

**EXECUTIVE SUMMARY ON
DRAFT ENVIRONMENTAL MANAGEMENT PLAN**

FOR

SAND GHATS

AT

WARDHA DISTRICT

STATE – MAHARASHTRA

FOR PUBLIC HEARING FOR 42 SAND GHATS

PROPONENT

DISTRICT MINING OFFICER, COLLECTOR OFFICE, WARDHA

CONSULTANT

ENVIRO TECHNO CONSULT PRIVATE LIMITED

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

APRIL 2025

Introduction :

District Collector, Wardha intends to auction sand ghats and appointed District Mining Officer Wardha as project proponent as per sand mining guidelines dated 16.02.2024 or amendments thereof. Total 42 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 Sand ghat	Name of Village	Name of Taluka	Name of River	Nearest Survey No.	Length in m	Breadth in m	Approved Depth in m	Total Depth in m.	Area in Ha	For Excavation 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.
1	Salfal-2	Salfal	Arvi	Wardha River	18,17/1/A, 16, 15, 14	700	50	0.5	2.50	3.50	6184	1381	4m-6m	58	24	140	1381	2	1702750
2	Saykheda	Wadgaon Pande	Arvi	Wardha River	24,25,26,27,28,29,31	800	30	1.0	3.00	2.40	8481	2289	4m-6m	68	33	160	2289	2	2518250
3	Dighi-wadgaon-2	Wadgaon Pande	Arvi	Wardha River	Dighi-112, 113, Wadgaon-124/4, 125, 126, 132	500	30	0.5	2.50	1.50	2650	512	4m-6m	28	10	100	512	2	939000
4	Takali Chana -1	Takali Chana	Deoli	Yashoda River	14, 11, 34	350	35	0.4	2.40	1.23	1731	2000	4m-6m	28	7	70	2000	2	2123500
5	Sonegaon Bai-2	Sonegaon Bai	Deoli	Yashoda River	103, 105, 80, 79, 106, 107, 126, 127, 128, 129	500	24	0.5	2.50	1.20	2120	700	4m-6m	28	8	100	700	2	1094000
6	Tambha - 1	Tambha	Deoli	Wardha River	36,37,45,46,47,48,57,58	800	50	1.0	3.00	4.00	14134	788	4m-6m		54	160	788	2	1448000
7	Tambha - 2	Tambha	Deoli	Wardha River	414, 422, 423, 424, 425, 427	500	25	1.0	3.00	1.25	4417	1000	4m-6m	38	17	100	1000	2	1408500
8	Hiwara ka-1	Hiwara ka	Deoli	Wardha River	27, 28, 29, 30, 31, 32	500	30	1.0	3.00	1.50	5300	1389	4m-6m	48	20	100	1389	2	1746750
9	Babulgaon bo	Babulgaon bobde	Deoli	Wardha River	170, 1, 2, 4, 5 +Gaathan	350	30	0.7	2.70	1.05	2597	2310	4m-6m	38	10	70	2310	2	2437500
10	Nimgavhan	nimgavhan	Deoli	Wardha River	1, 97	500	30	0.5	2.50	1.50	2650	2419	4m-6m	38	10	100	2419	2	2559250
11	Wagholi	Wagholi	Deoli	Wardha River	74, 75, 76, 2	500	35	0.3	2.30	1.75	1855	1200	4m-6m	28	7	100	1200	2	1538500
12	Aapti-1	Aapti	Deoli	Wardha River	6	350	30	0.5	2.50	1.05	1855	926	4m-6m	28	7	70	926	2	1243000
13	Aapti-2	Aapti	Deoli	Wardha River	20,22	350	32	0.5	2.50	1.12	1979	1263	4m-6m	28	8	70	1263	2	1551250
14	Sawangi Yende	Sawangi Yende	Deoli	Wardha River	21, 22 ,47,23	400	30	0.7	2.70	1.20	2968	1485	4m-6m	38	11	80	1485	2	1779250
15	Chikmoh-2	Chikmoh	Hinganghat	Wana River	130, 131, 228, 149, 150, 152, 153.	450	40	0.8	2.80	1.80	5088	1069	4m-6m	48	20	90	1069	2	1496750
16	Tembha-2	Tembha	Hinganghat	Wana River	158, 160, 161, 162, 188, 187	400	30	0.8	2.80	1.20	3392	1566	4m-6m	38	13	80	1566	2	1851000
17	Nandra (Rith)-2	Nandra	Hinganghat	Wana River	72, 71, 70, 69, 68, 65	400	35	0.8	2.80	1.40	3958	1600	4m-6m	38	15	80	1600	2	1837500
18	Sawangi (Rith)-2	Sawangi (Rith)	Hinganghat	Wardha River	84, 95	350	30	0.7	2.70	1.05	2597	838	4m-6m	38	10	70	838	2	1253500
19	Kuran (Rith)-2	Kuran (Rith)	Hinganghat	Wardha River	68/2, 68/1, 67/1/B, 69	270	40	0.6	2.60	1.08	2290	900	4m-6m	38	9	54	900	2	1256500
20	Divri-pipri-2	Divri-pipri	Hinganghat	Wana River	9, 156, 155, 154, 153, 151, 150, 149	500	60	0.6	2.60	3.00	6360	1330	4m-6m	58	24	100	1330	2	1724500

