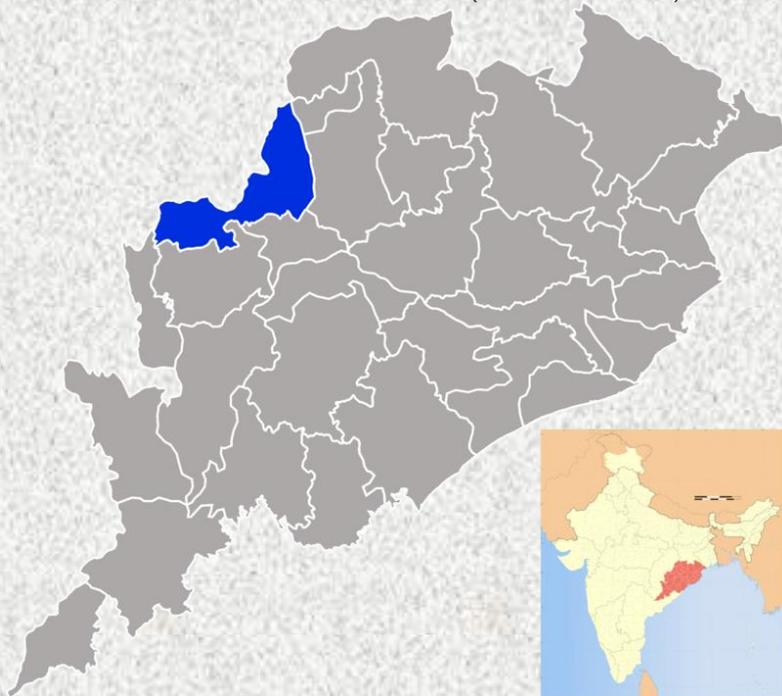


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DISTRICT SURVEY REPORT (DSR) OF BARGARH DISTRICT, ODISHA ON SAND MINING / RIVER BED MINING

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
NOVEMBER-2019**

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In addition to the above points, the report contains the following:

- (a) District wise details of river or stream and other sand source; **Annexure-I**
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Additional District Magistrate
BARGARH


COLLECTOR
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

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), Malkangiri** 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 Malkangiri 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.

01. INTRUCTION.

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

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, Jagadapur, 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-II).***

04. DETAILS OF ROYALTY OR REVENUE RECEIVED IN LAST THREE YEARS. (for Sand)

Details of Royalty Received in Last Three Years					
Revenue Collected for Sand Sources					
Sl. No	Name of the Tahasil	Name of the Source	Revenue Collected in Last Three Years (In Rs.)		
			2016-17	2017-18	2018-19
1	Attabira	Jhankabahal Sand Sand	0	237000	200000
2	Attabira	Jhilminda Sand bed	62000	30000	51000
3	Attabira	Bhoipali and Attabira Sand bed	233000	0	0
4	Barpali	Baramkela	0	50000	20000
5	Bheden	Jandol	54300	35000	86837
6	Bheden	Dhubenpali	87144	160000	108699
7	Bheden	Deshbhatli	148174	118657	220000
8	Bheden	Sankrida B	124093	95000	80000
9	Bheden	Sankrida C	107860	65000	75983
10	Bheden	Achhandpali B	113115	20000	0
11	Bheden	Kutpali	0	0	303820
12	Bheden	Apamara	0	0	199985
13	Bhatli	Kamgaon	0	0	14265
14	Padampur	Kumunibahali-A	0	225585	230040
15	Padampur	Kumunibahal-B	0	245769	246961
16	Padampur	Ghanamal,	40000	40000	40000
17	Padampur	Deoli,	0	0	0
18	Padampur	Lakhamara	0	22600	0
19	Padampur	Kumudi Nalah, Firupali ,	34600	0	0
20	Padampur	Kumudi Nalah, Singhanpur ,	20000	20000	20000
21	Bijepur	Ranj River, Jaring	192282	192282	118438
22	Bijepur	Utali River, Talpadar	0	27715	110860
23	Paikmal	Chuhapali-I	30323	60646	90969
24	Paikmal	Chuhapali-II	32342	16171	0
25	Paikmal	Khaira	21000	63000	0

26	Paikmal	Mandiadhipa Sand	44213	88426	88426
27	Paikmal	Jamseth	44278	22139	0
28	Paikmal	Bartunda	54224	27112	0
29	Paikmal	Munikel Sand	88706	88706	88706
30	Paikmal	Nilathar Sand	84788	84788	0
31	Paikmal	Brahmandihi Sand	90950	90950	90950
32	Paikmal	Kutramal Sand	66452	66452	0
33	Jharbandh	Jagdulpur Sand Quarry	46154	0	160000
34	Jharbandh	Lergaon Sand Quarry	50375	0	0
35	Jharbandh	Balangir Sand Quarry,	66546	60000	0
36	Jharbandh	Turla Sand Quarry	0	0	42785
37	Jharbandh	Badanki Sand Quarry	0	0	123595
TOTAL			1936919	2252998	2798054

05. DETAIL OF PRODUCTION OF SAND.

Details of Production of Minor Mineral in Last Three Years					
Production of Sand Source					
SI No	Name of the Tahasil	Name of the Source	Production of sand in Last Three Years (In Cum)		
			2016-17	2017-18	2018-19
1	Attabira	Jhankabahal Sand Sand	5031.29	5031.25	5031.25
2	Attabira	Jhilminda Sand bed	1203.5	1200	1210
3	Attabira	Bhoipali and Attabira Sand bed	2600	2600	2600
4	Attabira	Chakuli and Bhoipura Sand bed	2239.80	2239.80 2280.00	2280.00 2310.00
5	Bheden	Jandol Sand	300	300	300
6	Bheden	Dhubenpali Sand	1100	1100	1100
7	Bheden	Deshbhatli Sand	2000	2000	2000
8	Bheden	Sankrida B Sand	2000	2000	2000
9	Bheden	Sankrida C Sand	2000	2000	2000
10	Bheden	Achhandpali B Sand	1500	1500	1500
11	Bheden	Kutpali	900	900	900
12	Bheden	Apamara Sand	1500	1500	1500
13	Padampur	Kumunibahali-A	0	2785	2840
14	Padampur	Kumunibahal-B	0	2840	2902
15	Padampur	Ghanamal,	1000	1000	1000
16	Padampur	Deoli,	500	500	500
17	Padampur	Lakhamara	0	400	400
18	Padampur	Kumudi Nalah, Firupali ,	400	400	400
19	Padampur	Kumudi Nalah, Singhanpur ,	500	500	500
20	Bijepur	Ranj River, Jaring	2000	2000	2000
21	Bijepur	Utali River, Talpadar	700	720	740
22	Paikmal	Chuhapali-I Sand	110	110	110
23	Paikmal	Chuhapali-II Sand	194	194	194
24	Paikmal	Khaira Sand	86	86	86
25	Paikmal	Mandiadhipa Sand	209	209	209
26	Paikmal	Jamseth	102	102	102

27	Paikmal	Bartunda	172	172	172
28	Paikmal	Munikel Sand	210	210	210
29	Paikmal	Nilathar Sand	387	387	387
30	Paikmal	Brahmandihi Sand	218	218	218
31	Paikmal	Kutramal Sand	258	258	258
32	Jharbandh	Jagdarpur Sand Quarry	1300	1400	1500
33	Jharbandh	Lergaon Sand Quarry	2550	2600	2650
34	Jharbandh	Balangir Sand Quarry,	1950	2000	2500
35	Jharbandh	Turla Sand Quarry	0	0	3980
36	Jharbandh	Badanki Sand Quarry	0	0	8010
TOTAL			35220.59	39222.25	52009.25

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.

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-

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.

