations for the purpose of sub-section (1) of Section 25 of the Mines Act, 1952: S.R.O. 1306 dated the 21st July, 1952

1. Silicosis
2. Tuberculosis

Total Number of TB cases in Balangir District of last 5 years.

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

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

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

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

System of Detection of Occupational Diseases in Mines In order to detect occupational diseases the industry is required to conduct medical examinations and health surveillance of workers as per the provisions of Mines Act. The present efforts of mines management are concentrated on detection of silicosis, Pneumoconiosis and other notified diseases. Very little attention is paid to other occupational diseases. The essential features of health surveillance programme required to be carried out in mines are:

(a) Initial Medical Examination of persons to be employed in mines.

(b)Periodic Medical Examination once every five years. General physical examination, chest radiographs, lung function tests and audiometry.

(c)Classification of chest radiographs of workers as per ILO Classification.

(d)Medical examination within one year of superannuation. Evaluation of all cases of suspected pneumoconiosis by Pneumoconiosis Medical Board.

(e) Maintenance of medical records till the person is in service and 10 years thereafter. The cases of silicosis detected during health surveillance programme are referred to Pneumoconiosis Medical Board of the mining companies for evaluation and certification. If certified, the case is notified to the enforcement authority and evaluated for disability and payment of compensation. Many cases of silicosis and other pneumoconiosis go undetected and a large number of cases of silicosis are misdiagnosed due to lack of training of medical professionals.

25. PLANTATION GREEN BELT DEVELOPMENT IN RESPECT OF LEASE ALREADY GRANTED IN THE DISTRICT:

During mining operation green belt development through plantation is most important for environment safe guard, which should be supervision by mining department. Different type of species should be planted near lease periphery to keep environment clean at post mining period through reclamation. Where specific usefulness of land could be decided, afforestation is normally planned through the site could have been considered for better possibilities of land use.

26. CONCLUSION:

Since it is an interim report, to meet the requirement of minerals in the present scenario, it is proposed to identify such potential areas at certain interval and get the data bank of DSR to be updated. The mining activity in any area is on one hand bring revenue and employment (Direct and indirect) and on other hand if not done properly potential pollution and ecological imbalance increases, the ability of the ecosystem can also be reduced. Particulate matter transported by the wind as a result of excavations, blasting, transportation of materials, heavy equipments used raise these particulate levels; and Gas emissions from the combustion of fuels in stationary and mobile sources, explosions, and mineral processing. All these activities indirectly affected the biodiversity of area. Larger potential and smaller areas have been identified in Balangir District on the basis of geological study carried out during field observation, which can be considered for mining concession after all the parameters for statutory clearances are verified by consulting with concerned authorities.

The District Survey Report for Road Metal (Minor Mineral) in respect of Balangir District in accordance with Appendix-X, Para-7 (iii) (a) of S.O. 3611(E) dt. 25.07.2018 of Ministry of Environment, Forest and Climate Change, New Delhi is hereby approved for final publication in the District Website.

ROAD METAL/ BLACKSTONE/WHITESTONE/LATERITE/ MORRUM/EARTH FOR ROAD CONSTRUCTIO/EARTH FOR BRICK MAKING SAIRATS ALREADY LEASED OUT AND EXECUTED
(TO BE FILLED BY TAHASILDARS FOR RESPECTIVE TAHASILS [SEPARATE SHEET FOR DIFF MINERAL])

Sl. No.	Name of Tahasil	Name of Minor Mineral	Name of village/Date of registration of lease	Name of lessee	Address & contact No of lessee	Mining lease grant order No & date	Period of QL		Date of commencement of minig operation	Status (working/ non-working/Temp working for depatch)	Captive or Non-captive	Lt No & date of grant of EC	Location of Resource (GPS co-ordinates or Khata & Plot No) (Sketch map to be attached)	Length of area leased for mineral concession (in km)	Average width of area leased for mineral concession (in km)	Area leased for mineral concession (in sq m)	Mineable mineral potential as per approved mining plan (in cum)	Production proposed in the mining plan (cum)				Y (R) Forms issued by the Tahasildar				Royalty (in Rs lakh) collected as Royalty				Any other remarks
							From	To										1st Year	2nd Year	3rd Year	4th Year	16-17	17-18	18-19	19-20	16-17	17-18	18-19	19-20	
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	a	b	c	d	e
1	AGALPUR	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
2	BANGOMUNDA	Sindhbhali Road Metal 2.46 Hects	Sindhbhali, Bangomunda	Kisanlal Jain	At-Khariar, Dist-Nuapada	245 Dt-11/03/2015	2015-16	2019-20	19/01/2016	Working	Captive	283 Dt. 23/06/2016 DEIAA	N20° 17' 16.7" to N20° 17' 19.2" E82° 50' 35.1" to E82° 50' 29.2" Khata No-86 Plot No-561	0.28	0.18	24600 sqm	117173 Cum	14000 Cum	14000 Cum	14000 Cum	14000 Cum	NA	NA	NA	NA	299056.000	299056.000	299056.000	299056.000	NA
3	BANGOMUNDA	Deheli Stone Quar	Dehelì Stone	Jaswant Singh	At/Po-Kantabanji, Dist-Balangir, Mob:	301 Dt. 24/03/201	2015-	2019-	NA	Working	Captive	301 Dt. 24/03/201	N20° 13' 43.5" to N20° 13' 47.6" E82° 57' 39.5"	0.092	0.072	24280 sqm	189620 Cum	1952C	1920C	1952C	2048C	NA	NA	NA	NA	464412	464413	464413	NA	NA

		ry 2.428 Hects		Saluja	9937526557	5	16	20				6DEIAA	to E82° 57' 48.5" Khata No-107 Plot No-709(A)					um	um	um	um					.00	.00	.00				
4	BANGOMUNDA	Bhirkapada Stone Quarry –II 0.19 Hects	Birkapada, Bangomunda	Lambodhar Kumshar	At/Po-Chulipunka, Bangomunda, Mob: 6370488523	248 Dt. 11/03/2015	2015-16	2019-20	28/10/2016	Working	Captive	253 Dt. 23/06/2016 DEIAA	N20° 35' 14.66" to N20° 35' 2" E83° 59' 55.35" to E83° 00' 7.88" Khata No-83 Plot No-127	0.08	0.024	1900 sqm	17857 Cum	416 Cum	374 Cum	396 Cum	319 Cum	NA	NA	NA	NA	4000000.00	NA	NA	NA	NA	NA	NA	NA	NA
5	BANGOMUNDA	Birkapada Stone Quarry –III 0.271 Hects	Birkapada, Bangomunda	Tuku Kumbhar	At/Po-Chulipunka, Bangomunda, Balangir Mob: 6370488532	244 Dt. 11/03/2015	2015-16	2019-20	11/07/2017	Working	Captive	249 Dt. 23/06/2016	N20° 17' 36.00" to N20° 17' 41.3" E82° 53' 58.5" to E82° 54' 5.6" Khata No-83 Plot No-621, 615, 629	0.097	0.028	2710 sqm	2024.45 Cum	396 Cum	75 Cum	100 Cum	104 Cum	NA	NA	NA	NA	1330180.00	NA	NA	NA	NA	NA	NA	NA	NA
6	BANGOMUNDA	Sangamada Road Metal Quary-I 2.023 Hects	Sangamada, Bangomunda	Bijaya Ku. Jha	At-Dharmagorh, Kalahandi, Mob: 9937300611	218 Dt. 04/03/2015	2015-16	2019-20	04/03/2016	Working	Captive	3661 Dt. 23/07/2016 SEIAA	N20° 22' 59.0" to N20° 23' 01.0" E82° 49' 00.5" to E82° 49' 01.1" Khata No-96 Plot No-03	0.22	0.086	20230 sqm	118607.5 Cum	1450 Cum	1450 Cum	1450 Cum	1650 Cum	NA	NA	NA	NA	3086122.00	3086122.00	3086122.00	3086122.00	NA			
7	BANGOMUN	Sangamada	Sangamada,	Bhumanyu	At-Sangamada,	1259 Dt.	201	201	25/08/2015	Working	Capt	283 Dt. 23/	N20° 22' 59.0" to N20° 23'	0.267	0.091	20230 sqm	116505 Cum	127	126	119	105	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

	DA	Stone Quarry –III 2.023 Hects	Bangomunda	Meher	Po/Ps-Bhalimunda, Bolangir, Mob: 9937300611	25/08/2015	5-16	9-20			ive	06/2016 DEIAA	01.0" E82° 49' 00.5" to E82° 49' 01.1" Khata No-96 Plot No-03(C)					8 Cum	0 Cum	0 Cum	0 Cum										
8	BANGOMUNDA	Sahajot Stone Quarry 1.537 Hects	Sahajot, Bangomunda	Bhumanyu Meher	At/Po-Sahajot, Ps-Bangomunda, Bolangir	250 Dt. 21/02/2015	2015-16	2019-20	NA	Working	Captive	3951 Dt. 14/08/2015 SEIAA	N20° 18' 41.7" to N20° 18' 53.7" E82° 54' 07.6" to E82° 54' 09.7" Khata No-61 Plot No-447(A)	0.28	0.06	15370 sqm	76986 Cum	15255 Cum	17644 Cum	18561 Cum	19500 Cum	NA	NA	NA	NA	2739455.00	2739455.00	2739455.00	NA	NA
9	BANGOMUNDA	Sindhbhadi Stone Quarry-II 2.444 Hects	Sindhbhadi, Bangomunda	Binod Ku. Arya	At/Po-Kantabanji, Bolangir	241 Dt. 11/03/2015	2015-16	2019-20	31/12/2015	Working	Captive	283 Dt. 23/06/2016 DEIAA	N20° 17' 21.2" to N20° 17' 25.0" E82° 50' 37.5" to E82° 50' 37.7" Khata No-86 Plot No-85	0.2	0.16	24440 sqm	199629 Cum	12196 Cum	12652 Cum	12422 Cum	12888 Cum	NA	NA	NA	NA	2787735.00	2787735.00	2787735.00	2787735.00	NA
10	BANGOMUNDA	Salemudga Stone Quarry-II 1.618 Hects	Salemudga, Bangomunda	Nalinkumar Meher	At-Bhalumunda, Bangomunda, Bolangir	247 Dt. 11/03/2015	2015-16	2019-20	12/01/2016	Working	Captive	3912Dt. 14/14/08/2015 SEIAA	N20° 14' 32.2" to N20° 14' 35.7" E82° 56' 43.8" to E82° 56' 42.9" Khata No-40 Plot No-398	0.18	0.098	16180 sqm	49851.25 Cum	20400 Cum	19200 Cum	20400 Cum	18400 Cum	NA	NA	NA	NA	2311121.00	2311121.00	2311121.00	2311121.00	NA
11	BANGOMUNDA	Barlabahali Ston	Barlabahali, Bang	Binod ku. Ara	At/Po/Ps-Kantabaji,	240 Dt. 11/03/	2015	2019	-------- --------	Non-Working	------	NA	N20° 17' 53.2" to N20° 17' 55.2" E82°	0.132	0.11	12140 sqm	115496.25 Cum	13500	13995	14885	14885	NA	NA	NA	NA	NA	NA	NA	NA	NA

		e Quarry 1.214 Hects	omunda	ya, Mob: 9658325250	Bolangir	2015	-16	-20					48' 57.7" to E82° 48' 58.1" Khata No-54 Plot No-1/431					Cum	Cum	Cum	Cum									
12	BANGOMUNDA	Salemudga Stone Quarry-I 1.618 Hects	Salemudga, Bangomunda	Jubaraj Bag	At/Po-Alanda, Ps-Sindukela, Bolangir	243 Dt. 11/03/2015	2015-16	2019-20	23/02/2016	Working	Captive	NA	N20° 14' 32.9" to N20° 14' 32.7" E82° 56' 37.5" to E82° 56' 40.4" Khata No-40 Plot No-398(A)	0.176	0.11	16180 sqm	52475 Cum	15000Cum	14500Cum	14500Cum	15500Cum	NA	NA	NA	NA	320023 5.00	320023 5.00	NIL	NIL	NA
14	BANGOMUNDA	Bhirkapada Stone Quarry -10.16 Hects	Bhirkapada, Bangomunda	Turku Kumar	At-Chatuanka, Bangomunda, Bolangir, Mob: 9668206001	NA	2015-16	2019-20	24/02/2015	Working	Captive	283 Dt. 23/06/2016 DEIAA	N20° 31' 8.6" to N20° 31' 16.1" E83° 00' 36.1" to E83° 00' 29.6" Khata No-83 Plot No-129	0.075	0.022	1600 sqm	5760 Cum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
15	BANGOMUNDA	Sangamada Stone Quarry –II 2.02 Hects	Sangamada, Bangomunda	Shyamsundar Meher	At-Bhalumunda, Bolangir, Mob: 9937928464	242 Dt. 11/03/2015	2015-16	2019-20	26/11/2015	Working	Captive	283 Dt. 23/06/2016 DEIAA	N20° 22' 54.7" to N20° 22' 59.1" E82° 49' 00.59" to E82° 49' 09.6" Khata No-96 Plot No-03	0.28	0.08	20200 sqm	121200 Cum	41225CUM	41225CUM	41225CUM	41225CUM	NA	NA	NA	NA	733112.00	733112.00	733112.00	733112.00	NA

16	BELPADA	Black Stone Dakara Stone Quarry 1.08 Hects	Dakara	Jaswant Tank	At-Buromal, PS. Kantabanji,Dist-Balangir	269 dt.12/02/2015	2015-16	2019-20	19/10/2015	Working	Captive	4293 Dtd. 17/08/2015 SEIAA	N20° 31' 08.1" to N20° 31' 16.1" E83° 00' 36.1" to E83° 00' 29.6" Khata No-126/174 Plot No-183	0.28	0.064	10800 sqm	50768 Cum	12000 Cum	12000 Cum	12000 Cum	12000 Cum	6 Books	10 Books	10 Books	10 Books	12032121	17962222	21550202	19161619	NA
17	BELPADA	Black Stone Mandal(I) Stone Quarry 4.500 Hects	Mandal	Sankar Prasad jain	At/Po-Belpara, DistBalangir	261 Dtd. 12/02/2015	2015-16	2019-20	19/10/2015	Working	Captive	3918 Dtd. 14/08/2015 SEIAA	N20° 35' 14.66" to N20° 35' 02.00" E82° 59' 55.35" to E83° 00' 07.88" Khata No-229 Plot No- 34	0.600	0.120	45000 sqm	93150 Cum	25000 Cum	25000 Cum	25000 Cum	25000 Cum	10 Books	20 Books	24 Books	14 Books	36761212	43019090	59487373	50669669	NA
18	BELPADA	Black Stone Mandal (II) Stone Quarry 1.736 Hects	Mandal	Pradyumna Thakur	At/Po.-Mandal, Dist-Balangir	262 Dtd. 12/2/2015	2015-16	2019-2020	28/10/2015	Working	Captive	4299 Dtd. 17/8/2015 SEIAA	N20° 34' 47.5" to N20° 34' 40.8" E83° 00' 44.4" to E83° 00' 52.6" Khata No-229/228 Plot No-219,348	0.180	0.160	17360 sqm	81106.25 Cum	17600 Cum	18044 Cum	15000 Cum	17500 Cum	7 Books	9 Books	12 Books	N.A	18398402	27760250	27853750	28539090	NA

19	BELPADA	Black Stone Tara Stone Quarry 2.51 Hects	Tara	Sankar Prasad Jain	At/Po-Belpara, DistBalangir	272 Dtd. 12/02/2015	2015-16	2019-20	19/10/2015	Working	Captive	4056Dtd. 17/8/2015 SEIAA	N20° 40' 07.49" to N20° 40' 00.79" E83° 59' 31.48" to E83° 59' 17.57" Khata No-119 Plot No- 979/p	0.420	0.160	25100 sqm	59400 Cum	1500Cum	15000Cum	15000Cum	15000Cum	6Books	12Books	12Books	12Books	18533333	21444447	31102853	26185353	NA
20	BELPADA	Black Stone – Admunda Stone Quarry 1.982 Hects.	Admunda	Haribandhu Meher	At/Po-Belpara, DistBalangir	287 Dtd. 20/02/2015	2015-16	2019-20	16/02/2016	Working	Captive	38 Dtd. 11/01/2016 SEIAA	N20° 42' 22.2" to N20° 42' 44.4" E83° 53' 47.6" to E82° 53' 49.3" Khata No-58,Plot No-66	0.480	0.140	19820 sqm	106765 Cum	2200Cum	22555Cum	23105Cum	23655Cum	3Books	18Books	18Books	14Books	11742159	27459070	40767083	37758353	
21	BELPADA	Black Stone – Malijhar Stone Quarry 2.672 Hects	Malijhar	Sankar Prasad Jain	At/Po-Belpara, DistBalangir	259 Dtd. 12/02/2015	2015-16	2019-20	19/10/2015	Working	Captive	4046 Dtd. 17/08/2015 SEIAA	N20° 37' 52.49" to N20° 37' 46.52" E83° 01' 10.66" to E83° 01' 17.00" Khata No-76 Plot No-633	0.400	0.120	26720 sqm	47250Cum	15000Cum	15000Cum	15000Cum	15000Cum	6Books	12Books	12Books	12Books	16891919	25963963	29407070	24167171	NA
22	BELPADA	Black Stone-Dunguripalli Stone Quarry-I	Dunguripali	Jagabandhu Behera	At/Po-Kantabanji,Dist-Balangir	266dtd. 12/02/2015	2015-16	2019-20	31/10/2015	Working	Captive	4285 Dtd.17/08/2015	N20° 30' 14.4" to N20° 30' 16."1" E82° 53' 45.9" to E82° 53' 48.6" Khata No-104/298	0.320	0.280	30230 sqm	164464 Cum	1380Cum	14100Cum	14570Cum	14700Cum	6Books	12Books	12Books	12Books	17101414	19530141	29374040	24034343	N.A

		3.023 Hects											Plot No-318,384 etc																
23	BELPADA	Black Stone-Bahabal Stone Quarry 1.08 Hects	Bahabal	Murarilal Agrawal	At/Po-Kantabanji,Dist-Balangir	287 dtd. 20/02/2015	2015-16	2019-20	N.A	Non Working	N.A	3908 dtd. 14/08/2015 SEIAA	N20° 32' 00.02" to N20° 32' 06.9" E82° 58' 54.6" to E82° 58' 48.9" KhataNo-120/245, Plot No-784	0.280	0.064	10800 sqm	49851.25 Cum	1375 Cum	1375 Cum	1375 Cum	1375 Cum	3 Books	NONWORKING	NONWORKING	NONWORKING	1370	NOT RECEIVED	NOT RECEIVED	NOT RECEIVED	N.A
24	BELPADA	Black Stone-Bhuliabandha Stone Quarry 2.023 Hects	Bhuliabandh	Harish Patel	Gandhinagar Para, Balangir	1863 Dtd. 13/10/2016	2016-17	2020-21	4/12/2017	Working	Captive	432 Dtd. 22/09/2017 DEIAA	N20° 36' 16.9" to N20° 36' 25.8" E83° 04' 22.5" to E83° 04' 30.1" Khata No-53, PLOT No-07	0.400	0.120	20230 sqm	87750 Cum	-	3150 Cum	3150 Cum	3150 Cum	-	-	7 Books	14 Books	-	-	430364	142541	

