

**EXECUTIVE SUMMARY ON  
DRAFT ENVIRONMENTAL MANAGEMENT PLAN**

**FOR**

**SAND GHATS**

**AT**

**AKOLA DISTRICT**

**STATE – MAHARASHTRA**

**FOR PUBLIC HEARING FOR 30 SAND GHATS**

**PROPONENT**

**DISTRICT MINING OFFICER, COLLECTOR OFFICE, AKOLA**

**CONSULTANT**

**ENVIRO TECHNO CONSULT PRIVATE LIMITED**

68, MAHAKALI NAGAR-2  
NEAR MANEWADA SQUARE  
NAGPUR 440 024

**MAY 2021**

**Introduction :**

District Collector, Akola intends to auction sand ghats and appointed District Mining Officer Akola as project proponent as per sand mining guidelines dated 03.09.2019. Total 30 sand ghats are identified by Taluka level Technical Committee chaired by Tahsildar and Dy. Engineer Irrigation, Junior Geologist, Directorate of Geology and Mining, Junior Geologist G.S.D.A., representative of Maharashtra Pollution Control Board for scooping of sand by manual method.

List of sand ghats proposed for auction prior environmental clearance are as below

Table 1.0 Details of Sand Ghat :

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Sr. No.	Name of Village	Tahsil	River/ Nallah	Nearest Survey No.	Area in Sqm.	Proposed Depth for excavation in m	Quantity Permitted for mining of Sand in Brass	Length of Approach Road	Width of Approach	No. of Workers	No. of Tractors	No of Trees along Bank	No of Trees along village Road	Water Requirement in cum/day	EMP cost in Rs. Lakhs
1	WadadKhu.	Akola	Purna	92 to 95,103 to 107,116 to 118,126 to 128	18750	0.9	5963	951	4m-6m	33	23	375	951	1.66	13.94
2	Mhaisang	Akola	Purna	710,1,739,740,711	10080	0.8	2849	450	4m-6m	28	11	360	450	1.56	9.6
3	Dahihanda	Akola	Shahanur	246 to 248, 252 to 257, 260, 263 to 267, 270,273, 274, 276	10200	0.8	2883	610	4m-6m	28	11	425	610	1.56	11.05
4	Eklara	Akola	Purna	7, 8, 5, 307, 306, 303, 274, 272, 279, 271, 270, 268, 269, 264, 261, 254, 253	10500	0.5	1855	2900	4m-6m	28	7	125	2900	1.56	25.36
5	Danapur	Telhara	Wan	47, 45, 44, 42, 34, 33, 717 to 721, 714, 709 to 714, 701 to 703, 667, 670, 658, 655, 650	30000	0.9	9540	1223	4m-6m	48	37	1500	1220	1.96	22.32
6	TalegaonPaturda	Telhara	Purna	54,55,61	10000	0.9	3180	863	4m-6m	28	12	200	860	1.56	11.32
7	Bhod	Akot	Purna	63	10045	1	3549	1661	4m-6m	28	14	145	1600	1.56	16.86
8	Keliveli	Akot	Purna	41,39,40,33	10500	2.5	1855	1070	4m-6m	28	7	375	1070	1.56	13.67
9	Pilakwadi	Akot	Purna	1,22,66,263	13608	2.5	2404	587	4m-6m	28	9	290	587	1.56	10.1
10	Manjri (Kanchanpur)	Balapur	KanchanpurNallha	43,47 to 52,5,57,59,66 to 79,87,89,91 to 94,98,99,109,494	17500	0.6	3710	2500	4m-6m	33	14	1250	2500	1.66	28.75
11	Nagad	Balapur	Purna	3,172 to 175,177,178,196 to 210,223 to 229,231 to 233,248,251	10680	2.9	3396	410	4m-6m	28	13	550	410	1.56	9.88
12	Kajikhed-1	Balapur	Purna	88,89,93,99 to 103,111 to 113,125 to 129, 131 to 133	10100	0.9	3212	530	4m-6m	28	12	500	530	1.56	10.92
13	Kajikhed-2	Balapur	Mun	1,6 to 15,22,23,34,35	10500	0.9	3339	530	4m-6m	28	13	525	530	1.56	11.1
14	Bahadura	Balapur	Mun	9 to 13,15,16,21 to 25,31 to 33	10800	0.8	3053	500	4m-6m	28	12	450	500	1.56	10.46
15	Lakhpuri-1	Murtizapur	Purna	531,534,539,540, 546,565,566	10500	0.9	3339	1057	4m-6m	28	13	350	1050	1.56	13.87
16	Lakhpuri-2	Murtizapur	Purna	568,569,1,2,16	10800	1	3816	1723	4m-6m	28	15	360	1750	1.56	18.92
17	Virvada	Murtizapur	Purna	1,2,22,23,235 to 241	22780	1	8049	1087	4m-6m	48	31	335	1087	1.96	15.23
18	Dapura-2	Murtizapur	Purna	14,15	10730	1	3792	490	4m-6m	28	15	185	498	1.56	10.16
19	Kolsara-1	Murtizapur	Purna	77,78,79,90	11000	0.8	3109	978	4m-6m	28	12	220	978	1.56	12.68
20	Kolsara-2	Murtizapur	Purna	14,15,16	11250	0.9	3578	1050	4m-6m	28	14	225	1050	1.56	13.29

