



# **DISTRICT SURVEY REPORT (DSR) 2024**

*OF*

## **KEONJHAR DISTRICT, ODISHA**

**FOR**

### **RIVER SAND**

**(FOR PLANNING & EXPLOITING OF MINOR  
MINERAL RESOURCES)**



**As per Notification No. S.O. 3611(E) New Delhi  
25<sup>th</sup> July, 2018.**

**MINISTRY OF ENVIRONMENT, FOREST AND  
CLIMATE CHANGE (MoEF & CC)**

**COLLECTORATE, KEONJHAR**

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## **PREFACE**

The District Survey Report (DSR) of Keonjhar District of Odisha for Sand mining was earlier prepared by the district administration in compliance to the notification issued by the Ministry of Environment and Forest and Climate Change Notification no. S.O.3611 (E) NEW DELHI dated 25-07-2018. Preparation of district survey report of Sand mining has been prepared in accordance with Clause II of Appendix X of the notification. At present it was felt necessary to incorporate some new sources as well as delete some existing sources from the least of source areas of the District Survey Report. Hence step was taken by the district administration to prepare the district survey report afresh considering the present situation of the minor mineral mining. Every effort has been made to cover potential Sand mining locations, future potential areas and over view of Sand mining activities in the district with all its relevant features pertaining the geology and mineral wealth. This report will act as a compendium of available mineral sources, geological set up, environmental and ecological set up of the district.

## **1. INTRODUCTION**

The Keonjhar district emerged as one of the districts of Odisha on 1st January, 1948. The district is bounded by Mayurbhanj district and Bhadrak district to the east, Jajpur district to the south, Dhenkanal district and Sundargarh district to the west and West Singhbhum district of Jharkhand State to the north. Covering a geographical area of 8303 sq km, the Keonjhar district lies between 21° 1' N to 22° 10' N latitude and 85° 11' E to 86° 22' E longitude.

The whole District of Keonjhar was a princely state before its merger with Odisha. From the history it reveals that a part of the old Khijjinga territory with headquarters at Khijjinga Kota, identified with modern Khiching. It became a separate state with Jyoti Bhanja as its ruling chief sometime during the first half of the 12th century A.D.

Then the State of Keonjhar comprised only the northern half of the modern district for a long time prior to the incarnation of Jyoti Bhanja as King. During the latter part of the 15th century the southern half of the district was occupied by King Govinda Bhanja under whose rule Keonjhar was extended from Singbhum in the north to Sukinda in the South and from Mayurbhanj in the East to the borders of the States of Bonai, Pallahara and Anugul in the West.

During the rule of Pratap Balabhadra Bhanja (1764–1792 A.D.) two small areas of Tillo and Jujhpada were purchased from the Zamindar of Kantajhari and were added to the district. These were recognised as parts of Keonjhar in the Sanad granted by the East India Company to Raja Janardan Bhanja in 1804. Since then there had been no territorial changes of the district till its merger with the Province of Odisha. But after merger largely for the reasons of administrative expediency the areas of Tillo (7.51 sq.km) and Jujhpada (9.06sq.km.) were transferred to the districts of Balasore and Cuttack respectively, while a number of villages called Ambo group (14.84 sq.km.) of Balasore district were added to Keonjhar district.

Keonjhar is one of the major minerals producing districts of Odisha. Iron ore, Manganese ore, Chromite, Quartzite, Bauxite, Gold and Pyrophyllite are the major minerals found in this district.

## **2. OVERVIEW OF MINING ACTIVITIES IN THE DISTRICT.**

### **Minerals:**

#### **IRON ORE:**

The main iron ore deposits are found along the classic Bonai-Keonjhar Horse Shoe shaped synclinorium which spared over an area of about 60KmX25Km.

Hematite is the chief mineral resource of this district. Important deposits were found in Thakurani, Bolani, Joda east, Khandbhanda, Sidhmath, Belkundi, Kasia-Barapada, Bolani, Kiribura, Gurudia, Jharibahal, Dubuna, Bamebari, Murga, Palsa, Jajang, Malangtoli, Chamakpura, Gandhamardhan, Daitari, Tomka, Inganijaran, Horomoto Guali and Uliburu. Iron ore bands occur in layered BIF bands along with volcano-sedimentary rock piles known as Iron Ore Super Group. Usually, four types of ore are seen i.e. hard massive, laminated, lateritic and blue dust.

A total of 3142.70 million tonnes of iron ore resource of all categories have been assessed with 64-68% Fe in massive, 62-65% Fe in laminated, 65-68% Fe in powdery blue dust type of ore.

Besides, investigation of iron ore by the Directorate in Horomoto-Guali area has established a possible reserve of 46.75 million tonnes of iron ore of grade varying from 51.20% to 65.24% Fe.

### **MANGANESE:**

The Keonjhar manganese belt is a part and partial of Singhbhum Bonai belt and one of the most important manganese ore producing regions of India. this is confined to shale formation of Pre-Cambrian Iron Ore Super Group as stratiform, stratabound and lateritoid types.

Important deposits in the Keonjhar district are located in the areas of Roida-Bhadrasahi, Silijhora-Kalimati, Guruda, Chormalda, Sarkunda, Dubna Kolarudkela, Podadihi-Langini-Jharan, Lasarda, Pacheri, Balani, Baneikala, Kendudihi-Purulipada, Horomoto-Jajang, Katasahi, Joribahal, Joda west and Belkundi etc.

The reserve of manganese ore is estimated as 127.27 million tonnes. The grade of the ore is variable from deposit to deposit as also from body to body within the same deposit. out of the total production,

about 10% to 15% forms the High Grade (more than 46% Mn), 25% to 30% Medium Grade (36-45% Mn) and the rest Low (less than 30-35% Mn) and still lower (less than 30% on Mn).

**CHROMITE :**

The chromite deposits of the district are associated with the ultramafic rocks of Nuasahi, Boula and Phuinjhorhuli area. The body extends for about 3Kms in an N-S direction. It is a dyke like body dipping steeply to the east and is widest in the centre and gradually tapering towards north and south. The ultrabasic occurs as intrusive in Precambrian metamorphites as well as differentiated layered igneous complex. It has a peridotite core with subordinate amount of chromite, peripheral pyroxenite and enstatite. the ultramafites include enstatite, bonzite, pyroxenite, serpentinitised dunites, talc schist, silicified dunites and chromitites with chromite loads. The chrome ore available are mostly of lumpy type.

The estimated reserve is 11.43 million tonnes with Cr<sub>2</sub>O<sub>3</sub> content varies from 40% to 45%.

**BAUXITE:**

Industrial and chemical grade Bauxite occurs on Dholkata pahar area of the district. The area is represented by metavolcanites characterized by metatholeiitic basalt. The different flows are separated by tuffaceous shale. Outcrops of metagabbro have been noticed to the east and south east of Dholkata pahar. Apart from these minor occurrences of bauxite in pockety or poddy nature has been reported along Keonjhar-Banai belt. The occurrences has been located around Kotalia, Khajurdi Pahar, east of Kasiara and Jaladihi area.

The Dholkata Bauxite is of high alumina, high iron, low silica and low titanium grade having 60 to 70% tri-hydrated as gibbsite and rest bohemite. the predominant iron minerals are goethite and hematite occurring as colloidal bands.

A total of 5.986 million tonnes of bauxite reserve has been estimated around Dholkata pahar area of the district.

**VANADIFEROUS MANGANESE:**

Deposits of vanadiferous magnetite occur in association with gabbro-anorthosite suite of rocks in the Precambrian metamorphic. A deposit of vanadiferous magnetite is seen near Phulinjhorhuli in Anandapur subdivision. The mineral occurs in a band of ultrabasic rocks about 4Km long.

**GOLD:**

The occurrence of gold is reported in Telkoi and Banspal block of Keonjhar district. Several old workings of the gold in the shape of elongated trenches, deep circular pits, wells and tunnels have been recognised around Saleikena, Sirisbahal, Dublapal, Bangadiha, Odal, Gopur, Gajipur and Kusuguda etc. The area covering the gold deposits constitute the rock units belonging to Iron Ore Super Group comprising of basic lava, tuffites, basic intrusive, metagabbro, metadiorite, amphibolites, quartzite and chlorite schist. The granitic suites of rocks are intrusive into the above rock types and are represented by micro granites, fracture, shear zone and faults might have acted both as channel ways and receptacles for gold deposition in the vein quartz bodies.

Few important fire assay results done by Hutti Gold Mines show gold values ranging from 1.8gm/tonne to 18.68gm/tonne in Gopur, traces to 5.3gm/tonne in Odal, traces to 2gm/tonne in Gajipur.

**PYROPHYLLITE:**

The occurrences of pyrophyllite are stretched over a 90Km long belt extending from Rebna-Palaspahar in the south to Dhobakuchuda-Balabhadrapur in the north. These are associated with the border area of Singhbhum Granite and quartzite hills such as Madrangajori, Macchakandana, Jodiaghat and south of Uchakabeda, eastern slope of Chantrabhangapahar, Dalimpur and Sidhamath area. The Pyrophyllite occurrences mentioned above are in the form of very fine flakes, typically soapy feel and associated with pyrophyllite quartz schist, quartz tourmaline pyrophyllite rocks and quartz tourmaline pyrophyllite schist as irregular patches.

A total reserve of 12.28 million tonnes have been assessed in Keonjhar district. The average percentage of  $Al_2O_3$  is 20-23%,  $SiO_2$ -65-75%,  $Fe_2O_3$ - 0.77% and LOI-3-4%.

**QUARTZITE:**

High grade quartzite mining activities are continuing near Barapada, Barang, Paharpur, Parsala area of the district. Besides, cherty and massive quartzite with 99%  $SiO_2$  are marked intermittently in the iron ore series near Rebna-Palaspahar, Magarmuhan, Jaypur, Dalmaposi, Chauthia and Nawabeda area.

A total reserve of 45.68 million tonnes of quartzite has been estimated in the district. The average  $SiO_2$  content varies from 95 to 99.66%.

**CHINA CLAY:**

Pockets of china clay are encountered near Judiapahar, Tarreni pokhari, Aupura, Fakirpur, Padmakesharpur, Jaypur, Kankadajodi, Adakata, Govindpur area of the district. The clay is yellowish white, gritty and occurs as pocket type.

The reserve of china clay has been estimated as 1.41 million tonnes in the area. The Al<sub>2</sub>O<sub>3</sub> content varies from 18.25% to 22.77%.

**DIMENSION STONE:**

Singhbhum granite, dolerite dykes and ultrabasic rocks of the district are suitable for dimension stone/ decorative stones. The 150Km long Palaspanga dyke from Keonjhar to Chainbasa, the longest dyke in Asia is being used for the above purpose in view of its colour, texture, composition and hardness. These are quarried at number of places around Dhurpada and Keonjhar. A part of dyke to the east of Kaliaprasad village has been estimated to contain 500Cu.m. of dimension stone of block size 0.5mx0.5mx0.5m. Lower shale formations found near village Lunagothani was found to be suitable for decorative purpose. However, 1606900Cu.m. of black granite, 18044200Cu.m. of Grey granite and 8379000Cu.m. of Green granite have been reported in the district.

**TALC-SOAPSTONE:**

This is reported from the northern slope of hill ranges immediately south and west of Kendujhargarh and Dalimpur. The talc-schist occurs as gently undulating slabby layers underlying the Kolhan sandstone. The highly foliated talc-schist are traversed by veins of quartz as impurities. Besides these, soapstone occurrence is encountered near Dholkata, Dalangpur, NE of Sayedmulia,

Suramundi, Kuladhamkuni, Sapghosara, Pithagola, Alanga area. These are locally utilized for preparation of stone ware and statues. The MgO content varies from 11.397 to 22%.

**PYRITE:**

Pyrite crystals have been recorded in dark grey shaly formation underlying the Kolhan sandstone west of Balibandha on the Keonjhar-Chainbasa road. The occurrence is of no economic importance.

**GLASS SAND:**

Some of the Kolhan sandstones in the northern portion of the district (near Barangam) is suitable for glass industry.

**BUILDING STONE & ROAD MATERIAL:**

Granite gneisses, aplites, dolerites and quartzite are being used as road metal and in concrete mixtures. Laterite blocks are extensively used as a very common building material. All these materials are found in plenty.

**OTHER MINERALS:**

A few occurrences of asbestos are encountered near Gopalpur and Ranki. Thin bands of slip fibres were marked in the peridotite body, but the economic aspect of this occurrence appears not to be viable. A patch of travertine limestone is also encountered near Asurkhol area. The district is the major producer of iron and manganese ore of the state. Other than the above mentioned minerals, minor minerals such as river sand, laterite slabs, building stone/black stone/road metals, morrum, brick earth etc. are also available in the district.

