

DISTRICT SURVEY REPORT

ON

MINOR MINERALS

FOR

SUNDARGARH DISTRICT

2019

BY

DISTRICT LEVEL ENVIRONMENT IMPACT
ASSESSMENT AUTHORITY (DEIAA),
SUNDARGARH

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1. INTRODUCTION

Minor Minerals such as sand, ordinary stone and boulders etc. have long been used as aggregate for construction of roads, building and others developmental projects. Today, the demand for these materials continues to rise resulting huge extraction of minor minerals. Mining of minor minerals can damage private and public properties as well as aquatic habitats. Excessive removal may significantly distort the natural equilibrium. Hence sustainable & scientific method for extraction, transportation and use of minor minerals can limit the negative externalities and impact on the environment. The minor mineral resources must be utilized in environment friendly manner in scientific and systematic way and with the objective of sustainable development the policy on the subject should have provisions for environment and ecology.

Government of India in the Ministry of Environment, Forest and Climate Change have issued a notification S.O.141(E) dated 1th January,2016 with a view to streamline the process of grant of environmental clearance in favour of projects for mining of minor minerals. Accordingly, category 'B2' projects pertaining to mining of minor minerals shall require prior environmental clearance from the District Level Environment Impact Assessment Authority (DEIAA), which shall base its decision on the recommendations of District Level Expert Appraisal Committee (DEAC), for sustainable mining plan, a survey is carried out by the DEIAA with assistance of Irrigation Department, Forest Department, Public Works Department, Mining Department ect. In the District.

The District survey report shall from the basis for application for environment clearance, preparation of reports and appraisal of the projects. The report shall be updated once in every five years.


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2. OVERVIEW OF MINING ACTIVITY IN THE DISTRICT

The important minor minerals occurring in the district are ordinary stone boulder, bajri, chips, sand and morrum. Besides, a few other minerals like ordinary earth, clay and brick earth etc. are also found. The detailed account of significant minor minerals available, the working mines of each mineral, area output is given in the following table.

Table I: Mining activities in Sundargarh District

Minor Mineral	No of existing quarries	Area (Ac)	Out-put (Cum) during last three years	Value during last three years
Stone	72	475.09	1326488.14	15,07,54,790
Moorum	8	64.60	251841	26,46,058
Sand	84	829.96	660924.10	5,05,33,655
Ordinary earth	--	--	--	--
Total:-	164	1369.65	2239253.24	203934503

In Sundargarh, main sources of sand are River (river bed and flood plain) and small nallahs, Similarly, dunguri, small rocks, pather chatan etc. are the main sources of stone, ordinary boulders, bajri ect. These minor minerals are being used for construction of roads, buildings and other developmental project.

Mining/quarrying operation of minor minerals is generally governed by Odisha Minor Mineral Concession Rules, 2016. Quarry permit and quarry lease are the two modes of quarrying operation. Quarry lease shall be granted on the basis of competitive bidding mode for a period of at least five years subject to production of approved mining plan and environmental clearances and deposit of all required Govt. dues.

THE LIST OF MINING LEASES IN THE DISTRICT OF SUNDARGARH WITH LOCATION, AREA AND PERIOD OF VALIDITY

TABLE-I

STONE

Sl No.	Tah.Sl No.	Tahasil	Name of Sairat Sources	Minor Mineral Available	Village	Khata No.	Plot No.	Kisam	Area in Acre
1	1	Sadar, Sundargarh	Madhupur	Stone	Madhupur	32	187	Stone	16.87
2	2	Lephipara	Badbabga Stone Quarry	Stone	Badbabga	75	954	Patit	1.82
3						77	905		2.92
4							906		0.37
5							836		1.36
6							969		2.87
7			Mahikani Stone Quarry	Stone		46	48/619/p	P.Bani	5.00
8	3	Hemgir	Sanbalchuan-II	Stone		42	133	P.Bani	4.02
9			Kanaktora-II	Stone		202	83/1	Dungri	5.10
10	4	Balisankara	Sankarbahal	Stone		101	383	Chattan	2.23
11			Tatijore	Stone		67	655	Pathar Chattan	1.60
12			Peruabhadhi (A)	Stone	Peruabhadhi	40	516/p	Pahad	5.00
13							519/p		2.40
14							526		2.60
15	5	Subdega	Peruabhadhi (B)	Stone	Peruabhadhi	40	445/p	Pahad	1.50
16							459/p		0.50
17			Damkuda (A)	Stone	Damkuda	196	454	Nallah	3.26
18							455	Goda-II	0.38
19							456	Goda-II	0.13
20			Rajgangpur-III	Stone	Rajgangpur	379	985/p	Pahad	2.00
21			Rajgangpur-IV	Stone	Rajgangpur	379	1063		4.65
22			Jouramal	Stone	Jouramal	165	1133/1570/p	Dungri	10
23			Kutunia	Stone	Kutunia	443	2214	Patit	2.18
24							2216		1.86
25			Bhagattola	Stone	Bhagattola	169	360/p	Pahad	5.00
26			Ramlata	Stone	Ramlata	37	25/p	Pahad	7.00
27	6	Rajgangpur	Kansbahal	Stone	Kansbahal	132	1914	Dungri	7.69

18			Barangkhol	Stone	Barangkhol	379	1410/289/p	Goda-II	5.00
19			Raikakachhar	Stone	Raikakachhar	155	1131	Chatan	3.20
20			Sunakhandi	Stone	Sunakhandi	73	928	Dungri	10.00
21			Rajgangpur-I	Stone	Rajgangpur	379	985/p	Pahad	4.50
22			Rajgangpur-II	Stone	Rajgangpur	379	985/p	Pahad	4.00
23			Kumarkela-II	Stone	Kumarkela	413	3159/p	Pahad	2.10
24	7	Kuarmunda	Besrapara Kudabeda	Stone	Besrapara	40	16	Pathar Bani	4.75
						94	17		1.84
25			Dumangdiri-I	Stone	Dumangdiri	94	428/675	Patit	15.89
						72	318/1	Patit	12.69
26			Jamankera	Stone	Jamankera	41	4/654	Tungri	8.00
27			Rithatoli	Stone	Rithatoli	137	1028	Pathar Bani	5.00
28	8	Biramitrapur	Joketa	Stone	Joketa	109	14/943	Pathar Chatan	12.00
29			Sorda-I	Stone	Sorda	128	829	Nadi	3.90
30			Sorda-II	Stone	Sorda		813		0.70
31			Bisnur	Stone	Bisnur				0.33
32			Mahiberna	Stone	Mahiberna	246	1518	Tungri	2.00
33			Dumerta-I	Stone	Dumerta	246	1362	Tungri	4.20
34			Kudarbahal-III	Stone	Kudarbahal	109	1023	Tungri	6.00
35			Mochikucha	Stone	Mochikucha	28	121/181	Goda	2.1
36	9	Bisra	Kudarbahal-I	Stone	Kudarbahal	114	374/p		1.50
37			Kudarbahal-II	Stone	Kudarbahal		366/p		4.50
38			Mahipani	Stone	Mahipani	36	233/p	Tungri	3.00
39			Bhalulata	Stone	Bhalulata	13	5	Patit	1.10
40			Birkera	Stone	Birkera	33	232/363	Patit	2.00
41			Dumerta-II	Stone	Dumerta	36	233/1		3.00
42			Koparanda	Stone	Koparanda	33	232/3962	Patit	5.00
						145	140	P.Chatan	1.20
						150	53/p	Patit	7.50
						79	672/1176	Patit	4.00
						114	374/p	Patit	4.55
							366/p		0.17
							314/p		1.38
						133	377/p	Patit	12.00