Executive summary Wardha Sand Ghats

21	Sati-1	Sati	Hinganghat	Wardha River	95/3, 95/2, 95/5, 95/6	200	50	0.6	2.60	1.00	2120	2128	4m-6m	38	8	40	2128	2	2250000
22	Dorla-2	Dorla	Hinganghat	Wardha River	89, 91/A, 91/B, 92, 93, 94, 95	350	30	0.7	2.70	1.05	2597	2426	4m-6m	38	10	70	2426	2	2474500
23	Dhochi-2	Dhochi	Hinganghat	Wardha River	135, 136, 168, 169/1, 170/1	290	40	0.7	2.70	1.16	2869	2725	4m-6m	38	11	58	2725	2	2698250
24	Shekapur Bai-2	Shekapur Bai	Hinganghat	Wana River	210, 206, 205, 204, 203, 202, 201	400	40	0.7	2.70	1.60	3958	2585	4m-6m	38	15	80	2585	2	2651250
25	Yeli-2	Yeli	Hinganghat	Wana River	73/1, 73/2, 74/1, 74/2, 75/1, 75/2, 76/1, 76/2, 77, 81, 82, 92/1, 92/2, 93/1, 93/2,	700	35	0.5	2.50	2.45	4329	2889	4m-6m	48	17	140	2889	2	2770250
26	Sonegaon (Dh)	Sonegaon (Dh)	Hinganghat	Wana River	58, 59/1, 59/2 12,11,5,4	400	40	0.5	2.50	1.60	2827	1320	4m-6m	28	11	80	1320	2	1590500
27	Pardi Nagaji	Pardi Nagaji	Hinganghat	Wana River	82, 84, 85, 97, 98, 111, 113	400	25	0.9	2.90	1.00	3180	2800	4m-6m	38	12	80	2800	2	2871000
28	Mandgaon -1	Mandgaon	Samudrapur	Wana River	219, 220, 221	500	50	0.5	2.50	2.50	4417	3000	4m-6m	48	17	100	3000	2	3058500
29	Mandgaon -4 + khuni	Mandgaon	Samudrapur	Dham River	mandgaon 140/1/A, 140/1/B, 140/2, 141, 142 khuni- 19/1, 19/2	425	25	0.4	2.40	1.06	1502	1800	4m-6m	28	6	85	1800	2	2025500
30	Shivni-1	Shivni	Samudrapur	Wana River	128, 69, 68	420	25	0.8	2.80	1.05	2968	2157	4m-6m	28	11	84	2157	2	2320250
31	Sewa-2	Sewa	Samudrapur	Wana River	85, 89, 87, 88/2	366	46	0.8	2.80	1.68	4759	924	4m-6m	48	18	73.2	924	2	1323600
32	Mangaon	Mangaon	Samudrapur	Wana River	7, 8, 10	300	35	1.0	3.00	1.05	3710	3260	4m-6m	38	14	60	3260	2	3047000
33	Menkhat	Menkhat	Samudrapur	Wana River	45, 46	350	35	0.7	2.70	1.23	3030	1836	4m-6m	28	12	70	1836	2	2003000
34	Waksur	Waksur	Samudrapur	Wana River	101/1, 95, 102, 117/1, 118, 119, 120, 121	500	30	1.0	3.00	1.50	5300	854	4m-6m	58	20	100	854	2	1325500
35	karda	karda	Samudrapur	Wana River	28,27/1, 27/2, 21	325	35	1.0	3.00	1.14	4019	2101	4m-6m	38	15	65	2101	2	2230750
36	Tekoda	Tekoda	Ashti	wardha river	1, 228, 225, 224, 223, 222, 221	565	18	0.5	2.50	1.02	1797	403	4m-6m	28	7	113	403	2	852250
37	Ismilepur	Ismilepur	Ashti	Wardha River	13, 15	570	19	0.5	2.50	1.08	1913	1382	4m-6m	28	7	114	1382	2	1632000
38	Godawari/ Godri	Godawari	Ashti	Wardha River	110, 111, 109, 108, 107, 105/1, 105/2, 104, 113, 103	580	18	0.5	2.50	1.04	1845	328	4m-6m	28	7	116	328	2	767500
39	Wagholi	Wagholi	Ashti	Wardha River	2, 5	560	19	0.5	2.50	1.06	1880	456	4m-6m	28	7	112	456	2	861500
40	Antora	Antora	Ashti	Wardha River	270, 34, 35	500	30	0.5	2.5	1.50	2650	695	4m-6m	28	10	100	695	2	1071250
41	Dalpatpur	Dalpatpur	Ashti	Wardha River	2, 3, 132	500	25	0.5	2.5	1.25	2208	681	4m-6m	28	8	100	681	2	1049750
42	Chincholi	Chincholi	Ashti	Wardha River	4, 5, 10, 11, 12	500	25	0.5	2.5	1.25	2208	1782	4m-6m	28	8	100	1782	2	1905500

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

Name & Address of Allottee	District Mining Officer Wardha/ Successful Bidder Wardha District, Wardha
Status of the lease	New, Individual/ Project Proponent/Successful Bidder for auction of sand ghat by District Collector Wardha.
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 16.02.2024 and amendments thereof.
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 28-48 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">• 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, tembhurni 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 2024 and amendments thereof.