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		Bhatli Range		Ghess Range		Padampur Range		Nrisinghanath 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

Agriculture:

LAND UTILISATION PATTERN IN THE DISTRICT: AGRICULTURE

General land information of Bargarh District as follows:

Sl. No.				High	Medium	Low	
1	Geographical area		Ha.				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	Kharif-2018	Ha.	173731	97685	77331	348747
9	Gross Crop area	2018-19	Ha.				478984
10	Cropping intensity	2018-19	Ha.				737
11	Irrigated area	Kharif-2018	Ha.				184053
12		Rabi-2018-19	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	AAO Circle						24
18	AO/VAW circle						233

Horticulture:

Physical and Financial Progress made under MIDH(NHM)/NMMI/STATE PLAN/NMOOP/MGNREGA/RKVY FOR THE YEAR 2017-18

NAME OF THE DISTRICT : BARGARH

Sl. No.	Item	Unit	BARGARH				PADAMPUR				TOTAL DISTRICT			
			Physical		Financial		Physical		Financial		Physical		Financial	
			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	4.56
b	Papaya - Without Integration	ha	3		0.68		3	3	0.68	0.680	6	3.00	1.36	0.68
c	High Density -Mango-Without Integration	ha	2	2	0.2	0.200	1	1	0.1	0.1	3	3.00	0.3	0.30
d	Mango (10m.x10m) normal spacing	ha	43	43	3.29	3.29	79	79	6.04	6.04	122	122.00	9.33	9.33
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	12.680
3	Flowers (For a maximum of 2 ha per beneficiary)													
	Loose flowers										0	0.00	0	0.000
a	S&M Category	ha	5	0.1	0.80	0.016	5		0.80		10	0.10	1.6	0.016
b	Other Category	ha	5	1.2	0.50	0.12	5		0.50		10	1.20	1	0.120
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	200	200	2	2.000
b	Outside the State @ 5000/farmer	Nos.	20	20	1	1.000	18	18	0.9	0.900	38		1.9	1.900
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	1.000
b	Outside India @ Rs.4.0 lakh / participant	Nos.												

6	Training, study tour of technical staff/field functionaries with TA, DA as admissible													
a	Within the State @Rs.300+Rs.400+500/day/staff		6		0.07		6		0.07		12		0.14	0.000
b	Study tour to progressive states / units (group of minimum 5 participants)	Group					2		1	0.7	2		1	0.700
7	INTEGRATED POST HARVEST MANAGEMENT										0			
a	Functional Pack House/On farm collection & Storage unit (9M x 6m)	Nos.	5	6	10	12	5	5	10	10	10		20	22.000
b	District Level @Q 2 days event	Nos.	1	1	2	2.00					1	1	2	2
c	Promotion of 25 Producers Organisations	Nos.	1		2		1		2		2		4	
2	STATE PLAN SCHEMES													
a	Sale of Planting Material	nos.	11620	11620	1.23430	1.23430	6218	6218	1.23430	1.23430	17838	17838	2.4686	2.46860
b	Single Line Trellis	nos	70	70	2.10	2.10	60	60	1.80	1.80000	130	130	3.9	3.90000
c	Onion Seed	Qtl	5	5	0.8050	0.8050	6	6	0.96000	0.96000	11	11	1.76500	1.76500
3	RKVY													
a	Potato	ha	30	5.28	0.79992	0.79992	10	6	0.90900	0.90900	40	11.28	1.70892	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	0.80	9.44	
b	Portable Sprinkler	ha.												
	Field Crop	ha.	390		25.195						390		25.195	
	Horticultural Crop	ha.	300	38.80	18.17						300	38.80	18.17	
5	NMOOP													
a	Oil Palm	ha.	400	202.49	48	17.22987	200	271.03	24	23.06194	600	473.52	72	
6	MGNREGA													
a	Mango	ha.					33	28	37.29		33	28	37.29	
b	Mango (Conv.)	ha.					60	60.5	123.1595		60	60.5	123.1595	
c	Oil Palm (Conv.)	ha.	34.5	30	26.2918		50	45.5	38.104		84.5	75.5	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	Achievement	Achievement	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
B	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
C	Plastic Mulching Max-2 ha/Benif (sqm)	30	27	4.32	20		0	50.00	27.00	4.3200	54
D	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	

	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 sructure	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
L	Other Activities (Vermibed Bed, Vermicompost, Zero energy cool chamber)									0.0000	
	MIDH(NHM) Total			51.1541			85.92139			137.0755	
M	NMOOP									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
	Dev't of Potato & Veg.									0.0000	
i	Subsidised sale of Onion Seeds(in Qtl)	5	3.76	2.256	2.5	2.5	1.5	7.50	6.26	3.7560	83
P	Micro Irrigation									0.0000	

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

SCHEME WISE PHYSICAL AND FINANCIAL TARGET AND ACHIEVEMENT OF HORTICULTURAL ACTIVITIES OF BARGARH DISTRICT 2019-20 (TILL DATE)														
SI.No	Item	Unit	BARGARH				PADAMPUR				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	under progress	10	3.07	under progress	under progress	30	9.2178	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	

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)												
	i) Hybrid @Rs.50000/ha (40% of the cost in general)	ha	100	20.000	under progress	75	15.00	under progress	175	35	under progress		
3	Flowers (For a maximum of 2 ha per beneficiary)									0	0		
	Loose flowers									0	0		
I	S&M Category	ha	5	0.800	under progress	2	0.32	under progress	7	1.12	under progress		
II	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		
	Permanant 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		

E	Special Interventions									0	0		
	Supply of Plastic Crates to Vegetable/ Fruit Growers	Ha	300	0.480	under progress	200	0.32	under progress	500	0.8	under progress		
F	Mission Management									0	0		
a	District Level @Q 2 days event	Nos.	1	2.000	under progress			under progress	1	2	under progress		
b	Exhibition & work shop for each MP both Lok Sabha & Rajya Sabha	Nos.	1	2.000	under progress			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.

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.

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	2013	2014	2015	2016	2017	2018	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		

11. GEOLOGY AND MINERAL WEALTH.

Geology:

Major portion of the district's landmass is underlain by Archaeans. The remaining area is comprised 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.

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 dolomite & lime stone deposit found within the district, a few decorative stone & quartzite deposits also reported within the district.

Reserve / Resource potential Evaluation;

Reserve given as per the evaluation done by concern Geology department in the following table;

Name of Tahasil	Sl.No.	Name of the quarry	Area in Acre	Long.	Lat.	Resource in Cum	Remarks
BARGARH	1	Dang Girisul Sand Bed-D	13	83°35'57.9"	21°22'56.2"	13150	Potential
	2	Dang Girisul Sand Bed-D	17	83°35'54"	21°20'59"	10305	Potential
	3	Dang Girisul Nala Sand Bed-D	12.84	83°35'25"	21°21'05"	7785	Potential
	4	Zeera River Sand Bed -A	12.5	83°36'11"	21°20'23.9"	7575	Potential
	5	Bargarh Zeera Sand Bed-B	12.5	83°36'5.2"	21°20'11.2"	7575	Potential
	6	Ambapali Zeera River Sand Bed -C	12.5	83°36'22.3"	21°19'27.7"	7575	Potential
	7	Ambapali Zeera River Sand Bed -E	13	83°36'13.40"	21°19'51.5"	13150	Potential
	8	Ambapali Zeera River Sand Bed -D	12.5	83°36'28.7"	21°19'02.9"	7575	Potential
	9	Bargarh Zeera River Sand Bed-C	12.5	83°36'28.7"	21°19'02.9"	7575	Potential
	10	Barhaguda- Danta River sand bed-A	14.84	83°41'21"	21°21'24"	18015	Potential
	11	Bardol sand bed	5.07	83°15'5.8"	21°06'0.2"	12675	Potential
	12	Sayan Jeera River sand bed	13	83°34'20.45"	21°21'21.10"	15780	Potential
	13	Barhaguda- Danta River sand bed-B	14.88	83°41'37"	21°20'50"	15050	Potential
	14	Barhaguda- Danta River sand bed-C	14.88	83°41'20.80"	21°21'23.70"	15025	Potential
	15	Jamura Danta River sand bed-A	13	83°39'12"	21°22'55.12"	13150	Potential
	16	Jamura sand bed-B	13	83°39'41.55"	21°22'37"	13150	Potential
	17	Bargarh Dang Girisul Nala Sand bed-B	12.5	83°35'21"	21°21'22"	12625	Potential
	18	Bausenpali sand bed -C	12.56	83°44'07.7"	21°16'03.3"	12700	Potential
	19	Talsrigida sand bed	16.8	83°42'18"	21°19'17"	16975	Potential

