

**EXECUTIVE SUMMARY ON
DRAFT ENVIRONMENTAL MANAGEMENT PLAN**

FOR

SAND GHATS

AT

AMRAVATI DISTRICT

STATE – MAHARASHTRA

FOR PUBLIC HEARING FOR 20 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

JULY 2025

Introduction :

District Collector, Amravati intends to auction sand ghats and appointed District Mining Officer Amravati as project proponent as per sand mining guidelines dated 08.04.2025. Total 22 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 Forest, B.D.O. 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 Taluka	Name of Sand Ghat	Name of Village Panchayat	Name of River	Nearest Survey No.	Length	Width	Depth	Area in Hec.	Quantity in Brass	Length of Approach Road in 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
						in m	in m	in m	in Ha	in Brass							
1	Morshi	Nimbarni	Rajurwadi	Wardha	1	250	48	0.5	1.20	2120	346	28	9	50	346	2	1275287
2	Morshi	Shivra Bhag 1	Rajurwadi	Wardha	29	240	60	0.5	1.44	2544	708	28	10	50	708	2	1530883
3	Morshi	Shivra Bhag 2	Rajurwadi	Wardha	1	250	48	0.5	1.20	2120	800	28	9	50	800	2	1276194
4	Tiosa	Jawara (F)	Jawara Fattepur	Wardha	2 and 3	205	50	0.5	1.03	1811	849	28	7	40	849	2	1090415
5	Tiosa	Fattepur (J)	Fattepur	Wardha	36 and gaonthan	216	50	0.5	1.08	1908	971	28	8	45	971	2	1149077
6	Tiosa	Godari (Namaskari)	Fattepur	Wardha	42 and 48	510	50	0.5	2.55	4505	426	36	18	100	426	2	2709257
7	Tiosa	Chandur Dhore	Bharwadi	Wardha	2 and 4	420	50	0.5	2.10	3710	1767	36	15	85	1767	2	2234003
8	Tiosa	Bharwadi	Bharwadi	Wardha	1, 2, 5, 6,7,8	740	50	0.5	3.70	6537	202	48	26	150	202	2	3930223
9	Tiosa	Isapur	Fattepur	Wardha	1 and gaonthan	335	50	0.5	1.68	2959	621	36	12	70	621	2	1780327
10	Tiosa	Umbarkhed	Umbarkhed	Wardha	51 and 52	300	50	0.5	1.50	2650	604	36	11	60	604	2	1594425
11	Tiosa	Dhamantri	Dhamantri	Wardha	1 and 2	430	50	0.5	2.15	3799	763	48	15	90	763	2	2285114
12	Bhatkuli	Vathoda Shukleshwar	Vathoda Shukleshwar	Purna	19,17,16,696,697,507,621,620,618,616,614,563,568,567,559,557,554,556,580	700	15	0.5	1.05	1855	513	28	8	140	513	2	1116850
13	Bhatkuli	Sonarkheda, Bhalsi, Dhangarkheda	Sonarkheda, Bhalsi, Dhangarkheda	Purna	Sonarkheda 28,27,26,25,22,11,12,13,14, Bhalsi 4,5,6,7,8,9,10,11,12,24,25,26,27,31,32,185,187,188, Dhangarkheda 1,2,3,4,5,6,7,13,14,15,181,182	1700	15	0.5	2.55	4505	831	48	18	340	831	2	2711474
14	Bhatkuli	Purnanagar	Purnanagar	Purna	633, 634, 636, 650, 649, 648, 647, 646, 645, 644, 643, 642	1222	15	0.5	1.83	3239	830	36	13	250	830	2	1949548
15	Achalpur	Asadpur-Wadgaon Khu.-Savali Bu.	Shahapur & 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	1.01	1781	364	28	7	100	364	2	1071723
16	Achalpur	Yesurna - Nimbhari	Yesurna & Nimbhari	Sapan	Yesurna - 493 to 499, Nimbhari 9	505	20	0.5	1.01	1784	800	28	7	100	800	2	1074719

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17	Dhamangaon Railway	Borgaon Nistane	Borgaon Nistane	Wardha	71, 72	350	30	1	1.05	3710	496	36	15	70	496	2	2231356
18	Dhamangaon Railway	Gokulsara 1	Gokulsara	Wardha	9,10	340	40	1	1.36	4806	1600	48	19	70	1600	2	2891919
19	Dhamangaon Railway	Gokulsara 2	Gokulsara	Wardha	15,16	350	30	1	1.05	3710	469	36	15	70	469	2	2231302
20	Dhamangaon Railway	Dighi Mahalle	Dighi Mahalle	Wardha	3,4	400	30	1	1.20	4240	706	48	17	80	706	2	2550401

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

Name & Address of Allottee	District Mining Officer Amravati / Successful Bidder
Status of the lease	New, Individual/ Project Proponent/Successful Bidder/Sand Depot Owner 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 Forest,B.D.O.
Grampanchayat NOC	Not required as defined in sand mining guidelines of Maharashtra State dated 08.04.2025.
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 10th June -30th Sept or as defined by district collector.

