

**EXECUTIVE SUMMARY ON
DRAFT ENVIRONMENTAL MANAGEMENT PLAN**

FOR

SAND GHATS

AT

YAVATMAL DISTRICT

STATE – MAHARASHTRA

FOR PUBLIC HEARING FOR 34 SAND GHATS

PROPONENT

DISTRICT MINING OFFICER, COLLECTOR OFFICE, YAVATMAL

CONSULTANT

ENVIRO TECHNO CONSULT PRIVATE LIMITED

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

MAY 2021

Introduction :

District Collector, Yavatmal intends to auction sand ghats and appointed District Mining Officer Yavatmal as project proponent as per sand mining guidelines dated 03.09.2019. Total 34 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 Gut No.	Area of sand Ghat in Ha.	Dimensions of sand ghat	Sand Proposed for scooping in Brass	Length of Approach Road in m.	Width of Approach 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.
1	Sakur 1	Sakur	Yavatmal	Adan	10 to 15	1.05	350mx30mx0.50m	1855	702	6	38	7	175	702	1.76	10.22
2	Bori Gosavi 1	Bori Gosavi	Yavatmal	Adan	32,36,39,44,45	1.5	1000mx15mx0.5m	2650	1063	6	38	11	500	1063	1.76	14.59
3	Saujana	Saujana	Babhulgaon	Wardha	6, 9 to13	1.57	525mx30mx0.7m	3896	1286	6	33	15	262	1286	1.66	15.28
4	Nandesawangi	Nandesawangi	Babhulgaon	Wardha	1 to 4	1.35	450mx30mx0.5m	2385	1132	6	28	9	225	1132	1.56	13.59
5	Watkhed Bu.	Watkhed Bu.	Babhulgaon	Bembla	17,01,71,172	1.11	370mx30mx0.5m	1961	1263	6	28	8	74	1263	1.56	14.25
6	Watkhed Kh.	Watkhed Kh.	Babhulgaon	Bembla	29,30,31	1.27	425mx30mx0.5m	2253	485	6	28	9	213	485	1.56	9.05
7	Mukindpur	Mukindpur	Arni	Painganga	2,3,4 & 6	1.32	330mx40mx0.5m	2332	1636	6	28	9	165	1636	1.56	16.82
8	Kawtha Ba	Kawtha Ba	Arni	Painganga	15 to 19,332,324 to 328,321 to 316	2.31	770mx30mx0.6m	4898	839	6	33	19	376	839	1.66	12.93
9	Jalandri	Jalandri	Arni	Adan	11,16,17,18A,19,20,22 to 26	2.21	700mx30mx0.5m	3710	489	6	33	17	350	489	1.66	10.09
10	Ayata	Ayata	Arni	Adan	128,130,142 to146,152,153	2.1	1400mx15mx0.5m	3710	1986	6	33	14	700	1986	1.66	22.32
11	Varha	Varha	Ralegaon	Wardha	1,81,169	1.44	340mx40mx0.5m	2544	740	6	28	10	180	740	1.56	10.06
12	Hirapur-2	Hirapur	Ralegaon	Wardha	16,17	1.05	300mx35mx0.6m	2226	2212	6	28	9	150	2212	1.56	20.09
13	Dharmapur	Dharmapur	Ralegaon	Wardha	3,4,50 to 53	4.5	900mx50mx0.5m	7951	2940	6	38	31	300	2940	1.76	27.93
14	Aurangpur	Aurangpur	Kalamb	Wardha	11/1,11/2	1.35	225mx60mx0.6m	2862	1061	6	28	11	227	1061	1.56	13.21
15	Satefal	Satefal	Kalamb	Wardha	9,10,11	1.25	250mx50mx0.5m	2208	1430	6	28	8	125	1430	1.56	15.12
16	Kalaspur	Kalaspur	Kalamb	Wardha	31,6	1.5	300mx50mx0.5m	2650	579	6	28	10	150	579	1.56	9.4
17	Ratnapur	Ratnapur	Ghatanji	Adan	29,30	1.46	325mx45mx0.6m	3101	786	6	28	12	163	786	1.56	11.02
18	Tadsawli	Tadsawli	Ghatanji	Painganga	95 to 97,100,105,106,113,121,122,126 ,127,128	1.1	275mx40mx0.7m	2721	944	6	28	10	138	944	1.56	11.89
19	Chalgani	Chalgani	Umarkhed	Painganga	2,3,122 to 126	2.7	900mx30mx0.6m	5724	474	6	33	22	450	474	1.66	10.36
20	Unchwadad	Unchwadad	Umarkhed	Painganga	1,4,51,52 adjacent	1.33	665mx20mx0.5m	2350	394	6	33	9	332	394	1.66	12.96
21	Hatla	Hatla	Umarkhed	Painganga	52 & 53	1.06	425mx25mx0.5m	1877	966	6	28	7	113	966	1.56	14.89
22	Karanjkhed	Karanjkhed	Mahagaon	Pus	171,172,173,175	1	400mx25mx0.5m	1767	1414	6	28	7	200	1414	1.56	14.53
23	Thar Khurd	Thar Khurd	Mahagaon	Painganga	13 & 14	1.12	280mx40mx0.6m	2375	1300	6	28	9	140	1300	1.56	10.84
24	Bhosa	Bhosa	Mahagaon	Painganga	156	1	250mx40mx0.5m	1767	800	6	28	7	125	800	1.56	13.82
25	Bhurki-2	Bhurki	Wani	Wardha	18,20,21	4.75	950mx50mx0.6m	10071	1252	6	43	39	475	1252	1.86	19.17
26	Shelu Khurd	Shelu Khurd	Wani	Wardha	20,21,15,18	1.35	450mx30m0.5m	2385	1486	6	28	9	225	1486	1.56	11.55

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27	Ijasan	Ijasan	Wani	Vidarbha	22,21,10,9,11,8	1	1000mx10m0.6m	2120	881	6	28	8	500	881	1.56	12.89
28	Punvat-1	Punvat	Wani	Nirguda	599,600,602,603,616,617,618	1.02	410mx25m0.5m	1811	12166	6	28	7	205	12166	1.56	14.32
29	Belora	Belora	Wani	Wardha	74-76,81,86,87,93,94,96,98	2.5	500mx50m0.6m	5300	1341	6	33	20	250	1341	1.66	15.88
30	Apti Dakshin	Apti Dakshin	Maregaon	Wardha	174,175,179 to 181,13 to 15	1.05	300mx35mx0.5m	1855	1195	6	28	7	150	1195	1.56	13.55
31	Kosara-2	Kosara	Maregaon	Wardha	38, June gaathan,39	1.28	320mx40mx0.5m	2261	601	6	28	9	160	601	1.56	9.55
32	Kamalveli	Kamalveli	Zarijamni	Painganga	58,69,70,71,83,84	2.7	900mx30mx0.6m	5724	1846	6	33	22	300	1846	1.66	19.78
33	Hirapur	Hirapur	Zarijamni	Painganga	248 to 250	4.95	550mx90mx0.6m	10495	978	6	28	40	275	978	1.56	14.47
34	Vatholi	Vatholi	Zarijamni	Painganga	176	4.98	525mx95mx05m	8812	470	6	38	34	262	470	1.76	10.62

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

Name & Address of Allottee	District Mining Officer Yavatmal / Successful Bidder Yavatmal District, Yavatmal
Status of the lease	New, Individual/ Project Proponent/Succesful Bidder for auction of sand ghat by District Collector Yavatmal.
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, subabhu, 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.