	20	Talsrigida River sand bed	16.8	83°42'19"	21°19'18.10"	16975	Potential
	21	Bausenpali sand bed -B	12.5	83°44'05.4"	21°16'08.2"	12625	Potential
	22	Karuan sand bed	12.5	83°43'16.4"	21°18'09.2"	15150	Potential
	23	Dhanger Zeera River sand bed -A	12.6	83°38'08"	21°17'26.25"	15270	Potential
	24	Rungunia Zeera River sand bed	15	83°37'30"	21°17'25.22"	18210	Potential
	25	Ambapali-Sorsora-Banjari Nala S.B	12.8	83°35'43"	21°19'12"	15540	Potential
ATTABIRA	26	Jhilimunda sand bed	8.21	83°49'47.5"	21°18'04"	20525	Potential
	27	Sorna sand bed	8.73	83°49'47.5"	21°18'03.8"	21825	Potential
	28	Jhankabahal	31.6	83°49'40.7"	21°18'50.0"	31950	Potential
	29	Larambha khandagali SB	33.17	83°49'22.2"	21°19'29.9"	16775	Potential
	30	Bhoipali-Larasara & Attbira Jhajjor SB	31.84	83°48'21.7"	21°23'08.7"	16100	Potential
	31	Chakuli-Bhoipali sand bed	21.78	83°48'44.8"	21°22'04.5"	17247	potential
BIJEPUR	32	Talpadar sand bed	12.8	83°22'36"	21°10'13.7"	7755	potential
	33	Jaring sand bed	23.02	83°30'22.5"	21°11'52.3"	32585	potential
	34	Luamunda - Cherengamunda sand bed	14.04	83°24'00.8"	21°05'2.4"	14200	potential
GAISILAT	35	Jamutpali sand bed	12.4	83°15'26"	21°00'37"	17535	potential
	36	Bheluapadar sand bed	12.4	83°19'41.80"	20°59'24.80"	20040	potential
BHEDEN	37	Dhubenpali B Sand quarry	12	83°43'37.4"	21°11'0.9"		potential
	38	Sankrida B Sand quarry	12	83°50'59.1"	21°15'41.4"		potential
	39	Sankrida C Sand quarry	11.41	83°51'0.3"	21°15'11.9"		potential
	40	Jandol Sand quarry	12	83°43'18.0"	21°11'42.7"		potential
	41	Apamara Sand quarry	12.5	83°45'15.1"	21°12'26.5"		potential
	42	Deshbhatli Sand Bed	12.5				potential
PADAMPUR	43	Firupali Sand quarry	17.35	83°03'46.4"	21°01'51.2"		potential
	44	Singhanpur Sand quarry	15.4	83°02'16.48"	20°58'16.51"		potential

	45	Lakhamara Sand quarry	20.6	83°01'39.67"	21°05'27.79"		potential
PAIKMAL	46	Khaira Sand quarry	12.35	82°59'03"	21°58'55.0"		Potential
	47	Chuhapali Sand quarry 1	12.35				Potential
	48	Chuhapali Sand quarry 2	0.5	82°49'07"	20°59'59"		Not feasible
	49	Mandiadhipa Sand quarry	12.3				Potential
JHARBANDH	50	Jagdapur Sand quarry	14.54	82°56'24"	21°07'38"		Potential
	51	Mahulpali Sand quarry	14.69	82°56'24"	21°07'38"		Potential
BARPALI	52	Grindola Sand quarry	12.5	83°44'04"	21°11'49"		Potential
BHATLI	53	Kamgaon Sand quarry	14.02	83°37'1.92"	21°25'48.71"		Potential
	54	Deultundi Sand quarry	13.1	83°32'47"	21°25'16"		Potential
	55	Kuisira Sand quarry	13.5	83°30'43"	21°27'05"		Potential
	56	Haldipali Sand quarry	13.02	83°32'49"	21°25'06"		Potential
AMBABHANA	56	Khumbo stone quarry	11.96	83°21'11.3"	21°30'13"	765440	Potential
	56	Ichhapur stone quarry B	3.17	83°25'40"	21°32'32.7"	202880	Potential
	56	Sambalpur stone quarry C	7			392000	Potential
	56	Kutharpali Stone Quarry	7			392000	Potential
	56	Kalmi Stone Quarry	4.8	83°01'25.9"	20°58'17.1"	268800	Potential
Total						2558837	

Annexure-I

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

SI 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

Sl. No.	Name of Minor Mineral	Name of village/Date of registration of lease	Period of QL		Date of commencement of mining operation	Status (working/nonworking /Temp working for depatch	Captive or Non captive
			From	To			
			A	B			
1	Sand	Jandol 31.05.19	16-17	20-21	31.05.16	Working	Captive
2	Sand	Dhubenpall (B) 31.05.16	16-17	20-21	31.05.16	Working	Captive
3	Sand	Desbhatil 07.06.16	16-17	20-21	07.06.16	Working	Captive
4	Sand	Sankrida(B) 19.04.19	16-17	20-21	19.04.16	Working	Captive
5	Sand	Sankrida (C) 19.04.16	16-17	20-21-21	19.04.16	Working	Captive
6	Sand	Achhandapall(B) 16.12.16	16-17	20-21	16.12.16	Working	Captive
7	Sand	Kutpall 18.09.18	18-19	22-23	18.09.18	Non Working	Captive
8	Sand	Gondturum				Non Working	Captive
9	Sand	Sankrida(A)				Non Working	Captive
10	Sand	Bheden				Non Working	Captive
11	Sand	Luhakhandi (A)				Non Working	Captive
12	Sand	Achhandapali(A)				Non Working	Captive
13	Sand	Barpadar				Non Working	Captive
14	Sand	Dhubenpall(A)				Non Working	Captive
15	Sand	Bargaon				Non Working	Captive
16	Sand	Apamara	18-19	22-23	18.09.18	Working	Captive
Total for the District							

Additional District Magistrate
BARGARH

FOR EXECUTED SOURCES TO BE REACTIONS & NEW SOURCES							
Sl. No.	Name of village	Name of Minor Mineral and area of Sairat (Ha)	Mineable mineral potential (in cum)	MGQ (cum)	Aerial distance in km from different water related structures		
					Bridge	Culvert	Dam/E mbank ment
A	B	C	G	H	I	J	K
SOURCE TO BE REACTIONS AFTER COMPLETION OF PRESENT LEASE PERIOD							
5	Jandol	Jandol Sand 4.85 HA		1500 cum	500 mtr		
6	Dhubenpali	Dhubenpali (B) Sand 4.85 HA		5500 cum	500 mtr		
7	Deshbhatli	Deshbhatli Sand 4.85 HA		10000 cum	500 mtr		
8	Sankrida	Sankrida (B) Sand 4.85 HA		10000 cum	500 mtr		
9	Sankrida	Sankrida (C) Sand 4.85 HA		10000 cum	500 mtr		
10	Achhandapali	Achhandapali Sand (B) 4.85 HA		7500 cum	1.5 km.		
11	Kutpali	Kutpali Sand 4.77 HA		5000 cum	500 mtr		
12	Gondturm	Gondturm Sand 5.06HA		5000 cum	500 mtr		
13	Sankrida	Sankrida (A) Sand 4.85 HA			500 mtr		
14	Bheden	Bheden Sand 14.93 HA		15000cum	500 mtr		
15	Luhakhandi	Luhakhandi (A) Sand 4.85 HA			5 km.		
16	Achhandapali	Achhandapali (A) Sand 4.85 HA			0.5 km.		


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17	Barpadar	Barpadar Sand 1.19 HA		7500 cum	3.0 km.		
18	Dhubenpali	Dhubenpali (A) Sand 8.85 HA			500 mtr		
19	Bargaon	Bargaon Sand 4.85 HA					
20	Apamara	Apamara Sand 4.85 HA		7500 cum	500 mtr		

SOURCES TO BE INDUCTED AS NEW SOURCE

1	Bhutload	Bhutload Sand 2.10HA					
2	Salana	Salana Sand					
3	Kamgaon	Kamgaon Sand					
4	Bheden	Bheden Sand					
5	Udepur	Udepur Sand					
6	Talmenda	Talmenda Sand			0.5 km.		