43	10	Rourkela	Jharbahal -I	Stone	Jharbahal	25	280/p	Pahad	12.00
44			Jharbahal -II	Stone	Jharbahal	25	281/p	Pahad	5.30
45			Tangarpali	Stone	Tangarpali	82	431/p	Pahad	4.00
47			Jalda	Stone	Jalda	120	48/3828/3829	Patit	11.9
48			Balanda	Stone	Balanda	504	1897/p	Parbata	10.5
49			Balanda	Stone	Balanda	504	1897/p	Parbata	12
50			Balanda	Stone	Balanda	504	1893/p	pahad	10
51			Balanda	Stone	Balanda	504	1899/p	Parbata	11.5
52			Balanda	Stone	Balanda	504	2009/p, 2010/p	Pahad	10
53	11	Lathikata	Balanda	Stone	Balanda	504	1890/p	Pahad	10
54			Balanda	Stone	Balanda	504	2473/p	Patit	10
55			Balanda	Stone	Balanda	238	2292/p	Patit	7
56			Balanda	Stone	Balanda	238	2292/p		12.05
57			Asurchapal	Stone	Asurchapal	112	385/p	Pahad	5
58			Garjan	Stone	Garjan	205	109	Pahad	2.6
59			Garjan	Stone	Garjan	205	113/1	Pathar chatan	3.55
60			Thiaberna-I	Stone	Thiaberna	67	750/p	Pathar Chatan	0.50
61			Thiaberna-II	Stone	Thiaberna	66	698/p	Patit	1.00
62	12	Lahunipara	Jamirdihi	Stone	Jamirdihi	35	72/544	Patit	8.00
63			Daleisara	Stone	Daleisara	4	74	Patit	9.38
64			San Tikayatpali	Stone	San Tikayatpali	6	4	Pahad	5.00
65			Toda	Stone	Toda	84	647	P.Chatan	10.00
66			Thelakudar	Stone	Thelakudar	32	112	Patit	1.74
67	13	Koida	Sianbahal	Stone	Sianbahal	21	30	Dungri	9.00
68			K.Balang	Stone	K.Balang	107	853	Patit	0.25
69			Katuridhua- II	Stone	Katuridhua	65(AAA)	492/p	P.Tungri	4.38
70	14	Gurundia	San-Musaposh	Stone	San-Musaposh	4(AAA)	2/p	Pahad	17.03
71			Bad-Bhulata	Stone	Bad-Bhulata	48(AAA)	43/1	Dungri	2.00
72	15	Bonai	Chandrapur	Stone	Chandrapur	88	141/p	Hudi	10.00

SAND

Sl No.	Tah.Sl No.	Tahasil	Name of Sairat Sources	Minor Mineral Available	Village	Khata No.	Plot No.	Kisam	Area in Acre
1	1	Sadar	Nua Amlipali	Sand	Nua Amlipali	381	475 & 476/1211	River	12.88
2			Kaintara	Sand	Kaintara	76	756/797	River	3.52
3			Samina	Sand	Samina	107	1/1	River	2.40
4			Lankahuda	Sand	Lankahuda	150	1/1	River	4.90
5			Badkachhar	Sand	Badkachhar	119	1783	River	10.87
6			Bhasma	Sand	Bhasma	138	1384/1	River	9.30
7			Chitabhanga	Sand	Chitabhanga	474	2413/1	River	10.20
8	2	Tangarpali	Bilaigarh	Sand	Bilaigarh	217	1240/1	Nadi	5.00
9			Surda	Sand	Surda	126	1186/1	Nadi	3.50
10			Jamunadhipa	Sand	Jamunadhipa	38	290/1	Nadi	3.00
11			Telipali	Sand	Telipali	171	991	Nadi	2.70
12			Kurga	Sand	Kurga	201	2447/p	Nadi	3.70
13			Ergapita	Sand	Ergapita	34	220/p	Nadi	10.00
14			Abankela	Sand	Abankela	175	996/101	Nadi	14.50
15			Nadisuguda	Sand	Nadisuguda	113	338/1350	Nadi	13.50
16			Daldali	Sand	Daldali	153	1492/1652	Nadi	13.30
17			Lemlema	Sand	Lemlema	186	132/1645	Nadi	4.00
18			Tangarpali	Sand	Tangarpali	189	826/p	Nadi	2.00
19			Ratanpur	Sand	Ratanpur	107	577/1157	Nala	2.50
20			Kurga	Sand	Kurga	201	1991	Nala	1.00
21			Mangaspur	Sand	Mangaspur	432	1314/1	Jore	1.50
22			Kurla	Sand	Kurla	168	1720	Jore	2.29
23	3	Lephripara	Lephripara Sand Bed	Sand	Lephripara	245	1680/1	Nadi	18.48
24			Chhatenpali Sand Bed	Sand	Chhatenpali	140	1686/2145		2.18
25			Suruguda Sand Bed	Sand	Suruguda	173	277/1193	Nadi	15.01
26	4	Balisankara	Ghoghar	Sand	Ghoghar	171	607	Nadi	48.13
27			Kusumura	Sand	Kusumura	203	457	Nadi	7.00
28			Bankidihi	Sand	Bankidihi	48	1281/p	Nadi	10.00
							270/457	Nadi	10.45

29	5	Subdega	Sublaya	Sand	Sublaya	153	1	Jore	6.8
30									0.54
31							8		7.23
32							439		3.11
33							491		5.00
34	6	Bargaon	Jaiser	Sand	Jaiser	190	1/p	Nadi	9.00
35			Gailo	Sand	Gailo	145	1038/p	Nadi	12.00
36			Kanika	Sand	Kanika	67	814/831	Nadi	10.00
37			Bhojpur	Sand	Bhojpur	69	1/p	Nadi	12.00
38			Malidihi	Sand	Malidihi	49	1/p	Nadi	12.00
39	7	Kutra	Barpali	Sand	Barpali	64	387/p	Nadi	0.50
40			Fulbari	Sand	Fulbari	63	1/1	Nadi	2.00
41			Kureibaga	Sand	Kureibaga	101	1/1	Nadi	2.00
42			Kureibaga-II	Sand	Kureibaga	101	751/1	Nadi	2.00
43			Kharikamunda	Sand	Kharikamunda	171	1453/1483/1	Nadi	1.00
44	8	Raigangpur	Tarkera	Sand	Tarkera	117	1185/1	Nadi	5.00
45			Chungimati	Sand	Chungimati	155	528/p	Jala Bhandar	9.10
46			Kuarmunda	Sand	Kuarmunda	92	528/1304	Nadi	3.50
47			Bijubandh	Sand	Bijubandh	58	568/p	Nadi	8.00
48			Pasara	Sand	Pasara	397	507/p	Nadi	7.00
49	9	Kuarmunda	Padampur	Sand	Padampur	81	2876/p	Nadi	12.00
50			Jamunanaki-I	Sand	Jamunanaki	38	2879/p	Nadi	8.00
51			Jamunanaki-II	Sand	Jamunanaki	75	216/p	Nadi	13.00
52			Bartoli	Sand	Bartoli	75	838/p	Nadi	13.00
53			Ghoghar	Sand	Ghoghar	84		Nadi	23.00
54	10	Biramitrapur	Raiboga	Sand	Raiboga	84	1/p	Nadi	17.00
55			Indrapur	Sand	Indrapur	37	1/p	Nadi	16.10
56			Jahartoli	Sand	Jahartoli	367	1847/2555	Nadi	6.00
57			Teterkela	Sand	Teterkela	70	404/785	Nadi	12.00
58			Lankoi	Sand	Lankoi	67	460/1	Nadi	3.16
59	11	Goppur	Goppur	Sand	Goppur	84	526/527/p	Nadi	9.00
60						137	712/1459	Nadi	16.34
61						102	638	Nadi	8.12
62								Nadi	8.00
63								Nadi	8.00

