

Executive Summary on Environment Management Plan

For

Sand Ghats

At

Nagpur District, State Maharashtra

For

Public Hearing for 28 Sand Ghats

Project Proponent

District Mining Officer, Collector Office, Nagpur

Environment Consultant

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1. Introduction:

District Collector, Nagpur intends to auction sand ghats and appointed District Mining Officer, Nagpur as project proponent as per Sand Mining Guidelines dated 03rd September 2019. Total 28 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

S. No.	Name of Sand Ghat	Name of Village	Taluka	Nearest Gut. No.	Name of River/ Stream	Dimension of sand Gat in Cum			Are of Sand Ghat in Ha	Sand Proposed for scopin g in Brass	Width of app roc h road	Lengt h of app roc h Road	No. of work ers	No. of Tracto res	No. of trees along bank and trasport ion road	Water require ment in cum/da y	EMP cost in Rs.
1	Ghatrohna	Ghatrohna	Parseo ni	53 (Part),52, 46, 45(Part)	Pench	500	60	0.4	3	4240	3-6 m	360	13	4	501	2.44	4,19,100/-
2	Singardip	Singardip	Parseo ni	80,81 and 82	Kanhan	550	80	0.3	4.4	4664	3-6 m	250	13	5	480	2.5	3,40,500/-
3	Palora	Palora	Parseo ni	43 (Part)	Pench	250	80	0.4	2	2826	3-6 m	260	13	3	378	1.75	2,63,100/-
4	Pipla	Pipla	Parseo ni	353 (Part), 354 (Part)	Pench	215	90	0.4	1.93	2734	3-6 m	500	13	2	300	2.2	2,18,500/-
5	Sihora	Sihora	Parseo ni	170/1,170/2 (Part)	Kanhan	500	90	0.3	4.5	4770	3-6 m	700	13	5	850	2.5	3,44,500/-
6	Waghoda	Waghoda	Parseo ni	127/1 (Part)	Pench	334	120	0.9	4	12746	3-6 m	800	13	7	980	3.1	6,90,200/-
7	Yesamba	Yesamba	Parseo ni	207 (Part)	Pench	210	75	0.9	1.57	5008	3-6 m	530	13	4	655	2.3	5,83,900/-
8	Garada	Garada	Parseo ni	104(Part)	Pench	400	80	0.7	3.2	7915	3-6 m	720	13	5	840	2.6	7,57,700/-
9	Saholi-A	Saholi	Parseo ni	15, 16, 17, 18 & 19 (Part)	Kanhan	500	50	0.8	2.5	7067	3-6 m	370	13	5	585	2.7	3,35,000/-
10	Saholi-B	Saholi	Parseo ni	115/2, 112/2, 136/2, 141/2	Kanhan	600	60	1	3.6	12720	3-6 m	800	13	8	920	3.5	6,13,900/-
11	Paradi K	Paradi K	Parseo ni	153	Kanhan	450	100	0.8	4.5	12720	3-6 m	750	13	4	890	3.5	5,98,100/-
12	Juni Kamthi	Juni Kamthi	Parseo ni	230,240/2(Pa rt)	Kanhan	200	100	0.8	2	5653	3-6 m	680	13	4	799	3	2,18,500/-
13	Riwadi	Riwadi	Saoner	179,180,183,1 84,&186	Kanhan	450	75	0.4	3.37	4770	3-6 m	900	13	4	1000	3	248500/-
14	Wakodi	Wakodi	Saoner	44 (Part)	Kanhan	500	70	0.4	3.5	4946	3-6 m	580	13	4	760	3	248500/-