SAND SAIRATS ALREADY LEASED OUT AND EXECUTED

Sl.No.	River or stream and Name of Village & date of Registration of lease deed	Portion of the River or Stream leased for mineral concession (GPS co-ordinates or Khata & Plot No) Sketch map to attached)	Mineable mineral potential as per approved mining plan (in cum)	Production proposed in the mining plan (cum)							
				2015-16	2016-17	2017-18	2018-19				
A	B	C	G	H	I	J	K				
1	Dhubenpali(B) Zeera River	Khata No.166 Plot No.494(p)	5500cum		1100cum	1100cum	1100cum				


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	07.06.16	Ac.12.00					
2	Sankrda (B) Jhain Joor 19.04.16	Khata No.468 Plot No.1334(p) Ac.12.00	10000cum		2000cum	2000cum	2000cum
3	Sankrda(C) Jhain Joor 19.04.16	Khata No.468 Plot No.1334(p) Ac.12.00	10000cum		2000cum	2000cum	2000cum
4	Jandol Zeera River 31.05.16	Khata No.577 Plot No.752(p) Ac.12.00	1500cum		300cum	300cum	300cum
5	Apamara Danta River 18.09.18	Khata No.321 Plot No.819(p) Ac.12.50	7500 cum		1500cum	1500cum	1500cum
6	Deshbhatti Jhain Joor 07.06.16	Khata No.270 Plot No.964(p) Ac.12.00	10000cum		2000cum	2000cum	2000cum
7	Achhandpali(B) Zeera River 16.12.16	Khata No.212 Plot No.361 Ac.12.00	7500cum		1500cum	1500cum	1500cum
8	Kutpali Danta River 18.09.18	Khata No.254 Plot No.770 Ac.11.80	5000cum		900cum	900cum	900cum

SAND SAIRATS PROPOSED TO BE LEAED OUT IN NEXT 5 YEARS							
Sl.No.	River or stream	Portion of the River or Stream recommended deed for mineral concession (GPS co-ordinates or Khata & Plot No) Sketch map to	Name of village	Length of area recommended for mineral concession (In km)	Average width of area recommended for mineral concession (In km)	Area recommended for mineral concession (In sqm)	Maximum Mineable sand (In cum) (60% of total potential)
A	B	C	D	E	F	G	H
1	Zeera River	Khata No.166 Plot No.494(p) Ac.12.00	Dhubenpali				
2	Zeera River	Khata No.166	Dhubenpali				


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		Plot No.494(p) Ac.12.00				
3	Jhain Joor	Khata No.466 Plot No.1334 Ac.12.00	Sankrida			
4	Jhain Joor	Khata No.466 Plot No.1334 Ac.12.00	Sankrida			
5	Jhain Joor	Khata No.466 Plot No.1334(p) Ac.12.00	Sankrida			
6	Zeera River	Khata No.577 Plot No.752 Ac.12.00	Jandol			
7	Danta River	Khata No.321 Plot No.819 Ac.12.50	Apamara			
8	Zeera River	Khata No.202 Plot No.758 Ac.12.50	Gondturum			
9	Jhain Joor	Khata No.276 Plot No.964 Ac.12.00	Deshbhatli			
10	Zeera River	Khata No.212 Plot No.1 Ac.12.50	Achhandapli			
11	Zeera River	Khata No.212 Plot No.361 Ac.12.00	Achhandapli			
12	Zeera River	Khata No.387 Plot No.1526 Ac.32.60	Barpadar			
13	Zeera River	Khata No.337 Plot No.1029 Ac.36.88	Bheden			
14	Danta River	Khata No.254 Plot No.770 Ac.11.80	Kutpali			


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15	Zeera River	Khata No.238 Plot No.727 Ac.23.20	Bargaron				
16	Zeera River	Khata No.131 Plot No.165 Ac.32.40	Luhakhandl				
Total for the district							


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Sl. No	River or stream and Name of village & date of Registration of lease deed	Sand Sairats already Leased out and Executed										
		Partion of the river or stream leased for	Length of area leased for mineral	Average width of area leased for	Area leased for mineral concessio	Mineable mineral potential as per	Production proposed in the mining plan (cum)					
							15-16	16-17	17-18	18-19		
A	B	C	D	E	F	G	H	I	J	K	L	
1	DANTA NADI KAMGAON SAND BED	KH NO.822,344 PLOT-3701 & PLOT1400	940M	150M	56736.927 SQMT	16865 CUM	1182.5	1500	1750	2000		

SAND SAIRAT PROPOSED TO BE LEASED OUT IN NEXT FIVE YEARS							
SL NO	RIVER OR STREAM	PORTION OF THE	NAME OF VILLAGE	LENGTH OF AREA	AVERAGE WIDTH OF	AREA RECOMME	MAXIMUM MINEABLE
A	B	C	D	E	F	G	H
1	PAWASUR JOR SAND BED	KH-138 PLOT NO 53.63/966.53/1064, 951	HANDASANKRI	104M	55M	54834.9055QMT	13995 CUM
2	KHARLA JOR, DANTA RIVER, JORI NADI SAND BED	KH-270, PLOT 1512, 1516, 1936	MULBAR	740M	120M	50261.9575QMT	48625.1125QMT
3	KULIARI JOR SAND BED	KH-166 PLOT-159,811	NIJUI	1780M	140M	50261.9575QMT	48625.1125QMT
4	GIRSUL NADI SAND BED	KH-225 PLOT-1142	GOPALPUR	320M	30 M	8093.715QMT	16187.45QMT
5	ZEERA NADI SAND BED	KH- 84 PLOT-492	HALDIPALI	160M	90M	16187.45QMT	14587CUM
6	GIRSUL NADI SAND BED	KH-166 PLOT-367, 45/1119	KUISIRA	280 M & 200 M	25M & 40M	4046.865QMT	12949.95QMT
7	KULIARI NADI SAND BED	KH-124 PLOT-161,161/675	DEULTUNDA	110M	55M	4046.865QMT	12949.95QMT
8	DANTA NADI SAND BED	KH-822, 344 PLOT -3701, 1400	KAMGAON	940M	150M	56736.927SQMT	16865CUM

SOURCES TO BE INDUCTED AS NEW SOURCES			
SL NO	NAME OF VILLAGE	KHATA NO PLOT NO	AREA
1	MAHADADA SAND QUARRY	KH NO 129 PLOT NO 488, 489	86.26
2	VADIGAON SAND QUARRY	KH NO-292 PLOT NO 943, 1372	27
3	BEHERAPALI SAND QUARRY	KHNO 239 PLOT NO 1090	18
4	BANJHIPALI SAND QUARRY	KH-286 PLOT 1079, 1160	4
5	BADMAL STONE QUARRY	KHNO134 PLOT NO 698	4.78


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SAND SAIRAT PROPOSED TO BE LEASED OUT IN NEXT FIVE YEARS							
Sl.No.	River or stream	Portion of the River or Stream recommended deed for mineral concession (GPS co-	Name of village	Length of	Average width of area recommended for mineral concession (in km)	Area recommended for mineral concession (in sqm)	Maximum Mineable sand (in cum) (60% of total potential)
				area recommended for mineral concession (in km)			
A	B	C	D	E	F	G	H
1	Anga River		Ailabhata	90	82	7380	4435
2	Anga River		Kalangapal	380	120	45600	27360
3	Anga River		Jametpali	110	500	55000	33000

BY LEASED OUT AND EXECUTED							
Sl.No.	River or	Portion of	Name of	Length of	Average	Area	Maximum
				area recommended for mineral concession (in km)			
A	B	C	D	E	F	G	H
1	Bheluapadar		Bheluapad	0.42	0.12	50,400	6381

SOURCES TO BE INDUCTED AS NEW SOURCES				
SL NO	NAME OF VILLAGE	Name of mineral	KHATA NO PLOT NO	Area of the mineral potential
1	Ainlabhata	Ainlabhata Sand bed	Khata no-1	7392
2	Kalangapali	Kalangapal	Khata no-1	45600
3	Jamutpali	Jamutpali	Khata no-1	55000


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SAND SAIRAT PROPOSED TO BE LEASED OUT IN NEXT FIVE YEARS

SL NO	RIVER OR STREAM	PORTION OF THE RIVER OR STREAM LEASED FOR MINERAL CONCESSION (GPS CO-)	NAME OF VILLAGE	LENGTH OF AREA LEASED FOR MINERAL CONCESSION (IN KM)	AVERAGE WIDTH OF AREA LEASED FOR MINERAL CONCESSION (IN KM)	AREA RECOMMENDED FOR MINER CONCESSION (IN SQ M)	MAXIMUM MINEABLE SAND (IN CUM) 60% OF TOTAL POTENTIAL	MGQ(CUM)
A	B	C		D	E	F	G	H
1	BARGAON DANTA RIVER	KH NO.785 PLOT NO.4730 AREA-12.50	BARGAON	700 M	0.035 KM	50585.71		
2	ZEERA RIVER SAND BED B	KH NO.1105 PLOT NO.8094	DHANGER	0.395	0.121	51395		
3	ZEERA RIVER SAND BED C	KH NO.1105 PLOT NO.8094	DHANGER	0.609	0.091	59488		
4	ZEERA RIVER SAND BED D	KH NO.1105 PLOT NO.8095	DHANGER	0.731	0.076	63616		
5	ZEERA RIVER SAND BED E	KH NO.1105 PLOT NO.8095	DHANGER	0.73	0.08	56655		
6	BANBASPAL	KH NO.180 PLOT NO 1, AREA 3.30 1445, AREA.10.00	BANBASPA	2	0.4	52609.134		