25	BOLANGIR	Basupali-2 Stone Quarry 2.023 Hects	Basupali, Balangir	Mohitku. Jain	At-Udayanagar, balangir, Mob: 9437033244	131, Dt.-01.03.2017	2017-18	2021-22	12.10.2017	Working	Captive	557 Dt.-01.12.2017	N20° 37' 30.00" to N20° 37' 32.70" E83° 26' 52.70" to E83° 26' 51.80" Khata No-14 Plot No-79/B/1	0.360	0.060	20230	149580	2295	2340	2385	2430	NA	NA	NA	NA	NA	267499.87	701552.00	NA	NA
26	BOLANGIR	Basupali-3 Stone Quarry 1.82 Hects	Basupali, Balangir	Hemanta Ku. Mishra	Balangir Muncipality Ward No-8, Balangir, Mob: 7008057484	1642, Dt.-20.04.2015	2015-16	2019-20	21.04.2017	Working	Captive	264 Dt.-14.01.2016	N20° 37' 30" to N20° 38' 30.00" E83° 26' 00" to E83° 27' 30" Khata No- 14 Plot No-79/A, 101/A	0.310	0.060	18200	78525	3780	3780	3780	3780	NA	NA	NA	NA	NA	453766.00	455571.00	606552.00	NA	NA
27	BOLANGIR	Basupali-4 Stone Quarry 2.023 Hects	Basupali, Balangir	Mohitku. Jain	At-Udayanagar, balangir, Mob: 9437033244	1313, Dt.-01.03.2017	2017-18	2021-22	24.07.2015	Working	Captive	556 Dt.-01.12.2017	NA	0.360	0.060	20230	86400	2300	2300	2400	2450	NA	NA	NA	NA	NA	287908.02	586080.00	NA	NA
28	BOLANGIR	Basupali-5 Stone Quarry 1.82 Hects	Basupali, Balangir	Hemanta Ku. Mishra	Balangir Muncipality Ward No-8, Balangir, Mob: 7008057484	1642, Dt.-20.04.2015	2015-16	2019-20	21.04.2017	Working	Captive	264 Dt.-14.01.2016	N20° 37' 30" to N20° 38' 30.00" E83° 26' 00" to E83° 27' 30" Khata No- 14 Plot No-79/A,	0.310	0.060	18200	78525	3780	3780	3780	3780	NA	NA	NA	NA	NA	453766.00	455571.00	606552.00	NA	NA

													101/A																		
29	BOLANGIR	Bhutiarbahal-A Stone Quarry 1.618 Hects	Bhutiarbahal, Balangir	Sanjaya Ku. Agrawal	Clubpara, Balangir, Mob: 9438002222	1213, Dt.-01.03.2017	2015-16	2019-20	21.04.2017	Working	Captive	523 Dt.-10.11.2017	N20° 35' 52.7" to N20° 35' 57.80" E83° 20' 39.60" to E83° 20' 46.10" Khata No-243 Plot No-1727/A	0.140	0.130	16180	101664	3950	40000	4050	4000	NA	NA	NA	NA	NA	606453.48	5908339.00	NA	NA
30	BOLANGIR	Bhutiarbahal-B Stone Quarry 1.214 Hects	Bhutiarbahal, Balangir	Niraj Ku. Agrawal	Clubpara, Balangir, Mob: 9438002222	1313, Dt.-01.03.2017	2015-16	2019-20	21.04.2017	Working	Captive	427 Dt.-16.09.2017	N20° 35' 55.20" to N20° 36' 0.90" E83° 20' 35.90" to E83° 20' 39.60" Khata No-243 Plot No-1727/B	0.130	0.110	121400	62498	3950	40000	4050	4000	NA	NA	NA	NA	NA	584969.04	5906944.00	NA	NA
31	BOLANGIR	Bhutiarbahal-C Stone Quarry 0.809 Hects	Bhutiarbahal, Balangir	Niraj Ku. Agrawal	Clubpara, Balangir, Mob: 9438002222	1313, Dt.-01.03.2017	2015-16	2019-20	21.04.2017	Working	Captive	426 Dt.-16.09.2017	N20° 35' 55.60" to N20° 35' 57.30" E83° 20' 24.70" to E83° 20' 29.80" Khata No-243 Plot No-1727/C	0.135	0.070	8090	101664	3950	40000	4050	4000	NA	NA	NA	NA	NA	591600.24	5905548.00	NA	NA

32	BOLANGIR	Dhulusar Stone quarry 1.89 Hects	Dhulusar	Khiimjibhai Patel	Gandhinagarpara,Balangirr, Mob-9437240698	5612 Dt.30.11.2015	2015-16	2019-20	13.07.2015	Working	Captive	Letter No-4930 Dt.17.08.2017	N20 ° 37' 30" to N20 ° 38' 30" E82 ° 26' 00" to E82 ° 27' 30" Khata No-125 Plot No-108,110 & 113	0.150	0.130	18900	59400	2205	2205	2205	2205	NA	NA	NA	NA	NA	295921.00	286889.00	354127.52	N.A
33	BOLANGIR	Hardatal Stone Quarry 3.075 Hects	Hardatal	Mangalal Patel	Gandhinagarpara,Balangirr, Mob-9437240698	3976 Dt.22.12.2014	2014-15	2018-19	12.03.2015	Working	Captive	Letter No-3452 Dt.01.06.2015	N20° 44' 20.5" to N20° 44' 14.0" E83° 20' 38.6" to E83° 20' 46.3" Khata No-94 Plot No-9	0.190	0.160	30750	89500	30000	30000	30000	30000	NA	NA	NA	NA	441183.00	420071.00	481988.00	NA	N.A
34	BOLANGIR	Barkhani Stone Quarry 4.85 Hects	Barkani	Pritumal Agrawal	At-Jharmunda, Po-Pardhiapali, Ps-Loisingha, Bolangir, Mob-9938386283	NA	2015-16	2019-20	NA	Working	Captive	NA	N20° 42' 30" to N°20 45' 00.0" E83° 17' 30" to E83° 17' 20" Khata No-30 Plot No-1	0.300	0.030	48500	108000	1350	1350	1350	1350	NA	NA	NA	NA	383731.00	289483.20	289483.00	NA	

35	BOLANGIR	Bhanpur-2 Stone Quarry 0.287 Hects	Bhanpur	Pramod Kumar Panda	At-Bhanpur Po-Sikachhida Bolangir Mob-9438000905	13.03.2015	2015-16	2019-20	24.07.2015	Working	Captive	Letter No-274 Dt.14.01.2016	N20° 38' 18.2" to N20° 38' 07.6" E83° 25' 37.0" to E83° 26' 00.6" Khata No-59 Plot No-275	0.070	0.045	2870	6750	540 Cum	540 Cum	540 Cum	540 Cum					64610.00	64524.00	43330.50	NA	
36	BOLANGIR	Bhanpur-3 Stone Quarry 0.404 Hects	Bhanpur	Umakanta Naik	At-Bhanpur Po-Sikachhida Bolangir	13.03.2015	2015-16	2019-20	24.07.2015	Working	Captive	Letter No-92 Dt.14.01.2016	N20° 37' 30" to N20° 45' 00.0" E83° 17' 30" to E83° 17' 20" Khata No. 59 Plot No.444/P	0.080	0.060	4040	9180	1224	1224	1224	1224					140303.00	143319.00	196341.00	NA	
37	DEOGAON	Sunarijora-A Stone Quarry 0.809 Hects	Sunarijora, Deogaon	Premanand Pradhan	At-Shantipara, Po-Deogaon, Dist-Balangir, Mob: 9439694311	2017 Dt-30/07/2015	2015-16	2019-20	27/03/2017	Working	Non Captive	578 Dt. 23/11/2016 DElAA	N20 41' 23.18", 20 41' 21.81"N E83 17' 28.78", 83 17' 28.28"E Khata No-58 Plot No-279	0.188	0.048	8090 sqm	32180Cum	560 Cum	6200 Cum	6800 Cum	7200 Cum	NA	NA	NA	NA	27000.00	83700.00	918000.00	97200.00	NA

38	DEO GAON	Sunarijora-B Stone Quarry 3.237 Hects	Sunarijora, Deogaon	Md. Mazar Hussain Khan	At-Chatiapali, Po-Sadaipali, Dist-Balangir	505 Dt-27/03/2015	2015-16	2019-20		Working	Non Captive	430 Dt. 22/09/2017 DEIAA	N20 41' 14.5" E83 17' 40.0"E Khata No-58 Plot No-545/B	0.260	0.140	32370 sqm	381515 Cum	15000 Cum	15000 Cum	15000 Cum	15000 Cum	NA	NA	NA	NA	NIL	181875.00	2025000.000	2025000.000	NA
39	DEO GAON	Sirabahal Stone Quarry 7.77 Hects	Sirabahal	Niraj Agrawal	At-Clubpada, Dist-Balangir	507 Dt. 27/03/2015	2015-16	2019-20	19/05/2016	Working	Non Captive	861 Dt. 25/07/2015 SEIAA	N22 33' 32.30", 22 33' 41.80"N E83 26' 20.00", 83 26' 32.80"E Khata No-77 Plot No-748	0.280	0.280	77700 sqm	821510 Cum	70000 Cum	70000 Cum	70000 Cum	70000 Cum	NA	NA	NA	NA	7070000.00	7070000.000	7070000.000	7070000.000	NA
40	DEO GAON	Gudkhapala Stone Quarry 1.27 Hects	Gudkhapala	Rambhagat Agrawal	At/Po-Sargad, Loisingha, Dist-Balangir	509 Dt. 27/03/2015	2015-16	2019-20		Working	Non Captive	575 Dt. 23/11/2016 DEIAA	N20 32' 48.97", 20 32' 57.24"N E83 32' 27.35", 83 32' 39.92"E Khata No-181 Plot No-586, 588, 619, 789	0.140	0.098	12700 sqm	9995 Cum	648 Cum	6720 Cum	6840 Cum	7700 Cum	NA	NA	NA	NA	364500.00	907200.000	923400.000	1039500.000	NA

41	KANTABANJI	Chauanaka Stone Quarry No-1 2.63 Hects	Chauanka	Jagabandhu Behera	At/Po-Salandi, Ps-Belpada	2138 Dt.15.09.2015	2015-16	2019-20	01.10.2016	Working	Non-Captive	4038 Dtd. 17/08/2016	N20° 28' 31.5" to N20° 28' 40.1"N E82° 50' 04.5" to E82° 56' 06.6"E Khata No-153 Plot No-146/P	0.2	0.14	26300	148770 Cum	1395 Cum	1140 Cum	1530 Cum	1575 Cum	NA	NA	NA	NA	324658.00	324658.00	324658.00	NA	NA
42	KANTABANJI	Dhamandanga Stone Quarry 2.023 Hects	Dhamandanga	Purnanda Mohanty	At/Po/Ps-Kantabanji, DistBalangir	N/A	2017-18	2021-22	01.02.2018	Working	Non-Captive	260 Dtd. 05/02/2019	N20° 26' 17.87" to N20 26' 52.54" E82° 54' 34.11" to E82° 54' 42.55" Khata No-145 Plot No-397	0.22	0.096	20230	57840 Cum	1260 Cum	1260 Cum	1350 Cum	1305 Cum	NA	NA	NA	NA	NIL	NIL	NIL	41458.00	NA
43	KANTABANJI	Simanabahal Stone Quarry-2 1.072 Hects	Simanabahal	Kailash Ch. Agrawal	At/Po/Ps-Kantabanji, DistBalangir	2140 Dtd. 15/09/2015	2015-16	2019-2020	01/10/2016	Working	Non-Captive	4036 Dtd. 17/8/2016	N20° 25' 10.06" to N20° 25' 11.02" E82° 58' 53.01" to E82° 58' 35.08" Khata No-49 Plot No-770/P	0.18	0.06	10720	94590 Cum	1562 Cum	1562 Cum	1540 Cum	1562 Cum	NA	NA	NA	NA	209684.00	209684.00	209684.00	NA	NA

44	KANTABANJI	Dhumsu Stone Quarry –I 2.152 Hects	Dhumsur	Jasobant Singh Saluja	At/Po/Ps-Kantabanji, DistBalangir	2002 Dtd. 02/09/2015	2015-16	2019-20	01/10/2016	Working	Non-Captive	3910Dtd. 14/08/2016	N20° 27' 33.3" to N20° 27'37.9" E82° 57'06.5" to E82° 57'08.8" Khata No-43 Plot No-333/P	0.24	0.092	21520	215370 Cum	1640 Cum	1680 Cum	1560 Cum	1560 Cum	NA	NA	NA	NA	3290008.00	3290008.00	3290008.00	NA	NA
45	KANTABANJI	Dhumsu Stone Quarry –II 2.145 Hects	Dhumsur	Parameswar Nag	At/Po-Titilagarh, Balangir	2142 Dtd. 15/09/2015	2015-16	2019-20	01/10/2016	Working	Non-Captive	4044 Dtd. 17.08.2016	N20° 27' 36.0" to E20° 27' 31.1" E82° 57' 06.5" to E82° 57' 10.8" Khata No-43, Plot No-333	0.24	0.09	21450	237640 Cum	1620 Cum	1620 Cum	1620 Cum	1620 Cum	NA	NA	NA	NA	3321800.00	3321800.00	3321800.00	NA	NA
46	KANTABANJI	Dhumsu Stone Quarry –III 2.145 Hects	Dhumsur	Rama Agrawal	At/Po/Ps-Kantabanji, DistBalangir	2991 Dtd. 18/12/2017	2017-18	2021-22	19/12/2017	Working	Non-Captive	555 Dtd. 01/12/2017	N20° 27' 31.38" to N20° 27' 40.08" E82° 57' 08.11" to E82° 57' 11.58" Khata No-43 Plot No-333	0.160	0.136	21450	108644 Cum	2250 Cum	2250 Cum	2250 Cum	2250 Cum	NA	NA	NA	NA	NIL	894780.00	3579120.00	3579120.00	NA
47	KANTABANJI	Shemela Stone Quarry 1.98 Hects	Shemla	Anup Kumar Agrawal	At/Po/Ps-Kantabanji,Dist-Balangir	380 Dtd. 14/12/2018	2018-19	2022-23	N/A	Working	Non-Captive	4470 Dtd.17/-08/2019	N20° 29' 25.43" to N20° 29' 35.30" E82° 49' 36.51" to E82° 49' 41.36" Khata No-91 Plot No- 1320	0.22	0.9	19800	104225 Cum	600 Cum	600 Cum	600 Cum	600 Cum	NA	NA	NA	NA	NIL	NIL	NIL	NIL	N.A

48	KANTABANJI	Sandhibahali Stone Quarry 2.42 Hects	Sandhibahali Stone	Sanjay Kumar Agrawal	At/Po-Bhuliasikuan, Dist-Balangir	2673 dtd. 01/11/2017	2017-18	2021-22	13.11.2017	Working	Non-Captive	482 dtd. 13.12.2017	N20° 21' 31.32" to N20° 41' 40.02" E82° 46' 21.01" to E82° 46' 27.08" Khata No-28, Plot No-341	0.16	0.16	24200	325680 Cum	1150 Cum	1150 Cum	1150 Cum	1150 Cum	NA	NA	NA	NA	NIL	NIL	504722.00	2018888.000	N.A
49	KANTABANJI	Kukudahad Stone Quarry 0.83 Hects	Kukudahad	Rama Agarawal	At/Po/Ps-Kantabanji,Dist-Balangir	2992Dtd. 18/12/2017	2017-18	2021-22	19/12/201	Working	Non-Captive	554 Dtd. 01/12/2017	N20° 27' 47.96" to N20° 27' 51.56" E82° 56' 52.12" to E82° 56' 59.44" Khata No-224, PLOT No-2522 &2534	0.103	0.085	8300	34335Cum	820 cum	820 cum	820 cum	820 cum	NA	NA	NA	NA	NIL	NIL	313376.00	12550400.00	NA
50	KANTABANJI	Dabri Stone Quarry 3.83 Hects	Dabri	Md. Nadim	At/Po/Ps-Kantabanji,Dist-Balangir	2162 Dtd. 26.11.2018	2018-19	2022-23	01/11/2018	Working	Non-Captive	562 Dtd. 24/11/2018	N20° 29' 23.15" to N20° 29' 31.13" E82° 53' 21.06" to E82° 53' 27.15" Khata No-77, PLOT No-1653	0.3	0.129	38300	657324 Cum	1140 cum	1140 cum	1140 cum	1140 cum	NA	NA	NA	NA	NIL	NIL	4176040.00	16704000.00	NA
51	KANTABANJI	Mahakhand Stone Quarry –I 1.95 Hects	Mahakhand	Ramesh Ch. Meher	At/Po-Bhulia Sikun, Ps-Khariar, Dist-Nuapada	432 Dtd. 03/03/2015	2015-16	2019-20	01/01/2016	Working	Non-Captive	478 Dtd. 30/01/2016	N20° 22' 36.0" to N20° 22' 39.9" E82° 47' 41.3" to E82° 47' 41.8" Khata No-111, PLOT No-1524	0.180	0.112	19500	143535 Cum	1440 cum	1500 cum	1560 cum	1620 cum	NA	NA	NA	NA	506250.00	2025000.00	20250000.00	NA	NA

52	KHAPRAKHOL	Black Stone Chitkimal Stone Quarry	Chitkimal	Sananda Takur	At/Po-Chitkimalp.O-LuhasinghaDist-Balangir	342 dt. 21.03.2015 (0.267 Hects)	2015-16	2019-20	16/11/2015	Working	Captive	N.A	N20° 47' 15" to N20° 47' 17" E83° 02' 12" to E83° 02' 16" Khata No-44 Plot No-112 Working	0.065	0.045	2670 sqm	49335 Cum	2511 Cum	2537 Cum	2718 Cum	2963 Cum	N.A	N.A	N.A	N.A	5042221	4320448	4627213	5042221	NA
53	KHAPRAKHOL	Black Stone-Bhaghamunda Stone Quarry	Baghamunda	Siyaram Sharma	At/Po-Padampur Dist-Bargarh	385 Dtd. 15/02/2018 (1.732 Hects)	2018-19	2022-23	NOE/C	N.A	Captive	N.A	N20° 48' 50.26" to N20° 49' 00.55" E83° 05' 40.6" to E83° 05' 45.24" (Khata No-319 Plot No-319 and 321 NON WORKING	0.172	0.106	17320 sqm	87847 Cum	-	-	-	1020.6 Cum	-	-	-	N.A	-	-	-	NIL	NONWORKING
54	KHAPRAKHOL	Black Stone Karuanjhar Stone Quarry-II	Karuanjhar	Tahasildar, Khaprakhol	Khaprakhol, Dist-Balangir	1292 dtd. 09/08/2018 (2.02 Hects)	2018-19	2022-23	NOE/C	N.A	N.A	N.A	N20° 38' 00.00" to N20° 38' 06.43" E82° 44' 58.22" To E82° 45' 04.39" (Khata No- 126, Plot-No-1461NON WORKING	0.28	0.075	20200 sqm	244863 cUM	-	-	-	14040 CUM	-	-	-	-	-	-	-	-	NONWOKING