56			Jharbada		Sand	Jharbada	59	346/p	Nadi	5.00
57			Dhodhari		Sand	Dhodhari	82	550/p	Nadi	12.00
58			Jamsera		Sand	Jamsera	38	59/331/p	Nadi	4.00
59	11	Bisra	Kundaposh		Sand	Kundaposh	34	1/386/p	Nadi	2.00
60			Khatangkudar		Sand	Khatangkudar	21	9/43	Nadi	2.00
61			Jhirpani		Sand	Jhirpani	211	1593/1750	Nadi	2.00
62			Tarkera -I		Sand	Tarkera	109	410/552/p	Nadi	3.52
63	12	Rourkela	Tarkera -II		Sand	Tarkera	109	410/549/p	Nadi	3.66
64			Tarkera -III		Sand	Tarkera	22	73/541	Nadi	0.95
66			Tumkela		Sand	Tumkela	2	410/552/p	Nadi	3.97
67			Luakera		Sand	Luakera	78	461/553/p	Nadi	8.00
68			Kansar		Sand	Kansar	94	424/1289/p	Nadi	12.00
69			Attaghat		Sand	Attaghat	61	312/339	Nadi	12.00
70			Bhalupatra		Sand	Bhalupatra	46	328/757	Nadi	12.00
71			Beldihi-I		Sand	Beldihi	146	211/p	Nadi	13.00
72			Beldihi-II		Sand	Beldihi	146	484/1566/p	Nadi	18.00
73			Kalokudar		Sand	Beldihi-II	146	1/1 & 1/2	Nadi	11.00
74			Lungei		Sand	Kalokudar	43	40/p	Nadi	10.00
75			Tumkela		Sand	Lungei	80	1/p	Nadi	10.00
76			Birtola		Sand	Tumkela	1	296/p	Nadi	6.000
77			Digi		Sand	Birtola	1	1/p	Nadi	10.00
78	14	Lahunipara	Suarpali		Sand	Digi	1	31/p	Nadi	12.15
79			Poigaon		Sand	Suarpali	1	27	Nadi	29.65
80			Narendra-II		Sand	Poigaon	1	92/p	Nadi	12.35
81	15	Gurundia	Baliatota		Sand	Narendra	1	84/p	Nadi	12.35
82			Kolhasahi		Sand	Baliatota	1	78/p	Nadi	10.00
83	16	Bonai	Deogaon		Sand	Kolhasahi	1	18/p	Nadi	19.80
84					Sand	Deogaon	1	6/p	Nadi	5.00
					Sand		1	57	Nadi	29.10
					Sand		1	10	Nadi	4.15

MOORUM

Sl No.	Tah.Sl No.	Tahasil	Name of Sairat Sources	Minor Mineral Available	Village	Khata No.	Plot No.	Kisam	Area in Acre
1	1	Lahunipara	Gadruan	Morrum	Gadruan	123	545	Gochar	13.42
2	2	Biramitrapur	Kumbhardihi	Morrum	Kumbhardihi	50	53	Patit	5.00
3	3	Balisankara	Raiboga	Morrum	Raiboga	367	769/1	Pahad	9.28
4	4	Balisankara	Budabahal	Morrum	Budabahal	279	101	Gochar	11.7
5	5	Kutra	Deobhubanpur	Morrum	Deobhubanpur	351	2317	Patit	1.6
6	6	Rajgangpur	Dahijira	Morrum	Dahijira	292	541	P.Bani	8.80
7	7	Subdega	Dhaurada	Morrum	Dhaurada	292	541	P.Bani	8.80
			Rasraipur	Morrum	Rasraipur	270	1769/P	Patit	6.00


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DETAILS OF ROYALTY OR REVENUE RECEIVED IN LAST THREE YEARS.

(STONE QUARRY)

Sl.No.	Tah. SI No.	Name of the Tahasil	Name of the Sairat Source	Type of minor minerals	Income generated in the last three years		
					2016-17 5	2017-18 6	2018-19 7
1		2	3	4			
1	1	Sadar, Sundargarh	Madhupur	Stone	228532.00	100000.00	0.00
2	2	Lephipara	Badbabga Stone Quarry	Stone	224032.00	257637.00	1256250.00
3			Mahikani Stone Quarry	Stone	0.00	0.00	0.00
4	3	Hemgir	Sanbalchuan-II	Stone			0.00
5			Kanakatora-II	Stone			0.00
6	4	Subdega	Peruabhadhi (B)	Stone	15150964.00	26294894.00	834300.00
7			Peruabhadhi (B)	Stone	0.00	0.00	0.00
8			Damkuda (A)	Stone	0.00	0.00	0.00
9			Rajgangpur-III	Stone	359950.00	480276.00	494840.00
10			Rajgangpur-IV	Stone	387231.00	483309.00	483309.00
11			Jouramal	Stone	0.00	0.00	0.00
12			Kutunia	Stone	615004.00	627412.00	163307.00
13			Bhagattola	Stone	0.00	402817.00	250590.00
14			Ramlata	Stone	0.00	0.00	827858.00
15			Kansbahal	Stone	0.00	0.00	1005025.00
16			Barangakhoh	Stone	868027.00	0.00	0.00
17			Raikakachhar	Stone	778050.00	527774.00	0.00
18			Sunakhandi	Stone	0.00	0.00	264900.00
19			Rajgangpur-I	Stone	0.00	0.00	264900.00
20			Rajgangpur-II	Stone	0.00	0.00	0.00
21			Kumarkela-I	Stone	0.00	0.00	0.00
22			Kumarkela-II	Stone	0.00	0.00	0.00
23			Besrapara Kudabeda	Stone	4395307.00	0.00	1979442.00
24	6	Kuarmunda	Dumangdiri-I	Stone	0.00	0.00	0.00
25			Dumangdiri-II	Stone	0.00	0.00	0.00
26			Jamankera	Stone	0.00	0.00	0.00
27			Rithatoli	Stone	0.00	0.00	0.00

28	7	Biramitrapur	Joketa	Stone	0.00	0.00	0.00
29			Bispu	Stone	0.00	0.00	0.00
30			Sorda-I	Stone	0.00	0.00	0.00
31			Sorda-II	Stone	0.00	0.00	0.00
32			Mahiberna	Stone	0.00	0.00	0.00
33			Dumerta-I	Stone	0.00	0.00	0.00
34			Kudarbahal-III	Stone	127000.00	139000.00	141000.00
35			Mochikucha	Stone	236000.00	251000.00	236000.00
36			Kudarbahal-I	Stone	230000.00	330000.00	300000.00
37	8	Bisra	Kudarbahal-II	Stone	0.00	0.00	0.00
38			Mahipani	Stone	262000.00	300100.00	300100.00
39			Bhalulata	Stone	168000.00	189000.00	211000.00
40			Birkera	Stone	0.00	0.00	0.00
41			Dumerta	Stone	0.00	0.00	0.00
42			Koparanda	Stone	0.00	0.00	0.00
43			Jharbahal -I	Stone	175000.00	533000.00	191000.00
44	9	Rourkela	Jharbahal -II	Stone	0.00	656575.00	1626958.00
45			Tangarpali -I	Stone	0.00	254990.00	673090.00
46			Jalda	Stone	154500.00	204750.00	204750.00
47			Balanda	Stone	2500000.00	0.00	1537380.00
48			Balanda	Stone	2772000.00	0.00	4566600.00
49			Balanda	Stone	2079000.00	0.00	6040635.00
50			Balanda	Stone	1850450.00	0.00	2456900.00
51			Balanda	Stone	633600.00	0.00	3395925.00
52	10	Lathikata	Balanda	Stone	0.00	8487072.00	14135532.00
53			Balanda	Stone	625250.00	934500.00	655750.00
54			Balanda	Stone	556400.00	709800.00	750750.00
55			Balanda	Stone	393932.00	0.00	5815465.00
56			Asurchapal	Stone	0.00	4013700.00	4171100.00
57			Garjan	Stone	0.00	556000.00	583800.00
58			Garjan	Stone	134640.00	191140.00	242424.00
59			Thiaberna-I	Stone	198000.00	187680.00	193200.00
				Stone	125000.00	127000.00	126000.00

60			Thiaberna-II		Stone	375000.00	511000.00	500100.00
61	11	Lahunipara	Jamirdihi		Stone	0.00	0.00	0.00
62			Daleisara		Stone	19000.00	80000.00	0.00
63			San Tikayatpali		Stone	412000.00	1338000.00	0.00
64			Toda		Stone		543456.00	543456.00
65	12	Koida	Thelakudar		Stone			173967.00
66			Sianbahal		Stone		1826820.00	1826820.00
67			K.Balang		Stone	0.00	0.00	20.00
68			Katuridhua- 2		Stone	102112.00	102112.00	102112.00
69	13	Gurundia	San-Musaposh		Stone	510818.00	715149.00	715149.00
70			Bad-Bhulata		Stone	84876.00	0.00	0.00
71	14	Bonai	Chandrapur		Stone	0.00	0.00	425448.00

