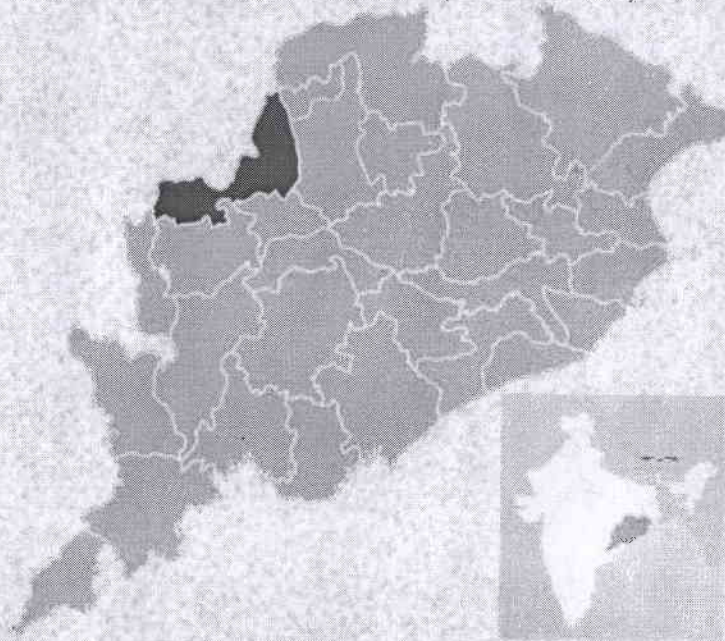




DISTRICT SURVEY REPORT (DSR) OF BARGARH DISTRICT, ODISHA ON SAND MINING / RIVER BED MINING

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



**DISTRICT ADMINISTRATION
BARGARH, ODISHA**

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SUB-COLLECTOR
BARGARH

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Addl. Jt. Magistrate
Bargarh

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Collector, Bargarh

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Point No.	DESCRIPTION	Page No.
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In addition to the above points report contains the following,

(a) Annexure-I

- The list of mining leases in the district with location, area, and period of validity
- List of proposed sources of the district

LIST OF PLATES

SI No.	DESCRIPTION	Plate No.
01	Index Map of the District	PLATE-I
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 2/6/2020
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 BARGARH

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 Collector, Bargarh

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 2/6/2020
 Asst. Conservator of Forest
 Bargarh Forest Division
 Bargarh

PREFACE

The Erstwhile Ministry of Environment and Forests(MoEF), (the Government of India, made Environmental Clearance (EC) for mining of minerals mandatory through its Notification of 27th January, 1994 under the provisions of Environment Protection Act, 1986. Keeping in view the experience gained in environmental clearance process over a period of one decade, the Ministry came out with Environmental Impact Notification, SO 1533 (E), dated 14th September 2006. The Ministry of Environment, Forests & Climate Change (MoEF & CC), Government of India had amended the said vide notification S.O. 141(E) Dated 15th January, 2016. Now again Ministry of Environment, Forests & Climate Change (MoEF & CC), Government of India amended the notification.

S.O. 141(E) Dated 15th January, 2016 vide S.O. 3611(E) Dated 25th July, 2018. It has been made mandatory to obtain environmental clearance for different kinds of development projects as listed in Appendix-X of the Notification.

Further, in pursuance to the order of Hon'ble Supreme Court dated the 27th February, 2012 in I.A. No.12- 13 of 2011 in Special Leave Petition (C) No.19628-19629 of 2009, in the matter of Deepak Kumar etc. Vs. State of Haryana and Others etc., 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 January, 2015 in the matter regarding sand mining has directed for making a policy on environmental clearance for mining leases in cluster for minor Minerals, The Ministry of Environment, Forest and Climate Change in consultation with State governments has prepared Guidelines on Sustainable Sand Mining detailing the provisions on environmental clearance for cluster, creation of District Environment Impact Assessment Authority(DEIAA) and proper monitoring of minor mineral mining using information technology and information


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technology enabled services to track the mined out material from source to destination.

The DEIAA and DEAC will scrutinize and recommend the prior environmental clearance of mining of minor minerals on the basis of District Survey Report. This will be a model and guiding document which is a compendium of available mineral resources, geographical set up, environmental and ecological set up of the district and replenishment of minerals and is based on data of various departments, published reports, journals and websites.

The District Survey Report (DSR) shall form the basis for application for environment clearance, preparation of reports and appraisal of projects. The Report will be updated every five years.

Accordingly, a survey has been carried out by the **District Level Environment Impact Assessment Authority (DEIAA), Bargarh** with the assistance of Geology and Mining Department and involvement all other related Departments like Revenue Department, Irrigation Department, Forest Department, etc. in the district as per the MoEF, New Delhi, notification S.O. 141(E) dated 15th January 2016 to prepare the District survey Report (DSR) of Bargarh District (For Sand) in the year 2019. District Survey Report of Sand mining has been prepared in accordance with *Clause-I of Appendix X* of the said notification.

OBJECTIVES

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

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


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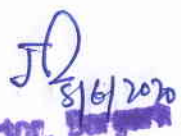
01. INTRUDUCTION.

Bargarh is a district on the Western border of Orissa. Prior to 1992, it was a subdivision of Sambalpur district. Bargarh District formed on the 1st April 1993 being devided from Sambalpur District. It is one of the illustrious District of Odisha. Bargarh has been named after the headquarters town Bargarh situated on the left bank of the Jirariver. The town is on the National Highway No.6 and located at 59 km to the west of Sambalpur district. It is also served by the D.B.K railway running from Jharsuguda to Titlagarh. The railway station is about 3 kms off the town. A meter gauge railway line connects Bargarh with the lime stone quarry at Dunguri. The main Hirakud canal passes through the town and is known as the Bargarh canal. Bargarh District lies on the western most corner of Odisha between 20 degree 43' to 21 degree 41' north latitude and 82 degree 39' to 83 degree 58' east longitude. The District is surrounded by Chhatisgarh state on the north, Sambalpur District on the east, Balangir and Subarnapur on the south and Nuapada District on the west. The original name of the place was Baghar Kota as known from the inscription of the 11th century AD. It was called Bargarh probably from the time of BalaramDev the first Chouhan Raja of Sambalpur who made it his head quarters for some time and constructed a big fort for it's protection. Narayan Singh the last Chouhan Raja granted this place in Mauzi (free hold) to two Brahmin brothers Krushna Das and Narayan Das, sons of Baluki Das who was killed in action by the Gond rebels led by Bandhy Ray and Mahapatra Ray. The grant is popularly known as Sira-kata(head-cutting) grant.

To know the history of the newly formed Bargarh district one cannot ignore the history of undivided Sambalpur district, because Bargarh was one of the subdivisions of old Sambalpur district. This district lies at the close proximity of Sambalpur subdivision separated by the Mahanadi river. The Chouhans,were the most powerful and ruled over a cluster of 18 states in western Orissa and eastern part of Madhya Pradesh. The Chauhan states which crumbled by the British Imperialism, lapsed to the East India


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Bargarh


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Company in 1849 when the last Raja Narayan Singh died without any issue. The Principal Assistant of the British Agent for the south east frontier having his headquarters at Ranchi took over the rein of administration of these states. Prior to 1905, Sambalpur and Bargarh sub- divisions were part of present Chhatisgarh state (erstwhile Central province). In 1936, separate province of Orissa was formed. In the year 1948, the ex-state areas of Bamra and Rairakhol were added to the district of Sambalpur. In the year 1969 a new sub-division, Padmapur was created constituting the areas of Bijepur, Gaisilet, Jagadalpur, Melchhamunda, Padmapur, Paikamal and Sohela Police Stations of old Bargarh sub-division. Keeping the smooth administration and effective implementation of developmental programmes in view, 13 districts of Orissa were divided into 30 districts in the years 1992, 1993 and 1994. By this process, the erstwhile Sambalpur district was divided into four districts namely Sambalpur, Jharsuguda, Bargarh and Debagarh. Bargarh district was carved out taking the areas of two sub-divisions, namely, Bargarh and Padmapur from the erstwhile district of Sambalpur as per the Government of Orissa Notification No.14218/R. dated 27.03.1993. The area of Sambalpur district was 17516.00 sq.km as per the 1991 Census and that of Bargarh was 5831.57 sq.km. As such, Bargarh district holds 33.29 percent of the total area of undivided Sambalpur district.

02. OVERVIEW OF MINING ACTIVITY IN THE DISTRICT.

There is a good potential of ordinary stone & Sand in the district, also there is noticeable quantity of dolomite & lime stone deposit found within the district, a few decorative stone & quartzite deposits also reported within the district.

03. LIST OF MINING LEASES IN THE DISTRICT WITH LOCATION, AREA & PERIOD OF VALIDITY.

**All required Lease details are given in the format,
Please refer (Annexure-I, page no. 34 to 55).**


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04. DETAILS OF ROYALTY OR REVENUE RECEIVED IN LAST THREE YEARS FOR SAND.