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7	DANTA RIVER BAUSENP ALI /KURUAN SAND BED A	MOUZA-BAUSENP ALI KH NO.62 PLOT NO.303(P) AREA=11.50 MOUZA-KURUAN KH NO.S32 PLOT NO.30259 P) AREA=100	KURUAN/BAUSENP ALI	0.68	0.09			
8	BGH ZEERA RIVER SAND BED C	KH NO.2534 PLOT NO.01(PO AREA12.50	BARGARH	0.46	0.15			
9	BGH ZEERA RIVER SAND BED D	KH NO.2534 PLOT NO.3111(PO AREA=19.60	BARGARH	0.49	0.09			


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10	AMBAPALI / SARSARA BANJARIN ALA SAND BED	MOUZA-AMBAPALI KH NO.262 PLOT NO.1087, AREA=4.74 497, AREA=6.56 MOUZA-SARSARA KH NO.1422 PLOT NO.7573(P), AREA=1.50	AMBAPALI / SARSARA	1.86	0.03			
11	AMBAPALI ZEERA RIVER SAND BED A	KH NO.262 PLOT NO.908(P) AREA=12.50	AMBAPALI	0.4	0.12			
12	AMBAPALI ZEERA RIVER SAND BED B	KH NO.262 PLOT NO.908(P) AREA=12.50	AMBAPALI	0.43	0.12			
13	AMBAPALI ZEERA RIVER SAND BED E	KH NO.262 PLOT NO.906(P) AREA=13	AMBAPALI	0.43	0.12			
14	DANG GRISULNALA SAND BED B	KH NO.331 PLOT NO.01(P) AREA=12.50	DANG	1.02	0.06			

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15	DANG GRISULNA LA SAND BED C	KH NO.331 PLOT NO.01(P), AREA=2.0 0 1369, AREA=10. 84	DANG	0.57	0.09			
16	DANG GRISULNA LA SAND BED D	KH NO.331 PLOT NO.1403(P) AREA=13	DANG	0.53	0.11			
17	BARAHGU DA DANTA RIVER SAND BED	KH NO.455 PLOT NO.299/3 065(P) 3035/306 6(P)	BARAHGU	14				


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**SAND SAIRATS ALREADY LEASED OUT AND EXECUTED
(TO BE FILLED BY TAHASILDARS FOR RESPECTIVE TAHASILS)**

Sl. No.	River or stream	Portion of the River	Length of area	Average width of	Area leased for	Mineable mineral	Production proposed in the mining plan			
							15-16	16-17	17-18	18-19
1	Jagdalu sand Quary Ong River. RSD No.	Mouza- Jagdalu Kh. No. 51 Plot No. 316(p) Kissam. Nadi	0.371 km	0.147 km	58,881.76 m ²	6900	1200	1300	1400	1500
2	Lergaan Sand Quary Ong River. RSD No.	Mouza- Lergaan Kh. No. 122 Plot No.1122(p) Kissam. Nadi	0.474 km	0.201 km	62,321.58 m ²	13000	2500	2550	2600	2650
3	Balangir Sand Quary, Jonk River, RSD No.	Mouza- Balangir Kh. No. 210 Plot No. 1121/165 2(p), 1/1773(p) Kissam. Nadi	0.683 km	0.009 km	60,702.84 m ²	9950	1900	1950	2000	2050
4	Tuifa Sand Quary Ong River, RSD No.	Mouza- Tuifa Kh. No. 138 River, Plot No. 1333 Kissam. Nadi	0.653 km	0.0056 km	39,294.97 m ²	19900	-	-	-	3980



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5	Badanki Sand Quarry, Jonk River, RSD No. No. 1/123 (p) Kissam. Nadi	Mauza-Badanki, Kh. No. 129, Plot No. 1/123 (p) Kissam. Nadi	0.382 km	0.1207 km	48,562.27 m ²	40050	1	1	8010
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SAND SAIRATS PROPOSED TO BE LEASED OUT IN NEXT 5 YEARS

Sl. No.	River or stream	Portion of the River or Stream recommended for mineral concession	Name of village	Length of area recommended for mineral concession	Average width of area recommended for mineral concession	Area recommended for mineral concession (in sq. m)	Maximum Mineable sand (in cum) (60% of total potential)	MGQ (cum)	Distance in km from different structures							Distance from village in km	Access road exists or not	
									Bridge	Culvert	Dam	Weir	Water extraction point	Water supply Head works	Extraction point for irrigation			Any other cross drainage structure
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	Mahulpali Sand Quarry, Ong River	Kh. No. 31, Plot No. 237 (p) Kissam. Nadi	Mahulpali	0.955 km	0.0070 km	59,488.78 m ²	900	1500	1	25	25	150	25	25	25	25	2	yes
2	Chhoikunjar Sand Quarry, Ong River	Kh. No. 93, Plot No. 420 (p) Kissam. Nadi	Chhoikunjar	0.611 km	0.110 km	49,776.33 m ²	900	1500	3	22	22	155	22	22	22	22	1.5	yes
3	Kumir Sand Quarry, Ong River	Kh. No. 128, Plot No. 1335/152 (p) Kissam. Nadi	Kumir	0.764 km	0.00704 km	50,585.70 m ²	900	1500	1	18	18	165	18	18	18	18	1	yes
4	Chirali Sand Quarry, Ong River	Kh. No. 43, Plot No. 148, 149 (p)	Chirali	1.5833 km	0.0952 km	776.33 m ²	5671.38	9452.3	5	14	14	120	14	14	14	14	1	yes

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A. FOR EXECUTED SOURCES TO BE REACTIONED & NEW SOURCES

Sl. No.	Name of village	Name of Minor Mineral and Area of Sairat (Ha)	Location of the Source (Total Hillock) recommended for mineral concession (GPS coordinates or Khata &	Area of the mineral potential patch (in sq m)	Average height of potential patch (in m)	Mineable mineral potential (in cum)	MGQ (cum)	Aerial distance in km from different water related				
								Bridge	Culvert	Dam/ Embankment	River/ Stream/canal/Pond/ Water Harvesting structure (with name)	Any other cross drainage structure
A	B	C	D	E	F	G	H	I	J	K	L	M
1	Bhoipura	Bhoipura Stone	K 217 P 329 P 331 P 384	0.858 hect	4.00	49.28	1757	No	No	No	No	No
2	Jhilminda	Stone quarry	K 664 Plot 1296	0.809	3 mtr	3150	2362	2 KM	No	No	5 KM	
3	Sorna	Stone quarry	K No 749 Plot 1931	1.31 hect	2 mtrs	3382	2705		No	No	8 KM	
4	Sorna	Stone quarry	K 749 Plot 2741	4.856 hec	3 meters	10500	7350					
5	Haldi	Sand bed	K 134 Plot No 608 area 2.12 in 0.857	0.857 Hec				No	Yes	No	River Jhainjhor	No
6	Chakuli Bhoipura	Sand bed	K 341 Plot No 910 P 1520	0.88170	0.50	13998	11198	5 KM	No	No	1 KM	No
7	Attabira	Attabira Sand bed	K 1594 Plot 5166	12.885 hect	0.50	64425		Yes	No	No	Yes	No
8	Sorna	Sand bed	K 749 Plot No 2862 2862/2903	8.736 HA	0.50	56784	36900	400	No	No	6 KM	
9	Jhilminda	Sand bed	K 666 Plot No 2150 2254	8.22	0.50	12072	8450		No	No	5 KM	

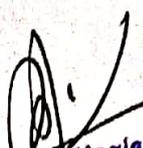

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10	Larambha Amastala	Jhainjore Larambha Sand bed	K 293 P 1326 189	13423 hec	0.50	67115	33557					
11	Jhankabahal	Sand bed	k 101 Plot No 1384	12.78	0.50	63900	31950					
12	Sindurbahal	Sand bed	K 364 Plot 899 417	19.12 HAC	0.50	95600	47800					
13	Kadobahal	Sand bed	K 383 Plot No 1130 1130/526	13.00 HAC	0.50	65000	26000					