### 3. LIST OF LEASES WITH LOCATION, AREA AND PERIOD OF VALIDITY

Enclosed as Annexure A

### 4. DETAILS OF ROYALTY COLLECTED

Sl.No	Name of Tahasil	2021-22	2022-23	2023-24
1	Barbil	0	0	0
2	Patna	26,47,506.00	16,38,671.00	31,61,665.28
3	Saharapada	0	0	0
4	Anandpur	0	0	18,40,235.10
5	Banspal	0	0	0
6	Champua	53,07,360.00	2,35,20,022.00	1,35,53,273.00
7	Ghasipura	1,11,90,644.00	3,81,59,720.00	1,57,14,831.94
8	Ghatagaon	1,17,942.00	1,31,942.00	0
9	Harichandanpur	0	0	0
10	Hatadihi	0	0	1,68,72,767.00
11	Jhumpura	0	89,16,138.00	16,94,069.00
12	Keonjhar	0	0	0
13	Telkoi	0	9,57,187	0
	<b>TOTAL</b>	<b>1,92,63,452</b>	<b>7,33,23,680</b>	<b>5,28,36,841.32</b>

### 5. DETAILS OF PRODUCTION OF SAND

During last three years the production of sand in respect of different Tahasil is given below

Sl.No	Name of Tahasil	2021-22	2022-23	2023-24
1	Barbil	0	0	0
2	Patna	50,189	50,189	50,189
3	Saharapada	14,000	14,000	14,000
4	Anandpur	1,01,990	1,01,990	1,01,990
5	Banspal	0	0	0
6	Champua	60,998	60,998	60,998
7	Ghasipura	58,541	58,541	58,541
8	Ghatagaon	2,000	1,800	2,000
9	Harichandanpur	0	0	0
10	Hatadihi	66,392	66,392	66,392
11	Jhumpura	14,808	14,808	14,808
12	Keonjhar	0	0	0
13	Telkoi	9,258.4	9,258.4	9,258.4
	<b>TOTAL</b>	<b>3,78,176.4</b>	<b>3,77,976.4</b>	<b>3,78,176.4</b>

## 6. PROCESS OF DEPOSIT OF SEDIMENTS IN THE RIVERS

The drainage of the district is mainly controlled by rivers like Baitarani, Kangira, Ardei, Khairibandhan, Kanjhari, Sita, Kusei, Salandi etc. During rainy season the river water carries sand which is formed due to disintegration of rock bodies along with other suspensions. After recession of the water flow the sand gets deposited in the locations due to drop in energy. Sincere steps are being taken by the district administration to collect pre-monsoon and post monsoon survey data of river sand sources and the stretch of rivers passing through the district to calculate the replenishment rate of river sand as per provisions of Enforcement & Monitoring Guidelines for Sand Mining January 2020 by Ministry of Environment & forest and Climate Change, Govt of India

## 7. GENERAL PROFILE

### a. Administrative set up:

Sl. No	Item	Unit	Magnitude
1	Location	-----	-----
	Longitude	Degree	85 <sup>0</sup> 11' E to 86 <sup>0</sup> 22' E
	Latitude	Degree	21 <sup>0</sup> 1' N to 22 <sup>0</sup> 10' N
2	Geographical area	Sq.Km.	8303
3	Sub-division	Numbers	3
4	Tahasils	Numbers	13
5	C D Blocks	Numbers	13
6	Municipalities	Numbers	4
7	NACs	Numbers	1
8	Police Stations	Numbers	25
9	Gram Panchayats	Numbers	297
10	Villages	Numbers	2123
	Inhabited	Numbers	2064
	Uninhabited	Numbers	59
11	Assembly constituencies	Numbers	6

**b. Area and Population:**

The district has an area of 8303 sq. km and 18.02 lakh of population as per 2011 census. The district accounts for 4.09 percent of the states territory and shares 3.03 percent of the state's population. The density population of the district is 217. per sq. kms. as against 270 person per sq. km. of the state.

**c. Climate:**

The climate condition of the district is generally hot and high humidity during April to May and cold during November to December. The monsoon generally breaks during the month of July, Average annual rainfall of last four years in the district was 1489.69 mm during 2017, which is slightly more than the normal rainfall 1487.7 mm.

**d. Agriculture:**

The production of different agriculture products during last five years is given below (in MT)

<b>Year</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>
Paddy	405646	405997	519403	465015	506300	515701
Wheat	419	360	317	428	414	486
Maize	39987	40625	61605	60534	50536	72360
Mung	6311	6079	5796	4861	4246	4323
Biri	7275	7445	6518	6335	8456	8680
Kulthi	6131	6719	6846	7740	5469	9820
Til	1955	1862	2019	1880	2032	2572
Groundnut	4644	3529	5963	5921	4995	4220
Mustard	2306	2707	4032	4495	3258	4367
Potato	26135	28078	33780	37236	28900	37296
Jute	2984	2984	2662	4412	3354	3575
Sugarcane	556	316	446	805	302	453

During last five years, the total fertilizers used in the district was about

Type of fertilizer consumed/Used (MT)	Nitrogenous	Phosphatic	Pottasic	Total	Consumption in kg per Ha
2019-20	9230.635	5227.914	1468.990	15927.539	42.74
2020-21	9298.907	5117.283	1509.340	15985.530	43.13
2021-22	7956.879	5373.939	1669.106	14999.924	41.14
2022-23	8420.544	4480.403	1081.621	13982.567	36.76
2023-24	10322.882	5706.882	1226.048	17255.812	42.97

**e. Power:**

Consumption of electricity in the district during the year five years (upto July 24) and villages so far electrified during last five years is given below.

Financial Year	Consumption of Electricity (in Units)
Fy 2020-21	925.30 x10 <sup>6</sup>
Fy 2021-22	1057.46 x10 <sup>6</sup>
Fy 2022-13	1754.74 x10 <sup>6</sup>
Fy 2023-24	1856.49 x10 <sup>6</sup>
Fy 2024-25(April to July 24)	686.37 x10 <sup>6</sup>

Village Electrification during last five years

Item	No. of Villages
Electrification in completely unelectrified villages	36
Electrification in partially electrified villages	1968

**f. Transport & Communication:**

Railway route length (14-15) km	158.06
No of Rly stations and PH (14-15)	16
Forest road (17-18) km	249.98
National Highway (16-17) km	341.30
State Highway (17-18) km	52.74
Major district road (17-18) km	34.29
Other dist. road (17-18) km	885.98
Rural road (17-18) km	1945.90
Inter village road (16-17) km	3912.49
Intra village road (16-17) km	3143.74

**g. Health:**

The medical facilities are provided by different agencies like Govt., Private individuals and voluntary organizations in the district.

No of Hospitals	26 No
Beds facilities	832 No
Homoeopathic dispensaries	48 No
Ayurvedic dispensaries	34 No

Detail of the Allopathic hospitals is as below:

<b>Sl. No</b>	<b>Name of the Institutions</b>	<b>No. of hospital beds</b>
1	DHH Keonjhar	330
2	SDH Anandapur	128
3	SDH Champua	102
4	CHC Fakirpur	6
5	CHC Banspal	16
6	CHC Jhumpura	16
7	CHC Bhandra	16
8	CHC Siankul	16

9	CHC Ghatgaon	30
10	CHC Harichandanpur	16
11	CHC Salania	16
12	CHC Basudevpur	16
13	CHC Padampur	16
14	CHC Patna	16
15	CHC Udaypur	6
16	CHC Telkoi	16
17	CHC Barbil	16
18	CHC Joda	6
19	CHC Bhagamunda	6
20	Kesudarapal CHC	6
21	Hadagada OH	6
22	Hatadihi OH	6
23	Ukhunda OH	6
24	Dumuria OH	6
25	Sirigida OH	6
26	Kaliahata OH	6
	Total	832

#### **h. Tourist places:**

Kushaleswar Temple, Kanjipani Ghati, Keshari Kunda, Murga Mahadev Temple, Gonasika Temple, Hadagada Reservoir, Handibhanaga, Ghagra & Gundichaghagi waterfalls are the tourist spots of the district.

**i. Forest areas:**

Category of forest	Area in sq km
Reserve Forest	1,834.09
Unclassified Forest	0.26
Demarcated Protected Forest (DRF)	273.64
Undemarcated Protected Forest	220.79
Other forest under Revenue Dept	768.40
<b>Total</b>	<b>3,097.18</b>

**j. Education:**

Primary School (2023-24)	No. of Schools	1,530
	Enrolment (No)	1,29,573
	Pupil Teacher Ratio	35.70
Upper Primary School (2023-24)	No. of Schools	745
	Enrolment (No)	72,172
	Pupil Teacher Ratio	48.4
General College	Junior	80
	Degree	38
Secondary School	No. of Schools	410
	Enrolment (No)	73,866
	Pupil Teacher Ratio	----
Literacy Rate, 2011	Male	79.6
	Female	60.7
	Total	68.24

**k. Culture & Heritage:**

Keonjhar district is very much rich in its fairs and festivals like Sarhul, Sohrai, Karmapuja, Bodam, Chaitra parab or Uda parab, Makara sankranti, Nuakhai, Raja parab, Baruni jatra, Ratha jatra, Sivaratri etc. Famous folk dances are CHANGU, CHHAU, JUANG, HO etc.

## 8. LAND UTILISATION PATTERN

Sl. No	Land use	Area in '000Ha
1	Forest Area	310
2	Misc. trees & Grooves	6
3	Permanent Pasture	20
4	Culturable Waste	26
5	Land put to Non Agril Use	70
6	Barren & Unculturable Land	93
7	Current Fallow	10
8	Other Fallow	0
9	Net Area Sown	288
10	Mining	7
	<b>Geographical Area</b>	<b>830</b>

## 9. PHYSIOGRAPHY

The Keonjhar district shows conspicuous physiographic variations and mainly represented by high hills/ isolated hillocks/ domal granitic outcrops, vast undulating plains and alluvial tract.

**High hills/ Isolated hillocks/ Domal Granitic outcrops:** Highly resistant rocks like quartzites, B.H.J. and B.H.Q bearing iron ore group of rocks, proterozoic volcanics and Kolhan sedimentaries constitute these outcrops rising to maximum height of 1062 meters above msl in Sukati and Banspal sector. The Tomka-Daitari Iron ore range exposed in the southwestern part of the district encompasses high hills of Maghananda parbat rising to a height of 1055 meters above msl.

**Undulating plains:** The undulating terrain stretching from north to the southeast is reversed by numerous isolated hillocks and granitic domes. The height varies from 100m to 602 m.

**Alluvial tract:** Flat alluvial tract made up of late Pleistocene to recent sediments and occurs in the flood plain of Baitarani River in the south eastern part of the district and is located at a height of about 20-35 meters above msl.

## 10. RAINFALL

The district is generally hot with high humidity during April and May and cold during December and January. The monsoon generally breaks during the month of July and continues till end of October. The temperature goes as high as up to 41.8°C in the summer and up to 6.4° C during peak winter.

**The rainfall statistics of the district for last four years is given below:**

Year	2021-22	2022-23	2023-24	2024-25 (30.8.24)
MONTH	(mm)	(mm)	(mm)	(mm)
APRIL	37.32	17.94	68.44	7.5
MAY	342.68	90.88	60.83	96.94
JUNE	154.15	137.65	212.52	109.64
JULY	232.85	326.95	274.4	208.21
AUGUST	178.73	404.79	392.42	299.73
SEPT	361.19	175.46	266.13	0
OCT	88.15	87.35	128	0
NOV	27.8	0	10.28	0
DEC	60.21	0	25.52	0
JAN	32.66	0.61	29.3	0
FEB	17.58	0	6.13	0
MARCH	0.43	51.86	49.06	0
<b>TOTAL</b>	<b>1,533.75</b>	<b>1,293.04</b>	<b>1,523.03</b>	<b>722.02</b>

## 11. GEOLOGY AND MINERAL WEALTH

The district can be broadly divided into seven geological units viz.: (i) The patchy occurrences of metamorphites belonging to Older metamorphics of Archaean age (ii) Huge batholiths of Singhbhum Granite with swarms of newer dolerites dykes in the eastern part of the district, (iii) Meta-sedimentary rocks belonging to Gorumahisani Group of Archean age in the southwestern part of the district (iv) Volcano-sedimentary sequence intruded by Bonai granite belonging to Lower Bonai group of age ranging between Archean to Paleo-Proterozoic in the south-west and on the north-west (v) Intrusives like chromiferous ultramafics, gabbro-anorthosite, dolerite and quartz veins of Archaean to Proterozoic age (vi) Sedimentary and meta-sedimentary rocks belonging to Kolhan Group ranging in age from lower to middle Proterozoic (vii) Laterites of Cenozoic age and (viii) Quaternary sediments represented by Kaimundi formation and unclassified alluvium.

The Singhbhum granite shows wide variation from highly foliated biotite-epidote granodiorite to grayish white medium grained weakly foliated to nearly massive muscovite-biotite granodiorite. It contains enclaves of Older metamorphics represented by hornblende schist, chlorite schist and meta-gabbros. However, the Keonjhar granite has more feldspar content than Mayurbhanj granite. Gorumahisani Group consists of sheared pebbly quartzite, hornblende schist and BHQ. The Volcano-sedimentary rocks of lower Bonai Group comprise of Basic Volcanics, BHQ, BHJ, ferruginous shale, quartzite, iron ore bodies and tuff with or without manganese. The chromiferous ultra-basics of Nuasahi and the mafic-ultramafic complex of Baula are rich in Cr-Fe-Ni and is probable locale for PGE. This is followed by late magmatic gabbro-anorthosite suite of rocks. The dolerite and gabbro occur as the younger intrusives. The Kolhan Group of rocks comprise of conglomerate, sandstone, shale and quartzite. The insitu laterites are wide spread in the area. The Kaimundi formation consists of sandy sticky clay impregnated with caliche and

unclassified Quaternary sediments represented by black to brown clay and coarse to fine sand.