REVENUE COLLECTED FOR LAST THREE YEARS					
Sl no.	Name of tahasil	Name of Source	Revenue Collected for last three years (in Rs)		
			2016-17	2017-18	2018-19
1	Attabira	Jhankabahal Sand bed	233000	10000	10000
2		Jhilinda Sand bed		72000	61000
3	Bargarh	Bausenpali sand bed -B	73710	73720	----
4		Bausenpali danta river sand bed- C	36750		----
5		Jamurda danta river sand bed(B)	47040	----	----
6		Barahguda danta river sand bed- A	74250	90955	----
7		Barahguda danta river sand bed- B	92688	----	----
8		Zeera river sand bed- C	102974	----	----
9		Zeera river sand bed -D	103359	----	----
10		Dang grisulnala sand bed -A	60638	----	----
11		Dang grisulnala sand bed- D	64008		----
12		Dang grisulnala sand bed-E	73500	73500	----
13		Bargarh zeera river sand bed -A	77238	----	----
14		Bargarh zeera river sand bed -B	101430	101357	----
15		Bargarh zeera river sand bed- C	104738	----	----
16		Rungunia zeera river sand bed -A	171542	----	----
17		Kuruan danta river sand bed	66623	66615	----
18	Sayan zeera river sand bed -A	50000	----	----	
19	Barpali	Baramkela sand bed	50,000	20,000
20	Bhatli	kamgaon sand bed		10500	70000
21	Bheden	Jandol sand quarry	54,300	35,000	86,837
22		Dhubenpali(B) sand quarry	87,144	1,60,000	1,08,699
23		Deshbhatli sand quarry	1,48,174	1,18,657	2,20,000
24		Sankrida (B) sand quarry	1,24,093	95,000	80,000
25		Sankrida (C) sand quarry	1,07,860	65,000	75,000
26		Apamara sand quarry	1,13,115	20,000	-
27		Kutpali sand quarry			3,03,820

District Survey Report (Sand) Bargarh, Odisha 5 | Page


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28		Achhandapali(B) sand quarry			1,99,985
29	Bijepur	Jaring Sand Bed	192282	192282	19282
30		Talpadar Sand Bed	-	27715	11860
31	Gaisilet	Bheluapadar Sand	317559	185000	100000
32	Jharbandh	Jagdalpur Sand Quarry	46154.00	-	160000
33		Lergaon Sand Quarry	50375.00	-	-
34		Balangir Sand Quarry	66546.00	60000.00	-
35		Turla Sand Quarry	-	-	42785.00
36		Badanki Sand Quarry	-	-	123595.00
37	Padampur	Firupali Sand Bed	119939	0	0
38		Singhanpur Sand Bed	99946	103200	105600
39		Deoli Sand Bed	178485	0	0
40		Lakhamara Sand Bed	0	63640	0
41		Kumunibahali Sand Bed (A) (Upside of Mahulpali Bridge)	0	337895	365500
42		Kumunibahali Sand Bed (B) (Lower Side of Mahulpali Bridge)	0	354530	385418
43		Ghanamal Sand Bed	166663	165032	169832
44	Paikmal	Chuhapali-I Sand Bed	30323	60646	90969
45		Chuhapali-II Sand Bed	32342	16171	0
46		Mandiadhipa Sand Bed	44213	88426	88426
47		Khaira Sand Bed	21000	63000	0
48		Jamseth Sand Bed	44278	22139	0
49		Bartunda Sand Bed	54224	27112	0
50		Nilathar Sand Bed	84788	84788	0
51		Kuturamal Sand Bed	66452	66452	0
52		Brahmandihi Sand Bed	90950	90950	90950
53		Muneikel Sand Bed	88706	88706	88706
Total			3328713	2586331	1837543


SUB-COLLECTOR
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Asst. Collector of Forest
Bargarh District Division
Bargarh


Addl. Jst. Magistrate
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Collector, Bargarh

05. DETAILS OF PRODUCTION OF SAND IN LAST THREE YEARS FOR SAND.

PRODUCTION OF SAND FOR LAST THREE YEARS					
Sl. No.	Name of the Tahasil	Name of Source	Production for last three years (in Cum)		
			2016-17	2017-18	2018-19
1	Attabira	Jhankabahal Sand bed	5031.25	5031.25	5031.25
2		Jhilminda Sand bed	1203.5	1209	1210
3		Sorna Sand bed	5800	5800	5800
4		Bhoipali Larasara Attabira Jhaunjore sand bed	2600	2600	2600
5		Chakuli Bhoipura Sand bed	2239.8	2280	2310
6	Bargarh	Bausenpali sand bed -B	2000	2000	2000
7		Bausenpali danta river sand bed -C	1000	1000	1000
8		Dhanger zeera river sand bed -A	4104	4104	4104
9		Jamurda danta river sand bed(A)	1280	1360	1408
10		Jamurda danta river sand bed(B)	1260	1360	1460
11		barahguda danta river sand bed- C	2442.8	2262.8	2250.8
12		Barahguda danta river sand bed- A	1653	1649	1650
13		Ambapali /sarsara banjarinala sand bed	1400	1400	1400
14		Ambapali zeera river sand bed -A	2206.8	2186.4	2210.4
15		Zeera river sand bed- C	2805	2720	2659
16		Zeera river sand bed -D	2741.5	2812.5	2835.5
17		Dang grisulnala sand bed -C	2833	2743	2637
18		Dang grisulnala sand bed- D	1828.8	1843.2	1837.2
19		Dang grisulnala sand bed -E	2000	2000	2000
20		Bargarh zeera river sand bed -B	2760	2758	2757
21		Bargarh zeera river sand bed -C	2875	2850	2848
22		Talsrigida danta river sand bed	1500	1600	1700

District Survey Report (Sand) Bargarh, Odisha 7 | Page

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Bargarh

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23		Rungunia zeera river sand bed -A	4900	4900	4900	
24		Kuruan danta river sand bed	1500	1500	1500	
25	Barpali	Baramkela sand bed	4286.25	4619.25	
26	Bhatli	Kamgaon Sand bed		300	2000	
27	Bheden	Jandol sand quarry	300	300	300	
28		Dhubenpali(B) sand quarry	1100	1100	1100	
29		Deshbhatli sand quarry	2000	2000	2000	
30		Sankrida (B) sand quarry	2000	2000	2000	
31		Sankrida (C) sand quarry	2000	2000	2000	
32		Apamara sand quarry	1500	1500	1500	
33		Kutpali sand quarry	--	--	900	
34		Achhandapali(B) sand quarry	1500	1500	1500	
35		Bijepur	Jaring Sand Bed	2000	2000	2000
36			Talpadar Sand Bed	700	720	740
37	Gaisilet	Bheluapadar Sand	6381	6381	6381	
38	Jharbandh	Jagdapur Sand Quarry	1300	1400	1500	
39		Lergaon Sand Quarry	2550	2600	2650	
40		Balangir Sand Quarry	1950	2000	2050	
41		Turla Sand Quarry	-	-	3980	
42		Badanki Sand Quarry	-	-	8010	
43	Padampur	Firupali Sand Bed	400	0	0	
44		Singhanpur Sand Bed	500	500	500	
45		Deoli Sand Bed	500	500	0	
46		Lakhamara Sand Bed	0	400	0	
47		Kumunibahali Sand Bed (A) (Upside of Mahulpali Bridge)	0	2785	2840	
48		Kumunibahali Sand Bed (B) (Lower Side of Mahulpali Bridge)	0	2888	2902	
49		Ghanamal Sand Bed	1000	1000	1000	
50		Paikmal	Chuhapali-I Sand Bed	110	110	110
51			Chuhapali-II Sand Bed	194	194	194
52			Mandiadhupa Sand Bed	209	209	209
53	Khaira Sand Bed		86	86	86	
54	Jamseth Sand Bed		102	102	102	
55	Bartunda Sand Bed		172	172	172	
56	Nilathar Sand Bed		387	387	387	
57	Kuturamal Sand Bed		258	258	258	
58	Brahmandihi Sand Bed		281	281	281	
59	Muneikel Sand Bed		210	210	210	
Total			89654.45	100138.4	114589.4	

District Survey Report (Sand) Bargarh, Odisha 8 | Page

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Asst. Collector
Bargarh District
Bargarh

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Bargarh District
Bargarh

Collector, Bargarh

06. PROCESS OF DEPOSITION OF SEDIMENTS IN THE RIVERS OF THE DISTRICT.

Fluvial Process of deposition is a geological process on the face of earth, normally controlled by various factors like gradient of the river, velocity of the flowing water, amount of discharge, change in the river channel pattern & chemical precipitation etc. Sediment in rivers gets deposited as the river slows down. Larger, heavier particles like pebbles and sand are deposited first, whilst the lighter silt and clay only settle if the water is almost still. The flow of water is strongest on the outside of river bends, eroding the bank, but is slowest on the inside of the bends, allowing deposition of sand and gravel. When a river "bursts its banks" after heavy rain, flood water spreads out across the floodplain and, because this water hardly moves, finer silt and clay are deposited – often making good farmland.

The general drainage pattern in the district is dendritic to sub-parallel. The Mahanadi, Jira river are two main river in the district along with its tributaries. Hirakud Dam catchment area covers a part in north-east of Bargarh district.

The distance of the sources from the river origin is geologically very short, hence this can be concluded that the rate of deposition of sand River is moderate, while in tributary rivers within the district the rate of deposit is slow.


