

**EXECUTIVE SUMMARY ON  
DRAFT ENVIRONMENTAL MANAGEMENT PLAN**

**FOR**

**SAND GHATS**

**AT**

**AMRAVATI DISTRICT**

**STATE – MAHARASHTRA**

**FOR PUBLIC HEARING FOR 45 SAND GHATS**

**PROPONENT**

**DISTRICT MINING OFFICER, COLLECTOR OFFICE, AMRAVATI**

**CONSULTANT**

**ENVIRO TECHNO CONSULT PRIVATE LIMITED**

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

**December 2022**

**Introduction :**

District Collector, Amravati intends to auction sand ghats and appointed District Mining Officer Amravati as project proponent as per sand mining guidelines dated 28.01.2022. Total 45 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 :

Table 1.0 Details of Sand Ghat :

Sr.No.	Tahsil	Sand ghat Name	River	Nearest Survey No.	Length	Width	Depth	Area	Quantity in	Length of Approach Road (m)	Width of Approach (m)	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
					m	m	m	Sqm	Brass								
1	Tiosa	Jawara (F)	Wardha	2 and 3	205	50	0.5	10250	1811	245	04m-06m	28	7	50	245	1.56	6.45
2	Tiosa	Fattepur (J)	Wardha	36 and gaonthan	216	50	0.4	10800	1527	281	04m-06m	28	6	55	280	1.56	6.66
3	Tiosa	Godari (Namaskari)	Wardha	42 and 48	510	50	0.5	25500	4505	625	04m-06m	38	17	125	625	1.76	10.38
4	Tiosa	Chandur Dhore	Wardha	2 and 4	420	50	0.5	21000	3710	1850	04m-06m	38	14	370	1850	1.76	20.47
5	Tiosa	Bharwadi	Wardha	1, 2, 5, 6	560	50	0.5	28000	4947	808	04m-06m	48	19	160	800	1.96	12.06
6	Tiosa	Isapur	Wardha	1 and gaonthan	335	50	0.5	16750	2959	150	04m-06m	28	11	30	150	1.56	59.05
7	Tiosa	Umbarkhed	Wardha	51 and 52	300	50	0.5	15000	2650	639	04m-06m	28	10	130	640	1.56	10.07
8	Tiosa	Dhamantri	Wardha	1 and 2	430	50	0.5	21500	3799	519	04m-06m	38	15	100	520	1.76	9.46
9	Morshi	Nimbharni	Wardha	1	330	45	0.5	14850	2624	1375	04m-06m	28	10	275	1375	1.56	15.9
10	Morshi	Shivra Bhag 1	Wardha	29	360	45	0.5	16200	2862	717	04m-06m	28	11	140	720	1.56	10.68
11	Morshi	Shivra Bhag 2	Wardha	1	300	40	0.5	12000	2120	412	04m-06m	28	8	80	410	1.56	7.91
12	Dharni	Sonabardi	Tapi	18, 19 and 20	500	20	0.5	10000	1767	2245	04m-06m	28	7	450	2245	1.56	22.95
13	Dharni	Mokha (Chinchghat)	Tapi	23 and 26	1000	25	0.5	25000	4417	1723	04m-06m	38	17	350	1720	1.76	19.81
14	Dharni	Ratnapur	Tapi	14,16,36 and 37	1000	15	0.5	15000	2650	2500	04m-06m	28	10	500	2500	1.56	25.3
15	Bhatkuli	Vathoda Shukleshwar	Purna	692,693,694,676,675,688,673,672,670,640,639, 438,637,626, 626/1,623,610,612,613,592,575, 574,573,571,570,575,577,579,581,582,580,584, 585,586,22,21,19,17,16,696,697,621,568,567, 620,618,616,614,569,559 557,554,556,500 to 586	1800	15	0.5	27000	4770	362	04m-06m	48	18	70	360	1.96	8.46
16	Bhatkuli	Sonarkheda, Bhalsi, Dhangarkheda	Purna	Sonarkheda 25, 26, 27, 28, 22, 14, 13, 12, 11, 1, Bhalsi 32, 31, 27, 26, 25, 24, 12, 11, 10, 9, 8, 7,6,5, 4, 188, 187, 185 Dhangarkheda 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 182, 181	1700	10	0.5	17000	3004	1216	04m-06m	28	12	240	1210	1.56	14.84
17	Bhatkuli	Ganoja Devi	Pedhi	107,105,100,85,80,83,87,86,85,84	1283	10	0.5	12830	2267	570	04m-06m	28	9	110	570	1.56	9.28
18	Bhatkuli	Dadhi	Pedhi	121,122,123,124,125,127,128,103,104,105	1200	20	0.5	24000	4240	1071	04m-06m	38	16	214	1070	1.76	14.04
19	Bhatkuli	Chakur	Pedhi	144,147,1,11,12,13,14	800	20	0.5	16000	2827	366	04m-06m	28	11	70	360	1.56	7.84
20	Bhatkuli	Kanfodi	Pedhi	1 to 4, 6 to 8, 10 to 15, 169, 165	1400	20	0.5	28000	4947	405	04m-06m	48	19	80	400	1.96	8.57
21	Bhatkuli	Bhatkuli	Pedhi	243 to 251, 260,263,264,268,to 276,189,934,935,252,240,239,236,235,233,232, 221 to 226	1200	20	0.5	24000	4240	471	04m-06m	38	16	90	470	1.76	8.89
22	Bhatkuli	Nanded Khu.	Purna	2 to 5, 137 to 142, 159 to 164, 166	1500	15	0.5	22500	3975	609	04m-06m	38	15	120	610	1.76	10.19
23	Bhatkuli	Purnanagar	Purna	632/3, 636. 648 to 650, 653 to 655, 658 to 660	1222	15	0.5	18330	3239	750	04m-06m	38	12	150	750	1.76	11.16
24	Daryapur	Nanded Bu.	Purna	97,98,99,109, 110,111,112,140	1100	10	0.5	11000	1943	550	04m-06m	28	7	110	550	1.56	8.98
25	Daryapur	Khairi	Purna	90,94,95,96,97,98,99,100,79,81,82,85,86,87,88,89	2300	5	0.5	11500	2032	1650	04m-06m	28	8	330	1650	1.56	18.24
26	Daryapur	Khanpur Chiparda	Chandrabhaga	1 to 6, 150,151,160,161	1080	15	0.5	16200	2862	700	04m-06m	28	11	140	700	1.56	10.55