55	KHAPRAKHOL	Black Stone (Karuanjhar Stone Quarry-I	Karuanjhar	Tahasildar, Khaprakhol	Khaprakhol, Dist-Balangir	1652 dtd. 20/07/2017 (2.1 Hects)	2017-18	2021-2022	NOE/C	N.A	N.A	N.A	N20° 38' 24.08" to N20° 38' 31.48" E82° 44' 35.51" to E 82° 44' 43.08" Khata No-126, Plot-No-1484 NON WORKING	0.32	0.065	21000 sqm	117350 CUM	-	-	6075 CUM	6075 Cum	-	-	-	-	-	-	-		NONWOKING
56	KHAPRAKHOL	Chitkimal Stone –B Stone Quarry	Chitkimal	Siya Ram Sharma	At/Po-Padampur Dist-Bargarh	385 dt. 15.02.2018 (1.732 Hects)	2018-19	2022-23	Not Started	Working	Non Captive	N.A	NA	0.175	0.105	17320 sqm													
57	LOISINGHA	Uchhabapali Stone Quarry No-1 4.653 Hects.	Uchhabapali	Anup Ku. Jain	At/Po-Near Railway Station Road, Balangir, Mob: 9437033244	2/2014-15 dt.25/07/2014	2014-15	2018-19	18/09/2014	Working	Captive	588 Dtd. 23/11/2016 DEIAA	N 20 50' 54.8" , 20 51' 03.1"N E 83 20' 37.5", 83 20' 44.7"E Khata No-34 Plot No-597/P	260m	210m	46530	472500 Cum	2935 Cum	3375 Cum	3881 Cum	5133 Cum	NA	NA	NA	NA	303183.00	504890.00	667650.00	NA	NA

58	LOISINGHA	Uchhabapali Stone Quarry No-2 4.653 Hects	Uchhabapali	Dharuba Ku. Jain	At/Po-Near Railway Station Road, Balangir, Mob: 9437033244	3/2014-15 dt.25/07/2014	2014-15	2018-19	11/09/2014	Working	Captive	593 Dtd. 14/23/11/2016 DEIAA	N20 50' 57.2", 20 51' 06.6"N E83 20' 28.3", 83 20' 37.2"E Khata No-34 Plot No- 597/P	230m	250m	46530	220500 Cum	3312Cum	37260Cum	42780Cum	56580Cum	NA	NA	NA	NA	303183.00	504890.00	676500.00	NA	NA
59	LOISINGHA	Barkani Stone Quarry 4.856 Hects	Barkani	Pitrumal Agrawal	At-Jharmunda, Po-Pardhiapali, Balangir, Mob:7749818110	33/2014-15 Dt.	2014-15	2018-19	09/09/2014	NotWorking	Captive	4104 Dtd. 17/8/2015 SEIAA	N 20 51' 15.42", 20 51' 11.46"N E 83 19' 37.0", 83 19' 26.65"E Khata No-30 Plot No- 1/P	820m	210m	48560	130000 Cum	13500Cum	13500Cum	13500Cum	13500Cum	NA	NA	NA	NA	223950.00	175860.00	17550000.00	NA	NA
60	LOISINGHA	Babja Stone Quarry 3.35 Hects	Babja	Ashish Ku. Agrawal	At/Sudpara DistBalangir, Mob:9437097890	34/2014-15 Dtd.	2014-15	2018-19	09/09/2014	NotWorking	Captive	260 Dtd. 14/01/2016 SEIAA	N20 50' 00", 20 48' 00"N E83 20' 00", 83 20' 00"E Khata No-89 Plot No-632,802,805,806&810	170m	290m	33500	26460 Cum	13000Cum	13000Cum	13000Cum	13000Cum	NA	NA	NA	NA	193933.00	169360.00	16936000.00	NA	NA
61	LOISINGHA	Banjipali Stone Qurry 0.744 Hects	Banjipali	Rahul Mishra	At/Po-Chhatamakhana DistBalangir	4/2015 Dt.	2015-16	2019-20	30/06/2016	Working	Captive	259 Dtd. 23/06/2016 DEIAA	N 20 52' 41.04", 20 52' 54.07"N E 83 29' 41.12", 83 30' 59.24"E Khata No-	210m	150m	7440	14175Cum	23760Cum	23760Cum	23760Cum	23760Cum	NA	NA	NA	NA	21178.00	309240.00	30924000.00	NA	NA

													120, Plot No-91														
62	LOISINGHA	Taliudar Stone quarry 1 Hects	Taliudar	Mohan Ku. Patel	At/Gandhinagarpara, DistBalangir, Mob:9437151287	5/2015 Dt. 05/02/2016	2015-16	2019-20	5/02/2016	Working	Captive	106 Dtd. 11/01/2016 SEIAA	N 20 52' 58.9", 20 52' 51.5"N E 83 26' 39.2", 83 27' 04.0"E Khata No-309 Plot No-1879, 1786 & 1790	190m	120m	10000	920 Cum	1215 Cum	1215 Cum	1215 Cum	1215 Cum	NA	NA	NA	NA	149072.000	158310.000	158310.000	NA	NA
63	LOISINGHA	Dumdumi Stone Quarry No-1 2.428 Hects	Dumdumi	Bhagirath Agrawal	At/Po/Ps-Loisingha,Dist-Balangir, Mob:9937691787	10/2015 dt. 05/12/2015	2015-16	2019-20	06/12/2015	Working	Captive	4273 Dt.17/08/2015 SEIAA	N 20 52' 58.1", 20 52' 50.1" N E 83 26' 47.2", 83 27' 02.3"E Khata No- 163 Plot No-851/A	160m	220m	24280	115920 Cum	2250 Cum	2250 Cum	2250 Cum	2250 Cum	NA	NA	NA	NA	290945.00	292860.000	292860.000	NA	NA
64	LOISINGHA	Pandarani Stone Quarry No-1 4.046 Hects	Pandarani	Sunil Ku. Mishra	At/Po-Gandhinagarpara,Dist-Balangir, Mob: 9175410100	13/2015 dt. 15/01/2016	2015-16	2019-20	28/12/2015	Working	Captive	4520 dt. 17/08/2015 SEIAA	N 2052' 58.9", 20 52' 51.5"N E83 26' 39.2", 83 27' 04.0"E Khata No-285 Plot No-589	380m	350m	40460	136800 Cum	1728 Cum	1728 Cum	1728 Cum	1728 Cum	NA	NA	NA	NA	252492.00	225000.000	225000.000	NA	NA

65	LOISINGHA	Thakurpali Stone Quarry 2.189 Hects	Thakurpali	Hasmukh Patel	At/Po-Gandhinagar Para, Balangir, Mob:9937828991	15/2015 Dt. 05/02/2016	2015-16	2019-20	04/02/2016	Working	Captive	328 Dt. 14/01/2016 SEIAA	N 20 49' 53.01", 20 50' 05.29"N E 83 21' 59.02", 83 22' 07.09"E Khata No-44, PLOT No-477&479	250m	200m	21890	45000 Cum	30262Cum	30262Cum	30262Cum	30262Cum	NA	NA	NA	NA	366629.000	393740.000	393740.000	NA	NA
66	LOISINGHA	Uchhabapali Stone Quarry No-3 3.156 Hects	Uchhabapali	Ram Bhagat Agrawal	At/Po-Sargad, Boalangir Mob-9896118 5411	16/2015 Dt.01/12/2016	2015-16	2019-20	02/02/2016	Working	Captive	4494Dt. 17/08/2015 SEIAA	20 50'42.0"N, 20 51 05.4" & 83 20' 43.5"E,83 2126.8"E Khata No-34 Plot No-640/P	210m	170m	31560	238140 Cum	20255Cum	20255Cum	20255Cum	20255Cum	NA	NA	NA	NA	410694.000	366885.000	366885.000	NA	NA
67	LOISINGHA	Uchhabapali Stone Quarry No-4 4.33 Hects	Uchhabapali	Ram Bhagat Agrawal	At/Po-Sargad, Boalangir Mob-9896118 5411	17/2015 Dt.01/12/2016	2015-16	2019-20	17/08/2015	Working	Captive	4540 Dt. 17/08/2015 SEIAA	20 50'42.0"N, 20 51'05.4" & 83 20' 43.5"E, 83 21' 26.8" Khata No-34 Plot No-639 & 640/P	310m	230m	43330	272790 Cum	18904Cum	18904Cum	18904Cum	18904Cum	NA	NA	NA	NA	402689.000	342450.000	342450.000	NA	NA

68	LOISINGHA	Uchhabapali Stone Quarry No-5 3.095 Hects	Uchhabapali	Birendra Padhan	At/Po-Loisingha,Boalangir Mob-9896118 5411	18/2015 Dt.022/01/2016	2015-16	2019-20	20.01.2016	Working	Captive	4376 Dt. 17/08/2015 SEIAA	20 50'42.0"N, 20 51'05.4"& 83 20' 43.5",83 21' 26.8" Khata No-34 Plot No-597/P	210m	180m	30950	272790 Cum	1764 Cum	1764 Cum	1764 Cum	1764 Cum	NA	NA	NA	NA	4137560.00	3708000.00	3708000.00	NA	NA
69	LOISINGHA	Upar udar Stone Quarry 2.832 Hects	Upar udar	Hasmukh Patel	At/Po-Gandhinagarpara,Boalangir Mob-9937828 991	20/2015 Dt.08/12/2015	2015-16	2019-20	04.12.2015	Working	Captive	4378 Dt. 17.08.2015 SEIAA	20 49'53.01" N,20 50'05.29" N & 83 21' 59.02"E,83 22'07.09"E Khata No-114 Plot No-32/P	270m	230m	28320	56700 Cum	2025 Cum	2025 Cum	2025 Cum	2025 Cum	NA	NA	NA	NA	2664250.00	2636100.00	2636100.00	NA	NA
70	LOISINGHA	Uchhabapali Stone Quarry No-7 3.035 Hects	Uchhabapalir	Haresh Ku. Patel	At/Po-Gandhinagarpara,Boalangir Mob-9437074 691	22/2015 Dt.06/02/2016	2015-16	2019-20	14.01.2016	Working	Captive	308 Dt. 14.01.2016 SEIAA	20 50' 30.00"N,20 52' 15.00"N & 83 20' 11.00"E,83 22' 10.00"E Khata No-34 Plot No-597/P & 640/P	180m	200m	30350	128250 Cum	5040 Cum	5040 Cum	5040 Cum	5040 Cum	NA	NA	NA	NA	6381666.00	6555560.00	6555560.00	NA	NA

71	LOISINGHA	Uchhabapali Stone Quarry No-8 2.71 Hects	Uchhabapali	Ram Bhagat Agrawal	At/Po-Sargad, Boalangir Mob-9896118 5411	23/2015 Dt.07.11.2015	2015-16	2019-20	17.11.2015	Working	Captive	4450 Dt. 17/08/2015 SEIAA	20 50' 42.0"N, 20 51' 05.4"N & 83 20' 43.5"E, 83 21' 26.8"E Khata No-34 Plot No-751/P	270m	160m	27190	129600 Cum	18000 Cum	18000 Cum	18000 Cum	NA	NA	NA	NA	24233.00	234360.00	234360.00	NA	NA
72	LOISINGHA	Uchhabapali Stone Quarry No-9 3.035 Hects	Uchhabapali	Haresh Ku. Patel	At/Po-Gandhinagarpara,Boalangir Mob-9437074 691	24/2015 Dt.10.02.2016	2015-16	2019-20	14.01.2016	Working	Captive	336 Dt. 14/01/2016 SEIAA	20 50' 30.00"N,20 52' 15.00"N & 83 20' 11.00"E,83 22' 10.00"E Khata No-34 Plot No-714	160m	230m	30350	60480 Cum	25200 Cum	25200 Cum	25200 Cum	NA	NA	NA	NA	NA	330627.00	327960.00	327960.00	NA
73	LOISINGHA	Uchhabapali Stone Quarry No-6 3.035 Hects	Uchhabapali	Tahasildar, Loisingha	C/o-Tahasildar Loisingha, At/Po-Loisingha,Boalangir	NA	2015-16	2019-20	NA	Non Working	Captive	NA	20 50' 49.1"N,20 50' 56.8"N & 83 21' 01.7"E,83 21' 07.7"E Khata No-34 Plot No-640/P	184m	120m	30350	13248 Cum	-	-	-	-	NA	NA	NA	NA	NA	-	-	-	NONWORKING

74	LOISINGHA	Kushmel Stone Quarry 5 Hects	Kushmel	Gouri Shankar Behera	At-Sialbahali Po-Icchapur,Subarnapur,Mob-9937930951	25/2015 Dt.22/03/2017	2015-16	2019-20	23.01.2016	Working	Captive	586 Dt. 23.11.2016 SEIAA	20 48' 08.2"N, 20 48' 16.2"N & 83 24' 51.9"E,83 24' 51.9"E Khata No-330 Plot No-699	250m	330m	50000	133650 Cum	1500 Cum	15000 Cum	15000 Cum	15000 Cum	NA	NA	NA	NA	NA	49110.00	202860.00	0.00	NA
75	MURIBAHAL	Hadhada Stone Qyarry 0.8 Hects	Hadhada	Lokesh Rosan Mishra	At/Po-Lakhaana, Kantabanjhi, Balangir, Mob: 8249598552	1596 dt.29/10/2015	2015-16	2019-20	27/01/09/2016	Working	Captive	1228 Dt. 26/04/2015 SEIAA	N20° 21' 40.8" to N20° 21.06' 43.8" E83° 00' 1.05" to E83° 00' 5.92" Khata No-37 Plot No-177	0.380	0.050	8000 sqm	82620 Cum	1200 Cum	13200 Cum	13800 Cum	14400 Cum	NA	NA	NA	NA	NA	461562.00	461562.00	461562.00	--	
76	MURIBAHAL	Andaldarah Stone Quarry 0.809 Hects	Andaldarah	Pruthiraj Patra	At/Po/ Kantabanji, Balangir, Mob: 9437204394	NA	2015-16	2019-20	21/11/2015	Working	Captive	4388 Dt. 17/08/2015	20˚ 29' 20.12" N to 20˚ 29'25.36" N to 83˚ 01´ 40.16˝ E to 83˚ 01´ 46.43˝ E Khata No-71 Plot No-932	0.390	0.030	8090 sqm	8090	1152.6	1152.6	1152.6	1152.6	NA	NA	NA	NA	NA	612533.00--	612533.000-	612533.000	--	

77	MURIBAHAL	Sargul Stone Quarry 1.32 Hects	Sargul	Anup Ku. Agrawal	At-Kantabanji Ward No 7, Balangir	1597 dt. 29/10/2015	2015-16	2019-20	31/08/2016	Temp	Non Captive	256 Dt. 23/06/2016	N20° 30' 02.07" to N20° 30' 6.07" E83° 6' 18.02" to E83° 6' 22.08" Khata No-71 Plot No-932	0.480	0.154	13200 sqm	7920	908	908	908	908	NA	NA	NA	NA	323598.0	323598.0	323598.000	NA		
78	MURIBAHAL	Khapadarah Stone Quarry-I 1.32 Hects	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Lost Physibility hence extinction proposal has been send from this office vide ltr. No 2247/16.09.2017					
79	MURIBAHAL	Khapadarah Stone Quarry-II 1.32 Hects	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Lost Physibility hence extinction proposal has been send from this office vide ltr. No 2247/16.09.2017					
80	PATNAGARH	(BLACK STONE)Guhuriamunda Stone Quarry	Guhuriamunda	Suresh Agrawal	At/Po-Kadopara, Patnagarh, Balangir, Mob: 9938025024	332 dt.02.03.2015	2015-16	2019-20	29/10/2015	Working	Captive	4932 Dt. 17/08/2015 SEIAA	N 20 50' 54.8" , 20 51' 03.1"N E 83 20' 37.5", 83 20' 44.7"E Khata No-68 Plot No-13 A/P	1.21 Hects			44688 Cum	17000 Cum	18600 Cum	19680 Cum	20500 Cum	NA	NA	NA	NA	651368.00	581627.00	267336.000	NA	NA	

81	PATNAGARH	(BLACK STONE) Jhulenber Stone Quarry	Jhulenber	Suresh Agrawal	At/Po-Kadopara, Patnagarh, Balangir, Mob: 9938025024	329 dt.02/03/2015	2015-16	2019-20	23/11/2015	Working	Captive	4393 Dt. 17/08/2015 SEIAA	N 20 44' 35.6", 20 44 36.2"N E 83 04' 57.7", 83 04' 59.6"E Khata No-141 Plot No- 490	2.12 Hects			85376.5 Cum	1476 Cum	1520 Cum	1533 Cum	2075 Cum	NA	NA	NA	NA	4865860.00	4371337.00	1895558.00	NA	NA
82	PATNAGARH	(BLACK STONE) Amdaraha Stone Quarry	Amdaraha	Haresh Patel	At-Gandhinagarhpada, Po/Dist-Balangir	2888 Dt. 12/08/2016	2016-17	2020-21	29/09/2018	Working	Captive	434 Dt. 22/09/2017 DEIAA	N 20 36' 04.9", 20 36' 12.1"N E 83 07' 48.3", 83 07' 54.0"E Khata No-81 Plot No-451	2.023 Hects			95000 Cum	3960 Cum	3960 Cum	3960 Cum	3960 Cum	NA	NA	NA	NA	NA	4705757.00	2163455.00	------	Case formone yr etu rnks
83	PATNAGARH	(BLACK STONE) Guhuriamunda Stone Quarry	Guhuriamunda	Suresh Agrawal	At/Po-Kadopara, Patnagarh, Balangir, Mob: 9938025024	4176 dt.13/12/2017	2017-18	2021-22	NA	Non Working	NA	NA	N 20 40' 31.44", 20 40' 41.02"N E 83 04' 23.01", 83 04' 28.33"E Khata No-68 Plot No-13	2.02 Hects			233100 Cum	3900 Cum	3900 Cum	3900 Cum	3900 Cum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NonWorking

