

**EXECUTIVE SUMMARY ON
DRAFT ENVIRONMENTAL MANAGEMENT PLAN**

FOR

SAND GHATS

AT

WARDHA DISTRICT

STATE – MAHARASHTRA

FOR PUBLIC HEARING FOR 39 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**

NOVEMBER 2021

Introduction :

District Collector, Wardha intends to auction sand ghats and appointed District Mining Officer Wardha as project proponent as per sand mining guidelines dated 03.09.2019. Total 39 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 Sand Ghat	Name of Village	Nearest Gut No.	Name of River/ Stream	Dimensions of Sand Ghat in cum.	Area of Sand Ghat in Ha	Sand Proposed for scooping in Brass	Length of Approach Road	Width of Approach	No. of Workers	No. of Tractors	No of Trees along Bank and Transport road	Water Requirement in cum/day	EMP cost in Rs.
1	Devli	Apti-1	Apti	6	Wardha	0.50 278 38	1.06	1866	360	3-6m	28	7	499	1.56	7.65
2	Devli	Tamba-1	Tamba	36, 37, 45, 46, 47, 48, 57, 58	Wardha	0.50 350 35	1.23	2164	730	3-6m	28	8	905	1.56	10.4
3	Devli	Hiwra Ka	Hiwra Ka	27 ते 32 पर्यंत	Wardha	0.70 500 30	1.50	3710	500	3-6m	28	14	750	1.56	9.77
4	Devli	Takli Ch-1	Takli Ch	14, 11, 29, 34	Yashoda	0.40 350 35	1.23	1731	1000	3-6m	28	7	1175	1.56	12.51
5	Devli	Sonegaon Bai	Sonegaon Bai	103, 105, 80, 79, 106, 107, 126, 127, 128, 129	Yashoda	0.50 500 24	1.20	2120	800	3-6m	28	8	1050	1.56	11.44
6	Devli	Takli Da.	Takli Da.	31, 32, 33, 34, 35, 36	Yashoda	0.50 320 32	1.02	1809	860	3-6m	28	7	1020	1.56	11.23
7	Arvi	Dighi-Wadgaon	Dighi-Wadgaon	दि. 112, 113, तसगाव-12/4, 125, 126, 132	Wardha	0.50 500 30	1.50	2650	1500	3-6m	33	10	1750	1.66	16.45
8	Arvi	Saikheda	Saikheda	24, 25, 26, 27, 28, 29	Wardha	0.50 800 25	2.00	3534	670	3-6m	33	14	870	1.66	10.61
9	Arvi	Salfal	Salfal	16, 15, 14, 9/1, 8, 7	Wardha	0.40 500 20	1.00	1413	1000	3-6m	28	6	250	1.56	12.83
10	Samudrapur	Shivni-1	Shivni	130, 361, 129, 128, 69, 68	Vana	0.40 420 25	1.05	1484	250	3-6m	28	8	460	1.56	7.29
11	Samudrapur	Shivni-2	Shivni	22, 23	Vana	0.40 500 35	1.75	2473	250	3-6m	28	10	500	1.56	7.6
12	Samudrapur	Sewa-2	Sewa	85, 86, 87, 88/2	Vana	0.70 460 30	1.38	3413	370	3-6m	38	13	600	1.76	8.6
13	Samudrapur	Chakur	Chakur	15/1, 15/2, 13/1, 13/2, 8, 6, 200, 199, 198, 197	Vana	0.45 500 25	1.25	1988	530	3-6m	28	8	655	1.56	8.92
14	Samudrapur	Mangaon	Mangaon	6, 7, 8, 10 शेत:	Vana	0.35 400 45	1.80	2226	330	3-6m	33	8	530	1.66	7.95
15	Samudrapur	Menkhat	Menkhat	45, 46	Vana	0.45 350 35	1.23	1948	490	3-6m	28	7	665	1.56	8.41
16	Samudrapur	Mandgaon-1	Mandgaon	219, 220	Vana	0.50 500 50	2.50	4417	1550	3-6m	33	16	1675	1.66	10.6
17	Samudrapur	Mandgaon-2	Mandgaon	285, 286, 287, 288, 298, 344, 345, 346, 347, 861, 348 शेत:	Vana	0.40 600 50	3.00	4240	630	3-6m	33	16	300	1.66	11.04
18	Samudrapur	Umra-Aurangpur R	Umra-Aurangpur R	शेत- 13, 14, शेत- 1, 5, 7, 9, 11	Vana	0.50 505 25	1.26	2231	720	3-6m	33	9	845	1.66	10.31
19	Samudrapur	Pardi	Pardi	217	Vana	1.00 560 24	1.34	4749	700	3-6m	33	18	980	1.66	11.44
20	Samudrapur	Aurangpur R+ Umra	Aurangpur R+ Umra	शेत- 259, 258, शेत- 18, 21, 22	Vana	0.50 490 25	1.23	2164	530	3-6m	33	9	780	1.66	9.6
21	Samudrapur	Barbadi	Barbadi	116/2/3, 116/2/4, 147, 148, 149	Vana	0.40 400 25	1.00	1413	2200	3-6m	28	6	2200	1.56	20.88
22	Samudrapur	Waksur	Waksur	101/1, 95, 102, 117, 118, 119	Vana	1.00 500 30	1.50	5300	340	3-6m	33	20	590	1.66	8.98
23	Hinganghat	Borgaon Da	Borgaon Da	14, 15, 16, 18, 19, 20, 238	Vana	0.80 400 25	1.00	2827	560	3-6m	28	11	760	1.56	9.57
24	Hinganghat	Chikmoh	Chikmoh	109, 129, 130, 131, 228, 149, 150, 152, 153.	Vana	0.50 900 40	3.60	6360	1000	3-6m	43	25	1450	1.86	13.27

