

Executive Summary on Environment Management Plan

For

Sand Ghats

At

Nagpur District, State Maharashtra

For

Public Hearing for 40 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 40 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	Name of Village	Taluka	Nearest Gut. No.	Name of River/ Stream	Dimension of sand Gat in Cum			Area of Sand Gat in Ha	Sand Proposed for scopin g in Brass	Width of approc h road	Length of approc h Road	No. of work ers	No. of Tractors	No. of trees along bank & transpor tation road	Water requir ement in cum/ day	EMP cost in Rs.
					L	W	D									
1	Mouda (Chikna Ghat)	Mauda	Juna S.No. 543/1, 542, 541 and 543/2 adjacent part	Kanhan	540	65	1	3.51	12402	3-6 m	780 m	15	5	750	2.5	₹ 7,42,400
2	Kirnapur	Mauda	S.No. 103, 104, 105, 107, 109, 110, 111, 113, 115, 116, 117, 118, 119, 4, 5 adjacent part	Kanhan	620	80	1	4.95	17526	3-6 m	254 m	13	5	477	2.5	₹ 9,49,400
3	Mohkhedi	Mauda	S.No. 116, 117, 118, 119 adjacent part	Kanhan	490	100	1	4.9	17314	3-6 m	141 m	15	5	352	3	₹ 9,80,400
4	Mahalgao n-A	Mauda	S.No. 6, 260 PimpalgaonS. No. 23/2, 24, 25, 26 adjacent part	Sur	380	60	0.7	2.28	5639	3-6 m	444 m	15	5	620	3	₹ 3,38,350
5	Mahalgao n-B	Mauda	S.No. 373, 368, 387 adjacent part	Sur	275	70	0.7	1.92	4761	3-6 m	171 m	15	5	285	3	₹ 2,85,660
6	Sirsoli	Mauda	S.No. 188 adjacent part	Sur	250	45	0.6	1.125	2703	3-6 m	382 m	15	5	441	3	₹ 1,62,400
7	Garanda	Parseoni	S.No. 104/1/A/1, 104/1/A/2, 104/1/B/1, 104/1/B/2, 104/2/A, 104/2/B/2	Pench	345	45	0.8	1.5525	4388	3-6 m	886 m	15	5	843	3	₹ 2,63,280
8	Yesamba	Parseoni	S.No. 207 part	Pench	302	35	1	1.057	3734	3-6 m	168 m	15	5	384	2.5	₹ 2,24,040
9	JuniKam	Parseoni	S.No. 230/1	Kanhan	400	50	0.8	2	5653	3-6 m	131 m	15	5	365	2.5	₹ 3,39,180

