

**EXECUTIVE SUMMARY ON  
DRAFT ENVIRONMENTAL MANAGEMENT PLAN**

**FOR**

**SAND GHATS**

**AT**

**AKOLA DISTRICT**

**STATE – MAHARASHTRA**

**FOR PUBLIC HEARING FOR 37 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

**NOVEMBER 2022**

**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 & 28.01.2022. Total 37 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.	Taluka	Name of village	Sand Ghat	Survey No./Gut No.	River/Nallah	Proposed size			Available Sand	Area in Hectore	Length of Approach Road	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 Lakhs
						Length	Breadth	Depth									
1	Akola	Kapileshwar	Kapileshwar	204, 205, 206, 207, 209, 210, 222 ते 226	Purna	1000	12	0.90	3816	1.20	728	38	15	500	728	1.76	12.57
2	Akola	Wadad Kh	Wadad Kh	93, 94, 95, 102, 103, 105, 126, 127	Purna	1300	14	0.50	3216	1.82	865	48	12	560	865	1.96	14.11
3	Akola	Eklara	Eklara	3, 6 to 9, 253, 254, 303, 306, 307, 263, 264 269, 279	Purna	1600	16	0.50	4523	2.56	318	38	17	800	318	1.76	11.31
4	Akola	Katyar	Katyar	6 to 8, 15 to 18, 20 to 31, 320 to 325	Purna	1500	9	0.8	3816	1.35	2154	38	15	750	2154	1.76	23.8
5	Akola	Mhaisang	Mhaisang	739, 740, 711, 745, 715, 716, 717, 25	Purna	1500	12	0.50	3180	1.80	634	38	12	750	634	1.76	12.99
6	Akola	ugawa	ugawa	539, 542 to 547, 524, 549, 550, 552, 567 to 570, 647 to 649, 684, 687, 686, 747, 767, 764, 763, 34, 39 to 42, 45, 46	Morna	700	18	0.4	1781	1.26	174	28	7	350	174	1.56	7.4
7	Akot	Keliveli	Keliveli	33, 34, 38, 39, 40, 41	Purna	1300	14	0.50	3216	1.82	1045	38		650	1045	1.76	15.37
8	Akot	Pilakwadi	Pilakwadi	1, 2, 260, 261, 262, 263, 266	Purna	850	14	0.90	3784	1.19	657	38	14	425	657	1.76	11.64
9	Murtizapur	Lakhpuri	Lakhpuri 2	2, 3, 8, 16, 17	Purna	1000	12	0.9	3816	1.20	856	38	15	500	856	1.76	13.46
10	Murtizapur	Virwada	Virwada	1, 2, 22, 23, 235, 237 to 241	Purna	1350	15	0.50	3578	2.03	237	38	14	675	237	1.76	9.95
11	Murtizapur	Dapura	Dapura 2	14, 15, 107, 1, 12, 35 to 37	Purna	800	17	0.50	2403	1.36	1498	38	9	400	1498	1.76	17.13
12	Murtizapur	Kolsara	Kolsara 1	14, 15, 16	Pedhi/purna	600	25	0.50	2650	1.50	779	38	10	300	779	1.76	11.65

