

Executive Summary on Environment Management Plan

For

Sand Ghats

At

Bhandara District, State Maharashtra

For

Public Hearing for 18 Sand Ghats

Project Proponent

District Mining Officer, Collector Office, Bhandara

Environment Consultant

Open Arch Design and Enviro Solutions LLP



NABET/EIA/2124/IA0081

openarchdesign@gmail.com

Contact no. :9004778386

1. Introduction:

District Collector, Bhandara intends to auction sand ghats and appointed District Mining Officer, Bhandara as project proponent as per Sand Mining Guidelines dated 03rd September 2019. Total 18 sand ghats are identified by Taluka level Technical committee chaired by Tehsildar and Dy. Engineer, Irrigation and Junior Geologist, Directorate of Geology and Mining, Junior Geologist G.S.DA., representative of Maharashtra Pollution Control Board for scoping of sand by manual method.

List of Sand ghats proposed for auction prior Environment Clearance are as given below in Table no. 1.0:

Table 1.0 Details of Sand Ghats

Sr No	Taluka	Name of Sand Ghat	River	Nearest Gut. No	Dimension of sand Gat in Cum			Area (Ha)	Sand Proposed for scoping in Brass	Width of approach road	Length of approach Road (m)	No. of workers	No. of Tractors	No. of trees along bank & transportati on road	Water requireme nt in cum/ day	EMP cost in Rs.
					L	W	D									
1	Pauni	Yenoda	Waingan ga	100 Part, 41 Part	125	100	1	1.25	4416	3-6 m	547	20	5	399	2.5	647000
2	Pauni	Junona	Waingan ga	402 part, 404, 406, 407, 410, 411/2, 412, 413, 415/2/B Part	200	150	1	3.0	10600	3-6 m	563	20	5	482	3	646200
3	Pauni	Gudega on	Waingan ga	150 part, 190 part, 175, 176, 177, 178, 179, 180	400	100	1	4.0	14134	3-6 m	680	20	5	740	3	526800
4	Pauni	Pauni	Waingan ga	24/2, 25, 35/1 part	300	130	1.5	3.9	20671	3-6 m	630	20	5	615	3	463600
5	Pauni	Shivnal a	Waingan ga	609 part	250	160	1	4.0	14134	3-6 m	535	20	5	518	3	746200
6	Pauni	Walni	Waingan ga	880 Part, 881, 882, 883, 884, 885	250	160	1	4.0	14134	3-6 m	510	20	5	505	2.5	705600
7	Pauni	Itgaon	Waingan ga	8 part, 691 part, 13, 14, 19, 20, 23	300	130	1	3.9	13780	3-6 m	720	20	5	660	2.5	532000
8	Pauni	Kurza	Waingan ga	761 part, 739 part, 761, 760, 759, 758, 745, 744, 743, 742, 741, 740, 739	400	30	1	1.2	4240	3-6 m	910	20	5	855	2.5	527800
9	Tumsar	Bamhni	Waingan ga	371 (Part), 373/1, 373/2	350	100	1	3.5	12367	3-6 m	1100	20	5	900	2.5	686200
10	Tumsar	Tamas	Waingan ga	187 (Part),	400	100	1	4.0	14134	3-6 m	980	20	5	890	3	514800

		wadi	ga	188, 229												
11	Tumsar	Panjra Re	Waingan ga	132/1, 132/2	400	100	1	4.0	14134	3-6 m	580	20	5	690	3	572800
12	Mohadi	Betala South	Waingan ga	1035, 1036, 1037, 1040, 1041, 1042, 1043	340	115	1	3.91	13816	3-6 m	510	20	5	595	3	724600
13	Mohadi	Betala North	Waingan ga	887 (Part), 753 (Part), 754, 884, 886	360	117	1	4.21	14883	3-6 m	750	20	5	735	3	684500
14	Mohadi	Nilaj Bu	Waingan ga	427 (Part), 428, 429/1 (Part)	400	100	1	4	14134	3-6 m	740	20	5	770	2.5	783600
15	Lakhandur	Moharnal	Waingan ga	835 (Part), 836	300	130	1	3.9	13780	3-6 m	410	20	5	505	2.5	648800
16	Lakhandur	Nanded	Waingan ga	210 (Part), 211 (Part)	220	170	1	3.7	13216	3-6 m	865	20	5	653	2.5	746100
17	Lakhandur	Gavralla A	Waingan ga	65/1, 65/2	200	200	1	4.0	14134	3-6 m	850	20	5	625	2	636200
18	Lakhandur	Gavralla B	Waingan ga		400	120	1	4.8	16961	3-6 m	800	20	5	800	3	1017600