	ptee (Gadegh at)		part														
10	Ghat Rohana	Parseoni	S.No. 52, 53, 45, 46	Pench	500	60	1	3	10600	3-6 m	397 m	15	5	448	2.5	₹ 6,36,000	
11	Palora	Parseoni	S.No. 43/1, 43/2, 43/3, 102/1, 102/2, 102/4, 105/5	Pench	200	60	1	1.2	4240	3-6 m	949 m	15	5	725	2.5	₹ 2,54,400	
12	Singardip	Parseoni	S.No. 80, 81/1, 81/2, 82	Kanhan	330	75	1	2.475	8745	3-6 m	118 m	15	5	309	2.5	₹ 5,24,700	
13	Pipla	Parseoni	S.No. 353/1, 353/2, 354	Pench	215	90	1	1.935	6837	3-6 m	201 m	15	5	400	2.5	₹ 4,10,220	
14	Waghoda	Parseoni	S.No. 127/1	Pench	410	120	1	4.92	17385	3-6 m	405 m	15	5	325	2.5	₹ 10,43,100	
15	Saholi-B	Parseoni	S.No. 108/2, 109/2, 110/2, 112/2, 113/2, 115/2, 116/2	Kanhan	360	30	0.8	1.08	3053	3-6 m	282 m	15	5	540	2.5	₹ 1,83,180	
16	Nayakun d	Parseoni	33, 26	Pench	360	45	1	1.62	5724	3-6 m	76.5 m	15	5	390	2.5	₹ 3,43,450	
17	Pardi K	Parseoni	153	Kanhan	450	100	1	4.5	15901	3-6 m	249 m	15	5	425	2.5	₹ 9,54,060	
18	Bina	Kamptee	S.No. 57/1, 57/2, 56, 53/3	Kanhan	490	100	1	4.9	17314	3-6 m	259 m	15	5	325	2.5	₹ 10,05,000	
19	Waregao n	Kamptee	10/1, 10/2, 13/2	Kolar	390	60	0.6	2.34	4961	3-6 m	411 m	15	5	720	2.5	₹ 2,97,660	
20	Sonegao nRaje	Kamptee	S.No. 337 part, 338, 339	Kanhan	752	65	0.8	4.888	13817	3-6 m	160 m	15	5	480	2.5	₹ 8,29,000	
21	Ungaon	Kamptee	S.No. 211, 212, 217, 218, 219, 222	Kanhan	650	74	1	4.81	16996	3-6 m	433 m	15	5	810	2.5	₹ 10,09,000	
22	Neri	Kamptee	S.No. 217/2/3, 219, 220, 221/1/2, 223, 224	Kanhan	565	86	1	4.859	17169	3-6 m	438 m	15	5	810	2.5	₹ 4,50,000	
23	Chikna-A	Kamptee	S.No. 9/1, 9/2, 10/1, 10/2, 11, 12	Kanhan	500	50	0.8	2.5	7067	3-6 m	509 m	15	5	550	2.5	₹ 3,30,000	
24	Chikna-B	Kamptee	S.No. 7, 6	Kanhan	400	50	0.8	2	5653	3-6 m	117 m	15	5	455	2.5	₹ 3,70,000	
25	Bhamew ada	Kamptee	S.No. 136/2, 135/2, 129, 144 part	Kanhan	600	30	0.8	1.8	5088	3-6 m	530 m	15	5	475	2.5	₹ 3,70,000	
26	Gosewad	Saoner	S.No. 285,	Kanhan	480	100	1	4.8	16961	3-6 m	125 m	15	5	325	2.5	₹ 10,30,000	

	i -A		286, 287													
27	Wakodi	Saoner	S.No. 44	Kanhan	500	70	0.8	3.5	9894	3-6 m	530 m	15	5	520	2.5	₹ 5,93,640
28	Walni	Saoner	S.No. 276, 7, 8/1, 8/2, 9	Kanhan	480	80	0.8	3.84	10855	3-6 m	192 m	15	5	275	2.5	₹ 6,48,800
29	Isapur-A	Saoner	S.No. 92, 64, 115, 116, 117, 118, 119, 120, 126	Kanhan	450	80	0.8	3.6	10176	3-6 m	528 m	15	5	580	2.5	₹ 6,10,560
30	Rohana	Saoner	168, 3 part 7 B part	Kanhan	350	60	1	2.1	7420	3-6 m	567 m	15	5	620	2.5	₹ 4,45,200
31	Ramdong ri-A	Saoner	30, 31, 32	Kanhan	450	70	1	3.15	11130	3-6 m	256 m	15	5	520	2.5	₹ 6,48,800
32	Ramdong ri-B	Saoner	143 part, 144 part	Kanhan	400	100	1	4	14134	3-6 m	500 m	15	5	720	2.5	₹ 8,48,040
33	Karajghat	Saoner	S.No. 15, part 5	Kanhan	470	75	1	3.525	12455	3-6 m	176 m	15	5	590	2.5	₹ 7,47,300
34	Khapapet h	Saoner	S.No. 284 Part	Kanhan	500	75	1	3.75	13250	3-6 m	163 m	15	5	430	2.5	₹ 7,46,100
35	Kocchi	Saoner	S.No. 264, 267, 263	Kanhan	450	80	0.8	3.6	10176	3-6 m	168 m	15	5	300	2.5	₹ 6,02,000
36	Raiwadi	Saoner	S.No. 190, 191 Adjoining	Kanhan	300	75	1	2.25	7950	3-6 m	187 m	15	5	540	2.5	₹ 4,77,000
37	Tembhur doh	Saoner	S.No. 279, 274 Adjoining	Kanhan	300	60	1	1.8	6360	3-6 m	214 m	15	5	500	2.5	₹ 3,70,000
38	Kawadas	Saoner	S.No. 218, 219, 220, 244, 243	Kolar	450	35	0.5	1.57	2782	3-6 m	228 m	15	5	320	2.5	₹ 1,68,400
39	Bawanga on-B	Saoner	203, 204, 208	Kanhan	450	60	0.8	2.7	7632	3-6 m	450 m	15	5	352	2.5	₹ 4,57,920
40	Naigaon (Thakre)	Narkhed	S.No. 103, 104	Jamba	750	40	0.5	3	5300	3-6 m	306 m	15	5	270	2.5	₹ 3,18,350