84	PUINTALA	Kulerbahali Stone Quarry 0.433 Hects	Kulerbahali	Umesh Kumar Mahakur	At/Po-Ainlasari, Sauntpur, Balangir	458 dt.18/03/2015	2015-16	2019-20	01/03/2016	Working	Captive	385 Dt. 25/01/2016	N20° 38' 2.84" to E20° 38' 2.50" E83° 32' 31.63" to E83° 32' 33.56" Khata No-84 Plot No-292	0.115	0.043	4330 sqm	23254 Cum	800 Cum	800 Cum	800 Cum	800 Cum					NA	NA	NA	NA	NA	NA
85	PUINTALA	Kuntenpali Stone Quarry 2.023 Hects	Kuntenpli	Anurag Agrawal	Staten Road, Balangir	456 dt.16/03/2015	2015-16	2019-20	29/03/2016	Working	Captive	444 Dt. 30/01/2016	N20° 37' 49.36" to E20° 37' 56.6" E83° 34' 58.11" to E83° 35' 1.23" Khata No-126 Plot No-574	0.210	0.110	20230 sqm	111600 Cum	4050 Cum	4050 Cum	4050 Cum	4050 Cum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
86	PUINTALA	Badburkabahal Stone Quarry 2.023 Hects	Badburkabahal	Lalmohan Panda	At/Po-Rugudipada, Balangir	4335 dt. 28/02/2015	2015-16	2019-20	26/02/2015	Working	Captive	566 Dt. 23/11/2016 DEIAA	N20° 38' 2.84" to E20° 38' 2.50" E83° 32' 31.63" to E83° 32' 33.56" Khata No-77 Plot No-628	0.190	0.110	20230 sqm	45126 Cum	2048 Cum	2079 Cum	2111 Cum	2142 Cum	NA	NA	NA	NA	71161.00	27348.00	154012.00	NA	NA

87	PUINTALA	Kureibahana Stone Quarry 2.66 Hects	Kureibahana	Bikram Behera	At-Gaintala, Po-Puintala, Balangir	452 Dt. 16/03/2015	2015-16	2019-20	04/01/2017	Working	Captive	679 Dt. 30/01/2016	N20° 42' 5.0" to E20° 42' 5.8" E83° 34' 43.3" to E83° 34' 43.7" Khata No-66 Plot No-603,622	0.240	0.124	26600 sqm	152462.4 Cum	1257Cum	1260Cum	1269Cum	1278Cum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
88	PUINTALA	Mahadevpali Stone Quarry 0.809 Hects	Madhabpally	Lalmohan Panda	At/Po-Rugudipada, Balangir	1021 Dt. 25./06/2015	2015-16	2019-20	30/03/2017	Working	Captive	567 Dt. 23/11/2016 DEIAA	N20° 45' 15.5" E83° 32' 59.2" Khata No-60 Plot No-135	0.098	0.085	8090 sqm	35012 Cum	540Cum	567Cum	594Cum	594Cum	NA	NA	NA	NA	187650.00	71680.00	44169.00	NA	NA	NA	NA
89	PUINTALA	Duhel Stone Quarry 2.023 Hects	Duhel	Sitansu Sekhar Mishra	At-Palaceline, Balangir	1680 Dt. 29/09/2015	2015-16	2019-20	15/03/2017	Working	Captive	572 Dt. 23/11/2016 DEIAA	N20° 38' 10.1" to E20° 38' 10.00" E83° 35' 38.1" to E83° 35' 38.3" Khata No-105 Plot No-625	0.189	0.115	20230 sqm	16875 Cum	1590Cum	1590Cum	1590Cum	1590Cum	NA	NA	NA	NA	NA	31005.00	93871.00	NA	NA	NA	NA
90	PUINTALA	Patharla Stone Quarry 2.023 Hects	Patharla	Tahasildar Puintala, C/o-Sudhan	Balangir	1680 Dt. 22/09/2015	2015-16	2019-20	17/07/2017	Working	Captive	61 Dt. 31/01/2017	N20° 38' 43.4" to E20° 38' 50.4" E83° 36' 41.8" to E83° 36' 46.7" Khata No-108	0.195	0.110	20230 sqm	56250 Cum	20000Cum	20000Cum	20000Cum	20000Cum	NA	NA	NA	NA	NA	39000.00	137200.00	NA	NA	NA	NA

				sushekher Mishra								Plot No-766/B																
91	PUINTALA	Bandhanbahal Stone Quarry 2.02 Hects	Bandhanbahal	Binod Biahri Rout	At-Thelomunda, Balangir	3330 Dt. 28/02/2015	2015-16	2019-20	NA	Working	Captive	NA	NA	0.210	0.102	20200 sqm	12852	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
92	SAINTALA	Dangarpada 'ka' Stone Quarry 1.420 Hect	Dangarpada,Saintala,Balangir	Ajit Kumar Jain	At/Po-Tusura, Dist-Balangir	1069 dt.25/05/2015	2015-16	2019-20	26.04.2015	Working	Captive	2212/SEIAA-26.04.2016	N 20 29' 58.72", 20 30' 03.27"N E83 25' 25.82", 83 25' 20.73"E Khata No-20 Plot No-20 &25	0.320	0.120	14200	65450Cum	1527Cum	1527Cum	1527Cum	1527Cum	-	1 BCCK	4 BOOK	10 BOOKS	2035887	2638004	2638004	NA	NA
93	SAINTALA	Dungripali Stone Quarry 1.602 Hects	Dangarpalli	Fakira Behera	Ghunsar,Saintala Balangir	881 dtd. 01/05/2015	2015-16	2019-20	20/03/2018	Working	Captive	580 Dt. 23/11/2016	N 20 24' 05.9", 20 24' 10.5"N E83 23' 32.0", 83 23' 41.70"E Khata No-70 Plot No-513	0.375	0.140	16020	49725Cum	932Cum	932Cum	932Cum	932Cum	-	-	-	1 Book	-	2000000	18200000	NA	NA

94	SAINTALA	Siletpada Stone Quarry 2.320 Hects	Siletpada	Gajanan Agrawal,	At/Po-Saintala Dist-Balangir	881 dtd. 01/05/2015	2015-16	2019-20	26/02/2015	Working	Captive	-	N 20 25' 24.0", 20 25' 25.5"N E83 19' 57.3", 83 20' 05.7"E Khata No-33 Plot No-203,251,254,257	0.420	0.150	23200	30240Cum	1102 Cum	11608Cum	10780Cum	1241Cum	-	5 BCCKS	-	8 BOOKS	145000	2499199	NA	NA	NA
95	SAINTALA	Turchaper Stone Quarry 1.61 Hects	Turchaper	Mahesh Kumar Agrawal	At-Saintala, Balangir	452 Dt. 16/03/2015	2018-19	2022-23	-	Working	Captive	-	N 20 25' 15.25", 20 25' 19.33"N E83 23' 13.11", 83 23' 19.05"E Khata No-114 Plot No-636	0.320	0.175	16100	129455 Cum	-	-	-	1512Cum	-	-	-	-	-	-	-	-	NA
96	SAINTALA	Manamunda Stone Quarry 3.770 Hects	Manamunda	Biswajit Patra	At-Saintala, Balangir	881 Dtd. 01/05/2015	2015-16	2019-20	26.11.2015	Working	Captive	2209/SEIAA. 26.11.2016	N 20 30' 29.40", 6 30' 34.5"N E83 23' 30.8", 83 23' 33.4"E Khata No-24 Plot No-128,136/257	0.350	0.120	37700	302904 Cum	1008Cum	11480Cum	12320Cum	1260Cum	-	1 Books	-	-	-	1177183	2837333	NA	NA
97	SAINTALA	Kandhakalegaon Stone Quarry 1.690 Hects	Kandhakalegaon	Tulsiram Agrawal	At-Saintala, Balangir	881 Dtd. 01/05/2015	2015-16	2019-20	23/05/2016	Working	Captive	2516 dtd. 23/05/2016	N 20 29' 32.20", 20 29' 36"N E83 24' 41", 83 24' 45"E Khata No-159 Plot No-714,776,795	0.350	0.180	16900	29190 Cum	1189Cum	13344Cum	13921Cum	1421Cum	-	2 Books	-	8 Books	197759	2656111	NA	NA	NA

98	TITLAGARH	Burdipada-A Stone Quarry 1.618 Hects	Burdipada	Anup Das	At/Po/Ps-Titlagarh, Balangir	1303 dt.20/07/2015	2015-16	2019-20	27/01/2016	Working	Captive	316 Dt. 04/01/2016 SEIAA	N 20 17' 38.7", 20 17' 46.5"N E83 11' 14.7", 83 11' 13.8"E Khata No-189 Plot No-1226	0.120	0.080	16180 sqm	17507 Cum	-	1495 Cum	1560 Cum	1625 Cum	NA	NA	NA	NA	NA	100000	-	-	NA
99	TITLAGARH	Burdipada-B Stone Quarry 1.618 Hects	Burdipada	Ajit Sahu	At/Po/ Burdipada, Ps-Titlagarh, Balangir	1448 dt.20/07/2015	2015-16	2019-20	02/07/2016	Working	Captive	247 Dt. 23/06/2016 SEIAA	N 20 17' 45.9", 20 17' 46.9"N E 83 11' 21.7", 83 11' 23.7"E Khata No-189 Plot No-1226	0.220	0.080	16180 sqm	18145 Cum	1750 Cum	1750 Cum	1820 Cum	1820 Cum	NA	NA	NA	NA	295881.00	306528.00	306528.00	NA	NA
100	TITLAGARH	Burdipada-C Stone Quarry 1.618 Hects	Burdipada	Prakash Sahu	At/Po/ Ps-Titlagarh, Balangir	1308 dt.20/07/2015	2015-16	2019-20	27/01/2016	Working	Captive	342 Dt. 14/01/2016 SEIAA	N 20 17' 35.9", 20 17' 43.4"N E 83 11' 31.6", 83 11' 26.9"E Khata No-189 Plot No-1226	0.220	0.088	16180 sqm	24035 Cum	1600 Cum	1750 Cum	1850 Cum	2000 Cum	NA	NA	NA	NA	289125.00	311091.00	NA	0.00	NA
101	TITLAGARH	Desil-A Stone Quarry 1.214 Hects	Desil	Amit Ku. Agrawal	At/Po/ Ps-Titlagarh, Balangir	1094 dt.30/06/2015	2015-16	2019-20	15/10/2015	Working	Captive	4486 Dt. 17/08/2015 SEIAA	N 20 16' 5.9", 20 16' 9.2"N E83 10'38.8", 83 10' 44.8"E Khata No-178 Plot No-940 /P	0.176	0.080	12140 sqm	96216 Cum		1330 Cum	1295 Cum	1365 Cum	NA	NA	NA	NA	NA	125935.00	NA	NA	NA

102	TITLAGARH	Desil-B Stone Quarry 1.214 Hects	Desil	Sujit Ku. Bhuyan	Attorney Holder Rajlaxmi Construction Ltd., At/Po/ New Industrial Estate, Jagatpur, Dist-Cuttack	941 dt.19/06/2015	2015-16	2019-20	15/10/2015	Working	Captive	4518 Dt. 17/08/2015 SEIAA	N20 16' 8.4", 20 16' 13.2"N E83 10' 37.7", 83 10' 40.5"E Khata No-178 Plot No-940/P	0.208	0.080	12140 sqm	95000 Cum		972 Cum	966 Cum	966 Cum	NA	NA	NA	NA	170130.00	169218.00	169218.00	NA	NA
103	TITLAGARH	Desil-C Stone Quarry 1.214 Hects	Desil	Mnoj Ku. Goel	At-Ward No. 2, Po/Ps-Titilagarh, Balangir	945 dt.19/06/2015	2015-16	2019-20	15/10/2015	Working	Captive	3933 Dt. 10/07/2015 SEIAA	N20 16' 10.1", 20 16' 12.7"N E83 10' 40.5", 83 10' 41.8"E Khata No-178 Plot No-940/P	0.140	0.088	12140 sqm	51570 Cum	1242 Cum	1288 Cum	1288 Cum	1242 Cum	NA	NA	NA	NA	218194.00	218194.00	211197.00	NA	NA
104	TITLAGARH	Desil-D Stone Quarry 1.214 Hects	Desil	Chhatrapal Jain	At/Po/Ps-Titilagarh, Balangir	925 dt.19/06/2015	2015-16	2019-20	15/10/2015	Working	Captive	4496 Dt. 17/08/2015 SEIAA	N20 16' 8.4", 20 16' 11.2"N E83 10' 42.3", 83 10' 43.4"E Khata No-178 Plot No-940 /P	0.140	0.080	121400 sqm	37192 Cum	1064 Cum	1200 Cum	1440 Cum	1596 Cum	NA	NA	NA	NA	204809.00	241313.00	NA	NA	NA
105	TITLAGARH	Dumdumi Stone Quarry 1.011 Hects	Dumdumi	Subash Bisoi	At/Pipilibandh, Po-Siker, Ps-Titilagarh, Balangir	930 dt.19/06/2015	2015-16	2019-20	15/10/2015	Working	Captive	4552 Dt. 17/08/2015 SEIAA	N20 20' 50.8", 20 20' 52.7"N E83 11' 25.0", 83 11' 23.5"E Khata No-40 Plot No-62, 172	0.125	0.070	10110 sqm	65778Cum	1300 Cum	1300 Cum	1300 Cum	1300 Cum	NA	NA	NA	NA	216292 92.00	216292 92.00	216292 92.00	NA	NA

106	TITLAGARH	Junapada Stone Quarry 0.809 Hects	Junapada	Bibhu Prasad Nag	At/Po-Naren, Ps-Titilagarh, Balangir	1558 dt.12/08/2015	2015-16	2019-20	23/06/2016	Working	Captive	248 Dt. 23/06/2016 DEIAA	N20 15' 08.9", 20 15' 9.2"N E83 05' 16.3", 83 05' 16.8"E Khata No-24 Plot No-1	0.110	0.050	8090 sqm	79290Cum	1140Cum	1140Cum	1140Cum	1140Cum	NA	NA	NA	NA	197373.00	197373.00	197373.00	NA	NA
107	TITLAGARH	Kotmara Stone Quarry 0.607 Hects	Kotamara	Manpati Mungri	At-Kotmara, Po-Kursud, Ps-Sindhekela, Balangir	1818 dt.22/10/2016	2016-17	2020-21	25/09/2017	Working	Captive	425 Dt. 16/09/2017	N20 11' 56.3", 20 11' 59.9"N E82 56' 27.1", 82 56' 29.."E Khata No-108 Plot No-487	0.105	0.060	6070 sqm	16250 Cum		432Cum	960Cum	960Cum	NA	NA	NA	NA	NA	76723.00	157032.000	157032.000	NA	NA
108	TITLAGARH	Kumuda Stone Quarry 1.214 Hects	Kumuda	Anjani Prasad Dash	At-Sargiguda, Po/Ps-Titilagaarh, Balangir	1067 dt.29/06/2015	2015-16	2019-20	15/10/2015	Working	Captive	4544 Dt. 17/08/2015	N20 16' 10", 20 16' 14"N E83 09' 57", 83 10' 03" E Khata No-170 Plot No-884	0.140	0.080	12140 sqm	49851 Cum		1120Cum	1176Cum	960Cum	NA	NA	NA	NA	192641.00	201159.00	NA	NA	NA	NA
109	TITLAGARH	Limpada Stone Quarry 1.63 Hects	Limpada	Dinesh Humar Jain	At/Po-Belgaon, Ps-Saintala, Balangir	1841 dt.22/10/2016	2016-17	2020-21	20/10/20107	Working	Captive	431 Dt. 22/09/2017 DEIAA	N20 18' 58.7", 20 18' 08.8"N E83 17' 19", 83 17' 23.9" E Khata No-26 Plot No-231,257,366	0.160	0.090	16300 sqm	92330 Cum	1125Cum	1225Cum	1375Cum	1375Cum	NA	NA	NA	NA	NA	124077.00	NA	NA	NA	NA

110	TITLAGARH	Nimurla-II Stone Quarry 0.405 Hects	Nimurla	N. Ranjit	C/o-ARSS Infrastructure Project Ltd.,At-Nimurla, Po-Khursud, Ps-Titilagarh, Balangir, Ph-7894476391	368 dt.11/02/2016	2015-16	2019-20	02/07/2016	Working	Captive	255 Dt. 23/06/2016 DEIAA	N20 10' 44.05", 20 10' 44.09"N E80 59' 24.02", 82 59' 25.07" E Khata No-144 Plot No-1398	0.068	0.048	4050 sqm	5200 Cum	1900Cum	3420Cum	5360Cum	7500Cum	NA	NA	NA	NA	501609.00	781929.00	1091149.000	NA	NA
111	TITLAGARH	Nimurla-III Stone Quarry 0.202 Hects	Nirmula	Mukesh Jain	At/Po-Kursud, Ps-Sindhekela, Balangir	920 dt.19/06/2015	2015-16	2019-20	27/01/2016	Working	Captive	4615 Dt. 14/01/2016 SEIAA	N20 10' 37.8", 20 10' 38.9"N E82 58' 53.3", 82 58' 53.0" E Khata No-144 Plot No-1292	0.052	0.052	2020 sqm	13756 Cum	600Cum	780Cum	900Cum	900Cum	NA	NA	NA	NA	1223477.00	1405999.00	1405999.000	NA	NA
112	TITLAGARH	Sihini Stone Quarry 1.214 Hects	Sihini	Gajendra Chhatar	At/Po-Sihini, Ps-Titilagarh, Balangir	1061 dt.16/07/2015	2015-16	2019-20	15/10/2015	Working	Captive	4289 Dt. 17/08/2015 SEIAA	N20 15' 39.4", 20 15' 43.1"N E83 08' 08.9", 83 08' 08.8" E Khata No-233 Plot No-108	0.080	0.084	12130 sqm	100628.75 Cum	1425Cum	1450Cum	1500Cum	1600Cum	NA	NA	NA	NA	2784433.00	2872766.00	2313433.000	NA	NA

113	TITLAGARH	Sihin-2 Stone Quarry 0.809 Hects	Sihini	Mohammad Jumma	At/Madbhatipada,Po/Ps-Titilagarh, Balangir	1861 dt.25/10/2016	2016-17	2020-21	10/02/2016	Working	Captive	62 Dt. 31/01/2017 DEIAA	N20 15' 44.7", 20 15' 49.1"N E83 08' 01.3", 83 08' 05.2" E Khata No-233 Plot No-108	0.070	0.063	8090 sqm	50209 Cum	NIL	960Cum	1040Cum	1120Cum	NA	NA	NA	NA	NA	146267.00	NA	NA	NA
114	TITLAGARH	Turla Stone Quarry 1.618 Hects	Turla	Hemraj Kharsel	At/Turla, Po-Jagua, Ps-Titilagarh,, Balangir	1071 dt.29/06/2015	2015-16	2019-20	15/10/2015	Working	Captive	4287 Dt. 17/08/2015 SEIAA	N20 15' 47.2", 20 15' 51.9"N E83 08' 01.8", 83 08' 08.3" E Khata No-196 Plot No-1031/P	0.220	0.104	16180 sqm	290805.45 Cum	1500Cum	1530Cum	1530Cum	1530Cum	NA	NA	NA	NA	300012.00	1796555.00	300012.00	NA	NA
115	TITLAGARH	Nirmula Stone Quarry-I 0.809 Hects.	Nirmula	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	NA
116	TITLAGARH	Siker Stone Quarry 1.618 Hects.	Siker	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	NA