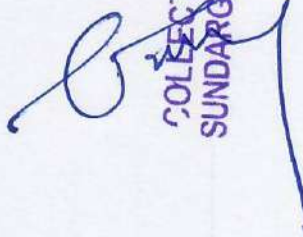
DETAILS OF ROYALTY OR REVENUE RECEIVED IN LAST THREE YEARS. (SAND QUARRY)

Sl.No.	Tah. SL No.	Name of the Tahasil	Name of the Sairat Source	Type of minor minerals	Income generated in the last three years		
					2016-17	2017-18	2018-19
1		2	3	4	5	6	7
1	1	Sadar	Nua Amlipali	Sand	477019.70	381290.80	384238.00
2			Kaintara	Sand	354336.00	552950.00	272835.00
3			Samina	Sand	289429.00	217782.30	221382.00
4			Lankahuda	Sand	236537.40	185466.56	187666.00
5			Badkachhar	Sand	254676.00	207736.00	230316.00
6			Bhasma	Sand	310207.5	910979.75	253381.00
7			Chitabhanga	Sand	269241.10	214055.15	218946.00
8	2	Tangarpali	Bilaigarh	Sand	91930	91930	44315
9			Surda	Sand	28950	28950	0
10			Jamunadhipa	Sand	28950	28950	0
11			Telipali	Sand	28950	28950	14025
12			Kurga	Sand	195137	195137	146354
13			Ergapita	Sand	131700	187880	0
14			Abankela	Sand	210419	420838	0
15			Nadisuguda	Sand	0	165315	0
16			Daldali	Sand	322198	483294	0
17			Lemlema	Sand	0	0	0
18			Tangarpali	Sand	0	0	0
19			Ratanpur	Sand	0	0	0
20			Kurga	Sand	0	0	0
21			Mangaspur	Sand	0	0	0
22			Kurla	Sand	0	0	0
23	3	Lephripara	Basundhara Sand Bed	Sand	0.00	0.00	0.00
24			Sargipali Sand Bed -I	Sand	0.00	0.00	0.00
25			Sargipali Sand Bed -II	Sand	0.00	0.00	0.00
26			Daripali Sand Bed	Sand	0.00	0.00	0.00
27			Lephripara Sand Bed	Sand	0.00	0.00	0.00
28			Chhatenpali Sand Bed	Sand	0.00	0.00	0.00

			Suruguda Sand Bed						
29									
30									
31	4	Balisankara	Ghoghar (B)	Sand		0.00	0.00	0.00	52200.00
32			Kusumura	Sand		0	210000		210000
33			Bankidihi	Sand		0	0	0	0
34			Sublaya	Sand		0	0	0	0
35			Jaiser	Sand		0.00	0.00	0.00	0.00
36	5	Subdega	Gailo	Sand		0.00	600000.00		0.00
37			Kanika	Sand		0.00	780000.00		780000.00
38			Bhojpur	Sand		405000.00	632500.00		747500.00
39			Malidihi	Sand		7404.00	0.00		0.00
40			Barpali	Sand		648000.00	1113750.00		0.00
41	6	Bargaon	Fulbari	Sand		16646.00	20465.00		20857.00
42			Kureibaga	Sand		42536.00	52056.00		52448.00
43			Kureibaga-II	Sand		34741.00	42256.00		42648.00
44	7	Kutra	Kharikamunda	Sand		35562.00	43278.00		43670.00
45	8	Raigangpur	Tarkera	Sand		33587.00	40766.00		41158.00
46			Chungimati	Sand		376460.00	108233.00		0.00
47			Kuarmunda	Sand		0.00	0.00		0.00
48	9	Kuarmunda	Bijubandh	Sand		237238.00	114770.00		167696.00
49			Pasara	Sand		131822.00	186036.00		197444.00
50			Padampur	Sand		74045.00	74112.00		158501.00
51			Jamunanaki-I	Sand		910479.00	769614.00		729650.00
52			Jamunanaki-II	Sand		708152.00	334676.00		292110.00
53	10	Biramitrapur	Bartoli	Sand		512392.00	790436.00		1335600.00
54			Ghoghar	Sand		0.00	0.00		0.00
55			Raiboga	Sand		0.00	0.00		0.00
56			Indrapur	Sand		0.00	0.00		0.00
57			Jahartoli	Sand		0.00	0.00		0.00
58			Teterkela	Sand		221601.00	180702.00		0.00
59			Lankoi	Sand		449370.00	373200.00		394002.00
60			Goppur	Sand		188780.00	174478.00		0.00
61			Jharbeda	Sand		0.00	0.00		0.00
			Dhodhari	Sand		0.00	0.00		0.00

62	11	Bisra	Jamsera-I	Sand	134000.00	439000.00	459000.00
63			Kundaposh	Sand	0.00	0.00	0.00
64			Khatangkudar	Sand	109000.00	125000.00	165000.00
65			Jamsera-II	Sand	0.00	0.00	0.00
66			Tarkera- I	Sand		350000	600000
67			Tarkera- II	Sand	0	0	380300
68			Tarkera- III	Sand	0	0	0
69			Tumkela	Sand	235590	298549	298549
70			Luakera	Sand	0	325108	557818
71			Kansar	Sand	548080.00	548080.00	548080.00
72			Attaghat	Sand	392000.00	392000.00	392000.00
73			Bhalupatra	Sand	0.00	0.00	0.00
74			Beldihi	Sand	385000.00	0.00	0.00
75			Beldihi	Sand	385000.00	0.00	0.00
76			Beldihi-II	Sand	0.00	121365.00	121365.00
77			Kalokudar	Sand	1015100.00	0.00	0.00
78			Lungei	Sand	0.00	0.00	0.00
79			Tumkela	Sand	475000	614000	2350000
80			Birtola	Sand	742000	742000	742000
81			Digi	Sand	193000	273000	193000
82			Suarpali	Sand	366000	426000	247000
83			Poigaon	Sand	48000	400200	900700
84	15	Gurundia	Narendra- 2	Sand	1598917.00	1598917.00	1598917.00
85			Baliatota	Sand	0	0	0
86	16	Bonai	Kolhasahi	Sand	302250	236250	236250
87			Deogaon	Sand	202500	120000	157500

DETAILS OF ROYALTY OR REVENUE RECEIVED IN LAST THREE YEARS.									
(MORRUM QUARRY)									
Sl.No.	Tah. SI No.	Name of the Tahasil	Name of the Sairat Source	Type of mininor minerals	Invome generated in the last three years			2018-19	
					2016-17	2017-18	2018-19		
1		2	3	4	5	6	7		
1	1	Kutra	Dahijira	Moorum	0	0	0		
2	2	Rajgangpur	Dhaurada	Moorum	438629.00	1161382.00	94955.00		
3	3	Biramitrapur	Raiboga	Moorum	0.00	0.00	0.00		
4	4	Lahunipara	Gadruan	Moorum	0.00	0.00	0.00		
			Kumbhardihi	Moorum	0.00	0.00	0.00		
5	5	Subdega	Rasrajpur	Moorum	0.00	0.00	951092.00		


 COLLECTOR
 SUNDAR GARH

5. DETAILS OF PRODUCTION FOR SAND, BAJRI OR MINOR MINERALS IN THE LAST THREE YEARS.

Minor Minerals	Quantity of minor minerals lifted during last three years (in CuM)		
	2016-17	2017-18	2018-19
Sand	209892.90	201999.10	249032.10
Moorum	7707	27022	217112
Stone	240531.5	271272	814684.64
Chips	22550	27547	16856
Boulder	27962	15481	58255

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

Almost all the rivers passing through this district are originating from hilly plateau of Chhattisgarh and Madhyapradesh and run in hilly rocky area having steep gradient. Due to this steep gradient these rivers run with high velocity in their initial reaches, thus eroding the rocky bed materials and carrying downstream. During flow downstream, the eroded materials get further disintegrated due to abrasion and this process goes on. These disintegrated materials are of various sizes and those are deposited in process of sedimentation according to their size and weight at different places where the carrying velocity of the river is insufficient. In this district the gradient of rivers are medium to semi flat. So the maximum portion of deposition is coarse to medium grained sand, scarcely mixed with small pebbles at few stretches of major rivers.