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A. FOR EXECUTED SOURCES TO BE REAUGMENTED & NEW SOURCES

Sl. No.	Name of village	Name of Mine/ Mineral and Area of Source (Ha)	Location of the Source (Taluk, Block) becoming need for mineral concession (GPS co-ordinates of Khata & ...)	Area of the mineral patch (in sq m)	Height of mineral patch (in m)	Minerals mineral present (in sum)	UGTA (sum)	Water distances in km from different water			
								Wells	Canal	Dam/ Embankment	River/ Stream/ Canal/Pond/ Water Harvesting structure (with name)
A	B	C	D	E	F	G	H	I	J	K	L
1	Bhoipura	Bhoipura Stone	K 217 P 329 P 331 P 384	0.858 hect	4.00	49.28	1757	No	No	No	No
2	Jhilminda	Stone quarry	K 664 Plot 1296	0.809	3 mtr	3150	2362	2 KM	No	No	5 KM
3	Sorna	Stone quarry	K No 749 Plot 1931	1.31 hect	2 meters	3382	2705		No	No	8 KM
4	Sorna	Stone quarry	K 749 Plot 2741	4.856 hec	3 meters	10500	7350				
5	Haldi	Sand bed	K 134 Plot No 608 area 2.12 in 0.857	0.857 Hec				No	Yes	No	River Jhainjhor
6	Chakull Bhoipura	Sand bed	K 341 Plot No 910 P 1520	88170	0.50	13998	11198	5 KM	No	No	1 KM
7	Attabira	Attabira Sand bed	K 1594 Plot 5166	12.885 hect	0.50	64425		Yes	No	No	Yes
8	Sorna	Sand bed	K 749 Plot No 2862 2862/2903	8.736 HA	0.50	56784	36900	400	No	No	6 KM


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9	Jhilminda	Sand bed	K 666 Plot No 2150 2254	8.22	0.50	12072	8450		No	No	5 KM
10	Larambha Amastala	Jhainjore Larambha Sand bed	K 293 P 1326 189	13423 hec	0.50	67115	33557				
11	Jhankabah al	Sand bed	k 101 Plot No 1384	12.78	0.50	63900	31950				
12	Sindurbah al	Sand bed	K 364 Plot 899 417	19.12 HAC	0.50	95600	47800				
13	Kadobahal	Sand bed	K 383 Plot No 1130 1130/526	13.00 HAC	0.50	65000	26000				


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EXECUTED SOURCES TO BE RE AUCTIONED						
Name of village	Name of Minor Mineral and Area of Sairat (Ha)	Location of the Source (Total Hillock) recommended for mineral concession (GPS coordinates or Khata &	Area of the mineral potential patch (in sq m)	Average height of potential patch (in m)	Mineable mineral potential (in cum)	MGQ (cum)
B	C	D	E	F	G	H
Haldi	Sand bed	K 134 Plot No 60S area 2.12 in 0.857	0.857 Hec			
Chakuli Shoigpura	Sand bed	K 341 Plot No 910 P 1520	88170	0.50	13998	11198
Attabira	Attabira Sand bed	K 1594 Plot 5166	12.885 hect	0.50	64425	
Sorna	Sand bed	K 749 Plot No 2862 2862/2903	8.736 HA	0.50	56784	36900
Jhilminda	Sand bed	K 666 Plot No 2150 2254	8.22	0.50	12072	8450
Larambha Amastala	Jhainjore Larambha Sand bed	K 293 P 1326 189	13423 hec	0.50	67115	33557
Jhankabahal	Sand bed	k 101 Plot No 1384	12.78	0.50	63900	31950
Sindurbahal	Sand bed	K 364 Plot 899 417	19.12 HAC	0.50	95600	47800


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Sl. No.	Name of Village	Name of Minor	Location of the Source	Area of the mineral potential	Average height of mineral potential	Minerals potential	M/G (cum)	Bdgs	Cuvert	Dam/	River/	Any other
A	B	C	D	E	F	G	H	I	J	K	L	M
1	Haldi	Sand bed	K 134 Plot	0.857 Hec				No	Yes	No	River	No
2	Chakuli	Sand bed	K 341 Plot No 910 P 1520	88170	0.50	13998	11198	5 KM	No	No	1 KM	No
3	Attabira	Sand bed	K 1594 Plot 5166 hect	12.885	0.50	64425		Yes	No	No	Yes	No
4	Soma	Sand bed	K 749 Plot No 2862 2862/290 3	8.736 HA	0.50	56784	36900	400 No	No	No	6 KM	
5	Jhiminda	Sand bed	K 666 Plot No 2150 2254	8.22	0.50	12072	8450		No	No	5 KM	

EXECUTED SOURCES TO BE RE AUCTIONED

Aerial distance in km from different water related

SAND SAIRATS PROPOSED TO BE LEASED OUT IN NEXT 5 YEARS										
Sl. No.	River or stream	Portion of the	Name of	Length of area	Average width	Area recom	Maximum	MGQ (cum)		
A	B	C	D	E	F	G	H	I		
1	Chakuli	Khata	Chakuli	1600	53	Ac 16.25	88170	11198		
	Kadobahal Sand bed	Khata No 383 Plot 1130 1130 /523	Kadobahal Sand bed	2000	63	32.23	65000	26000		
2										
3	Sindurba	Khata No	Sindurba	2600	72	28.16 12.08	95600	47800		
4	Larambha	Khata No 293	Larambha	800	34	6.88	66115	33557		
	Khanda gali Sand bed	Plot No 1 Plot No 89 Plot No 1326		880 600	60 87	13.25 13.04				
5	Sorna San	Khata No	Sorna	1000	85	20.58 1.00	56784	7350		

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SAND SAIRATS PROPOSED TO BE LEASED OUT IN NEXT 5 YEARS																			
Sl. No.	River or stream	Portion of the River or Stream recommended for mineral	Name of village	Length of area recommended for mineral concessions	Average width of area recommended for mineral concessions	Area recommended for mineral concessions (in sq. m)	Maximum Mineable sand (in cum) (60% of total production)	MGG (cum)	Distance in km from different structures				Water extraction point	Water supply head water	Extraction point for irrigation	Any other cross drainage structure	Distance from village in km	Access road exists or not	Approval of District Authority of Irrigation/ Water
									Bridge	Culvert	Dam	Weir							
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	Ranj	Khata No.272 Plot No. 2520	Joring			93158.6	-	10000	0	5	-		5	3	5	4	3	2	Yes
2	Ranj	Khata No. 272 Plot No. 1100	Lemda or			67177.8	-		4	5	-		5	3	3	2	3	2	Yes
3	Utali	Khata No.151.35 Plot No.839/1375.152	Lamun da-Cheren gamun da			56817.9	-		3	3	4		5	4	5	2	3	4	Yes
4	Utali	Khata no. 93 Plot No. 709.719	Ailpur			50585.7			3	3	2		4	5	3	3	2	2	Yes New Quarry


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Sl. No.	Name of village	Name of Minor Mineral and Area of Sairat (Ha)	Location of the Source (Total Hillock recommended for mineral concession (GPS co-ordinates))	Area of the mineral potential patch (in sq m)	Average height of potential patch (in m)	Mineable mineral potential (in cum)	MCO (cum)	Aerial distance in km from different water related structures				
								Bridge	Cumret	Dam/ Embankment	Stream/ canal/ Pond/ Water Harvesting structure (with name)	Any other cross drainage structure
A	B	C	D	E	F	G	H	I	J	K	L	M
SOURCES TO BE REAUGHTIONED AFTER COMPLETION OF PRESENT LEASE PERIOD												
1	Barangpal	Sand	Khata No-474 Plot No-1109	Ac.19.52	0.3	80728.66	0-					
2	Mahada	Sand	Khata No-18 Plot No-821/1776 1445/1717 7 2244/1718	Ac.2.16 Ac.2.17 Ac.8.96								
3	Baramkel	Sand	Khata No-462 Plot No-01	Ac.66.64								
			278	Ac.17.84								
			Khata No-261									
			Plot No-892	Ac.6.60								
			893	Ac.26.20								
			960	Ac.50.24								
4	Bandhapal	Sand	Khata No-371 Plot No-01	Ac.7.60 Ac.30.60								


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**SAND SAIRATS PROPOSED TO BE LEASED OUT IN NEXT 5 YEARS
(TO BE FILLED BY TAHASILDARS FOR RESPECTIVE TAHASILS)**

