

Executive summary for Environment
management plan of Gadchiroli District
Sand Ghats

(Area of sand ghats- 1-4.99 Ha)

For 70 sand ghats Public Hearing

Project Proponent

District Mining Officer, Gadchiroli

Environmental Consultant



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QCI-NABET Accredited EIA Consultant for Mining of Minerals (Sector 1 1(a))

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Executive summary of Environment Management Plan of the Gadchiroli District

1.0 INTRODUCTION

Gadchiroli District Collector is planning to auction the sand spots in the district for the year 2021-22 as sand is the major material for the infrastructural development. As per EIA notification 2006 prior environmental clearance is needed for start of mining, so as a procedure of EC Public hearing is primary stage.

As per Maharashtra sand policy 03/09/2019, District mining officer is project proponent initially and after auction of sand ghats environmental clearance will be transferred to successful bidder. Total 104 Sand ghats are surveyed but only 70 ghats are finalized for EC as per feasibility checked by Taluka level Technical Committee headed by Tahsildar and team members are Dy. Engineer Irrigation department, Junior Geologist appointed by Directorate of Geology and Mining, Junior Geologist from G.S.D.A. Gadchiroli and representative of Maharashtra Pollution Control Board. Manual method of mining will be adopted for scooping of sand from designated area of River bed.

1.1 SALIENT FEATURES OF THE PROPOSED SAND GHATS

The mining will be carried out manually with opencast method of mining by engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading is proposed to be carried out manually and transportation of mineral from the mine to the depot is proposed through tractor with trolley arrangement. As the mineral is dry, loose in nature, no drilling and blasting are required and hence it is not proposed. Sand excavated manually, will be loaded directly into vehicles.

Mining of sand is proposed to be carried out by the manual method. It involves following steps

- i. River Bed Mining activities do not involve top soil excavation.
- ii. Excavation of sand is done by using spade and bucket.
- iii. Drilling and blasting is not required.
- iv. Mining will be carried out during Auction allotted period or as per EC letter.
- v. Transport of sand from the river bed to destination will be carried out by tractor-trolley
- vi. No machinery will be used during mining operations
- vii. No pumping of water from river bed is envisaged as the proposed sand ghat is completely dry and their approach roads are also dry and accessible.

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- viii. The deposits occur at the middle/bottom of the river. During the entire lease period, the deposit will be worked from the top surface to permissible maximum mineable depth suggested by Joint survey of Taluka committee.
- ix. The entire quantity of sand excavated will be transported and will be used for infrastructure development purpose. Thus, there will not be generations of any solid waste from mining activity, only very small amount of solid waste generated by the use of plastic wrappers of food items which is consumed by labors but it will be collected separately and disposed of at common waste treatment area nearby.
- x. Mining will be carried out as per the approved Mining Plan.
- xi. It is proposed to employ the local people wherever possible in the proposed project activities. Direct employment from these proposed sand ghat is mentioned in the list attached herewith.

Details of sand ghats are attached in **Table 01**:

2.0 IMPACT ON SURROUNDING ENVIRONMENT& MITIGATION MEASURES

2.1 GENERAL:

Mining projects may have likely impacts on the various environmental components viz. Air, Water, Noise, Land, Biological Environment and Socio-economics. The magnitude of impact of sand ghat projects and their mitigation measures are provided as follows.

2.2 LAND ENVIRONMENT:

Deviation from planned mining procedure can lead to bank erosion /cutting and thereby river channel shifting degradation of land, causing loss of properties and degradation surrounding of landscape.

Mitigation Measures:

- Sand will be mined out in lease area as per the mining plan.
- The mining will remain confined to river bed only and in no case disturb any surface area outside which may affect topography or drainage.
- No stream should be diverted for the propose of sand mining.
- All the provisions stipulated in the Maharashtra Minor Mineral Extraction (Development and Regulation) Rules, 2013, will be meticulously followed.

It is ensured to compliance of the various point mentioned in sustainable

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Sand Mining Guidelines issued by MoEF&CC.