*Executive summary Akola Sand Ghats*

21	Khaparwada-1	Murtizapur	Purna	63	10100	0.9	3212	665	4m-6m	28	12	250	665	1.56	10.61
22	Khaparwada-2	Murtizapur	Purna	37-40	10500	0.9	3366	932	4m-6m	28	13	180	932	1.56	12.18
23	Khaparwada-3	Murtizapur	Uma	94 , 98 , 97 , 46 , 48 , 10 , 11 , 16 , 13 , 18 to 20, 99 , 103 , 5 to 9 , 264 , 270 , 269 , 276 , 284 , 277	10425	1	4956	1000	4m-6m	33	19	450	1000	1.66	14.44
24	Bhatori	Murtizapur	Purna	464, 468, 473,466,467,465	18200	1	6431	2540	4m-6m 4m-6m	33	25	450	2540	1.66	25.55
25	GhungshiHasnapur	Murtizapur	Purna	2,3,4,5,6	10230	2.9	3253	296	4m-6m	33	13	310	300	1.66	8.29
26	Mungshi	Murtizapur	Purna	37,38,39,2	23400	3	8268	255	4m-6m	48	14	780	255	1.96	
27	Durgawada	Murtizapur	Purna	1 to 4, 243 to 249,32,33,35,37,41,42,43,56	10875	0.9	3458	898	4m-6m	33	13	360	898	1.66	13
28	Lonsana	Murtizapur	Pedhi	14,15,138,139,147,150,152,154	10750	0.9	3418	978	4m-6m	33	13	215	980	1.66	12.79
29	Takwada	Murtizapur	Uma	2 to 7,97 to 99,101 to 104.106 to 109,112,113,126,	12300	1	4346	236	4m-6m	33	17	410	236	1.66	8.78
30	Sangwa Mel	Murtizapur	Purna	2,74,27,52,76,277	24900	1	8798	1057	4m-6m	43	34	415	1057	1.86	15.59

**●Status of Statutory Clearances for Sand Ghat**

Name & Address of Allottee	District Mining Officer Akola / Succesful Bidder Akola District, Akola
Status of the lease	New, Individual/ Project Proponent/Succesful Bidder for auction of sandghat by District Collector Akola.
Mineral for which lessee intends to mine	Ordinary Sand for Construction purpose
Name & Address of the Prospecting Agency	Taluka level Technical Committee chaired by Tahsildar and Dy. Engineer Irrigation, Junior Geologist, Directorate of Geology and Mining, Junior Geologist G.S.D.A., representative of Maharashtra Pollution Control Board.
Grampanchayat NOC	Received from Gramsabha as per public consultation procedure defined in sand mining guidelines of Maharashtra State dated 03.09.2019.
Plan Period for Activity	Up to one year from the date of allotment of sand ghat or up to scooping of Allotted/Permitted quantity mined out, whichever is earlier excluding stipulated monsoon period between 10 June -30 September

**●Method of Mining :**

The mining will be manual opencast mining method of scooping using simple tool like spade/pawdas.

- a. Over burden/Soil Removal:  
No overburden/Soil is anticipated.
- b. Scooping of Sand /Loading  
The ordinary sand will be loaded manually by labours.
- c. Hauling  
Ordinary sand is transported through tractors /trucks with permissible quantity.
- d. No machinery will be utilized.
- e. Period of scooping of sand will be for one year excluding monsoon period of 10<sup>th</sup> June -30<sup>th</sup> Sept or as defined by district collector.