**Executive summary Akola Sand Ghats**

13	Murtizapur	Kolsara	Kolsara 2	74 to 77	purna	590	27	0.50	2814	1.59	836	38	11	295	836	1.76	10.68
14	Murtizapur	Khaparwada	Khaparwada 1	63	purna	600	22	0.50	2332	1.32	1168	38	9	300	1168	1.76	14.32
15	Murtizapur	Khaparwada (Khairi)	Khaparwada 2 (Khairi)	37 to 40	purna	570	28	0.50	2820	1.60	1843	38	11	285	1843	1.76	19.08
16	Murtizapur	Ghugshi Hasnapur	Ghugshi Hasnapur	2 to 6	purna	450	30	0.50	2385	1.35	278	38	9	225	278	1.76	7.71
17	Murtizapur	Durgwada	Durgwada	1 to 4, 243 to 247, 249, 32,33,35 to 38,40 to 44, 56	purna & Kamalganga	1200	14	0.50	2968	1.68	500	38	11	600	500	1.76	11.25
18	Murtizapur	Lonsana	Lonsana	14, 15, 139, 140, 147, 148, 150, 151	Pedhi	1000	14	0.50	2473	1.40	1340	38	11	500	1340	1.76	16.58
19	Murtizapur	Sangwamel	Sangwamel	274 to 277	Purna	1250	14	0.50	3092	1.75	1770	38	12	625	1770	1.76	20.32
20	Murtizapur	Sangvi	Sangvi	3, 5, 6, 10, 40, 78, 83 to 85, 87, 56, 62, 63, 64, 65, 67, 68,	purna and uma	1300	10	0.8	3675	1.30	680	38	14	650	680	1.76	12.93
21	Murtizapur	Bapori	Bapori	29, 412 to 418, 420 to 424,	Pedhi	1100	12	0.8	3731	1.32	642	38	14	550	642	1.76	12.16
22	Murtizapur	Pingla	Pingla	26, 27, 86	Purna	450	23	1	3657	1.04	636	38	14	225	636	1.76	10.49
23	Balapur	Bahadura	Bahadura	9 to 16, 21 to 25, 32, 33	Man	1200	14	0.50	2968	1.68	1212	38	11	600	1212	1.76	16.23
24	Balapur	Kajikhed	Kajikhed 1	88 to 91, 93, 99 to 103, 111 to 114, 120, 122 to 129, 131 to 133	Purna	2400	14	0.50	5936	3.36	1822	48	23	1200	1822	1.96	24.26
25	Balapur	Kajikhed , Hingana Shikari	Kajikhed 2, Hingana Shikari	1, 6 to 13, 34,35,72 to 81, 92 , 17,19,20	Man	2500	10	0.50	4417	2.50	972	48	17	1250	972	1.96	18.23

**Executive summary Akola Sand Ghats**

26	Balapur	Nagad	Nagad	3, 172 to 178, 196 to 204, 209, 210, 224 to 229, 231 to 233, 251,	Purna	2100	14	0.50	5194	2.94	1577	48	20	1050	1577	1.96	21.63
27	Balapur	Nimbi	Nimbi	92,96,97, 100 to 102,107	Man	1000	10	1	3534	1.00	1783	38	14	500	1783	1.76	19.9
28	Balapur	Mokha	Mokha	1, 2, 3, 10, 15, 199, 200	Purna	1300	12	0.8	4410	1.56	2665	38	17	650	2665	1.76	26.99
29	Balapur	Swarupkhe d	Swarupkhe d	1, 2, 123,137 to 145, 151 to 159	Purna	1200	12	0.8	4071	1.44	727	38	16	600	727	1.76	14.01
30	Balapur	Sagad	Sagad	1 to 5, 36 to 44, 229, 230, 239	Purna	1500	12	0.7	4452	1.80	903	38	17	750	903	1.76	15.15
31	Balapur	Manjri	Manjri	37, 39, 40, 42, 43, 47, 49 to 54, 57, 59, 66, 67, 69 to 80 87, 88, 90, 92, 94 to 98 109	Kanchanpur Nullha	1800	8	0.7	3562	1.44	1470	38	14	900	1470	1.76	19.7
32	Balapur	Janhuri Mel	Janhuri Mel	8 to 13, 17, 23 to 27, 130, 131	Purna	1200	12	0.7	3562	1.44	1604	38	14	600	1604	1.76	19.14
33	Balapur	Hata	Hata	3, 35, 36, 39 to 45, 47 to 52, 856 to 859, 862 to 867, 873, 874, 694, 767,	Purna	1500	10	0.7	3710	1.50	1320	38	14	750	1320	1.76	17.91
34	Balapur	Lohara	Lohara 1	86,89,90,92,93,95,113,114,118, 135 to139, 901 to914, 894, 895, 959, 891 to 898, 888, 818, 819	Man river	1200	9	0.7	2671	1.08	1090	38	10	600	1090	1.76	15.33
35	Balapur	Dongargao n	Dongargao n	653 to 665, 638 to 641	Man River	1000	10	1	3534	1.00	656	38	14	500	656	1.76	12.01
36	Telhara	Talegaon Paturda	Talegaon Paturda	53, 54, 55, 57, 58, 61 to 64	Purna	1380	12	0.50	2926	1.66	1631	38	11	690	1631	1.76	19.62
37	Telhara	Wangargao n	Wangargao n	68, 69, 70, 71,72	Purna	800	13	1	3675	1.04	1185	38	11	400	1185	1.76	15.05

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

Name & Address of Allottee	District Mining Officer Akola / Successful Bidder Akola District, Akola
Status of the lease	New, Individual/ Project Proponent/Successful Bidder for auction of sand ghat 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 & 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 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, subabul, 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.**