2.3 WATER ENVIRONMENT

Disturbance of natural drainage, flow of water and ground water table due to excavation of sand from river in absence of scientific mining. If excess excavation of sand done in the project area then depletion of ground water level causes the drought in summer season & effect on public life in all respect like farming, drinking water issue etc. Adverse Effect on aquatic life like fish, prawn and other living organism.

Mitigation Measures:

- In the projects, it is not proposed to divert or truncate any stream.
- No proposal is envisaged for pumping of water either from the river or tapping the ground water.
- In the lean months, the proposed sand mining will not expose the base flow of the river and hence, there will not be any adverse impact on surface hydrology and ground water regime due to this project.
- The proponent will adhere all guidelines and rules for proper and scientific method of mining during the period of extracting the sand.
- Sand mining will be carried out in dry river bed portion only.
- The excavation of sand will be scientifically carried out up to the permissible thickness of sand in line with Joint Survey Report. There will not be any intersection with ground water table.

2.4 AIR ENVIRONMENT:

In river bed mining activities, vehicle is the source of both particulate and gaseous pollutants while the dust particles of sand act as particulate pollutants especially during loading and transportation. In general SPM (Suspended particulate matters PM10) and to a limited extent of Sulphur dioxide (SO₂) and Nitrous Oxides (NO_x) will be due to fossil fuel-based vehicles, in the region which may be within the permissible limits, as it is a small-scale quarrying. The dust liberated in mining and other related operations is injurious to health if inhaled. The fugitive dust generation during mining and transportation requires some mitigation.

Mitigation Measures:

- Proper mitigation measures like water sprinkling on haul roads approaching the lease area and up to river bank will be adopted to control fugitive dust emission.
- Over loading of tractor trollies and consequent spillage on the roads will be avoided.
- Measures such as covering tarpaulins over the loaded trollies will

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prevent spreading of sand.

- It will be ensured that all transportation vehicles will carry a valid PUC certificate.
- Plantation of trees along the roads to help reduce the impact of dust in the nearby villages.
- Periodic air monitoring will be proposed to monitor the ambient air quality.

2.5 NOISE ENVIRONMENT

Sand mining will be done by manual method, so no noise generated during mining, however noise will be generated at Ghat from movements of tractors which is used for transportation.

Mitigation Measures

- Manual excavation is allowed in project site, No Machinery will be deployed inside the river bed.
- Noise arising out due to transportation shall be abated and controlled at source to keep within permissible limit.
- Restricted working hours. Sand mining operation has to be carried out between 6 am to 6 pm.

2.6 BIOLOGICAL ENVIRONMENT

Excessive and unscientific riverbed sand mining results in the destruction of aquatic and riparian habitat through large changes in the channel morphology.

➤ Terrestrial Ecology

Flora: The area is completely barren and devoid of any significant vegetation in the river. The lease area is totally covered by sand and not having any tree species, only some grasses observed in patches. So, there is no chance of cutting of any tree due to mining operation

Fauna: As there is no forest cover in sand ghat area, no significant wild life observed in this area. Thus, there will be no significant impact of the river quarry mining project on the biological environment in lease area.

➤ Aquatic Ecology

No adverse impacts will be envisaged on the existing aquatic fauna, on downstream side (away from site) as the mining confined to above water

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level only and not disturbing the water table.

Mitigation Measures:

- No mining will be carried out during the monsoon season i.e. from 10th June to 30th September to minimize impact on aquatic life, which is mainly breeding season.
- Mining will be carried out on the dry part of the river bed to avoid disturbance to the aquatic habitat and movement of fish species.
- No adverse impacts will be envisaged on the existing aquatic fauna, on downstream side (away from site) as the mining confined to above water level only and at all touching/disturbing water table.

2.7 PLANTATION

The entire mining area falls within river course and gets flooded during monsoons; therefore, no plantation is possible within this area. Plantation will mainly be done along the haulage road and along the length of the river bank or approach road to depot or places as recommended by Gram Panchayat. Number of trees will be planted with various types of species. Native plants like Mango, Neem, Eucalyptus, Peepal, Gulmohar, and other local species will be selected in suitable combination, so that they can grow fast and also have good leaf cover.

