

**EXECUTIVE SUMMARY ON
DRAFT ENVIRONMENTAL MANAGEMENT PLAN**

FOR

SAND GHATS

AT

NANDED DISTRICT

STATE – MAHARASHTRA

FOR PUBLIC HEARING FOR 85 SAND GHATS

PROPONENT

DISTRICT MINING OFFICER, COLLECTOR OFFICE, NANDED

CONSULTANT

ENVIRO TECHNO CONSULT PRIVATE LIMITED

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

MAY 2021

Introduction :

District Collector, Nanded intends to auction sand ghats and appointed District Mining Officer Nanded as project proponent as per sand mining guidelines dated 03.09.2019. Total 85 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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Sand Auction for Year 2021-22															
S. No.	Taluka	Village	River	Nearest Gut No.	(sand deposition in meter)	Sand Ghat Dimensions		Sand Ghat Dimensions for Auction		Area in Ha.	Road Length	Proposed no. of Tractors in Nos.	Proposed Labours in Nos.	Proposed Plantation	Proposed EMP in Rs. Lakhs
						Area in sq. m. (L x B X D)	Total Deposition in Brass	Area in sq. m. (L x B X D)	Deposition in Brass						
1	Himayatnagar	Kamari	Lakhadi	180/1, 195/1, 202, 204, 180/3, 180, 195/2, 195/3	2.50	280x40x2.50	9894	280x40x2.50	1979	1.12	893	7	28	1033	11.44
2	Himayatnagar	Pimpri	Painganga	49/1, 49/2, 50, 1/1, 4, 5	2.50	170x60x2.50	9011	170x60x0.50	1802	1.02	683	7	28	768	9.64
3	Himayatnagar	Dighi	Painganga	11/1, 11/5, 11/6	2.50	140x75x2.50	9276	140x75x0.50	1855	1.05	899	7	28	969	11.07
4	Himayatnagar	Virsani	Painganga	88/1, 88/2	2.50	130x80x2.50	9187	130x80x0.50	1837	1.04	2204	7	28	2269	23.11
5	Himayatnagar	Renapur Be.	Painganga	80, 81	2.50	140x80x2.50	9894	140x80x0.50	1979	1.12	894	8	28	964	11.09
6	Himayatnagar	Dharapur	Painganga	72, 73, 76	2.50	180x60x2.50	9541	180x60x0.50	1908	1.08	779	7	28	869	10.30
7	Himayatnagar	Dhanora J.	Painganga	74, 75, 78, 79, 80, 87, 90	2.50	140x75x2.50	9276	140x75x0.50	1855	1.05	1470	7	28	1540	15.07
8	Himayatnagar	Dolhari	Painganga	131, 132, 136, 137, 138, 140	2.50	180x60x2.50	9541	180x60x0.50	1908	1.08	448	7	28	538	8.02
9	Himayatnagar	Budli Be.	Painganga	39, 40, 41, 42, 49, 50	2.50	200x60x2.50	10601	200x60x0.50	2120	1.20	1594	8	28	1694	16.19