COLLECTOR
SUNDARGARH

7. GENERAL PROFILE OF THE DISTRICT

Sundargarh district forms the North western part of Odisha state. The district spreads from 21'36' N to 22'32' N latitudes and from 83' 32' E to 85' to 22'E longitudes. Sundargarh , also spelled as Sundargarh in some of the documents of the Government. Its official website address is www.sundargarh.nic.in. It is bound by Raigarh district of Chhattisgarh in the West, Jashpur district of Chhattisgarh in the North- West, Simdega district of Jharkhand in the North, West Singhbhum district of Jharkhand State and Keonjhar, Sambalpur, Deogarh and Angul districts of Odisha in the South-East. The town of Sundargarh is the district headquarters.

Sundargarh district is the Second largest district in the state accounting for 6.23% of the total area of the state. Geographical Area of the district is 9712 km. The district is divided into three Sub-Divisions, viz, Sundargarh, Panposh and Bonai. Of these, two Sub-Divisions, viz, Sundargarh and Panposh originally belonged to the ex-State of Gangpur while the whole of Bonai ex-State became the third Sub-Division. Except Panposh which has its headquarters at Uditnagar, the other two Sub-Divisions are named after their respective headquarters; Bonai derives its name from its forests (Bono in Oriya means Forest) covering almost nine-tenth of its area.

At present, there are 18 Tahasil and 102 Revenue Circles, 17 Panchayat Samities and 262 Gram Panchayats, 1 Municipality corporation, 3 Municipalities. There are two Police districts, i.e. Sundargarh and Rourkela with 38 Police Stations in total.


COLLECTOR
SUNDARGARH

8. LAND UTILISATION PATTERN IN THE DISTRICT

The best cultivated lands of Sundargarh are located along the valleys of the two main rivers, the Bramhani and IB and their tributaries viz., the Sankha the Koel, the Safai, the Ichha etc. The cultivable area of the district is 6,72,000 hect., out of which percentage of land under highland, medium land and low land are respectively 0%, 27.7% and 22.3%. As in 2011, the net area sown in the district was 3,32,056 hect., which constitute 49.4% of the gross cultivable area. The land use pattern of the district out of the surveyed area of 715280 hect. and 715256 hect. In 2009-10 and 2010-11 respectively, is given in the following table. The detailed Block and ULB-wise land use pattern is elaborated in TABLE.

Year	2009-10		2010-11	
Land use	Area in Ha	% of surveyed area	Area in Ha	% of surveyed area
Forest	176151	24.63	152013	21.25
Land put to non-agriculture use	67568	9.45	72033	10.07
Barren and non-cultivable land	60788	8.50	63222	8.84
Permanent pastures and other grazing land	35324	4.94	34230	4.79
Land under Misc. tree crop & grooves, not included in net area sown	1484	0.21	2206	0.31
Cultivable waste	40313	5.64	45154	6.31
Old fallows	48007	6.71	54575	7.63
Current fallows	64937	9.08	61549	8.61
Net area sown	220708	30.86	230274	31.19

9. PHYSIOGRAPHY OF THE DISTRICT

Being the part of the Chhota- Nagpur Plateau, major parts of the district has rough and hilly terrain and rich in mineral resources as well. Hills of Sundargarh district may be classified in to three broad categories, Bonai hills, Sundargarh hills, Biramitrapur hills. The Bonai hills which further elongate into the Keonjhar district are known for their iron ore resources, whereas Sundargarh hills famous for coal deposits, which further elongate into Jharsuguda district and Chhatisgarh state as well.

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

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

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

The territory covered by Sundargarh and Panposh Sub-Divisions (comprising the ex-State of Gangpur) consists of a long undulating table-land about 700ft. (213) above the sea level dotted with hill ranges and isolated peaks of considerable height. On the West of Sundargarh Sub-Division lies the Hemgir Plateau, nearly 1150 ft (351m) high, in the centre of which is located the village Hemgir. To the North of Hemgir the land is considerably hilly while to the South it is relatively plain with a minimum elevation of 709 ft (516m) near the Chuanbahal village. The eastern tract of the Sub-Division intervening between Chota Nagpur plateau and Mahavir range, for the most part, is open and well cultivated, the general elevation of which varies from 700' to 1000' (213m TO 305m) but that of

the reserved forests except, of course, a few patches, comes under 1000' to 1500' (305m to 457m). Besides, numerous isolated hills and sharp ranges running generally East to West are also evenly distributed throughout the country. On the North the Chota Nagpur plateau with its foot-hills gradually falls away to the plain while the Mahavir range in the South, springs abruptly in an irregularly wall of tilted and disrupted rock and forms for some length the boundary between Sambalpur and this district. On the southern border, dense forests linking up with the forest-clad ranges of Bonai Sub-Division are also seen. Didhrapahar, the highest peak 2509' (765m) of Sundargarh Sub-Divisiion is located near the tri-junction of Sundargarh Sub-Division , Bonai Sub-Division and Sambalpur district.

The block to the North formed by the broad valleys of the Sankh, the South Koel and the Deo, although interspersed with isolated hills and series of small ridges striking East and West, is generally plain, but the tract to the South is comparatively more hilly and wooded excepting the valley of the Brahmani which extends to an appreciable distance South of Panposh. The region extending from South of Bisra to South of Chirobeda is much broken and hilly, it raises along the Singhbhum and Bonai boundaries to an elevation of 1800' to 2000' (549m) to (610M) the highest peak being Bhaisamunda Pahar 2234' (681m). In the plains the elevation is about 600' to 700' (183m to 213m) the lowest point on the Brahmani vally on the Bonai border near Banki village being 575' (175m). The land is completely denuded of its fertility and is unsuitable for cultivation.

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

10 RAINFALL OF SUNDARGARH DISTRICT: MONTH- WISE

DISTRICT RAINFALL (mm) FOR LAST THREE YEAR

Note:-

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

(2) Black Spaces show non-availability of Data.

Month	Year wise rainfall in mm			
	2016	2017	2018	2019
Jan	6.02	3.32	Nil	8.45
Feb	18.56	Nil	0.74	38.82
Mar	11.62	0.41	1.16	28.82
April	Nil	0.45	38.2	37.98
May	23.31	46.77	106.04	25.91
June	90.4	230.77	150.91	119.82
July	330.12	499.18	311.86	221.84
Aug	307.08	260.06	403.33	447.78
Sept	233.62	183.39	203.06	313.29
Oct	31.34	60.44	10.47	66.75
Nov	Nil	3.25	Nil	
Dec	Nil	Nil	86.52	
Total:-	1052.07	1288.04	1312.29	1309.46


COLLECTOR
SUNDARGARH

DRAINAGE SYSTEM WITH DESCRIPTION OF MAIN RIVERS

SI No.	Name of the River	Area Drained (Sq.Km)	% Area Drained in the District
1	IB	7623.00	38.16
2	Madalghat Nallah Sukhajore	27.00	100.00
3	Safai	1102.25	100.00
4	Ustalli Nallah	50.00	100.00
5	Gahirajore Nallah	45.00	100.00
6	Sarswati Nallah	26.00	100.00
7	Ichha	400.00	100.00
8	Sankha	10835.00	12.69
9	Koel	12230.00	9.57
10	Badjore Nallah (Sankh)	35.00	100.00
11	Deo Nallah	132.00	31.50
12	Brahamani River	26190.00	11.93
13	Siudhi Nallah	18.50	100.00
14	Kuradi Nallah	32.00	100.00
15	Amruti Nallah	42.00	100.00
16	Saplata Nallah	22.00	100.00
17	Rukura Nallah (Down stream of Rukura Reserver)	32.00	100.00