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Asst. Forest Officer
Bargarh Forest Division
Bargarh



Addl. Jt. Magistrate
Bargarh


Collector, Bargarh

07. GENERAL PROFILE OF THE DISTRICT.

Bargarh district is situated on the western part of Orissa. It is linked with the state headquarters, Bhubaneswar which is 370 Kms by road and rail. In conformity with the uniform pattern of district administration, the Collector and the district Magistrate for the district is treated as the pivot of the set up with vast and varied power. As the district Magistrate, he is the highest authority in the district for maintenance of law and order. Although the officials of other departments in the district are under the immediate charge of their respective Heads of departments, the district Collector exercises general supervision over them. The district has been divided into two subdivisions, namely, Bargarh and Padmapur and each sub-division is in charge of a Sub-Collector who looks after the general administration, maintenance of law and order and implementation of developmental programmes. For revenue administration, the district has been divided into 12 tahasils, namely – Paikamal, Padmapur, Sohela, Barapali, Bheden, Bargarh, Bhatli, Attabira, Gaisilet, Bijepur, Ambhabona&Jharbandh and each tahasil is kept in the charge of a Tahsildar. For the maintenance of law and order, the district has been divided into fifteen Police Stations, namely :- Paikamal, Jharbandha, Padmapur, Burden, Gaisilet, Melchhamunda, Sohela, Bijepur, Barapali, Bheden, Bargarh, BargarhSadar, Bhatli, Ambabhona and Attabira. There are 12 CD Blocks in the Bargarh District viz. Ambabhona, Attabira, Bargarh, Barpali, Bhatli, Bheden, Bijepur, Gaisilet, Jharbandh, Padampur, Paikmal and Sohella. Bargarh Municipality is the one Municipality in the District and 3 N.A.Cs are Barpali, Padampur and Attabira. There are total 248 Gram Panchayats and 1208 Revenue villages in the District. The Bargarh District experiences extreme type of climate with hot and dry summer followed by humid monsoon and chilling winter. The temperature varies between 10 degree Celsius to 46 degree Celsius. The winter season lasts between November to February. The hot season follows thereafter and continues till the second week of June. The south-


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west monsoon season is from mid June to the end of September. The average annual rainfall in the District is 1527 mm. Agriculture acts as the backbone of the economy of the Bargarh District. Most of the indigenous inhabitants in Bargarh District mainly practice crop cultivation. Because of the presence of natural drainage facilities, the District plain supports the growth of large agricultural products and is free from insects and pests. As we go through the educational scenario of the District, Bargarh District has got many educational institutes like Pharmacy College Barpali, Vikash Junior College, Sri Sri Nrusinghanath Ayurvedic College Paikmal, Panchayat College Bargarh, Larambha College, Bargarh Law college, Anchal College Padampur, Attabira College, Padmashree Krutartha Acharya College of Engineering Bargarh.

Bargarh district celebrates many festivals round the year. Common festivals like Nuakhai, Dhanuyatra, Maha Shivratri of Kedarnath, Nrusingha Chaturdarshi, Sitalasasthi, Viswakarma Puja, Bali yatra of Khuntapali, Baisakh Mela of Nrusinghanath, Falguna Mela of Bhatli. Many prominent personalities born in this district like Parbati Giri, Padmashree Krutartha Acharya, Padmashree Kunjabihari Meher, Surendra Meher, Manabodh Rana.

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21/6/2020
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Bargarh Forest Division

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Bargarh

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21/6/2020
Collector, Bargarh

**08. LAND UTILIZATION PATTERN IN THE DISTRICT: FOREST, AGRICULTURE, HORTICULTURE, MINING ETC.
Forest:**

Forest land use as per the concern authority is as follows Abstract of areas statement of Bargarh Forest Division															
SL.No.	Legal status of the Forest Blocks	Name of the Range												Total	
		Bargarh Range		Bhalil Range		Ghess Range		Padampur Range		Nisinghanath Range		Paikmal Range			
		No. of the forest Block	Area in ha.	No. of the forest Block	Area in ha.	No. of the forest Block	Area in ha.	No. of the forest Block	Area in ha.	No. of the forest Block	Area in ha.	No. of the forest Block	Area in ha.	No. of the forest Block	Area in ha.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
01	Reserve Forests (RF)	7	1064.92	3	15712.14	4	2749.39	10	1535.59	1	46.84	5	625.67	30	21734.55
02	Protected Forests (PF)	0	0.00	0	0.00	1	20.24	0	0.00	0	0.00	0	0.00	1	20.24
03	Proposed Reserve Forests (PRF)	0	0.00	0	0.00	9	11014.76	36	14207.41	10	10259.39	29	10140.58	84	45622.14
04	Un-Demarcated Protected Forests (UDPF)	0	0.00	0	0.00	4	24.38	4	113.47	0	0.00	0	0.00	8	137.85
05	Demarcated Protected Forests (DPF)	1	19.43	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	19.43
06	VF (Social Forestry Plantation Notified by F.D)	79	404.734	72	479.032	43	300.76	50	264.892	9	49.676	13	86.632	266	1585.726
		87	1489.084	75	16191.172	61	14109.53	100	16121.362	20	10355.906	47	10852.882	390	69119.936


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Bargarh


Addl. Forest Officer
Bargarh


Collector, Bargarh

Agriculture:

LAND UTILISATION PATTERN IN THE DISTRICT: AGRICULTURE

General land information of Bargarh District as follows:

Sl. No.			High	Medium	Low	
1	Geographical area					583200
2	Cultivable area	Ha.				363624
3	Forest area	Ha.				71937
4	Misc. Trees & Grooves	Ha.				4557
5.	Permanent Pasture	Ha.				19638
6	Culturable Waste	Ha.				14879
7	Land put to non agriculture Use	Ha.				23711
8	Net shown area	Ha.	173731	97685	77331	348747
9	Gross Crop area	Ha.				478984
10	Cropping intensity	Ha.				737
11	Irrigated area	Ha.				184053
12		Ha.				120929
13	Cultivated area	Ha.	173731	97685	77331	348747
14	Paddy area	Ha.	80172	95078	77331	252581
15	Non paddy area	Ha.	93559	2607	0	96166
16	DAO Circle					4
17	AO Circle					24
18	AO/VAW circle					233


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 Bargarh


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Horticulture:

Physical and Financial Progress made under MIDH(NHM)/NMMI/STATE PLAN/NMOP/MGNREGA/RKVY FOR THE YEAR 2017-

NAME OF THE DISTRICT : BARGARH

Sl. No.	Item	Unit	BARGARH						PADAMPUR						TOTAL DISTRICT					
			Physical		Financial		Physical		Financial		Physical		Financial		Physical		Financial			
			Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement		
1. NHM (MIDH)																				
Establishment of new Gardens (Area Expansion)																				
1	Plantation																			
a	Banana TC - Without Integration	ha	10	14.83	3.07	4.56	7			2.15	0	17	14.83	5.22	4.5					
b	Papaya - Without Integration	ha	3		0.68		3			0.68	0.680	6	3.00	1.36	0.6					
c	High Density -Mango-Without Integration	ha	2	2	0.2	0.200	1	1	0.1	0.1	0.1	3	3.00	0.3	0.3					
d	Mango (10m.x10m) normal spacing	ha	43	43	3.29	3.29	79	79	6.04	6.04	6.04	122	122.00	9.33	9.3					
2	Vegetables (For maximum area of 2 ha per beneficiary)																			
	Hybrid @Rs.50000/ha (40% of the cost in general)	ha	50	63.40	10	12.680	50			10		100		20	12.6					
3	Flowers (For a maximum of 2 ha per beneficiary)																			
	Loose flowers																			
a	S&M Category	ha	5	0.1	0.80	0.016	5			0.80		10	0.10	1.6	0.0					
b	Other Category	ha	5	1.2	0.50	0.12	5			0.50		10	1.20	1	0.1					
4	Training of Farmers																			
a	Within the State @ Rs.1000/day/farmer including transport	Nos.	100	100	1	1.000	100	100		1	1.000	100	200	2	2.00					
b	Outside the State @ 5000/farmer	Nos.	20	20	1	1.000	18	18		0.9	0.900	38		1.9	1.9					
5	Exposure Visit of Farmer																			
a	Outside the State @ 5000/farmer	Nos.	10	10	0.5	0.500	10	10		0.5	0.500	20		1	1.00					
b	Outside India @ Rs.4.0 lakh / participant	Nos.																		

