

**EXECUTIVE SUMMARY ON
DRAFT ENVIRONMENTAL MANAGEMENT PLAN**

FOR

SAND GHATS

AT

JALNA DISTRICT

STATE – MAHARASHTRA

FOR PUBLIC HEARING FOR 25 SAND GHATS

PROPONENT

DISTRICT MINING OFFICER, COLLECTOR OFFICE, JALNA

CONSULTANT

ENVIRO TECHNO CONSULT PRIVATE LIMITED

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

JANUARY 2022

Introduction :

District Collector, Jalna intends to auction sand ghats and appointed District Mining Officer Jalna as project proponent as per sand mining guidelines dated January 2022 and amendments if any . Total 25 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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| Details of Sand Ghats | | | | Dimensions of Sand Ghats | | | | | | | | | | | | | |
|-----------------------|--------|----------------------|---------------|---|-----------|----------|-------------------|-------------|-----------------------------|---------------------|----------------------|--------------------------------|-----------------|-----------------------------|--------------------------------------|---------------------------|-----------------------|
| Sr. No. | Taluka | Name of Sand Ghat | Name of River | Nearest Gut No. | Length m. | Width m. | Proposed Depth m. | Area in Ha. | Available sand for Scooping | Haulage Length (m.) | Haulage Width ₹ (m.) | No. of Labours required (Nos.) | No. of Tractors | Plantation along Bank(Nos.) | Plantation along Road/Haulage (Nos.) | Water Requirement cum/day | EMP Cost in Rs. Lakhs |
| 1 | Ambad | Chambharwadi | Dudhna | 12,13,14 | 350 | 30 | 0.60 | 1.05 | 2226 | 603 | 6 | 33 | 9 | 175 | 603 | 1.66 | 9.79 |
| 2 | Ambad | Zodegaon | Galhati | पूर्व बाजू- 13,17,20,22,23,24,25,27,28,30,31 पश्चिम बाजू- 96,95,94,93,92,26 | 1160 | 20 | 0.80 | 2.32 | 6558 | 345 | 6 | 56 | 25 | 580 | 345 | 2.0 | 10.94 |
| 3 | Ambad | Hasanapur | Galhati | 41,49,54,57,59,60,61,62,77,24,25,29, 30, 35,148,149 | 650 | 16 | 0.50 | 1.04 | 1837 | 674 | 6 | 28 | 7 | 325 | 674 | 1.56 | 10.65 |
| 4 | Ambad | Badhan Khu. | Dudhna | 102,104,105,107,110,111 ते 114,119 | 650 | 17 | 0.50 | 1.105 | 1952 | 813 | 6 | 28 | 7 | 325 | 813 | 1.56 | 11.55 |
| 5 | Ambad | GHungarde Hadgaon | Galhati | 213,214,216,217,218,219,228,229, 232,235,236,237 | 585 | 20 | 0.50 | 1.17 | 2067 | 1200 | 6 | 33 | 8 | 293 | 1200 | 1.66 | 14.45 |
| 6 | Ambad | Pithori Sirasgaon | Galhati | 47,50,51 | 865 | 22 | 0.50 | 1.90 | 3362 | 700 | 6 | 33 | 13 | 433 | 700 | 1.66 | 11.92 |
| 7 | Ambad | Dadhegaon | Galhati | 184,181,179,151 | 640 | 16 | 0.50 | 1.024 | 1809 | 440 | 6 | 28 | 7 | 320 | 440 | 1.56 | 10.11 |
| 8 | Mantha | Bhuvan | Purna | 1 | 300 | 35 | 1.00 | 1.05 | 3710 | 663 | 6 | 48 | 14 | 150 | 663 | 1.96 | 10.39 |
| 9 | Mantha | Devthana- Uswad-1 | Purna | देवठाणा- 276,275,273,272,265,264,263 उस्वद- 387 ते 391, 401 ते 403 | 350 | 50 | 0.80 | 1.75 | 4947 | 205 | 6 | 48 | 19 | 175 | 205 | 1.96 | 7.58 |
| 10 | Mantha | Devthana-Uswad -2 | Purna | देवठाणा- 253,252,251,218,217,216,215,214,213,212,210 उस्वद- 403,404,405,407, 1 ते 4 | 500 | 60 | 1.00 | 3.00 | 10600 | 554 | 6 | 56 | 41 | 250 | 554 | 2.0 | 11.63 |
| 11 | Mantha | Takalkhopa- Dudha | Purna | टाकळखोपा- 204, 235,236,237,238,242 दुधा- 2 ते 11 | 350 | 50 | 0.80 | 1.75 | 4946 | 1248 | 6 | 48 | 19 | 175 | 1248 | 1.96 | 14.90 |
| 12 | Mantha | Kanadi-Uswad-2 | Purna | कानडी- 47,41,40,39,23,22,21 उस्वद- 319 ते 323 | 350 | 60 | 1.00 | 2.10 | 7420 | 469 | 6 | 56 | 29 | 175 | 469 | 2.0 | 10.00 |
| 13 | Mantha | Kanadi- | Purna | कानडी- 67,66,65,64,63 | 400 | 60 | 1.00 | 2.40 | 8480 | 797 | 6 | 56 | 33 | 200 | 797 | 2.0 | 12.64 |

