

EXECUTIVE SUMMARY
ENVIRONMENT MANAGEMENT PLAN

for

SAND GHATS

at

PARBHANI DISTRICT, STATE
MAHARASHTRA

for

PUBLIC HEARING
FOR 58 SAND GHATS

PROJECT PROPONENT
DISTRICT MINING OFFICER,
COLLECTOR OFFICE, PARBHANI

Environment consultant

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ABBREVIATIONS

Short Form	Long Form
DMO	District Mining Officer
GSDA	Groundwater Surveys & Development Agency
MPCB	Maharashtra Pollution Control Board
PPE	Personal Protective Equipment
EC	Environmental Clearance
MoEFCC	Ministry of Environment Forest and Climate Change

EXECUTIVE SUMMARY

INTRODUCTION

The District Collector, Parbhani intends to auction sand ghats and designated District Mining Officer (¹DMO), Parbhani as a project proponent.

A total of 58 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 Groundwater Surveys & Development Agency (²GSDA)., representative of Maharashtra Pollution Control Board (³MPCB) for scoping of sand by manual method.

1. Environmental Clearance is attempted for 58 Sand ghats located in Manwath, Parbhani, Purna, Jintur, Gangakhed, Selu, Palam, Pathri and Sonpeth Talukas in Parbhani District.
2. As Per the Government of Maharashtra Letter No: Sankirn- 2019/P.K.01/Ta.K.3 dated 03/12/2019, a Public Hearing must be conducted for mines less than 5 Hectares.
3. Mahabal Enviro Engineer Pvt. Ltd. was awarded work to obtain Environmental Clearances for Sand Spots of Parbhani by the Collector Office, Parbhani.