Sl. No.	River or stream	Portion of the River or Stream recomme nded for mineral concessio n	Name of village	Length of area recomme nded for mineral concessio n	Average width of area recomme nded for mineral concessio n	Area recomme nded for mineral concessio n (in cum)	Maximum Mineable sand (in cum) (10% of total concessio n)	MGQ (cum)	Distance in km from different structures							Approval of District Authority of Irrigation/ Water			
									Bridge	Culvert	Dam	Weir	Water extraction point	Water supply Head works	Extraction point for irrigation		Any other cross drainage structure	Distance from village in km	Access road exists or not
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	River	Kh. No.87 Plot No.16/922, 159/923	Chuhapal	Ac. 12.35	0.08 K.M	0.28 K.M			0.3 K.M								1.5 K.M		
2	River	Kh. No.87 Plot No.1 (p)	Chuhapal II	Ac. 0.50	0.06 K.M	0.06 K.M			0.3 K.M								1.3 K.M		
3	River	Kh. No.131 Plot No.1607, 1607/1679 (p)	Khaira	Ac. 12.35	0.05 K.M	1.4 K.M			0.2 K.M								5 K.M		
4	River	Kh. No.183 Plot No.1/2165, 1/2166	Mandlath Ipa	Ac. 12.30	0.06 K.M	0.9 K.M			5 K.M								5 K.M		
5	River	Kh. No.99 Plot No.1(p), 1113 (p)	Jamselh	Ac. 12.25	0.04 K.M	1.2 K.M			0.4 K.M								1 K.M		
6	River	Kh. No.179 Plot No.906 (p)	Bartunda	Ac. 12.35	0.06 K.M	1 K.M													


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7	River	Kh. No. 102 Pial No. 100 (p)	Munkel	Ac. 12.30	0.04 K.M	0.85 K.M													0.3 K.M
8	River	Kh. No. 80 Pial No. 423, 423 / 48 (p)	Nilathar	Ac. 12.32	0.05 K.M	1.24 K.M													0.2 K.M
9	River	Kh. No. 79 Pial No. 154 (p)	Brahmand Ihi	Ac. 12.30	0.05 K.M	0.76 K.M													0.5 K.M
10	River	Kh. No. 113 Pial No. 590, 593 , 594 (p)	Kuramal	Ac. 12.30	0.06 K.M	0.8 K.M													0.03 K.M
11	River	Kh. No. 23 Pial No. 151 (p)	Kadaghu ha	Ac. 12.30	0.2 K.M	1.5 K.M													0.02 K.M


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SAND SAIBATS ALREADY LEASED OUT AND EXECUTED
[TO BE FILLED BY TAHASILDARS FOR RESPECTIVE TAHASILS]

Sl. No.	River or stream and Name of village & date of lease	Portion of the River or Stream leased for mineral concession (Sq. Km.)	Length of area leased for mineral concession (Sq. Km.)	Average width of area leased for mineral concession	Area leased for mineral concession (in sq m)	Mineable mineral potential as per approved schedule	Production proposed in the mining plan (Cum)										Any other remarks		
							18-16	14-17	17-18	18-19	15-16	14-17	17-18	18-19	15-16	14-17		17-18	18-19
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	Chuhapali River	Kh. No.87 Plot No.16/1922, 159/1923	Ac. 12.35 0.25 K.M	0.08 K.M	49778	110	110	110	110	110									
2	Chuhapali River	Kh. No.87 Plot No.1 1607, 1609/1679 (p)	Ac. 0.50 0.06 K.M	0.06 K.M	2023	194	194	194	194	194									
3	Khaira River	Kh. No.131 Plot No.1607, 1609/1679 (p)	Ac. 12.35 1.4 K.M	0.05 K.M	3396	86	86	86	86	86									
4	Mandlodi River	Kh. No.183 Plot No.1/2165, 1/2166	Ac. 12.30 0.9 K.M	0.06 K.M	49776	209	209	209	209	209									
5	Jameth River	Kh. No.99 Plot No.1(p), 1113 (p)	Ac. 12.25 1.2 K.M	0.04 K.M	49573	102	102	102	102	102									
6	Bartunda	Kh. No.179 Plot No.906 (p)	Ac. 12.35 1 K.M	0.06 K.M	49778	172	172	172	172	172									
7	Munikel River	Kh. No.102 Plot No.100 (p)	Ac. 12.30 0.85 K.M	0.04 K.M	49776	210	210	210	210	210									
8	Nilathar River	Kh. No.80 Plot No.423,423 /968 (p)	Ac. 12.32 1.24 K.M	0.05 K.M	49875	387	387	387	387	387									
9	Brahmand Inl River	Kh. No.79 Plot No.154 (p)	Ac. 12.30 0.76 K.M	0.05 K.M	49776	218	218	218	218	218									
10	Kutramal River	Kh. No.113 Plot No.590,593 ,594 (p)	Ac. 12.30 0.08 K.M	0.06 K.M	49776	258	258	258	258	258									

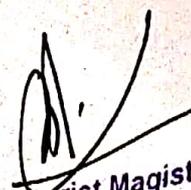
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A. FOR EXECUTED SOURCES TO BE REACTIONED & NEW SOURCES						
Sl. No.	Name of village	Name of Minor Mineral and Area of Salrat (Ha)	Location of the Source (Total Hillock) recommended for mineral concession (GPS co-ordinates or Khata & Plot No) (Sketch map to	Area of the mineral potential patch (In sq m)	Average height of potential patch (In m)	Mineable mineral potential (In cum)
A	B	C	D	E	F	G
SOURCES TO BE REACTIONED AFTER COMPLETION OF PRESENT LEASE PERIOD						
1	Chuhapal-I	Sand	Kh. No.87 Plot No.16/922, 159/923 (p)	Ac. 12.35		
2	Chuhapal-II	Sand	Kh. No.87 Plot No.1 (p)	Ac. 0.50		
3	Khaira	Sand	Kh. No.131 Plot No.1607, 1607/1679 (p)	Ac. 12.35		
4	Mandiadh-IPA	Sand	Kh. No.183 Plot No.1/2165, 1/2166	Ac. 12.30		
5	Jamseth	Sand	Kh. No.99 Plot No.1(p), 1113 (p)	Ac. 12.25		
6	Bartunda	Sand	Kh. No.179 Plot No.906 (p)	Ac. 12.35		
7	Munikel	Sand	Kh. No.102 Plot No.100 (p)	Ac. 12.30		
8	Nilathar	Sand	Kh. No.80 Plot No.423,423/968 (p)	Ac. 12.32		
9	Brahmand-ihl	Sand	Kh. No.79 Plot No.154 (p)	Ac. 12.30		
10	Kutramal	Sand	Kh. No.113 Plot No.590,593,594 (p)	Ac. 12.30		
11	Kadoghuc-ha	Sand	Kh. No.23 Plot No.151 (p)	Ac. 12.30		
SOURCES TO BE INDUCTED AS NEW SOURCES						
1	Kalangpal-I	Sand, 4.95 Hec.	Kh. No.89 Plot No..1/787			
2	Mundhela	Sand, 5.00 Hec.	Kh. No.105 Plot No.347/819 (p)			
3	Mundhela	Sand, 4.89 Hec.	Kh. No.105 Plot No.453 (p)			
4	Cherengal-hanj	Sand, 5.02 Hec.	Kh. No.67 Plot No..1			
5	Purena	Sand, 4.95 Hec.	Kh. No.134 Plot No.65 (p)			