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
2	Status of lease	New
3	Mineral for which lessee intends to mine	River bed sand
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 Gram Panchayat as per Sand Mining Policy of Maharashtra State
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.

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.

1. Anticipated Environment Impacts and Management Plan

- **Air**

A summary of Air Pollution control measures is given below:

Details	Management Plan
Air Pollution	<ul style="list-style-type: none"> • Water Sprinkling of approach roads upto 1.00 km will be done for dust suppression • Speed of the tractors will be within limits • Road maintenance will be done regularly • Compaction of roads will be done • Sand will be transported by tractor trolleys covered with tarpaulin sheets • Tractor trolleys will not be overloaded
Noise Pollution	<ul style="list-style-type: none"> • Ear muffs and ear plugs will be provided to labours • Heavy noise generating machines will not be deployed other than tractor trolleys • Tractor engines will be shut down while loading • Greenbelt shall be developed to attenuate noise generation
Water Pollution	<ul style="list-style-type: none"> • Mining activity will be closed during the monsoon, so that replenishment of sand can take place • Mobile toilets will be provided at mine site for labours • Sand mining will be carried out in dry river bed only. • Waste material like polythene bag, jute bag, etc. will not be allowed to remain/spill in river bed
Land Environment	<ul style="list-style-type: none"> • Minimum safe distance of 3 m or 1/10th of the width of the river shall be kept from both sides of the bank to avoid erosion • Depth of mining will be maximum 1.5 m depending upon availability of sand.
Biological Environment	<ul style="list-style-type: none"> • Since the mining activity will be done of dry bed, hence there will not be any impact on biological environment

Socio Economic Environment	<ul style="list-style-type: none"> • Employment generation due to this mining activity and local villagers will be given priority.
Waste/Overburden Management	<ul style="list-style-type: none"> • There will not be any generation of waste or overburden due to this mining activity

OCCUPATIONAL HEALTH AND SERVICES

A summary of Occupational Health and Services is given below:

- Labour will be provided with Personal Protective Equipments like safety helmet, ear plugs, ear muffs, gum boot, facemasks etc
- Facemasks shall be provided for protection from dust
- Drinking water and toilet facility shall be provided to labours
- First aid kit shall be made available in mining area
- Mobile toilets shall be provided for the labours
- Dust bins shall be provided for waste collection and disposed by the local authorities

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
- Local Species of atleast 500 no of trees will be planted with c/c distance of 2 m

Location of greenbelt	Both sides of approach road, On the river banks of the sand spot & nearby open areas. Haul Road outside riverbed
No. of plants to be planted	500 Per Hectare
Spacing of plants	2 m grid interval
Species selected	Native species

BENEFITS OF THE PROJECT

- Scientific method of mining will restrict water from spreading on agriculture land and in nearby habitation creating flood situation
- Government will be benefitted in the form of Royalty due to the mining activity
- Employment will be generated for local villagers due to mining
- This will help in stopping of illegal mining in the market
- Around 13 to 15 people of local area will get the employment due to this project

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.