Executive summary Amravati Sand Ghats

27	Daryapur	Chandola	Purna	18,16,17,224,225,216,226	405	29	0.5	11745	2075	1426	04m-06m	28	8	285	1420	1.56	16.11
28	Daryapur	Karatkhed	Purna	38,39,40,49,50,51,52,54	396	26	0.5	10296	1819	2547	04m-06m	28	7	500	2540	1.56	25.27
29	Daryapur	Lasur	Purna	279,274,276,272, 263, 266, 267, 261, 246, 258, 280, 287	315	32	0.5	10080	1781	1708	04m-06m	28	7	340	1710	1.56	18.55
30	Daryapur	Ramtirth	Purna	468,469, 483, 484, 486, 494, 543, 544, 545	396	27	0.5	10692	1889	1830	04m-06m	28	7	370	1830	1.56	19.54
31	Daryapur	Jahanpur Dighi	Purna	18,19,22,24,25	1000	10	0.5	10000	1767	1499	04m-06m	28	7	300	1490	1.56	16.63
32	Daryapur	Wadura	Purna	13,14,315	1000	10	0.5	10000	1767	1120	04m-06m	28	7	220	1120	1.56	13.62
33	Achalpur	Donoda - Khairi	Sapan	27,59 to 61, 68 to 70, 78 to 83	512	20	0.5	10240	1809	1356	04m-06m	28	7	270	1350	1.56	15.44
34	Achalpur	Wadgaon Khu.- Savali Bu.	Chandrabhaga	Asadpur 462, Tirmalpur 2,3 Wadgaon Khu. 1 to 3, 5,6,10 to 12, 14,15,22, Savali Bu.8,9	504	20	0.5	10080	1781	320	04m-06m	28	7	65	320	1.56	7.05
35	Achalpur	Savlapur-Khanapur	Purna	Savlapur - 32 to 36, 38, 9,41 to 44, 49,50,53, Khanapur 78	600	20	0.5	12000	2120	490	04m-06m	28	8	100	490	1.56	8.57
36	Achalpur	Hiwra Purna-Yelki Purna	Purna	Hiwra Purna-18,20,28,29,48, Yelaki Purna - 264 to 270, 273,274,277,278,280,281 to 286	505	20	0.5	10100	1784	1366	04m-06m	28	7	270	1366	1.56	15.59
37	Achalpur	Asadpur	Sapan	Yesurna - 493 to 499, Nimbhari 9	505	20	0.5	10100	1784	850	04m-06m	28	7	170	850	1.56	11.58
38	Chandur Bazar	Hirur Purna	Purna	41,42,43,93,94,95,96,97	500	21	0.5	10500	1855	2313	04m-06m	28	7	465	2310	1.56	23.58
39	Chandur Bazar	Talani Purna	Purna	10	477	21	0.5	10017	1770	1428	04m-06m	28	7	290	1430	1.56	16.34
40	Chandur Bazar	Takarkheda	Purna	1,13,11,41,21,122	562	18	0.5	10116	1787	1433	04m-06m	28	7	290	1430	1.56	16.25
41	Dhamangaon Railway	Naygaon	Wardha	57,58	400	35	0.5	14000	2473	711	04m-06m	28	10	140	710	1.56	10.52
42	Dhamangaon Railway	Borgaon Nistane	Wardha	71,72	400	55	0.5	22000	3887	2461	04m-06m	38	15	490	2460	1.76	25.39
43	Dhamangaon Railway	Gokulsara 1	Wardha	2,3,9,10	800	55	0.5	44000	7774	2134	04m-06m	48	30	430	2130	1.96	23.76
44	Dhamangaon Railway	Gokulsara 2	Wardha	15,16	600	58	0.5	34800	6148	2134	04m-06m	48	24	430	2130	1.96	23.43
45	Dhamangaon Railway	Dighi Mahalle	Wardha	3,4	800	55	0.5	44000	7774	505	04m-06m	48	30	100	500	1.96	10.26

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

Name & Address of Allottee	District Mining Officer Amravati / Successful Bidder Amravati District, Amravati
Status of the lease	New, Individual/ Project Proponent/Successful Bidder for auction of sand ghat by District Collector Amravati.
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 28.01.2022.
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 Amravati Sand Ghats**

- About 28-58 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>

*Executive summary Amravati Sand Ghats*

			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>
---	--	--	--

**• 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, subabhul, Karanj, Gulmohar etc will be planted.

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

Successful Bidder/ Sand Ghat allottee 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 2022.**