

EXECUTIVE SUMMARY
ENVIRONMENT MANAGEMENT PLAN

for
SAND GHATS
at
**NASHIK DISTRICT, STATE
MAHARASHTRA**
for
**PUBLIC HEARING
FOR 13 SAND GHATS**

**PROJECT PROPONENT
DISTRICT MINING OFFICER,
COLLECTOR OFFICE, NASHIK**

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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

1. INTRODUCTION

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

A total of 13 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 13 Sand ghats located in Kalwan, Malegaon, Deola, Baglan Talukas in Nashik 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 Nashik by the Collector Office, Nashik.

¹ District Mining officer

² Groundwater Surveys & Development Agency

³ Maharashtra Pollution Control Board

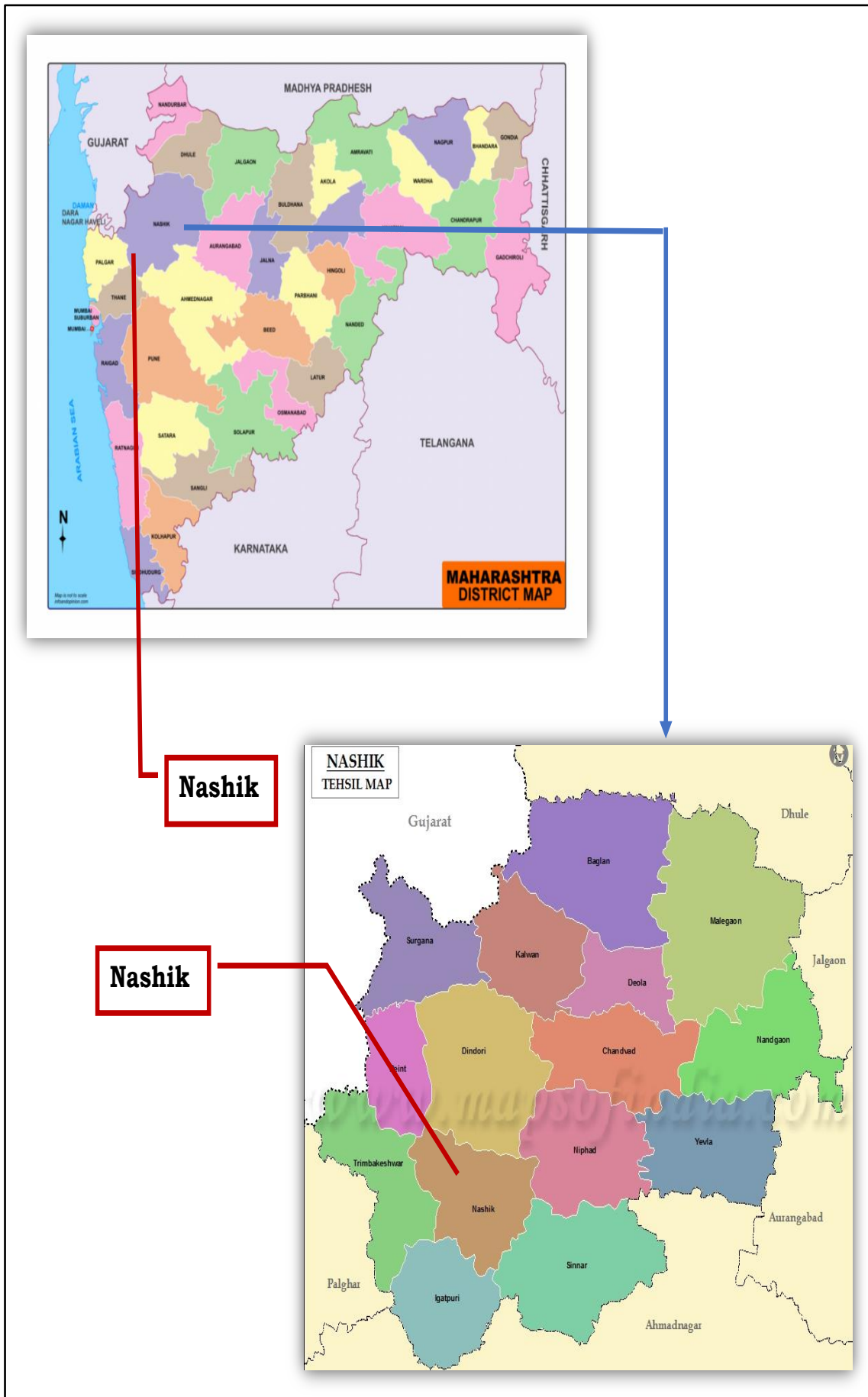


Fig 1 Location of Nashik

2. LIST OF SAND GHAT IN NASHIK

TABLE 1 - List of approved 13 sand ghats list.