### STRATIGRAPHY:

The geological succession in the district is as follows:

Age	Formation/Group	Lithology
Holocene		Alluvium
Late Pleistocene to Early Holocene	Kaimundi Formation	Clay with Calcareous concentration
Cainozoic		Laterite and lateritic bauxite (Lbx)
Palaeo to Meso Proterozoic	Kolhan Group	Conglomerate, sandstone and shale
Palaeo Proterozoic		Dangoaposi lava
Proterozoic (Undifferentiated)		Granophyre/ gabbro/anorthosite
Archaean to Proterozoic		Newer Ddolerite
		Ultramafic rocks+Chromite
Archaean to Palaeo Proterozoic	Lower Bonai Group	Basalt, tuff, meta gabbro
		Granite
		Shale, tuff and manganese
		BHQ, BHJ, ferruginous shale and quartzite
		Gritty sandstone, orthoquartzite, conglomerate
Archaean	Gorumahishani Group	Hornblende schist, chlorite schist, amphibolite and meta-gabbro
		Quartzite, quartz sericite schist, cherty quartzite, fuchs site quartzite and black chert
		Quartzite, chert
		BHQ, BMQ, BCQ, BJQ
		Ferruginous shale,

		carbonaceous shale phyllite and mica schist
		Pebbly quartzite, gritty quartzite and quartzite
	Older Metamorphic Group	Singhbhum granite/ Hornblende Granite
		Pellitic schist, quartzite and amphibolite

The district has various mining leases of iron and manganese ore and cater to the need of various steel plants of the state and the nation. Iron ore fines of the district are also exported to various nations particularly China. Also, minor minerals like sand, laterite, morrum and specified mineral like pyrophyllite and quartz/quartzite are available and mined out in the district for excavation.

- a. Detail of river/stream/other sand source- Sand mining in the district is confined to rivers like Baitarani, Kangira, Ardei, Khairibandhan, Kanjhari, Sita, Kusei, Salandi etc.
- b. Availability of sand or gravel or aggregate resources- sand- 11,08,541 cum (Annexure A), Gravel- Nil, Aggregate- Nil.
- c. Detail of existing mining leases of sand and aggregates- For sand pl refer Annexure I. Aggregate- Nil

This is the maximum volume of sand which can be quarried out from the sources of the district and has been calculated as 60% of the quantity derived by multiplying the area of the source with 3m thickness as the exact resource of sand is not possible to calculate due to flowing water of last monsoon.

- d. Detail of existing mining leases of sand and aggregates- For sand pl refer Annexure II. Aggregate- Nil

## 12. DRAINAGE SYSTEM AND DESCRIPTION OF SALIENT FEATURES OF MAIN RIVERS AND STREAMS

The district is mainly drained by the river Baitarani and its tributaries barring a very small patch in the extreme south-western part, falling in Brahmani basin. The major tributaries are Kanjhari, Sitanadi, Salandi, Musal nadi, Orarai nadi, Remal, Kasai and Deo nadi etc. and these are mostly perennial. The drainage pattern is mostly dendritic in nature. Sub-parallel drainage pattern is well developed in the south-eastern part of the district. The drainage density is moderately high in western part of the district representing high hill ranges constituted mostly by Iron ore group of rocks and volcanics which suggest high run off and low infiltration. Hydrogeological surveys and remote sensing studies have revealed that the drainage pattern in the district is controlled by the fracture system which is developed due to tectonic deformation occurred in the area in several phases.

SI. No	Name of the River	Place of Origin	Altitude at Origin	Total length in the district (in Km) (Total length)
1	2	3	4	5
1	Baitarani	Gonasika	Longitude- 21 <sup>0</sup> -31'-00" N Longitude- 85 <sup>0</sup> -33'-00"E	240Km upto Anandapur
2	Kangira	Haladi Pokhari		40Km
3	Aradei	Sidha Matha	Longitude- 22 <sup>0</sup> -009'-00" N Longitude- 85 <sup>0</sup> -68'-00"E	72.40Km
4	Khairibandhan	Smimlipal R.F.	Longitude- 21 <sup>0</sup> -924'-00" N Longitude- 85 <sup>0</sup> -794'-00"E	152Km
5	Deo	Sidha Matha	Longitude- 21 <sup>0</sup> -804'-00" N Longitude- 85 <sup>0</sup> -826'-00"E	80Km
6	Kanjhari	Kanjharibani Pira	Longitude- 21 <sup>0</sup> -685'-00" N Longitude- 85 <sup>0</sup> -851'-00"E	60Km
7	Sita	Barabanki	Longitude- 21 <sup>0</sup> -497'-00" N	26Km

		Hill	Longitude- 86 <sup>0</sup> -017'-00"E	
8	Musal	Rebana R.F.	Longitude- 21 <sup>0</sup> -32'-00" N Longitude- 86 <sup>0</sup> -066'-00"E	60Km
9	Kusei	R. Bera R.F.	Longitude- 21 <sup>0</sup> -139'-00" N Longitude- 86 <sup>0</sup> -178'-00"E	80Km
10	Salandi	Banjhi Kusaghat R.F.	Longitude- 20 <sup>0</sup> -79'-00" N Longitude- 86 <sup>0</sup> -678'-00"E	144Km
11	Bhirol		Longitude- 21 <sup>0</sup> -606'-00" N Longitude- 85 <sup>0</sup> -945'-00"E	
12	Mermenda		Longitude- 21 <sup>0</sup> -958'-00" N Longitude- 85 <sup>0</sup> -775'-00"E	

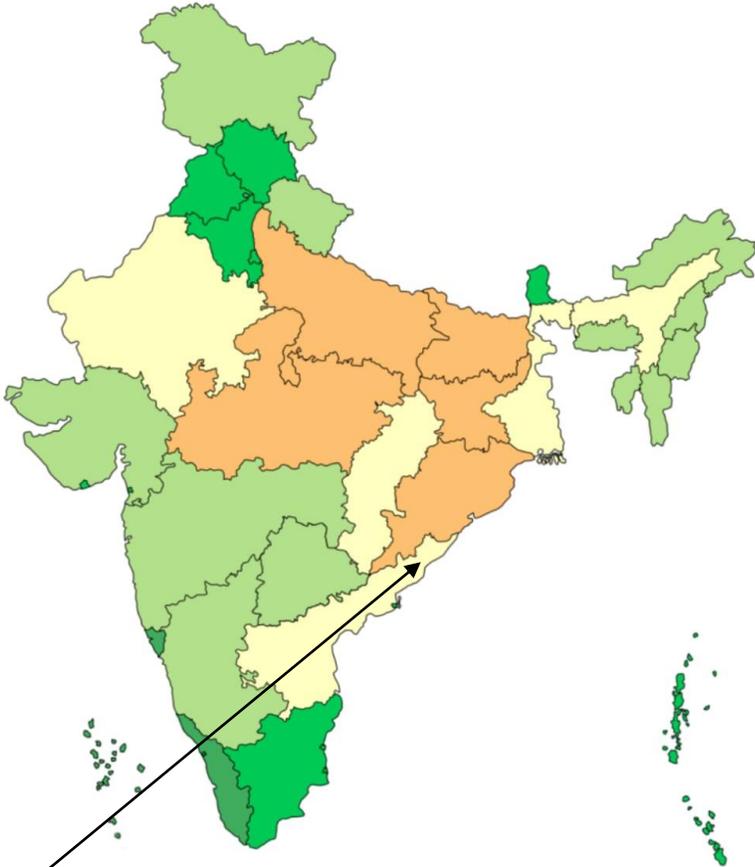
### 13. CONCLUSION:

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 insitu 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 equipment 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 Balasore 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 River Sand (Minor Mineral) in respect of Keonjhar 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, Enforcement & Monitoring Guideline for Sand Mining-2020. The DSR is being submitted to SEIAA, Odisha, Bhubaneswar for necessary evaluation and approval.

**INDEX MAP**

**INDIA**



**ODISHA**



**KEONJHAR**

# MAP SHOWING THE TAHASILS OF KEONJHAR DISTRICT.



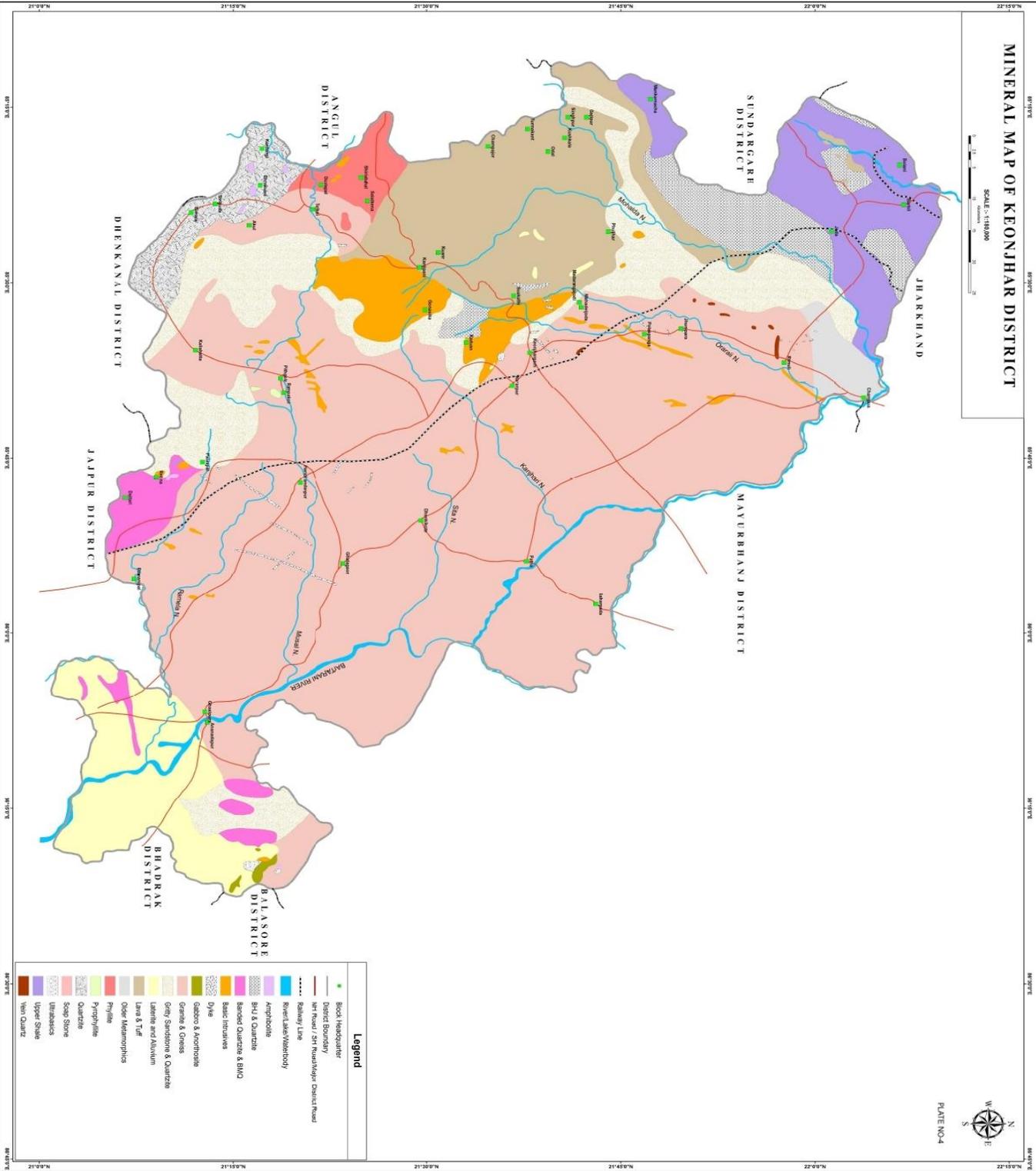
# MAP SHOWING THE MAJOR ROADS OF KEONJHAR DISTRICT