¹ District Mining officer

² Groundwater Surveys & Development Agency

³ Maharashtra Pollution Control Board

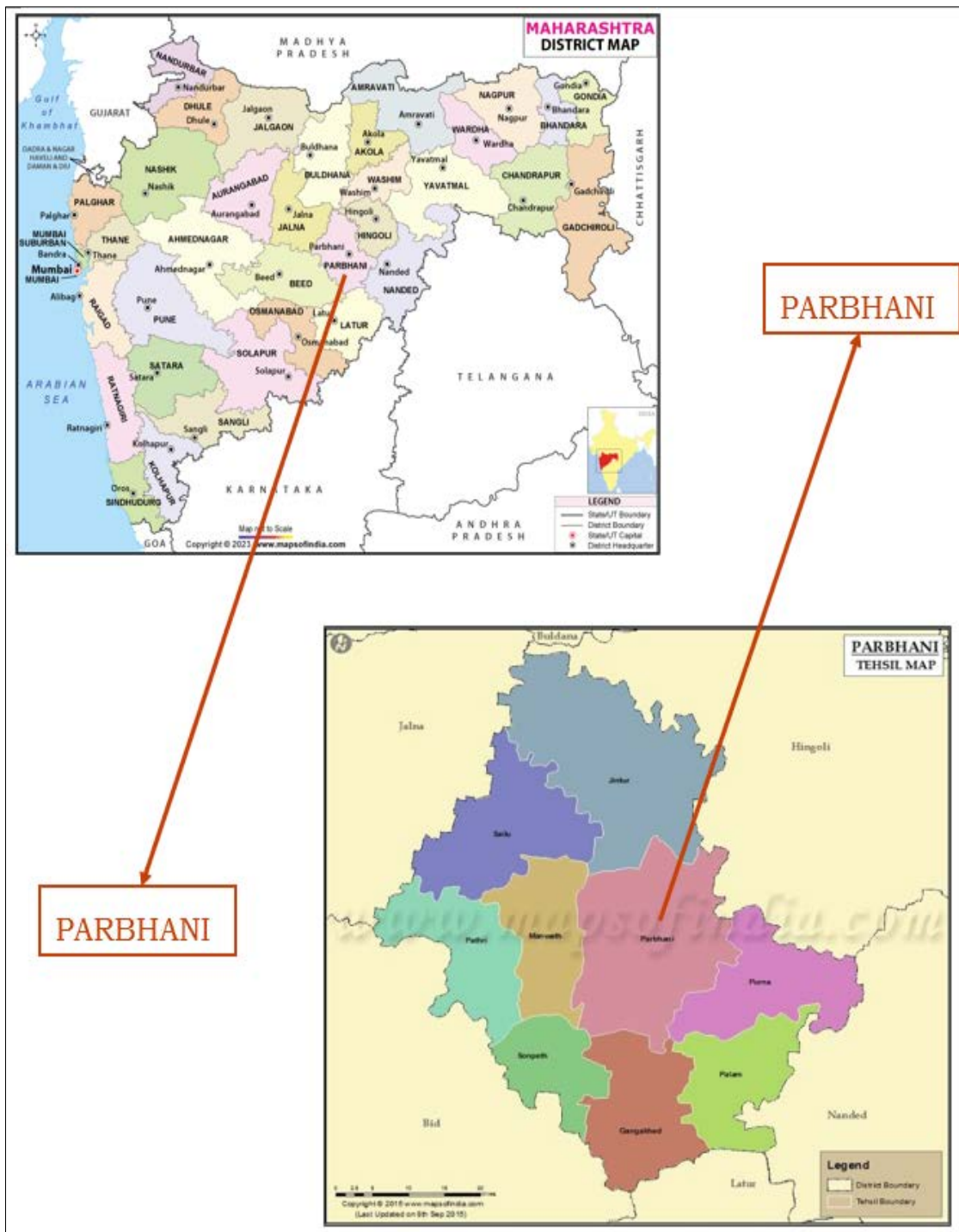


Fig 1 Location of Parbhani

LIST OF SAND GHAT IN PARBHANI**TABLE 1 - List of approved 58 sand ghats list.**

Sr.	Sand Ghat Name	Tahsil	River Name	Gut no.	Area (in ha)	Area in meter			Availabe sand in brass	GSDA feedback	Gram sabha resolution	Sand auction yes/no
						Length	Width	Depth				
1	Wangi	Manwath	Godavari	12, 13, 14, 15, 16, 17, 18, 19, 8, 9, 10, 51, 52, 53, 54	4.20	700	60	1.00	7420	YES	YES	YES
2	Rajura	Manwath	Dudhana	1, 2	1.04	650	16	1.00	2261	YES	YES	YES
3	Takali Nilwarne	Manwath	Dudhana	176, 177, 178, 180, 190, 191, 206/1, 206/2, 207, 210, 211	1.00	500	20	0.50	1767	YES	YES	YES
4	Sawangi Magar	Manwath	Dudhana	1, 2, 9, 13, 14, 171, 172	1.00	500	20	0.50	1767	YES	YES	YES
5	Kothala	Manwath	Dudhana	195, 196, 151, 197, 198	1.00	400	25	0.50	1413.42	YES	YES	YES
6	Shevadi Jahagir	Manwath	Dudhana	71 to 79, 81, 83, 84, 90	1.00	500	20	0.50	1767	YES	YES	YES
7	Rampuri Bu.	Manwath	Godavari	454, 455, 458, 459, 468, 474, 475, 478, 479, 480	4.50	900	50	1.00	7951	YES	YES	YES
8	Pardi Takli	Manwath	Godavari	35, 36, 45, 46, 47, 49, 51, 52, 53, 91, 92, 93, 94, 95, 96, 97	1.00	500	20	0.50	1767	YES	YES	YES
9	Nandgaon Khurd	Parbhani	Purna	362, 363, 368, 370, 371, 372	2.00	500	40	2.50	4028	YES	YES	YES
10	Sategaon	Purna	Godavari	48, 55, 54, 53, 52, 51	1.70	340	50	0.50	3003	YES	YES	YES
11	Devthana	Purna	Godavari	76, 167, 168, 169, 170	2.74	295	93	1.00	4847	YES	YES	YES
12	Mithapur	Purna	Godavari	15, 16, 17, 18, 19, 20	1.92	350	55	1.00	3401	YES	YES	YES
13	Dhangar Takali	Purna	Godavari	8, 13, 14, 15, 16, 17, 21, 22, 25, 26, 27, 28,	1.80	400	45	1.00	3180	YES	YES	YES