COLLECTOR
SUNDARGARH

SAND

Sl No.	River or Stream	Name of the Sources	Portion of the river or stream recommended for mineral concession	Length of area recommended for mineral concession (in kilometer)	Average width of area recommended for mineral concession (in meters)	Area recommended for mineral concession (in square meter)	Mineable mineral potential (in metric tonne) (50% of total mineral potential)
1	River, Kansar	Kansar	Ac- 13.00, Khata No- 94, Plot No- 211/P		0.0003	52609.1	10,538.40
2	River, Attiaghat	Attiaghat	Ac- 18.00, Khata No- 61, Plot No- 484/566		0.0006	72843.4	8000
3	River, Bhalupatra	Bhalupatra	Ac- 11.00, Khata No- 46, Plot No- 1/1, 1/2		0.0025	44515.4	15000
4	River, Beldihi	Beldihi	Ac- 10.00, Khata No- 146, Plot No- 40/P		0.001	40468.6	10100
5	River, Beldihi	Beldihi	Ac- 10.00, Khata No- 146, Plot No- 1/P		0.0005	40468.6	1740
6	River, Kalokudar	Kalokudar	Ac- 6.00, Khata No- 43, Plot No- 296/3		0.0015	24281.1	10000
7	River, Lungei	Lungei	Ac- 10.00, Khata No- 80, Plot No- 1/P		0.0015	40468.6	4001
8	River, Brahmani	Kolasahi	Ac- 11.76, Khata No- 1 Plot No- 60/P			47696	9760.50
9		Deogaon	Ac- 1.67, Khata No- 1 Plot No- 32/P			6799	2978.76
10		Baliatota	Ac- 13.16, Khata No- 1 Plot No- 56/P			53400	25738.8
11		Sabara	Ac- 11.90, Khata No- 36 Plot No- 15/551/P			48279	23270.47
12	River, IB	Sangagua	Ac- 6.00, Khata No- 1 Plot No- 116/p & 117/p			27900	13447.8
13		Subalaya	Ac- 12.12, Khata No- 153 Plot No- 118/1314, 439, & 491/p			49047.9	12252.44
14		Jaisar	Ac- 10.40, Khata No- 190 Plot No- 1/1 & 113/1			42087.31	28920
15		Gailo	Ac- 9.00, Khata No- 145 Plot No- 1038/p			36421.7	28920
16		Bhojpur	Ac-46.25, Khata No- 69 Plot No- 1			187167.11	145638.71

17		Kanika	Ac-12.00, Khata No- 67 Plot No- 814/831				48562.3	150015.27
18		Malidihi	Ac-12.00, Khata No- 49 Plot No- 1/p				48562.3	194342.4
19	Sanka	Tarkera	Ac-12.60, Khata No- 155 Plot No- 528/p & 528/1304				38500	11550
20		Nua-Amlipali	Ac-12.880, Khata No- 381 Plot No- 475 & 476/1211				12.880	3010
21		Chhitabhanga	Ac-10.200, Khata No- 474 Plot No- 2413/1				10.200	1869
22	River, IB	Lankahuda	Ac-4.900, Khata No- 150 Plot No- 1/1				4.900	2037
23		Samina	Ac-2.40, Khata No- 107 Plot No- 1/1				2.40	2021.7
24		Bhasma	Ac-9.300 Khata No- 138 Plot No- 1384/1				9.300	4035.8
25		Kaintara	Ac-3.520 Khata No- 76 Plot No- 756/759				3.520	6284.6
26	Safei	Badkuchhar	Ac-10.870 Khata No- 119 Plot No- 1783				10.870	2737
27		Madhupur	Ac-16.860 Khata No- 32 Plot No- 187				16.860	780
28	Brahmaninadi 'KHA'	Tumkela	Ac-0.32 Khata No- 1 Plot No- 31/p	0.32	0.15		49169.306	52056
29		Birtola	Ac-0.36 Khata No- 1 Plot No- 27	0.36	0.32		119989.29	181516
30		Digi	Ac-0.22 Khata No- 1 Plot No- 92/p	0.22	0.22		49978.677	34906.44
31		Suarpali	Ac-0.22 Khata No- 1 Plot No- 84/p	0.22	0.22		49978.677	53652.38
32		Poigaon	Ac-0.20 Khata No- 1 Plot No- 78/p	0.2	0.2		40468.600	36635.86
33		Surguda	Khata No. 137, Plot No. 607				194775.179	12402
34		Chhatenpali	Khata No. 140, Plot No. 277/1 193				60343.307	13332
35		Lephripara	Khata No. 245, Plot No. 1680/11 & 636/2145				83608.045	10210
36	River, IB	Ghoghar Sand Bed (B)	Khata No. 171, Plot No. 457, Area Ac. 7.00	0.305	91.5		27907	
37		Kusumura	Khata No. 203, Plot No. 1281/p, Area Ac. 10.00	0.296	149		44104	
38		Bankidihi	Khata No. 48, Plot No. 270/457, Area Ac. 10.45	0.29	144.78		41986	

39	River, IB, Iccha & Tamga	Bilaigarh Sand Bed			0.25	0.07	14216	8530
40		Jamundahipa			0.19	0.07	8375	5025
41		Kurga Jharbermi Sand Bed			0.19	0.08	10458	12550
42		Lemlema Sand Bed			0.13	0.12	1553	930
43		Ratanpur Sand Bed					912	500
44		Ergapita Sand Bed			0.03	0.14	34240	41090
45		Abankela Sand Bed			0.5	0.17	48118	28870
46		Nadisuguda Sand Bed			0.32	0.11	46876	56250
47		Daldali Sand Bed			0.32	0.24	46766	28060
48		Surda Sand Bed			0.11	0.08	5443	3260
49		Telipali Sand Bed			0.84	0.01	7212	4327
50		Mangaspur Sand Bed					820	490
51		Kurla Sand Bed					940	560
52		Chungimati	Khata No.92, Plot No.568/p & 507/p, Ac.8.00					
53		Koelnagar						
54		Tarkera-I						
55	Tarkera-II							
56	Tarkera-III							
57	Tumkela							
58	Luakera							
59	Jaharitoli	Khata No.67, Plot No.459/1 & 460/1, Ac.12.50					10850	
60	Teterkela	Khata No.84, Plot No.526/527/1, Ac.16.34					60243	
61	Lankoi	Khata No.137, Plot No.712/1459/1 & 620/1458 Ac.13.90					28612	
62	Gopur	Khata No.102, Plot No.638/1 Ac.13.00					55040	

STONE/MOORUM

Sl No.	Name of the source	River or Stream	Portion of the river or stream recommended for mineral concession	Length of area recommended for mineral concession (in kilometer)	Average width of area recommended for mineral concession (in meters)	Area recommended for mineral concession (in square meter)	Mineable mineral potential (in metric tonne) (60% of total mineral potential)
1	Jalda		Khata No-120 , Plot No-48/3828/3829	Nil	Nil	48157.59	28080
2	Balanda		Khata No-504, Plot No-1897/P	Nil	Nil	42491.99	38054
3	Balanda		Khata No-504, Plot No- 1897/P	Nil	Nil	48562.3	6000
4	Balanda		Khata No-504, Plot No-1893/P	Nil	Nil	40468.6	9100
5	Balanda		Khata No- 504, Plot No-1899/P	Nil	Nil	46538.85	14040
6	Balanda		Khata No- 504, Plot No-2009/P, 2010/P	Nil	Nil	40468.6	101452
7	Balanda		Khata No-504, Plot No-1890/P	Nil	Nil	40468.6	2100
8	Balanda		Khata No-504, Plot No-2473/P	Nil	Nil	40468.6	5300
9	Balanda		Khata No-238, Plot No-2292/P	Nil	Nil	28328	60004
10	Balanda		Khata No-238, Plot No-2292/P	Nil	Nil	48764.62	50940
11	Asurchhapal		Khata No-112, Plot No-385/P	Nil	Nil	20234.3	4400
12	Garjan		Khata No-205, Plot No-109	Nil	Nil	10521.8	1640
13	Garjan		Khata No-205, Plot No-113/1	Nil	Nil	14366.34	1500
14	Thiaberna-I		Khata No.67, Plot No.750/p	0.01	0.01	2023.428	3000
15	Thiaberna-II		Khata No.66, Plot No.698/p	0.02	0.02	4046.856	12000
16	Jamirdihi		Khata No.35, Plot No.72/544	0.05	0.05	32374.848	13000
17	Daleisara		Khata No.04, Plot No.74	0.05	0.05	37959.509	10260
18	San-tikayatpali		Khata No. 06, Plot No.4/p	0.04	0.04	20234.208	62744
19	Gadruan		Khata No.123, Plot No.545	0.24	0.24	54430.21	3000