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Training, study tour of technical staff/field functionaries with TA, DA as admissible														
6		Within the State @Rs.300+Rs.400+500/day/staff	6	0.07										
a		Study tour to progressive states / participants											12	0.14
b		Group of minimum 5 participants	Group										2	1
7		INTEGRATED POST HARVEST MANAGEMENT											0	
a		Functional Pack House/On farm collection & Storage unit (9M x 6m)	Nos.	5	6	12	5	10					10	20
b		District Level @Q 2 days event	Nos.	1	1	2.00							1	1
c		Promotion of 25 Producers Organisations	Nos.	1			1	2					2	4
2		STATE PLAN SCHEMES												
a		Sale of Planting Material	nos.	11620	11620	1.23430	6218	1.23430					17838	2.4686
b		Single Line Trellis	nos	70	70	2.10	60	1.80					130	3.9
c		Onion Seed	Qtl	5	5	0.8050	6	0.96000					11	1.76500
3		RKVY												
a		Potato	ha	30	5.28	0.79992	10	0.90900					40	1.70892
4		Micro Irrigation												
a		Drip	ha.											
		Field Crop	ha.	10		3.795							10	3.795
		Horticultural Crop	ha.	110	0.8	9.44							110	9.44
b		Portable Sprinkler	ha.											
		Field Crop	ha.	390		25.195							390	25.195
		Horticultural Crop	ha.	300	38.80	18.17							300	18.17
5		NM00P												
a		Oil Palm	ha.	400	202.49	48	17.22987	24	23.06194				600	473.52
6		MGNREGA												
a		Mango	ha.				33	37.29					33	37.29
b		Mango (Conv.)	ha.				60	123.1595					60	123.1595
c		Oil Palm (Conv.)	ha.	34.5	30	26.2918	50	38.104					84.5	64.39576

SCHEME WISE PHYSICAL & FINANCIAL TARGET AND ACHIEVEMENT OF HORTICULTURAL ACTIVITIES OF BARGARH DISTRICT 2018-19														
Sl. No	Item	BARGARH				PADAMPUR				DISTRICT TOTAL				REMARKS (% OF ACHIEVEMENT)
		Physical		Financial		Physical		Financial		Physical		Financial		
		Target	Achievement	Achievement	Target	Target	Achievement	Achievement	Target	Target	Achievement	Achievement		
	MIDH(NHM)													
A	Plantation													
i	Banana TC - Without Integration	20.00	12.1060	3.7213	3	3	0.92214	23.00	15.11	4.6434	66			
ii	Papaya - Without Integration	0	0	0	5	5	1.12	5.00	5.00	1.1200	100			
iii	Mango (10m.x10m) normal spacing	60	55.20	4.2228	50	53	4.01625	110.00	108.20	8.2391	98			
iv	Pomogranet - Without Integration	5	5.00	0.72	5	4.5	0.648	10.00	9.50	1.3680	95			
	Special intervention for Top (Promotion of hybrid tomato cultivation) & hybrid Vegetablecultivation	100	106.90	21.06	100	100	20.00	200.00	206.90	41.0600	103			
B	Plastic Mulching Max-2 ha/Benif (sqm)	30	27	4.32	20		0	50.00	27.00	4.3200	54			
C	Shedenet House limited to 4000 sqm	0.10	0.02	0.36				0.10	0.02	0.3600	20			
E	Horticulture Mechanisation									0.0000				
i	Tractor (Upto 20 PTO HP)	4	4	0	2	2	1.465	6.00	6.00	1.4650	100			
F	High Tech Horticulture	3	0	0				3.00	0.00	0.0000				
	Poly House	4000 sqmt	under erection							0.0000				
G	Cold Storage	1	under progress							0.0000				
H	Training of Farmers									0.0000				

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	Within the State @ Rs.1000/day/farmer including transport	100	100	1	225	225	2.25	325.00	325.00	3.2500	100
	Outside the State @ 5000/farmer	40	40	2	30	30	1.5	70.00	70.00	3.5000	100
I	Exposure Visit of Farmer									0.0000	
	Outside the State @ 5000/farmer	40	40	2	30	30	1.5	70.00	70.00	3.5000	100
J	INTEGRATED POST HARVEST MANAGEMENT									0.0000	
	Functional Pack House/On farm collection & Storage unit (9M x 6m)	8	4	8	16	14	28	24.00	18.00	36.0000	75
	Onino storage structure	10	2	1.75	30	28	24.5	40.00	30.00	26.2500	75
K	District Level @Q 2 days event	1	1	2				1.00	1.00	2.0000	100
	Other Activities (Vermibed Bed, Vermicompost, Zero energy cool chamber)									0.0000	
L	MIDH(NHM) Total			51.1541			85.92139			137.0755	
M	NM00P									0.0000	
	Plantation	350	349.71	34.557	350	370	38.71	700.00	719.71	73.2670	103
N	RKVY							0.00	0.00	0.0000	
	AHO Buildings/Farmdevelopment.	5	4	49	3	2	29.87	8.00	6.00	78.8700	75
	Potato	6	6.267	0.6267	5	4.8	0.48	11.00	11.07	1.1067	101
O	STATE PLAN SCHEMES									0.0000	
	Input subsidy on seed fertiliser, bio- fertiliser, insecticides, bio-pesticides etc									0.0000	
i	Sale of Planting Material	10100	10100	1.04100	6110	6110	0.33	16210.0 0	16210.0 0	1.3710	100
	Devt of Potato & Veg.									0.0000	
i	Subsidised sale of Onion Seeds(in Qty)	5	3.76	2.256	2.5	2.5	1.5	7.50	6.26	3.7560	83
P	Micro Irrigation									0.0000	

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i	Drip	250	400	265.5				250.00	400.00	265.5000	160
ii	Portable Sprinkler	400	900	89.90				400.00	900.00	89.9000	225
Q	MGNREGS									0.0000	
i	Mango and Maint.Mango Plantation.	85	76.80	18.38	350	373.5	91.87	435.00	450.30	110.2500	104
	Total			512.4148			248.68139			761.0962	97

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SCHEME WISE PHYSICAL AND FINANCIAL TARGET AND ACHIEVEMENT OF HORTICULTURAL ACTIVITIES OF BARGARH DISTRICT 2019-20 (TILL DATE)

Sl.No	Item	Unit	BARGARH						PADAMPUR									
			TAR		ACH		TAR		ACH		TAR		ACH					
			Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.				
1	Establishment of New Garden																	
I	Cost Intensive Crops (For a maximum area of 4 ha per beneficiary)																	
II	Mango without integration @ Rs.25,500/ ha - maximum of Rs.0.30 lakh /ha (50% of cost) for meeting the expenditure on planting materials, and cost of material for INM/IPM, in 3 installments (60 : 20 : 20) - (10 x 10)	ha	70	5.355	60			100	7.65	100			170	13.005	160			
III	Banana TC - Without Integration @ Rs 1.25 / ha - maximum of Rs.0.50 lakh /ha (40% of cost) for meeting the expenditure on planting materials, and cost of material for INM/IPM, in 2 installments (75:25)	ha	20	6.148	under progress			10	3.07	under progress			30	9.2178	under progress			under progress
IV	Papaya - Without Integration @ Rs 60,000/ ha - maximum of Rs.0.30 lakh /ha (40% of cost)	ha	5	1.130	5.00			2	0.45	2			7	1.58	7			
V	Pomegranate - Without Integration @ Rs.48,000/ ha - maximum of Rs.0.30 lakh /ha (50% of cost) for meeting the expenditure on planting materials, and cost of material for INM/IPM, in 3 installments (60 : 20 : 20) - (5 x 5)	ha	5	0.720	5.000			10	1.440				15	2.16	5			

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VI	High Density Mango without integration @ Rs.41,000/ ha - maximum of Rs.16,400/ha (40% of cost)	ha	10	0.980	3,000					10	0.98	3
2	Vegetables (For maximum area of 2 ha per beneficiary)	ha	100	20,000	under progress	75	15.00	under progress	175	35		under progress
3	i) Hybrid @Rs.50000/ha (40% of the cost in general)	ha							0	0		
	Flowers (For a maximum of 2 ha per beneficiary)								0	0		
I	Loose flowers								0	0		
II	S&M Category	ha	5	0.800	under progress	2	0.32	under progress	7	1.12		under progress
	Other Category	ha	5	0.500	under progress	4	0.40	under progress	9	0.9		under progress
4	Promotion of Integrated Nutrient Management (INM)/ Integrated Pest Management (IPM)								0	0		
i)	Promotion of INM/IPM@Rs.4000/ha; Max-4ha/Beneficiary	ha	50	0.600	under progress	50	0.60	under progress	100	1.2		under progress
5	Organic Farming								0	0		
I	Vermi Compost Units/ Organic Input Production Unit								0	0		
	Permanment Structure 30'x8'x2.5' @Rs.100000/Unit	Nos.	2.00	1,000	under progress	2.00	1.00	under progress	4	2		under progress
6	Human Resource Development (HRD)								0	0		
I	Training of Farmers								0	0		
a	Within the State @ Rs.1000/day/farmer including trasport	Nos.	150	1,500	under progress	100	1.00	under progress	250	2.5		under progress
b	Outside the State @ 5000/farmer	Nos.	50	2,500	under progress	50	2.50	under progress	100	5		under progress
II	Exposure Visit of Farmer								0	0		
a	Outside the State @ 5000/farmer	Nos.	50	2,500	under progress	50	2.50	under progress	100	5		under progress
7	INTEGRATED POST HARVEST MANAGEMENT								0	0		
c.1	Functional Pack House/On farm collection & Storage unit (9M x 6m)	Nos.	3	6,000	under progress	2	4	under progress	5	10		under progress
c.4	Evaporative/Low energy cool chamber (8 MT) @ 5.0 lakh /unit	Nos.	2	5,000	under progress			under progress	2	5		under progress
c.5	Preservation Unit (low cost) - New Units	Nos.	10	10,000	under progress	5	5.00	under progress	15	15		under progress
c6	Low cost Onion Storage Structure (25 MT)	Nos.	35	30,625	under progress	35	30.63	under progress	70	61.255		under progress
c.7	Pusa Zero energy Cool Chamber (100)	Nos.	30	0,600	under progress	25	0.50	under progress	55	1.1		under progress

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E	Special Interventions	Ha	300	0.480	under progress	200	0.32	under progress	0	0	under progress
	Supply of Plastic Crates to Vegetable/ Fruit Growers								500	0.8	under progress
F	Mission Management								0	0	
a	District Level @Q 2 days event	Nos.	1	2.000	under progress				1	2	under progress
b	Exhibition & work shop for each MP both Lok Sabha & Rajya Sabha	Nos.	1	2.000	under progress				1	2	under progress
2	STATE PLAN SCHEMES										
a	Sale of Planting Material	nos.	3100		3100	525		525	3625		3625
5	NFSM-OP										
a	Oil Palm	ha.	130		12.42	200		49.07	330	0.00	61.49

Mining:

Incidence of major mineral resources is not quite encouraging in the district. Besides, the district is rich in minor minerals like river sand, road metals, morrum, laterite stone etc. The total area considered for mining activity for all minerals shall be the mining area within the district.