S. No.	Name of Sand Ghat	Name of Village	Taluk a	Nearest Gut. No.	Name of River/ Stream	Dimension of sand Gat in Cum			Are of Sand Ghat in Ha	Sand Proposed for scopin g in Brass	Width of app roc h road	Length of app roc h Road	No. of work ers	No. of Tracto res	No. of trees along bank and trasport ion road	Water require ment in cum/da y	EMP cost in Rs.
15	Ramdongri -B	Ramdongri	Saoner	143 (Part) &144(Part)	Kanhan	400	100	0.3	4	4240	3-6 m	890	13	4	999	3	393950/-
16	Karajghat	Karajghat	Saoner	15(Part)	Kanhan	470	75	0.4	3.52	4982	3-6 m	700	13	3	850	3	390000/-
17	Esapur	Esapur	Saoner	90 (Part),93,94,15&116	Kanhan	475	80	0.45	3.8	6042	3-6 m	340	13	4	510	3	393950/-
18	Rohana	Rohana	Saoner	168, 3 (Part), 7B (Part)	Kanhan	350	60	0.5	2.1	3710	3-6 m	430	13	4	620	3	2,18,500/-
19	Bawangaon -A	Bawangaon	Saoner	252&253	Kanhan	243	80	0.4	1.94	2747	3-6 m	320	13	3	460	3	2,18,500/-
20	Gosewadi-A	Gosewadi	Saoner	285,286 & 287 (Part)	Kanhan	420	100	0.5	4.2	7420	3-6 m	370	13	5	480	3.4	3,28,500/-
21	Bawangaon -B	Bawangaon -B	Saoner	20,32,04,208	Kanhan	450	60	0.6	2.7	5724	3-6 m	760	13	4	535	2.4	3,52,500/-
22	Chiknaghat	Chiknaghat	Mouda	543/1,542,541,543/2	Kanhan	540	90	0.6	4.86	10303	3-6 m	690	13	3	890	3	418000/-
23	Kiranpur	Kiranpur	Mouda	103, 104, 105, 107, 109, 110, 111, 113, 115, 116, 117, 118, 119, 4 & 5	Kanhan	620	80	0.8	4.95	14021	3-6 m	680	13	4	810	3	418000/-
24	Mohkhedi	Mohkhedi	Mouda	117, 118 & 119	Kanhan	490	100	0.7	4.9	12120	3-6 m	350	13	3	480	3	418000/-
25	Unagaon	Unagaon	Kamptee	212,217,218,219,222,211 (Part)	Kanhan	650	74	0.3	4.81	5098	3-6 m	300	13	3	520	3	418000/-
26	Chikna A	Chikna A	Kamptee	8,9/1,9/2,10/1,10/2,11,12	Kanhan	450	50	0.5	2.25	3975	3-6 m	980	13	4	900	2.5	3,38,200/-

S. No.	Name of Sand Ghat	Name of Village	Taluka	Nearest Gut. No.	Name of River/ Stream	Dimension of sand Gat in Cum			Area of Sand Ghat in Ha	Sand Proposed for scoping in Brass	Width of approach road	Length of approach Road	No. of workers	No. of Tractors	No. of trees along bank and transportation road	Water requirement in cum/day	EMP cost in Rs.
				(Part)													
27	Neri Ghat	Neri Ghat	Kamptee	217/2/3, 219, 220, 221/1/2, 223, 224/1 (Part)	Kanhan	565	86	1.5	4.85	25754	3-6 m	450	13	3	790	3	418000/-
28	Chichghat	Chichghat	Kuhi	43	Kanhan	300	100	0.5	3	5300	3-6 m	230	13	3	420	3	248500/-

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, Nagpur/Successful Bidder Nagpur District, Nagpur.
2	Status of lease	New, Individual /Project Proponent/Successful Bidder for auction of sand ghat by District Collector, Nagpur
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 03 rd September 2019.
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.

- a. Overburden/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 the 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 September or as defined by District Collector.
- f. About 13 labours per ghat will be required
- g. 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.
- h. 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 • Avoiding overfilling 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 • 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

Sr. No	Impact Sources	Impact	Control Measures
			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
- 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 vehicles will strictly follow traffic rules
- Speed of mineral transport vehicles will be regulated.
- Overloading of the tractors will not be allowed.
- The mineral transporting tractors vehicles will be properly covered with tarpaulin to avoid fugitive emissions
- Batch transport system will be adopted in consultation with other sand ghat operations in the area to avoid excess traffic at time on road.
- Mineral Transportation will be done only during day time
- Strict action will be taken against any driver, who do not comply with traffic rules.

- **Plantation Programme**

- It is proposed to plant local species during monsoon period along the bank of river and village roads.
- 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.