# MINERAL MAP OF KEONJHAR DISTRICT

MINERAL MAP OF KEONJHAR DISTRICT

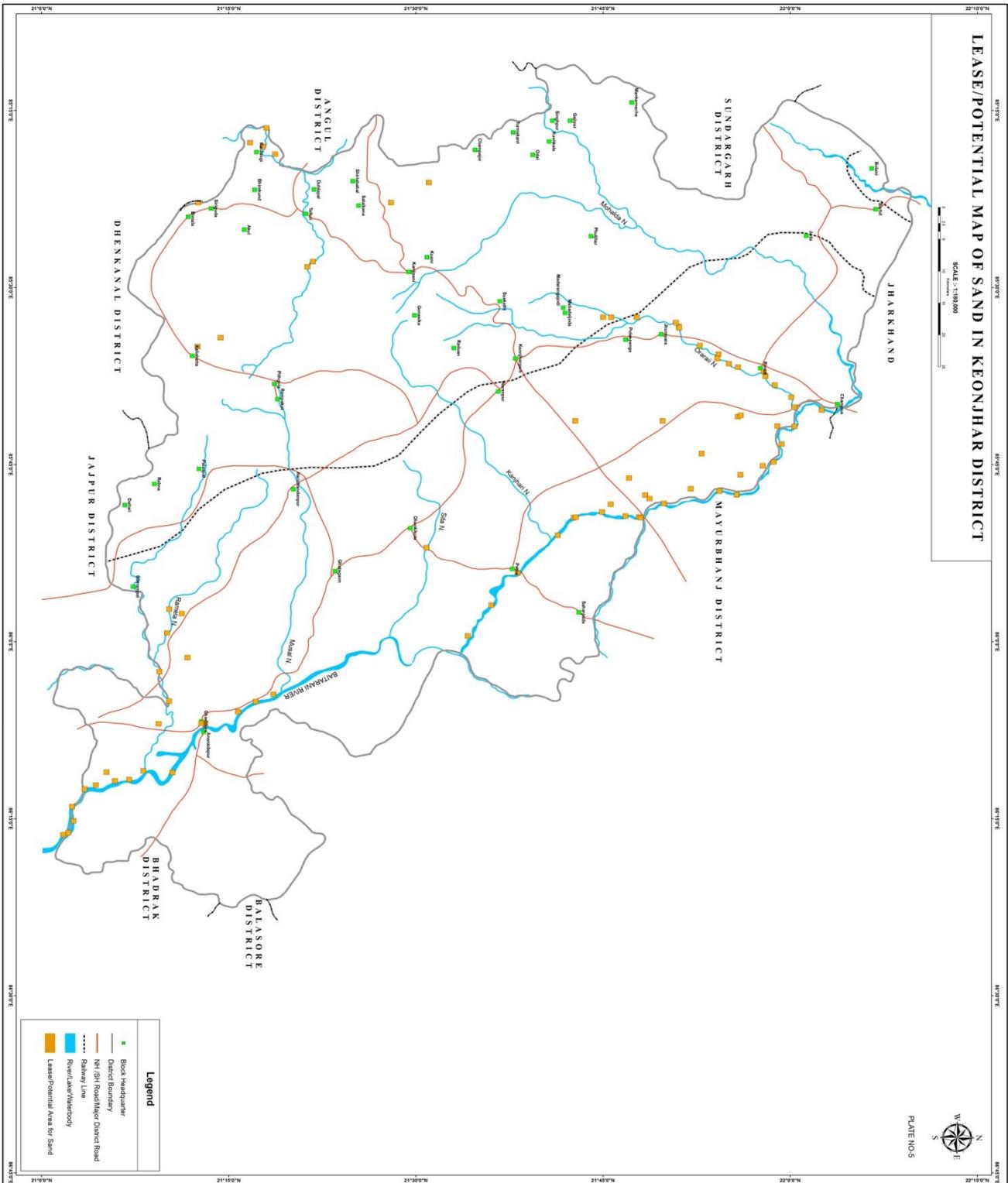
SCALE - 1:100,000



**Legend**

- Block Headquarter
- District Boundary
- Ner Road / Sri Kuntal/Upper District Road
- Railway Line
- River/Lake/Waterbody
- Amphibole
- BtH & Quartzite
- Sandstone Quartzite & BtH
- Basal Ironstones
- Dyke
- Gedron & Amphibole
- Granite & Gneiss
- Gneis, Sandstone & Quartzite
- Lamite and Alumin
- Lower Tuff
- Other Metamorphics
- Pyrophyllite
- Quartzite
- Soap Stone
- Ultrabases
- Upper Slate
- Vein Quartz

LEASE/POTENTIAL AREA MAP OF THE DISTRICT





11	10	9	8	7	6
PATNA	PATNA	PATNA	PATNA	PATNA	PATNA
PATANALI SAND QUARRY	RAIKALA SAND QUARRY	TANDO SAND QUARRY	DURGADEIPUR SAND QUARRY	DEOGAON SAND QUARRY	JHARBEDA SAND QUARRY
INACTIVE	INACTIVE	INACTIVE	INACTIVE	INACTIVE	INACTIVE
NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE
61	177	178	45(AAA)	47	60
583/653	598/1366	184/2887	1	261	272
10	12.301	52.25	3.00	0.92	4.50
SAND	SAND	SAND	SAND	SAND	SAND
	NA	Prakash ku. Agarwal	Sangram keshari Lenka	Pravat ku. Sahoo	Prasanta Das,S/O-Late Rudraprasad Dash
	NA	SBI Road, NEW Market,keonjhar Mob No.-	Galigopalpur,ChheNA padf,NAndipada,Keonjhar Mob No.-	Turumunga,Keonjhar, 758046 Mob No.-9938686680	Gourangasahi, Ward no. 9,Karanjia, mayurbhanj. Mob No.-
NA	NA	NA	NA	NA	23.02.2021
	NA	NA	NA	NA	22.02.2026
NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	308/SEIAA Dt-03.02.2021
85	85	85	85	85	85
49	49	59	54	49	47
5.14	8.76	35.20	15.33	20.40	43.44
21	21	21	21	21	21
43	45	34	38	46	48
18.86	13.97	32.20	16.60	4.10	29.64
O/C	O/C	O/C	O/C	O/C	O/C
	NA	21586.00	5306.00	22800.00	9105.00
	NA	18000.00	4472.00	20978.00	1577.00
0.00	277,640.00	797891.00	NA	NA	346957.00
0.00	NA	NA	NA	NA	186379.00
0.00	NA	NA	NA	NA	0.00
	NA	15000.00	1250.00	10489.00	1577.00
	NA	15000.00	1250.00	10489.00	1577.00
	NA	15000.00	1250.00	10489.00	1577.00
	NA	15000	1250	10489	1577

17	16	15	14	13	12
PATNA	PATNA	PATNA	PATNA	PATNA	PATNA
NUAPADA SAND QUARRY	TENTALA SAND QUARRY	TRIBINDHA SAND QUARRY	ANLADIHA SAND QUARRY	KIAPADA SAND QUARRY	CHANGUAPADA SAND QUARRY
NEW	NEW	NEW	NEW	NEW	INACTIVE
NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE
103	141	226	39	100	31
1	392	2107 1740	1	1	125/1
12.5	25.7	22.53	12.36	24.45	8
SAND	SAND	SAND	SAND	SAND	SAND
NA	NA	NA	NA	NA	
NA	NA	NA	NA	NA	
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	
85	85	85	85	85	85
52	48	49	50	49	49
11.22	17.38	25.80	54.79	28.79	18.64
21	21	21	21	21	21
40	49	47	41	42	42
12.94	52.90	51.80	20.86	39.39	53.39
O/C	O/C	O/C	O/C	O/C	O/C
NA	NA	NA	NA	NA	
NA	NA	NA	NA	NA	
NA	NA	NA	NA	NA	277,640.00
NA	NA	NA	NA	NA	0.00
NA	NA	NA	NA	NA	0.00
NA	NA	NA	NA	NA	
NA	NA	NA	NA	NA	
MP NOT PREPARED	187211.7	164119.8	MP NOT PREPARED	178106.00	

23	22	21	20	19	18
TELKOI	TELKOI	TELKOI	TELKOI	TELKOI	PATNA
SAMAKOI RIVER, VILLAGE BADA KUMUNDU	BENAMUNDA, BRAMHANIKANSA SAND QUARRY	BADAKUMUNDA SAND QUARRY	SAMAKOI DOBLAPAL-TELKOI	SAMAKOI SAND QUARRY, TELKOI	MAHISAMUNDI SAND QUARRY
NEW	INACTIVE	INACTIVE	INACTIVE	INACTIVE	NEW
NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE
26	184 62	26	214	329	154
53 54 245	75,335,337, 338,362	53,54,245	1500	205,1257, 2608	3048
188 3.42	2.150 9.87	7.10	12.72	38.45	6
SAND	SAND	SAND	SAND	SAND	SAND
NA	KuNA Sahu	KuNA Sahu	KuNA Sahu	KuNA Sahu	NA
NA	Dobalpal,Chhamund a,Telkoi,Keonjhar. Mob No.-6371328974	NA			
NA	31.05.2022	31.05.2022			NA
NA	30.05.2027	30.05.2027			NA
NA	NA	NA	NA	NA	NA
NA	EC22B001OR181479 Dt-30.06.2022	EC22B001OR147989 Dt-31.03.2022	3677/SEIAA Dt-27.12.2021		NA
85	85	85	85	85	85
27	34	27	21	23	48
47.90	15.10	26.10	1.94	6.72	47.36
21	21	21	21	21	21
21	12	22	21	21	39
43.50	49.40	4.20	32.32	5.96	27.34
O/C	O/C	O/C	O/C	O/C	O/C
NA	28417.00	29400.00	28800.00	8757.00	NA
NA	15780.00	9792.00	15000.00	7500.00	NA
NA	0.00	0.00	0.00	0.00	NA
NA	500824.00	456363.00	0.00	0.00	NA
NA	0.00	0.00	0.00	0.00	NA
NA	2800.00	1958.40	3000.00	1500.00	NA
NA	2800.00	1958.40	3000.00	1500.00	NA
NA	2800.00	1958.40	3000.00	1500.00	NA
8560	2800	1958.4	3000.00	1500.00	MP NOT PREPARED

TELKOI TAHASIL

29	28	27	26	25	24
GHATAGAON	TELKOI	TELKOI	TELKOI	TELKOI	TELKOI
KUNDAPITHA SAND BED	CHANDAN KULA NALA, VILLAGE-KARANGAPAL	SAMAKOI RIVER, VILLAGE RAGADA	SAMAKOI RIVER, VILLAGE CHAKRADHAR	SAMAKOI RIVER, VILLAGE KARADANG	SAMAKOI RIVER, VILLAGE BETAKHOLI
INACTIVE	NEW	NEW	NEW	NEW	NEW
NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE
178	40	91	7	380	36
1,7/1	226 227	1278/1	5/37/1	2267	1 230/1
11.28,1.22	5.28 0.39	11.09	11.09	8.8	4.56 1.19
SAND	SAND	SAND	SAND	SAND	SAND
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
85	85	85	85	85	85
54	34	18	16	18	28
14.50	15.00	42.30	28.90	2.50	14.66
21	21	21	21	21	21
30	14	18	18	17	21
36.40	20.00	42.30	1.00	44.40	17.10
O/C	O/C	O/C	O/C	O/C	O/C
12340.00	NA	NA	NA	NA	NA
9160.00	NA	NA	NA	NA	NA
117,942.00	NA	NA	NA	NA	NA
131,942.00	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
2000.00	NA	NA	NA	NA	NA
1800.00	NA	NA	NA	NA	NA
2000.00	NA	NA	NA	NA	NA
1912.00	7760	33874	33751	22878	22868

GHATAGAON TAHASIL

SAHARPADA TAHASIL

35	34	33	32	31	30
ANANDPUR	SAHARPADA	SAHARPADA	SAHARPADA	SAHARPADA	SAHARPADA
BAITARANI RIVER SAND BED,BUDHIKUD	MANGALPUR SAND SAIRAT, BAITARANI RIVER	GORANDJODI SAIRAT ,DEO RIVER	MOUDIJA SAND QUARRY	UDAYAPUR SAND QUARRY	MAYURPANKHA SAND QUARRY
INACTIVE	NEW	NEW	INACTIVE	INACTIVE	INACTIVE
NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE
113	84	236	94	696	57
1051/1132/1	1 1/984	215 269	1076/1	6087/1	594/1
12.5	6.14	6.9	11.8	7.7	12.04
SAND	SAND	SAND	SAND	SAND	SAND
Jogendra behera	NA	NA	NA	NA	NA
S/o-Gouranga Behera,at-elakania,Posalania,Ps-NAndipada,dist-keonjhar.	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
86	85	85	85	85	85
3	87	96	49	51	49
18.10	82.31	97.02	28.90	2.80	29.70
21	21	21	21	21	21
20	79	73	42	41	47
55.80	28.98	89.96	33.10	7.70	42.80
O/C	O/C	O/C	O/C	O/C	O/C
101180.00	NA	NA	37215.00	28261.00	35331.00
87510.00	NA	NA	32852.00	22843.00	30243.00
NA	NA	NA	0.00	NA	NA
NA	NA	NA	0.00	NA	NA
NA	NA	NA	0.00	NA	NA
17502.00	NA	NA	5000.00	4000.00	5000.00
17502.00	NA	NA	5000.00	4000.00	5000.00
17502.00	NA	NA	5000.00	4000.00	5000.00
17502.00	MP NOT PREPARED	MP NOT PREPARED	5000.00	4000.00	5000.00