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09. PHYSIOGRAPHY OF THE DISTRICT.

The district Bargarh is situated at the south western part of Odisha constituting part of Western Ghat Mobile Belt normally a rugged hilly terrain. Bargarh District experiences extreme type of climate with hot and dry summer followed by humid monsoon and chilling winter. The temperature varies between 10 degree Celsius to 46 degree Celsius. The winter season lasts between November to February. The hot season follows thereafter and continues till the second week of June. The south-west monsoon season is from mid June to the end of September. The average annual rainfall in the District is 1527 mm. Agriculture acts as the backbone of the economy of the Bargarh District. Most of the indigenous inhabitants in Bargarh District mainly practice crop cultivation. Because of the presence of natural drainage facilities, the District plain supports the growth of large agricultural products and is free from insects and pests. Bargarh has been named after the headquarters town Bargarh situated on the left bank of the Jirariver. The town is on the National Highway No.6 and located at 59 km to the west of Sambalpur district. It is also served by the D.B.K railway running from Jharsuguda to Titlagarh. The railway station is about 3 kms off the town. A meter gauge railway line connects Bargarh with the lime stone quarry at Dunguri. The main Hirakud canal passes through the town and is known as the Bargarh canal. Bargarh District lies on the western most corner of Odisha between 20 degree 43' to 21 degree 41' north latitude and 82 degree 39' to 83 degree 58' east longitude. The District is surrounded by Chhatisgarh state on the north, Sambalpur District on the east, Balangir and Subarnapur on the south and Nuapada District on the west.

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10. RAINFALL: MONTH-WISE.

Information on Rainfall from the year. 2012 to 2019 in Respect of Bargarh District.

Sl No	Month	District Normal rainfall in mm	2012 Average in mm	2013 Average in mm	2014 Average in mm	2015 Average in mm	2016 Average in mm	2017 Average in mm	2018 Average in mm	2019 Average in mm
1	January	12.5	59.5	5.5	0	0.42	5.50	6.97	0.0	1.5
2	February	19.1	0	17.08	30.75	5.08	12.25	0.0	2.72	13.71
3	March	22.0	0	0.0	23.75	6.88	15.00	11.83	0.18	38.79
4	April	20.0	4.40	29.37	1.42	74.42	4.75	0.0	9.54	21.83
5	May	25.6	1.66	10.50	98.17	6.75	30.04	16.80	66.08	14.5
6	June	205.6	321.83	198.17	94.00	255.67	125.32	260.57	145.53	135.53
7	July	397.2	275.66	396.33	670.67	259.58	218.97	263.00	471.18	412.72
8	August	374.4	487.16	221.58	462.25	274.42	284.32	244.83	397.34	449.07
9	September	222.6	254.44	177.75	294.1	119.46	292.11	115.57	174.23	429.42
10	October	52.8	80.91	186.17	33.4	0.83	56.60	63.26	7.38	64.48
11	November	10.4	9.83	0	0	0.00	0.20	1.12	0.0	
12	December	5.1	0	0	0.08	7.08	0.0	0.00	82.81	
	Total	1367.3	1495.39	1242.45	1708.34	1010.59	1024.97	983.95		


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11. GEOLOGY AND MINERAL WEALTH.

Geology:

Major portion of the district's landmass is underlain by Archaeans. The remaining area is compromised up of rocks belonging to proterozoics and Gondwanas.

Archaeans

The Archaeans consist of principally of Khondalite suite of rocks & unclassified granite and granite gneisses. The Khondalite group from a significant plateau topography at Gandhamardan associated with rich deposits of bauxite. The rocks also carry economic deposits of Graphite (Sargipalli). A variety of Granite gneisses which are potential source of base metals and gemstones respectively.

Proterozoic (Vindhya)

Proterozoic meta sedimentary rocks are exposed along the area bordering Chhattisgarh. They form the eastern margin of Chhattisgarh basin. The rock types include grit, quartzite, shale, sandstone and slate. These contain important beds of limestone. This has also been targeted for locating primary source for diamond due to long & intermittent history of alluvial diamond recovery.

Gondwana

The lower Gondwana formations rest uncomfortably over pre-cambrian basement along the Ong River alignment. The rock types include shale, sandstone, gritty and conglomeratic sandstone with occasional grey shales. Coal seam belonging to Karharbari/ Basal barakar formations are encountered which also carry fireclay.


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Addl. J.S.L. Magistrate
Bargarh


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Stratigraphy

Quaternary Soil/ alluvium
Laterite
Gondwana Super Group. Talchir Formation–(conglomerate, felspathic sandstone and clay)
(Carboniferous to Permian)
Middle to Upper Proterozoics..Chhattisgarh Super
Group Raipur Gr. (shale, purple Quartzite)
Chandarpur Gr.
(quartzite, sandstone, shale, phyllite, conglomerate)


Proterozoics..... (Qtz. Vein, dolerite, granophyres, pyroxenite, anthrosite, granite, gneiss, augen gneiss, migmatite).


Archaean..... Eastern ghat Super group.....Khondalite Gr. (calc silicate/ calcgranulite/quartzite/sillimanite quartzite, qtz-gt. Silimanite schist, amphibolites, metavolcanics)

Mineral welth:

There is a good potential of ordinary stone & Sand in the district, also there is noticeable quantity of Graphite, Dolomite & Lime stone deposit found within the district, a few decorative stone & Quartzite deposits also reported within the district.


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a. District wise details of river or stream and other sand source;

Sl no	Name of the River	place of origin	Altitude at Origin (m)	Total Length in District (km)	area Drained (sq.km)	% area drained in the district
1	Danta river	Banjipali village, Bhatli block	184.00	54.00	-	100.00
2	Jeera River	Ramgiri hills of eastern ghat ,Gajapati district	-	83.50	-	70.00
3	Ong River	Beherapani village	457.00	59.00	5128.00	100.00
4	Jonk River	Khariar hills ,Kalahandi District	762.00	-	3484.00	
5	Girsul nala	Relendapali village, bhatli block	195.00	22.50	-	95.00
6	Jhaun Jore	Guthipali village, Attabira Block	162.00	35.85	-	100.00
7	Kuliary jore	Jaipur village, Bhatli Block	242.00	20.75	-	100.00
8	Dev mohini Nala	Badmal village , Rajbarasambhar Block	200.00	8.00	-	100.00
9	Kumri Nala	Fraserpur village Rajbarasambhar Block	260.00	32.00	-	100.00

District Survey Report (Sand) Bargarh, Odisha

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b. District wise availability of sand resources;

The Tentative Potential of sand resources of the district as per the concern department are as follows;

Availability of Sand resources				
Sl no	Name of Tahasil	Name of Quarry	Area (In Ha)	Potential Resource (In Cum)
1	Attabira	Jhankabahal Sand bed	12.78	19170
2		Jhilminda Sand bed	8.22	12315
3		Bhoipura Attabira sand	12.88	38656
4		Chakuli Sand bed		
5		Chakuli Sand bed	3.56	10701
6		Larambha Khandagali Sand bed		10065
7		Kadobahal Sand bed	5.572	167178
8		Sindurbahal Sand Bed	19.117	57353
9	Bargarh	JAMURDA DANTA RIVER SAND BED A Khata No-753 Plot No-1558(P)	5.261	7890
10		JAMURDA DANTA RIVER SAND BED B Khata No-753 Plot No-1558(P)	5.261	7890
11		BARAHGUDA DANTA RIVER SAND BED A Khata No-453 Plot No-1997(P)	5.859	10809
12		BARAHGUDA DANTA RIVER SAND BED B Khata No-453Plot No-1997(P)- 5.00 ACRE and Khata No-455 Plot No-3065(P)- 9.88 ACRE	6.021	9030
13		BARAHGUDA DANTA RIVER SAND BED C	5.859	9015
14		ADGAON DANTA RIVER SAND BED	5.058	30360


