

**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

/SUCCESSFUL BIDDER

CONSULTANT

ENVIRO TECHNO CONSULT PRIVATE LIMITED

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

SEPTEMBER 2022

Introduction :

District Collector, Yavatmal intends to auction sand ghats and appointed District Mining Officer Yavatmal as project proponent on behalf of successful bidder as per sand mining guidelines dated 28.01.2022. Total 35 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	Village/Sand Ghat	Name of River	सर्वे नं/ गट नं	रेती उखन्न क्षेत्राबाबतचा तपशील				Approved Sand in Brss	Road Length (m)	Haulage Width (m)	No. of Labour required	No. Tractor	Pinatation along Bank	Plantation along Haul Road	Water in cum/day	EMP Cost in Rs.
					Length(m)	Width(m)	Approved Depth (m)	Area in Ha.									
1	Yavatmal	Sakur	Adan	7 to 12	350.00	30.00	0.50	1.05	1855	751	6.00	28	8	175	750	1.56	1009200
2	Babhulgaon	Bhaiyyapur	Bembala	17-18	650.00	30.00	0.50	1.95	3445	2212	6.00	38	14	325	2210	1.76	2201900
3	Babhulgaon	Watkhed Khu	Bembala	29 to 31	350.00	30.00	0.50	1.05	1855	2224	6.00	28	8	175	2220	1.56	2091300
4	Babhulgaon	Saujana	Wardha	6,9 to 13	525.00	30.00	0.70	1.57	3896	1029	6.00	38	16	250	1030	1.76	1353800
5	Kalamb	Aurangapur	Wardha	11/1, 11/2	225.00	60.00	0.60	1.35	2862	1783	6.00	28	12	110	1780	1.56	1772600
6	Kalamb	Satephal	Wardha	9,10,11	250.00	50.00	0.50	1.25	2208	1231	6.00	28	9	125	1230	1.56	1378200
7	Arni	Sakur-1	Penganga	159,160,167 to 170	300.00	35.00	0.50	1.05	1855	970	6.00	28	8	150	970	1.56	1203000
8	Arni	Sakur-2	Penganga	116,119,120 to 135	335.00	30.00	0.50	1.00	1775	1647	6.00	28	7	150	1640	1.56	1667900
9	Arni	Kawtha Ba-1	Penganga	15 to 19, 316,321,324, 325,326,327, 328,332	550.00	35.00	0.60	1.93	3401	1065	6.00	38	14	225	1065	1.76	1350000
10	Arni	Ranidhanora-1	Penganga	103,104,105,107/1, 107/2,108	700.00	35.00	0.50	2.45	4328	1661	6.00	38	18	350	1661	1.76	1851700
11	Arni	Ranidhanora-2	Penganga	17,18,21,24	600.00	40.00	0.50	2.40	4240	1385	6.00	38	17	300	1385	1.76	1628000
12	Arni	Jalandri	Adan	4,5,10,11	620.00	30.00	0.50	1.86	3286	1805	6.00	38	13	310	1800	1.76	1902500
13	Arni	Ayata	Adan	128,130,142,143	500.00	30.00	0.50	1.50	2650	1570	6.00	28	11	250	1570	1.56	1689500
14	Darvha	Karmala	Adan	59 to 66,68, 70,71,76	600.00	20.00	0.50	1.20	2120	2314	6.00	28	9	300	2310	1.56	2197300
15	Darvha	Sawangi	Adan	81,82,86,87, 88,91,92,95, 96,97	750.00	15.00	0.50	1.13	1987	1060	6.00	28	8	350	1060	1.56	1366000
16	Digras	Lonimendhi	Arunavati	4 to 10,13,14,17 to 19,42 to 48	725.00	14.00	0.50	1.02	1793	896	6.00	28	7	360	900	1.56	1252700
17	Digras	Sawanga Khurd	Arunavati	36 to 38,40 to 45,47	750.00	15.00	0.50	1.13	1987	926	6.00	28	8	375	920	1.56	1281700
18	Ralegaon	Dharnapur	Wardha	50 to 53	600.00	40.00	0.50	2.40	4240	2293	6.00	38	17	300	2290	1.76	1988700
19	Ghatanji	Ratnapur	Adan	29,30	400.00	30.00	0.50	1.20	2120	2154	6.00	28	9	200	2150	1.56	2060300
20	Ghatanji	Dongargaon	Adan	99 to 101,101,102,104	500.00	25.00	0.50	1.25	2208	604	6.00	28	9	250	600	1.56	1000300
21	Ghatanji	Koli Bu	Adan	170	475.00	22.00	0.50	1.05	1846	2090	6.00	28	8	225	2090	1.56	2024500
22	Umarkhed	Chalgani	Penganga	2,3,122,123, 124,125,126	400.00	25.00	0.50	1.00	1766	417	6.00	28	7	200	410	1.56	831900
23	Umarkhed	Gurfali	Penganga	3,5,15 to 20,21	450.00	25.00	0.50	1.13	1987	830	6.00	28	8	225	830	1.56	1142000
24	Umarkhed	Sawaleshwar-1	Penganga	168-170	250.00	40.00	0.50	1.00	1766	179	6.00	28	7	125	179	1.56	631000
25	Umarkhed	Nandala	Penganga	3 to 6,22,23	250.00	40.00	0.50	1.00	1766	1469	6.00	28	7	125	1469	1.56	1534000
26	Umarkhed	Dharchatari	Penganga	2,3,14 to 16	650.00	20.00	0.50	1.03	2296	2550	6.00	28	9	325	2550	1.56	2402000
27	Mahagaon	Januna	Pus	1 to 3	250.00	40.00	0.50	1.00	1766	162	6.00	28	7	125	162	1.56	619000
28	Mahagaon	Bhosa	Penganga	156	350.00	30.00	0.50	1.05	1855	2910	6.00	28	7	175	2910	1.56	2568000
29	Wani	Bhurki-2	Wardha	18,20,21	1000.00	45.00	0.60	4.50	9540	1420	6.00	48	37	500	1420	1.96	1872000

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30	Wani	Sawangji	Nirguda	177,234,240,242.1 to 4.7 to 9,239,243	500.00	25.00	0.50	1.25	2208	1689	6.00	28	8	225	1689	1.56	1756000
31	Wani	Kolgaon	Penganga	26.29 to 33	300.00	70.00	0.60	2.10	4452	2060	6.00	38	17	150	2060	1.76	2025000
32	Wani	Sakhara	Penganga	82 to 86,79,50,60 to 62	450.00	60.00	0.60	1.02	5724	1350	6.00	48	22	225	1350	1.96	1603000
33	Wani	Borgaon Aheri	Wardha	15,16,21,24 to 27	250.00	80.00	0.50	2.00	3534	2910	6.00	38	14	125	2910	1.76	2279000
34	Maregaon	Kosara	Wardha	38 जुने गावठाण, 39	250.00	50.00	0.50	1.25	2208	655	6.00	28	8	125	655	1.56	970000
35	Zari Zamni	Hirapur	Penganga	250	300.00	50.00	0.50	1.50	2650	333	6.00	28	10	150	333	1.56	768000

● **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/Successful 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.

			<ul style="list-style-type: none"> • 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 2022.