Executive summary Jalna Sand Ghats

| | | | | | | | | | | | | | | | | | |
|----|-------------|---------------------------------|----------|--|------|----|------|-------|-------|------|---|----|----|-----|------|------|-------|
| | | Limbkheda | | लिंबखेडा- 9 ते 20 | | | | | | | | | | | | | |
| 14 | Bhokardan | Merkheda | Purna | 30,31,32,33 | 261 | 42 | 0.50 | 1.09 | 1936 | 545 | 6 | 28 | 7 | 131 | 545 | 1.56 | 8.90 |
| 15 | Bhokardan | Deulgaon Tand | Girija | 68,69,70,71 | 360 | 35 | 0.50 | 1.26 | 2226 | 864 | 6 | 28 | 8 | 180 | 864 | 1.56 | 11.43 |
| 16 | Jafrabad | Takli | Kelna | 18, 19 | 610 | 18 | 0.50 | 1.098 | 1939 | 1248 | 6 | 28 | 7 | 305 | 1248 | 1.56 | 28.42 |
| 17 | Jafrabad | Garkheda | Purna | 120,121 | 350 | 30 | 0.80 | 1.05 | 2968 | 326 | 6 | 28 | 11 | 175 | 326 | 1.56 | 7.91 |
| 18 | Jafrabad | Ararkheda- Warkheda Viro | Kelna | आरदखेडा- 10 वरखेडा विरो- 179 | 410 | 25 | 0.50 | 1.02 | 1810 | 836 | 6 | 28 | 7 | 205 | 836 | 1.56 | 11.31 |
| 19 | Jafrabad | Borkhedi Gayaki- Garkheda | Purna | गारखेडा- 11 बोराखेडी गायकी- 172 ते 177, 170 | 710 | 15 | 0.80 | 1.06 | 3010 | 372 | 6 | 33 | 12 | 355 | 372 | 1.66 | 9.18 |
| 20 | Badnapur | Kadegaon | Lahuki | 180 ते 182, 140, 141, 143, 175, 155 ते 165,170, 171, 173, 174 | 1500 | 15 | 0.50 | 2.25 | 3975 | 167 | 6 | 33 | 15 | 750 | 167 | 1.66 | 9.89 |
| 21 | Badnapur | Dhasala | Dudhna | 484, 486, 473, 474, 476, 477 | 1100 | 10 | 0.50 | 1.10 | 1943 | 181 | 6 | 28 | 7 | 550 | 181 | 1.56 | 8.45 |
| 22 | Badnapur | Nanegaon | Sukana | 17 ते 20, 21,26,28 | 1000 | 10 | 0.50 | 1.00 | 1766 | 256 | 6 | 28 | 8 | 500 | 256 | 1.56 | 8.72 |
| 23 | Badnapur | Saigaon | Dudhna | 92 ते 94, 89,88,85,28,29,30,43 | 1000 | 30 | 0.50 | 3.00 | 5300 | 636 | 6 | 48 | 20 | 500 | 636 | 1.96 | 12.30 |
| 24 | Ghansawangi | Antarvali Tembhi | Narola | 04 ते 06, 92 ते 107,114,129,130,168,169,171,172,176,181 | 800 | 15 | 0.50 | 1.20 | 2120 | 744 | 6 | 33 | 8 | 400 | 744 | 1.66 | 11.79 |
| 25 | Ghansawangi | Siraswadi | Godawari | 401,403,settlement of Siraswadi | 810 | 50 | 1 | 4.05 | 14310 | 198 | 6 | 56 | 55 | 400 | 200 | 2.00 | 10.57 |

● **Status of Statutory Clearances for Sand Ghat**

| | |
|--|---|
| Name & Address of Allottee | District Mining Officer Jalna / Successful Bidder Jalna District, Jalna |
| Status of the lease | New, Individual/ Project Proponent/Succesful Bidder for auction of sand ghat by District Collector Jalna. |
| 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 28-56 labours per sand 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 | <ul style="list-style-type: none">● 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 | <ul style="list-style-type: none">● 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 | <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 |

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|---|-----------------|--|--|
| | | | 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 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 | <ul style="list-style-type: none"> • 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 |
|---|--|--|--|

• 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, subabhul, Karanj, Gulmohar etc will be planted.

- Successful Bidder/ Sand Ghat allottee will implement the Environmental Management Plan for the amount as per Table 1.0 on his own.

Successful Bidder/ Sand Ghat allottee 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 2022 and amendments.