2. Status of Statuary Clearances for Sand Ghat

The status of Statuary Clearances for Sand Ghat is given below in Table no .2.0

Table 2.0: Status of Statuary Clearances for Sand Ghat

S. No	Particulars	Details
1	Name and address of Allottee	District Mining Officer, Bhandara/Successful Bidder Bhandara District, Bhandara.
2	Status of lease	New, Individual /Project Proponent/Successful Bidder for auction of sand ghat by District Collector, Bhandara
3	Mineral for which lessee intends to mine	Ordinary Sand for Construction purpose
4	Name and Address of Prospecting Agency	Taluka Level Technical Committee chaired by Tehsildar and Dy. Engineer Irrigation, Junior Geologist, Directorate of Geology and Mining, Junior Geologist G.S.DA., representative of Maharashtra Pollution Control Board.
5	Gram Panchayat NOC	Received from Gramsabha as per Public consultation procedure defined in Sand Mining Guidelines of Maharashtra State dated 03rd September 2019 and 28th January 2022
6	Plan Period for activity	Upto one year from the date of allocation of Sand ghat or upto scoping of Allotted /Permitted quantity mined out which ever is earlier excluding stipulated monsoon period between 10 June to 30 September.

3. Method Of Mining

The mining will be manual opencast mining method of scoping using simple tool like spade/pawada.

- Overburden/Soil Removal
No Overburden/Soil is anticipated
- Scoping of Sand/Loading
The ordinary sand will be loaded manually by labours
- Hauling
Ordinary sand is transported through the tractors/trucks with permissible quantity.
- No machinery will be utilized.
- Period of scoping of sand will be for one year excluding monsoon period of 10th June -30th September or as defined by District Collector.
- About 13 labours per ghat will be required
- The site services will be provided by allottee/Successful Bidder, Office, First Aid and Rest Shelter will be temporarily constructed 20 m away from the bank of river.
- Applied area for sand extraction is covered by dark basalt and which has been derived /transported from basalt of surrounding flat and well tilled area. The sand of the applied area is found to be underlain by dark basalt of river bed.

4. Anticipated Environment Impacts and Management Plan

• Air

A summary of Air Pollution control measures is given below:

Sr. No	Impact Sources	Impact	Control Measures
1.	Transport Road	On Air Quality On Land River bed stability River bed Degradation	<ul style="list-style-type: none">• Compaction, gradation and drainage on both sides & green belt development.• Proper Maintenance• Regular water spraying• Avoding overflowing of tractor and consequent spillage on the roads.• Air Quality will be monitoring at impacted village

Sr. No	Impact Sources	Impact	Control Measures
2.	Truck/Tractor movement	Air quality	<ul style="list-style-type: none"> No overloading of trucks And 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 filing 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 bank and grass along slanting portion of bank.

• **Occupational Health and Services**

A summary of Occupational Health and Services is given below:

Sr. No	Impact Sources	Impact	Control Measures
a.	Occupational Health and Services	Safety of workers and Mining Operations	<ul style="list-style-type: none"> Providing a working environment that is conducted to safety & health The management of occupational safety and health is 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**

Noise control measures will be provided in the proposed crushing and screening plant.

- In addition, personnel working near high noise generating sources will be provided with ear muffs.
- No equipments generating, Noise excluding tractor/trucks 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, loading and unloading sections etc.
- Provision of PPE 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 Forest Department/Revenue Department and only registered vehicles will be used for mineral transport

- b. The PUC certificate for exhaust emissions for all the transport vehicles will be made mandatory.
- c. All the vehicles will be properly maintained to control emissions and noise generation
- d. Drivers of all vehicles will strictly follow traffic rules
- e. Speed of mineral transport vehicles will be regulated.
- f. Overloading of the tractors will not be allowed.
- g. The mineral transporting tractors vehicles will be properly covered with tarpaulin to avoid fugitive emissions
- h. Batch transport system will be adopted in consultation with other sand ghat operations in the area to avoid excess traffic at time on road.
- i. Mineral Transportation will be done only during day time
- j. Strict action will be taken against any driver, who do not comply with traffic rules.

- **Plantation Programme**

1. It is proposed to plant local species during monsoon period along the bank of river and village roads.
2. List of species proposed for greenbelt development plantation are Neem, Peepal, Banyan tree

Successful Bidder/Sand ghat allottee will submit compliance to terms of conditions stipulated in the prior Environment Clearance to the District Mining officer and respective Tehsildars with the expense made on implementation of EMP.

District Mining officer/Respective Tehsildar will monitor the implementation of approved Environment Management Plan along with District Level Committee headed by District Collector as stipulated in Sand Mining rules 2019.