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SAND SAIRATS ALREADY LEASED OUT AND EXECUTED

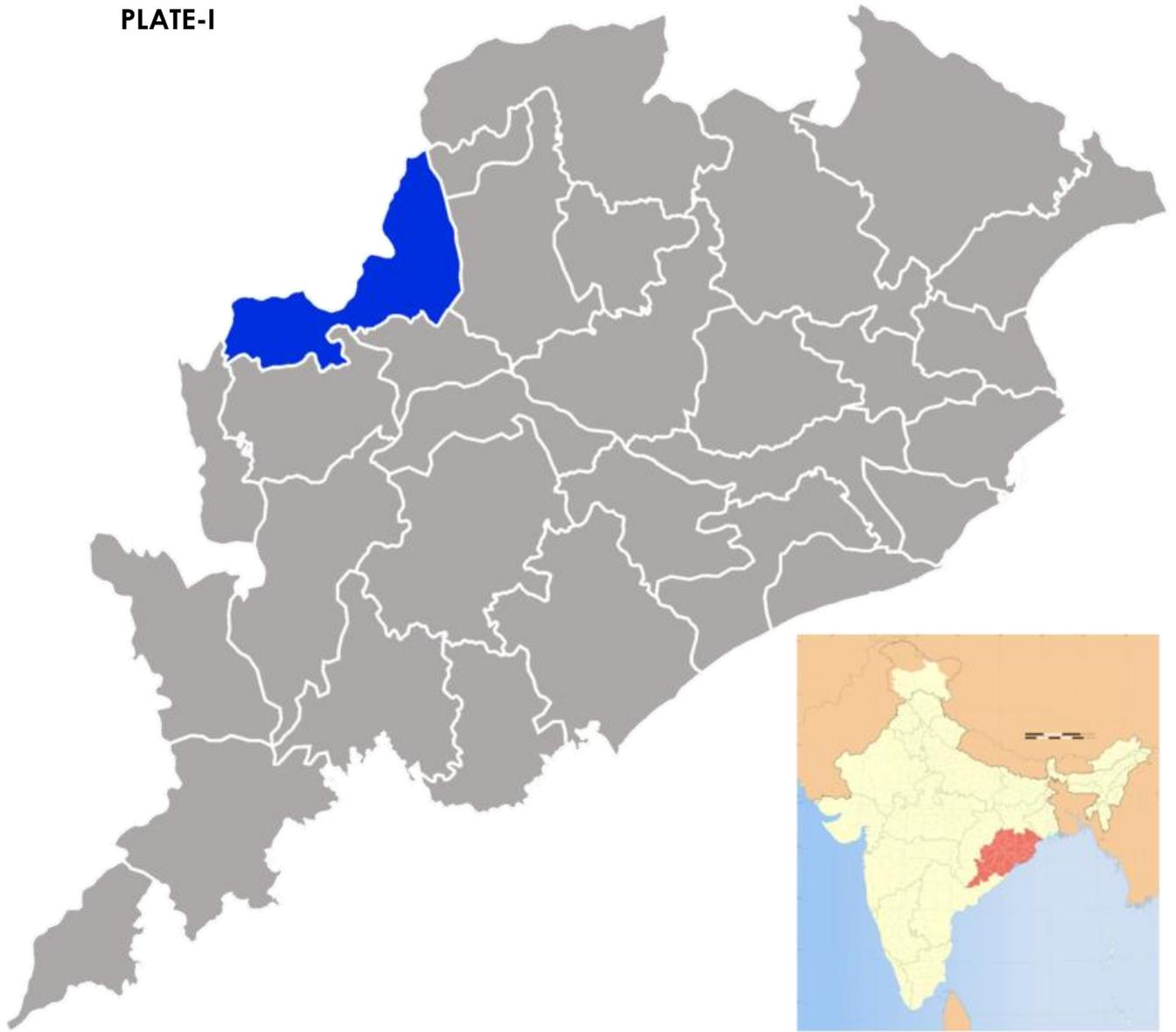
Sl. No.	Name of Sand Bed	River or stream and Name of Village & date of Registrallo n of lease deed	Portion of the River or Stream leased for mineral concessio n (GPS co-ordinates or Khata #	Length of area leased for mineral concessio n (In km)	Average width of area leased for mineral concessio n (In km)	Area leased for mineral concessio n (In sq m)	Mineable mineral potential as per approved mining plan (In cum)
A	B	C	D	E	F	G	H
1	Kumunbah all-A Sand Bed	Ong River	Khata no-99, Plot No-64(P), 20 Ac	5km			
2	Kumunbah all-B Sand Bed	Ong River	Khata no-99, Plot No-64(P), 20.02Ac	5km			
3	Ghanamal Sand Bed	Ong River	Khata no-182, Plot No- 583, 20.53Ac				
4	Deoli Sand Bed	Ong River	Khata no-237, Plot No- 263 27.22Ac				
5	Lakhamara Sand Bed	Ong River	Khata no-151, Plot No-43/703, 20.60Ac				
6	Firupali Sand Bed	Kumudi Nalah	Khata no-19, Plot No-144, 17.35Ac				
7	Singhanpur Sand Bed	Kumudi Nalah	Khata no-155, Plot No- 398, 14.40Ac				


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SAND SAIRATS PROPOSED TO BE LEASED OUT IN NEXT 5 YEARS							
Sl. No.	Name of Sand Bed	River or stream and Name of Village & date of Registratio n of lease deed	Portlon of the River or Stream leased for mlneral concesslo n (GPS co-ordinates or Khata &	Length of area leased for mlneral concesslo n (In km)	Average width of area leased for mlneral concesslo n (In km)	Area leased for mlneral concesslo n (In sq m)	Mlnearable mlneral potential as per approved mlning plan (In cum)
A	B	C	D	E	F	G	H
1	Dangaghat Sand Bed	Ong River	Khata no-172, Plot No-60/979,862 , Area-7.04 Ac			123969	74381
2	Luhurakot Sand Bed	Ong River	Khata no-120, Plot No- 211, Area-25.00Ac			101171	60702
3	chardapali Sand Bed	Ong River	Khata no-167, Plot No- 167, 15.75Ac			63738	38242


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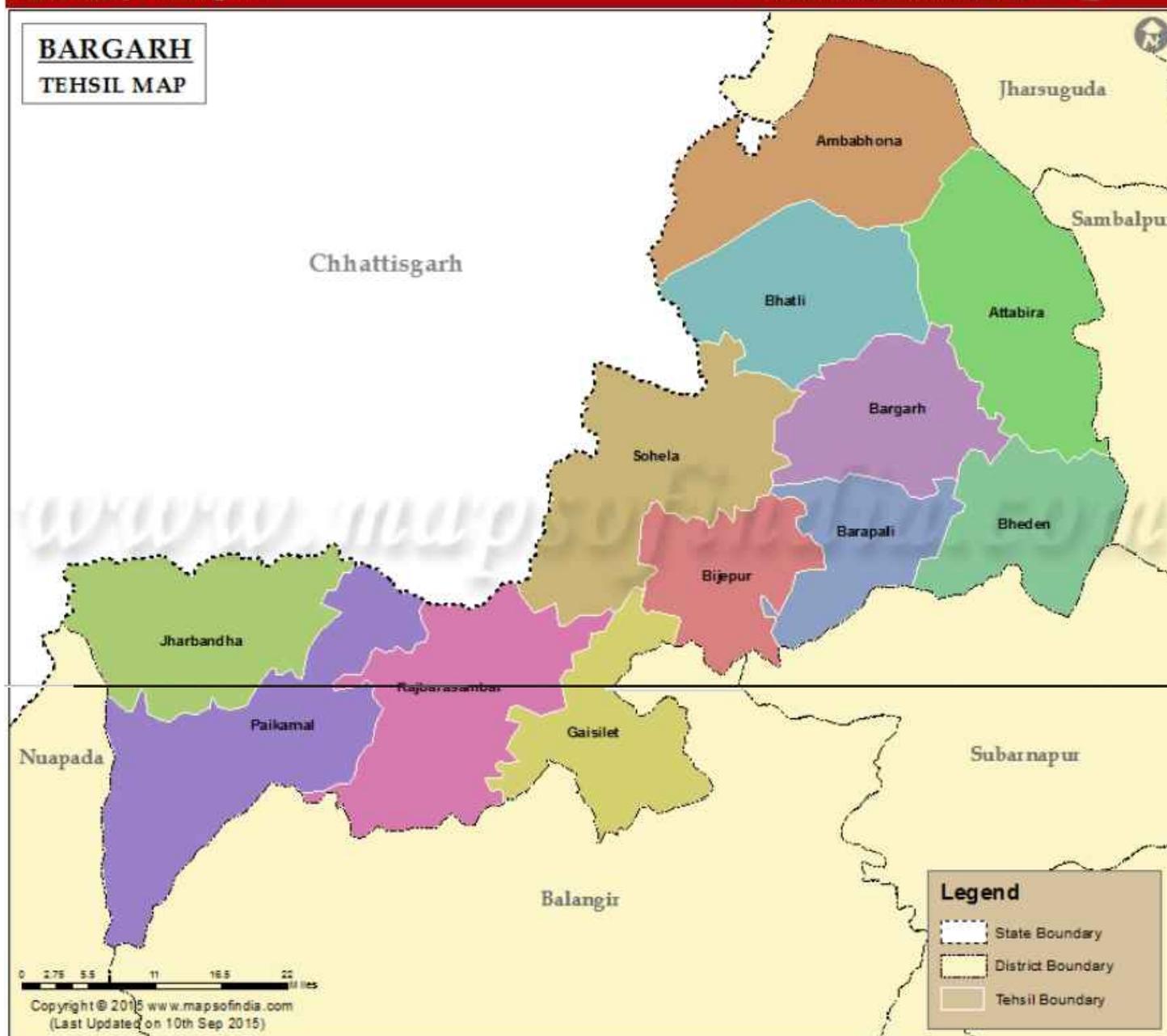
PLATE-I



Tehsil Map of Bargarh

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BARGARH TEHSIL MAP





GEOLOGICAL AND MINERAL MAP OF BARGARH DISTRICT.

10 5 0 10 20 30 40 50 Kms. SCALE: 1CM = 10 KMS.