Executive Summary For 58 Sand ghats Parbhani

Sr.	Sand Ghat Name	Tahsil	River Name	Gut no.	Area (in ha)	Area in meter			Availabe sand in brass	GSDA feedback	Gram sabha resolution	Sand auction yes/no
				29, 31, 32, 36, 39, 40								
14	Kantheswar	Purna	Godavari	3, 186, 187, 217, 221	1.10	200	55	1.00	1554	YES	YES	YES
15	Wazur	Purna	Godavari	228, 232, 236, 242, 246	2.60	400	65	1.00	4593	YES	YES	YES
16	Kharbada	Purna	Godavari	246 to 250, 242, 240, 229, 234	2.43	375	65	1.00	3445	YES	YES	YES
17	Pimpalgaon Sarangi	Purna	Godavari	20, 21, 22, 117, 112, 111, 110, 108, 102, 101, 97	1.89	345	55	1.00	3352	YES	YES	YES
18	Nilā	Purna	Purna	81, 73, 6, 7, 8, 9, 10, 16, 17, 23, 24, 27	3.30	550	60	0.70	2915	YES	YES	YES
19	Kankheda	Purna	Purna	698, 699, 700, 715, 552, 543, 542, 541, 324, 329, 325, 330, 332, 333, 1, 8, 9	3.78	630	60	1.00	6678	YES	YES	YES
20	Mamdapur	Purna	Purna	14, 15, 16, 18, 19, 20, 21	1.30	260	50	1.00	2500	YES	YES	YES
21	Suki	Purna	Purna	155,156,192 to 197	3.60	800	45	1.00	3180	YES	YES	YES
22	Pimpalgaon Ba	Purna	Purna	144 to 149, 136, 133, 150 to 156, 192 to 196	4.00	800	50	1.00	7067	YES	YES	YES
23	Sandlapur	Purna	Purna	6, 7, 8, 9, 10	2.50	500	50	1.00	2208	YES	YES	YES
24	Sawali Bu	Jintur	Purna	62, 63, 64, 70, 71, 97	1.00	200	50	2.50	1766	YES	YES	YES
25	Nilaj	Jintur	Purna	16, 18, 20, 22, 25, 26	1.00	200	50	1.50	1766	YES	YES	YES
26	Ganeshnagar	Jintur	Purna	6, 47, 48, 49, 50, 51, 1	1.00	200	50	2.50	1766	YES	YES	YES
27	Wazar Bu	Jintur	Purna	466, 467, 468, 469, 470, 475, 476, 477, 480	1.25	250	50	2.00	30000	YES	YES	YES

Executive Summary For 58 Sand ghats Parbhani

Sr.	Sand Ghat Name	Tahsil	River Name	Gut no.	Area (in ha)	Area in meter			Availabe sand in brass	GSDA feedback	Gram sabha resolution	Sand auction yes/no
28	Pimpalgaon Gayake	Jintur	Dudhana	300, 301, 302, 303, 304, 313, 315, 316	1.10	440	25	2.50	1943	YES	YES	YES
29	Mahatpuri under Anandwadi	Gangakhed	Godavari	268, 270, 271, 272	4.20	700	60	0.50	6100	YES	YES	YES
30	Mahatpuri	Gangakhed	Godavari	4, 6, 7, 9, 10, 11, 12, 15, 16, 17, 18	2.06	430	48	0.50	3600	YES	YES	YES
31	Gaudgaon	Gangakhed	Godavari	55 to 59, 61	2.00	500	40	0.50	3534	YES	YES	YES
32	Chinchtakli	Gangakhed	Godavari	40 to 43, 50 to 52, 45, 46, 49	3.12	650	48	0.50	5512	YES	YES	YES
33	Muli	Gangakhed	Godavari	399, 401, 402, 405, 406, 409, 410, 413, 414, 415, 417, 423	1.22	305	40	0.50	2155	YES	YES	YES
34	Dharkhed	Gangakhed	Godavari	14 to 16, 8 to 11	1.66	415	40	0.50	2900	YES	YES	YES
35	Zola	Gangakhed	Godavari	9 to 12, 14, 15	1.83	457	40	0.50	3230	YES	YES	YES
36	Masla	Gangakhed	Godavari	51, 52, 56, 57, 64	2.97	675	44	0.50	5247	YES	YES	YES
37	Nagthana	Gangakhed	Godavari	110, 113, 115, 118, 123, 133, 134, 153, 155	2.78	565	49	0.50	4891	YES	YES	YES
38	Khadgaon	Selu	Dudhana	16, 17, 18	1.37	250	55	2.10	354	YES	YES	YES
39	Sonna	Selu	Dudhana	155, 158	1.20	300	40	2.15	531	YES	YES	YES
40	Digras Bu	Selu	Dudhana	1, 2, 3, 4, 5, 10, 15	1.00	500	20	2.10	833	YES	YES	YES
41	Ambegaon Di	Selu	Dudhana	83, 84, 87, 88, 89	1.00	250	40	2.30	1062	YES	YES	YES
42	Rahati	Palam	Godavari	22, 23, 24, 25, 26, 27, 28	2.00	500	50	2.50	4000	YES	YES	YES
43	Phala	Palam	Godavari	1, 81, 86, 88, 89, 110	1.08	360	30	2.50	10000	YES	YES	YES
44	Raorajur	Palam	Godavari	1, 9, 10, 11, 22, 23, 28, 29, 30	4.90	490	100	2.50	4300	YES	YES	YES