2.8 OCCUPATIONAL HEALTH

1. Occupational health surveillance program for workers is undertaken periodically.
2. First Aid Facility at the proposed mining Site.

3.0 OTHER SAFETY PRECAUTIONS

1. Fencing of approach road for avoiding un-authorized entry to the active sand ghat.
2. Provision of Boards displaying all information as regards to mining of sand including quantity, period of mining activity and details of project proponent.
3. Display of warning signal boards at prominent locations.
4. Maintenance of approach road to sand ghat.
5. Deployment of adequate security arrangement.
6. Provision of safety equipment to workers.
7. Strict prohibition of use of any fuel for cooking or burning of waste or any other material.

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8. Adequate provision for collection and disposal of domestic solid waste.
9. Awareness for safety and health to the workers deployed at sandghat.

4.0 STATUTORY REQUIREMENTS

It is accepted that effective resource management cannot be done in isolation. The Department therefore vigorously pursues approaches towards coordination and integration where possible, so as to lead to coordinated regulatory systems.

A regulatory system consists of both statutory and non-statutory components. In the Sectoral-specific strategy for prospecting and mining, the Department participates within an integrated environmental management system which is administered in terms of the Acts and Rules. Other Acts dealing with matters relating to the conservation and protection of the environment and which a holder of a mining authorization must also take cognizance of, include inter alia, the following:

- Maharashtra State Sand Policy 2019
- Sustainable sand mining and management guidelines, MoEF & CC, 2016
- Maharashtra Minor Mineral Extraction Development and Regulation) Rules, 2013.
- The Environment (Protection) Act, 1986
- Enforcement and Monitoring Guidelines for Sand mining, MoEF & CC, 2020
- Hon. NGT's decisions and Hon. Supreme Court of India's Decisions.