**ANANDPUR TAHASIL**

41	ANANDPUR	40	39	38	37	36
ANANDPUR	ANANDPUR	ANANDPUR	ANANDPUR	ANANDPUR	ANANDPUR	ANANDPUR
PANCHUPALLY	BAITARANI RIVER SAND BED ,AMARANGA	BAITARANI RIVER SAND BED,TUKUNA	BAITARANI RIVER SAND BED,GOUDADIHA	BAITARANI RIVER SAND ,PANCHUPALLY	KUSEI RIVER SAND BED,BELABHALI TO BHATSIRA	
NEW	INACTIVE	INACTIVE	INACTIVE	INACTIVE	INACTIVE	INACTIVE
NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE
1115	240	111	217	1115	607, 231	
281	1315	1455	1	6203	1288, 1671	
111.2	32	7.155	12.5	12.50	3.50, 15.00	
SAND	SAND	SAND	SAND	SAND	SAND	SAND
NA	Santan samal	Ramesh chandra saho	Subash chandra rout	JyoshNA panda	Banshidhar NAYak	
NA	S/o-Late Bodhi samal,at/po/ps-ANAndapur,dist-keonjhar ph.no.-977775500	S/o- ANAnda chandra Sahoo,At-Barrigaon,Po-Bailo,Ps-GHASPURA,Dist-keonjhar.	At-Kunheipada, Po-Brahmanigaon PS- Baranga Dist-Cuttack	At- Gosogreswar Chhak, Ratha Road, BBSR, Ph no.- 7077660669	S/o-Late Sashibhusan NAYak, Plot no.- 70/3456,Jayadev vihar,BBSR.	
NA	456582/04-MIN/12-2023, DT. 15.05.2024	NA	NA	EC23B001OR143567 DT.12.07.2023	NA	
NA	86	86	86	86	86	
NA	4	8	5	11	6	
NA	31.80	34.40	4.10	30.60	6.80	
NA	21	21	21	21	21	
NA	18	11	17	9	10	
NA	47.10	48.90	14.90	57.90	22.80	
O/C	O/C	O/C	O/C	O/C	O/C	O/C
NA	129500.00	107325.00	126450.00	NA	29102.00	
NA	103250.00	95100.00	107225.00	NA	21074.00	
NA	0.00	NA	NA	NA	NA	
NA	0.00	NA	NA	NA	NA	
NA	0.00	NA	NA	1,074,641.10	NA	
NA	20650.00	19020.00	21445.00	8585.00	4420.00	
NA	20650.00	19020.00	21445.00	8585.00	4420.00	
NA	20650.00	19020.00	21445.00	8585.00	4420.00	
MP not prepared	20650.00	19020.00	21445.00	8585.00	4420.00	

47	46	45	44	43	42
GHASIPURA	GHASIPURA	GHASIPURA	GHASIPURA	ANANDPUR	ANANDPUR
REMAL SAND BED, KATHAPAL TO DARADIPAL	NAPANGA SAND QUARRY	BASANTAPURA SAND QUARRY	REMAL SAND BED, ANLAPAL	BATARANI RIVER SAND BED,ANANDAPUR	GUHALIA
ACTIVE	INACTIVE	INACTIVE	ACTIVE	ACTIVE	NEW
NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE
335, 335, 504	232	620	155	6520	221
245, 892/1, 550	219/894	4051	229	3,377	1
4.90, 5.66, 1.94	14	9.98	2	20.47	52.25
SAND	STONE	SAND	SAND	SAND	SAND
Hrushikesh jeNA	Bhagyakamal boitei	Gajendra Sahoo	Niranjan saho	MaNAsh ku. Barik	NA
S/o- Muralidhar jeNA,at-sarei,ps-dharmasala,dist-jeipur, ph.no.-9658529221	s/o- Bhagyarathi boitei,at-saladei,ps-Ramachandrapur, dist-Keonjhar,ph.no.-8917245494	S/O-Budhhadeva saho,at-Sarein,ps-GHASIPURA,dist-Keonjhar, ph.no.-9658529221	S/o-Rabindra saho,at/po/ps-GHASIPURA,dist-Keonjhar, ph.no.-9658529221	S/o-Late Gouranga charan barik,At-Barigaon,Po-Bailo,Ps-GHASIPURA, ph.no.-7008437346	NA
24.01.2023	12.11.2018	20.01.2022	19.04.2021	26.02.2024	NA
23.01.2028	11.11.2023	19.01.2027	18.04.2026	25.02.2029	NA
NA	NA	NA	NA	NA	NA
SIA/OR/MIN/402145/2022 DT.02.01.2023		SEIAA/2017 DT.09.08.2021	1122/SEIAA DT.30.03.2021	EC24B001OR155082 DT.03.02.2024	NA
85	86	86	85	86	NA
59	11	1	57	7	NA
14.76	47.77	9.07	37.06	7.37	NA
21	21	21	21	21	NA
10	5	11	11	12	NA
4.52	19.92	13.55	13.60	53.78	NA
O/C	O/C	O/C	O/C	O/C	O/C
35835.00	56656.00	80776.00	16208.00	125780.00	NA
11804.00	35927.00	9250.00	3950.00	51840.00	NA
2,693,960.00	391,468.00	565,564.00	521,604.00	0.00	NA
26,393,960.00	421,468.00	0.00	0.00	0.00	NA
2,145,945.94	0.00	0.00	252,370.00	765,594.00	NA
2361.00	1333.00	1850.00	790.00	10368.00	NA
2361.00	2200.00	1850.00	790.00	10368.00	NA
2361.00	2400.00	1850.00	790.00	10368.00	NA
2361.00	2400.00	1850.00	790.00	10368.00	NA
2361.00	2400.00	1850.00	790.00	10368.00	MP not prepared

**GHASIPURA TAHASIL**

53	52	51	50	49	48
GHASIPURA	GHASIPURA	GHASIPURA	GHASIPURA	GHASIPURA	GHASIPURA
MADHUKESHARI SAND QUARRY	REMAL SAND , BED, KHAILO	BAITARANI SAND BED , TAMPO	KUSHEI RIVER SAND BED,DEOGAON	BAITARANI SAND BED,TALAGAON	BAITARNI RIVER SAND BED , SALADEI
NEW	INACTIVE	INACTIVE	ACTIVE	INACTIVE	INACTIVE
NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE
261	216	221	352	269	420
1516	420, 358	705, 706	1297/1	1	2000/1
12	7.50, 5.00	12.50 12.50	11.5	12.3	12.3
SAND	SAND	SAND	SAND	SAND	SAND
NA	M/S JeNA Minerals pvt.ltd.	Hrushikesh jeNA	Sri Gorle Ramesh,Sri Sai Construction.	Sarat Chandra NAYak	Bhagyakamal boitei
NA	At-sarei,Ps-dharmasala,dist-jajpur, ph.no.-9658529221	S/o- Muralidhar jeNA,at-sarei,ps-dharmasala,dist-jajpur, ph.no.-9658529221	At-Jayadev vihar,IRC village ,NAYapalli, Treelet Hames,Plot No.868/3040,BBSR,Pin 751015	s/o-Braja sundar NAYak,at-Joda,ps-joda,dist-keonjhar, ph.no.-9437136243	s/o- Bhagyarathi boitei,at-saladei,ps-Ramachandrapur,dist-Keonjhar,ph.no.-8917245494
NA	NA	NA	10.07.2023	23.06.2023	10.02.2022
NA	NA	NA	09.07.2028	22.06.2028	9.02.2027
NA	NA	NA	NA	NA	NA
NA	SIA/OR/MIN/403597/2022, DT:02.01.2023	NA	EC23B001OR180821 DT:21.04.2023	SIA/OR/MIN/465472/2024 DT:08.03.2024	3240/SEIAA DT:07.10.2021
NA	85	86	86	86	86
NA	5	10	2	5	12
NA	7.40	56.05	40.93	53.80	9.10
NA	21	21	21	21	21
NA	10	8	9	15	4
NA	13.80	9.16	25.63	44.90	22.80
O/C	O/C	O/C	O/C	O/C	O/C
NA	101172.00	50588.00	55848.00	99560.00	94563.00
NA	46702.00	29844.00	24456.00	60432.00	64714.00
NA	0.00	NA	417,313.00	0.00	5,037,118.00
NA	0.00	NA	0.00	11,344,292.00	0.00
NA	0.00	NA	9,057,925.00	0.00	4,258,591.00
NA	9340.00	5133.00	7000.00	12068.00	12943.00
NA	9340.00	5145.00	7000.00	12068.00	12943.00
NA	9340.00	5016.00	7000.00	12068.00	12943.00
MP not prepared	9340.00	5016.00	7000.00	12068.00	12943.00

59	58	57	56	55	54
HATADIHI	HATADIHI	HATADIHI	HATADIHI	GHASIPURA	GHASIPURA
BAITARANI RIVER SAND BED, JAMBHARA	BAITARANI RIVER SAND BED, HAMBLESWAR	BAITARANI RIVER SAND BED, GIRIGAON	BAITARANI RIVER SAND BED, AMRUTPUR	PAPDIANALA SAND BED	ATA SAND QUARRY
ACTIVE	INACTIVE	INACTIVE	INACTIVE	INACTIVE	NEW
NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON CAPTIVE
237	165	242	162	45	
1689/2080	1225/1240	1146/1	983/989	1393, 1394, 2865	1576
21.30	13	12	15	12	49.68
SAND	SAND	SAND	SAND	SAND	SAND
Gurubrata Khandai	KrushNA ch.Swain	Tapan ku. NAnda	Pradeep Biswal	Diptimayee JeNA	NA
S/o-PanchaNAN Khandai,AT-Solapata,Po-Salania,ps-NAndipada,dist-keonjhar, ph.no-9238712427	S/o-Bandhidhar Swain,AT/PO-BrahmaniGaon,PS-Barang,Dist-Cuttack	S/o-Maheswar NAnda At/Po-Ankula,Ps/Dist-Jajpur, ph.no-9437654935	At-Bancho,Po-ANAndpur, dist-Keonjhar,	w/o-Khageswar jeNA,at-Bhatasira,po-salapada,ps-GHASIPURA,dist-Keonjhar	NA
13.09.2023	NA	04.09.2023	NA	08.12.2021	NA
12.09.2025	NA	03.09.2024	NA	07.12.2026	NA
NA	NA	NA	NA	NA	NA
EC23B0010R138967 DT.18.08.2023	EC24B000R133477, DT.03.02.2024	SIA/OR/MIN/297441/2023 DT.11.05.2023	EC24B0170R5296689 A DT.05.07.2024	2954/SEIAA DT.28.09.2021	NA
86	86	86	86	86	NA
14	16	11	16	5	NA
7.93	10.96	52.98	20.77	5.04	NA
21	21	21	21	21	NA
2	2	5	1	10	NA
19.78	8.56	52.43	43.31	7.03	NA
O/C	O/C	O/C	O/C	O/C	O/C
68960.00	126240.00	97120	121400	34396.00	NA
36806.00	66311.00	54100	64215	28615.00	NA
NA	NA	NA	NA	1,563,617.00	NA
NA	NA	NA	NA	0.00	NA
759,185.00	0.00	11,543,999.00	1,938,520.50	0.00	NA
7361	13260	10820	12843	5723	NA
7361	13260	10820	12843	5723	NA
7361	13260	10820	12843	5723	NA
7361	13260	10820	12843	5723	NA
7361	13260	10820	12843	5723	MP not prepared

HATADIHI TAHASIL

65	64	63	62	61	60
CHAMPUA	CHAMPUA	HATADIHI	HATADIHI	HATADIHI	HATADIHI
DUDHKUNDI SAND BED	PADMAPUR SAND QUARRY	BAITARANI RIVER SAND BED, BANCHO	BAITARANI RIVER SAND BED, AMBO-KARAGOLA	BAITARANI RIVER SAND BED, GOBINDAPUR	BAITARANI RIVER SAND BED, DIMIRIA
ACTIVE	ACTIVE	INACTIVE	INACTIVE	INACTIVE	ACTIVE
NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE
101	118	1039	619, 613	156	218
590	391/1	NA	NA	494/1	1698
7.15	12	15	13	13	13
Sand	Sand	SAND	SAND	SAND	SAND
Sri Pramod kuar munda	Sri Srimanta kumar Tripathy	NA	NA	Gajendara ku.sahoo	Chinmay ku.NAyak
At-Dudhkundi,po-Parsala,via-Jhumpura,Keonjhar,758047	At-Bhusugoan,po-Bhadrasahi,ps-Barbil,Keonjhar,758035	NA	NA	at-sarein,ps-GHASPURA,dist-keonjhar	at-HATADIHI,ps-NAndipada,dist-keonjhar,pin-758083,ph.no.-8658017666
30.08.2022	21.10.2022	NA	NA	NA	4.09.2023
29.08.2027	20.10.2027	NA	NA	NA	03.09.2025
NA	NA	NA	NA	NA	NA
EC22B001OR153787 Dt 22.08.2022	EC22B001OR133111 Dt 29.07.2022	NA	NA	NA	EC23B001OR114019 DT.14.08.2023
85	85	NA	NA	86	86
36	47	NA	NA	12	15
26.423	33.35	NA	NA	28.25	10.84
21	21	NA	NA	21	21
55	55	NA	NA	3	2
4.729	44.41	NA	NA	25.86	32.84
O/C	O/C	O/C	O/C	O/C	O/C
1907	81162	NA	NA	105200.00	105200.00
1644	52182	NA	NA	54854.00	55684.00
NA	0	NA	NA	NA	NA
305418	7672146	NA	NA	NA	NA
233476	10717137	NA	NA	NA	2,631,062.50
1644	20000	NA	NA	10971	11137
1644	20000	NA	NA	10971	11137
1644	20000	NA	NA	10971	11137
1644	20000	NA	NA	10971	11137