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15	BAUSENPALI /KURUAN DANTA RIVER SAND BED A Khata no-62 Plot No 303(P)- 11.50 ACRE and Khata no-832- Plot No 3025(P) - 1.00 ACRE	5.058	15180
16	BAUSENPALI /KURUAN DANTA RIVER SAND BED B Khata No-62 Plot No-303(P)	5.058	7575
17	BAUSENPALI /KURUAN DANTA RIVER SAND BED C	1.011	7620
18	TALSRIGIDA SAND BED Khata No 912 Plot No 1331(p)- 9.00 ACRE and Plot No 1644(P)- 7.80 ACRE	6.798	10185
19	KURUAN DANTA RIVER SAND BED Khata No-832 Plot No-1(P)	5.058	9090
20	BANBASPALI RANJ RIVER SAND BED	5.382	16147
21	SAYAN ZEERA RIVER SAND BED Khata No-209 Plot no -1 - 9.00 ACRE and plot No-783(p)- 4.00 ACRE	5.261	9468
22	BGH ZEERA RIVER SAND BED A Khata No-2534 Plot No-1(P)	5.058	4545
23	BGH ZEERA RIVER SAND BED B Khata No-2534 Plot No-1(P)	5.058	4545
24	BGH ZEERA RIVER SAND BED C Khata No-2534 Plot No-1(P)	5.058	4545
25	BGH ZEERA RIVER SAND BED D Khata No-2534 Plot No-1(P)	5.058	4545
26	AMBAPLAI / SARSARA BANJARINALA SAND BED	5.058	8324

District Survey Report (Sand) Bargarh, Odisha

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27	AMBAPALI ZEERA RIVER SAND BED A	5.058	4545
28	AMBAPALI ZEERA RIVER SAND BED B	5.058	4545
29	AMBAPALI ZEERA RIVER SAND BED C	5.058	4545
30	AMBAPALI ZEERA RIVER SAND BED D	5.058	4545
31	AMBAPALI ZEERA RIVER SAND BED E	5.261	7890
32	DANG BARDOL GRISULNALA SAND BED A Khata No 331 (DANG) Plot No 1(P) -0.50 ACRE Khata No 537 plot no 1224- 12.04 ACRE	5.074	7605
33	DANG GRISULNALA SAND BED B Khata No-331 Plot No- 1(P)	5.058	7575
34	DANG GRISULNALA SAND BED C Khata No-331 Plot No -1(P)- 2.00 ACRE and Plot no- 1369-10.84 ACRE	5.196	7890
35	DANG GRISULNALA SAND BED D	5.261	7890
36	DANG GRISULNALA SAND BED E Khata No 331 Plot No 1403(P)	6.879	6183
37	DHANGER ZEERA RIVER SAND BED A Khata No 1105 Plot No 8094(p)	5.099	2162
38	DHANGER ZEERA RIVER SAND BED B Khata No 1105 Plot No 8094(p)	5.139	12335
39	DHANGER ZEERA RIVER S AND BED C Khata No 1105 Plot No 8094(p)	5.949	10708
40	DHANGER ZEERA RIVER SAND BED D Khata No 1105 Plot No 8095(p)	6.361	11451

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41		DHANGER ZEERA RIVER SAND BED E Khata No 1105 Plot No 8095(p)	5.665	16997
42		RUNGUNIA ZEERA RIVER SAND BED Khata No 601 Plot No 898(p)	6.07	10926
43		BARGAON DANTA RIVER SAND BED	5.058	15180
44		Turunga Sand Bed(Proposed Sources)	16.56	49680
45		Bageibira Sand Bed(Proposed Sources)	11.61	34844
46		Dhamnamunda Sand Bed(Proposed Sources)	5.25	15758
47		Deogaon Sand Bed(Proposed Sources)	8.09	24281
48	Barpali	Mahada sand Bed	5.38	
49		barangapali sand bed	4.66	
50		BANDPALI SAND BED	15.459	
51		BARAMKELA SAND BED	5.05	
52	Bhatli	SAND KAMGAON SAND BD	5.673	13616
53		Handa Sankari Sand bed(Proposed Sources)	5.483	6580
54		Mulbar Sand bed(Proposed Sources)	4.36	2617
55		Nilji Sand bed(Proposed Sources)	5.026	6031
56		Gopalpur Sand Bed(Proposed Sources)	0.809	971
57		Haldipali Sand bed(Proposed Sources)	1.618	4856
58		Kuisira Sand Bed(Proposed Sources)	1.335	2404

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59		Deultunda Sand Bed(Proposed Sources)	0.404	722	
60		Mahada sand Bed(Proposed Sources)	10.62	31882	
61		Vadigaon sand bed(Proposed Sources)	10.92	32780	
62		Beherapali Sand Bed(Proposed Sources)	7.28	21853	
63		Banjhipali Sand Bed(Proposed Sources)	1.62	3874	
64		Halanda Sand Bed(Proposed Sources)	13.905	41716	
65		Temren Sand Bed(Proposed Sources)			
66		Chhadheigaon Sand Bed (Proposed Sources)	12.73	1587	
67	Bheden	Jandol Sand Bed	4.85 Ha	11640	
68		Dhubenpali Sand Bed-B	4.85 Ha	8730	
69		Deshbhatli sand Bed	4.85 Ha	11640	
70		Sankirda Sand Bed-B	4.85 Ha	14550	
71		Sankirda Sand Bed-C	4.85 Ha	14550	
72		Achhandapali sand Bed-B	5.06 Ha	12144	
73		Kutpali Sand Bed	4.77 Ha	11448	
74		Apamara Sand Bed	5.06 Ha	15180	
75		Gondrum sand Bed	5.06 Ha	15180	
76		Sankirda Sand Bed-A	4.62 Ha	11088	
77		Bheden Sand Bed	14.92 Ha	61776	
78		Luhakhandi sand Bed-A	13.11 Ha	23598	
79		Achhandapali sand Bed-A	4.85 Ha	2910	
80		Barpadar sand Bed	13.19 Ha	39570	
81			Bhutload Sand Bed(Proposed Sources)	2.71	4880
82			Salna Sand Bed(Proposed Sources)	4.97	5973

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83		Kamgaon Sand Bed(Proposed Sources)	0.473	284
84		Talmenda sand Bed(Proposed Sources)	19.19	34558
85		Bheden Sand Bed(Proposed Sources)	5.69	17094
86		Udepur sand Bed(Proposed Sources)	0.485	3679
87	Bijepur	Jaring Sand Bed	9.31	32585
88		Talpadar Sand Bed	5.18	7755
89		Laumunda-Cherengamunda Sand Bed	5.62	14200
90		Lemdhar Sand Bed	6.71	12092
91		Ailpur Sand Bed(Proposed source)	4.93	8887
92	Gaisilet	Bhelupadar Sand Quarry	5.018	20040
93		Ainlabhata Sand Bed(Proposed source)	0.809	1457
94		Kalangapali Sand Bed(Proposed source)	0.058	6070
95		Jamutpali Sand Bed(Proposed source)	5.018	17535
96		Raisalpadar Sand Bed(Proposed source)	5.058	6070
97	Jharbandh	Jagdulpur Sand Quarry	5.890 Hac.	14136
98		Lergaon Sand Quarry	6.234 Hac.	14962
99		Balangir Sand Quarry	6.072 Hac.	10930
100		Turla Sand Quarry	3.931 Hac.	9434
101		Badanki Sand Quarry	4.858 Hac.	14574
102		Mahulpali Sand Quarry(Proposed source)	4.977	14933

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103		Chhotkunjari Sand Quarry(Proposed source)	4.977	11946
104		Kumir Sand Quarry(Proposed source)	5.05	12140
105		Chiroli Sand Quarry(Proposed source)	4.977	29866
106		Palsada Sand Quarry(Proposed source)	4.856	29138
107	Padampur	Firupali Sand Bed	7.02	12636
108		Singhanpur Sand Bed	6.16	11088
109		Deoli Sand Bed	11.01	19818
110		Lakhamara Sand Bed	8.33	14994
111		Kumunibahali Sand Bed (A) (Upside of Mahulpali Bridge)	8.09	24270
112		Kumunibahali Sand Bed (B) (Lower Side of Mahulpali Bridge)	8.07	24210
113		Ghanamal Sand Bed	10.33	24792
114		Dangaghat-A Sand bed (Proposed source)	4.046	9712
115		Lahandipur Sand bed (Proposed source)	4.046	9712
116		Sambalpur Sand bed (Proposed source)	6.07	14569
117	Jamala Sand bed (Proposed source)	4.046	7284	
118	Paikmal	Chuhapali- I Sand Bed	5	9000
119		Chuhapali- II Sand Bed	0.272	648
120		Mandiadhupa Sand Bed	4.977	11945
121		Khaira Sand Bed	4.997	8995
122		Jamseth Sand Bed	4.357	10457
123		Bartunda Sand Bed	4.957	11897
124		Nilathar Sand Bed	4.985	11964
125		Kutramal Sand Bed	5	9000
126		Brahmandihi Sand Bed	5	12000
127		Muneikel Sand Bed	5	12000

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128	Kadogucha Sand Bed	4.97	11928
129	Katangpali Sand bed (Proposed source)	4.95	8910
130	Mundhela Sand bed (Proposed source)	4.99	4.982
131	Mundhela Sand bed (Proposed source)	4.896	8812
132	Cherengajhanj Sand bed (Proposed source)	1.011	1819
133	Purena Sand bed (Proposed source)	1.011	1819
134	Paraskhandi Sand bed (Proposed source)	4.856	29136
135	Gadgaon Sand bed (Proposed source)	4.977	8958
TOTAL			1882824.982

c. District wise details of existing mining leases of Sand;

All required Lease details are given in the format, Please refer (Annexure-I, page no. 34 to 55).