TABLE 01: Details of proposed sand ghats 2021-22

Sr. No.	Taluka	Name of Village/Sand Ghat	Name of sand ghat	Name of River	Survey No./Gut No.	Length	Width	Depth	Area in Sq.m	Area (Ha)	Quantity (Brass)	Road Length (m)	Road Width (m)	Total Plantation	Tractors	Man power	Total water requirement	EMP Cost
1.	Gadchiroli	Dibhnachak	Dibhnachak	Kathani	82, 83	200	50	0.7	10000	1.00	2473	752	3	852	5	21	17.13	6,41,800/-
2.	Gadchiroli	Ambeshivani	Ambeshivni (Ram Mandir)	Kathani	319, 320	200	60	0.5	12000	1.20	2120	1544	3	1644	4	21	33.76	9,88,600/-
3.	Gadchiroli	Bodlimal	Bodlimal	Kathani	135/46, 135/34	300	60	0.5	18000	1.80	3180	1234	2.5	1384	7	37	25.02	8,81,600/-
4.	Gadchiroli	Adpalli	Adpalli-1	Kathani	41, 42	250	70	0.5	17500	1.75	3092	670	3	795	6	32	15.94	6,30,500/-
5.	Gadchiroli	Lanzeda	Lanzeda	Kathani	347, 345, 342, 341	125	80	0.5	10000	1.00	1767	1593	2.8	1656	4	21	32.97	10,93,400/-
6.	Gadchiroli	Ambeshivani	Ambeshivani (Gai ghat)	Kathani	305, 352, 353	150	50	0.5	7500	0.75	1325	998	3	1073	3	16	21.97	8,04,700/-
7.	Gadchiroli	Rajgatamal	Rajgatamal	Kathani	296, 297	200	50	0.5	10000	1.00	1767	1023	3	1123	4	21	22.82	7,60,200/-
8.	Gadchiroli	Khursa	Khursa	Kathani	131, 130, 129, 128	150	80	0.5	12000	1.20	2120	1089	3	1164	4	21	24.05	7,82,100/-
9.	Gadchiroli	Kurkheda	Kurkheda	Kathani	18, 15, 14	125	100	1	12500	1.25	4417	1103	3	1166	9	47	25.18	9,31,900/-
10.	Gadchiroli	Kaneri	Kaneri	Wainganga	320, 321, 323, 332	250	160	0.5	40000	4.00	7067	1295	2.8	1420	15	78	29.38	11,77,000/-
11.	Gadchiroli	Sakhra	Sakhra	Wainganga	456, 457, 458, 480, 567	300	70	0.7	21000	2.10	5194	846	2.5	996	11	58	18.58	9,22,400/-
12.	Gadchiroli	Porla	Porla	Wainganga	752	300	100	0.5	30000	3.00	5300	4006	2.5	4156	11	58	77.04	23,29,400/-
13.	Gadchiroli	Nagri	Nagri	Wainganga	433, 435, 436, 437	300	150	1	45000	4.50	15901	1440	3	1590	33	171	37.13	16,74,500/-
14.	Gadchiroli	Katli	Katli	Wainganga	201, 204	300	120	1	36000	3.60	12721	844	3	994	26	135	23.35	11,58,600/-
15.	Dhanora	Rajoli	Rajoli	Kathani	170, 171, 172	275	40	0.6	11000	1.10	2332	1192	3	1330	5	27	26.80	9,65,500/-
16.	Chamorshi	Jairampur	Jairampur	Wainganga	25, 26, 28	200	150	0.5	30000	3.00	5300	1211	3	1311	11	58	28.06	11,29,900/-
17.	Chamorshi	Ganpur Rai.	Ganpur Rai.	Wainganga	490, 491, 488, 489	120	100	0.4	12000	1.20	1696	657	3	717	4	21	14.89	6,32,800/-
18.	Chamorshi	Dotkuli	Dotkuli	Wainganga	114, 118, 119	250	80	0.7	20000	2.00	4947	1020	3	1145	10	52	23.99	9,82,500/-
19.	Chamorshi	Wagholi	Wagholi	Wainganga	53, 54, 55	200	100	0.5	20000	2.00	3534	817	3	917	7	37	19.05	7,79,800/-
20.	Chamorshi	Mohurli	Mohurli	Wainganga	56, 60	200	100	0.5	20000	2.00	3534	683	2.5	783	7	37	14.53	7,06,200/-
21.	Chamorshi	Mohurli Mo.	Mohurli Mo. Jibgaon	Wainganga	95, 96	200	100	0.7	20000	2.00	4947	1074	3.2	1174	10	52	26.05	10,49,100/-
22.	Chamorshi	Amgaon Ma.	Amgaon Ma.	Pohar	244, 245, 239	110	100	0.5	11000	1.10	1943	740	3	795	4	21	16.61	6,84,000/-
23.	Mulchera	Yela	Yela	Pranhita	226, 225	100	100	0.7	10000	1.00	2473	1138	3	1188	5	27	25.14	9,47,200/-
24.	Armori	Arsoda	Arsoda	Wainganga	386, 384, 383	225	200	1	45000	4.50	15901	917	2.8	1030	33	171	25.00	14,44,800/-
25.	Armori	Waghala	Waghala	Wainganga	34, 11, 6, 5	225	200	1	45000	4.50	15901	184	2.8	297	33	171	10.34	10,91,600/-
26.	Armori	Saigaon	Saigaon	Wainganga	351, 352, 353, 356/1	170	90	1	15300	1.53	5406	550	3	635	11	58	14.09	7,65,500/-