10	Himayatnagar	Palaspur	Painganga	82, 83, 85, 89, 97	2.50	190x60x2.50	10071	190x60x0.50	2014	1.14	1500	8	28	1595	15.40
11	Himayatnagar	Sirpalli J.	Painganga	138, 140, 141, 142, 143, 150, 151, 152	2.50	205x50x2.50	9055	205x50x0.50	1811	1.03	378	7	28	480	7.59
12	Himayatnagar	Kautha J.	Painganga	76, 80, 81, 82	2.50	200x60x2.50	10601	200x60x0.50	2120	1.20	750	8	28	850	10.24
13	Deglur	Shevala-1	Manjara	354, 355, 356	2.50	314x150x2.50	41608	314x150x0.50	8322	4.71	2734	32	28	2891	25.83
14	Deglur	Shevala-2	Manjara	357, 358, 90	2.50	316x140x2.50	39081	316x140x0.50	7816	4.42	2356	30	28	2514	30.30
15	Deglur	Shevala-3	Manjara	91, 92, 130, 131, 352	2.50	301x150x2.50	39885	301x150x0.50	7977	4.52	2010	30	28	2160	21.42
16	Deglur	Shekhapur	Manjara	21, 22, 23, 27, 146, 147	2.50	424x90x2.50	33710	424x90x0.50	6742	3.82	2218	26	38	2130	22.06
17	Deglur	Tamlur	Manjara	222, 226, 257, 258, 303, 309	2.50	801x50x2.50	35380	801x50x0.50	7076	4.01	1700	27	38	2100	19.50
18	Deglur	Shelgaon-1	Manjara	231, 232	2.50	346x142x2.50	43403	346x142x0.50	8681	4.91	1863	33	28	2033	19.77
19	Deglur	Shelgaon-2	Manjara	177, 178, 179, 180	2.50	383x120x2.50	40601	383x120x0.50	8120	4.60	1863	31	38	2055	19.85
20	Deglur	Shelgaon-3	Manjara	167, 166, 175	2.50	410x100x2.50	36219	410x100x0.50	7244	4.10	1900	30	38	2105	20.12
21	Deglur	Shelhaon-4	Manjara	134, 135, 136	2.50	505x53x2.50	23644	505x53x0.50	4729	2.68	2120	33	38	2373	21.24
22	Deglur	Sangviumar	Lendi	38, 142, 143, 28, 27, 26, 25	2.50	402x42x2.50	14915	402x42x0.50	2983	1.69	640	11	33	841	10.14
23	Deglur	Mendankaloor	Lendi	84, 83, 225, 226 82, 228	2.50	700x40x2.50	24735	700x40x0.50	4947	2.80	1900	19	28	1900	20.24
24	Mahur	Takli	Painganga	7, 8, 9, 83, 84, 85, 86, 87	2.50	250x50x2.50	11042	250x50x0.50	2208	1.25	512	8	33	637	8.69
25	Mahur	Sayphal	Painganga	3	2.75	300x35x2.75	10203	300x35x0.75	2783	1.05	2825	11	28	2975	25.18
26	Mahur	Lanji	Painganga	15, 16, 17, 78, 79	2.50	250x50x2.50	11042	250x50x0.50	2208	1.25	2237	8	28	2362	20.77
27	Umri	Balegaon	Godavari	119/1, 119/2, 119/3	2.50	475X47X2.50	19722	475X47X0.50	3944	2.23	981	15	33	1221	13.04