- About 28-46labours 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">● Compaction, gradation and drainage on both sides & development of green belts● Proper maintenance.● Regular water spraying.● Avoiding over filling of tractor and consequent spillage on the roads● Air quality will be monitoring at impacted village.
2	Truck/ Tractor Movement	Air Quality	<ul style="list-style-type: none">● No overloading of trucks.● Sand carrying trucks will be effectively covered by tarpaulin to avoid escape of fines to the atmosphere.● Enforcing speed limit.● Regular monitoring of the exhaust fumes.● No Engine of tractor/truck will be kept on during the filling.● If possible entry be restricted to river bed
3	Ramp and Sand Reach	Mining Operations	<ul style="list-style-type: none">● Regular ramp Inspection and Ramp maintenance● Provision of dusk masks.● Mining will be done during day time between fixed

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

● **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"> • Providing a working environment that is conducive to safety & health • The management of occupational safety & health is the prime responsibility of mine owner. • Provision of necessary personal protective equipments • Ensuring employees at all levels receive appropriate training and are competent to carry out their duties and responsibilities • Provision of First Aid and Drinking Water, Temporary rest Room
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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 2025.

List of proposed sand ghats :

Sr.No	SDO	Name of Taluka	Name of Sand Ghat	Name of Village Panchayat	Name of River	Nearest Survey No.	Length in m	Width in m	Depth in m	Area in Hec.	Quantity in Brass	Upset Price
1	Morshi	Morshi	Nimbharni	Rajurwadi	Wardha	1	250	48	0.5	1.20	2120	1272085
2		Morshi	Shivra Bhag 1	Rajurwadi	Wardha	29	240	60	0.5	1.44	2544	1526502
3		Morshi	Shivra Bhag 2	Rajurwadi	Wardha	1	250	48	0.5	1.20	2120	1272085
Total										3.84	6784.45	4070671
4	Tiosa Bhatkuli	Tiosa	Jawara (F)	Jawara Fattepur	Wardha	2 and 3	205	50	0.5	1.03	1811	1086572
5		Tiosa	Fattepur (J)	Fattepur	Wardha	36 and gaonthan	216	50	0.5	1.08	1908	1144876
6		Tiosa	Godari (Namaskari)	Fattepur	Wardha	42 and 48	510	50	0.5	2.55	4505	2703180
7		Tiosa	Chandur Dhore	Bharwadi	Wardha	2 and 4	420	50	0.5	2.10	3710	2226148
8		Tiosa	Bharwadi	Bharwadi	Wardha	1, 2, 5, 6,7,8	740	50	0.5	3.70	6537	3922261
9		Tiosa	Isapur	Fattepur	Wardha	1 and gaonthan	335	50	0.5	1.68	2959	1775618
10		Tiosa	Umbarkhed	Umbarkhed	Wardha	51 and 52	300	50	0.5	1.50	2650	1590106

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11		Tiosa	Dhamantri	Dhamantri	Wardha	1 and 2	430	50	0.5	2.15	3799	2279152
12		Bhatkuli	Vathoda Shukleshwar	Vathoda Shukleshwar	Purna	19,17,16,696,697,507,621,620,618,616,614,563,568,567,559,557,554,556,580	700	15	0.5	1.05	1855	1113074
13		Bhatkuli	Sonarkheda , Bhalsi, Dhangarkheda	Sonarkheda , Bhalsi, Dhangarkheda	Purna	Sonarkheda 28,27,26,25,2211,12,13,14 Bhalsi 4,5,6,7,8,9,10,11,12,24,25,26,27,31,32,185,187,188, Dhangarkheda 1,2,3,4,5,6,7,13,14,15, 181,182	1700	15	0.5	2.55	4505	2703180
14		Bhatkuli	Purnanagar	Purnanagar	Purna	633, 634, 636, 650, 649, 648, 647, 646, 645, 644, 643, 642	1222	15	0.5	1.83	3239	1943110
Total										21.21	37478.80	22487279
15	Achalpur	Achalpur	Asadpur-Wadgaon Khu.- Savali Bu.	Shahapur & 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	1.01	1781	1068551

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16		Achalpur	Yesurna - Nimbhari	Yesurna & Nimbhari	Sapan	Yesurna - 493 to 499, Nimbhari 9	505	20	0.5	1.01	1784	1070671
Total										2.02	3565.37	2139223
17	Dhaman gaon Railway	Dhamanga on Railway	Borgaon Nistane	Borgaon Nistane	Wardha	71, 72	350	30	1	1.05	3710	2226148
18		Dhamanga on Railway	Gokulsara 1	Gokulsara	Wardha	9,10	340	40	1	1.36	4806	2883392
19		Dhamanga on Railway	Gokulsara 2	Gokulsara	Wardha	15,16	350	30	1	1.05	3710	2226148
20		Dhamanga on Railway	Dighi Mahalle	Dighi Mahalle	Wardha	3,4	400	30	1	1.20	4240	2544170

