

**EXECUTIVE SUMMARY ON
DRAFT ENVIRONMENTAL MANAGEMENT PLAN**

FOR

SAND GHATS

AT

YAVATMAL DISTRICT

STATE – MAHARASHTRA

FOR PUBLIC HEARING FOR 32 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

APRIL 2020

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 32 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 :

Table 1.0 Details of Sand Ghat :

Sr. No.	Taluka	Name of Sand Ghat	Name of Village	Name of River/Stream	Nearest Gut no.	Dimensions of Sand Ghat			Area of sand Ghat in Ha.	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.
						Length	Width	Depth										
1	Yavatmal	Sakur	Sakur	Adan	10 to 15	275	25	0.5	0.68	1215	520	3	28	3	55	104	1.560	598500.00
2	Yavatmal	Bori Gosavi - 1	Bori Gosavi	Adan	32,36,39,44,45	1000	15	0.5	1.5	2650	710	3	28	6	250	142	1.560	688500.00
3	Yavatmal	Bori Gosavi - 2	Bori Gosavi	Adan	37,38,39,40,41	275	20	0.5	0.6	972	150	3	28	2	55	30	1.560	498500.00
4	Babhulgaon	Bhaiyyapur	Bhaiyyapur	Bembla	17,18,	500	36	0.5	1.8	3180	500	3	28	6	100	100	1.560	583000.00
5	Babhulgaon	Watkhed Khu.	Watkhed Khu.	Bembla	29,30,31	425	30	0.2	1.2	901	470	3	28	2	85	94	1.560	545500.00
6	Babhulgaon	Nagargaon	Nagargaon	Bembla	27,28,29	550	30	0.5	1.65	2915	500	3	28	6	100	110	1.560	583000.00
7	Babhulgaon	Watkhed Bu.	Watkhed Bu.	Bembla	170, 171, 172	270	30	0.2	0.81	572	1290	3	28	2	54	258	1.560	606500.00
8	Arni	Sakur-1	Sakur	Painganga	159,160,167, to 170	460	80	0.5	3.68	6502	1300	3	38	13	92	260	1.760	802500.00
9	Arni	Sakur-2	Sakur	Painganga	115, 116, 119, 120, 135	550	65	0.5	3.57	6316	1440	3	38	12	110	288	1.760	835500.00
10	Arni	Mukindpur	Mukindpur	Painganga	2, 3, 4, 6	600	45	0.5	2.7	4770	960	3	33	9	120	192	1.660	675500.00
11	Arni	Ranidhanora -2	Ranidhanora	Painganga	17, 18, 21, 24	975	50	1	4.87	17226	1640	3	53	33	195	328	2.060	1033000.00
12	Ralegaon	Raohini -2	Raohini	Wardha	66	350	75	0.5	2.62	4638	410	3	38	9	70	82	2.760	580500.00
13	Ralegaon	Jagjai	Jagjai	Wardha	143, 144, 145, 147	750	60	0.2	4.5	3180	1200	3	28	6	150	240	1.560	778000.00
14	Kalamb	Aurangpur	Aurangpur	Wardha	11/1,11/2	300	60	0.5	1.8	3180	630	3	28	6	60	126	1.560	606000.00
15	Ghatanji	Ratnapur	Ratnapur	Adan	29, 30	325	45	0.5	1.46	2584	1280	3	28	5	65	256	1.560	758000.00
16	Ghatanji	Koli Bu.	Koli Bu.	Adan	170	150	30	0.2	0.45	318	1970	3	28	1	30	394	1.560	787500.00
17	Ghatanji	Vilayata	Vilayata	Adan	77, 79, 97, 98	575	50	0.5	2.87	5080	270	3	33	10	115	54	1.660	584500.00
18	Ghatanji	Manusdhari	Manusdhari	Adan	121, 122, 123, 124, 125	600	30	0.5	1.8	3180	1370	3	28	6	120	274	1.560	800000.00
19	Zhari jamni	Hirapur-3	Hirapur	Painganga	250, 248, 249	550	90	0.5	4.95	8746	460	3	38	17	110	92	2.760	659500.00
20	Zhari jamni	Watholi	Watholi	Painganga	176	525	95	0.5	4.98	8812	210	3	38	17	105	42	2.760	622000.00
21	Wani	Surjapur	Surjapur	Nirguda	65, 66, 69, 70, 71	470	35	0.2	1.64	1163	580	3	28	3	94	116	1.560	601500.00
22	Wani	Ijasan	Ijasan	Vidharbha	10, 11, 21	300	10	0.2	0.3	212	1270	3	28	1	60	254	0.560	732500.00
23	Wani	Bhurki-1	Bhurki	wardha	162, 172, 1,2,3, 4	700	70	0.5	4.9	8657	370	3	38	17	140	74	2.760	665500.00
24	Maregaon	Apti Dakshin	Apti Dakshin	wardha	174, 175, 179,180, 181,13,14, 15	550	72	0.2	3.96	2799	750	3	28	6	110	150	0.560	643000.00
25	Maregaon	Apti uttar	Apti uttar	wardha	161, 162, 164, 165, 166	500	90	0.5	4.5	7951	640	3	38	15	100	128	2.760	647000.00

Executive summary Yavatmal Sand Ghats

26	Umarkhed	sakhra	sakhra	Painganga	70, 74,75, 76, 77, 86	800	35	0.5	2.8	4947	450	3	33	10	160	90	1.660	625000.00
27	Umarkhed	Chalgani	Chalgani	Painganga	2, 3, 122, 123, 124, 125, 126	900	30	0.5	2.7	4770	520	3	33	9	180	104	1.660	671500.00
28	Umarkhed	Hatla	Hatla	Painganga	47, 48, 49, 52	970	25	0.5	2.42	4285	1240	3	33	8	194	248	1.660	835000.00
29	Umarkhed	Lohara khurd	Lohara khurd	Painganga	5, 61	250	30	0.5	0.75	1325	1180	3	28	6	50	236	1.560	746000.00
30	Mahagaon	Karanjkhed-1	Karanjkhed	Pus	171, 172, 173, 175	600	28	0.2	1.68	1187	670	3	28	3	120	134	1.560	623500.00
31	Mahagaon	Thar Khurd	Thar Khurd	Painganga	13, 14	400	100	0.5	4	7067	470	3	38	14	80	94	1.760	629000.00
32	Mahagaon	Bhosa	Bhosa	Painganga	156	150	65	0.5	0.97	1723	660	3	28	4	30	132	1.560	583000.00

● **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.

Executive summary Yavatmal 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
---	--	--	--

• 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.