20	Kumbhardi		Khata No.50, Plot No.53		0.14	0.13	20234.28	3000
21	Sianbahal		Khata No.21, Plot No.30, Area 12.00		Nil	Nil	Nil	9000
22	Toda		Khata No.84, Plot No.647, Area 10.00		Nil	Nil	Nil	2016
23	Thelakudar		Khata No.26, Plot No.126, Area 10.00		Nil	Nil	Nil	1000
24	Rajanganpur-III		Khata No.379, Plot No.985/p, Ac.4.00		--	--	--	--
25	Rajanganpur-IV		Khata No.379, Plot No.1063/p, Ac.4.65		--	--	--	--
26	Jouramal		Khata No.165, Plot No.1133/1570/p, Ac.10.00		--	--	--	--
27	Kutunia		Khata No.443, Plot No.2214/2216, Ac.4.04		--	--	--	--
28	Dhaurada		Khata No.37/44, Plot No.1181, 1182, & 1183 Ac.6.09		--	--	--	--
29	Bhagaltola		Khata No.169, Plot No. 360/p Ac.5.00		--	--	--	--
30	Ramlata		Khata No.37, Plot No. 25/p Ac.7.00		--	--	--	--
31	Kansbahal		Khata No.132 Plot No. 1914p Ac.7.69		--	--	--	--
32	Barangakhola		Khata No.379 Plot No. 1410/2859/p Ac.5.00		--	--	--	--
33	Raikakachhar		Khata No.155 Plot No. 1131 Ac.3.20		--	--	--	--
34	Sunakhandi		Khata No.73 Plot No. 928 Ac.10.00		--	--	--	--
35	Rajanganpur-IV		Khata No.379 Plot No. 985/p Ac.4.50		--	--	--	--
36	Rajanganpur-II		Khata No.379 Plot No. 985/p Ac.4.00		--	--	--	--
37	Kumarkela-I		Khata No.413 Plot No. 3155/p Ac.7.00		--	--	--	--
38	Kumarkela-II		Khata No.413 Plot No. 3159/p Ac.7.10		--	--	--	--
39	Tangarpali Stone Quarry		Khata No.92 Plot No. 508/p & 507/p Ac.8.00		--	--	--	--
40	Jharabahal		--		--	--	--	--
41	Jharabahal-II		--		--	--	--	--
42	Tangarpali		--		--	--	--	--
43	Tangarpali		--		--	--	--	--
44	Kanaktura		--		--	--	--	--
45	San-balichuan		--		--	--	--	--

SAILENT FEATURES OF IMPROTANT RIVERS AND STREAMS

Sl No	Name of the River and Stream	Total length in the district (in Km)	Place of origin	Altitude at Origin in Meter	Portion of the river or stream recommended for Mineral Concession	Length of area recommended for mineral concession (in Km)	Average width of area recommended for mineral concession (in meters)	Area recommended for mineral concession (in square meter)	Mineable mineral potential (in metric tonne) (60% of total mineral potential)
1	2	3	4		6	7	8	9	10
1	IB	58.75	Madhyapradesh	652	Telijore	1.00	150	150000.00	144000
					Baunimunda	0.50	100	50000.00	48000
					Bhojpur	1.00	100	100000.00	96000
					Sundargarh	2.00	200	400000.00	384000
					Lemlima	1.00	200	200000.00	192000
					Chotbhaga	0.50	100	50000.00	48000
					Kudabaga	1.00	100	100000.00	96000
					Bhasma	1.50	100	150000.00	144000
							TOTAL	1200000.00	1152000
2	Madalghat Nallah Sukhajore	8.50	Sundargarh	300	Bhojpur Bagbandha	2.00	50	100000.00	96000
3	Safai	70.00	Sundargarh	320	Kaisara	1.00	70	70000.00	67200
					Kinjirma	1.00	50	50000.00	48000
					Amasranga	2.00	80	160000.00	153600
					Badkachhar			0.00	0
					Philingibahal	1.00	0	50000.00	48000
					Turiposh Jangli	1.00	30	30000.00	28800
							TOTAL	360000.00	345600
					Birbira	1.00	30	30000.00	28800
	Ustalli Nallah	20.00	Sundargarh	300			TOTAL	30000.00	28800
	Gahirjore Nallah	15.00	Sundargarh	280	Khapurikhaman	0.50	30	15000.00	14400
							TOTAL	15000.00	14400
	Sarswati Nallah	13.00	Sundargarh	280	Tangarmunda & Lemlina	0.60	30	18000	17280
					Khuntgaon	0.30	30	9000.00	8640
							TOTAL	27000.00	25920

				Jhariapali		0.50	50	25000.00	24000
				Sargipali		0.50	50	25000.00	24000
				Surda & Jhimermahul,	380				
				Telipali		1.00	50	50000.00	48000
				Dumerkud		1.00	50	50000.00	48000
							TOTAL	150000.00	144000
				Mandira & Khajurdihi		1.30	50	65000.00	62400
				Kherpash		1.00	40	40000.00	38400
				Chungimati		1.00	50	50000.00	48000
				Raiberna		1.50	50	75000.00	72000
				Bhalupatra	380	2.00	50	100000.00	96000
				Chandiposh		1.00	50	50000.00	48000
				Padampur Beldihi		1.00	50	50000.00	48000
				Kutenpash		1.50	50	75000.00	72000
				Gopapali		1.50	80	120000.00	115200
							TOTAL	625000.00	600000
				Jaraikele		2.00	25	50000.00	48000
				Nuatole		2.00	25	50000.00	48000
				Mashrikudes		0.50	40	20000.00	19200
				Teterkela		1.50	50	75000.00	72000
				Bangurkela		2.00	50	100000.00	96000
				Jobaghat		1.00	50	50000.00	48000
				Jhirpani		1.00	50	50000.00	48000
				Namirpas	520	3.00	50	150000.00	144000
				Pasra		2.00	50	100000.00	96000
				Bijubandha		2.00	50	100000.00	96000
				Tumkela		1.00	50	50000.00	48000
				Luakera		2.00	50	100000.00	96000
				Padhanpali		1.50	50	75000.00	72000
				Panposh		1.50	50	75000.00	72000
							TOTAL	1045000.00	1003200
				Bilaigarh	300	2.00	30	60000.00	57600
							TOTAL	60000.00	57600
				Simirla	240	1.00	15	15000.00	14400
				Kimang		3.00	20	60000.00	57600

					Balimunda	1.00	20	20000.00	19200
					Kadapani	1.00	10	10000.00	9600
							TOTAL	105000.00	100800
					Panposh	1.00	50	50000.00	48000
					Dandibali	1.00	50	50000.00	48000
					Balughat	1.00	50	50000.00	48000
					Gargan	1.00	50	50000.00	48000
					Jalda	2.00	50	100000.00	96000
					Kansar	2.00	500	1000000.00	960000
					Depatoli	2.00	50	100000.00	96000
					Nuagaon	2.00	80	160000.00	153600
					Jodabandh	3.00	80	240000.00	230400
					Baglata	1.00	30	45000.00	43200
					Chandrapur	2.00	30	60000.00	57600
					Birtola	1.00	20	20000.00	19200
					Darjing	2.00	50	100000.00	96000
					Sialkudar	1.00	20	30000.00	28800
					Kapundo	3.00	30	90000.00	86400
					Gadapali	1.00	50	75000.00	72000
					Narendra	3.00	50	150000.00	144000
					Kendikela	1.50	30	45000.00	43200
					Tumkela	3.00	25	75000.00	72000
					Bonai	5.00	30	150000.00	144000
					Taldhipa	4.00	25	100000.00	96000
					Barposh	2.00	30	60000.00	57600
					Jogua	5.00	50	250000.00	240000
					Boneikela	2.00	30	60000.00	57600
					Badgaon	2.00	20	40000.00	38400
							TOTAL	3150000.00	3024000
					Siudhi	1.50	15	22500.00	21600
							TOTAL	22500.00	21600
					Barghat	3.50	10	35000.00	33600
					Thilakudar	3.00	10	30000.00	28800
					Kalasahi	2.00	10	20000.00	19200
							TOTAL	85000.00	81600