Executive summary NandedSand Ghats

28	Biloli	Sagroli-1	Manjara	358	2.70	150x100 x2.70	14311	150x100 x0.70	3710	1.50	819	14	28	894	10.92
29	Biloli	Sagroli-2	Manjara	359, 360	2.70	170 x 100x2.70	16219	170 x 100x0.70	4205	1.70	1312	16	33	1397	14.63
30	Biloli	Sagroli-3	Manjara	361, 362	2.70	140x100x2.70	13357	140x100x0.70	3463	1.40	1106	13	33	1176	12.90
31	Biloli	Sagroli-4	Manjara	451	2.70	160x100x2.70	15265	160x100x0.70	3958	1.60	981	15	33	1061	12.20
32	Biloli	Sagroli-5	Manjara	457, 459, 460	2.70	155x100x2.70	14788	155x100x0.70	3834	1.55	706	15	33	786	10.30
33	Biloli	Yesgi-1	Manjara	230	2.90	110x160x2.90	18035	110x160x0.90	5597	1.76	2447	21	33	2502	22.70
34	Biloli	Yesgi-2	Manjara	229, 230 Part	2.90	100x160x2.90	16396	100x160x0.90	5088	1.60	2447	20	33	2497	22.57
35	Biloli	Yesgi-3	Manjara	176 Part	2.90	80x160x2.90	13117	80x160x0.90	4071	1.28	2509	15	33	2549	22.73
36	Biloli	Yesgi-4	Manjara	231 Eastern side	2.75	110x150x2.75	16034	110x150x0.75	4373	1.65	2509	17	33	2564	22.92
37	Biloli	Yesgi-5	Manjara	231 Western Side	2.75	105x150x2.75	15305	105x150x0.75	4174	1.58	2509	16	33	2564	22.86
38	Biloli	Yesgi-6	Manjara	231 Central Part	2.75	89x150x2.75	12973	89x150x0.75	3538	1.34	2509	13	28	2559	22.57
39	Biloli	Yesgi-7	Manjara	233 Eastern Part	2.75	185x80x2.75	14382	185x80x0.75	3922	1.48	2509	15	28	2599	22.88
40	Biloli	Yesgi-8	Manjara	233 Western Part	2.75	197x80x2.75	15314	197x80x0.75	4177	1.58	2509	16	33	2609	23.09
41	Biloli	Yesgi-9	Manjara	233 Central Part	2.75	200x80x2.75	15548	200x80x0.75	4240	1.60	2509	16	33	2609	23.09
42	Biloli	Bolegaon-1	Manjara	288	2.60	200x100x2.60	18375	200x100x0.60	4240	2.00	1023	16	28	1123	12.59
43	Biloli	Bolegaon-2	Manjara	289	2.60	242x100x2.60	22233	242x100x0.60	5131	2.42	428	20	33	549	8.85
44	Biloli	Bolegaon-3	Manjara	320 Eastern Part	2.60	290x100x2.60	26643	290x100x0.60	6148	2.90	428	25	33	573	9.24
45	Biloli	Bolegaon-4	Manjara	320 Western Part	2.60	300x100x2.60	27562	300x100x0.60	6360	3.00	559	25	38	709	10.18
46	Biloli	Bolegaon-5	Manjara	320 Central Part	2.60	215x100x2.60	19753	215x100x0.60	4558	2.15	1023	20	33	1133	12.90
47	Biloli	Ganjaon-1	Manjara	213	2.80	200x90x2.80	17809	200x90x0.80	5088	1.80	3400	20	48	2900	25.35
48	Biloli	Ganjaon-2	Manjara	239, 213 Part	2.80	150x90x2.80	13357	150x90x0.80	3816	1.35	3400	15	33	3475	29.15
49	Biloli	Ganjaon-3	Manjara	240	2.80	188x90x2.80	16741	188x90x0.80	4783	1.69	2800	18	33	2894	25.21
50	Biloli	Ganjaon-4	Manjara	280, 281	2.70	239x100x2.70	22802	239x100x0.70	5912	2.39	2800	23	33	2920	25.61
51	Biloli	Ganjaon-5	Manjara	282, 283, 297,299	2.70	250x100x2.70	23852	250x100x0.70	6184	2.50	2800	25	33	2925	25.75
52	Biloli	Ganjaon-6	Manjara	325, 326	2.80	190 x100 x2.80	18799	190 x100 x0.80	5371	1.90	2803	21	33	2898	25.40
53	Biloli	Ganjaon7	Manjara	354 Eastern Part	2.80	182 x100 x2.80	18007	182 x100 x0.80	5145	1.82	2803	20	33	2894	25.32
54	Biloli	Ganjaon-8	Manjara	354, 356	2.80	180 x100 x2.80	17809	180 x100 x0.80	5088	1.80	2803	20	33	2893	25.32
55	Biloli	Ganjaon-9	Manjara	357	2.75	215 x100 x2.75	20892	215 x100 x0.75	5698	2.15	3157	22	33	3265	27.99
56	Biloli	Ganjaon-10	Manjara	358	2.75	216 x100 x2.75	20989	216 x100 x0.75	5724	2.16	3157	22	33	3265	27.99
57	Biloli	Karla Bu-1	Manjara	147, 161 Part	2.50	240 x100 x2.50	21201	240 x100 x0.50	4240	2.40	1695	16	28	1815	17.39
58	Biloli	Karlabu 1 /1	Manjara	161	2.50	250 x100 x2.50	22085	250 x100 x0.50	4417	2.50	1695	17	28	1820	17.47
59	Biloli	Karla Bu. 2	Manjara	53,54,55	2.60	175 x100 x2.60	16078	175 x100 x0.60	3710	1.75	1582	14	28	1672	16.34