**Executive summary Akola Sand Ghats**

- About 28-48 labours per ghat will be required.
- The site services will be provided by allottee/Successful Bidder, Office, First Aid and Rest Shelters will be temporarily constructed 20m away from the bank of river.
- Applied area for sand extraction is covered by dark basalt and which has been derived/ transported from black basalt of surrounding flat and well tilled area. The sand of the applied area is found to be underlain by dark basalt of the river bed.
- Anticipated Environmental impacts and Management Plan

**A summary of air pollution control measures is given below:**

S. No	Impact Source	Impact	Control measure
1	Transport Road	On Air Quality On Land / Rd stability/ Rd degradation	<ul style="list-style-type: none"><li>• Compaction, gradation and drainage on both sides &amp; development of green belts</li><li>• Proper maintenance.</li><li>• Regular water spraying.</li><li>• Avoiding over filling of tractor and consequent spillage on the roads</li><li>• Air quality will be monitoring at impacted village.</li></ul>
2	Truck/ Tractor Movement	Air Quality	<ul style="list-style-type: none"><li>• No overloading of trucks.</li><li>• Sand carrying trucks will be effectively covered by tarpaulin to avoid escape of fines to the atmosphere.</li><li>• Enforcing speed limit.</li><li>• Regular monitoring of the exhaust fumes.</li><li>• No Engine of tractor/truck will be kept on during the filling.</li><li>• If possible entry be restricted to river bed</li></ul>
3	Ramp and Sand Reach	Mining Operations	<ul style="list-style-type: none"><li>• Regular ramp Inspection and Ramp maintenance</li><li>• Provision of dusk masks.</li><li>• Mining will be done during day time between fixed</li></ul>

			hours only.
4	Bank Management	Bank Erosion/ Flood Plain management	<ul style="list-style-type: none"> <li>• Green belt along bank</li> <li>• Plantation of wide leaf tall trees on banks and grass along slanting portion of bank.</li> </ul>

● **Occupational Health and Services**

1	Occupational Health & Safety Measures to Control Dust Inhalation	Safety of Workers and Mining Operations	<ul style="list-style-type: none"> <li>• Providing a working environment that is conducive to safety &amp; health</li> <li>• The management of occupational safety &amp; health is the prime responsibility of mine owner.</li> <li>• Provision of necessary personal protective equipments</li> <li>• Ensuring employees at all levels receive appropriate training and are competent to carry out their duties and responsibilities</li> <li>• Provision of First Aid and Drinking Water, Temporary rest Room</li> </ul>
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● **Noise control measures will be provided in the proposed crushing and screening plant.**

- In addition, personnel working near high noise level generating sources will be provided with ear muffs
- No equipment generating Noise excluding tractor/truck will be permitted.
- No tractor engine will be kept idle.
- Conduct periodic audiometric tests for employees working close to high noise generating areas such as compressors, the loading and unloading sections, etc
- Provision of PPE's will be made and their proper usage will be ensured for hearing protection of the workers as well as visitors.

### ●Traffic Management

- The mineral transporting vehicles will be registered with the forest department/revenue department and only registered vehicles will be used for mineral transport.
- The PUC certificate for exhaust emissions for all the transport vehicles will be made mandatory.
- All the vehicles will be properly maintained to control emissions and noise generation.
- Drivers of all the vehicles will strictly follow traffic rules.
- Speeds of the mineral transport vehicles will be regulated.
- Overloading of the tractors will not be allowed
- The mineral transporting tractors will be properly covered with tarpaulin to avoid fugitive emissions.
- Batch transport system will be adopted in consultation with the other sand ghat operators in the area to avoid excess traffic at a time on the road.
- Mineral transportation will be done only during day time only.
- Strict action will be taken against any driver, who do not comply the traffic rules.

### ●Plantation program

It is proposed to plant local species during the monsoon period along bank of river and village roads.

List of Species Proposed for green Belt Development

Local species like Neem, peepal,subab hul, Karanj, Gulmohar etc will be planted.

- Successful Bidder/ Sand Ghatal lottee will implement the Environmental Management Plan for the amount as per Table 1.0 on his own.

Successful Bidder/ Sand Ghatal lottee will submit compliance to terms of conditions stipulated in the prior environmental clearance to the District Mining Officer and respective Tahsildar with



the expenses made on implementation of environmental management plan.

**District Mining Officer/respective Tahsildar will monitor the implementation of approved environmental management plan along with District Level Committee headed by District Collector as stipulated in Sand Mining Rules 2019.**