117	TUSRA	Kukedmal Stone Quarry 3.820 Hect	Kukedmal	Sri Tulsiram Agarwal	At/Po-Saintala, Bolangir Mob-9437036208	281 dt.20.02.2015	2015-16	2019-20	25.06.2016	Working	Non-Captive	Lt. 257 Dtd. 23.06.2016	20 26' 00.09"N,20 26 05.9 N & 83 26' 36.7"E, 83 26' 43.4"E Khata No-84 Plot No-132 & 133	0.270	0.124	3820	435527 Cum	1044 Cum	1100 Cum	1159 Cum	1210 Cum	NA	NA	NA	NA	115737.20	115737.20	115737.20	115737.20	NA

ROAD METAL/ BLACKSTONE/WHITESTONE/LATERITE/ MORRUM/EARTH FOR ROAD CONSTRUCTIO/EARTH FOR BRICK MAKING SAIRATS PROPOSED TO BE LEASED OUT IN NEXT 5 YEARS (20-21 TO 24-25)

(TO BE FILLED BY TAHASILDARS FOR RESPECTIVE TAHASILS)

A. FOR EXECUTED SOURCES TO BE REAUCTIONED

Sl. No.	Name of Tahasil	Name of village	Name of Minor Mineral and Area of Sairat (Ha)	Location of the Source (Total Hillock) recommended for mineral concession (GPS co-ordinates or Khata & Plot No) (Sketch map to be attached)	Area of the mineral potential patch (in sq m)	Average height of potential patch (in m)	Mineable mineral potential (in cum)	MGQ (cum)	Aerial distance in km from different water related structures					Aerial Distance and name from village and public places in km					Aerial Distance and name from diff Roads					Aerial Distance and name from diff Forest related features			Aces road exists or not (Yes or No)	Approval of Authority of Dir of Geology declaring the source unsuitable for decorative stone (Only for Road metal and Stone sources) & OSPCB
									Bridge	Culvert	Dam/ Embankment	River/ Stream /canal /Pond/ Water Harvesting structure (with name)	Any other cross drainage structure	Village	School	College	Temple/ Place of Any worship	Any other public place (specify)	NH	State Highway	Village Road	RLY Line	Any other Road	Sanctuary/ Wildlife habitat	RF /PF /PRF	Biosphere		
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	Y	Z	a	b	c	d

SOURCES TO BE REAUCTIONED AFTER COMPLETION OF PRESENT LEASE PERIOD																												
1	AGALPUR	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
2	BANGOMUNDA	Bhirkapada, Bangomunda	Bhirkapada Stone Quarry 0.19 Hects	20˚ 18' 26.0" N to 20˚ 18' 28.0" N To 82˚ 53′ 34.7″ E to 82˚ 53′ 36.2″ E Khata No- 83 Plot No-127, Kisam - Dunguri	1900	1	3250	400	4	2	80 Patara	8 Sundar Nadi	NA	2 Bhirkapada	2 Bhirkapada u. p school	5 BAngomunda	2 Village Temple	NA	10 NH-59	7 SH-42	500 mtr Bhirkapada	27 East coast Railway line	NA	45 Sunabeda Wild Life	8 Bundia P.F	45	Yes	Approved for road metal
3	BANGOMUNDA	Barlabahali	Barlabahali Stone Quarry 1.214 Hects	20˚ 17' 48.1" N to 20˚ 17' 52.3" N To 82˚ 49′ 00.4″ E to 82˚ 49′ 05.6″ E Khata No-54 Plot No-1/431, Kissam-Dunguri	12140	16	11250	2200	2.5	2	92 Patara	5 Sundar Nadi	NA	1 Sandbahali	2 Sindhbahali school	8 BAngomunda	1.5 Village Temple	NA	14 NH-59	2 SH	500 mtr Baldha	6 East coast Railway line	NA	52 Sunabeda Wild Life	2 Bundia P.F	52	Yes	Approved for road metal
4	BANGOMUNDA	Deheli Stone Quarry	Deheli Stone Quarry 0.607 Hects	20˚ 13' 42.8" N to 20˚ 13' 45.6" N To 82˚ 57′ 30.5″	6070	11	11250	2200	3	2	64 Patara	2 Sundar N	NA	1 Deheli	1 Deheli school	2 Sindheikela	2 Sindheikela Village	NA	1.5 NH59	1 SH	500 mtr	30 East coast Ra	NA	48 Sunabeda Wild Life	500 mtr	48	Yes	Approved for road metal

				E to 82° 57′ 34.0″ E Khata No- 107 Plot No-709(A) Kissam-Parbat							adi					Temple					ilway line			Sindheikela RF			
5	BANGOMUNDA	Salemudga	Salemudga Stone Quarry-A 1.618 Hects	20° 14' 30.8" N to 20° 14' 36.6" N To 82° 56′ 52.3″ E to 82° 56′ 58.1″ E Khata No-40 Plot No-398(A) Kissam-Dunguri	16180	11	129490	1500	3	2	69 Patharа	3 Sundar Nadi	NA	1 Salemudga	1 Salemudga school	2 Sindheikela	2 Sindheikela Temple	NA	1 NH-59	500mtr	500 mtr	35 East coast Railway line	NA	53 Sunabeda Wild Life	2 Mungal Pahar RF	53	Yes	Approved for road metal
6	BANGOMUNDA	Salemudga	Salemudga Stone Quarry-B 1.618 Hects	20° 14' 31.1" N to 20° 14' 36.1" N To 82° 56′ 45.5″ E to 82° 56′ 50.9″ E Khata No-40 Plot No-398,(B) Kissam-Dunguri	16180	8	138103	1500	3	2	69 Patharа	3 Sundar Nadi	NA	1 Salemudga	1 Salemudga school	2 Sindheikela	2 Sindheikela Temple	NA	1 NH-59	500mtr	500 mtr	35 East coast Railway line	NA	53 Sunabeda Wild Life	2 Mungal Pahar RF	53	Yes	Approved for road metal

7	BANGOMUNDA	Sangamada	Sangamada-A Road Metal Quarry 1.214 Hects	20˚ 23' 03.2" N to 20˚ 22' 56.9" N To 82˚ 49´ 10.4˝ E to 82˚ 49´ 01.4˝ E Khata No-96, Plot No-03, Kissam-Dunguri	12140	4	58080	2000	3	1	74 Patara	2 Arjun Nadi	NA	2 Jurabandh	2 Jurabandh	3 Mahakhand	3 Jurabandh	NA	21 NH-59	2	500 mtr	15 East coast Railway line	NA	48 Sunabeda Wild Life	500 mtr Chhatradandi RF	48	Yes	Approved for road metal
8	BANGOMUNDA	Sangamada	Sangamada-B Road Metal Quarry 1.214 Hects	20˚ 22' 54.7" N to 20˚ 22' 59.1" N To 82˚ 49´ 00.6˝ E to 82˚ 49´ 09.6˝ E Khata No-96 Plot No-03, Kissam-Dunguri	12140	4	80820	4000	3	1	74 Patara	2 Arjun Nadi	NA	2 Jurabandh	2 Jurabandh	3 Mahakhand	3 Jurabandh	NA	21 NH-59	2	500 mtr	15 East coast Railway line	NA	48 Sunabeda Wild Life	500 mtr Chhatradandi RF	48	Yes	Approved for road metal
9	BANGOMUNDA	Sangamada	Sangamada-C Road Metal Quarry 1.214	20˚ 22' 53.7" N to 20˚ 23' 00.1" N To 82˚	12140	4	65450	2000	3	1	74 Patara	2 Arjun	NA	2 Jurab	2 Jurabandh	3 Mahakhand	3 Jurabandh	NA	21 NH-5	2	500 mtr	15 East coast	NA	48 Sunabeda Wild Life	500 mtr	48	Yes	Approved for road metal

			Hects	48′ 56.5″ E to 82° 49′ 03.7″ E Khata No-96 Plot No-03(C), Kissam-Dunguri								Nadi		andh					9			Railway line			Chhatradandi RF			
10	BANGOMUNDA	Sahajot	Sahajot Stone Quarry 1.537 Hects	20° 18' 45.18" N to 20° 18' 49.21" N To 82° 54′ 00.26″ E to 82° 54′ 03.33″ E Khata No-61 Plot No-447(A)	15370	6	119400	1260	3	1	68 Patthara	7 Bagiharan Johr	NA	1 Sahjot	1 Sahjot	3 Bangomunda	3 Bangomunda	NA	5 NH-59	2	500 mtr	24 East coast Railway line	NA	59 Sunabeda Wild Life	7	59	Yes	Approved for road metal
11	BANGOMUNDA	Sindhbhadi	Sindhbhadi Road Metal-II 2.46 Hects	20° 17' 14.18" N to 20° 17' 17.36" N To 82° 50′ 32.22″ E to 82° 50′ 38.53″ E Khata No- 86 Plot No-561,	24600	6	125290	1350	1	2	73 Patthara	1 Bagiharan Johr	NA	1 Sindhbhadi	1 Sindhbhadi	3 Bangomunda	7 Bangomunda	NA	4 NH-59	3	2	28 East coast Railway line	NA	78 Sunabeda Wild Life	3 Bundia RF	78	Yes	Approved for road metal

				Kissam-Dunguri																							
12	BANGOMUNDA	Sindhbhali	Sindhbhadi Road Metal-I 2.44 Hects	20° 17' 18.21" N to 20° 17' 23.46" N to 82° 50´ 34.17˝ E to 82° 50´ 38.22˝ E Khata No-86 Plot No-85 Kissam-Pathara Chatan	24400	6	220500	1350	1	2	73 Pathara	500mtr Bagiharan Johr	NA	1 Sindhbhadi	1 Sindhbhadi	3 Bangomunda	7 Bangomunda	NA	4 NH-59	3	2	28 East coast Railway line	NA	78 Sunabeda Wild Life	3 Bundia RF	78	Yes	Approved for road metal
13	BELPADA	Dakara,	Dakara Stone Quarry 1.08 Hects	N20° 31' 08.1" to N20° 31' 16.1" E83° 00' 36.1" to E83° 00' 29.6" Khata No-126/174 Plot No-183 , Kissam-Pathar Chatan	1277	2	34479	1350	3	2	50 Sutkel	5 Sutkel River	NA	1 Dakara	1 Dakara	10 Belpara	50 Harishankar	NA	40 NH-59	10 SH	1	25 East coast Railway line	NA	70 Sunabeda Santuary	3 Benderi R.F	70	Yes	Approved for road metal
14	BELPADA	Mandal,	Mandal Stone Quarry-I 4.5 Hects	N20° 35' 14.66" to N20° 35' 02.00" E82° 59' 55.35" to E83° 00' 07.88"	45000	2	187020	2800	1	4.5	32 Katradhari 4.	7 Kusumi R	NA	800mtr J	1.5 Haripursa	2.3 Nachuni	6 Jagannath Tem	NA	1 NH-5	34 SH-1	500mtr Kaithapali	2 East coas	NA	6 Chilika Bird Santuary	4 Khuhudi	3	Yes	Approved for road metal

				Khata No- 229 Plot No-34 Kissam-Pathar Chatan							5 Balia	iver		ariput	sanu.pschool		ple					tRailway line			R.F/2Kunjuri PRF			
15	BELPADA	Mandal,	Mandal Stone Quarry-II 1.736 Hects	N20° 34' 47.5" to N20° 34' 40.8" E83° 00' 44.4" to E83° 00' 52.6" Khata No-229 Plot No-228,219, 348 Kissam-Pathar Chatan	17360	2	72468	2000	1	4.5	32 Katradhari 4.5 Balia	7	NA	800mtr Jariput	1.5 Haripursasanu.pschool	2.3 Nachuni	6 Jagannath Temple	NA	1 NH-5	34 SH-1	500mtr Kaithapali	2 East coast Railway line	NA	6 Chilika Bird Santuary	4 Khuudi R.F/2Kunjuri PRF	3	Yes	Approved for road metal
16	BELPADA	Tara,	Tara Stone Quarry 2.51 Hects	N20° 40' 07.49" to N20° 40' 00.79" E83° 59'	25100	2	182808	1800	1	4.5	32 Katradh	7	NA	800mt	1.5 Har	2.3 Nachuni	6 Jagannat	NA	1 NH-	34 SH	500mtr Kai	2 East	NA	6 Chilika Bird	4 Kuh	3	Yes	Approved for road metal

				31.48" to E83° 59' 17.57" Khata No- 119 Plot No-979 Kissam-Pathar Chatan							ari 4.5 Balia			r Jariput	ipur sasan u. p school		h Temple		5	-1	thapali	coast Railway line		Santuary	udi R.F /2 Kunjuri PRF			
17	BELPADA	Admunda	Admunda Stone Quarry 1.982 Hects	N20° 42' 22.2" to N20° 42' 44.4" E83° 53' 47.6" to E82° 53' 49.3" Khata No-58,Plot No-66, Kissam-Dunguri	19820	2	98982	2600	4	2	50 Sutkel	1 Sutkel River	NA	1 Dakara	1 Dakara	10 Belpara	50 Harishankar	NA	40 NH-59	10 SH	1	25 East coast Railway line	NA	70 Sunabeda Santuary	3 Benderi R.F	70	Yes	Approved for road metal
18	BELPADA	Malijhar	Malijhar Stone Quarry 2.67Hects	N20° 37' 52.49" to N20° 37' 46.52" E83° 01' 10.66" to E83° 01' 17.00" Khata No- 76	26700	2	133920	1600	1	4.5	32 Katradhari 4.5	7	NA	800mtr Jar	1.5 Haripursasan	2.3 Nachuni	6 Jagannath Temple	NA	1 NH-5	34 SH-1	500mtr Kaithapali	2 East coast R	NA	6 Chilika Bird Santuary	4 Kuhudi R.	3	Yes	Approved for road metal

				Plot No-633 Kissam-Pathar Chatan							Balia			input	u.p school						railway line			F/2 Kunjuri PRF			
19	BELPADA	Dunguripalli	Dunguripalli Stone Quarry-I 3.023 Hects	N20° 30' 14.4" to N20° 30' 16."1" E82° 53' 45.9" to E82° 53' 48.6" Khata No-104/298 Plot No-256,143, 144,298, 318,378, 384,385, 256/1239, 256/1240,256/1281,256/1242,338, 356,382, 332,337 Kissam-Pathar Chatan	30230	5	100444	1650	2	1	64 Sutkel	10	Lanth River	NA	500mtr Dunguripali	1 Dunguripali	10 Kantabanjhi	62 Harishankar	NA	20 NH-59	1 SH	800	7 East coast Railway line	NA	76 Sunabeda Santuary	4 Lamphuta RF	76	Yes	Approved for road metal
20	BELPADA	Bhuliabandh	Black Stone-Bhuliabandha Stone	N20° 36' 17.80" to N20° 36' 12.64"	20230	2	204840	3870	6.3	1	63 Sutk	4	Bhuliabandh	0.9R	11	7	35.5 Har	NA	29.3N	5.4	0.5	22.7 E	NA	62.2 Sunab	2.8	70	Yes	Approved for road metal

			Quarry 2.023 Hects	E83° 04' 22.88" to E83° 04' 29.68" Khata No-53, PLOT No-07 Kissam-Dunguri							el			adbahal			ishankartemple		H-59	SH		astcoastRailwayline		eda Santuary	Sana Buthikudari RF			
21	BELPADA	Bahabal	Black Stone-Bahabal Stone Quarry 1.08 Hects	N20° 32' 00.02" to N20° 32' 06.9" E82° 58' 54.6" to E82° 58' 48.9" KhataNo-120, Plot No-245,784 Kissam-Pathar Chatan	10800	3	54864	1500	2	3	60	5	NA	1 Bahabal	1.2	8	45 Harishankartemple	NA	20	3	500	20 East coast Railway line	NA	80 Sunabeda Santuary	7	60	Yes	Approved for road metal
22	BOLANGIR	Basupali-	Basupali-1 Stone Quarry 1.780 Hects	20˚ 37' 16.6" N to 20˚ 37' 24.9" N To 83˚ 26´ 40.1˝ E to 83˚ 26´ 47.0˝ E Khata	17800	3	75950	4400	23	21	42 Krupasindhu Dam	18 Sutkel Riv	NA	2 Basupali	1.5 u.p school	10 Balangir	1 Village	NA	24 NH-26	25 SH-42	500mtr	5 E/c Railway line	NA	89Sunabeda	200 mtr	89	Yes	Approved for road metal

				No- 14 Plot No- 101 Kissam- Kudar								er															
23	BOLANGIR	Basupali	Basupali-2 Stone Quarry 2.023 Hects	N20° 37' 30.00" to N20° 37' 32.70" E83° 26' 52.70" to E83° 26' 51.80" Khata No- 14 Plot No- 79/B/1	20230	3	149580	5000	23	21	42 Krupasindhu Dam	18 Sutkel River	NA	2 Basupali	1.5 u.p school	10 Balangir	1 Village	NA	24 NH-26	25 SH-42	500mtr	5 E/c Railway line	NA	89Sunabeda	200 mtr	89	Yes	Approved for road metal
24	BOLANGIR	Basupali	Basupali-3 Stone Quarry 2.023 Hects	20˚ 37' 13.2" N to 20˚ 37' 21.5" N To 83˚ 26′ 31.5″ E to 83˚ 26′ 43.8″ E Khata No- 14 Plot No- 79/A, 101/A Kissam- Kudar	20230	4	77455	4400	23	21	42 Krupasindhu Dam	18 Sutkel River	NA	2 Basupali	1.5 u.p school	10 Balangir	1 Village	NA	24 NH-26	25 SH-42	500mtr	5 E/c Railway line	NA	89Sunabeda	200 mtr	89	Yes	Approved for road metal

25	BOLANGIR	Basupali	Basupali-4 Stone Quarry 2.023 Hects	20˚ 37' 23.4" N to 20˚ 37' 30.6" N To 85˚ 26´ 48.5˝ E to 85˚ 26´ 59.6˝ E Khata No- 14 Plot No- 79 Kissam- Kudar	20230	4	86400	5000	23	21	42 Krupasindhu Dam	18 Sutkel River	NA	2 Basupali	1.5 u.p school	10 Balangir	1 Village	NA	24 NH-26	25 SH-42	500mtr	5 E/c Railway line	NA	89Sunabeda	200 mtr	88	Yes	Approved for road metal
26	BOLANGIR	Basupali	Basupali-5 Stone Quarry 1.82 Hects	20˚ 37' 17.6" N to 20˚ 37' 25.0" N To 83˚ 26´ 37.3˝ E to 83˚ 26´ 47.5 ˝ E Khata No- 14 Plot No- 79/A, 101/A, Kissam- Kudar	18200	4	80576	4800	22	18	39 Krupasindhu Dam	17 Sutkel River	NA	2 Basupali	1.5 u.p school	10 Balangir	1 Village	NA	24 NH-26	25 SH-42	500mtr	5 E/c Railway line	NA	88Sunabeda	200 mtr	88	Yes	Approved for road metal
27	BOLANGIR	Dhulusar	Dhulusar Stone quarry 1.906 Hects	20˚ 41' 55.3" N to 20˚ 42' 02.3" N To 83˚ 18´ 23.5˝ E to 83˚ 18´ 33.6˝ E Khata No-125	19060	3	82192	2800	4	2	49 Krupasindhu Dam	2 Sutkel River	NA	1 Dhulusar	1 u.p school	12 Balangir	1 Village	NA	16 NH-26	1 SH-42	500mtr	15 E/c Railway line	NA	76Sunabeda	5	75	Yes	Approved for road metal