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LIST OF SAIRAT SOURCES (SAND)

ATTABIRA TAHASIL							
Sl. No.	Name of the Sand bed	Mouza	Khata No.	Plot no.	Kisam	Area in Acre (Leasable area of the plot)	Remarks
1	Larambha, Khandagali Sand bed	Larambha	293	1(P)	Jore	5.00	Already existing source
2	Jhaunjhor Sand bed	Khandagali	28	89(P)	Nadi	7.25	
3	Bhoipali/ Attabira Sand bed	Jhiliminda	666	2150	Jhaunjore	12.00	Already existing source
4	Jhankabahal Sand bed	Bhoipali & Attabira	269 & 1594	215(P) & 566(P)	Jhaunjore	2.83	Already existing source
5	Chakuli/ Bhoipura Sand bed	Jhankabahal	101	384	Nadi	12.00	Already existing source
		Chakuli	341	910	Jore	2.83	
		Bhoipura	217	623	Jore	1.01	Already existing source
				624	Jore	1.01	
6	Sorna Sand bed	Sorna	749	2862(P), 2862/2903(P)	Jhaunjore	12.30	Already existing source
7	Kadobahal Sand bed	Kadobahal	383	1130(P)	Jore	8.00	Already existing source
				1130/1526(P)	Jore	4.00	
8	Sindurbahal Sand bed	Sindurbahal	364	899	Jhaunjore	28.16	Already existing source
				417		19.08	

BARGARH TAHASIL

Sl. No.	Name of the Sand bed	Mouza	Khata No.	Plot no.	Kisam	Area in Acre (Leasable area of the plot)	Remarks
1	Rungunia Zeera River Sand bed	Rungunia	601	898 (p)	Nadi	12.20	Already existing source
2	Dhanger Zeera River Sand bed A	Dhanger	1105	8094 (p)	Nadi	12.10	Already existing source

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3	Dhanger Zeera River Sand Bed B	Dhanger	1105	8094 (p)	Nadi	12.20	Already existing source
4	Dhanger Zeera River Sand Bed C	Dhanger	1105	8094 (p)	Nadi	12.10	Already existing source
5	Dhanger Zeera River Sand Bed D	Dhanger	1105	8095 (p)	Nadi	12.10	Already existing source
6	Dhanger Zeera River Sand bed E	Dhanger	1105	8095 (p)	Nadi	12.10	Already existing source
7	Bausenpali Sand bed A	Bausenpali	62	303 (p)	Nadi	12.00	Already existing source
8	Talsrigida Danta River Sand Bed A	Talsrigida	912	1331(P) 1694(P)	Nadi	6.00	Already existing source
9	Bausenpali Sand bed B	Bausenpali	62	303(P)	Nadi	5.00	Already existing source
10	Bausenpali Sand bed C	Bausenpali	62	303 (p)	Nadi	2.40	Already existing source
11	Kuruan Danta river Sand Bed	Kuruan	832	1(P)	Nadi	12.10	Already existing source
12	Sayan Zeera River Sand bed	Sayan	209	1 (p) 783 (p)	Nadi	9.00 3.02	Already existing source
13	Ranj River Sand bed	Banbaspali	180	1 (p) 1/1425	Nadi	2.16 10.00	Already existing source
14	Jamurda Danta River Sand bed A	Jamurda	753	1558 (p)	Nadi	12.15	Already existing source
15	Jamurda Danta River Sand bed B	Jamurda	753	1558 (p)	Nadi	10.05	Already existing source
16	Zeera River Sand Bed A	Bargarh	2534	1 (p)	Nadi	7.00	Already existing source
17	Zeera River Sand Bed B	Bargarh	2534	1 (p)	Nadi	7.35	Already existing source
18	Zeera River Sand bed C	Bargarh	2534	1 (p)	Nadi	5.00	Already existing source
19	Zeera River Sand bed D	Bargarh	2534	311 (p)	Nadi	6.00	Already existing source
20	Dang Grisulnala Sand B	Dang	331	1 (p)	Nadi	6.00	Already existing source
21	Dang Grisulnala Sand Bed C	Dang	331	1 (p) 1369	Nadi	12.10	Already existing source

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22	Dang Grisulinala Sand bed D	Dang	331	1403 (p)	Nadi	12.00	Already existing source
23	Dang Grisulinala Sand bed E	Dang	331	1403 (p)	Nadi	12.35	Already existing source
24	Dang/Bardol Grisul Nala Sand bed A	Dang Bardol	331 537	1 (p) 1224(P)	Nadi	6.35	Already existing source
25	Ambapali Zeera River A	Ambapali	262	908 (p)	Nadi	7.50	Already existing source
26	Ambapali Zeera River B	Ambapali	262	908 (p)	Nadi	6.50	Already existing source
27	Ambapali Sand Bed C	Ambapali	262	908 (p)	Nadi	6.35	Already existing source
28	Ambapali Sand Bed D	Ambapali	262	908 (p)	Nadi	6.00	Already existing source
29	Ambapali Zeera River E	Ambapali	262	908 (p)	Nadi	7.00	Already existing source
30	Ambapali sarsara Banjarinala sand Bed	Sarsara Ambapali	1422 262	7573(P) 497(P) 1087(P)	Nadi Nadi Nadi	1.50 5.06 4.74	Already existing source
31	Adgaon Danta river	Adgaon	1223	2847 (p)	Nadi	12.20	Already existing source
32	Barahagoda Danta River Sand bed A	Barahagoda	776	2765(P)	Nadi	12.25	Already existing source
33	Barahagoda Danta River Sand bed B	Barahagoda	774	3740(P)	Nadi	12.30	Already existing source
34	Barahagoda Danta River Sand bed C	Barahagoda	774	3829 3740 (p)	Nadi	12.30	Already existing source
35	Bargaon Danta River Sand bed	Bargaon	785	4730 (p)	Nadi	10.50	Already existing source
36	Talsrigida Danta River Sand Bed B	Talsrigida	912	1694(P)	Nadi	6.30	New identified Source
37	Kuruan Bausenpali Sand bed	Bausenpali Kuruan	62 832	303(P) 3225(P)	Nadi	4.90	New identified Source
38	Grusl River Sand bed	Dhamnamunda	148	531(P)	Nadi	6.02	New identified Source
39	Bagebira Zeera River Sand bed	Bagebira	102	57	Nadi	12.06	New identified Source

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Sl. No.	Deogaon Zeera River Sand bed	Deogaon	224	568	Nadi	4.02		New identified Source
						8.00		
40	Zeera River Sand bed	Turunga	128	1605	Nadi	12.20		New identified Source
41	Tentala Grisul Nadi Sand bed	Tentala	137	1030	Nadi	6.00		New identified Source
42	Haldipali Grisul Nadi Sand Bed	Haldipali	159	1(P)	Nadi	12.35 (p)		New identified Source
43	Gruisul Nadi sand Bed B	Haldipali	159	502(P)	Nadi	12.35 (p)		New identified Source
44	Balitkra Zeera Nadi Sand bed-B	Bargarh	2534	5252(P)	Nadi	12.35		New identified Source

BARPALI TAHASIL

Sl. No.	Name of the Sand bed	Mouza	Khata No.	Plot no.	Kisam	Area in Acre (Leasable area of the plot)	Remarks
1	Baramkela Sand Bed	Baramkela	261	960(P)	Nadi	12.35	Already existing source
2	Mahada Sand bed	Mahada	182	821/1776	Ranjore		Already existing source
				1445/1717			
				2244/1718			
3	Barangapali Sand bed	Barangapali	474	1109	Nadi		Already existing source
4	Bandhapali Sand bed	Bandhapali	371	1			Already existing source
				1393			