CHAMPUA TAHASIL

71	70	69	68	67	66
CHAMPUA	CHAMPUA	CHAMPUA	CHAMPUA	CHAMPUA	CHAMPUA
KRUSHNAPUR SAND QUARRY 2	BHIMPUR SAND QUARRY	BHANDA SAND QUARRY	KALIKAPRASAD SAND BED	SASANGA SAND QUARRY	RIMULI SAND QUARRY
INACTIVE	INACTIVE	ACTIVE	INACTIVE	INACTIVE	ACTIVE
NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE
72	244	181	327	147	435
327	4121/1	796/1	2451	1765	2773
3.32	0.5	0.5	6.5	6.1	4.95
Sand	Sand	Sand	Sand	Sand	Sand
Murari Narayan gupta	Sri Soumya ranjan pahi	Smt Sanghamitra Mandal	Sri Iswar chandra badapanda	Sri Rajesh kumar singh	Sri Toofan kumar brahma
W.NO.-10,Near Barbil Municipality,Barbil, Keonjhar.	Sushila Saw Mill Campus,Nua Sahi, JailRoad,Keonjhar,758001	At/po-Joda,Near IDBI Bank,Pin- 758034	JagnNATHpur ,Behind IDBI Bank keonjhar town,madhapur,keonjhar ,758001	JaganNATHpur,west singhbhum,Jharkhand ,833203	At-Rimuli,po-Rimuli,Keonjhar,758047
15.05.2023	09.06.2021	10.04.2023	01.08.2022	26.02.2021	11.11.2021
14.05.2028	08.06.2026	09.04.2028	31.07.2027	25.02.2026	10.11.2026
NA	NA	NA	NA	NA	NA
EC22B001OR155549 Dt-27.1.2022	10335/SEIAA 17-Dec-2020	EC24B001OR129312 Dt 18.01.2024	EC22B001OR173591 30-Jun-2022	SI/OR/MIN/297024/2023 06-Apr-2023	2816/SEIAA Dt -22.09.2021
85	85	NA	85	85	NA
38	44	NA	37	39	NA
20	1.5	NA	53.9	48.864	NA
21	21	NA	21	22	NA
58	52	NA	58	0	NA
48.8	51.3	NA	17.9	6.977	NA
O/C	O/C	O/C	O/C	O/C	O/C
12820	3000	3030	26300	3243.2	20000
5470	1332	543	20000	1080	4260
NA	NA	NA	NA	NA	NA
NA	NA	1175859	588947	4962140	345220
NA	NA	1254073	211574	1025269	345220
1002	1332	400	1200	1080	1300
1002	1332	400	1200	1080	1300
1002	1332	400	1200	1080	1300
1002	1332	400	1200	1080	1300

77	76	75	74	73	72
CHAMPUA	CHAMPUA	CHAMPUA	CHAMPUA	CHAMPUA	CHAMPUA
SAREI SAND QUARRY	MACMILLANPUR SAND QUARRY	RAMLA SAND QUARRY	SASANGA SAND QUARRY 2	JYOTIPUR SAND QUARRY	MAHISAPAT MATIALGHAT SAND QUARRY
INACTIVE	INACTIVE	INACTIVE	INACTIVE	INACTIVE	INACTIVE
NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE
238	38	261	147	421	327
1/1646	111	1371/1	558	1642	2344
11	6.25	3	12	8	5.85
Sand	Sand	Sand	Sand	Sand	Sand
NA	NA	NA	MD.Shahroz Zeya	Sri MaNash kumar mohanty	Sri Jagadish badapanda
NA	NA	NA	MaulaNAgoda Road,Champua,Kendujhar,Odisha,758041	At/po-Madhapur,Ps-Sukinda,Dist - jajpur,755018	JagnNAthpur ,Behind IDBI Bank keonjhar town,madhapur,keonjhar ,758001
NA	NA	NA	01.08.2022	19.10.2022	30.07.2022
NA	NA	NA	31.07.2027	18.10.2027	29.07.2027
NA	NA	NA	NA	NA	NA
NA	NA	2806/SEIAA Dt-22.09.2021	5128/SEIAA 12-Aug-2022	EC2B001OR110906 Dt-18.07.2022	EC2B001OR126064 Dt-30.06.2022
85	85	85	85	85	85
41	43	40	39	47	37
48.3	15.98	4.5	48.1	16.42	42.1
22	21	22	22	21	21
0	59	2	0	54	58
18.2	17.647	21.8	5.8	11.33	3.8
O/C	O/C	O/C	O/C	O/C	O/C
41367	16546	12140	24700	9117	23670
31350	7590	7879	11750	7873	15500
NA	NA	NA	NA	NA	NA
NA	NA	3412160	2000499	2721167	641934
NA	NA	NA	NA	NA	NA
10450	3000	5300	5250	7800	1240
10450	3000	5300	5250	7800	1240
10450	3000	5300	5250	7800	1240
10450	3000	5300	5250	7800	1240

83	82	81	80	79	78
CHAMPUA	CHAMPUA	CHAMPUA	CHAMPUA	CHAMPUA	CHAMPUA
FULKANEI	RARUANGUDA SAND QUARRY	TIANSIPOSI SAND QUARRY	BHANDA SAND QUARRY 2	BHANDA SAND QUARRY (NALA)	CHENGAJODA SAND QUARRY (NALA)
NEW	NEW	NEW	NEW	NEW	NEW
NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE
207	69	135	181	181	327
727	2	527,526	796	940	51
0.5	6.00	12.00	1.6	1.35	3.12
Sand	Sand	Sand	Sand	Sand	Sand
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
85	NA	85	85	85	85
47	NA	44	45	40	44
1.8	NA	42.53	51.29	49.1	4
21	NA	21	21	21	21
52	NA	59	56	56	52
1.5	NA	0.66	0.89	2	53.9
O/C	NA	O/C	O/C	O/C	O/C
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
3642.171	MP NOT PREPARED	32940	1200	9833.868	22727.14

JHUMPURA TAHASIL

89	JHUMPURA	88	JHUMPURA	87	JHUMPURA	86	JHUMPURA	85	JHUMPURA	84	JHUMPURA
BISHNUPUR SAND BED	KANCHANDUMURIA SAND QUARRY	ARSALA SAND BED	RAJABASA SAND QUARRY	TELI-ARSALA SAND QUARRY	KHENDRA SAND BED	INACTIVE	INACTIVE	INACTIVE	INACTIVE	INACTIVE	INACTIVE
NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE
79	178	401	57	45	273						
1	1971/2192	1	495/554/590	183	2345						
5	2.78	10.25	4.74	2.68	10450.45						
Sand	Sand	Sand	Sand	Sand	Sand						
Sri Nirmal ku. Ojha	Sri Niramal ku. Ojha	JyoshNArani Barik	Sri KrushNA Chandra Mahakud	Sri Anidya Kumar Behera	JyoshNArani Barik						
At-Nuarampas,Po-Badarampas,Dist-Keonjhar, pin-758083 ,Contact No-9937367187	At-Nuarampas,Po-Badarampas,Dist-Keonjhar, pin-758083 ,Contact No-9937367187	At/po-Uncbali, PS-Bamebari, Dist-Keonjhar,758034	At-Bhusugoan,po-Bhadrasahi,ps-Barbil,Keonjhar,758035	At-Jhumpura,po-Jhumpura,ps-Jhumpura, Keonjhar,758031	At/po-Uncbali, PS-Bamebari, Dist-Keonjhar,758034						
01.08.2022	NA	NA	11.05.2022-	01.08.2022-	NA						
31.07.2027	NA	NA	10.05.2027	31.07.2027	NA						
NA	NA	NA	NA	NA	NA						
EC2BOO1OR138658 Dt-30.06.2022	SIA/OR/MIN/288737/2022 21-03-2023	NA	SIA/OR/MIN/299097/2022 27-06-2023	5209/SEIAA Dt-19.08.2022	SIA/OR/MIN/424788/2023 12-05-2023						
85	85	85	85	85	85						
NA	41	33	36	32	33						
NA	17.8	24.8	12.737	58.9	16.97						
NA	21	21	21	21	21						
NA	49	51	54	50	51						
NA	47.6	5.9	30.784	51.9	6.8						
O/C	O/C	O/C	O/C	O/C	O/C						
NA	11250	21480	5961	10850	46130.5						
NA	3510	11454	1888	3100	12360.4						
NA	NA	NA	NA	NA	NA						
536240	NA	NA	702278	140184	NA						
NA	NA	NA	673478	NA	NA						
NA	500	4100	1888	1000	5820						
NA	500	4100	1888	1000	5820						
NA	500	4100	1888	1000	5820						
NA	500	4100	1888	1000	5820						

92	91	90
CHAMPUA	JHUMPURA	JHUMPURA
PARUJIPSI SAND QUARRY	KATALPOSI SAND BED	MANANDA SAND QUARRY
INACTIVE	ACTIVE	INACTIVE
NON-CAPTIVE	NON-CAPTIVE	NON-CAPTIVE
94	111	97, 98
364	1209	22,1628,663,1629
12.00	2.78	9.50
Sand	Sand	Sand
NA	Sri Haladhara Mahanta	NA
NA	At-Katalposi,po-Balibandha,via-Jhumpura,Keonjhar,758031	NA
NA	03.08.2022	NA
NA	02.08.2027	NA
NA	NA	NA
NA	EC22B001OR119684 Dt-30.07.2022	NA
85	85	85
45	34	0
7.90	40.8	0
21	21	0
53	52	0
34.07	42.8	0
O/C	O/C	O/C
NA	10125	NA
NA	5796	NA
NA	NA	NA
NA	7232018	NA
NA	987115	NA
NA	1500	NA

**Annexure-I**

**Details of Sand /M-Sand Sources**

a)

**Rivers:**

River Name/M-Sand plant	Total Stretch of River(In KM)	Type of River (perennial or Non -Perennial)
Baitarani	240Km uptoAnandapur	Perennial
Kangira	40Km	Perennial
Ardei	72.40Km	Perennial
Khairibandhan	152Km	Perennial
Deo	80Km	Perennial
Kanjhari	60Km	Perennial
Sita	26Km	Perennial
Musal	60Km	Perennial
Kusei	80Km	Perennial
Salandi	144Km	Perennial
Bhirol	N/A	Perennial
Mermenda	N/A	Perennial

**b)De-Siltation Location :(Lake/pond/Dams etc.)**

Name	Maintain/controlled by State	Location	District	Tahasil	village	Size(Ha)
Not Applicable in Keonjhar District						

**c) Patta Lands/Khatedari Land:**

Owner	Sy.No	Area(Ha)	District	Tahasil	village	Agricultural land (Yes/No)
Not Applicable in Keonjhar District						

**d) M-Sand Plants:**

Plant	Owner	District	Tahasil	village	Geo-location	Quantity Tonnes/Annum
Not Applicable in Keonjhar District						

## A) Final List Of Potential Mining Lease(Existing &amp; Proposed)

## Lease Details

SL NO	NAME OF TAHASIL	NAME OF SOURCE	KHATA NO	PLOT NO	AREA IN AC	Distance (in K.M) from PA/BR/WC	Distance from forest area (in K.M)	Mining lease within 500 metres (if yes cluster area)	Total excavation in Cum/ Annum considering digging depth max as 6 metres	Mineral to be mined (sand/Bajri/RBM etc.)	Existing/ proposed
1	2	3	6	7	8	9	10	11	12	13	14
1	PATNA	CHEMENA SAND QUARRY	229	1	4.25	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	1504.00	sand	Existing
2	PATNA	DUMURIGODA SAND QUARRY	42	336/1	5.00	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	3102.00	sand	Existing
3	PATNA	ERENDEI SAND QUARRY	356	1513	2.90	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	8000	sand	Existing
4	PATNA	KAINDA SAND QUARRY	245	2403	2.05	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	3000	sand	Existing
5	PATNA	KETANG SAND QUARRY	109	360	15.50	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	6267.00	sand	Existing
6	PATNA	JHARBEDA SAND QUARRY	60	272	4.50	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	1577.00	sand	Existing
7	PATNA	DEOGAON SAND QUARRY	47	261	0.92	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	10489.00	sand	Existing
8	PATNA	DURGADEIPUR SAND QUARRY	45(AAA)	1	3.00	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	1250.00	sand	Existing
9	PATNA	TANDO SAND QUARRY	178	184/2887	52.25	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	15000.00	sand	Existing
10	PATNA	RAIKALA SAND QUARRY	177	598/1366	12.301	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	N/A	sand	Existing
11	PATNA	PATANALI SAND QUARRY	61	583/653	10	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	N/A	sand	Existing
12	PATNA	CHANGUAPADA SAND QUARRY	31	125/1	8	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	N/A	sand	Existing