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Sr.	Sand Ghat Name	Tahsil	River Name	Gut no.	Area (in ha)	Area in meter			Availabe sand in brass	GSDA feedback	Gram sabha resolution	Sand auction yes/no
45	Dhanewadi	Palam	Godavari	23, 24, 29, 1, 2, 3, 4, 5	4.00	500	80	2.50	290	YES	YES	YES
46	Arkhed	Palam	Godavari	445, 446, 450, 452	4.00	400	100	2.50	4000	YES	YES	YES
47	Pharkanda	Palam	Godavari	29, 28, 27, 24, 23	1.50	500	30	2.50	5400	YES	YES	YES
48	Barbadi	Palam	Godavari	3, 4, 5	1.05	350	30	2.50	3100	YES	YES	YES
49	Sawangi Thadi	Palam	Godavari	1, 2, 7, 8, 22	1.60	400	40	2.50	7000	YES	YES	YES
50	Pimpalgaon Mu	Palam	Godavari	94, 95, 98	2.40	400	60	2.50	7000	YES	YES	YES
51	Sawangi Bhu	Palam	Godavari	100 to 104, 106 to 110, 119, 121 to 123, 132	5.00	500	100	2.50	6600	YES	YES	YES
52	Gunj	Palam	Godavari	44, 45, 50, 51, 52, 1, 9, 10, 11, 19, 27, 28	4.00	800	50	2.50	5000	YES	YES	YES
53	Bhogaon	Palam	Godavari	7, 9, 10, 11, 22, 23, 28, 29, 30	2.50	500	50	2.50	4000	YES	YES	YES
54	Dutka	Palam	Godavari	1, 2, 3, 5, 6, 7, 10, 11, 12, 16, 17, 31, 32, 35, 36	5.00	1000	50	2.50	8000	YES	YES	YES
55	Khadka / Mohala	Sonpeth	Godavari	4, 5, 6, 1, 23, 30, 19, 17, 16	3.00	750	40	2.75	7951	YES	YES	YES
56	Lasina	Sonpeth	Godavari	260, 262, 263, 264, 270, 271, 279, 275, 278, 279, 300, 1, 2, 5, 6, 7, 8, 13, 15, 37, 51, 52, 54	2.85	950	30	2.50	5035	YES	YES	YES
57	Thadipimpalgaon	Sonpeth	Godavari	1,6,15,17, 18,19,131, 132,133,134, 135,136,137,129, 130,126,158,141, 140,146	4.5	500	90	2.5	7951	YES	YES	YES
58	Dakupimpri	Pathari	Godavari	145,144,141,140	2.00	500	40	1.00	7500	YES	YES	YES

STATUS OF STATUARY CLEARANCES FOR SAND GHAT

The status of statutory clearance for sand ghat is shown below in Table No, 2

TABLE 2 Status of Statuary Clearances for Sand Ghat

Sr	Particulars	Details
1	Name and address of Allottee	District Mining Officer, Parbhani
2.	Status of lease	New
3.	Mineral for which the 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 Groundwater Surveys & Development Agency (GSDA)., 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	Up to one year from the date of allocation of the sand ghat.

MINING METHODOLOGY

Method of Mining

Opencast manual method without drilling & blasting will be used for sand mining. Labours with hand tools such as Spade, and Ghamelas will be used. Excavation of sand is done from dry riverbeds only.