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27.	Armori	Shivni Buj.	Shivni Buj.-1	Wainganga	88, 87, 86, 85, 82, 81, 71	350	100	1	35000	3.50	12367	1186	3	1361	26	135	30.68	14,28,400/-
28.	Armori	Shivni Buj.	Shivni Buj.-2	Wainganga	725, 724, 722, 721, 720, 714	250	100	1	25000	2.50	8834	424	3	549	18	94	12.94	8,24,100/-
29.	Armori	Rampur Chak	Rampur Chak	Gadhavi	178/1, 178/2, 179	300	50	0.8	15000	1.50	4240	922	2.8	1072	9	27	20.29	8,40,800/-
30.	Armori	Deulgaon	Deulgaon-1	Wainganga	156	250	100	1	25000	2.50	8834	1004	3	1129	18	94	25.12	11,56,100/-
31.	Armori	Deulgaon	Deulgaon-2	Khobragadi	170	200	50	0.5	10000	1.00	1767	855	3	955	4	21	19.29	7,68,000/-
32.	Armori	Wankhi	Wankhi	Khobragadi	113	200	100	1	20000	2.00	7067	596	3	696	15	78	15.85	8,00,900/-
33.	Desaiganj	Kurud	Kurud (Bodegaon ghat)	Wainganga	335, 336, 337	100	100	0.7	10000	1.00	2473	544	3	594	5	27	12.67	6,64,100/-
34.	Desaiganj	Kurud	Kurud (Juni Wadsa ghat)	Wainganga	496/1, 496/2, 496/3	100	100	0.5	10000	1.00	1767			50	4	21	1.04	8,98,100/-
35.	Desaiganj	Kondhala	Kondhala Mendha ghat	Wainganga	332, 333, 334, 335, 336, 337, 338	380	130	1	49400	4.94	17456	661	2.8	851	36	186	20.87	13,01,400/-
36.	Desaiganj	Kondhala	Kondhala Sindrai ghat	Wainganga	280, 281	125	80	1	10000	1.00	3534	1566	2.5	1629	7	37	30.64	11,46,100/-
37.	Desaiganj	Wadsa	Wadsa	Wainganga	625, 626, 628	200	100	1	20000	2.00	7067	1430	3	1530	15	78	33.36	12,97,800/-
38.	Desaiganj	Amgaon	Amgaon	Wainganga	283, 284, 285, 286, 289, 755	200	100	0.6	20000	2.00	4240	900	2.8	1000	9	47	20.25	7,73,500/-
39.	Kurkheda	Kurkheda	Kurkheda	Sati	6	200	50	0.5	10000	1.00	1767	130	3	230	4	21	4.07	4,13,000/-
40.	Kurkheda	Kumbhitola	Kumbhitola	Sati	77, 78	200	50	0.5	10000	1.00	1767	260	3	360	4	21	6.80	4,65,000/-
41.	Kurkheda	Ghati	Ghati	Sati	139, 140	200	60	0.5	12000	1.20	2120	685	3	785	4	21	15.72	6,45,000/-
42.	Sironcha	Medram mal	Medram mal	Medram Nala	266	200	50	0.5	10000	1.00	1767	1393	3	1493	4	21	30.59	9,58,200/-
43.	Sironcha	Timalgudam	Timalgudam	Timalgudam Nala	17, 19	120	50	0.5	6000	0.60	1060	982	3	1042	2	11	21.37	7,66,800/-
44.	Sironcha	Chipurdubba Rai.	Chipurdubba Rai.-1	Chipurdubba Nala	5/2, 4/2	200	50	0.5	10000	1.00	1767	212	3.5	312	4	21	6.32	4,35,800/-
45.	Sironcha	Chipurdubba Rai.	Chipurdubba Rai.-2	Chipurdubba Nala	30	200	50	0.5	10000	1.00	1767	590	3.5	690	4	21	15.20	5,87,000/-
46.	Sironcha	Nagaram	Nagaram	Godavari	529, 530, 601	200	100	1	20000	2.00	7067	630	3.5	730	15	78	18.14	7,29,500/-