25	Hinganghat	Tembha Pardi	Tembha Pardi	ढँअ 154, 155, 156, 160, 161, 162, 188, 187, 189, 198 पारङी 82, 83, 85, 97, 98, 111, 113	Vana	0.50	800	50	4.00	7067	1000	3-6m	43	27	1400	1.86	13.13
26	Hinganghat	Chincholi Bu	Chincholi Bu	48/1, 48/2, 48/3	Vana	0.50	400	35	1.40	2473	380	3-6m	28	10	580	1.56	8.26
27	Hinganghat	Khardi Bhardi	Khardi Bhardi	अरङी - 1, 2, 3, 12/3, अरङी - 2, 3, 4, 5, 6, 7	Vana	0.50	800	35	2.80	4947	550	3-6m	38	19	950	1.76	11.14
28	Hinganghat	Kajalsara	Kajalsara	270, 273, 274, 269	Pothra	0.50	420	25	1.05	1855	300	3-6m	28	7	510	1.56	7.68
29	Hinganghat	Ganeshpur Borkhed	Ganeshpur Borkhed	गणेशपुर-48, 49, 52, 54, 56, 57, बोरखेडी-23, 24, 28, 29, 30, 31	Vana	0.50	900	20	1.80	3180	600	3-6m	33	12		1.66	10.72
30	Hinganghat	Bhagwa-1	Bhagwa	13, 14, 15 अंशतः	Yashoda	0.50	350	30	1.05	1855	900	3-6m	28	7	1050	1.56	11.71
31	Hinganghat	Bhagwa-2	Bhagwa	121, 122, 123/2 अंशतः	Yashoda	0.50	350	30	1.05	1855	900	3-6m	28	7	1075	1.56	11.71
32	Hinganghat	Shekapur Bai	Shekapur Bai	200, 209, 210	Vana	0.60	400	40	1.60	3392	850	3-6m	33	13	1030	1.66	11.67
33	Hinganghat	Yell	Yell	73, 74, 75, 76, 77, 81, 82, 92, 93, 94	Vana	0.70	700	35	2.45	6060	800	3-6m	33	23	1150	1.66	12.76
34	Hinganghat	Nandra Rith	Nandra Rith	81, 82, 83, 72, 71, 70, 69, 68, 65, 64, 60, 59, 58/3, 58/ब, 57/3, 57/ब, 56, 55	Vana	0.55	900	35	3.15	6122	1000	3-6m	43	24	1450	1.86	14.82
35	Hinganghat	Sawangi Rith	Sawangi Rith	84, 95	Wardha	0.50	350	30	1.05	1855	730	3-6m	28	7	905	1.56	10.4
36	Hinganghat	Dhochi	Dhochi	125/3, 1, 127, 128, 135, 172/1, 173/1, 174/3, 130/1, 129/1, 136, 168, 169/1, 170/1	Wardha	0.50	290	40	1.16	2049	135	3-6m	28	8	280	1.56	6.16
37	Hinganghat	Hiwara	Hiwara	18, 20	Wardha	0.45	500	50	2.50	3975	590	3-6m	38	15	840	1.76	10.3
38	Hinganghat	Dhiwari Pimpri	Dhiwari Pimpri	9, 156, 155, 154, 153, 151, 10	Vana	0.40	400	40	1.60	2261	430	3-6m	28	9	630	1.56	8.65
39	Hinganghat	Sonegaon Dho	Sonegaon Dho	50, 58, 59/1, 59/2	Vana	0.40	548	45	2.47	3486	280	3-6m	38	13	554	1.76	8.19

34	Hinganghat	Nandra Rith	Nandra Rith	81, 82, 83, 72, 71, 70, 69, 68, 65, 64, 60, 59, 58/3f, 58/4f, 57/3f, 57/4f, 56, 55	Vana	0.55	900	35	3.15	6122	1000	3-6m	43	24	1450	1.86	14.82
35	Hinganghat	Sawangi Rith	Sawangi Rith	84, 95	Wardha	0.50	350	30	1.05	1855	730	3-6m	28	7	905	1.56	10.4
36	Hinganghat	Dhochi	Dhochi	125/3f/1, 127, 128, 135, 172/1, 173/1, 174/3f, 130/1, 129/1, 136, 168, 169/1, 170/1	Wardha	0.50	290	40	1.16	2049	135	3-6m	28	8	280	1.56	6.16
37	Hinganghat	Hiwara	Hiwara	18, 20	Wardha	0.45	500	50	2.50	3975	590	3-6m	38	15	840	1.76	10.3
38	Hinganghat	Dhiwari Pimpri	Dhiwari Pimpri	9, 156, 155, 154, 153, 151, 10	Vana	0.40	400	40	1.60	2261	430	3-6m	28	9	630	1.56	8.65
39	Hinganghat	Sonegaon Dho	Sonegaon Dho	50, 58, 59/1, 59/2	Vana	0.40	548	45	2.47	3486	280	3-6m	38	13	554	1.76	8.19

● **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 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.

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

Executive summary Wardha 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">• 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, Banyan 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 2019.