

**EXECUTIVE SUMMARY ON
DRAFT ENVIRONMENTAL MANAGEMENT PLAN**

FOR

SAND GHATS

AT

WARDHA DISTRICT

STATE – MAHARASHTRA

FOR PUBLIC HEARING FOR 37 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 2020

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 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 Sand Ghat	Name of Village	Nearest Gut No.	Name of River/ Stream	Dimensions of Sand Ghat in cum.	Sand Proposed for scooping 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	Ashti	Chincholi	Chincholi	4,5,10,11,12	Wardha	120mx35mx0.50m	742	570m	3m	28	2	300	228	1.860m ³ /day	635000
2	Ashti	Ismailpur	Ismailpur	111,110,109,108,107,105/1,105/2,104,113,103	Wardha	347mx19mx0.50m	1165	1000m	3m	28	4	70	400	1.860m ³ /day	741000
3	Ashti	Nawabpur	Nawabpur	2,3,5	Wardha	150mx30mx0.50m	795	570m	3m	28	15	30	228	1.860m ³ /day	711500
4	Arvi	Salfal	Salfal	7,8,9,14,15,16,17/1A,18	Wardha	400mx20mx0.50m	1130	1000m	3m	33	15	80	400	2.860m ³ /day	892500
5	Arvi	Saikheda	Saikheda	24,25,26,27,28,29	Wardha	900mx30mx0.50m	4770	670m	3m	33	15	180	270	2.860m ³ /day	847500
6	Arvi	Dighi & Wadgaon	Dighi & Wadgaon	Dighi-112.113 Wadgaon-124,125,126,132	Wardha	600mx30mx0.50m	3180	1500m	3m	33	15	120	600	2.860m ³ /day	1032500
7	Deoli	Apti-1	Apti-1	6	Wardha	278mx38mx0.40m	1493	360m	3m	28	10	60	310	1.860m ³ /day	730000
8	Deoli	Tambha	Tambha	36,37,45,46,47,48,57,58	Wardha	350mx35mx0.50m	2164	730m	3m	28	10	70	300	1.860m ³ /day	695000
9	Deoli	Hiwra (Ka.)	Hiwra (Ka.)	23to32	Wardha	500mx30mx0.50m	2650	500m	3m	28	10	100	200	1.860m ³ /day	670000
10	Deoli	Takli Chana	Takli Chana	14,11,297,34	Yashoda	350mx35mx 0.40 m	1731	1000m	3m	28	4	70	400	1.860m ³ /day	832000
11	Deoli	Sonegaon Bai	Sonegaon Bai	103,105,80,79,106,107,126,127,128,129	Yashoda	500mx24mx0.50m	2120	80m	3m	28	5	100	200	1.860m ³ /day	692500
12	Deoli	Takli Darne	Takli Darne	31,32,33,34,35,36	Yashoda	312mx32mx0.50m	1764	860m	3m	28	4	65	350	1.860m ³ /day	814500
13	Deoli	Borgaon A	Borgaon A	233,240,242,37,41	Yashoda	130mx14mx0.30m	193	780m	3m	28	1	30	300	1.860m ³ /day	481000
14	Hinganghat	Junona & Borgaon Da	Junona & Borgaon Da	Junona-29,32,33,36,40part and Borgaon 14,15,16,18,19,20,238	Wana	1400mx35mx0.80m	13852	2000m	3m	48	27	280	800	3.860m ³ /day	1408500
15	Hinganghat	Chikmoh	Chikmoh	107,108,109,129,130,131,228,149,150,152,153	Wana	900mx40mx1.0m	12721	1000m	3m	43	24	180	400	3.860m ³ /day	1117000
16	Hinganghat	Tembha+Pardi	Tembha+Pardi	67	Wana	800mx60mx0.70m	11873	570m	3m	48	23	160	230	2.960m ³ /day	985500
17	Hinganghat	Ghatsawli & Chincholi Bu	Ghatsawli & Chincholi Bu	Ghatsawli-352(Forest) and Chincholi - 48/1,48/2,48/3	Wana	1400mx35mx0.80m	13852	720m	3m	48	27	280	288	3.860m ³ /day	1052500
18	Hinganghat	Khardi+Bardi	Khardi+Bardi	Kardi-1,2,3,12/3 and Bardi 2,3,4,5,6,7	Wana	800mx35mx0.80m	7915	690m	3m	38	15	160	280	2.760m ³ /day	871000
19	Hinganghat	Kajalsala	Kajalsala	273,274,270,269	Pothra	454mx30mx0.50m	2406	300m	3m	28	5	90	200	1.860m ³ /day	627500