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60	Biloli	Karla Bu 2 /2	Manjara	57,58	2.60	170 x100 x2.60	15618	170 x100 x0.60	3604	1.70	1582	14	28	1667	16.31
61	Biloli	Machnoor-1	Manjara	14 East	2.70	220 x100 x2.70	20989	220 x100 x0.70	5442	2.20	3580	21	48	3690	31.01
62	Biloli	Machnoor-2	Manjara	14 West	2.70	205 x100 x2.70	19558	205 x100 x0.70	5071	2.05	3580	20	48	3680	30.91
63	Biloli	Machnoor-3	Manjara	15 East	2.70	230 x100 x2.70	21943	230 x100 x0.70	5689	2.30	3580	22	47	3695	31.09
64	Biloli	Machnoor-4	Manjara	15 West	2.70	200 x100 x2.70	19081	200 x100 x0.70	4947	2.00	3580	19	48	3680	30.85
65	Biloli	Machnoor-5	Manjara	30, 31, 32 Part	2.70	225 x100 x2.70	21466	225 x100 x0.70	5558	2.25	2400	21	48	2510	22.75
66	Biloli	Machnoor-6	Manjara	32, 51 Part	2.70	265 x100 x2.70	25283	265 x100 x0.70	6536	2.65	2400	25	38	2533	28.99
67	Biloli	Machnoor-7	Manjara	52 East	2.70	290 x80 x2.70	22134	290 x80 x0.70	5739	2.32	2400	22	33	2545	22.88
68	Biloli	Machnoor-8	Manjara	52 West	2.70	310 x80 x2.70	23661	310 x80 x0.70	6134	2.48	1434	24	48	1584	16.35
69	Biloli	Nagni-1	Manjara	121,122 Part	2.50	180 x120 x2.50	19081	180 x120 x0.50	3816	2.16	1677	14	28	1767	17.01
70	Biloli	Nagni-2	Manjara	122	2.50	170 x120 x2.50	18021	170 x120 x0.50	3604	2.04	1677	14	28	1762	16.96
71	Biloli	Hungunda-1	Manjara	201	2.60	240 x100 x2.60	22049	240 x100 x0.60	5142	2.40	1775	20	38	1895	18.27
72	Biloli	Hungunda-2	Manjara	202	2.60	200 x100 x2.60	18375	200 x100 x0.60	4240	2.00	1775	16	33	1875	17.95
73	Hadgaon	Manula Bu.	Painganga	308, 309, 310' 311, 312, 313	2.50	500x20x2.50	8834	500x20x0.50	1767	1.00	1622	7	28	1872	11.70
74	Hadgaon	Golegaon-1	Painganga	1/3, 1/4, 2/4, 3/1, 4	2.50	350x30x2.50	9276	350x30x2.50	1855	1.05	1009	7	28	1184	12.37
75	Hadgaon	Golegaon-2	Painganga	133to 136	2.50	400x25x2.50	8834	400x25x2.50	1767	1.00	1009	7	28	1209	14.01
76	Hadgaon	Babhli	Painganga	42, 43, 45, 46, 66, 67, 68, 69, 70	2.50	450x25x2.50	9938	450x25x2.50	1988	1.13	1529	8	28	1754	16.31
77	Hadgaon	Belmandal	Painganga	1 ,5, 6, 6/1, 6/2, 6/3, 9	2.50	500x20x2.50	8834	500x20x2.50	1767	1.00	1780	7	28	2030	18.14
78	Hadgaon	Gurfali-1	Painganga	5,6,7,8,11,12,13,14,15, 16,17,18,19	2.50	500x20x2.50	8834	500x20x2.50	1767	1.00	837	7	28	1087	11.54
79	Hadgaon	Gurfali-2	Painganga	26 to 36	2.50	600x20x2.50	10601	600x20x2.50	2120	1.20	2407	8	28	2707	22.00
80	Hadgaon	Banchincholi	Painganga	139/1/A,139/B, 139/3, 140/A, 144	2.50	500x20x2.50	8834	500x20x0.50	1767	1.00	2048	8	28	2298	20.00
81	Nanded	Gangabet	Godavari	21,22,23	2.50	210x50x2.50	9276	210x50x2.50	1855	1.05	2053	7	28	2158	19.33
82	Nanded	Bhanagi	Godavari	60,61,62,64,65,68,69	2.50	205x50x2.50	9055	205x50x2.50	1811	1.03	1970	7	28	2073	18.74
83	Nanded	RahatiBu	Godavari	174,177 to 188 ,218 to 221	2.50	250x40x2.50	8834	250x40x2.50	1767	1.00	1182	7	28	1307	13.30
84	Nanded	Someshwar	Godavari	44 to 55	2.50	250x40x2.50	8834	250x40x2.50	1767	1.00	1231	7	28	1356	13.07
85	Nanded	Jaitapur	Godavari	104, 105, 111, 114	2.50	250x20x2.50	4417	250x20x2.50	4417	0.50	N/A	N/A	N/A	N/A	N/A

● Status of Statutory Clearances for Sand Ghat

Name & Address of Allottee	District Mining Officer Nanded / Successful Bidder Nanded District, Nanded
Status of the lease	New, Individual/ Project Proponent/Successful Bidder for auction of sandghat by District Collector Nanded.
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	• 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	• 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	• 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	• 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	• 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 Ghatal lottee will implement the Environmental Management Plan for the amount as per Table 1.0 on his own.

Successful Bidder/ Sand Ghatal lottee 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.