The following process is followed for the estimation of sand in the sand ghat:

- 1) The demarcation and benchmarking of the sand ghat are done at 10m x 10m intervals.
- 2) Auger driller is used to find out the depth of sand in each grid.
- 3) Auger driller is used to create the holes in sand ghat using a 10mx10m grid pattern.
- 4) The depth of holes is measured by using a measuring tape.
- 5) After taking all the readings the average depth of sand ghat of the river is calculated in meters.

Machinery / Equipment required

Spades, Ghamelas, and Tractors with trolleys are the machinery/equipment used for sand mining.

Transportation

Transportation will be done by tractor trolley from the sand spot to the stockyard & to consumers.

Reclamation

The mined-out area will be replenished automatically after the monsoon. Plantation will be carried out along the riverbank and along the transport road.

ENVIRONMENTAL MANAGEMENT PLAN

TABLE 3-Anticipated Impact and Management Plan

Sr	Impact	Management Plan
1.	Air Pollution	<ul style="list-style-type: none">▪ Water Sprinkling will be done on approach roads up to 1.00km 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, and trolleys covered with tarpaulin sheets.▪ Tractor trolleys will not be overloaded.
2.	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 reduce noise generation.
3.	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 the mine site for labours.▪ Sand mining will be carried out in dry river beds only.▪ Waste material like polythene bags, jute bags, etc. will not be allowed to remain/spill in the

Sr	Impact	Management Plan
		riverbed.
4.	Land Environment	<ul style="list-style-type: none"> ▪ Minimum safe distance of 7.5m or 1/4th of the width of the river shall be kept from both sides of the bank to avoid erosion ▪ Depth of mining will be a maximum of 3m depending upon the availability of sand.
5.	Biological Environment	<ul style="list-style-type: none"> ▪ Since the mining activity will be done on a dry bed, hence there will not be any impact on the biological environment.
6.	Socio-Economic Environment	<ul style="list-style-type: none"> ▪ Employment generation due to this mining activity. Local villagers will be given priority for employment.
7.	Waste/Overburden Management	<ul style="list-style-type: none"> ▪ There will not be any generation of waste or overburden due to this mining activity.

OCCUPATION, HEALTH AND SERVICES

A summary of Occupational Health and Services is given below

1. Labour will be provided with Personal Protective Equipment (⁴PPE) like a safety helmet, ear plugs, earmuffs, gum boot, facemasks, etc.
2. Facemasks shall be provided for protection from dust.
3. Drinking water and toilet facility shall be provided to labours
4. First aid kit shall be made available in the mining area.
5. Mobile toilets shall be provided for the labours.
6. Dust bins shall be provided for waste collection and disposed of by the local authority

⁴ Personal Protective Equipment

PLANTATION PROGRAM

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

TABLE 4-Green belt details

Particular	Details
Location of greenbelt	Both sides of the approach road, On the riverbanks of the sand spot & nearby open areas. Haul Road outside the riverbed
No. of plants to be planted	2000 Per Hectare
Spacing of plants	2 m grid interval
Species selected	Native species

TABLE 5-List of tree species recommended for Plantation

Sr	Botanical name	Local name	Importance
1.	Azadirachta Indica	Neem	Neem oil & neem products
2.	Tectona Grandis	Teak	Antibacterial, Antifungal, Antiulcer
3.	Ficus Religiosa	Peepal	Medicinal use, Fruits & figs
5.	Bambusa Vulgaris	Bamboo	Anthelmintic Anti-inflammatory, Astringent Properties
6.	Madhuca Longifolia	Mahua	Acts as a Stimulant & cough relief

CONCLUSION

1. Environmental Clearance (⁵EC) is applied for 58 Sand spots located in Manwath, Parbhani, Purna, Jintur, Gangakhed, Selu, Palam, Pathri and Sonpeth Talukas in Parbhani District. Maharashtra having a lease area of less than 5ha, fall under the B2 category as per Ministry of Environment Forest and Climate Change (⁶MoEFCC) guidelines.
2. Empirical method of mining will control water from spreading on agricultural land and in nearby habitation creating a flood situation
3. Government will be benefitted in the form of royalty due to the mining activity
4. Business opportunities will be generated for local villagers due to mining
5. The proposed project will also make an optimistic contribution to the social infrastructure and overall development of the region.
6. All environmental issues like air, water, noise, soil, solid waste management, etc. will be dealt with as per the MoEFCC guidelines.

*** END ***

⁵ Environmental Clearance

⁶ Ministry of Environment Forest and Climate Change