				Plot No-108,110 & 117, Kissam-Pathara Chatan																								
28	BOLANGIR	Barkani	Barkhani Stone Quarry 0.744 Hects	20°42'29.8" N to 20°42'33.8" N To 83°17' 27.0″ E to 83°17'30.7″ E Khata No-112 Plot No-52, Kissam-Pathar Chatan	7440	2	51400	1350	8	7	53 Krupasindhu Dam	4 Sutkel River	NA	2 Dhulusar	1 u.p school	16 Balangir	1 Village	NA	6 NH-26	10 SH-42	1	9 E/c Railway line	NA	78S unabeda	5	76	Yes	Approved for road metal
29	BOLANGIR	Bhanpur	Bhanpur-3 Stone Quarry 0.404 Hects	20°37' 26.6"N to 20°37'31.4" N To 83°17' 29.9″E to 83°17'32.6″ E Khata No-59 Plot No-444, Kissam-Dunguri	4040	2	16200	1500	8	7	53 Krupasindhu Dam	4 Sutkel River	NA	2 Dhulusar	1 u.p school	16 Balangir	1 Village	NA	6 NH-26	10 SH-42	1	9 E/c Railway line	NA	78S unabeda	5	76	Yes	Approved for road metal
30	DEOGAON	Sunarijore	Sunarijore-A Stone Quarry	20° 41' 07.39" N to 20°	32370	11	292538	200	6	5	34 Kr	15	NA	2 S	1.5	13	11 Ra	NA	8 N	3 S	3 Su	24 E/	NA	85 Sun	4	84	Yes	Approved for road

			3.237 Hects	41' 39.27" N Longitude: 83° 17′ 33.97″ E to 83° 17′ 56.31″ E Khata No- 58 Plot No- 545 Kisssam-Dunguri				0			upasindhuDam			unarijore	Sunarijore		mMandir		H-26	H-42	narijor	CRailway line		abeda Santuary				metal
31	DEOGAON	Sunarijora	Sunarijora-B Stone Quarry 0.809 Hects	20° 41' 19.93" N to 20° 41' 23.18" N To 83° 17′ 28.28″ E to 83° 17′ 34.36″ E Khata No- 58 Plot No- 279 Kisssam-Dunguri	8090	2	15932	600	7	5	36 Krupasindhu Dam	14	NA	2 Sunarijore	1.5 Sunarijore	13	12 RamMandir	NA	8 NH-26	4 SH-42	2 Sunarijor	21 E/C Railway line	NA	81 Sunabeda Santuary	4	81	Yes	Approved for road metal
32	DEOGAON	Bahali	Bahali Stone Quarry 0.339 Hects	20° 31' 07.39" N to 20° 31' 09.27" N To 83° 23′ 33.97″ E to 83° 23′ 36.31″ E Khata	3390	4	5120.5	1000	5	4	38 Krupasindhu Dam	12	Suktel River	NA	1 Bahali	1.5 Bahali	11	18 RamMandir	NA	13 NH-26	2 SH-42	1 Dehli	14 E/C Railway line	NA	78 Sunabeda Santuary	3	78	Yes	Approved for road metal

				No-107 Plot No-1147 Kissam-patharchatan								r																
33	DEOGAON	Gaddwar	Gaddwar Stone Quarry 0.526 Hects	20˚ 31' 07.39" N to 20˚ 31' 09.27" N To 83˚ 23′ 33.97″ E to 83˚ 23′ 36.31″ E Khata No-41 Plot No-138/671 Kissam-Pathar Chatan	5260	3	13550	1500	7	6	44 Krupasindhu Dam	9 Sukteli River	NA	1 Gaddwar	1 Gaddwar	8	1 Village Temple	NA	16 NH-26	3 SH-42	1	12 E/C Railway line	NA	84 Sunabeda Santuary	2	84	Yes	Approved for road metal
34	DEOGAON	Gudkhapala	Gudkhapala Stone Quarry 1.267Hects	20˚ 32' 48.97" N to 20˚ 32' 58.79" N To 83˚ 32′ 27.35″ E to 83˚ 32′ 39.92″ E Khata No-181 Plot No-586, 588, 619, 789 Kissam-pathar Chatan	12670	1	27432	750	18	12	62 Krupasindhu Dam	18 Teli River	NA	1 Gudkhapala	1 Gudkhapala	8	1 Village Temple	NA	18 NH-26	4 SH-42	1	18 E/C Railway line	NA	86 Sunabeda Santuary	8	86	Yes	Approved for road metal
35	DEOGAON	Ghatuld	Ghatuldunguri	20˚ 34' 11.57" N	16260	4	60345	16	2	2	53	5 S	NA	1	1	12	1 Vill	NA	38	8	2	24	NA	68	8	68	Yes	Approved for

		ung uri	Stone Quarry 1.626 Hects	to 20° 34' 16.52" N To 83° 14′ 53.04″ E to 83° 14′ 58.76″ E Khata No- 46 Plot No- 132 Kissam- Dunguri				0 0			Kr upasi ndhu Da m	o ngad Ri ver		G hatul dung uri	G hatul dung uri		age Te mple		NH - 26	SH - 42		E/ C Rail way line		Sun abed a San tuar y	Os tali RF			road metal
36	DEOG AON	Sirab ahal	Sirabahal Stone Quarry 5.000 Hects	20° 33' 32.30" N to 20° 33' 41.80" N To 83° 26′ 20.00″ E to 83° 26′ 32.80″ E Khata No- 77 Plot No- 748 Kissam- Dunguri	500 00	1 0	137 280	2 3 0 0	3	2	48 Kr upasi ndhu Da m	4	NA	1 Si rab ahal	1 Sir ab ah al	9	1 Vill age Te mple	NA	4 NH - 26	2 SH - 42	1	8 E/ C Rail way line	NA	84 Sun abed a San tuar y	5	84	Y es	Approv ed for road metal
37	KANT ABAN JI	Sima nab ahal	Simanabahal Stone Quarry-2 1.072 Hects	20° 25' 10.16" N to 20° 25' 18.12" N To 82° 58′ 35.11″ E to 82° 58′ 42.18″ E Khata	107 20	7	822 15	1 7 0 8	2 . 5	2	59 Pe ndra wan Da m	3 Te lia Jo hr	NA	1 Si mn aba hal	1. 5 Si mn aba hal sc	10 Kant abanji	1 Vill age te mple	NA	1 5 NH - 59	2 SH - 42	50 0m tr	10 0 m tr E/ C Rail way	NA	65 Sun abed a	3 Kh uje n RF	65	Y es	Approv ed for Stone

				No- 49 Plot No-770										hool						line						
38	KANTABANJI	Mahakhand	Mahakhand Stone Quarry –I 1.958 Hects	N20° 22' 36.0" to N20° 22' 39.9" E82° 47' 41.3" to E82° 47' 41.8" Khata No-111, PLOT No-1524	19500	6	131413	4018	1	1	63 Pendraw and Dam	1 Arjun	NA	1 Mahakhand	1.5 Mahakhand	12 Kantabanji	1 Village temple	NA	15 NH-59	12 SH	500mtr	15 E/C Railway line	NA	72 Sunabeda	1 Chhatradandi RF	72	Yes	Approved for Stone
39	KANTABANJI	Chatuanaka	Chatuanaka Stone Quarry No-1 2.638 Hects	N20° 28' 46.88" to N20° 28' 52.27"N E82° 55' 53.08" to E82° 55' 59.63"E Khata No- 153 Plot No-1046/P	26380	5	138960	1872	1	2	74 Pendraw and Dam	4 Arjun	NA	1 Chatuanka	1 Chatuanka	14 Kantabanji	18 "64" yogini and visnu Temple	NA	12 NH-59	18 SH	800mtr	8 E/C Railway line	NA	78 Sunabeda	6 RF	78	Yes	Approved for Stone
40	KANTABANJI	Dhumsu	Dhumsu Stone Quarry –I 2.152 Hects	N20° 27' 33.3" to N20° 27'37.9" E82° 57'06.5" to E82° 57'08.8" Khata No- 43 Plot No-333/P,	21520	6	213336	2088	2	4	71 Pendraw and Dam	9 Arjun	NA	2 Dhumsu	1.5 Dhumsu	9 Kantabanji	24 "64" yogini and visnu Te	NA	14 NH-59	25 SH	1	18 E/c Railway line	NA	73 Sunabeda	7 RF	73	Yes	Approved for Stone

				Kissam-Patharchatan.												mple											
41	KANTABANJI	Dhumsu	Dhumsu Stone Quarry –II 2.145 Hects	N20° 27' 36.0" to E20° 27' 31.1" E82° 57' 06.5" to E82° 57' 10.8" Khata No-43, Plot No-333, Kissam-Patharchatan.	21450	6	180176	2133	2	4	71 Pendraw and Dam	9 Arjun	NA	2 Dhumsu	2 Dhumsu	9 Kantabanji	24 "64" yogini and visnu Temple	NA	14 NH-59	25 SH	1	19 E/c Railway line	NA	75 Sunabeda	8 RF	75	Yes	Approved for Stone
42	KANTABANJI	Chatuanaka	Chatuanaka Stone Quarry No-II 2.509 Hects	20˚ 28' 25.15" N to 20˚ 28' 29.13" N To 82˚ 56' 08.13" E to 82˚ 56' 12.25''E Khata No- 153 Plot No-1173	25090	5	279967	1575	1	2	74 Pendraw and Dam	4 Arjun	NA	1 Chatuanka	1 Chatuanka	14 Kantabanji	18 "64" yogini and visnu Temple	NA	12 NH-59	18 SH	800mtr	8 E/C Railway line	NA	78 Sunabeda	6 RF	78	Yes	Approved for Stone
43	KHAPRAKHOL	Chitkimal	Black Stone Chitkimal Stone Quarry 0.267 Hects	N20° 47' 15" to N20° 47' 17" E83° 02' 12" to E83° 02' 16" Khata No-44 Plot No-112	2670	2	49335	2963	1	4.5	45	7	NA	800mtr	1 KM	5 KM	10 HARISHANKAR TEMPLE	NA	1 NH-	34 SH-1	800mtr Kaithapali	12	NA	45	4	3	Yes	Approved for road metal

44	LOISINGHA	Uchhabapali	Black Stone Uchhabapali Stone Quarry No-1 4.65 Hects.	20˚ 50' 55.80" N to 20˚ 51' 03.90" N Longitude: 83˚ 20' 37.34˝ E to 83˚ 20΄ 44.69˝ E Khata No- 34 Plot No-597/P, Kissam-Pahada	46500	5	148906	7000	2	5	6.5 Manhira Dam	7 Ong River	NA	1	1.5	6 Loisingha College	2 Sapneswar Temple, Sujia	NA	20 NH-57	5 SH-26	500 mtr	12 East coast Railway line	NA	100 Debrigarh Santuary, Sambalpur	6	10	10	Yes	Approved for road metal
45	LOISINGHA	Uchhabapali	Black Stone Uchhabapali Stone Quarry No-2 4.653Hects	20˚ 50' 57.21" N to 20˚ 51' 05.60" N To 83˚ 20' 27.78˝ E to 83˚ 20΄ 36.77˝ E Khata No- 34 Plot No-597/P, Kissam-Pahada	46500	5	514395	7000	2	5	6.5 Manhira Dam	7 Ong River	NA	1	1.5	6 Loisingha College	2 Sapneswar Temple, Sujia	NA	20 NH-57	5 SH-26	500 mtr	12 East coast Railway line	NA	100 Debrigarh Santuary, Sambalpur	6	10	10	Yes	Approved for road metal
46	LOISINGHA	Uchhabapali	Black Stone Uchhabapali Stone Quarry No-3 3.15	20˚ 50' 49.48" N to 20˚ 50' 56.85" N To 83˚ 20' 56.99˝ E to 83˚	31500	5	293112	7000	2	5	6.5 Manhira Dam	7 Ong River	NA	1	1.5	6 Loisingha College	2 Sapneswar Temple, Suji	NA	20 NH-57	5 SH-26	500 mtr	12 East coast Railway	NA	100 Debrigarh Santuary, Sambal	6	10	10	Yes	Approved for road metal

			Hects	21´ 02.42˝ E Khata No-34 Plot No-640/P Kissam-Pahada												a					line		pur				
47	LOISINGHA	Uchhabapali	Black Stone Uchhabapali Stone Quarry No-4 4.330 Hects	20˚ 50' 46.42" N to 20˚ 50' 56.88" N To 83˚ 21' 04.19˝ E to 83˚ 21´ 13.20˝ E " Khata No-34 Plot No-639 & 640/P, Kissam-Pahada	43300	4	391230	7000	2	5	6.5 Manhira Dam	6.5 Ong River	NA	1	1.5	6 Loisingha College	2 Sapneswar Temple, Sujia	NA	22 NH-57	5 SH-26	600 mtr	12 East coast Railway line	NA	100 Debrigarh Santuary, Sambalpur	6	100	Yes	Approved for road metal
48	LOISINGHA	Uchhabapali	Black Stone Uchhabapali Stone Quarry No-5 3.09 Hects	20˚ 50' 49.99" N to 20˚ 50' 56.93" N To 83˚ 20' 44.91˝ E to 83˚ 20´ 50.50˝ E Khata No-34 Plot No-597/P, Kissam-	30900	5	347976	7000	2.5	5	6.5 Manhira Dam	6.5 Ong River	NA	1	1.5	6 Loisingha College	2 Sapneswar Temple, Sujia	NA	22 NH-57	5 SH-26	750 mtr	12 East coast Railway line	NA	100 Debrigarh Santuary, Sambalpur	6	100	Yes	Approved for road metal

				Pahada																							
49	LOISINGHA	Uchhabapali	Black Stone Uchhabapali Stone Quarry No-6 3.035 Hects	20˚ 50' 49.71" N to 20˚ 50' 57.85" N To 83˚ 21' 02.06˝ E to 83˚ 21´ 08.205˝ E Khata No-34, Plot No-640/P Kissam-Pahada	30350	5	60858	7000	2	5	6.5 Manhira Dam	6.5 Ong River	NA	1	1.5	6 Loisingha College	2 Sapneswar Temple, Sujia	NA	22 NH-57	5 SH-26	600 mtr	12 East coast Railway line	NA	100 Debrigarh Santuary, Sambalpur	6	100	Yes	Approved for road metal
50	LOISINGHA	Uchhabapali	Black Stone Uchhabapali Stone Quarry No-7 3.035 Hects	20˚ 50' 51.05" N to 20˚ 50' 56.93" N To 83˚ 20' 50.44˝ E to 83˚ 20´ 57.42˝ E Khata No-34 Plot No-597/P & 640/P Kissam-Pahada	30350	5	157626	7000	2	5	6.5 Manhira Dam	7 Ong River	NA	1	1.5	6 Loisingha College	2 Sapneswar Temple, Sujia	NA	20 NH-57	5 SH-26	500 mtr	12 East coast Railway line	NA	100 Debrigarh Santuary, Sambalpur	6	100	Yes	Approved for road metal
51	LOISINGHA	Uchhabapal	Black Stone	20˚ 50' 46.42" N to 20˚	27190	5	212553	700	2	5	6.5 M	7 On	NA	1	1.5	6 Loisin	2 Sapn	NA	20	5 S	500 mtr	12 Ea	NA	100 Deb	6	100	Yes	Approved for road

		i	Uchhabapali Stone Quarry No-8 2.719 Hects	50' 54.91" N Longitude: 83° 21' 12.82˝ E to 83° 21′ 17.79˝ E Khata No-34 Plot No-751/P Kissam-Pahada				0			anhira Dam	g River				gha College	eswar Temple, Sujia		NH-57	H-26		st coast Railway line		rigarh Santuary, Sambalpur				metal
52	LOISINGHA	Uchhabapali	Black Stone Uchhabapali Stone Quarry No-9 2.266 Hects	20° 50' 17.49" N to 20° 50' 22.47" N To 83° 20' 39.71˝ E to 83° 20′ 48.23˝ E Khata No-34 Plot No-714 Kissam-Pahada	22660	4	150822	4500	2	5	7 Manhira Dam	7 Ong River	NA	1	1.5	6 Loisingha College	2 Sapneswar Temple, Sujia	NA	20 NH-57	5 SH-26	500 mtr	12 East coast Railway line	NA	100 Debrigarh Santuary, Sambalpur	6	100	Yes	Approved for road metal
53	LOISINGHA	Barkani	Black Stone Barkani Stone Quarry 4.856 Hects	20° 51' 11. 06" N to 20° 51' 16.98" N Longitude: 83° 19′ 30.15˝ E to 83° 19′	48560	4	430809	2065	8	6	6.5 Manhira Dam	7 Ong River	NA	1	1.5	6 Loisingha College	2 Sapneswar Temple, Sujia	NA	20 NH-57	5 SH-26	500 mtr	12 East coast Railway line	NA	100 Debrigarh Santuary, Sambalpur	6	100	Yes	Approved for road metal

				44.43″ E Khata No-30 Plot No-1/P Kissam-Patharchatan																								
54	LOISINGHA	Babja	Black Stone Babja Stone Quarry 3.350 Hects	20˚ 50' 47. 19" N to 20˚ 50' 54.12" N To 83˚ 21′ 19.20″ E to 83˚ 21′ 12.78″ E Khata No- 89 Plot No-632,802, 805,806 &810 Kissam-Patharchatan	33500	5	181044	2079	2	8	6.5 Manhira Dam	7 Ong River	NA	1	1.5	6 Loisingha College	2 Sapneswar Temple, Sujia	NA	20 NH-57	5 SH-26	500 mtr	12 East coast Railway line	NA	100 Debrigarh Santuary, Sambalpur	6	100	Yes	Approved for road metal
55	LOISINGHA	Banjipali	Black Stone Banjipali Stone Qurry 0.745 Hects	20˚ 52' 43.44" N to 20˚ 52' 48.29" N Longitude: 83˚ 29′ 57.28″ E to 83˚ 30′ 02.40″ E Khata	7440	5	25998	3065	4	5	6.5 Manhira Dam	7 Ong River	NA	1	1.5	6 Loisingha College	2 Sapneswar Temple, Sujia	NA	20 NH-57	5 SH-26	500 mtr	12 East coast Railway line	NA	100 Debrigarh Santuary, Sambalpur	6	100	Yes	Approved for road metal