Sr.	Sand Ghat Name	Tahsil	River Name	Gut no.	Area (in ha)	Area in meter			Available sand in brass	GSDA feedback	Gram sabha resolution	Sand auction yes/no	Upset Price
						Length	Width	Depth					
1	Nakode	Kalwan	Girana	Gut No. 187, 188, 199, 200, 201	1.08	180	60	0.3	1145	YES	YES	YES	
2	Kakane	Kalwan	Punand	Gut No. 161/A, 161/1/B, 162	1.02	410	25	0.3	1086	YES	YES	YES	
3	Aghar Bu. 1	Malegaon	Girana	Gut No. 518 to 559	1.37	473	29	1	4847	YES	YES	YES	
4	Patane	Malegaon	Girana	Gut No. 360 to 363 Aingadi Nala	1.06	183	55	1	3557	YES	YES	YES	
5	Chinchawad	Malegaon	Girana	Nimbola Shiv Gut No. 662 to 100m from Satbai dam excluding Gut No. 2 and from Gut No. 2. 100 m from Siddheshwar K T ware Dam except gut no. 662 to Gut No. 28	2.15	430	50	1	7597.17	YES	YES	YES	
6	Aghar khu.	Malegaon	Girana	Excluding 100m from K T ware dam Gut No. 753 to 221	2	400	50	1	7067.13	YES	YES	YES	

Executive Summary For 13 Sand ghats Nashik

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	Upset Price
				and Gut No. 221 to Gut No. 249									
7	Nardane	Malegaon	Girana	Gut No. 255, 249, 248, 247, 246, 227, 225, 224, 211, 207	1.085	310	35	1	3833	YES	YES	YES	
8	Mahalpatane	Deola	Girana	Gut No. 497, 502, 507, 509, 522, 557, 556	3	600	50	1	10601	YES	YES	YES	
9	Lohner-Sawaki	Deola	Girana	Lohner Gut No. 975, 973, 971, 958, 957, 955, 956 Sawaki Gut No. 292, 296	3.3	660	50	1	11661	YES	YES	YES	
10	Vithewadi-Sawaki	Deola	Girana	Vithewadi Gut No. 5, 10, 31, 61, 78, 86, 87, 88 Sawaki Gut No. 385, 369, 323, 391	2.75	550	50	1	9717	YES	YES	YES	
11	Bhaur	Deola	Girana	Gut No. 648, 650, 649/A, 649/B, 646, 658, 665	2.5	500	50	1	8834	YES	YES	YES	
12	Nampur	Baglan	Mosam	Near Nampur Mosam Riverbed South Side Group No. 442, 443, 451,	3.6	600	60	0.5	6360	YES	YES	YES	

Executive Summary For 13 Sand ghats Nashik

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	Upset Price
				452, 455, 456, 458, 459									
13	Dhandri Valu Spot No. 2	Baglan	Girana	Gut No. 9 to 12, 19 to 295, 34	2	400	50	2	14134	YES	YES	YES	

3. 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, Nashik
2.	Status of lease	New
3.	Mineral for which the lessee intends to mine	Riverbed 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.

4. 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.

5. 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"> ▪ Earmuffs 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 riverbeds only. ▪ Waste material like polythene bags, jute bags, etc. will not be

		allowed to remain/spill in the riverbed.
4.	Land Environment	<ul style="list-style-type: none">▪ Minimum safe distance of 7.5m 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 a maximum of 1.5m 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.

6. 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

7. 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	500 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

8. CONCLUSION

1. Environmental Clearance (⁵EC) is applied for 33 Sand spots located in Nashik, Kalwan, Malegaon, Deola, Baglan Talukas in Nashik 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