13	PATNA	KIAPADA SAND QUARRY	100	1	24.45	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	N/A	sand	Proposed
14	PATNA	ANLADIHA SAND QUARRY	39	1	12.36	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	N/A	sand	Proposed
15	PATNA	TRIBINDHA SAND QUARRY	226	2107 1740	22.53	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	N/A	sand	Proposed
16	PATNA	TENTALA SAND QUARRY	141	392	25.7	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	N/A	sand	Proposed
17	PATNA	NUAPADA SAND QUARRY	103	1	12.5	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	N/A	sand	Proposed
18	PATNA	MAHISAMUNDI SAND QUARRY	154	3048	6	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	N/A	sand	Proposed
19	TELKOI	SAMAKOI DOBLAPAL-TELKOI	214	1500	12.72	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	3000.00	sand	Existing
20	TELKOI	BADAKUMUNDA SAND QUARRY	26	53,54,245	7.10	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	1958.40	sand	Existing
21	TELKOI	BENAMUNDA , BRAMHANIKANSA SAND QUARRY	184 62	75,335,337, 338,362	2.150 9.87	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	2800.00	sand	Existing
22	TELKOI	SAMAKOI RIVER, VILLAGE BADAKUMUNDU	26	53 54 245	1.8 188 3.42	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	N/A	sand	Proposed
23	TELKOI	SAMAKOI RIVER, VILLAGE BETAKHOLI	36	1 230/1	4.56 1.19	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	N/A	sand	Proposed
24	TELKOI	SAMAKOI RIVER, VILLAGE KARADANG	380	2267	8.8	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	N/A	sand	Proposed
25	TELKOI	SAMAKOI RIVER, VILLAGE CHAKRADHAR	7	5/37/1	11.09	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	N/A	sand	Proposed
26	TELKOI	SAMAKOI RIVER, VILLAGE RAGADA	91	1278/1	11.09	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	N/A	sand	Proposed
27	TELKOI	CHANDAN KULA NALA, VILLAGE- KARANGAPAL	40	226 227	5.28 0.39	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	N/A	sand	Proposed

28	TELKOI	SAMAKOI SAND QUARRY, TELKOI	329	205,1257, 2608	38.45	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	1500.00	sand	Existing
29	GHATAGAON	KUNDAPITHA SAND BED	178	1,7/1	11.28,1.2 2	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	2000.00	sand	Existing
30	SAHARPADA	MAYURPANKHA SAND QUARRY	57	594/1	12.04	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	5000.00	sand	Existing
31	SAHARPADA	UDAYAPUR SAND QUARRY	696	6087/1	7.7	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	4000.00	sand	Existing
32	SAHARPADA	MOUDIPA SAND QUARRY	94	1076/1	11.8	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	5000.00	sand	Existing
33	SAHARPADA	GORANDIJODI SAIRAT , DEO RIVER	236	215 269	6.9	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	N/A	sand	Proposed
34	SAHARPADA	MANGALPUR SAND SAIRAT, BAITARANI RIVER	84	1 1/984	6.14	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	N/A	sand	Proposed
35	ANANDPUR	BAITARANI RIVER SAND BED,BUDHIKUD	113	1051/1132/1	12.5	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	17502.00	sand	Existing
36	ANANDPUR	KUSEI RIVER SAND BED,BELABAHALI TO BHATSIRA	607, 231	1288, 1671	3.50, 15.00	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	4420.00	sand	Existing
37	ANANDPUR	BAITARANI RIVER SAND,PANCHUPALLY	1115	6203	12.50	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	8585.00	sand	Existing
38	ANANDPUR	BAITARANI RIVER SAND BED,GOUDADIHA	217	1	12.5	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	21445.00	sand	Existing
39	ANANDPUR	BAITARANI RIVER SAND BED,TUKUNA	111	1455	7.155	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	19020.00	sand	Existing
40	ANANDPUR	BAITARANI RIVER SAND BED ,AMARANGA	240	1315	32	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	20650.00	sand	Existing
41	ANANDPUR	PANCHUPALLY	1115	281	111.2	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	N/A	sand	Proposed
42	ANANDPUR	GUHALIA	221	1	52.25	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	N/A	sand	Proposed
43	ANANDPUR	BAITARANI RIVER SAND BED,ANANDAPUR	6520	3,377	20.47	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	10368.00	sand	Existing

44	GHASIPURA	REMAL SAND BED, ANLAPAL	155	229	2	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	790.00	sand	Existing
45	GHASIPURA	BASANTAPURA SAND QUARRY	620	4051	9.98	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	1850.00	sand	Existing
46	GHASIPURA	NAPANGA SAND QUARRY	232	219/894	14	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	2400.00	sand	Existing
47	GHASIPURA	REMAL SAND BED, KATHAPAL TO DARADIPAL	335, 335, 504	245, 892/1, 550	4.90, 5.66, 1.94	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	2361.00	sand	Existing
48	GHASIPURA	BAITARANI RIVER SAND BED , SALADEI	420	2000/1	12.3	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	12943.00	sand	Existing
49	GHASIPURA	BAITARANI SAND BED, TALAGAON	269	1	12.3	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	12068.00	sand	Existing
50	GHASIPURA	KUSHEI RIVER SAND BED, DEOGAON	352	1297/1	11.5	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	7000.00	sand	Existing
51	GHASIPURA	BAITARANI SAND BED , TAMPO	221	705, 706	12.50 12.50	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	5016.00	sand	Existing
52	GHASIPURA	REMAL SAND , BED, KHAILO	216	420, 358	7.50, 5.00	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	9340.00	sand	Existing
53	GHASIPURA	MADHUKESHARI SAND QUARRY	261	1516	12	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	N/A	sand	Proposed
54	GHASIPURA	ATA SAND QUARRY		1576	49.68	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	N/A	sand	Proposed
55	GHASIPURA	PAPUDIANALA SAND BED	45	1393, 1394, 2865	12	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	5723	sand	Existing
56	HATADIHI	BAITARANI RIVER SAND BED, AMRUTPUR	162	983/989	15	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	12843	sand	Existing
57	HATADIHI	BAITARANI RIVER SAND BED, GIRIGAON	242	1146/1	12	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	10820	sand	Existing
58	HATADIHI	BAITARANI RIVER SAND BED, HABALESWAR	165	1225/1240	13	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	13260	sand	Existing
59	HATADIHI	BAITARANI RIVER SAND BED, JAMBHARA	237	1689/2080	21.30	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	7361	sand	Existing

60	HATADIHI	BAITARANI RIVER SAND BED, DIMIRIA	218	1698	13	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	11137	sand	Existing
61	HATADIHI	BAITARANI RIVER SAND BED, GOBINDAPUR	156	494/1	13	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	10971	sand	Existing
62	HATADIHI	BAITARANI RIVER SAND BED, AMBO-KARAGOLA	619, 613	N/A	13	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	N/A	sand	Existing
63	HATADIHI	BAITARANI RIVER SAND BED, BANCHO	1039	N/A	15	Kuldiha Wild Life Sanctuary more than 10 km	Kuldiha Wild Life Sanctuary more than 10 km	N/A	N/A	sand	Existing
64	CHAMPUA	PADMAPUR SAND QUARRY	118	391/1	12	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	20000	sand	Existing
65	CHAMPUA	DUDHKUNDI SAND BED	101	590	7.15	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	1644	sand	Existing
66	CHAMPUA	RIMULI SAND QUARRY	435	2773	4.95	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	1300	sand	Existing
67	CHAMPUA	SASANGA SAND QUARRY	147	1765	6.1	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	1080	sand	Existing
68	CHAMPUA	KALIKAPRASAD SAND BED	327	2451	6.5	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	1200	sand	Existing
69	CHAMPUA	BHANDA SAND QUARRY	181	796/1	0.5	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	400	sand	Existing
70	CHAMPUA	BHIMPUR SAND QUARRY	244	4121/1	0.5	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	1332	sand	Existing
71	CHAMPUA	KRUSHNAPUR SAND QUARRY 2	72	327	3.32	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	1002	sand	Existing
72	CHAMPUA	MAHISAPAT MATIALGHAT SAND QUARRY	327	2344	5.85	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	1240	sand	Existing
73	CHAMPUA	JYOTIPUR SAND QUARRY	421	1642	8	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	7800	sand	Existing
74	CHAMPUA	SASANGA SAND QUARRY 2	147	558	12	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	5250	sand	Existing
75	CHAMPUA	RAMLA SAND QUARRY	261	1371/1	3	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	5300	sand	Existing

76	CHAMPUA	MACMILLANPUR SAND QUARRY	38	111	6.25	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	3000	sand	Existing
77	CHAMPUA	SAREI SAND QUARRY	238	1/1646	11	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	10450	sand	Existing
78	CHAMPUA	CHENGAJODA SAND QUARRY (NALA)	327	51	3.12	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	N/A	sand	Proposed
79	CHAMPUA	BHANDA SAND QUARRY (NALA)	181	940	1.35	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	N/A	sand	Proposed
80	CHAMPUA	BHANDA SAND QUARRY 2	181	796	1.6	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	N/A	sand	Proposed
81	CHAMPUA	TIANSIPOS SAND QUARRY	135	527,526	12.00	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	N/A	sand	Proposed
82	CHAMPUA	FULKANEI	207	727	0.5	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	N/A	sand	Proposed
83	JHUMPURA	KATALPOSI SAND BED	111	1209	2.78	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	1500	sand	Existing
84	JHUMPURA	MANANDA SAND QUARRY	97, 98	1628, 1629, 22, 663	9.50	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	N/A	sand	Existing
85	JHUMPURA	KHENDRA SAND BED	273	2345	10450.5	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	5820	sand	Existing
86	JHUMPURA	TELI-ARSALA SAND QUARRY	45	183	2.68	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	1000	sand	Existing
87	JHUMPURA	RAJABASA SAND QUARRY	57	495/554/590	4.74	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	1888	sand	Existing
88	JHUMPURA	ARSALA SAND BED	401	1	10.25	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	4100	sand	Existing
89	JHUMPURA	KANCHANDUMURIA SAND QUARRY	178	1971/2192	2.78	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	500	sand	Existing
90	JHUMPURA	BISHNUPUR SAND BED	79	1	5	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	N/A	sand	Existing
91	CHAMPUA	RARUANGUDA SAND QUARRY	69	2	6	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	N/A	sand	Existing

92	CHAMPUA	PARUDIPOSI SAND QUARRY	94	364	14.55	Similipal Wild Life Sanctuary More than 10 km	Similipal Wild Life Sanctuary More than 10 km	N/A	N/A	sand	Existing
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**B) Patta Land /khatadari Land :( existing & proposed)**

Owner	Sy.No	Area	District	Tahasil	Village	Total Reserve(MT)	Total Mineral to be mined (MT)	Existing / Proposed
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Not Applicable for Keonjhar District

**C) De-Siltation Location:(Lakes/Ponds/Dams etc.) (Existing & Proposed)**

Name of Reservoir /Dams	Maintain/Controlled by State Govt./PSU etc.	Location	District	Tahasil	Village	Size(Ha)	Quantity MT/Year	Existing / Proposed
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Not Applicable for Keonjhar District

**D) M-Sand Plants:(Existing & Proposed)**

Plant Name	Owner	District	Tahasil	Village	Geo-location	Quantity Tonnes /Annum	Existing / Proposed
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Not Applicable for Keonjhar District

**Cluster & Contiguous Cluster Details:****Clusters:**

River Name	Cluster No.	Lease No	Location(River Bed/Patta Land)	Village	Area(in Ha)	Total excavation(Ton)	Total Mineral excavation(Ton)
No sand cluster mining in keonjhar district							

**Contiguous Cluster :**

River Name	Contiguous Cluster no.	Cluster No.	Number of leases in the cluster	Location(River Bed/Patta Land)	Distance between clusters	Village	Area of Cluster(Ha)	Total Mineral excavation(Ton)
No contiguous Cluster situation available in keonjhar district								

## Final Transportation Routes For Individual Leases and Leases In Cluster

Name of the tahasil	Lease No.	Transportation Route No.	No. of tippers/day of lease	No of tippers/day of all the lease on route	Length of route in Km.	Type of road (black topped/unpaved)	Recommendation for road (black topped/unpaved)	The road will be constructed by Govt/Lease Owner	Route Map and Location
1	2	3	4	5	6	7	8	9	10
PATNA	CHEMENA SAND QUARRY	Govt. Road	2	2	0.2	Unpaved	Unpaved	Lease Owner	
PATNA	DUMURIGODA SAND QUARRY	Govt. Road	3	3	0.4	Unpaved	Unpaved	Lease Owner	
PATNA	ERENDEI SAND QUARRY	Govt. Road	3	3	0.6	Unpaved	Unpaved	Lease Owner	
PATNA	KAINDA SAND QUARRY	Govt. Road	3	3	0.8	Unpaved	Unpaved	Lease Owner	
PATNA	KETANG SAND QUARRY	Govt. Road	7	7	1	Unpaved	Unpaved	Lease Owner	
PATNA	JHARBEDA SAND QUARRY	Govt. Road	4	4	1	Unpaved	Unpaved	Lease Owner	
PATNA	DEOGAON SAND QUARRY	Govt. Road	8	8	0.5	Unpaved	Unpaved	Lease Owner	
PATNA	DURGADEIPUR SAND QUARRY	Govt. Road	4	4	0.4	Unpaved	Unpaved	Lease Owner	
PATNA	TANDO SAND QUARRY	Govt. Road	16	16	0.6	Unpaved	Unpaved	Lease Owner	
PATNA	RAIKALA SAND QUARRY	Govt. Road	N/A	N/A	N/A	Unpaved	Unpaved	Lease Owner	
PATNA	PATANALI SAND QUARRY	Govt. Road	12	12	0.9	Unpaved	Unpaved	Lease Owner	
PATNA	CHANGUAPADA SAND QUARRY	Govt. Road	8	8	1.2	Unpaved	Unpaved	Lease Owner	
TELKOI	SAMAKOI SAND QUARRY, TELKOI	Govt. Road	8	8	1.5	Unpaved	Unpaved	Lease Owner	
TELKOI	SAMAKOI DOBLAPAL-TELKOI	Govt. Road	8	8	0.9	Unpaved	Unpaved	Lease Owner	
TELKOI	BADAKUMUNDA SAND QUARRY	Govt. Road	6	6	1.1	Unpaved	Unpaved	Lease Owner	
TELKOI	BENAMUNDA , BRAMHANIKANSA SAND QUARRY	Govt. Road	6	6	0.8	Unpaved	Unpaved	Lease Owner	
GHATAGAON	KUNDAPITHA SAND BED	Govt. Road	N/A	N/A	N/A	Unpaved	Unpaved	Lease Owner	
SAHARPADA	MAYURPANKHA SAND QUARRY	Govt. Road	12	12	0.2	Unpaved	Unpaved	Lease Owner	
SAHARPADA	UDAYAPUR SAND QUARRY	Govt. Road	10	10	0.8	Unpaved	Unpaved	Lease Owner	
SAHARPADA	MOUDIPA SAND QUARRY	Govt. Road	12	12	0.9	Unpaved	Unpaved	Lease Owner	
PATNA	KIAPADA SAND QUARRY	Govt. Road	N/A	N/A	N/A	Unpaved	Unpaved	Lease Owner	
PATNA	ANLADIHA SAND QUARRY	Govt. Road	N/A	N/A	N/A	Unpaved	Unpaved	Lease Owner	
PATNA	TRIBINDHA SAND QUARRY	Govt. Road	N/A	N/A	N/A	Unpaved	Unpaved	Lease Owner	
PATNA	TENTALA SAND QUARRY	Govt. Road	N/A	N/A	N/A	Unpaved	Unpaved	Lease Owner	
PATNA	NUAPADA SAND QUARRY	Govt. Road	N/A	N/A	N/A	Unpaved	Unpaved	Lease Owner	
PATNA	MAHISAMUNDI SAND QUARRY	Govt. Road	N/A	N/A	N/A	Unpaved	Unpaved	Lease Owner	
SAHARPADA	GORANDIJODI SAIRAT , DEO RIVER	Govt. Road	N/A	N/A	0.8	Unpaved	Unpaved	Lease Owner	