				No-120, Plot No-91 Kissam-Patharchatan																							
56	LOISINGHA	Taliudar	Black Stone Taliudar Stone quarry 1.000 Hects	20˚ 49' 18.64" N to 20˚ 49' 16.34" N To 83˚ 22′ 55.20″ E to 83˚ 23′ 02.00″ E Khata No- 309 Plot No-1879, 1786 & 1790 Kissam-Patharachatan	10000	5	29363	1950	2	10	6.5 Manhira Dam	7 Ong River	NA	1	1.5	6 Loisingha College	2 Sapneswar Temple, Sujia	NA	20 NH-57	5 SH-26	500 mtr	12 East coast Railway line	NA	100 Debrigarh Santuary, Sambalpur	6	100	Yes	Approved for road metal
57	LOISINGHA	Dumdumi	Black Stone Dumdumi Stone Quarry No-1 2.428 Hects	20˚ 52' 28.65" N to 20˚ 52' 35.26" N To 83˚ 29′ 37.46″ E to 83˚ 29′ 33.24″ E Khata No- 163 Plot No-851/A Kissam-Patharа	24280	5	235806	3029	5	5	6.5 Manhira Dam	7 Ong River	NA	1	1.5	6 Loisingha College	2 Sapneswar Temple, Sujia	NA	20 NH-57	5 SH-26	500 mtr	15 East coast Railway line	NA	100 Debrigarh Santuary, Sambalpur	6	100	Yes	Approved for road metal

				chatan																								
58	LOISINGHA	Pandarani	Black Stone Pandarani Stone Quarry No-1 4.046 Hects	20° 52' 49.74" N to 20° 52' 59.42" N Longitude: 83° 26′ 42.589″ E to 83° 26′ 50.78″ E Khata No-285 Plot No-589 Kissam-Patharachatan	40460	4	301664	2620	2	5	6.5 Manhira Dam	7 Ong River	NA	1	1.5	6 Loisingha College	2 Sapneswar Temple, Sujia	NA	20 NH-57	5 SH-26	500 mtr	12 East coast Railway line	NA	100 Debrigarh Santuary, Sambalpur	6	100	Yes	Approved for road metal
59	LOISINGHA	Thakurpali	Black Stone Thakurpali Stone Quarry 2.205Hects	20° 49' 51.44" N to 20° 49' 59.15" N To 83° 22′ 01.59″ E to 83° 22′ 02.45″ E Khata No-44, PLOT No-477&479 Kissam-Patharchatan	22050	5	156019	3748	2	5	6.5 Manhira Dam	7 Ong River	NA	1	1.5	6 Loisingha College	2 Sapneswar Temple, Sujia	NA	20 NH-57	5 SH-26	500 mtr	12 East coast Railway line	NA	100 Debrigarh Santuary, Sambalpur	6	100	Yes	Approved for road metal
60	LOISINGHA	Uparudar	Black Stone Uparudar Stone	20° 49' 50. 61" N to 20° 52' 48.29" N	28320	5	253300	2740	6	5	6.5 Manhira	9 Ong R	NA	1	1.5	6 Loisingha College	2 Sapneswar	NA	20 NH-	5 SH-2	500 mtr	12 East coas	NA	100 Debrigarh Sant	10	100	Yes	Approved for road metal

			Quarry 2.832 Hects	To 83° 22′ 1.59″ E to 83° 22′ 6.71″ E Khata No-114 Plot No-32/P Kissam-Patharachatan							Dam	iver					Temple, Sujia		57	6		t Railway line		uary, Sambalpur					
61	LOISINGHA	Dumdumi	Black Stone Dumdumi Stone Quarry 0.829 Hects	20 52'01.1" N,20 52'60.30 "N & 83 29' 14.2"E,83 29'17.6" E Khata No-163, Plot No-1196	8290	5	24870	1500	5	5	6.5 Manhira Dam	7 Ong River	NA	1	1.5	6 Loisingha College	2 Sapneswar Temple, Sujia	NA	20 NH-57	5 SH-26	500 mtr	15 East coast Railway line	NA	100 Debrigarh Santuary, Sambalpur	6	100	Yes	Approved for road metal
62	LOISINGHA	Dumdumi	Black Stone Dumdumi Stone Quarry-B 2.428 Hects	20 52'31.2" N,20 52'36.30 "N & 83 29' 31.7"E,83 29'39.8" E Khata No-163, Plot No-851/B	24280	5	14568	1500	5	5	6.5 Manhira Dam	7 Ong River	NA	1	1.5	6 Loisingha College	2 Sapneswar Temple, Sujia	NA	20 NH-57	5 SH-26	500 mtr	15 East coast Railway line	NA	100 Debrigarh Santuary, Sambalpur	6	100	Yes	Approved for road metal

63	LOISINGHA	Jharmunda	Black Stone Jharmunda Stone Quarry 0.226 Hects	20 52'23.6" N,20 52'25.6" N & 83 24' 07.3"E,83 24'09.9" E Khata No-308, Plot No-944	2260	5	6780	1000	7	5	6.5 Manhira Dam	5 Ong River	NA	1	5	6 Loisingha College	2 Sapneswar Temple, Sujia	NA	20 NH-57	5 SH-26	500 mtr	15 East coast Railway line	NA	100 Debrigarh Santuary, Sambalpur	10	100	Yes	Approved for road metal
64	LOISINGHA	Kutenpali	Black Stone Kutenpali Stone Quarry 0.404 Hects	20 53'05.6" N,20 53'08.6" N & 83 28' 12.8"E,83 28'17.2" E Khata No-102, Plot No-52	4040	5	12120	1000	7	5	12 Manhira Dam	5 Ong River	NA	1	5	6 Loisingha College	2 Sapneswar Temple, Sujia	NA	20 NH-57	5 SH-26	500 mtr	15 East coast Railway line	NA	100 Debrigarh Santuary, Sambalpur	20	100	Yes	Approved for road metal
65	LOISINGHA	Luchkibahal	Black Stone Luchkibahal Stone Quarry 0.517 Hects	20 52'22.7" N,20 52'24.3" N & 83 24' 03.7"E,83 24'07.8" E Khata	5170	5	15510	1000	5	5	6.5 Manhira Dam	5 Ong River	NA	1	5	6 Loisingha College	5 Sapneswar Temple, Sujia	NA	22 NH-57	5 SH-26	500 mtr	15 East coast Railway line	NA	100 Debrigarh Santuary, Sambalpur	10	100	Yes	Approved for road metal

				No-128, Plot No-291 & 293																								
66	MURIBAHAL	Hadhada	Hadhada Stone Qyaarry 0.809Hects	20° 21' 42.37" N to 20° 21'48.23" N To 83° 59′ 54.11″ E to 82° 59′ 59.15″ E Khata No- 37 Plot No-177 Kissam-Patharchatan	8090	4	4630	1782	1	5	60	5	NA	1	1.5	5	6 Temple	NA	30 NH	5 SH	1	5 East coast Railway line	NA	60	5	60	Yes	Approved for road metal
67	MURIBAHAL	Andaldarah	Andaldarah Stone Quarry 0.809Hects	20° 29' 20.12" N to 20° 29'25.36" N to 83° 01′ 40.16″ E to 83° 01′ 46.43″ E Khata No- 71 Plot No-932 Kissam-Patharchatan	8090	3	52668	3600	2	5	65	4	NA	1	2	10	5 Temple	NA	35 NH	6 SH	2	15 East coast Railway line	NA	70	5	70	Yes	Approved for road metal
68	PATNAGARH	Gohirammund	(BLACK STONE) Guhuriam	N 20 40' 37.64" to 20 40'	12140	3	44489 Cu	220	1 K	2 KM	40 KM	NA	NA	2	2.5	2.0	2.3	NA	40	6	500mtr	40	1	Sunabed	5	8	NA	Approved for road

		a	unda Stone Quarry-A 1.214 Hects	42.22"N E 83 04' 29.38" to 83 04' 39.64"E Khata No-68,Plot No- 13 Kissam-Pathar Chatan			m	0 Cum	M															a wild life santuary				metal
69	PATNAGARH	Gohiramunda	(BLACK STONE) Guhuriamunda Stone Quarry-B 2.023 Hects	N 20 40' 29.68" to 20 40' 33.54"N E 83 04' 20.56" to 83 04' 28.83"E Khata No-68,Plot No- 13 Kissam-Pathar Chatan	20230	5	115427 Cum	6399 Cum	1 KM	2 KM	40 KM	NA	NA	2	1.9	1.6	2.0	NA	42	8	500mtr	41	1	Sunabeda wild life santuary	6	10	NA	Approved for road metal
70	PATNAGARH	Mundamahul	(BLACK STONE) Munda Mahul Stone Quarry-A 2.023 Hects	N 20 40' 37.64" to 20 40' 42.22"N E 83 04' 29.38" to 83 04' 39.64"E Khata No-99,Plot No-289/1 Kissam-Pathar Chatan	20230	4	163179 Cum	3330 Cum	1 KM	2 KM	40 KM	NA	NA	2	2.3	2.8	2.3	NA	41	7	500mtr	42	1	Sunabeda wild life santuary	6	7	NA	Approved for road metal
71	PATNAGAR	Ghasian	(BLACK STONE)	20° 48' 56.16" N	9670	3	23400	15	1	2 K	40 K	NA	NA	2	2	2.5	1.8	NA	40	6	500	40	1	Sunab	5.	7	NA	Approved for

	H		Ghasian Stone Quarry 0.967 Hects	to 20° 48'59.44" N to 83° 09′ 46.19″ E to 83° 09′ 49.48″ E Khata No-228,Plot No- 1276 & 1278 Kissam-Pathar Chatan			Cum	12Cum	KM	M	M										mtr			eda wildlife santuary	5			road metal
72	PATNAGARH	Jhulenbar	(BLACK STONE) Jhulenbar Stone Quarry 0.906 Hects	20° 44' 35.6" N to 20° 44'37.4" N to 83° 04′ 57.7″ E to 83° 04′ 59.6″ E Khata No-228,Plot No- 1276 & 1278 Kissam-Pathar Chatan	9060	4	40590 Cum	2203Cum	1KM	2KM	40KM	NA	NA	2	2.8	3	2.2	NA	41	7	500mtr	40	1	Sunabeda wildlife santuary	6	9	NA	Approved for road metal
73	PUINTALA	Mahadevpali	Mahadevpali Stone Quarry . Area 0.809 Hects	20° 38' 02.50" N to 20° 38' 05.77" N To 83° 32′	8090	4	29025	250	6	6	46 Krupasindhuda	2 Ong River	NA	1 Mahadev	1.5 upschool	8	1.5 Dadhibaman Temple	NA	10 NH-55	2 SH-55	1	53 E/C Railway	NA	84 Debrigarh	2	84	Yes	Approved for Stone

				31.63″ E to 83° 32′ 34.59″ E Khata No- 60 Plot No- 135 Kissam- Pathrchatan							m	r		pali									line						
74	PUINTALA	Duhel	Duhel Stone Quarry Area 2.02 Hects	20° 35' 04.5" N to 20° 35' 10.1" N To 83° 35′ 32.1″ E to 83° 35′ 38.9″ E Khata No- 105 Plot No- 625 Kissam- Patharbani	20200	1	41659	1400	14	10	10 Krupasindhudam	12 Tel River	NA	1 Duhel	1.5 upschool	12	1 Mahesawari Temple	NA	10 NH-57	10 SH-55	1	12 E/C Railway line	NA	60 Debrigarh	2	60	Yes	Approved for Stone
75	PUINTALA	Badburkabahal	Badaburkabahal Stone Quarry Area 2.023 Hects	20° 37' 34.40" N to 20° 37' 41.43" N To 83° 36′ 52.11″ E to 83° 36′ 55.33.0″ E	20230	3	266480	1750	8	7	25 Krupasindhudam	16 Tel River	NA	1 Badaburkhaba	1.5 upschool	9	1 Village Temple	NA	14 NH-57	8 SH-55	1	16 E/C Railway line	NA	64 Debrigarh	2	64	Yes	Approved for Stone

				Khata No- 77 Plot No- 628, Kissam- parbat										hyal														
76	PUINTALA	Patharla	Patharla Stone Quarry Area 2.02 Hects	20° 38' 43.4" N to 20° 38' 50.4" N To 83° 36′ 41.8″ E to 83° 36′ 46.7″ E Khata No- 108 Plot No- 766/B, Kissam- Dunguri	20200	3	124664	2200	8	12	38 Krupasindhudam	18	NA	1.5 Patharla	1.5 upschool	11	1 Village Temple	NA	16 NH-57	45 SH-55	1	24 E/C Railway line	NA	64 Debrigarh	2	64	Yes	Approved for Stone
77	PUINTALA	Kulerbahali	Kulerbahali Stone Quarry Area 0.433 Hects	20° 43' 40.8" N to 20° 43' 44.5" N To 83° 32′ 49.1″ E to 83° 32′ 51.5″ E Khata No- 84 Plot No- 292 Kissam- Patharchatan	4330	5	15552	250	4	6	44 Krupasindhudam	12	NA	1.5 Kulerbahali	2 upschool	9	1 Village Temple	NA	24 NH-57	85 SH-55	1	21 E/C Railway line	NA	71 Debrigarh	2	71	Yes	Approved for Stone
78	PUINTALA	Kuntenp	Kuntenpali Stone	20° 37'	20710	5	88716	50	9	8	35	11	NA	1K	2	7	1 Vill	NA	18	6	1	19	NA	63	2	63	Yes	Approved for

		ali	Quarry Area 2.02 Hects	49.36" N to 20° 37' 56.6" N To 83° 34′ 58.11″ E to 83° 35′ 01.23″ E Khata No- 126 Plot No- 574 Kissam- Patharbani				00			Krupasindhudam			utenpali	upschool		age Temple		NH-57	SH-55		E/C Railwayline		Debrigarh				Stone
79	PUINTALA	Kureibahana	Kureibahana Stone Quarry Area- 2.66 Hects	20° 42' 5.0" N to 20° 42' 5.8" N To 83° 34′ 43.3″ E to 83° 34′ 43.7″ E Khata No- 66 Plot No- 603,622 Kissam- Patharchatan	26600	6	121124	1530	14	12	31 Krupasindhudam	14	NA	2 Kureibahana	2 upschool	6	1 Village Temple	NA	18 NH-57	55 SH-55	1	23 E/C Railwayline	NA	59 Debrigarh	2	59	Yes	Approved for Stone
80	SAINTALA	Manamunda	Black stone Manamunda Stone Quarry	20° 30' 29.4″N to 20° 30' 27.45" N To 83° 23′ 30.8″	37700	4	136451	1294	2	3	35	6	NA	1	2	7 Saintala College	6 Shiv temple	NA	4.5 NH-57	1.4	2	7	500 mtr	75	12	75	Yes	Approved for road metal

			3.770 Hects	E to 83° 23′ 26.34″ E Khata No- 24 Plot No- 128,136/ 257, Kissam- Pathar Chatan																								
81	SAINT ALA	Kandhakalegaon	Kandhakalegaon Stone Quarry 1.690 Hects	20° 29' 32" N to 20° 29' 36" N To 83° 24′ 41″ E to 83° 24′ 45″ E Khata No- 159 Plot No- 714,776, 795, Kissam- Pathar Chatan	16900	4	79875	1500	3	3	40	6	NA	1	2	7 Saintala College	6 Shiv temple	NA	4.5 NH-57	1.4	2	7	800 mtr	70	12	70	Yes	Approved for road metal
82	SAINT ALA	Dangarpada	Dangarpada Stone Quarry 1.420 Hect	N 20 29' 58.72"to 20 30' 03.27"N to E83 25' 18.57" to 83 25' 26.10"E Khata No- 20 Plot No- 20 &25, Kissam- Patharchatan	14200	4	58050	1680	4	2	35	5	NA	1	2	7 Saintala College	6 Shiv temple	NA	4 NH-57	1.4	2	7	800 mtr	70	10	70	Yes	Approved for road metal
83	SAINT ALA	Dungrip	Dunguripali Stone	N 20 24' 02.41"to	16020	5	61776	10	4	3	25	6	NA	1	2	7	6	NA	4.5	1.	2	7	800	60	12	60	Yes	Approved for

		ali	Quarry 1.602 Hects	20 24' 10.77"N E83 23' 32.13" to 83 23' 41.76"E Khata No- 70 Plot No- 513, Kissam- Pathark handi				25								Saintala College	Shiv temple		NH-57	4			mtr					road metal
84	TITLAGARH	Burdipada	Burdipada-A Stone Quarry 1.618Hects	20° 17' 44.1" N to 20° 17' 49.7" N To 83° 11´ 04.7˝ E to 83° 11´ 08.4˝ E Khata No- 189 Plot No- 1226, Kissam- Patharachatan	16180	5	151200	3000	2.5	2	45	15	NA	0.9	1	15	5	NA	10	10	1	6	NA	65	12	45	Yes	Approved for Road Metal
85	TITLAGARH	Burdipada	Burdipada-B Stone Quarry 1.618Hects	20° 17' 45.3" N to 20° 17' 47.8" N To 83° 11´ 07.9˝ E to 83° 11´ 16.5˝ E Khata No- 189 Plot No-	16180	5	172854	3000	2.5	2	45	15	NA	0.9	1	15	5	NA	10	10	1	6	NA	65	12	45	Yes	Approved for Road Metal

				1226 Kissam-Patharchatan.																								
86	TITLA GARH	Burdipada	Burdipada-C Stone Quarry 1.618Hects	20° 17' 48.2" N to 20° 17' 55.2" N To 83° 11′ 04.4″ E to 83° 11′ 11.0″ E Khata No-189 Plot No-1226 , Kissam-Patharachatan	16180	5	271800	4000	2.5	2	45	15	NA	0.9	1	15	5	NA	10	10	1	6	NA	65	12	45	Yes	Approved for Road Metal
87	TITLA GARH	Desil	Desil- A Stone Quarry 1.214Hects	20° 16' 09.1" N to 20° 16' 13.6" N To 83° 10′ 35.9″ E to 83° 10′ 42.3″ E Khata No-178 Plot No-940 /P Dunguri	12140	4	42223	2000	2	3	70	12	NA	1.5	1.2	15	10	NA	15	5	2	10	NA	60	10	50	Yes	Approved for Road Metal
88	TITLA GARH	Desil	Desil- B Stone Quarry 1.214Hects	20° 16' 07.5" N to 20° 16' 12.8" N To 83° 10′ 36.7″ E to 83° 10′ 42.0″	12140	4	46990	2000	2	3	70	12	NA	1.5	1.2	15	10	NA	15	5	2	10	NA	60	10	50	Yes	Approved for Road Metal

				E Khata No- 178 Plot No- 940/P Kissam- Dunguri																							
89	TITLA GARH	Desil	Desil- C Stone Quarry 1.214Hects	20˚ 16' 15.4" N to 20˚ 16' 20.9" N To 83˚ 10′ 41.2″ E to 83˚ 10′ 46.8″ E Khata No-178 Plot No- 940/P Kissam- Dunguri	12140	4	92070	1200	2	3	70	12	NA	1.5	1.2	15	10	NA	15	5	2	10	NA	60	10	50	Yes	Approved for Road Metal
90	TITLA GARH	Desil	Desil- D Stone Quarry 1.214Hects	20˚ 16' 11.2" N to 20˚ 16' 17.4" N To 83˚ 10′ 44.1″ E to 83˚ 10′ 49.2″ E Khata No- 178 Plot No- 940 /P Kissam- Dunguri	12140	4	52123	2000	2	3	70	12	NA	1.5	1.2	15	10	NA	15	5	2	10	NA	60	10	50	Yes	Approved for Road Metal
91	TITLA GARH	Nimurla	Nimurla-II Stone Quarry 0.404 Hects	20˚ 10' 43.32" N to 20˚ 10' 45.56" N To 82˚	36995	4	22800	2000	4	2	55	19	NA	2	1.5	10	10	NA	25	10	5	20	NA	55	15	30	Yes	Approved for Road Metal