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47.	Sironcha	Maddikunta	Maddikunta	Godavari	442, 443, 440, 441	200	100	1	20000	2.00	7067	868	3	968	15	78	21.56	8,34,700/-
48.	Sironcha	Aarda	Aardamal	Godavari	332, 335, 336, 434	200	100	1	20000	2.00	7067	1197	3	1297	15	78	28.47	9,86,300/-
49.	Sironcha	Ankissamal	Ankissamal-1	Godavari	246, 244, 233, 231, 230, 216, 214	200	100	1	20000	2.00	7067	2780	3	2880	15	78	61.71	18,51,000/-
50.	Sironcha	Ankissamal	Ankissamal-2	Godavari	234, 233, 330	200	100	1	20000	2.00	7067	2666	3	2766	15	78	59.32	18,05,400/-
51.	Sironcha	Chintarvela	Chintarvela-1	Godavari	606, 609	200	100	1	20000	2.00	7067	1172	3	1272	15	78	27.94	11,47,800/-
52.	Sironcha	Chintarvela	Chintarvela-2	Godavari	649, 650	200	100	1	20000	2.00	7067	2014	4	2114	15	78	55.69	15,24,600/-
53.	Sironcha	Mukadigutta Rai.	Mukadigutta Rai.-1	Godavari	85	200	100	1	20000	2.00	7067	2008	3	2108	15	78	45.50	14,82,200/-
54.	Sironcha	Mukadigutta Rai.	Mukadigutta Rai.-2	Godavari	91, 96	200	100	1	20000	2.00	7067	1923	3	2023	15	78	43.71	11,82,200/-
55.	Sironcha	Tekdamotla	Tekdamotla-1	Godavari	127	200	100	1	20000	2.00	7067	1923	3	816	15	78	18.37	7,93,900/-
56.	Sironcha	Tekdamotla	Tekdamotla-2	Godavari	130	200	100	1	20000	2.00	7067	1472	3	1572	15	78	34.24	11,36,300/-
57.	Sironcha	Regunthamal	Regunthamal-1	Pranhita	132	200	100	1	20000	2.00	7067	2348	2.8	2448	15	78	50.29	14,96,600/-
58.	Sironcha	Kotapali	Kotapali	Pranhita	378	200	100	1	20000	2.00	7067	1307	2.5	1407	15	78	27.51	10,20,300/-
59.	Sironcha	Kotamal	Kotamal	Pranhita	124, 125, 126	200	100	1	20000	2.00	7067	797	3	897	15	78	20.07	7,76,300/-
60.	Bhamragad	Yechli	Yechli	Indravati	497, 498	100	100	0.6	10000	1.00	2120	977	2.8	1027	4	21	20.58	7,21,800/-
61.	Bhamragad	Rela	Rela	Indravati	43, 41	100	100	0.8	10000	1.00	2827	777	3	827	6	32	17.74	6,55,800/-
62.	Aheri	Avalmari	Avalmari	Pranhita	263, 86	140	80	1	11200	1.12	3958	485	3	555	8	43	12.11	5,56,000/-
63.	Aheri	Vatra Khu. Sa	Vatra Khu. Sa	Pranhita	22, 24	130	90	1	11700	1.17	4134	75	3	140	9	48	3.65	3,85,500/-
64.	Gadchiroli	Aadapalli	Adapalli-2	Kathani	36	150	70	0.5	10500	1.05	1855	626	3	701	4	21	14.33	4,44,600/-
65.	Kurkheda	Nanhi	Nanhi	Sati	122, 123, 120	300	60	0.5	18000	1.80	3180	362	3	512	7	37	9.80	4,87,800/-
66.	Desaiganj	Savangi	Savangi	Wainganga	210, 217, 218, 219, 220, 221, 222, 223	376	125	1	47000	4.70	16608	390	3	578	34	177	15.51	8,80,200/-

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67.	Gadchiroli	Pardikupi	Pardikupi	Wainganga	766, 767, 768	200	100	0.5	20000	2	3534	1040	3	1140	7	37	23.74	7,84,000/-
68.	Gadchiroli	Pulkhal	Pulkhal	Wainganga	387, 388	230	100	1	23000	2.3	8127	1171	3	1286	17	90	28.43	9,38,900/-
69.	Armori	Kitali	Kitali	Wainganga	80, 81	100	100	1	10000	1	3534	1500	2.8	1550	7	37	31.60	10,38,000/-
70.	Armori	Dongarsavangi	Dongarsavangi	Wainganga	19, 20, 21	300	100	1	30000	3	3535	1446	3	1596	7	37	32.56	11,31,400/-