SAHARPADA	MANGALPUR SAND SAIRAT, BAITARANI RIVER	Govt. Road	N/A	N/A	1.5	Unpaved	Unpaved	Lease Owner	
TELKOI	SAMAKOI RIVER, VILLAGE BADAKUMUNDU	Govt. Road	N/A	N/A	1.7	Unpaved	Unpaved	Lease Owner	
TELKOI	SAMAKOI RIVER, VILLAGE BETAKHOLI	Govt. Road	N/A	N/A	0.8	Unpaved	Unpaved	Lease Owner	
TELKOI	SAMAKOI RIVER, VILLAGE KARADANG	Govt. Road	N/A	N/A	0.6	Unpaved	Unpaved	Lease Owner	
TELKOI	SAMAKOI RIVER, VILLAGE CHAKRADHAR	Govt. Road	N/A	N/A	0.2	Unpaved	Unpaved	Lease Owner	
TELKOI	SAMAKOI RIVER, VILLAGE RAGADA	Govt. Road	N/A	N/A	0.3	Unpaved	Unpaved	Lease Owner	
TELKOI	CHANDAN KULA NALA, VILLAGE-KARANGAPAL	Govt. Road	N/A	N/A	0.7	Unpaved	Unpaved	Lease Owner	
ANANDPUR	BAITARANI RIVER SAND BED,BUDHIKUD	Govt. Road	18	18	0.9	Unpaved	Unpaved	Lease Owner	
ANANDPUR	KUSEI RIVER SAND BED,BELABAHALI TO BHATSIRA	Govt. Road	12	12	0.4	Unpaved	Unpaved	Lease Owner	
ANANDPUR	BAITARANI RIVER SAND,PANCHUPALLY	Govt. Road	16	16	0.6	Unpaved	Unpaved	Lease Owner	
ANANDPUR	BAITARANI RIVER SAND BED,GOUDADIHA	Govt. Road	16	16	0.8	Unpaved	Unpaved	Lease Owner	
ANANDPUR	BAITARANI RIVER SAND BED,TUKUNA	Govt. Road	18	18	1	Unpaved	Unpaved	Lease Owner	
ANANDPUR	BAITARANI RIVER SAND BED ,AMARANGA	Govt. Road	14	14	1	Unpaved	Unpaved	Lease Owner	
ANANDPUR	PANCHUPALLY	Govt. Road	N/A	N/A	N/A	Unpaved	Unpaved	Lease Owner	
ANANDPUR	GUHALIA	Govt. Road	N/A	N/A	N/A	Unpaved	Unpaved	Lease Owner	
ANANDPUR	BAITARANI RIVER SAND BED,ANANDAPUR	Govt. Road	12	12	0.6	Unpaved	Unpaved	Lease Owner	
GHASIPURA	REMAL SAND BED, ANLAPAL	Govt. Road	10	10	0.8	Unpaved	Unpaved	Lease Owner	
GHASIPURA	BASANTAPURA SAND QUARRY	Govt. Road	6	6	1.2	Unpaved	Unpaved	Lease Owner	
GHASIPURA	NAPANGA SAND QUARRY	Govt. Road	N/A	N/A	N/A	Unpaved	Unpaved	Lease Owner	
GHASIPURA	REMAL SAND BED, KATHAPAL TO DARADIPAL	Govt. Road	N/A	N/A	N/A	Unpaved	Unpaved	Lease Owner	
GHASIPURA	BAITARNI RIVER SAND BED , SALADEI	Govt. Road	10	10	0.2	Unpaved	Unpaved	Lease Owner	
GHASIPURA	BAITARANI SAND BED,TALAGAON	Govt. Road	8	8	0.8	Unpaved	Unpaved	Lease Owner	
GHASIPURA	KUSHEI RIVER SAND BED,DEOGAON	Govt. Road	8	8	0.9	Unpaved	Unpaved	Lease Owner	

GHASIPURA	BAITARANI SAND BED , TAMPO	Govt. Road	8	8	1.5	Unpaved	Unpaved	Lease Owner	
GHASIPURA	REMAL SAND , BED, KHAILO	Govt. Road	6	6	1.6	Unpaved	Unpaved	Lease Owner	
GHASIPURA	MADHUKESHARI SAND QUARRY	Govt. Road	N/A	N/A	N/A	Unpaved	Unpaved	Lease Owner	
GHASIPURA	PAPUDIANALA SAND BED	Govt. Road	4	4	0.2	Unpaved	Unpaved	Lease Owner	
GHASIPURA	ATA SAND QUARRY	Govt. Road	NA	NA	NA	Unpaved	Unpaved	Lease Owner	
HATADIHI	BAITARANI RIVER SAND BED, AMRUTPUR	Govt. Road	8	8	0.8	Unpaved	Unpaved	Lease Owner	
HATADIHI	BAITARANI RIVER SAND BED, GIRIGAON	Govt. Road	12	12	0.9	Unpaved	Unpaved	Lease Owner	
HATADIHI	BAITARANI RIVER SAND BED, HABALESWAR	Govt. Road	10	10	1.5	Unpaved	Unpaved	Lease Owner	
HATADIHI	BAITARANI RIVER SAND BED, JAMBHARA	Govt. Road	10	10	1.6	Unpaved	Unpaved	Lease Owner	
HATADIHI	BAITARANI RIVER SAND BED, DIMIRIA	Govt. Road	12	12	12	Unpaved	Unpaved	Lease Owner	
HATADIHI	BAITARANI RIVER SAND BED, GOBINDAPUR	Govt. Road	10	10	0.8	Unpaved	Unpaved	Lease Owner	
HATADIHI	BAITARANI RIVER SAND BED, AMBO-KARAGOLA	Govt. Road	N/A	N/A	N/A	Unpaved	Unpaved	Lease Owner	
HATADIHI	BAITARANI RIVER SAND BED, BANCHO	Govt. Road	N/A	N/A	N/A	Unpaved	Unpaved	Lease Owner	
CHAMPUA	PADMAPUR SAND QUARRY	Govt. Road	6	6	0.8	Unpaved	Unpaved	Lease Owner	
CHAMPUA	DUDHKUNDI SAND BED	Govt. Road	4	4	1.5	Unpaved	Unpaved	Lease Owner	
JHUMPURA	KATALPOSI SAND BED	Govt. Road	4	4	1.7	Unpaved	Unpaved	Lease Owner	
CHAMPUA	RIMULI SAND QUARRY	Govt. Road	4	4	0.8	Unpaved	Unpaved	Lease Owner	
CHAMPUA	SASANGA SAND QUARRY	Govt. Road	6	6	0.6	Unpaved	Unpaved	Lease Owner	
CHAMPUA	KALIKAPRASAD SAND BED	Govt. Road	4	4	0.2	Unpaved	Unpaved	Lease Owner	
CHAMPUA	BHANDA SAND QUARRY	Govt. Road	3	3	0.3	Unpaved	Unpaved	Lease Owner	
CHAMPUA	BHIMPUR SAND QUARRY	Govt. Road	4	4	0.7	Unpaved	Unpaved	Lease Owner	
CHAMPUA	KRUSHNAPUR SAND QUARRY 2	Govt. Road	2	2	0.9	Unpaved	Unpaved	Lease Owner	
CHAMPUA	MAHISAPAT MATIALGHAT SAND QUARRY	Govt. Road	4	4	1.1	Unpaved	Unpaved	Lease Owner	
JHUMPURA	KHENDRA SAND BED	Govt. Road	4	4	1.3	Unpaved	Unpaved	Lease Owner	
JHUMPURA	TELI-ARSALA SAND QUARRY	Govt. Road	5	5	1.5	Unpaved	Unpaved	Lease Owner	
JHUMPURA	RAJABASA SAND QUARRY	Govt. Road	4	4	1.7	Unpaved	Unpaved	Lease Owner	
JHUMPURA	ARSALA SAND BED	Govt. Road	N/A	N/A	N/A	Unpaved	Unpaved	Lease Owner	
JHUMPURA	KANCHANDUMURIA SAND QUARRY	Govt. Road	2	2	0.6	Unpaved	Unpaved	Lease Owner	
JHUMPURA	BISHNUPUR SAND BED	Govt. Road	4	4	0.2	Unpaved	Unpaved	Lease Owner	
CHAMPUA	JYOTIPUR SAND QUARRY	Govt. Road	5	5	0.3	Unpaved	Unpaved	Lease Owner	

CHAMPUA	SASANGA SAND QUARRY 2	Govt. Road	7	7	0.7	Unpaved	Unpaved	Lease Owner	
CHAMPUA	RAMLA SAND QUARRY	Govt. Road	2	2	0.6	Unpaved	Unpaved	Lease Owner	
CHAMPUA	MACMILLANPUR SAND QUARRY	Govt. Road	4	4	0.2	Unpaved	Unpaved	Lease Owner	
JHUMPURA	MANANDA SAND QUARRY	Govt. Road	N/A	N/A	N/A	Unpaved	Unpaved	Lease Owner	
CHAMPUA	SAREI SAND QUARRY	Govt. Road	N/A	N/A	N/A	Unpaved	Unpaved	Lease Owner	
CHAMPUA	CHENGAJODA SAND QUARRY (NALA)	Govt. Road	N/A	N/A	N/A	Unpaved	Unpaved	Lease Owner	
CHAMPUA	BHANDA SAND QUARRY (NALA)	Govt. Road	N/A	N/A	N/A	Unpaved	Unpaved	Lease Owner	
CHAMPUA	BHANDA SAND QUARRY 2	Govt. Road	N/A	N/A	N/A	Unpaved	Unpaved	Lease Owner	
CHAMPUA	TIANSIPOSII SAND QUARRY	Govt. Road	N/A	N/A	N/A	Unpaved	Unpaved	Lease Owner	
CHAMPUA	FULKANEI	Govt. Road	N/A	N/A	N/A	Unpaved	Unpaved	Lease Owner	
CHAMPUA	PARUDIPOSII SAND QUARRY	Govt. Road	N/A	N/A	N/A	Unpaved	Unpaved	Lease Owner	
CHAMPUA	RARUANGUDA SAND QUARRY	Govt. Road	N/A	N/A	N/A	Unpaved	Unpaved	Lease Owner	

Cluster No.	Transportation Route No.	No. of tippers/day of lease	No of tippers/day of all the lease on route	Length of route in Km.	Type of road (black topped/unpaved)	Recommendation for road (black topped/unpaved)	The road will be constructed by Govt/Lease Owner	Route Map and Location
No cluster approach of sand sources in keonjhar District								



Executive Engineer, Irrigation Division  
Keonjhar



Superintendent Engineer, Irrigation Division  
Anandapur



Mining Officer Cum Competent Authority  
Keonjhar Sub division (Member Convenor)



Mining Officer Cum Competent Authority  
Anandapur Sub-Division



Mining Officer Cum Competent Authority  
Champua Sub-Division



Geologist  
JDG Office, Keonjhar



Deputy Director of Mines  
Joda



Deputy Director of Mines  
Keonjhar



ACF  
Sader Sub-Division Keonjhar



ACF  
Anandapur Sub-Division Keonjhar



ACF  
Champua Sub-Division Keonjhar



Regional Officer  
SPCB, Keonjhar



Sub Collector  
Anandapur



Sub Collector  
Keonjhar



Sub Collector  
Champua



Collector Cum District Magistrate  
Keonjhar