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BHEDEN TAHASIL

Sl. No.	Name of the Sand bed	Mouza	Khata No.	Plot no.	Kisam	Area in Acre (Leasable area of the plot)	Remarks
1	Dhubenpali A Sand Quarry	Dhubenpali	166	494	Nadi	12.00	Already existing source
2	Dhubenpali B Sand Quarry	Dhubenpali	166	494(P)	Nadi	12.00	Already existing source
3	Sankirda A Sand Quarry	Sankirda	466	1334	Nadi	12.00	Already existing source
4	Sankirda B Sand Quarry	Sankirda	466	1334(P)	Nadi	12.00	Already existing source
5	Sankirda C Sand Quarry	Sankirda	466	1334(P)	Nadi	12.00	Already existing source
6	Jandol Sand Quarry	Jandol	577	752(P)	Nadi	12.00	Already existing source
7	Apamara Sand Quarry	Apamara	321	819(P)	Nadi	12.00	Already existing source
8	Deshbhatli Sand Quarry	Deshbhatli	276	964(P)	Nadi	12.00	Already existing source
9	Gondturm Sand Quarry	Gondturm	202	758	Nadi	12.50	Already existing source
10	Achhandpali B Sand Quarry	Achhandpali	212	361	Nadi	12.00	Already existing source
11	Achhandpali A Sand Quarry	Achhandpali	212	361	Nadi	12.00	Already existing source
12	Barpadar Sand Quarry	Barpadar	387	1526	Nadi	12.00	Already existing source
13	Bheden Sand Quarry	Bheden	337	1029	Nadi	12.00	Already existing source
14	Kutpali Sand Quarry	Kutpali	254	770	Nadi	11.80	Already existing source
15	Bargaon Sand Quarry	Bargaon	238	727	Nadi	12.00	Already existing source
16	Luhakhandi Sand Quarry	Luhakhandi	131	165(P)	Nadi	12.00	Already existing source
17	Bheden Sand Quarry	Bheden	337	398	Mahanadi	12.00	New Identified Source
18	Udepur Sand Quarry	Udepur	253	617	Mahanadi	1.83	New Identified Source
				113		1.20	
19	Talmenda Sand Quarry	Talmenda	666	991	Nadi	12.00	New Identified Source
				2670		12.00	
20	Kamgaon	Kam gaon	108	105	Mahanadi	0.09	New Identified Source
				113		1.08	
21	Salna Sand Quarry	Salna	330	604	Mahanadi	12.00	New Identified Source
22	Bhutlod Sand Quarry	Bhutlod	58	83, 85, 86, 163	Mahanadi	5.19	New Identified Source

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BHATLI TAHASIL

Sl. No.	Name of the Sand bed	Mouza	Khata No.	Plot no.	Kisam	Area in Acre (Leasable area of the plot)	Remarks
1	Kamgaon	Kamgaon	822	3701	Nadi	10.00	Already existing source
		Baulsingha	344	1400	Nadi	2.00	
2	Handasankri	Handasankri	138	53	Nadi	1.30	Already existing source
				63/966	Nadi	3.20	
				53/1064	Nadi	4.00	
				951	Nadi	3.00	
3	Mulbar	Mulbar	170	1512	Nadi	2.40	Already existing source
				1516	Nadi	5.88	
				1936	Nadi	2.50	
4	Nilji Sand Quarry	Nilji	166	159	Jore	4.84	Already existing source
5	Gopalpur Sand Quarry	Gopalpur	225	1142	Nadi	4.00	Already existing source
6	Haldipali Sand Quarry	Haldipali	84	326	NAdi	4.70	Already existing source
7	Deultunda Sand Quarry	Deultunda	124	161/675	Nadi	5.45	Already existing source
8	Behrapali Sand Quarry	Behrapali	239	1090	Nadi	12.00	New identified source
9	Bhadigaon	Bhadigaon	292	943	Nadi	4.38	New identified source
				1372	Nadi	7.60	New identified source
10	Mahada Sand Quarry	Mahada	129	488 & 489	Nadi	11.22	New identified source
11	Banjhipali	Banjhipali	286	1079	Nalia	2.00	New identified source
				1160	Nalia	2.00	
12	Halanda Sand Quarry	Halanda	111	703	Nadi	5.00	New identified source
13	Halanda Sand Quarry	Halanda	111	784	Nadi	12.355	New identified source

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PADAMPUR TAHASIL

Sl. No.	Name of the Sand bed	Mouza	Khata No.	Plot no.	Kisam	Area in Acre (Leasable area of the plot)	Remarks
1	Ghanamal Sand Bed	Ghanamal	182	583(P)	Nadi	4.00	Already existing source
2	Firupali Sand Bed	Firupali	19	144(P)	Nadi	10.00	Already existing source
3	Singhanpur Sand Bed	Singhanpur	155	398	Nadi	11.40	Already existing source
4	Deoli Sand Bed	Deoli	237	263(P)	Nadi	12.22	Already existing source
5	Lakhamara Sand Bed	Lakhamara	151	43/703	Nadi	11.00	Already existing source
6	Kumunibahali A Sand Bed (Upside of Mahulpali Bridge)	Kumunibahali	99	64 (p)	Nadi	11.00	Already existing source
7	Kumunibahali B Sand Bed (Lower side of Mahulpali Bridge)	Kumunibahali	99	64 (p)	Nadi	12.02	Already existing source
8	Dangaghat A Sand Bed	Dangaghat	172	600/979	Nadi	10.00	New identified source
9	Jamla Sand Bed	Jamla	215	1494	Nadi	10.00	New identified source
10	Lahandipur & Sambalपुरi Sand Bed	Lahandipur Sambalपुरi	72 161	327 (p) 562 (p)	Nadi Nadi	6.00 6.00	New identified source

PAIKMAL TAHASIL

Sl. No.	Name of the Sand bed	Mouza	Khata No.	Plot no.	Kisam	Area in Acre (Leasable area of the plot)	Remarks
1	Chuhapali-II Sand Bed	Chuhapali	87	1 (p)	Nadi	0.50	Already existing source
2	Nilathar Sand Bed	Nilathar	80	423 423/968 (p)	Nadi Nadi	8.00 4.32	Already existing source
3	Bartunda Sand Bed	Bartunda	179	906	Nadi	12.35	Already existing source
4	Jamseth Sand Bed	Jamseth	99	1 1/1113	Nadi Nadi	10.25 2.00	Already existing source

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5	Kuturamal Sand Bed	Kuturamal	113	590	Nadi	4.35	Already existing source
				593	Nadi	2.80	
				594	Nadi	5.15	
6	Khaira Sand Bed	Khaira	131	1607	Nadi	10.35	Already existing source
				1607/1679	Nadi	2.00	
7	Brahmandihi Sand Bed	Brahmandihi	79	154 (p)	Nadi	12.30	Already existing source
				1/ 2165	Nadi	11.89	
8	Mandiadhupa Sand Bed	Mandiadhupa	183	1/ 2166	Nadi	0.41	Already existing source
9	Muneikel Sand Bed	Muneikel	102	100	Nadi	12.30	Already existing source
				16/922	Nadi	9.60	
10	Chuhapali-I Sand Bed	Chuhapali	87	159/923	Nadi	2.75	Already existing source
11	Mundhela Sand Bed	Mundhela	105	347/819	Nadi	12.00	New identified source
12	Katangpali Sand Bed	Katangpali	89	1/787	Nadi	12.00	New identified source
				365/438	Nadi	6.00	
13	Paraskhandi Sand Bed	Paraskhandi	54	365(P)	Nadi	6.00	New identified source

BIJEPUR TAHASIL

Sl. No.	Name of the Sand bed	Mouza	Khata No.	Plot no.	Kisam	Area in Acre (Leasable area of the plot)	Remarks
1	Lemdhar Sand Bed	Lemdhar	299	1100	Nadi	16.60	Already existing Source
2	Talpadar Sand Bed	Talpadar	272	2520	Utali Jor	22.45	Already existing Source
				839/1375		4.00	
3	Cherengamunda Sand Bed	Cherengamunda	35	152		10.04	Already existing Source
4	Jaring Sand bed	Jaring	313	2158	Nadi	23.02	Already existing Source
5	Ailpur Sand Bed	Ailpur	93	719	Nadi	12.20	New Identified source

SUB-COLLECTION

8/6/2020

Addl Dist. Magistrate

8/6/2020

JHARBANDH TAHASIL

Sl. No.	Name of the Sand bed	Mouza	Khata No.	Plot no.	Kisam	Area in Acre (Leasable area of the plot)	Remarks
1	Jagdarpur Sand Quarry	Jagdarpur	51	316 (p)	Nadi	14.55	Already existing Source
2	Lergaon Sand Quarry	Lergaon	121	1125 (p)	Nadi	15.40	Already existing Source
3	Balanger Sand Quarry	Balanger	210	1121/1652 (p), 1/1773 (p)	Nadi	15.00	Already existing Source
4	Mahulpali Sand Quarry	Mahulpali	31	237	Nadi	11.00	Already existing Source
5	Chhotkunjari Sand Quarry	Chhotkunjari	93	420(p)	Nadi	12.30	Already existing Source
6	Chiroli Sand Quarry	Chiroli	43	149 (p)	Nadi	12.50	Already existing Source
7	Kumir Sand Quarry	Kumir	128	1335/1521	Nadi	12.00	Already existing Source
8	Turla Sand Quarry	Turla	138	1333	Nadi	9.71	Already existing Source
9	Badanki Sand Quarry	Badanki	129	1/1230 (p)	Nadi	12.00	Already existing Source
10	Palsada Sand Quarry	Palsada	77	336 (p)	Nadi	12.00	Already existing Source

GAISILET TAHASIL

Sl. No.	Name of the Sand bed	Mouza	Khata No.	Plot no.	Kisam	Area in Acre (Leasable area of the plot)	Remarks
1	Bheluapadar Sand Quarry	Bheluapadar	113	917	Nadi	11.40	Already existing source
2	Kalangapali	Kalangapali	182	673	Anga Nadi	10.00	Already existing source
3	Jamutpali Sand Quarry	Jamutpali	164	1	Nadi	12.00	New identified source
4	Raisalpadar Sand Quarry	Raisalpadar	135	1	Nadi	12.00	New identified source

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BARGARH

8/6/2020
Addl. Col. Bargarh

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