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20	Hinganghat	Ganeshpur & Borkhedi	Ganeshpur & Borkhedi	Ganeshpur-48,49,52,54,56,57 Borkhedi-23,24,28,29,30,31	Wana	900mx20mx0.50m	3180	600m	3m	33	9	180	240	1.860m ³ /day	739500
21	Hinganghat	Bhagwa - 2	Bhagwa - 2	121,122,118	Yashoda	310mx20mx0.50m	1095	900m	3m	28	3	60	360	1.860m ³ /day	654000
22	Hinganghat	Bhagwa - 1	Bhagwa - 1	14,15,13part	Yashoda	350mx20mx0.50m	1237	720m	3m	28	4	70	290	1.860m ³ /day	631000
23	Hinganghat	Yeli	Yeli	73/1,73/2,74/1,74/2,75/1,75/2,76/1,76/2,77,81,82,92/1,92/2,93/1,93/2,94/1,94/2	Wana	700mx35mx0.50m	4329	800m	3m	33	9	140	320	1.860m ³ /day	759500
24	Hinganghat	Shekapur Ba.	Shekapur Ba.	210,206,205,204,203,202,201	Wana	400mx40mx0.70m	3958	830m	3m	33	8	80	330	1.860m ³ /day	779000
25	Hinganghat	Kuran Rith	Kuran Rith	68/2,68/1,67/1B,69	Wardha	290mx 40mx0.50m	2049	940m	3m	33	4	60	380	1.660m ³ /day	780000
26	Hinganghat	Nandra (Rith)	Nandra (Rith)	81,82,83,72,71,70,69,68,65,64,60,59,58/A,58/B,57/A,57/B,56,55	Wana	900mx35mx0.90m	10018	1000M	3M	43	20	180	400	2.860m ³ /day	960000
27	Samudrapur	Khuni, Vandli & Seva2	Khuni, Vandli & Seva2	125,124,74,75,85,86,87,88/2	Wana	1150mx25mx0.80m	8127	440M	3M	33	15	230	175	2.860m ³ /day	840000
28	Samudrapur	Mandgaon-1	Mandgaon-1	219,220	Wana	500mx50mx0.50m	4417	1550m	3m	33	9	100	460	2.860m ³ /day	869500
29	Samudrapur	Mandgaon-2	Mandgaon-2	286,287,288,298,344,345,861,348part	Wana	600mx50mx0.50m	5300	620m	3m	33	10	120	250	2.860m ³ /day	730000
30	Samudrapur	Mangaon	Mangaon	7,8,10	Wana	400mx45mx0.50m	3180	330m	3m	33	6	80	130	1.860m ³ /day	583000
31	Samudrapur	Barbadi	Barbadi	116/2A,147,148 Part	Wana	600mx25mx0.50m	2650	610 m	3m	33	5	120	250	1.860m ³ /day	625500
32	Samudrapur	Waksur	Waksur	101/1,95,102,117/1,118,119	Wana	700mx30mx0.50m	3710	340m	3m	33	8	140	140	1.860m ³ /day	639000
33	Samudrapur	Khuni	Khuni	17,19/1,20	Wana	650mx30mx0.50m	3445	550m	3m	33	7	130	220	1.860m ³ /day	678500
34	Samudrapur	Umra & Aurangpur(Rith)	Umra & Aurangpur(Rith)	Aurangpur- 1/2,5,7 and Umra-18,16,14	Wana	450mx65mx0.50m	5167	720m	3m	33	10	90	300	1.860m ³ /day	780000
35	Samudrapur	Aurangpu(Rith) &Umra	Aurangpu(Rith) &Umra	Aurangpur- 18,21,22 and Umra-258/1,258/2,259	Wana	1250mx20mx0.70m	6184	530M	3m	33	12	250	210	1.860m ³ /day	826000
36	Samudrapur	Chakur	Chakur	15/1,15/2,13/1,13/2,8,6,200,199,198,197	Wana	600mx25mx0.50m	2650	530m	3m	28	5	129	210	1.860m ³ /day	637500
37	Samudrapur	Pardi	Pardi	217 Part	Wana	750mx30mx0.50m	3975	700m	3m	33m	8	150	280	2.860m ³ /day	754000

● **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.

- 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.

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- 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 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.