	Amruti Nallah	14.00	Odisha	240	Kariadihi Tikayetpali	2.00 1.00	20 20	40000.00 20000.00	38400 19200
	Saplata Nallah	9.5	Odisha	300	Dumermunda	1.50	TOTAL 20	60000.00 30000.00	57600 28800
	Rukura Nallah	8.00	Odisha	260	Sishudihi Bijadihi & Dalkiposh	1.00 1.50	TOTAL 20 20	30000.00 20000.00 30000.00	28800 19200 28800
							TOTAL	50000.00	48000
							G.TOTAL:-	7114500.00	6829920

COLLECTOR
SUNDARGARH

Mineral Potential

Name of the Source	Boulder (MT)	Bajari (MT)	Sand (MT)	Total Mineable Mineral Potential (MT)
Kolasahi Sand Bed	--	--	16266.67	16266.67
Deogaon Sand Bed	--	--	4965	4965
Baliatota Sand Bed	--	--	42898.34	42898.34
Sabara Sand Bed	--	--	38783.34	38783.34
Sangagua Sand Bed	--	--	22413.34	22413.34
Chandrapur Stone Quarry	4820	--	--	4820
Subalaya Sand Bed	--	--	12252	--
Jaisar Sand Bed	--	--	28920	--
Gailo Sand Bed	--	--	28920	--
Bhojpur Sand Bed	--	--	145639	--
Kanika Sand Bed	--	--	14640	150449
Malidihi Sand Bed	--	--	20485	194342
Peruabhadri Stone Quarry-A	117974	--	--	589881
Peruabhadri Stone Quarry-B	34592	--	--	248182
Damkuda Stone Quarry- A	14983	--	--	245921
Rasrajpur Moorum Quarry	--	--	48929	273439
Tarkera Sand Bed	--	--	11550	38500
Dahijira Moorum Quarry	--	--	14511	159636
Tumkela Sand Bed	--	--	86760.00	86760.00
Birtola Sand Bed	--	--	302527.30	302527.30
Digi Sand Bed	--	--	58177.40	58177.40
Suarpali Sand Bed	--	--	89420.64	89420.64
Piogaon Sand Bed	--	--	61059.76	61059.76
Thiaberna Stone Quarry-I	7230.00	--	--	--

Thiaberna Stone Quarry-II	28920.00	--	--	--	--
Jamirdihi Stone Quarry	31330.00	--	--	--	--
Daleisara Stone Quarry	24726.60	--	--	--	--
San-Tikayatpali Stone Quarry	151213.04	--	--	--	--
Gadruan Moorum Quarry	--	--	--	--	--
Kumbhardihi Moorum Quarry	--	--	--	--	--
Bilaigarh Sand Bed	--	--	--	--	18399
Jamundahipa	--	--	--	--	11563
Kurga Jharberni Sand Bed	--	--	--	--	28628
Lemlema Sand Bed	--	--	--	--	3679
Ratanpur Sand Bed	--	--	--	--	3459
Ergapita Sand Bed	--	--	--	--	79792
Abankela Sand Bed	--	--	--	--	58993
Nadisuguda Sand Bed	--	--	--	--	109266
Daldali Sand Bed	--	--	--	--	53833
Rajganpur-III	36051.19	--	--	--	43934.15
Rajgangpur-IV	36439.2	--	--	--	40488
Jouramal	60664.52	--	--	--	75830.65
Kutunia	48802.5	--	--	--	54225
Dhaurada	30366	--	--	--	33740
Bhagaltola	77973.38	--	--	--	86637.09
Ramlata	71577	--	--	--	79530
Kansbahal	331796.26	--	--	--	368662.52
Barangakhhol	79060.05	--	--	--	912459.5
Raikakachhar	--	--	--	--	53984
Sunakhandi	--	--	--	--	10845
Rajgangpur-I	--	--	--	--	14460
Rajgangpur-II	--	--	--	--	14460
Kumarkela-I	--	--	--	--	14460

SI No.	River of Stream	Portion of the river or stream recommended for mineral concession	Length of area recommended for mineral concession (in kilometer)	Average width of area recommended for mineral concession (in meters)	Area recommended for mineral concession (in square meter)	Mineable mineral potential (in metric tonne) (60% of total mineral potential)
1	2	3	4	5	6	7
1	IB	58.75	Madhyapradesh	150	150000.00	144000
				100	50000.00	48000
				100	100000.00	96000
				200	400000.00	384000
				200	200000.00	192000
				100	50000.00	48000
				100	100000.00	96000
				100	150000.00	144000
				TOTAL	1200000.00	1152000
2	Madaighat Nallah Sukhajore	8.50	Sundargarh	50	100000.00	96000
				TOTAL	100000.00	96000
				70	70000.00	67200
				50	50000.00	48000
				80	160000.00	153600
					0.00	0
				0	50000.00	48000
				30	30000.00	28800
				TOTAL	360000.00	345600
4	Ustalli Nallah	20.00	Sundargarh	30	30000.00	28800
				TOTAL	30000.00	28800
5	Gahirjore Nallah	15.00	Sundargarh	30	15000.00	14400
				TOTAL	15000.00	14400
6	Sarswati Nallah	13.00	Sundargarh	30	18000	17280
				30	9000.00	8640
				TOTAL	27000.00	25920

7	Ichha	44.00	Sundargarh	50	25000.00	24000
				50	25000.00	24000
				50	50000.00	48000
				50	50000.00	48000
				TOTAL	150000.00	144000
8	Sankh	17.00	Odisha (Down stream of Mandira Dam)	50	65000.00	62400
				40	40000.00	38400
				50	50000.00	48000
				50	75000.00	72000
				50	100000.00	96000
				50	50000.00	48000
				50	50000.00	48000
				50	75000.00	72000
				80	120000.00	115200
				TOTAL	625000.00	600000
9	Koel	40.00	Jharkhand	25	50000.00	48000
				25	50000.00	48000
				40	20000.00	19200
				50	75000.00	72000
				50	100000.00	96000
				50	50000.00	48000
				50	50000.00	48000
				50	150000.00	144000
				50	100000.00	96000
				50	100000.00	96000
				50	50000.00	48000
				50	100000.00	96000
				50	75000.00	72000
				50	75000.00	72000
				TOTAL	1045000.00	1003200
10	Badjore Nallah (Sankh)	14.00	Odisha	30	60000.00	57600
				TOTAL	60000.00	57600

11	Deo Nallah	44.00	Jharkhand	15	15000.00	14400
				20	60000.00	57600
				20	20000.00	19200
				10	10000.00	9600
				TOTAL	105000.00	100800
				50	50000.00	48000
				50	50000.00	48000
				50	50000.00	48000
				50	50000.00	48000
				50	100000.00	96000
				500	1000000.00	960000
				50	100000.00	96000
				80	160000.00	153600
				80	240000.00	230400
				30	45000.00	43200
				30	60000.00	57600
				20	20000.00	19200
				50	100000.00	96000
				20	30000.00	28800
				30	90000.00	86400
				50	75000.00	72000
				50	150000.00	144000
				30	45000.00	43200
				25	75000.00	72000
				30	150000.00	144000
				25	100000.00	96000
				30	60000.00	57600
				50	250000.00	240000
				30	60000.00	57600
				20	40000.00	38400
				TOTAL	3150000.00	3024000
13	Siudhi Nallah	6.5	Odisha	15	22500.00	21600

14	Kuradi Nallah	16.00	Odisha	TOTAL	22500.00	21600
				10	35000.00	33600
				10	30000.00	28800
				10	20000.00	19200
15	Amruti Nallah	14.00	Odisha	TOTAL	85000.00	81600
				20	40000.00	38400
				20	20000.00	19200
16	Saplata Nallah	9.5	Odisha	TOTAL	60000.00	57600
				20	30000.00	28800
17	Rukura Nallah	8.00	Odisha	TOTAL	30000.00	28800
				20	20000.00	19200
				20	30000.00	28800
				TOTAL	50000.00	48000
G.TOTAL:-					7114500.00	6829920

COLLECTOR
SUNDARHARH