				59′ 23.85″ E to 82° 59′ 25.72″ E Khata No- 144 Plot No- 1398/A Kissam- Dunguri																								
92	TITLA GARH	Nim urla	Nimurla-III Stone Quarry 0.405 Hects	20° 10' 33.2" N to 20° 10' 35.6" N To 82° 58′ 45.6″ E to 82° 58′ 49.2″ E Khata No- 144 Plot No- 1292 Kissam - Dunguri	405 0	6	209 61	2 0 0 0	2	3	50	2 0	NA	2	1. 5	10	10	N A	2 5	1 0	5	20	N A	55	1 5	30	Ye s	Approve d for Road Metal
93	TITLA GARH	Sihini	Sihini Stone Quarry 1.214 Hects	20° 15' 45.1" N to 20° 15' 49.4" N To 83° 08′ 09.2″ E to 83° 08′ 13.7″ E Khata No-233 Plot No- 108, Kissam- Pathar Chatan	121 30	5	114 048	2 0 0 0	1 . 6	5	60	1 5	NA	3	2. 5	10	10	N A	3 0	1 2	6	35	N A	62	1 8	35	Ye s	Approve d for Road Metal
94	TITLA	Turla	Turla	20° 15'	161	5	103	2	3	6	65	2	NA	2	4	10	10	N	2	2	10	50	N	75	1	30	Ye	Approve

	GARH		Stone Quarry 1.618 Hects	44.0" N to 20° 15' 47.3" N To 83° 07′ 58.4″ E to 83° 08′ 05.2″ E Khata No- 196 Plot No- 1031/P Kissam- Dunguri	80		446	000				3						A	5	0			A		5		s	d for Road Metal
95	TITLA GARH	Dumdumi	Dumdumi Stone Quarry 1.012Hects	N20 20' 50.77", 20 20' 52.70"N E83 11' 23.20", 83 11' 25.83"E Khata No- 40 Plot No- 62A & 172A Kissam- Pahada	143640	4	82835	2000	3	6	65	33	NA	1	10	10	15	NA	25	20	10	50	NA	75	15	30	Yes	Approved for Road Metal
96	TITLA GARH	Junapada	Junapada Stone Quarry 0.809 Hects	N20 15' 08.9", 20 15' 9.2"N E83 05' 16.3", 83 05' 16.8"E Khata No- 24 Plot No- 1 Kissam-	8090	4	19416	1500	4	5	65	25	NA	1	10	15	20	NA	20	20	10	50	NA	75	15	45	Yes	Approved for Road Metal
97	TITLA GARH	Kumuda	Kumuda Stone	20° 16'15.1"	14160	5	110808	50	1	5	50	35	NA	1	4	45	20	NA	20	20	10	45	NA	75	15	45	Yes	Approved for

			Quarry 1.416Hects	N to 20˚ 16'10.49" N 83˚ 09′ 57.08″ E to 83˚ 09′ 52.20″ E Khata No-170 Plot No-884 Kissam-Dunguri				00																					Road Metal
98	TITLA GARH	Kotmara	Kotmara Stone Quarry-II 0.607 Hects.	N20 11' 56.3", 20 11' 59.9"N E82 56' 27.1", 82 56' 29.."E Khata No- 108 Plot No-487	6070	5	36420	1500	1	5	50	35	NA	1	4	45	20	NA	20	20	10	45	NA	75	15	45	Yes	Approved for Road Metal
99	TITLA GARH	Nirmula	Nirmula Stone Quarry-I 0.809 Hects	Khata-No Plot- No	8090	5	36420	1500	1	5	50	35	NA	1	4	45	20	NA	20	20	10	45	NA	75	15	45	Yes	Approved for Road Metal
100	TITLA GARH	Siker	Siker Stone Quarry 1.618 Hects	Khata-No Plot- No	16180	5	36420	1500	1	5	50	35	NA	1	4	45	20	NA	20	20	10	45	NA	75	15	45	Yes	Approved for Road Metal
101	TUSRA	Kukedmal	Black stone Kukedmal Stone Quarry	20˚ 26' 0.09" N to 20˚ 26′ 5.9" N To 83˚ 26′ 36.7″	38200	5	234236	1600	1	5	40 Sukte l Dam	6	NA	900mtr	1.5	5 Tusura College	2	NA	20 NH	5 SH	500 mtr	10 East coast Ra	NA	100 Sunabeda Santuary	4	100	Yes	Approved for road metal

			3.820Hect	E to 82° 26′ 43.4″ E Khata No- 84 Plot No-132 & 133 Kissam - Dunguri																	ilway line						
102	BELPARA	Bhuliabandh	Black Stone-Bhuliabandha Stone Quarry 2.023 Hects	N20° 36' 16.9" to N20° 36' 25.8" E83° 04' 22.5" to E83° 04' 30.1" Khata No-53, PLOT No-07 Kissam - Dunguri	20230	1	178830	3870	1	5	50	35	NA	1	4	8 km DAV College	20	NA	20	20	10	200 mtr	NA	80 Sunabeda Santuary	15	45	Yes	Approved for Road Metal

ROAD METAL/ BLACKSTONE/WHITESTONE/LATERITE/ MORRUM/EARTH FOR ROAD CONSTRUCTIO/EARTH FOR BRICK MAKING SAIRATS TO BE DELARED AS NEW SOURCES
(TO BE FILLED BY TAHASILDARS FOR RESPECTIVE TAHASILS [SEPARATE SHEET FOR DIFF MINERAL])

Sl. No.	Name of Tahasil	Name of Minor Mineral	Portion of the Land, River or Stream recommended for mineral concession (GPS co-ordinates or Khata& Plot No)(Sketch map to be attached)	Name of village	Area recommended for mineral concession (in Hects)	Geological Reserve	Maximum Mineable sand (in cum) (60% of total potential)	Remarks
A	B	C	D	E	F	G	H	I

1	AGALPUR	Nil	Nil	Nil	Nil	Nil	Nil	Nil
2	BANGOMUNDA	(BLACK STONE) Patalpara Stone Quarry	N20° 18' 18.2" to N20° 18' 21.6" E82° 53' 38.9" to E82° 53' 41.7" Khata No-48 Plot No- 140 Kisam – Pathar Chatan Khata No-105 Plot No- 1174 Kisam – Pathar Chatan	Patalpara	0.424 Hects	18940 Cum	14505 Cum	Tahasil Letter No-149 dt. 04/02/2020
3	BANGOMUNDA	(BLACK STONE) Borbahal Stone Quarry	20° 19' 59.7" N to 20° 20' 01.6" N 82° 54′ 42.0″ E to 82° 54′ 45.1″ E	Borbahal	0.242Hects	33210cum	8559cum	Tahasil Letter No-149 dt. 04/02/2020
4	BANGOMUNDA	(ROAD METAL) Deheli Stone Quarry-B	1.618 Hects Khata No-107 Plot No-9 Kissam-Parbata	Deheli	1.618 Hects	129638 Cum	57240 Cum	Tahasil Letter No-395 dt. 04/03/2021
5	BANGOMUNDA	(ROAD METAL) Salemudga Stone Quarry-C	1.618 Hects Khata No-40 Plot No-398 Kissam-Parbata	Salemudga	1.618 Hects	174192 Cum	73569 Cum	Tahasil Letter No-399 dt. 04/03/2021
6	BELPADA	(BLACK STONE) Bundamunda Stone Quarry	4.208 Hects Mouza-Budamunda KhataNo-63, Plot No-646/P **Kissam- Gochar**	Budamunda	4.208 Hects	210400 Cum	126240 Cum	Tahasil Letter No-104 dt. 09/01/20
7	BELPADA	(BLACK STONE) Ghagurli Stone Quarry	20.214 Hects Mouza- Ghagurli KhataNo-214, Plot No-14,15 & 56 **Kissam- Dunguri**	Ghagurli	20.214 Hects	808560 Cum	485136 Cum	Tahasil Letter No-104 dt. 09/01/20
8	BELPADA	(BLACK STONE) Bhalubahali Stone Quarry	5.422 Hects Mouza- Bhalubahali KhataNo-54,	Bhalubahali	5.422 Hects	216880 Cum	130128 Cum	Tahasil Letter No-104 dt.

			Plot No-144 **Kissam- Gochar**					09/01/20
9	BOLANGIR	(BLACK STONE) Fatkara Stone Quarry	3.277 Hects. 20˚ 36' 22.4" N to 20˚ 36' 31.1" N To 83˚ 20′ 15.1″ E to 83˚ 20′ 21.0″ E Khata No- 151, Plot No- 1236& 1276, Kisam- Pathara chatana	Fatkara	3.277 Hects	429132 Cum	180180 Cum MGQ-2600 Cum	Tahasil Letter No-815dt. 12/02/2020
10	DEOGAON	(BLACK STONE) Mudapala Stone Quarry	0.404 Hects Latitude : 20˚ 33' 23.29" N to 20˚ 33'25.76" N Longitude: 83˚ 34′ 35.47″ E to 83˚ 34′ 37.68″ E Khata No- 116, Plot No- 544 Kisam- Dunguri	Mudapala	0.404 Hects	62316 Cum	19561 Cum MGQ-1000 Cum	Tahasil Letter No-1031 dt. 13/07/2020
11	KANTABANJI	Nil	Nil	Nil	Nil	Nil	Nil	Nil
12	KHAPRAKHOL	Nil	Nil	Nil	Nil	Nil	Nil	Nil
13	LOISINGHA	Nil	Nil	Nil	Nil	Nil	Nil	Nil
14	MURIBAHAL	Nil	Nil	Nil	Nil	Nil	Nil	Nil
15	PATNAGARH	(BLACK STONE) Nijibahal Stone Quarry	2.880 Acres Or 1.165 Hects. Mouza- Nijibahal Khata No-53, Plot No- 390, Kissam- Dunguri	Nijibahal	1.165 Hects	233000	139800 Cum	Tahasil Letter No-874 dt. 20/02/20
16	PUINTALA	(Black Stone) Badaburkabahal Stone Quarry-B	5.00 Acres Or 2.023 Hects. Mouza- Badaburkabahal Khata No-77, Plot No- 628/P, Kissam- Dunguri	Badaburkabahal	2.023 Hects	249061 Cum	116496 Cum	Tahasil Letter No-1455 dt. 07/10/20
17	PUINTALA	(Black Stone)	2.02 Acres Or 0.817	Janipali	0.817 Hects	117926 Cum	58374 Cum	Tahasil

		Janipali Stone Quarry	Hects. Mouza- Janipali Khata No-51, Plot No- 400, Kissam- Dunguri					Letter No-1455 dt. 07/10/20
18	PUINTALA	(Black Stone) Bileikani Stone Quarry	5.00 Acres Or 2.023 Hects. Mouza- Bileikani Khata No-130, Plot No-32, Kissam- Dunguri	Bileikani	2.023 Hects	268785 Cum	145390 Cum	Tahasil Letter No-1455 dt. 07/10/20
19	PUINTALA	(Black Stone) Duhel-C Stone Quarry	2.52 Acres Or 1.019 Hects. Mauza- Duhel Khata No- 105, Plot No-1073, Kissam- Dunguri	Duhel	1.019 Hects	108297 Cum	1552239 Cum	Tahasil Letter No-1455 dt. 07/10/20
20	SAINTALA	Nil	Nil	Nil	Nil	Nil	Nil	Nil
21	TITLAGARH	(Black Stone) Kotmara-II Stone Quarry	1.50 Acres Or 0.607 Hects. Mouza- Kotmara Khata No-108, Plot No- 487, Kissam- Pathar Chatana	Kotmara	0.607 Hects	111672 Cum	43780 Cum	Tahasil Letter No-1896 dt. 20/08/20
22	TITLAGARH	(Black Stone) Limpada Stone Quarry	4.03 Acres Or 1.631 Hects. Mouza- Limpada Khata No-26, Plot No- 257 & 366, Kissam- Dunguri	Limpada	1.631Hects	206928 Cum	83700 Cum	Tahasil Letter No-1896 dt. 20/08/20
23	TITLAGARH	(Black Stone) Sihini-2 Stone Quarry	2.00 Acres Or 0.809 Hects. Mouza- Sihini Khata No-233, Plot No- 108, Kissam- Pathar Chatana	Sihini	0.809 Hects	122976 Cum	49698 Cum	Tahasil Letter No-1896 dt. 20/08/20
24	TUSRA	Nil	Nil	Nil	Nil	Nil	Nil	Nil
25	BANGOMUNDA	(BLACK STONE)	Khata No-96	Sangamada	1.942 Hects	142128 Cum	62586 Cum	Tahasil

	Sangamada Stone Quarry-D	Plot No- 70 Kisam – Pathar Chatan					Letter No-283 dt. 12/02/2021

ROAD METAL/ BLACKSTONE/WHITESTONE/LATERITE/ MORRUM/EARTH FOR ROAD CONSTRUCTIO/EARTH FOR BRICK MAKING SAIRATS PROPOSED TO BE LEASED OUT FOR 5 YEARS

(TO BE FILLED BY TAHASILDARS FOR RESPECTIVE TAHASILS

A. FOR SOURCES ALREADY ISSUED LOI

Sl. No.	Name of Tahasil	Name of village	Name of Minor Mineral and Area of Sairat (Ha)	Location of the Source (Total Hillock) recommended for mineral concession (GPS co-ordinates or Khata & Plot No) (Sketch map to be attached)	Area of the mineral potential patch (in sq m)	Average height of potential patch (in m)	Mineable mineral potential (in cum)	MGQ (cum)	Aerial distance in km from different water related structures					Aerial Distance and name from village and public places in km					Aerial Distance and name from diff Roads					Aerial Distance and name from diff Forest related features			Access road exists or not (Yes or No)	Approval of Authority of Dir of Geology declaring the source unsuitable for decorative stone (Only for Road metal and Stone sources) & OSPCB	
									Bridge	Culvert	Dam/ Embankment	River/ Stream /canal /Pond/ Water Harvesting structure (with name)	Any other cross drainage structure	Village	School	College	Temple/ Place of Any worship	Any other public place (specify)	NH	State Highway	Village Road	RLY Line	Any other Road	Sanctuary/ Wildlife habitat	RF /PF /PRF	Biosphere			
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	Y	Z	a	b	c		
	FOR SOURCES ALREADY ISSUED LOI (BALANGIR)																													
1	AGALPUR	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
2	BANGOMUNDA	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
3	BELP	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

	ADA																										
4	BOLANGIR	Salepali	Salepali Stone Quarry-1 0.412 Hects (2019 - 20 to 2023-24) T.L-No-4069 dtd. 30/09/2019	20° 45' 01.04" N to 20° 45' 07.46" N To 83° 26′ 31.08″ E to 83° 26′ 37.03 ″ E Khata No-136 Plot No-768 Kissam-Dunguri Lessee-Sri Maheh Choudhury, At/Po-Chandanbhati, Dist-Balangir	4120	2	2548 0	600	22	18	39 Kr upasindhu Dam	17 Sutkel River	NA	2 Basupali	1.5 u.p school	10 Balangir	1 Village	NA	24 NH-26	25 SH-42	500 mtr	5 E/C Railway line	NA	88 Sunabeda	200 mtr	88	Yes	Approved for road metal
5	BOLANGIR	Rajamunda	Rajamunda Stone Quarry 0.809 Hects (2019 - 20 to 2023-24) T.L-No-3803 dtd. 17/09/2019	20° 36' 38.43" N to 20° 36' 44.56" N To 83° 20′ 05.22″ E to 83° 20′ 10.52″ E Khata No-114 Plot No- 887 Kissam-Dunguri. Lessee-Bharat Kumar Agrawal, At/Po-Chudapali Dist-Balangir	8090	4	59520	1200	23	21	42 Kr upasindhu Dam	18 Sutkel River	NA	2 Basupali	1.5 u.p school	10 Balangir	1 Village	NA	24 NH-26	25 SH-42	500 mtr	5 E/C Railway line	NA	89 Sunabeda	200 mtr	89	Yes	Approved for road metal

6	BOLANGIR	Mankadchuan	Mankadchuan Stone Quarry 1.416 Hects (2019 - 20 to 2023-24) T.L-No-4905 dtd. 07/11/2019	20° 37' 34.13" N to 20° 37' 41.70" N To 83° 30′ 34.74″ E to 83° 30′ 37.59″ E Khata No-96 Plot No-1149 Kissam-Dunguri Lessee- Sri Ankush Prasad Hota,At/Po - Puintala, Dist-Balangir	1416 0	3	5459 5	600	23	21	42 Kr upasindhu Dam	18 Sutkel River	NA	2 Basupali	1.5 u.p school	10 Balangir	1 Village	NA	24 NH-26	25 SH-42	500 mtr	5 E/C Railway line	NA	89 Sunabeda	200 mtr	89	Yes	Approved for road metal
7	BOLANGIR	Hardatal	Hardatal Stone quarry 2.104 Hects (2019 - 20 to 2023-24) T.L-No-4905 dtd. 07/11/2019	20° 44' 20.5" N to 20° 44' 14.0" N To 83° 20′ 38.6″ E to 83° 20′ 46.3″ E Khata No-94 Plot No-9 Kissam-Pathara Chatan, Lessee-Khemji Bhai patel, Gandhinagarpada, Dist-Balangir	21040	3	80550	3000	4	2	49 Kr upasindhu Dam	2 Sutkel River	NA	1 Dhulusar	1 u.p school	12 Balangir	1 Village	NA	16 NH-26	1 SH-42	500 mtr	15 E/C Railway line	NA	76 Sunabeda	5	75	Yes	Approved for road metal
8	DEOGAON	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

9	KANTABANJI	Tikrapada	Tikrapada Stonequarry 4.04 Hects (2019 - 20 to 2023-24) 2379 Dtd. 14/12/2018	N20° 23' 32.22" to N20° 23' 32.08" E82° 45' 00.08" to E82° 45' 05.18" Khata No-53, PLOT No-683/1008, , Sri Goapl Agrawal At/Po/Ps-Kantabanji ,Dist-Balangir	4120	2	4040 0	570	2	1	39	8	NA	2 Basupali	1.5 u.p school	10 Balangir	1 Village	NA	24 NH-26	25 SH-42	500 mtr	5 E/C Railway line	NA	88 Sunabeda	200 mtr	88	Yes	Approved for road metal
10	KHAPRAKHOL	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
11	LOISINGHA	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
12	MURIBAHAL	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
13	PATNAGARH	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
14	PUINTALA	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
15	SAINTALA	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
16	TITLAGARH	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
17	TUSRA	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil