

Proposed Aarvi Sand Ghat Project of Area 1.05 Hectare At Village Aarvi Tehsil-Gondpipri, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.05 ha at River Wardha adjoining Gut No. 171, 172/2, 161/1, 161/2, Mouza: Aarvi, Tehsil: Gondpipri, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 56M/09 and falls between the Latitude 19°58'16.42"N – 19°58'18.69"N and Longitude 79°39'56.67"E – 79°39'56.76"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 1855 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Aarvi sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	1.05 ha
2.	Proposed Production capacity	1855 Brass/Annum
C	Location Details	

Proposed Aarvi Sand Ghat Project of Area 1.05 Hectare At Village Aarvi Tehsil-Gondpipri, District-Chandrapur (Maharashtra)

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1.	Village	Aarvi		
2.	Tehsil	Gondpipri		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Sr. No	Latitude "N"	Longitude "E"
		1	19°37'43.00"N	79°29'30.21"E
		2	19°37'38.21"N	79°29'31.20"E
		3	19°37'38.01"N	79°29'30.20"E
		4	19°37'42.80"N	79°29'29.21"E
6.	Toposheet No.	56M/09		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Wardha		
2.	Nearest Town / City/Village	Nearest Village: Aarvi is at a distance of 0.5 Km towards South West from the Mining area.		
3.	Nearest Railway Station	Makudi Railway Station at a distance of 6.0 km in SW direction from Aarvi sand ghat Site.		
4.	Nearest Airport	Nagpur Airport 168 km away towards West.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 2883100/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.60 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	8 (Skilled and unskilled persons)		

Proposed Aarvi Sand Ghat Project of Area 1.05 Hectare At Village Aarvi Tehsil-Gondpipri, District-Chandrapur (Maharashtra)

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AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.10 KLD. It will be procured from the supply source of Village-Aarvi. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.40
2.	Dust Suppression / Water Sprinkling	0.70
3.	Green belt / Plantation	1.00
Total		2.10

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of hWardhan health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed.

Proposed Aarvi Sand Ghat Project of Area 1.05 Hectare At Village Aarvi Tehsil-Gondpipri, District-Chandrapur (Maharashtra)

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				<p>Proper maintenance of vehicles and their silencers to minimize vibration and sound.</p> <p>Ear muffs will be provided to workers.</p> <p>Development of effective greenbelt which shall help in noise attenuation.</p> <p>Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling.</p> <p>Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.</p>
4.	Land	Mining or extraction of sand and transportation	<p>Damage of river bank due to access ramps to river bed, may cause soil erosion.</p> <p>Destruction of river bank interland and ecological due to extraction of sand.</p> <p>Surface degradation due to road network</p>	<p>Safety distance of 3m or 1/4th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines").</p> <p>Mining will not exceeds beyond the allowed extraction capacity.</p> <p>Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.</p>
5.	Ecology	Extraction of sand and transportation	<p>Short-term disturbance of habitats</p> <p>disturbance of wildlife populations from noise</p> <p>Ecological impact surrounding habitat</p>	<p>The green belt/community forestry near river bank and approach road will restrict the fugitive emission.</p>
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	<p>Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.</p>

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

Proposed Aarvi Sand Ghat Project of Area 1.05 Hectare At Village Aarvi Tehsil-Gondpipri, District-Chandrapur (Maharashtra)

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As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	30,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	90,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	1,45,600/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 4,92,850/-

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1. EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 4.92 ha at River Venganga adjoining Gut No. 598, 601, 602, 605 to 612, Mouza: Aawalgaon, Tehsil: Bramhpuri, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 56M/09 and falls between the Latitude 19°58'16.42"N – 19°58'18.69"N and Longitude 79°39'56.67"E – 79°39'56.76"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 17385 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Aawalgaon sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	4.92 ha
2.	Proposed Production capacity	17385 Brass/Annum

Proposed Aawalgaon Sand Ghat Project of Area 4.92 Hectare At Village Aawalgaon Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)

Executive Summary

C		Location Details		
1.	Village	Aawalgaon		
2.	Tehsil	Bramhpuri		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	19°58'16.42"N	79°39'56.67"E
		2	19°58'16.16"N	79°39'39.48"E
		3	19°58'18.42"N	79°39'39.56"E
		4	19°58'18.69"N	79°39'56.76"E
6.	Toposheet No.	56M/09		
D		Environmental Settings of the Area		
1.	River / water body	The quarry area is itself part of water body i.e. River-Wainganga		
2.	Nearest Town / City/Village	Nearest Village: Aawalgaon is at a distance of 0.5 Km towards South East from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Tolewahi Railway Station at a distance of ~8.44 km in NW direction from Project Site.		
4.	Nearest Airport	Chandrapur Airport 47 km away towards West.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D		Cost Details		
1.	Total Upset Price	Rs. 27020300/-		
E		Requirements of The Project		
1.	Proposed Water Requirement	2.80 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	18 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.80 KLD. It will be procured from the supply source of Village- Yergaon. The detailed breakup of the water requirement is given below.

Proposed Aawalgaon Sand Ghat Project of Area 4.92 Hectare At Village Aawalgaon Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)

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Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.60
2.	Dust Suppression / Water Sprinkling	1.20
3.	Green belt / Plantation	1.00
Total		2.80

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of hVengangan health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to

Proposed Aawalgaon Sand Ghat Project of Area 4.92 Hectare At Village Aawalgaon Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)

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				<p>workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling. Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.</p>
4.	Land	Mining or extraction of sand and transportation	<p>Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network</p>	<p>Safety distance of 3m or 1/4th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.</p>
5.	Ecology	Extraction of sand and transportation	<p>Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat</p>	<p>The green belt/community forestry near river bank and approach road will restrict the fugitive emission.</p>
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	<p>Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.</p>

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of

**Proposed Aawalgaon Sand Ghat Project of Area 4.92 Hectare At Village Aawalgaon
Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)**

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ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	35,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	95,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	6,49,600/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,38,250/-
Total			Rs.10,07,850/-

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Proposed Ajaypur-Gondsawari Sand Ghat Project of Area 2.31 Hectare At Village- Ajaypur and Gondsawari, Tehsil- Chandrapur, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the proposed sand ghat over the area of 2.31 ha at River Andhari adjoining Kh. No. Ajaypur- 163, 164, 165, 168, 170 Gondsawari - 31, to 34, 36, 57, 58, 59, Mouza: Ajaypur and Gondsawari, Tehsil: Chandrapur, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 55P/12 and falls between the Latitude 20° 0'7.58"N – 20° 0'6.89"N and Longitude 79°31'12.78"E - 79°31'7.10"E The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 4081 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan. In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as Category B2 vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Ajaypur-Gondsawari sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	2.31 ha
2.	Proposed	4081 Brass/Annum

Proposed Ajaypur-Gondsawari Sand Ghat Project of Area 2.31 Hectare At Village- Ajaypur and Gondsawari, Tehsil- Chandrapur, District-Chandrapur (Maharashtra)

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	Production capacity																																																				
C	Location Details																																																				
1.	Village	Ajaypur - Gondsawari																																																			
2.	Tehsil	Chandrapur																																																			
3.	District	Chandrapur																																																			
4.	State	Maharashtra																																																			
5.	Latitude & Longitude	<table border="1"> <thead> <tr> <th>Pillar</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>B.P 1</td> <td>20° 0'7.58"N</td> <td>79°31'12.78"E</td> </tr> <tr> <td>B.P 2</td> <td>20° 0'9.65"N</td> <td>79°31'7.47"E</td> </tr> <tr> <td>B.P 3</td> <td>20° 0'11.28"N</td> <td>79°31'5.17"E</td> </tr> <tr> <td>B.P 4</td> <td>20° 0'14.46"N</td> <td>79°31'3.98"E</td> </tr> <tr> <td>B.P 5</td> <td>20° 0'18.17"N</td> <td>79°31'3.47"E</td> </tr> <tr> <td>B.P 6</td> <td>20° 0'21.67"N</td> <td>79°31'4.41"E</td> </tr> <tr> <td>B.P 7</td> <td>20° 0'32.94"N</td> <td>79°31'9.50"E</td> </tr> <tr> <td>B.P 8</td> <td>20° 0'34.86"N</td> <td>79°31'9.96"E</td> </tr> <tr> <td>B.P 9</td> <td>20° 0'34.99"N</td> <td>79°31'9.19"E</td> </tr> <tr> <td>B.P 10</td> <td>20° 0'33.04"N</td> <td>79°31'8.74"E</td> </tr> <tr> <td>B.P 11</td> <td>20° 0'21.84"N</td> <td>79°31'3.64"E</td> </tr> <tr> <td>B.P 12</td> <td>20° 0'18.03"N</td> <td>79°31'2.66"E</td> </tr> <tr> <td>B.P 13</td> <td>20° 0'14.19"N</td> <td>79°31'3.22"E</td> </tr> <tr> <td>B.P 14</td> <td>20° 0'10.72"N</td> <td>79°31'4.63"E</td> </tr> <tr> <td>B.P 15</td> <td>20° 0'9.04"N</td> <td>79°31'7.10"E</td> </tr> <tr> <td>B.P 16</td> <td>20° 0'6.89"N</td> <td>79°31'12.52"E</td> </tr> </tbody> </table>	Pillar	Latitude	Longitude	B.P 1	20° 0'7.58"N	79°31'12.78"E	B.P 2	20° 0'9.65"N	79°31'7.47"E	B.P 3	20° 0'11.28"N	79°31'5.17"E	B.P 4	20° 0'14.46"N	79°31'3.98"E	B.P 5	20° 0'18.17"N	79°31'3.47"E	B.P 6	20° 0'21.67"N	79°31'4.41"E	B.P 7	20° 0'32.94"N	79°31'9.50"E	B.P 8	20° 0'34.86"N	79°31'9.96"E	B.P 9	20° 0'34.99"N	79°31'9.19"E	B.P 10	20° 0'33.04"N	79°31'8.74"E	B.P 11	20° 0'21.84"N	79°31'3.64"E	B.P 12	20° 0'18.03"N	79°31'2.66"E	B.P 13	20° 0'14.19"N	79°31'3.22"E	B.P 14	20° 0'10.72"N	79°31'4.63"E	B.P 15	20° 0'9.04"N	79°31'7.10"E	B.P 16	20° 0'6.89"N	79°31'12.52"E
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Proposed Ajaypur-Gondsawari Sand Ghat Project of Area 2.31 Hectare At Village- Ajaypur and Gondsawari, Tehsil- Chandrapur, District-Chandrapur (Maharashtra)

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6.	Toposheet No.	55P/12
D	Environmental Settings of the Area	
1.	River / water body	The quarry area is itself part of water body i.e. River-Andhari
2.	Nearest Town / City/Village	Nearest Village: Gondsawari is at a distance of 1.20 Km towards NE from the Mining area.
3.	Nearest Railway Station	The nearest railway station is located Kelzar Railway Station, 5.20 Km away towards SE from ML
4.	Nearest Airport	Nagpur Airport, 130.50 km away towards North
5.	State Boundary	No State boundary passes through the project site
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.
D	Cost Details	
1.	Total Upset Price	Rs. 6130700/-
E	Requirements of The Project	
1.	Proposed Water Requirement	2.90 KLD
2.	Fuel requirement	N/A
3.	Man Power Requirement	18 (Skilled and unskilled persons)

LOCATION (MAP SHOWING GENERAL LOCATION, SPECIFIC LOCATION, AND PROJECT BOUNDARY & PROJECT SITE LAYOUT)

Proposed Ajaypur-Gondsawari Sand Ghat Project of Area 2.31 Hectare At Village- Ajaypur and Gondsawari, Tehsil- Chandrapur, District-Chandrapur (Maharashtra)

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Figure: Specific Location of Proposed Sand Ghat

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.90 KLD. It will be procured from the supply source of Village- Gondsawari. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.30
2.	Dust Suppression / Water Sprinkling	1.60
3.	Green belt / Plantation	1.00
Total		2.90

ENVIRONMENT MANAGEMENT PLAN

S. NO.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and

Proposed Ajaypur-Gondsawari Sand Ghat Project of Area 2.31 Hectare At Village- Ajaypur and Gondsawari, Tehsil- Chandrapur, District-Chandrapur (Maharashtra)

Executive Summary

			<p>may increase the flow velocity</p> <p>Change in surface water quality and ground water quality</p> <p>Waste water discharge</p>	<p>ground water regime.</p> <p>Mining activities will be restricted to 3.0 m depth, which will not cause much change in flow pattern of the river.</p> <p>Portable toilets will be used; hence no sewage/ liquid effluent will be generated.</p>
2.	Air	<p>Mining Activity, transportation of sand via vehicles or tractor movement</p> <p>Loading and unloading of mineral</p>	<p>Generation of fugitive dust may lead to Adverse effect of human health</p> <p>Stomatal index may be minimized due to dust deposit on leaf.</p>	<p>Green belt shall be developed within the premises as per CPCB guideline.</p> <p>Dust mask will be provided to the workers engaged.</p> <p>Regular water sprinkling on unpaved road.</p> <p>Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers.</p> <p>The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.</p>
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	<p>Periodical monitoring of noise will be done.</p> <p>No other equipments except the transportation vehicles will be allowed.</p> <p>Proper maintenance of vehicles and their silencers to minimize vibration and sound.</p> <p>Ear muffs will be provided to workers.</p>

Proposed Ajaypur-Gondsawari Sand Ghat Project of Area 2.31 Hectare At Village- Ajaypur and Gondsawari, Tehsil- Chandrapur, District-Chandrapur (Maharashtra)

Executive Summary

				<p>Development of effective greenbelt which shall help in noise attenuation.</p> <p>Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling.</p> <p>Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.</p>
4.	Land	Mining or extraction of sand and transportation	<p>Damage of river bank due to access ramps to river bed, may cause soil erosion.</p> <p>Destruction of river bank interland and ecological due to extraction of sand.</p> <p>Surface degradation due to road network</p>	<p>Safety distance of 3m or 1/4th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines").</p> <p>Mining will not exceeds beyond the allowed extraction capacity.</p> <p>Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.</p>
5.	Ecology	Extraction of sand and transportation	<p>Short-term disturbance of habitats disturbance of wildlife populations from noise</p> <p>Ecological impact surrounding habitat</p>	<p>The green belt/community forestry near river bank and approach road will restrict the fugitive emission.</p>
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	<p>Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.</p>

**Proposed Ajaypur-Gondsawari Sand Ghat Project of Area 2.31 Hectare At Village-
Ajaypur and Gondsawari, Tehsil- Chandrapur, District-Chandrapur (Maharashtra)**

Executive Summary

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is actioned and excavation took place successfully

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	35,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	1,60,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	3,04,800/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 7,27,250/-

Proposed Mul- Akapur Sand Ghat Project of Area 2.10 Hectare at Village Akapur, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 2.10 ha at River Uma adjoining Kh. No.Mul 241,240,239/1,239/2,233 Akapur-117,114,112,111, Mouza: Mul - Akapur, Tehsil: Mul, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141 (E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269 (E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought- building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 55 P/12 and falls between the Latitude 20°3'51.90"N - 20°3'50.47"N and Longitude 79°42'20.71"E - 79°42'19.31"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 3710 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Akapur sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	2.10 ha
2.	Proposed Production capacity	3710 Brass/Annum
C	Location Details	

Proposed Mul- Akapur Sand Ghat Project of Area 2.10 Hectare at Village Akapur, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Akapur		
2.	Tehsil	Mul		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	20° 3'56.05"N	79°42'15.37"E
		2	20° 3'43.15"N	79°42'30.90"E
		3	20° 3'42.32"N	79°42'30.08"E
		4	20° 3'55.18"N	79°42'14.62"E
6.	Toposheet No.	55 P/12		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Uma		
2.	Nearest Town / City/Village	Nearest Village: Akapur is at a distance of 2.6 Km towards South from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Mul Railway Station at a distance of 5.3 km in W direction from Project Site.		
4.	Nearest Airport	Chandrapur Airport 51.24 km away towards W.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 6009400/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.10 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	18 (Skilled and unskilled persons)		

LOCATION (MAP SHOWING GENERAL LOCATION, SPECIFIC LOCATION, AND PROJECT BOUNDARY & PROJECT SITE LAYOUT)



Figure: Specific Location of Proposed Sand Ghat

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.10 KLD. It will be procured from the supply source of Village- Akapur. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.60
2.	Dust Suppression / Water Sprinkling	0.50
3.	Green belt / Plantation	1.00
Total		2.10

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles	Generation of fugitive dust may lead to Adverse effect of human health	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged.

Proposed Mul- Akapur Sand Ghat Project of Area 2.10 Hectare at Village Akapur, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

		or tractor movement Loading and unloading of mineral	Stomatal index may be minimized due to dust deposit on leaf.	Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling. Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceed beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats	The green belt/community forestry near river bank and approach road will restrict the

Proposed Mul- Akapur Sand Ghat Project of Area 2.10 Hectare at Village Akapur, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

		on	disturbance of wildlife populations from noise Ecological impact surrounding habitat	fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019. As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	25,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	1,08,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	2,77,200/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 6,37,450/-

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Proposed Bakal Sand Ghat Project of Area 2.00 Hectare At Village Bakal Tehsil-Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 2.00 ha at River Uma adjoining Gut No. 506, to 509, 500, 501, Mouza: Bakal, Tehsil: Sindewahi District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 56M/09 and falls between the Latitude 19°58'16.42"N – 19°58'18.69"N and Longitude 79°39'56.67"E – 79°39'56.76"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 3534 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Bakal sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	2.00 ha
2.	Proposed Production capacity	3534 Brass/Annum
C	Location Details	

Proposed Bakal Sand Ghat Project of Area 2.00 Hectare At Village Bakal Tehsil-Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Bakal		
2.	Tehsil	Sindewahi		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	19°58'16.42"N	79°39'56.67"E
		2	19°58'16.16"N	79°39'39.48"E
		3	19°58'18.42"N	79°39'39.56"E
		4	19°58'18.69"N	79°39'56.76"E
6.	Toposheet No.	56M/09		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Uma		
2.	Nearest Town / City/Village	Nearest Village: Bakal is at a distance of 1.5 Km towards South East from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Sindewahi Railway Station at a distance of ~8.44 km in NW direction from Project Site.		
4.	Nearest Airport	Chandrapur Airport 87 km away towards West.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 5492700/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.50 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	18 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.50 KLD. It will be procured from the supply source of Village- Bakal. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.40
2.	Dust Suppression / Water Sprinkling	1.10
3.	Green belt / Plantation	1.00
Total		2.50

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged

Proposed Bakal Sand Ghat Project of Area 2.00 Hectare At Village Bakal Tehsil-Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

				idling. Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
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Proposed Bakal Sand Ghat Project of Area 2.00 Hectare At Village Bakal Tehsil-Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	25,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	60,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	2,64,000/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 5,76,250/-

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Proposed Bamarda Sand Ghat Project of Area 4.80 Hectare At Village Bamarda Tehsil- Warora, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 4.80 ha at River Vena adjoining Gut No. 58, 59, 62, 63, 64 Mouza: Bamarda, Tehsil: Warora, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 56M/09 and falls between the Latitude 19°58'16.42"N – 19°58'18.69"N and Longitude 79°39'56.67"E – 79°39'56.76"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 8481 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Bamarda sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	4.80 ha
2.	Proposed Production capacity	8481 Brass/Annum
C	Location Details	

Proposed Bamarda Sand Ghat Project of Area 4.80 Hectare At Village Bamarda Tehsil- Warora, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Bamarda		
2.	Tehsil	Warora		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	19°58'16.42"N	79°39'56.67"E
		2	19°58'16.16"N	79°39'39.48"E
		3	19°58'18.42"N	79°39'39.56"E
		4	19°58'18.69"N	79°39'56.76"E
6.	Toposheet No.	56M/09		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Vena		
2.	Nearest Town / City/Village	Nearest Village: Bamarda is at a distance of 0.5 Km towards South East from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Warora Railway Station at a distance of ~14.44 km in NW direction from Project Site.		
4.	Nearest Airport	Chandrapur Airport 47 km away towards West.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 13181500/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.80 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	18 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.80 KLD. It will be procured from the supply source of Village- Bamarda. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.60
2.	Dust Suppression / Water Sprinkling	1.20
3.	Green belt / Plantation	1.00
Total		2.80

Proposed Bamarda Sand Ghat Project of Area 4.80 Hectare At Village Bamarda Tehsil- Warora, District-Chandrapur (Maharashtra)

Executive Summary

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling.

Proposed Bamarda Sand Ghat Project of Area 4.80 Hectare At Village Bamarda Tehsil- Warora, District-Chandrapur (Maharashtra)

Executive Summary

				Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of	Environmental Baseline Monitoring	45,000/-

**Proposed Bamarda Sand Ghat Project of Area 4.80 Hectare At Village Bamarda
Tehsil- Warora, District-Chandrapur (Maharashtra)**

Executive Summary

	tractor trolley & transportation of mineral	(Air, Water, Noise etc.)	
		Water Sprinkling	30,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	85,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	6,33,600/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 9,75,850/-

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**Proposed Bhejgaon Sand Ghat Project of Area 4.20 Hectare at Village- Bhejgaon,
Tehsil- Mul, District-Chandrapur (Maharashtra)**

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 4.20 ha at River Uma adjoining Kh. No. 166 to 168, 177 to 180, Mouza: Bhejgaon, Tehsil: Mul, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141 (E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269 (E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought- building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 56M/9 and falls between the Latitude 19°58'47.18"N - 19°58'47.18"N and Longitude 79°40'31.39"E - 79°40'28.98"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 7420 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S.No.	Particulars	Details
A.	Nature of the Project	Proposed Bhejgaon Sand Ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	4.20 ha
2.	Proposed Production capacity	7420 Brass/Annum
C	Location Details	
1.	Village	Bhejgaon

Proposed Bhejgaon Sand Ghat Project of Area 4.20 Hectare at Village- Bhejgaon, Tehsil- Mul, District-Chandrapur (Maharashtra)

2.	Tehsil	Mul		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	19°58'47.18"N	79°40'31.39"E
		2	19°59'6.69"N	79°40'31.97"E
		3	19°59'6.68"N	79°40'29.57"E
4	19°58'47.18"N	79°40'28.98"E		
6.	Toposheet No.	56M/9		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Uma		
2.	Nearest Town / City/Village	Nearest Village: Bhejgaon is at a distance of 1.45 Km towards West from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Mul Railway Station at a distance of ~39.20 km in West direction from Project Site.		
4.	Nearest Airport	Chandrapur Airport 47.50 km away towards West.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 22921500/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.50 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	23 (Skilled and unskilled persons)		

LOCATION (MAP SHOWING GENERAL LOCATION, SPECIFIC LOCATION, AND PROJECT BOUNDARY & PROJECT SITE LAYOUT)



Figure: Specific Location of Proposed Sand Ghat

Proposed Bhejgaon Sand Ghat Project of Area 4.20 Hectare at Village- Bhejgaon, Tehsil- Mul, District-Chandrapur (Maharashtra)

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.50 KLD. It will be procured from the supply source of Village- Bhejgaon. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.20
2.	Dust Suppression / Water Sprinkling	1.30
3.	Green belt / Plantation	1.00
Total		2.50

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed.

Proposed Bhejgaon Sand Ghat Project of Area 4.20 Hectare at Village- Bhejgaon, Tehsil- Mul, District-Chandrapur (Maharashtra)

				<p>Proper maintenance of vehicles and their silencers to minimize vibration and sound.</p> <p>Ear muffs will be provided to workers.</p> <p>Development of effective greenbelt which shall help in noise attenuation.</p> <p>Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling.</p> <p>Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.</p>
4.	Land	Mining or extraction of sand and transportation	<p>Damage of river bank due to access ramps to river bed, may cause soil erosion.</p> <p>Destruction of river bank interland and ecological due to extraction of sand.</p> <p>Surface degradation due to road network</p>	<p>Safety distance of 3m or 1/4th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines").</p> <p>Mining will not exceeds beyond the allowed extraction capacity.</p> <p>Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.</p>
5.	Ecology	Extraction of sand and transportation	<p>Short-term disturbance of habitats</p> <p>disturbance of wildlife populations from noise</p> <p>Ecological impact surrounding habitat</p>	<p>The green belt/community forestry near river bank and approach road will restrict the fugitive emission.</p>
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	<p>Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.</p>

Proposed Bhejgaon Sand Ghat Project of Area 4.20 Hectare at Village- Bhejgaon, Tehsil- Mul, District-Chandrapur (Maharashtra)

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is actioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	40,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	1,28,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	3,96,000/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,27,250/-
Total			Rs. 7,81,050/-

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**Proposed Bodhegaon Sand Ghat Project of Area 2.00 Hectare At Village Bodhegaon
Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)**

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 2.00 ha at River Venganga adjoining Gut No. 139, 167, 168, 171, 172 Mouza: Bodhegaon, Tehsil: Bramhpuri, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 56M/09 and falls between the Latitude 19°58'16.42"N – 19°58'18.69"N and Longitude 79°39'56.67"E – 79°39'56.76"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 7067 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Bodhegaon sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	2.00 ha
2.	Proposed Production capacity	7067 Brass/Annum
C	Location Details	

Proposed Bodhegaon Sand Ghat Project of Area 2.00 Hectare At Village Bodhegaon Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Bodhegaon		
2.	Tehsil	Bramhpuri		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	19°58'16.42"N	79°39'56.67"E
		2	19°58'16.16"N	79°39'39.48"E
		3	19°58'18.42"N	79°39'39.56"E
		4	19°58'18.69"N	79°39'56.76"E
6.	Toposheet No.	56M/09		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Venganga		
2.	Nearest Town / City/Village	Nearest Village: Bodhegaon is at a distance of 0.5 Km towards South East from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Bramhpuri Railway Station at a distance of ~8.44 km in NW direction from Project Site.		
4.	Nearest Airport	Chandrapur Airport 47 km away towards West.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 10983800/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.80 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	18 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.80 KLD. It will be procured from the supply source of Village- Bodhegaon. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.60
2.	Dust Suppression / Water Sprinkling	1.20
3.	Green belt / Plantation	1.00
Total		2.80

Proposed Bodhegaon Sand Ghat Project of Area 2.00 Hectare At Village Bodhegaon Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)

Executive Summary

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of hVengangan health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling.

Proposed Bodhegaon Sand Ghat Project of Area 2.00 Hectare At Village Bodhegaon Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)

Executive Summary

				Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-

**Proposed Bodhegaon Sand Ghat Project of Area 2.00 Hectare At Village Bodhegaon
Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)**

Executive Summary

	tractor trolley & transportation of mineral	Water Sprinkling	25,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	80,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	2,64,000/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 5,96,250/-

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 4.0 ha at River Uma adjoining Kh. No. 289, 290, 292, 293, 300, 301, 303 Mouza: Borchandali, Tehsil: Mul, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141 (E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269 (E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought- building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 55P/12 and falls between the Latitude 20°01'56.95"N - 20°01'54.43"N and Longitude 79°41'13.24"E - 79°41'12.30"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 14134 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Borchandali sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	4.0 ha
2.	Proposed Production capacity	14134 Brass/Annum
C	Location Details	

Proposed Borchandali Sand Ghat Project of Area 4.0 Hectare at Village Borchandali, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Borchandali		
2.	Tehsil	Mul		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	20° 1'56.95"N	79°41'13.24"E
		2	20° 1'48.07"N	79°41'27.65"E
		3	20° 1'45.54"N	79°41'26.71"E
		4	20° 1'54.43"N	79°41'12.30"E
6.	Toposheet No.	55 P /12		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Uma		
2.	Nearest Town / City/Village	Nearest Village: Tada Tukum is at a distance of 1.50 Km towards SW from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Mul Railway Station at a distance of 4.20 km in NW direction from Project Site.		
4.	Nearest Airport	Chandrapur Airport 49.0 km away towards South West.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 21967500/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.50 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	18 (Skilled and unskilled persons)		

Proposed Borchandali Sand Ghat Project of Area 4.0 Hectare at Village Borchandali, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

LOCATION (MAP SHOWING GENERAL LOCATION, SPECIFIC LOCATION, AND PROJECT BOUNDARY & PROJECT SITE LAYOUT)



Figure: Specific Location of Proposed Sand Ghat

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.50 KLD. It will be procured from the supply source of Village- Tada Tukum. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.40
2.	Dust Suppression / Water Sprinkling	1.10
3.	Green belt / Plantation	1.00
Total		2.50

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportati	Generation of fugitive dust may lead to Adverse	Green belt shall be developed within the premises as per CPCB guideline.

Proposed Borchandali Sand Ghat Project of Area 4.0 Hectare at Village Borchandali, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

		on of sand via vehicles or tractor movement Loading and unloading of mineral	effect of human health Stomatal index may be minimized due to dust deposit on leaf.	Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling. Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction	Short-term	The green belt/community

Proposed Borchandali Sand Ghat Project of Area 4.0 Hectare at Village Borchandali, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

		of sand and transportation	disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	forestry near river bank and approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is actioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	25,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	3,20,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	5,94,000/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	10,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,38,250/-
Total			Rs. 11,37,250/-

**Proposed Chak Dahegaon-1 Sand Ghat Project of Area 2.00 Hectare At Village-
Chak Dahegaon-1, Tehsil- Mul, District-Chandrapur (Maharashtra)**

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.25 ha at River Uma River adjoining Gut. No. 101, 117 Mouza: Chak Dahegaon-1, Tehsil: Mul, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 56M/9/NE and falls between the Latitude 19°58'17.55"N – 19°58'28.05"N and Longitude 79°40'6.92"E - 79°40'20.04"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 3534 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Chak Dahegaon-1 sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	2.00 ha
2.	Proposed Production capacity	3534 Brass/Annum
C	Location Details	

**Proposed Chak Dahegaon-1 Sand Ghat Project of Area 2.00 Hectare At Village-
Chak Dahegaon-1, Tehsil- Mul, District-Chandrapur (Maharashtra)**

Executive Summary

1.	Village	Chak Dahegaon-1		
2.	Tehsil	Mul		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	19°58'17.55"N	79°40'6.92"E
		2	19°58'18.39"N	79°40'12.52"E
		3	19°58'27.36"N	79°40'20.94"E
		4	19°58'28.05"N	79°40'20.04"E
6.	Toposheet No.	56M/9/NE		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Uma River		
2.	Nearest Town / City/Village	Nearest Village: Chak Dahegaon-1 is at a distance of 0.50 Km towards South from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Mul Railway Station, 8.50 Km away towards East from ML		
4.	Nearest Airport	Chandrapur Airport 47.0 km away towards W.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 5666800/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.50 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	18 (Skilled and unskilled persons)		

LOCATION (MAP SHOWING GENERAL LOCATION, SPECIFIC LOCATION, AND PROJECT BOUNDARY & PROJECT SITE LAYOUT)

**Proposed Chak Dahegaon-1 Sand Ghat Project of Area 2.00 Hectare At Village-
Chak Dahegaon-1, Tehsil- Mul, District-Chandrapur (Maharashtra)**

Executive Summary



Figure: Specific Location of Proposed Sand Ghat

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.50 KLD. It will be procured from the supply source of Village- Chak Dahegaon-1. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.50
2.	Dust Suppression / Water Sprinkling	1.00
3.	Green belt / Plantation	1.00
Total		2.50

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index may be minimized	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road.

**Proposed Chak Dahegaon-1 Sand Ghat Project of Area 2.00 Hectare At Village-
Chak Dahegaon-1, Tehsil- Mul, District-Chandrapur (Maharashtra)**

Executive Summary

		Loading and unloading of mineral	due to dust deposit on leaf.	Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling. Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceed beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.

**Proposed Chak Dahegaon-1 Sand Ghat Project of Area 2.00 Hectare At Village-
Chak Dahegaon-1, Tehsil- Mul, District-Chandrapur (Maharashtra)**

Executive Summary

			from noise Ecological impact surrounding habitat	
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	30,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	10,000/-
2.	Road maintenance	Proper Maintenance of Haul road	1,08,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	3,96,000/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,38,250/-
Total			Rs. 7,67,250/-

**Proposed Chak Dahegaon-2 Sand Ghat Project of Area 1.25 Hectare At Village-
Chak Dahegaon-2, Tehsil- Mul, District-Chandrapur (Maharashtra)**

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.25 ha at River Uma River adjoining Gut. No. 171, 168 Mouza: Chak Dahegaon-2, Tehsil: Mul, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 55 N/16 and falls between the Latitude 20°8'37.03"N – 20°8'38.08"N and Longitude 78°58'11.90"E - 78°58'8.64"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 2208 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Chak Dahegaon-2 sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	1.25 ha
2.	Proposed Production capacity	2208 Brass/Annum
C	Location Details	

**Proposed Chak Dahegaon-2 Sand Ghat Project of Area 1.25 Hectare At Village-
Chak Dahegaon-2, Tehsil- Mul, District-Chandrapur (Maharashtra)**

Executive Summary

1.	Village	Chak Dahegaon-2		
2.	Tehsil	Mul		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	20° 8'37.03"N	78°58'11.90"E
		2	20° 8'30.70"N	78°58'10.35"E
		3	20° 8'31.75"N	78°58'7.07"E
		4	20° 8'38.08"N	78°58'8.64"E
6.	Toposheet No.	55 N/16		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Uma River		
2.	Nearest Town / City/Village	Nearest Village: Chak Dahegaon-2 is at a distance of 0.30 Km towards South from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Mul Railway Station, 7.50 Km away towards East from ML		
4.	Nearest Airport	Nagpur Airport, 111.50 km away towards North		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 3431800/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.50 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	18 (Skilled and unskilled persons)		

**Proposed Chak Dahegaon-2 Sand Ghat Project of Area 1.25 Hectare At Village-
Chak Dahegaon-2, Tehsil- Mul, District-Chandrapur (Maharashtra)**

Executive Summary

LOCATION (MAP SHOWING GENERAL LOCATION, SPECIFIC LOCATION, AND PROJECT BOUNDARY & PROJECT SITE LAYOUT)

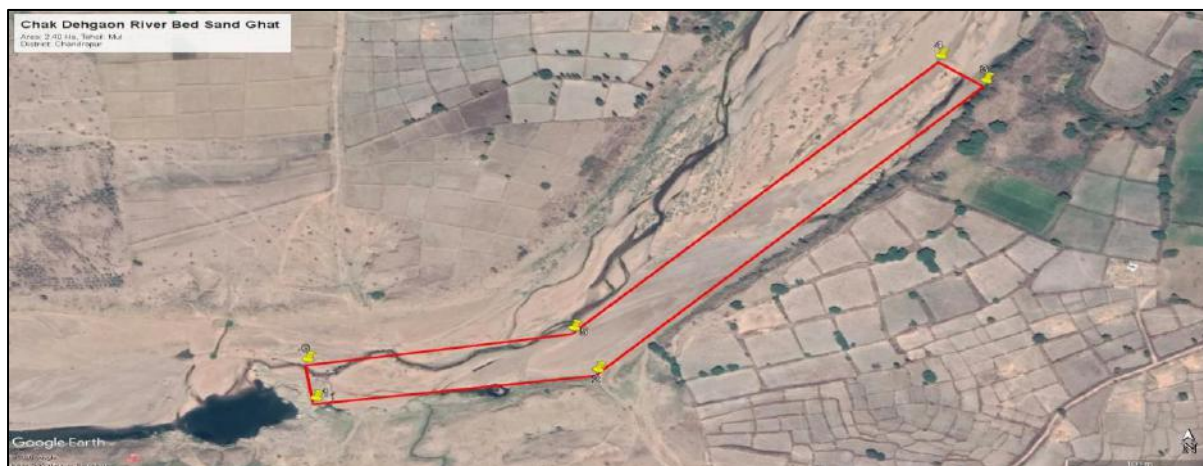


Figure: Specific Location of Proposed Sand Ghat

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.50 KLD. It will be procured from the supply source of Village- Chak Dahegaon-2. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.60
2.	Dust Suppression / Water Sprinkling	1.00
3.	Green belt / Plantation	1.00
Total		2.60

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity,	Generation of fugitive dust may	Green belt shall be developed within the premises as per CPCB

**Proposed Chak Dahegaon-2 Sand Ghat Project of Area 1.25 Hectare At Village-
Chak Dahegaon-2, Tehsil- Mul, District-Chandrapur (Maharashtra)**

Executive Summary

		transportation of sand via vehicles or tractor movement Loading and unloading of mineral	lead to Adverse effect of human health Stomatal index may be minimized due to dust deposit on leaf.	guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling. Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.

**Proposed Chak Dahegaon-2 Sand Ghat Project of Area 1.25 Hectare At Village-
Chak Dahegaon-2, Tehsil- Mul, District-Chandrapur (Maharashtra)**

Executive Summary

5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	35,500/-
		Sand carrying trolleys will be Covered with Tarpaulin	10000/-
2.	Road and River bank maintenance	Proper Maintenance of Haul road & river bank	80,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	1,58,400/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 5,10,250/-

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Proposed Chak Naleshwar Sand Ghat Project of Area 1.20 Hectare At Village- Chak Naleshwar, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.20 ha at River Andhari River adjoining Gut. No. 1, 33, 34, 35, 36, 72 Mouza: Chak Naleshwar, Tehsil: Mul, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 56M/9/NW and falls between the Latitude 19°58'11.84"N – 19°58'11.60"N and Longitude 79°37'22.26"E - 79°37'21.47"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 2120 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Chak Naleshwar sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	1.20 ha
2.	Proposed Production capacity	2120 Brass/Annum
C	Location Details	

Proposed Chak Naleshwar Sand Ghat Project of Area 1.20 Hectare At Village- Chak Naleshwar, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Chak Naleshwar		
2.	Tehsil	Mul		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	19°58'11.84"N	79°37'22.26"E
		2	19°57'57.69"N	79°37'26.01"E
		3	19°57'57.47"N	79°37'25.19"E
		4	19°58'11.60"N	79°37'21.47"E
6.	Toposheet No.	56M/9/NW		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Andhari		
2.	Nearest Town / City/Village	Nearest Village: Chak Naleshwar is at a distance of 1.0 Km towards East from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Mul Railway Station at a distance of 5.5 km in North direction from Project Site.		
4.	Nearest Airport	Chandrapur Airport 42.2 km away towards West.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 3295000/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.30 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	12 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.30 KLD. It will be procured from the supply source of Village- Chak Naleshwar. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.30
2.	Dust Suppression / Water Sprinkling	1.00
3.	Green belt / Plantation	1.00
Total		2.30

Proposed Chak Naleshwar Sand Ghat Project of Area 1.20 Hectare At Village- Chak Naleshwar, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling.

Proposed Chak Naleshwar Sand Ghat Project of Area 1.20 Hectare At Village- Chak Naleshwar, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

				Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
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Proposed Chak Naleshwar Sand Ghat Project of Area 1.20 Hectare At Village- Chak Naleshwar, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	25,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	90,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	1,58,400/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,38,250/-
Total			Rs. 5,01,650/-

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Proposed Chichgaon Sand Ghat Project of Area 3.15 Hectare At Village Chichgaon Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 3.15 ha at River Wainganga adjoining Gut No. 174, 175, 176, 204, 205, Mouza: Chichgaon, Tehsil: Bramhpuri, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 55P/15 and falls between the Latitude 20°27'06.15"N – 20°27'05.73"N and Longitude 79°56'18.48"E – 79°56'22.58"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 11131 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Chichgaon sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	3.15 ha
2.	Proposed Production capacity	11131 Brass/Annum
C	Location Details	

Proposed Chichgaon Sand Ghat Project of Area 3.15 Hectare At Village Chichgaon Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Chichgaon		
2.	Tehsil	Bramhpuri		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	20°27'06.15"N	79°56'18.48"E
		2	20°26'56.43"N	79°56'17.64"E
		3	20°26'56.01"N	79°56'21.75"E
		4	20°27'05.73"N	79°56'22.58"E
6.	Toposheet No.	55P/15		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Wainganga		
2.	Nearest Town / City/Village	Nearest Village: Chichgaon is about 0.50 km in South West direction from the Chichgaon sand ghat Site.		
3.	Nearest Railway Station	Brahmpuri Railway Station at a distance of ~ 19.0 km in NW direction from Chichgaon sand ghat Site.		
4.	Nearest Airport	Nagpur Airport 110 km away towards West.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 17300200/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.80 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	22 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.80 KLD. It will be procured from the supply source of Village- Chichgaon. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	1.10
2.	Dust Suppression / Water Sprinkling	0.70
3.	Green belt / Plantation	1.00
Total		2.80

Proposed Chichgaon Sand Ghat Project of Area 3.15 Hectare At Village Chichgaon Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)

Executive Summary

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of hVengangan health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling.

Proposed Chichgaon Sand Ghat Project of Area 3.15 Hectare At Village Chichgaon Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)

Executive Summary

				Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
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**Proposed Chichgaon Sand Ghat Project of Area 3.15 Hectare At Village Chichgaon
Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)**

Executive Summary

1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	25,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	80,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	4,16,000/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 7,48,250/-

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Proposed Chinchala Sand Ghat Project of Area 1.13 Hectare At Village- Chinchala, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.13 ha at River Uma River adjoining Gut. No. 438, 439, 442, 445, 454, 455 Mouza: Chinchala, Tehsil: Mul, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 55P/2/SE and falls between the Latitude 20°1'36.52"N – 20°1'35.73"N and Longitude 79°41'45.95"E - 79°41'45.09"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 2010 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Chinchala sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	1.13 ha
2.	Proposed Production capacity	2010 Brass/Annum
C	Location Details	

Proposed Chinchala Sand Ghat Project of Area 1.13 Hectare At Village- Chinchala, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Chinchala		
2.	Tehsil	Mul		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	20°1'36.52"N	79°41'45.95"E
		2	20°1'44.28"N	79°41'38.38"E
		3	20°1'43.54"N	79°41'37.49"E
		4	20°1'35.73"N	79°41'45.09"E
6.	Toposheet No.	55P/12		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Uma		
2.	Nearest Town / City/Village	Nearest Village: Tadala Tukam is at a distance of 2.10 Km towards West from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Mul Railway Station at a distance of ~ 4.80 km in NW direction from Project Site.		
4.	Nearest Airport	Chandrapur Airport 51.24 km away towards W.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 2507900/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.10 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	12 (Skilled and unskilled persons)		

LOCATION (MAP SHOWING GENERAL LOCATION, SPECIFIC LOCATION, AND PROJECT BOUNDARY & PROJECT SITE LAYOUT)



Figure: Specific Location of Proposed Sand Ghat

Proposed Chinchala Sand Ghat Project of Area 1.13 Hectare At Village- Chinchala, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.10 KLD. It will be procured from the supply source of Village- Chinchala. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.30
2.	Dust Suppression / Water Sprinkling	0.80
3.	Green belt / Plantation	1.00
Total		2.10

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed.

Proposed Chinchala Sand Ghat Project of Area 1.13 Hectare At Village- Chinchala, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

				<p>Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling. Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.</p>
4.	Land	Mining or extraction of sand and transportation	<p>Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network</p>	<p>Safety distance of 3m or 1/4th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.</p>
5.	Ecology	Extraction of sand and transportation	<p>Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat</p>	<p>The green belt/community forestry near river bank and approach road will restrict the fugitive emission.</p>
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	<p>Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.</p>

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

Proposed Chinchala Sand Ghat Project of Area 1.13 Hectare At Village- Chinchala, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	25,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road and River bank maintenance	Proper Maintenance of Haul road & river bank	3,20,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	5,94,000/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	10,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,38,250/-
	Total		Rs. 11,37,250/-

Proposed Chitegaon Sand Ghat Project of Area 1.80 Hectare At Village- Chitegaon, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.80 ha at River Uma River adjoining Gut. No. Chitegaon- 287, Morwahi-92, 93, 94 Mouza: Chitegaon, Tehsil: Mul, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 55P/12/SE and falls between the Latitude 20°5'45.07"N – 20°5'43.95"N and Longitude 79°41'2.85"E - 79°40'42.15"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 2544 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Chitegaon sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	1.80 ha
2.	Proposed Production capacity	2544 Brass/Annum
C	Location Details	

Proposed Chitegaon Sand Ghat Project of Area 1.80 Hectare At Village- Chitegaon, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Chitegaon		
2.	Tehsil	Mul		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	20°5'45.07"N	79°41'2.85"E
		2	20°5'43.25"N	79°40'48.84"E
		3	20°5'44.89"N	79°40'42.43"E
		4	20°5'43.95"N	79°40'42.15"E
6.	Toposheet No.	55P/12/SE		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Uma		
2.	Nearest Town / City/Village	Nearest Village: Morwahi Chak is at a distance of 1.5 Km towards North East from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Mul Railway Station at a distance of ~5.33 km in SW direction from Project Site.		
4.	Nearest Airport	Chandrapur Airport 49.50 km away towards SSW.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate)		
D	Cost Details			
1.	Total Upset Price	Rs. 11161600/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.00 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	13 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.00 KLD. It will be procured from the supply source of Village- Chitegaon. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.20
2.	Dust Suppression / Water Sprinkling	.80
3.	Green belt / Plantation	1.00
Total		2.00

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling.

Proposed Chitegaon Sand Ghat Project of Area 1.80 Hectare At Village- Chitegaon, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

				Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

Proposed Chitegaon Sand Ghat Project of Area 1.80 Hectare At Village- Chitegaon, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	40,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	80,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	2,37,600/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 5,84,850/-

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Proposed Gondeda Sand Ghat Project of Area 1.20 Hectare At Village- Gondeda, Tehsil- Chimur, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.20 ha at River Uma adjoining Kh. No. 300, 301 & 302 Mouza: Gondeda, Tehsil: Chimur, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 55P/07 and falls between the Latitude 20°24'31.18"N – 20°24'31.73"N and Longitude 79°28'46.82"E – 79°28'44.83"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 2120 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Gondeda sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	1.20 ha
2.	Proposed Production capacity	2120 Brass/Annum
C	Location Details	

Proposed Gondeda Sand Ghat Project of Area 1.20 Hectare At Village- Gondeda, Tehsil- Chimur, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Gondeda		
2.	Tehsil	Chimur		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	20°24'31.18"N	79°28'46.82"E
		2	20°24'37.56"N	79°28'48.16"E
		3	20°24'38.11"N	79°28'46.17"E
		4	20°24'31.73"N	79°28'44.83"E
6.	Toposheet No.	55P/07		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Uma		
2.	Nearest Town / City/Village	Nearest Village: Gondeda is at a distance of 0.90 Km towards SW from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Sindewahi Railway Station at a distance of ~22.45 km in South East direction from Project Site.		
4.	Nearest Airport	Nagpur Airport 87.50 km away towards NNW		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Project Cost	Rs. 3635600/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.10 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	15 (Skilled and unskilled persons)		

LOCATION (MAP SHOWING GENERAL LOCATION, SPECIFIC LOCATION, AND PROJECT BOUNDARY & PROJECT SITE LAYOUT)



Figure: Specific Location of Proposed Sand Ghat

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.10 KLD. It will be procured from the supply source of Village- Gondeda. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.30
2.	Dust Suppression / Water Sprinkling	0.80
3.	Green belt / Plantation	1.00
Total		2.10

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be

Proposed Gondeda Sand Ghat Project of Area 1.20 Hectare At Village- Gondeda, Tehsil- Chimur, District-Chandrapur (Maharashtra)

Executive Summary

				<p>allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling. Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.</p>
4.	Land	Mining or extraction of sand and transportation	<p>Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network</p>	<p>Safety distance of 3m or 1/4th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.</p>
5.	Ecology	Extraction of sand and transportation	<p>Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat</p>	<p>The green belt/community forestry near river bank and approach road will restrict the fugitive emission.</p>
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	<p>Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.</p>

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

Proposed Gondeda Sand Ghat Project of Area 1.20 Hectare At Village- Gondeda, Tehsil- Chimur, District-Chandrapur (Maharashtra)

Executive Summary

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is actioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	45,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	10000/-
2.	Road maintenance	Proper Maintenance of Haul road	1,20,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	1,58,400/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	10,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 5,25,650/-

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Proposed Halada-2 Sand Ghat Project of Area 2.40 Hectare At Village Halada-2 Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 2.40 ha at River Wainganga adjoining Gut No. 909, 910, 912, 913 Mouza: Halada-2, Tehsil: Bramhpuri, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 55P/15 and falls between the Latitude 20°20'38.75"N – 20°20'36.61"N and Longitude 79°58'03.06"E – 79°58'07.70"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 8481 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Halada-2 sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	2.40 ha
2.	Proposed Production capacity	8481 Brass/Annum
C	Location Details	

Proposed Halada-2 Sand Ghat Project of Area 2.40 Hectare At Village Halada-2 Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Halada-2		
2.	Tehsil	Bramhpuri		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	20°20'38.75"N	79°58'03.06"E
		2	20°20'47.96"N	79°58'08.54"E
		3	20°20'45.83"N	79°58'13.19"E
		4	20°20'36.61"N	79°58'07.70"E
6.	Toposheet No.	55P/15		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Wainganga		
2.	Nearest Town / City/Village	Nearest Village: Village Halda is about 3.0 km in NW direction from the Halda sand ghat Site.		
3.	Nearest Railway Station	Talodhi Railway Station at a distance of ~ 30.0 km in NW direction from Halda sand ghat Site.		
4.	Nearest Airport	Nagpur Airport 110 km away towards West.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 13181500/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	4.50 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	18 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 4.50 KLD. It will be procured from the supply source of Village- Halada-2. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.90
2.	Dust Suppression / Water Sprinkling	2.60
3.	Green belt / Plantation	1.00
Total		4.50

Proposed Halada-2 Sand Ghat Project of Area 2.40 Hectare At Village Halada-2 Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)

Executive Summary

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of hVengangan health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling.

Proposed Halada-2 Sand Ghat Project of Area 2.40 Hectare At Village Halada-2 Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)

Executive Summary

				Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
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**Proposed Halada-2 Sand Ghat Project of Area 2.40 Hectare At Village Halada-2
Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)**

Executive Summary

1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	40,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	2,50,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	3,16,800/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 8,34,050/-

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Proposed Hivira-1 Sand Ghat Project of Area 1.05 Hectare At Village Hivira-1 Tehsil-Gondpipri, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.05 ha at River Hivira Nallah adjoining Gut No. 297, 298, 306, 307/5, 237/1, 236/1, 236/2, Mouza: Hivira-1, Tehsil: Gondpipri, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 56M/10 and falls between the Latitude 19°35'16.07"N – 19°35'16.17"N and Longitude 79°38'50.17"E – 79°38'51.20"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 1855 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Hivira-1 sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	1.05 ha
2.	Proposed Production capacity	1855 Brass/Annum
C	Location Details	

Proposed Hivira-1 Sand Ghat Project of Area 1.05 Hectare At Village Hivira-1 Tehsil-Gondpipri, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Hivira-1		
2.	Tehsil	Gondpipri		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	19°35'16.07"N	79°38'50.17"E
		2	19°35'24.58"N	79°38'47.88"E
		3	19°35'24.68"N	79°38'48.92"E
		4	19°35'16.17"N	79°38'51.20"E
6.	Toposheet No.	56M/10		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Hivira Nallah		
2.	Nearest Town / City/Village	Nearest Village: Hiwara-1 village is about 2.0 km in West direction from the Hiwara-1 sand ghat Site.		
3.	Nearest Railway Station	Shirpur Railway Station at a distance of ~ 16.0 km in SW direction from Hiwara-1 sand ghat Site.		
4.	Nearest Airport	Morwa Airport 64 km away towards West.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 10983800/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.35 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	8 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.35 KLD. It will be procured from the supply source of Village- Hivira-1. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.35
2.	Dust Suppression / Water Sprinkling	1.00
3.	Green belt / Plantation	1.00
Total		2.35

Proposed Hivira-1 Sand Ghat Project of Area 1.05 Hectare At Village Hivira-1 Tehsil-Gondpipri, District-Chandrapur (Maharashtra)

Executive Summary

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of hHivira Nallan health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling.

Proposed Hivira-1 Sand Ghat Project of Area 1.05 Hectare At Village Hivira-1 Tehsil-Gondpipri, District-Chandrapur (Maharashtra)

Executive Summary

				Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
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Proposed Hivira-1 Sand Ghat Project of Area 1.05 Hectare At Village Hivira-1 Tehsil-Gondpipri, District-Chandrapur (Maharashtra)

Executive Summary

1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	30,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road and River bank maintenance	Proper Maintenance of Haul road & river bank	1,80,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	1,38,800/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 5,76,050/-

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Proposed Kadamgaon ganna Sand Ghat Project of Area 1.05 Hectare At Village Kadamgaon ganna, Tehsil- Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.05 ha at River Uma adjoining Gut No. 190, 191, 192, Mouza: Kadamgaon ganna, Tehsil: Sindewahi District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 55P/12 and falls between the Latitude 20°14'41.56"N– 20°14'42.15"N and Longitude 79°37'50.48"E – 79°37'51.74"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 1855 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Kadamgaon ganna sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	1.05 ha
2.	Proposed Production capacity	1855 Brass/Annum
C	Location Details	

Proposed Kadamgaon ganna Sand Ghat Project of Area 1.05 Hectare At Village Kadamgaon ganna, Tehsil- Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Kadamgaon ganna		
2.	Tehsil	Sindewahi		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	20°14'41.56"N	79°37'50.48"E
		2	20°14'38.62"N	79°37'51.89"E
		3	20°14'39.18"N	79°37'53.17"E
		4	20°14'42.15"N	79°37'51.74"E
6.	Toposheet No.	55P/12		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Uma		
2.	Nearest Town / City/Village	Nearest Village: Kadamgaon ganna is at a distance of 1.0 Km towards South West from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Sindewahi Railway Station at a distance of ~7 km in NE direction from Project Site.		
4.	Nearest Airport	Morwa Airport 48 km away towards West.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 2883100/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.50 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	8 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.50 KLD. It will be procured from the supply source of Village- Kadamgaon ganna. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.50
2.	Dust Suppression / Water Sprinkling	1.10
3.	Green belt / Plantation	1.00
Total		2.50

Proposed Kadamgaon ganna Sand Ghat Project of Area 1.05 Hectare At Village Kadamgaon ganna, Tehsil- Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged

Proposed Kadamgaon ganna Sand Ghat Project of Area 1.05 Hectare At Village Kadamgaon ganna, Tehsil- Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

				<p>idling. Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.</p>
4.	Land	Mining or extraction of sand and transportation	<p>Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network</p>	<p>Safety distance of 3m or 1/4th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.</p>
5.	Ecology	Extraction of sand and transportation	<p>Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat</p>	<p>The green belt/community forestry near river bank and approach road will restrict the fugitive emission.</p>
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	<p>Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.</p>

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

Proposed Kadamgaon ganna Sand Ghat Project of Area 1.05 Hectare At Village Kadamgaon ganna, Tehsil- Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	25,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road and River bank maintenance	Proper Maintenance of Haul road & river bank	80,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	1,38,800/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,38,250/-
Total			Rs. 4,72,050/-

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Proposed Kadamgaon tukam Sand Ghat Project of Area 1.05 Hectare At Village Kadamgaon tukam, Tehsil- Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.05 ha at River Uma adjoining Gut No. 142, 145, 146, 246, 247/1, 247/2, Mouza: Kadamgaon tukam, Tehsil: Sindewahi District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 55P/12 and falls between the Latitude 20°14'41.71"N – 20°14'42.17"N and Longitude 79°37'50.50"E – 79°37'51.79"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 1855 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Kadamgaon tukam sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	1.05 ha
2.	Proposed Production capacity	1855 Brass/Annum
C	Location Details	
1.	Village	Kadamgaon tukam
2.	Tehsil	Sindewahi

Proposed Kadamgaon tukam Sand Ghat Project of Area 1.05 Hectare At Village Kadamgaon tukam, Tehsil- Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	20°14'41.71"N	79°37'50.50"E
		2	20°14'38.75"N	79°37'51.93"E
		3	20°14'39.21"N	79°37'53.21"E
		4	20°14'42.17"N	79°37'51.79"E
6.	Toposheet No.	55P/12		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Uma		
2.	Nearest Town / City/Village	Nearest Village: Kalamgaon Tukum village is about 1.00 km in SW direction from the Kalamgaon Tukum sand ghat Site.		
3.	Nearest Railway Station	The nearest railway station is located Sindewahi Railway Station at a distance of ~7.0 km in NE direction from Project Site.		
4.	Nearest Airport	Morwa Airport 52 km away towards South.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 2883100/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.50 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	8 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.50 KLD. It will be procured from the supply source of Village- Kadamgaon tukam. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.40
2.	Dust Suppression / Water Sprinkling	1.10
3.	Green belt / Plantation	1.00
Total		2.50

Proposed Kadamgaon tukam Sand Ghat Project of Area 1.05 Hectare At Village Kadamgaon tukam, Tehsil- Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling.

Proposed Kadamgaon tukam Sand Ghat Project of Area 1.05 Hectare At Village Kadamgaon tukam, Tehsil- Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

				Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

Proposed Kadamgaon tukam Sand Ghat Project of Area 1.05 Hectare At Village Kadamgaon tukam, Tehsil- Sindewahi, District-Chandrapur (Maharashtra)

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FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	25,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road and River bank maintenance	Proper Maintenance of Haul road & river bank	80,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	1,38,800/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,38,250/-
Total			Rs. 4,72,050/-

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Proposed Kag Sand Ghat Project of Area 1.00 Hectare At Village- Kag, Tehsil- Chimur, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.00 ha at River Uma adjoining Gut. No. 80, 81, 82, 83, 84 Mouza: Kag, Tehsil: Chimur, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 55P/7/NE and falls between the Latitude 20°28'15.88"N – 20°28'18.59"N and Longitude 79°24'33.84"E - 79°24'27.43"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 1767 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Kag sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	1.00 ha
2.	Proposed Production capacity	1767 Brass/Annum
C	Location Details	

Proposed Kag Sand Ghat Project of Area 1.00 Hectare At Village- Kag, Tehsil- Chimur, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Kag		
2.	Tehsil	Chimur		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	20°28'15.88"N	79°24'33.84"E
		2	20°28'14.43"N	79°24'33.17"E
		3	20°28'17.05"N	79°24'26.85"E
		4	20°28'18.59"N	79°24'27.43"E
6.	Toposheet No.	55P/7/NE		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Uma		
2.	Nearest Town / City/Village	Nearest Village: Kag is at a distance of 0.30 Km towards South from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Chimur Railway Station, 7.50 Km away towards East from ML		
4.	Nearest Airport	Nagpur Airport, 111.50 km away towards North		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 3936200/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.25 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	12 (Skilled and unskilled persons)		

LOCATION (MAP SHOWING GENERAL LOCATION, SPECIFIC LOCATION, AND PROJECT BOUNDARY & PROJECT SITE LAYOUT)



Figure: Specific Location of Proposed Sand Ghat

Proposed Kag Sand Ghat Project of Area 1.00 Hectare At Village- Kag, Tehsil-Chimur, District-Chandrapur (Maharashtra)

Executive Summary

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.25 KLD. It will be procured from the supply source of Village- Kag. The detailed breakup of the water requirement is given below.

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.40
2.	Dust Suppression / Water Sprinkling	0.85
3.	Green belt / Plantation	1.00
Total		2.25

Table: Water Demand

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles

Proposed Kag Sand Ghat Project of Area 1.00 Hectare At Village- Kag, Tehsil- Chimur, District-Chandrapur (Maharashtra)

Executive Summary

				<p>and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling. Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.</p>
4.	Land	Mining or extraction of sand and transportation	<p>Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network</p>	<p>Safety distance of 3m or 1/4th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceed beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.</p>
5.	Ecology	Extraction of sand and transportation	<p>Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat</p>	<p>The green belt/community forestry near river bank and approach road will restrict the fugitive emission.</p>
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	<p>Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.</p>

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the

**Proposed Kag Sand Ghat Project of Area 1.00 Hectare At Village- Kag, Tehsil-
Chimur, District-Chandrapur (Maharashtra)**

Executive Summary

concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is actioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	40,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	60,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	1,32,000/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 4,59,250/-

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Proposed Karanji Sand Ghat Project of Area 2.10 Hectare At Village Karanji Tehsil-Warora, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 2.10 ha at River Wardha adjoining Gut No. 145, 146, 147, 148, 149 Mouza: Karanji, Tehsil: Warora, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 55L/16/NE and falls between the Latitude 20°10'0.10"N – 20° 9'57.91"N and Longitude 78°57'57.27"E – 78°57'56.56"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 3710 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Karanji sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	2.10 ha
2.	Proposed Production capacity	3710 Brass/Annum
C	Location Details	

Proposed Karanji Sand Ghat Project of Area 2.10 Hectare At Village Karanji Tehsil-Warora, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Karanji		
2.	Tehsil	Warora		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	20°10'0.10"N	78°57'57.27"E
		2	20°10'1.74"N	78°57'47.07"E
		3	20° 9'59.51"N	78°57'46.36"E
		4	20° 9'57.91"N	78°57'56.56"E
6.	Toposheet No.	55L/16/NE		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Wardha		
2.	Nearest Town / City/Village	Nearest Village: Karanji is at a distance of 2.00 Km towards North from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Marji Khadan Railway Station, 8.29 Km away towards SSE Direction		
4.	Nearest Airport	Chandrapur Morwa Airport, 32.90 km away towards SSE		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 4444900/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.20 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	18 (Skilled and unskilled persons)		

LOCATION (MAP SHOWING GENERAL LOCATION, SPECIFIC LOCATION, AND PROJECT BOUNDARY & PROJECT SITE LAYOUT)



Figure: Specific Location of Proposed Sand Ghat

Proposed Karanji Sand Ghat Project of Area 2.10 Hectare At Village Karanji Tehsil-Warora, District-Chandrapur (Maharashtra)

Executive Summary

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.20 KLD. It will be procured from the supply source of Village- Karanji. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.40
2.	Dust Suppression / Water Sprinkling	0.80
3.	Green belt / Plantation	1.00
Total		2.20

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed.

Proposed Karanji Sand Ghat Project of Area 2.10 Hectare At Village Karanji Tehsil-Warora, District-Chandrapur (Maharashtra)

Executive Summary

				<p>Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling. Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.</p>
4.	Land	Mining or extraction of sand and transportation	<p>Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network</p>	<p>Safety distance of 3m or 1/4th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.</p>
5.	Ecology	Extraction of sand and transportation	<p>Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat</p>	<p>The green belt/community forestry near river bank and approach road will restrict the fugitive emission.</p>
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	<p>Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.</p>

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

Proposed Karanji Sand Ghat Project of Area 2.10 Hectare At Village Karanji Tehsil-Warora, District-Chandrapur (Maharashtra)

Executive Summary

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	40,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	1,20,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	2,77,200/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 6,64,450/-

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Proposed Khambala Sand Ghat Project of Area 1.05 Hectare At Village- Khambala, Tehsil- Rajura, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.05 ha at Khambala Nallah adjoining Kh. No. 34, 35, 36 Mouza: Khambala, Tehsil: Rajura, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 56 M/9 and falls between the Latitude 19°39'26.11"N - 19°39'26.26"N and Longitude 79°24'54.44"E - 79°24'53.95"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 1113 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Khambala sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	1.05 ha
2.	Proposed Production capacity	1113 Brass/Annum
C	Location Details	

Proposed Khambala Sand Ghat Project of Area 1.05 Hectare At Village- Khambala, Tehsil- Rajura, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Khambala																																	
2.	Tehsil	Rajura																																	
3.	District	Chandrapur																																	
4.	State	Maharashtra																																	
5.	Latitude & Longitude	<table border="1"> <thead> <tr> <th>Pillar</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>19°39'26.11"N</td> <td>79°24'54.44"E</td> </tr> <tr> <td>2</td> <td>19°39'20.43"N</td> <td>79°24'52.09"E</td> </tr> <tr> <td>3</td> <td>19°39'16.67"N</td> <td>79°24'52.03"E</td> </tr> <tr> <td>4</td> <td>19°39'13.41"N</td> <td>79°24'56.63"E</td> </tr> <tr> <td>5</td> <td>19°39'6.94"N</td> <td>79°25'0.55"E</td> </tr> <tr> <td>6</td> <td>19°39'6.70"N</td> <td>79°25'0.10"E</td> </tr> <tr> <td>7</td> <td>19°39'13.10"N</td> <td>79°24'56.22"E</td> </tr> <tr> <td>8</td> <td>19°39'16.43"N</td> <td>79°24'51.56"</td> </tr> <tr> <td>9</td> <td>19°39'20.47"N</td> <td>79°24'51.55"E</td> </tr> <tr> <td>10</td> <td>19°39'26.26"N</td> <td>79°24'53.95"E</td> </tr> </tbody> </table>	Pillar	Latitude	Longitude	1	19°39'26.11"N	79°24'54.44"E	2	19°39'20.43"N	79°24'52.09"E	3	19°39'16.67"N	79°24'52.03"E	4	19°39'13.41"N	79°24'56.63"E	5	19°39'6.94"N	79°25'0.55"E	6	19°39'6.70"N	79°25'0.10"E	7	19°39'13.10"N	79°24'56.22"E	8	19°39'16.43"N	79°24'51.56"	9	19°39'20.47"N	79°24'51.55"E	10	19°39'26.26"N	79°24'53.95"E
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6.	Toposheet No.	56 M/9																																	
D	Environmental Settings of the Area																																		
1.	River / water body	The quarry area is itself part of water body i.e. Khambala Nallah																																	
2.	Nearest Town / City/Village	Nearest Village: Khambala is at a distance of 1.55 Km towards NNE from the Mining area.																																	
3.	Nearest Railway Station	The nearest railway station is located Wirur Railway Station, 1.85 Km away towards SE from ML																																	
4.	Nearest Airport	Nagpur Airport, 168.50 km away towards NNW.																																	
5.	State Boundary	No State boundary passes through the project site																																	
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.																																	
D	Cost Details																																		
1.	Total Upset Price	Rs. 1327500/-																																	
E	Requirements of The Project																																		
1.	Proposed Water Requirement	2.80 KLD																																	
2.	Fuel requirement	N/A																																	
3.	Man Power Requirement	13 (Skilled and unskilled persons)																																	

Proposed Khambala Sand Ghat Project of Area 1.05 Hectare At Village- Khambala, Tehsil- Rajura, District-Chandrapur (Maharashtra)

Executive Summary

LOCATION (MAP SHOWING GENERAL LOCATION, SPECIFIC LOCATION, AND PROJECT BOUNDARY & PROJECT SITE LAYOUT)



Figure: Specific Location of Proposed Sand Ghat

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.80 KLD. It will be procured from the supply source of Village- Khambala. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.80
2.	Dust Suppression / Water Sprinkling	1.00
3.	Green belt / Plantation	1.00
Total		2.80

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity,	Generation of fugitive dust may	Green belt shall be developed within the premises as per CPCB

Proposed Khambala Sand Ghat Project of Area 1.05 Hectare At Village- Khambala, Tehsil- Rajura, District-Chandrapur (Maharashtra)

Executive Summary

		transportation of sand via vehicles or tractor movement Loading and unloading of mineral	lead to Adverse effect of human health Stomatal index may be minimized due to dust deposit on leaf.	guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling. Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.

Proposed Khambala Sand Ghat Project of Area 1.05 Hectare At Village- Khambala, Tehsil- Rajura, District-Chandrapur (Maharashtra)

Executive Summary

5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is actioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S.No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	35,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	80,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	1,38,800/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 4,81,050/-

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**Proposed Kharkada Sand Ghat Project of Area 2.00 Hectare At Village Kharkada
Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)**

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 2.00 ha at River Wainganga adjoining Gut No. 159, 160, 161, 162, 164 Mouza: Kharkada, Tehsil: Bramhpuri, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 56M/09 and falls between the Latitude 20°33'03.19"N – 20°33'02.77"N and Longitude 79°46'20.44"E – 79°46'24.54"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 7067 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Kharkada sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	2.00 ha
2.	Proposed Production capacity	7067 Brass/Annum
C	Location Details	

Proposed Kharkada Sand Ghat Project of Area 2.00 Hectare At Village Kharkada Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Kharkada		
2.	Tehsil	Bramhpuri		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	20°33'03.19"N	79°46'20.44"E
		2	20°32'53.47"N	79°46'19.60"E
		3	20°32'53.05"N	79°46'23.71"E
		4	20°33'02.77"N	79°46'24.54"E
6.	Toposheet No.	56M/09		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Wainganga		
2.	Nearest Town / City/Village	Nearest Village: Kharkada is at a distance of 0.5 Km towards South East from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Bramhpuri Railway Station at a distance of ~8.44 km in NW direction from Project Site.		
4.	Nearest Airport	Nagpur Airport 112 km away towards West.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 10983800/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.80 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	18 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.80 KLD. It will be procured from the supply source of Village- Kharkada. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.60
2.	Dust Suppression / Water Sprinkling	1.20
3.	Green belt / Plantation	1.00
Total		2.80

Proposed Kharkada Sand Ghat Project of Area 2.00 Hectare At Village Kharkada Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)

Executive Summary

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of Vengangan health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged

Proposed Kharkada Sand Ghat Project of Area 2.00 Hectare At Village Kharkada Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)

Executive Summary

				<p>idling. Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.</p>
4.	Land	Mining or extraction of sand and transportation	<p>Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network</p>	<p>Safety distance of 3m or 1/4th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.</p>
5.	Ecology	Extraction of sand and transportation	<p>Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat</p>	<p>The green belt/community forestry near river bank and approach road will restrict the fugitive emission.</p>
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	<p>Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.</p>

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

**Proposed Kharkada Sand Ghat Project of Area 2.00 Hectare At Village Kharkada
Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)**

Executive Summary

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	30,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road and River bank maintenance	Proper Maintenance of Haul road & river bank	1,28,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	2,64,000/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 6,49,250/-

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Proposed Kodashi Khu. Sand Ghat Project of Area 2.10 Hectare At Village- Kodashi Khu., Tehsil- Koparna, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 2.10 ha at River Painganga River adjoining Gut. No. 6, 7, 8 Mouza: Kodashi Khu., Tehsil: Koparna, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 55 N/16 and falls between the Latitude 20°8'37.03"N – 20°8'38.08"N and Longitude 78°58'11.90"E - 78°58'8.64"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 3658 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Kodashi Khu. sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	2.10 ha
2.	Proposed Production capacity	3658 Brass/Annum
C	Location Details	

Proposed Kodashi Khu. Sand Ghat Project of Area 2.10 Hectare At Village- Kodashi Khu., Tehsil- Koparna, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Kodashi Khu.		
2.	Tehsil	Koparna		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	20° 8'37.03"N	78°58'11.90"E
		2	20° 8'30.70"N	78°58'10.35"E
		3	20° 8'31.75"N	78°58'7.07"E
		4	20° 8'38.08"N	78°58'8.64"E
6.	Toposheet No.	55 N/16		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Penganga		
2.	Nearest Town / City/Village	Nearest Village: Kodshi Khu is at a distance of 0.30 Km towards South from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Kayar Railway Station at a distance of 15.10 km in NW direction from Project Site.		
4.	Nearest Airport	Nagpur Airport 147.50 km away towards North.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 4453900/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	3.30 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	18 (Skilled and unskilled persons)		

Proposed Kodashi Khu. Sand Ghat Project of Area 2.10 Hectare At Village- Kodashi Khu., Tehsil- Koparna, District-Chandrapur (Maharashtra)

Executive Summary

LOCATION (MAP SHOWING GENERAL LOCATION, SPECIFIC LOCATION, AND PROJECT BOUNDARY & PROJECT SITE LAYOUT)



Figure: Specific Location of Proposed Sand Ghat

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 3.30 KLD. It will be procured from the supply source of Village- Kodashi Khu.. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.80
2.	Dust Suppression / Water Sprinkling	1.50
3.	Green belt / Plantation	1.00
Total		3.30

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand	Generation of fugitive dust may lead to Adverse effect of human	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the

Proposed Kodashi Khu. Sand Ghat Project of Area 2.10 Hectare At Village- Kodashi Khu., Tehsil- Koparna, District-Chandrapur (Maharashtra)

Executive Summary

		via vehicles or tractor movement Loading and unloading of mineral	health Stomatal index may be minimized due to dust deposit on leaf.	workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling. Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceed beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and	Short-term disturbance of	The green belt/community forestry near river bank and

Proposed Kodashi Khu. Sand Ghat Project of Area 2.10 Hectare At Village- Kodashi Khu., Tehsil- Koparna, District-Chandrapur (Maharashtra)

Executive Summary

		transportation	habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	40,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	96,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	2,77,200/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 6,40,450/-

Proposed Kultha Sand Ghat Project of Area 2.00 Hectare At Village Kultha Tehsil-Gondpipri, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 2.00 ha at River Andhari adjoining Gut No. 42, 43, 44, 45, Mouza: Kultha, Tehsil: Gondpipri, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 56M/09 and falls between the Latitude 19°58'16.42"N – 19°58'18.69"N and Longitude 79°39'56.67"E – 79°39'56.76"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 3534 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Kultha sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	2.00 ha
2.	Proposed Production capacity	3534 Brass/Annum
C	Location Details	

Proposed Kultha Sand Ghat Project of Area 2.00 Hectare At Village Kultha Tehsil-Gondpipri, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Kultha		
2.	Tehsil	Gondpipri		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	19°35'4.03"N	79°38'55.40"E
		2	19°35'26.07"N	79°38'48.61"E
		3	19°35'26.10"N	79°38'49.14"E
		4	19°35'4.27"N	79°38'55.87"E
6.	Toposheet No.	56M/09		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Andhari		
2.	Nearest Town / City/Village	Nearest Village: Kultha is at a distance of 0.5 Km towards South East from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Railway Station at a distance of 28.44 km in NW direction from Project Site.		
4.	Nearest Airport	Chandrapur Airport 47 km away towards West.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 5492700/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.80 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	18 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.80 KLD. It will be procured from the supply source of Village- Kultha. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.60
2.	Dust Suppression / Water Sprinkling	1.20
3.	Green belt / Plantation	1.00
Total		2.80

Proposed Kultha Sand Ghat Project of Area 2.00 Hectare At Village Kultha Tehsil-Gondpipri, District-Chandrapur (Maharashtra)

Executive Summary

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of hAndharin health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling.

Proposed Kultha Sand Ghat Project of Area 2.00 Hectare At Village Kultha Tehsil-Gondpipri, District-Chandrapur (Maharashtra)

Executive Summary

				Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

Proposed Kultha Sand Ghat Project of Area 2.00 Hectare At Village Kultha Tehsil-Gondpipri, District-Chandrapur (Maharashtra)

Executive Summary

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	35,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	1,60,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	2,64,000/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 6,96,250/-

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Proposed Laadbori Sand Ghat Project of Area 1.12 Hectare At Village Laadbori Tehsil-Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.12 ha at River Bokaddoh adjoining Gut No. 113,114,115,148,151,152,158, Mouza: Laadbori, Tehsil: Sindewahi District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 55P/11 and falls between the Latitude 20°18'42.31"N – 20°18'42.41"N and Longitude 79°37'02.43"E – 79°37'01.40"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 1988 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Laadbori sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	1.12 ha
2.	Proposed Production capacity	1988 Brass/Annum
C	Location Details	

Proposed Laadbori Sand Ghat Project of Area 1.12 Hectare At Village Laadbori Tehsil-Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Laadbori		
2.	Tehsil	Sindewahi		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	20°18'42.31"N	79°37'02.43"E
		2	20°18'44.40"N	79°37'02.75"E
		3	20°18'44.50"N	79°37'01.72"E
		4	20°18'42.41"N	79°37'01.40"E
6.	Toposheet No.	55P/11		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Bokaddoh		
2.	Nearest Town / City/Village	Nearest Village: Laadbori village is about 2.00 km in East direction from the Laadbori sand ghat Site		
3.	Nearest Railway Station	Sindewahi Railway Station at a distance of ~ 6.0 km in SE direction from Laadbori a sand ghat Site .		
4.	Nearest Airport	Morwa Airport 55 km away towards North.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 3089900/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	3.10 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	8 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 3.10 KLD. It will be procured from the supply source of Village- Laadbori. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.40
2.	Dust Suppression / Water Sprinkling	1.70
3.	Green belt / Plantation	1.00
Total		3.10

Proposed Laadbori Sand Ghat Project of Area 1.12 Hectare At Village Laadbori Tehsil-Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling.

Proposed Laadbori Sand Ghat Project of Area 1.12 Hectare At Village Laadbori Tehsil-Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

				Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

Proposed Laadbori Sand Ghat Project of Area 1.12 Hectare At Village Laadbori Tehsil-Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	40,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road and River bank maintenance	Proper Maintenance of Haul road & river bank	1,70,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	1,48,000/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 5,85,250/-

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**Proposed Mangaon-1 Sand Ghat Project of Area 2.75 Hectare At Village Mangaon-1
Tehsil- Bhadravati, District-Chandrapur (Maharashtra)**

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 2.75 ha at River Wardha adjoining Gut No. 237, 240/1, 240/2, 240/3, 241 Mouza: Mangaon-1, Tehsil: Bhadravati, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 55N/16 and falls between the Latitude 20°8'37.16"N – 20°8'21.47"N and Longitude 78°58'11.45"E – 78°58'7.19"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 4859 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Mangaon-1 sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	2.75 ha
2.	Proposed Production capacity	4859 Brass/Annum
C	Location Details	

Proposed Mangaon-1 Sand Ghat Project of Area 2.75 Hectare At Village Mangaon-1 Tehsil- Bhadravati, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Mangaon-1		
2.	Tehsil	Bhadravati		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	20° 8'37.16"N	78°58'11.45"E
		2	20° 8'30.84"N	78°58'9.87"E
		3	20° 8'21.11"N	78°58'9.04"E
		4	20° 8'21.47"N	78°58'7.19"E
		5	20° 8'31.38"N	78°58'8.04"E
		6	20° 8'37.71"N	78°58'9.64"E
6.	Toposheet No.	55N/16		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Wardha		
2.	Nearest Town / City/Village	Nearest Village: Mangaon-1 is at a distance of 0.5 Km towards South East from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Bhadravati Railway Station at a distance of ~8.44 km in NW direction from Project Site.		
4.	Nearest Airport	Chandrapur Airport 47 km away towards West.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 9784100/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.80 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	18 (Skilled and unskilled persons)		

LOCATION (MAP SHOWING GENERAL LOCATION, SPECIFIC LOCATION, AND PROJECT BOUNDARY & PROJECT SITE LAYOUT)

Proposed Mangaon-1 Sand Ghat Project of Area 2.75 Hectare At Village Mangaon-1 Tehsil- Bhadravati, District-Chandrapur (Maharashtra)

Executive Summary



Figure: Specific Location of Proposed Sand Ghat

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.80 KLD. It will be procured from the supply source of Village- Mangaon-1. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.60
2.	Dust Suppression / Water Sprinkling	1.20
3.	Green belt / Plantation	1.00
Total		2.80

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of hWardhan health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers.

Proposed Mangaon-1 Sand Ghat Project of Area 2.75 Hectare At Village Mangaon-1 Tehsil- Bhadravati, District-Chandrapur (Maharashtra)

Executive Summary

				The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	<p>Periodical monitoring of noise will be done.</p> <p>No other equipments except the transportation vehicles will be allowed.</p> <p>Proper maintenance of vehicles and their silencers to minimize vibration and sound.</p> <p>Ear muffs will be provided to workers.</p> <p>Development of effective greenbelt which shall help in noise attenuation.</p> <p>Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling.</p> <p>Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.</p>
4.	Land	Mining or extraction of sand and transportation	<p>Damage of river bank due to access ramps to river bed, may cause soil erosion.</p> <p>Destruction of river bank interland and ecological due to extraction of sand.</p> <p>Surface degradation due to road network</p>	<p>Safety distance of 3m or 1/4th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines").</p> <p>Mining will not exceeds beyond the allowed extraction capacity.</p> <p>Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.</p>
5.	Ecology	Extraction of sand and transportation	<p>Short-term disturbance of habitats</p> <p>disturbance of wildlife populations from noise</p> <p>Ecological impact surrounding habitat</p>	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.

Proposed Mangaon-1 Sand Ghat Project of Area 2.75 Hectare At Village Mangaon-1 Tehsil- Bhadravati, District-Chandrapur (Maharashtra)

Executive Summary

6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.
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PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successful

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	42,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	80,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	3,62,800/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 7,12,050/-

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Proposed Mangli Re Sand Ghat Project of Area 1.20 Hectare At Village Mangli Re Tehsil- Bhadravati, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.20 ha at River Mangli Re Nallah adjoining Gut No. 38/1, 38/2, 38/3, 51, 71, 72, 73, 75, to 77, 78/4, 79, 82, 84, 85/1, 86, to 88, 99, 184, Mouza: Mangli Re, Tehsil: Bhadravati, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 56M/09 and falls between the Latitude 19°58'16.42"N – 19°58'18.69"N and Longitude 79°39'56.67"E – 79°39'56.76"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 2120 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Mangli Re sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	1.20 ha
2.	Proposed Production capacity	2120 Brass/Annum

Proposed Mangli Re Sand Ghat Project of Area 1.20 Hectare At Village Mangli Re Tehsil- Bhadravati, District-Chandrapur (Maharashtra)

Executive Summary

C		Location Details		
1.	Village	Mangli Re		
2.	Tehsil	Bhadravati		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	19°58'16.42"N	79°39'56.67"E
		2	19°58'16.16"N	79°39'39.48"E
		3	19°58'18.42"N	79°39'39.56"E
		4	19°58'18.69"N	79°39'56.76"E
6.	Toposheet No.	56M/09		
D		Environmental Settings of the Area		
1.	River / water body	The quarry area is itself part of water body i.e. River-Mangli Re Nallah		
2.	Nearest Town / City/Village	Nearest Village: Mangli Re is at a distance of 0.5 Km towards South East from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Sindewahi Railway Station at a distance of ~8.44 km in NW direction from Project Site.		
4.	Nearest Airport	Chandrapur Airport 47 km away towards West.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D		Cost Details		
1.	Total Upset Price	Rs. 3295000/-		
E		Requirements of The Project		
1.	Proposed Water Requirement	2.80 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	18 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.80 KLD. It will be procured from the supply source of Village- Mangli Re. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.60
2.	Dust Suppression / Water Sprinkling	1.20
3.	Green belt / Plantation	1.00

Proposed Mangli Re Sand Ghat Project of Area 1.20 Hectare At Village Mangli Re Tehsil- Bhadravati, District-Chandrapur (Maharashtra)

Executive Summary

Total	2.80
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ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of hMangli Re Nallan health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous

Proposed Mangli Re Sand Ghat Project of Area 1.20 Hectare At Village Mangli Re Tehsil- Bhadravati, District-Chandrapur (Maharashtra)

Executive Summary

				<p>traffic flow to avoid prolonged idling.</p> <p>Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.</p>
4.	Land	Mining or extraction of sand and transportation	<p>Damage of river bank due to access ramps to river bed, may cause soil erosion.</p> <p>Destruction of river bank interland and ecological due to extraction of sand.</p> <p>Surface degradation due to road network</p>	<p>Safety distance of 3m or 1/4th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines").</p> <p>Mining will not exceeds beyond the allowed extraction capacity.</p> <p>Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.</p>
5.	Ecology	Extraction of sand and transportation	<p>Short-term disturbance of habitats</p> <p>disturbance of wildlife populations from noise</p> <p>Ecological impact surrounding habitat</p>	<p>The green belt/community forestry near river bank and approach road will restrict the fugitive emission.</p>
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	<p>Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.</p>

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

Proposed Mangli Re Sand Ghat Project of Area 1.20 Hectare At Village Mangli Re Tehsil- Bhadravati, District-Chandrapur (Maharashtra)

Executive Summary

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	30,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	90,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	1,58,400/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 5,05,650/-

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Proposed Maregaon Sand Ghat Project of Area 1.35 Hectare At Village- Maregaon, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.35 ha at River Uma River adjoining Gut. No. 158, 160, 161 Mouza: Yergaon, Tehsil: Mul, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 56P/12/SE and falls between the Latitude 20°5'15.07"N – 20°5'14.13"N and Longitude 79°41'24.52"E - 79°41'23.11"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 2385 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Maregaon sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	1.35 ha
2.	Proposed Production capacity	2385 Brass/Annum
C	Location Details	

Proposed Maregaon Sand Ghat Project of Area 1.35 Hectare At Village- Maregaon, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Maregaon		
2.	Tehsil	Mul		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	20°5'15.07"N	79°41'24.52"E
		2	20°5'25.43"N	79°41'16.20"E
		3	20°5'24.50"N	79°41'14.80"E
		4	20°5'14.13"N	79°41'23.11"E
6.	Toposheet No.	56P/12/SE		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Uma River		
2.	Nearest Town / City/Village	Nearest Village: Maregaon is at a distance of 2.0 Km towards South from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Mul Railway Station, 5.00 Km away towards SW from ML		
4.	Nearest Airport	Morwa Airport, 50 km away towards West		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 3706900/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	3.40 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	12 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 3.40 KLD. It will be procured from the supply source of Village- Yergaon. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.60
2.	Dust Suppression / Water Sprinkling	1.80
3.	Green belt / Plantation	1.00
Total		3.40

Proposed Maregaon Sand Ghat Project of Area 1.35 Hectare At Village- Maregaon, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged

Proposed Maregaon Sand Ghat Project of Area 1.35 Hectare At Village- Maregaon, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

				idling. Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
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Proposed Maregaon Sand Ghat Project of Area 1.35 Hectare At Village- Maregaon, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	25,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	1,08,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	2,07,900/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 5,68,150/-

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Proposed Mohadi Sand Ghat Project of Area 1.12 Hectare At Village Mohadi Tehsil-Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.12 ha at River Uma adjoining Gut No. 162, 165, 167, to 174, 176, 177 Mouza: Mohadi, Tehsil: Sindewahi District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 56M/09 and falls between the Latitude 19°58'16.42"N – 19°58'18.69"N and Longitude 79°39'56.67"E – 79°39'56.76"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 3180 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Mohadi sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	1.12 ha
2.	Proposed Production capacity	3180 Brass/Annum
C	Location Details	

Proposed Mohadi Sand Ghat Project of Area 1.12 Hectare At Village Mohadi Tehsil-Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Mohadi		
2.	Tehsil	Sindewahi		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	19°58'16.42"N	79°39'56.67"E
		2	19°58'16.16"N	79°39'39.48"E
		3	19°58'18.42"N	79°39'39.56"E
		4	19°58'18.69"N	79°39'56.76"E
6.	Toposheet No.	56M/09		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Uma		
2.	Nearest Town / City/Village	Nearest Village: Mohadi is at a distance of 0.5 Km towards South East from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Sindewahi Railway Station at a distance of ~8.44 km in NW direction from Project Site.		
4.	Nearest Airport	Chandrapur Airport 47 km away towards West.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 4942500/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.80 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	18 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.80 KLD. It will be procured from the supply source of Village- Mohadi. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.60
2.	Dust Suppression / Water Sprinkling	1.20
3.	Green belt / Plantation	1.00
Total		2.80

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling.

Proposed Mohadi Sand Ghat Project of Area 1.12 Hectare At Village Mohadi Tehsil-Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

				Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

Proposed Mohadi Sand Ghat Project of Area 1.12 Hectare At Village Mohadi Tehsil-Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	35,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	1,50,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	1,48,000/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 5,60,250/-

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Proposed Nakoda Sand Ghat Project of Area 2.20 Hectare At Village Nakoda Tehsil-Chandrapur, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 2.20 ha at River Wardha adjoining Gut No. 52, 53 Mouza: Nakoda, Tehsil: Chandrapur, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 56M/09 and falls between the Latitude 19°58'16.42"N – 19°58'18.69"N and Longitude 79°39'56.67"E – 79°39'56.76"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 3887 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Nakoda sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	2.20 ha
2.	Proposed Production capacity	3887 Brass/Annum
C	Location Details	

Proposed Nakoda Sand Ghat Project of Area 2.20 Hectare At Village Nakoda Tehsil-Chandrapur, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Nakoda		
2.	Tehsil	Chandrapur		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Sr. No	Latitude "N"	Longitude "E"
		1	19°37'43.00"N	79°29'30.21"E
		2	19°37'38.21"N	79°29'31.20"E
		3	19°37'38.01"N	79°29'30.20"E
		4	19°37'42.80"N	79°29'29.21"E
6.	Toposheet No.	56M/09		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Wardha		
2.	Nearest Town / City/Village	Nearest Village: Nakoda is at a distance of 0.5 Km towards South West from the Mining area.		
3.	Nearest Railway Station	Makudi Railway Station at a distance of 6.0 km in SW direction from Nakoda sand ghat Site.		
4.	Nearest Airport	Chandrapur Airport 47 km away towards West.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 6041300/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.60 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	8 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.60 KLD. It will be procured from the supply source of Village-Aarvi. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.40
2.	Dust Suppression / Water Sprinkling	1.20
3.	Green belt / Plantation	1.00
Total		2.60

Proposed Nakoda Sand Ghat Project of Area 2.20 Hectare At Village Nakoda Tehsil-Chandrapur, District-Chandrapur (Maharashtra)

Executive Summary

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of hWardhan health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling.

Proposed Nakoda Sand Ghat Project of Area 2.20 Hectare At Village Nakoda Tehsil-Chandrapur, District-Chandrapur (Maharashtra)

Executive Summary

				Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

Proposed Nakoda Sand Ghat Project of Area 2.20 Hectare At Village Nakoda Tehsil-Chandrapur, District-Chandrapur (Maharashtra)

Executive Summary

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	40,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	1,70,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	2,90,400/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 5,38,150/-

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Proposed Naleshwar Mo Sand Ghat Project of Area 1.12 Hectare At Village-Naleshwar Mo, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.12 ha at River Andhari River adjoining Gut. No. 231, 229, 228, 227 Mouza: Naleshwar Mo, Tehsil: Mul, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 56M/9/NW and falls between the Latitude 19°58'11.84"N – 19°58'11.60"N and Longitude 79°37'22.26"E - 79°37'21.47"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 1988 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Naleshwar Mo sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	1.12 ha
2.	Proposed Production capacity	1988 Brass/Annum
C	Location Details	

Proposed Naleshwar Mo Sand Ghat Project of Area 1.12 Hectare At Village-Naleshwar Mo, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Naleshwar Mo		
2.	Tehsil	Mul		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	19°58'11.84"N	79°37'22.26"E
		2	19°57'57.69"N	79°37'26.01"E
		3	19°57'57.47"N	79°37'25.19"E
		4	19°58'11.60"N	79°37'21.47"E
6.	Toposheet No.	56M/9/NW		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Uma		
2.	Nearest Town / City/Village	Nearest Village: Uthal Peth is at a distance of 1.0 Km towards East from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Tolewahi Railway Station at a distance of 5.5 km in North direction from Project Site.		
4.	Nearest Airport	Chandrapur Airport 42.2 km away towards West.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 6075700/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.30 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	12 (Skilled and unskilled persons)		

Proposed Naleshwar Mo Sand Ghat Project of Area 1.12 Hectare At Village- Naleshwar Mo, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

LOCATION (MAP SHOWING GENERAL LOCATION, SPECIFIC LOCATION, AND PROJECT BOUNDARY & PROJECT SITE LAYOUT)



Figure: Specific Location of Proposed Sand Ghat

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.30 KLD. It will be procured from the supply source of Village- Naleshwar Mo. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.30
2.	Dust Suppression / Water Sprinkling	1.00
3.	Green belt / Plantation	1.00
Total		2.30

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on

Proposed Naleshwar Mo Sand Ghat Project of Area 1.12 Hectare At Village-Naleshwar Mo, Tehsil- Mul, District-Chandrapur (Maharashtra)

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		movement Loading and unloading of mineral	may be minimized due to dust deposit on leaf.	unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling. Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceed beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.

Proposed Naleshwar Mo Sand Ghat Project of Area 1.12 Hectare At Village-Naleshwar Mo, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

			wildlife populations from noise Ecological impact surrounding habitat	
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	35,750/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	80,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	1,48,000/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 4,91,000/-

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Proposed Palasgaon Sand Ghat Project of Area 1.02 Hectare At Village- Palasgaon, Tehsil- Ballarpur, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.02 ha at River Palasgaon Nallah adjoining Gut. No. 427, 429, to 432, 446, 447, 449 Mouza: Palasgaon, Tehsil: Ballarpur, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 56M/05 and falls between the Latitude 19°49'08.77"N – 19°48'50.31" N and Longitude 79°28'37.93"E - 79°29'29.79" E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 1442 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Palasgaon sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	1.02 ha
2.	Proposed Production capacity	1442 Brass/Annum
C	Location Details	

Proposed Palasgaon Sand Ghat Project of Area 1.02 Hectare At Village- Palasgaon, Tehsil- Ballarpur, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Palasgaon		
2.	Tehsil	Ballarpur		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	19°49'08.77"N	79°28'37.93"E
		2	19°49'8.21" N	79°28'38.01" E
		3	19°48'50.09" N	79°29'29.67" E
		4	19°48'50.31" N	79°29'29.79" E
6.	Toposheet No.	56M/05		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Palasgaon Nallah		
2.	Nearest Town / City/Village	Nearest Village: Palasgaon village is about 1.0 km in SW direction from the Palasgaon sand ghat Site		
3.	Nearest Railway Station	Mankgarh Railway Station at a distance of ~ 9.0 km in SW direction from Palasgaon sand ghat Site		
4.	Nearest Airport	Nagpur Airport, 111.50 km away towards North		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 2241200/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.50 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	8 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.45 KLD. It will be procured from the supply source of Village- Palasgaon. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.45
2.	Dust Suppression / Water Sprinkling	1.00
3.	Green belt / Plantation	1.00
Total		2.45

Proposed Palasgaon Sand Ghat Project of Area 1.02 Hectare At Village- Palasgaon, Tehsil- Ballarpur, District-Chandrapur (Maharashtra)

Executive Summary

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling.

Proposed Palasgaon Sand Ghat Project of Area 1.02 Hectare At Village- Palasgaon, Tehsil- Ballarpur, District-Chandrapur (Maharashtra)

Executive Summary

				Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

Proposed Palasgaon Sand Ghat Project of Area 1.02 Hectare At Village- Palasgaon, Tehsil- Ballarpur, District-Chandrapur (Maharashtra)

Executive Summary

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	25,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5,000/-
2.	Road maintenance	Proper Maintenance of Haul road	50,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	1,34,800/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,38,250/-
Total			Rs. 4,38,050/-

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Proposed Rajoli Sand Ghat Project of Area 2.85 Hectare At Village- Rajoli, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 2.85 ha at River Uma River adjoining Gut. No. 935, 922, 907, 905, 896 Mouza: Rajoli, Tehsil: Mul, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 55P/12/NE and falls between the Latitude 20°10'37.22"N – 20°11'1.65"N and Longitude 79°39'59.84"E - 79°39'40.69"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 5035 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Rajoli sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	2.85 ha
2.	Proposed Production capacity	5035 Brass/Annum
C	Location Details	

Proposed Rajoli Sand Ghat Project of Area 2.85 Hectare At Village- Rajoli, Tehsil-Mul, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Rajoli		
2.	Tehsil	Mul		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	20°10'37.22"N	79°39'59.84"E
		2	20°10'52.98"N	79°39'45.57"E
		3	20°11'1.95"N	79°39'41.69"E
		4	20°11'1.65"N	79°39'40.69"E
		5	20°10'52.37"N	79°39'44.77"E
		6	20°10'36.57"N	79°39'59.09"E
6.	Toposheet No.	55P/12/NE		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Uma		
2.	Nearest Town / City/Village	Nearest Village: Rajoli is at a distance of 2.0 Km towards South East from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Mul Railway Station at a distance of 14.0 km in South direction from Project Site.		
4.	Nearest Airport	Chandrapur Airport 101 km away towards SW.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 7991100/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.50 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	18 (Skilled and unskilled persons)		

Proposed Rajoli Sand Ghat Project of Area 2.85 Hectare At Village- Rajoli, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

LOCATION (MAP SHOWING GENERAL LOCATION, SPECIFIC LOCATION, AND PROJECT BOUNDARY & PROJECT SITE LAYOUT)



Figure: Specific Location of Proposed Sand Ghat

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 3.10 KLD. It will be procured from the supply source of Village- Rajoli. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.50
2.	Dust Suppression / Water Sprinkling	1.60
3.	Green belt / Plantation	1.00
Total		3.10

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on

Proposed Rajoli Sand Ghat Project of Area 2.85 Hectare At Village- Rajoli, Tehsil-Mul, District-Chandrapur (Maharashtra)

Executive Summary

		movement Loading and unloading of mineral	may be minimized due to dust deposit on leaf.	unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling. Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceed beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.

Proposed Rajoli Sand Ghat Project of Area 2.85 Hectare At Village- Rajoli, Tehsil-Mul, District-Chandrapur (Maharashtra)

Executive Summary

			wildlife populations from noise Ecological impact surrounding habitat	
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	25,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	176,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	3,76,000/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,38,250/-
Total			Rs. 8,05,250/-

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Proposed Ralegaon Rith Sand Ghat Project of Area 4.50 Hectare At Village Ralegaon Rith Tehsil- Bhadravati, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 4.50 ha at River Wardha adjoining Gut No. 6/1, 7, 10, 13, 14, 15, 17, to 25, Mouza: Ralegaon Rith, Tehsil: Bhadravati, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 55P/16 and falls between the Latitude 20°7'34.76"N – 20°7'29.26"N and Longitude 78°58'23.46"E – 78°58'39.98"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 6360 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Ralegaon Rith sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	4.50 ha
2.	Proposed Production capacity	6360 Brass/Annum
C	Location Details	

Proposed Ralegaon Rith Sand Ghat Project of Area 4.50 Hectare At Village Ralegaon Rith Tehsil- Bhadravati, District-Chandrapur (Maharashtra)

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1.	Village	Ralegaon Rith		
2.	Tehsil	Bhadravati		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	20°7'34.76"N	78°58'23.46"E
		2	20°7'33.41"N	78°58'22.48"E
		3	20° 7'27.63"N	78°58'40.21"E
		4	20°7'29.26"N	78°58'39.98"E
6.	Toposheet No.	55P/16		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Wardha		
2.	Nearest Town / City/Village	Nearest Village: Ralegaon Reeth is about 1.0 km in East direction from the Ralegaon Reeth sand ghat Site		
3.	Nearest Railway Station	Majri Railway Station at a distance of ~ 7.0 km in East direction from Ralegaon Reeth sand ghat Site.		
4.	Nearest Airport	Morwa Airport 47 km away towards West.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 9885000/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	3.10 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	18 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 3.10 KLD. It will be procured from the supply source of Village- Ralegaon rith. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.90
2.	Dust Suppression / Water Sprinkling	1.20
3.	Green belt / Plantation	1.00
Total		3.10

Proposed Ralegaon Rith Sand Ghat Project of Area 4.50 Hectare At Village Ralegaon Rith Tehsil- Bhadravati, District-Chandrapur (Maharashtra)

Executive Summary

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of hWardhan health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling.

Proposed Ralegaon Rith Sand Ghat Project of Area 4.50 Hectare At Village Ralegaon Rith Tehsil- Bhadravati, District-Chandrapur (Maharashtra)

Executive Summary

				Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of	Environmental Baseline Monitoring	45,000/-

Proposed Ralegaon Rith Sand Ghat Project of Area 4.50 Hectare At Village Ralegaon Rith Tehsil- Bhadravati, District-Chandrapur (Maharashtra)

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	tractor trolley & transportation of mineral	(Air, Water, Noise etc.)	
		Water Sprinkling	35,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	1,27,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	5,94,000/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 9,83,250/-

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Proposed Ranmochan Sand Ghat Project of Area 4.00 Hectare At Village Ranmochan Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 4.00 ha at River Wainganga adjoining Gut No. 123, 124, 125, 127, 129, 131, 132, 134, 135, 138, Mouza: Ranmochan, Tehsil: Bramhpuri, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 55P/14 and falls between the Latitude 20°41'03.24"N – 20°41'06.88"N and Longitude 79°53'10.05"E – 79°52'10.94"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 7067 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Ranmochan sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	4.00 ha
2.	Proposed Production capacity	7067 Brass/Annum
C	Location Details	

Proposed Ranmochan Sand Ghat Project of Area 4.00 Hectare At Village Ranmochan Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Ranmochan		
2.	Tehsil	Bramhpuri		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	20°41'03.24"N	79°53'10.05"E
		2	20°41'01.40"N	79°53'21.99"E
		3	20°41'05.05"N	79°53'22.88"E
		4	20°41'06.88"N	79°52'10.94"E
6.	Toposheet No.	55P/14		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Wainganga		
2.	Nearest Town / City/Village	Nearest Village: Ranmochan is about 1.0 km in South direction from the Ranmochan sand ghat Site.		
3.	Nearest Railway Station	Brahmpuri Railway Station at a distance of ~ 8.0 km in NW direction from Ranmochan sand ghat Site.		
4.	Nearest Airport	Nagpur Airport 107 km away towards West.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 10983800/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.80 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	18 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.80 KLD. It will be procured from the supply source of Village- Ranmochan. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	1.00
2.	Dust Suppression / Water Sprinkling	0.80
3.	Green belt / Plantation	1.00
Total		2.80

ENVIRONMENT MANAGEMENT PLAN

Proposed Ranmochan Sand Ghat Project of Area 4.00 Hectare At Village Ranmochan Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)

Executive Summary

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of hVengangan health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling. Noisy activities will be scheduled

Proposed Ranmochan Sand Ghat Project of Area 4.00 Hectare At Village Ranmochan Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)

Executive Summary

				at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceed beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

Proposed Ranmochan Sand Ghat Project of Area 4.00 Hectare At Village Ranmochan Tehsil- Bramhpuri, District-Chandrapur (Maharashtra)

Executive Summary

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	25,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	80,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	5,28,000/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 8,60,250/-

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Proposed Samda Buj Sand Ghat Project of Area 1.80 Hectare At Village- Samda Buj, Tehsil- Sawali, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.80 ha at River Wainganga adjoining Gut. No. 628, 629, 630 Mouza: Samda Buj, Tehsil: Sawali, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 55 N/16 and falls between the Latitude 20°8'37.03"N – 20°8'38.08"N and Longitude 78°58'11.90"E - 78°58'8.64"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 3180 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Samda Buj sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	1.80 ha
2.	Proposed Production capacity	3180 Brass/Annum
C	Location Details	

Proposed Samda Buj Sand Ghat Project of Area 1.80 Hectare At Village- Samda Buj, Tehsil- Sawali, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Samda Buj		
2.	Tehsil	Sawali		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	20° 8'37.03"N	78°58'11.90"E
		2	20° 8'30.70"N	78°58'10.35"E
		3	20° 8'31.75"N	78°58'7.07"E
		4	20° 8'38.08"N	78°58'8.64"E
6.	Toposheet No.	55 N/16		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Wainganga		
2.	Nearest Town / City/Village	Nearest Village: Samda Buj is at a distance of 0.30 Km towards South from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Sawali Railway Station, 7.50 Km away towards East from ML		
4.	Nearest Airport	Nagpur Airport, 111.50 km away towards North		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 4942500/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.50 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	18 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.50 KLD. It will be procured from the supply source of Village- Samda Buj. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.50
2.	Dust Suppression / Water Sprinkling	1.00
3.	Green belt / Plantation	1.00
Total		2.50

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling.

Proposed Samda Buj Sand Ghat Project of Area 1.80 Hectare At Village- Samda Buj, Tehsil- Sawali, District-Chandrapur (Maharashtra)

Executive Summary

				Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

**Proposed Samda Buj Sand Ghat Project of Area 1.80 Hectare At Village- Samda Buj,
Tehsil- Sawali, District-Chandrapur (Maharashtra)**

Executive Summary

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	40,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	2,18,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	2,37,600/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 7,22,850/-

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Proposed Saradpaar Sand Ghat Project of Area 1.25 Hectare At Village Saradpaar Tehsil- Chimur, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.25 ha at River Uma adjoining Gut No. 40, 41, 42, 47, 48, 49/B, Mouza: Saradpaar, Tehsil: Chimur, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 56M/09 and falls between the Latitude 19°58'16.42"N – 19°58'18.69"N and Longitude 79°39'56.67"E – 79°39'56.76"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 2208 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Saradpaar sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	1.25 ha
2.	Proposed Production capacity	2208 Brass/Annum
C	Location Details	

Proposed Saradpaar Sand Ghat Project of Area 1.25 Hectare At Village Saradpaar Tehsil- Chimur, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Saradpaar		
2.	Tehsil	Chimur		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	19°58'16.42"N	79°39'56.67"E
		2	19°58'16.16"N	79°39'39.48"E
		3	19°58'18.42"N	79°39'39.56"E
		4	19°58'18.69"N	79°39'56.76"E
6.	Toposheet No.	56M/09		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Uma		
2.	Nearest Town / City/Village	Nearest Village: Saradpaar is at a distance of 2.0 Km towards South East from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Chimur Railway Station at a distance of 14.44 km in NW direction from Project Site.		
4.	Nearest Airport	Nagpur Airport 112 km away towards West.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 3431800/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.40 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	12 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.40 KLD. It will be procured from the supply source of Village- Saradpaar. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.40
2.	Dust Suppression / Water Sprinkling	1.00
3.	Green belt / Plantation	1.00
Total		2.40

Proposed Saradpaar Sand Ghat Project of Area 1.25 Hectare At Village Saradpaar Tehsil- Chimur, District-Chandrapur (Maharashtra)

Executive Summary

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged

Proposed Saradpaar Sand Ghat Project of Area 1.25 Hectare At Village Saradpaar Tehsil- Chimur, District-Chandrapur (Maharashtra)

Executive Summary

				<p>idling. Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.</p>
4.	Land	Mining or extraction of sand and transportation	<p>Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network</p>	<p>Safety distance of 3m or 1/4th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.</p>
5.	Ecology	Extraction of sand and transportation	<p>Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat</p>	<p>The green belt/community forestry near river bank and approach road will restrict the fugitive emission.</p>
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	<p>Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.</p>

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

**Proposed Saradpaar Sand Ghat Project of Area 1.25 Hectare At Village Saradpaar
Tehsil- Chimur, District-Chandrapur (Maharashtra)**

Executive Summary

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	40,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	2,67,,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	1,97,200/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 7,31,450/-

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Proposed Saradpar Sand Ghat Project of Area 3.80 Hectare At Village Saradpar Tehsil- Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 3.80 ha at River Uma adjoining Gut No. 411/1, Mouza: Saradpar, Tehsil: Sindewahi District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 56M/09 and falls between the Latitude 19°58'16.42"N – 19°58'18.69"N and Longitude 79°39'56.67"E – 79°39'56.76"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 13428 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Saradpar sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	3.80 ha
2.	Proposed Production capacity	13428 Brass/Annum
C	Location Details	

Proposed Saradpar Sand Ghat Project of Area 3.80 Hectare At Village Saradpar Tehsil- Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Saradpar		
2.	Tehsil	Sindewahi		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	19°58'16.42"N	79°39'56.67"E
		2	19°58'16.16"N	79°39'39.48"E
		3	19°58'18.42"N	79°39'39.56"E
		4	19°58'18.69"N	79°39'56.76"E
6.	Toposheet No.	56M/09		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Uma		
2.	Nearest Town / City/Village	Nearest Village: Saradpar is at a distance of 0.5 Km towards South East from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Sindewahi Railway Station at a distance of 6.90 km in NS direction from Project Site.		
4.	Nearest Airport	Chandrapur Airport 117 km away towards West.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 20870200/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	3.10 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	22 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 3.10 KLD. It will be procured from the supply source of Village- Saradpar. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.90
2.	Dust Suppression / Water Sprinkling	1.20
3.	Green belt / Plantation	1.00
Total		3.10

Proposed Saradpar Sand Ghat Project of Area 3.80 Hectare At Village Saradpar Tehsil- Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling.

Proposed Saradpar Sand Ghat Project of Area 3.80 Hectare At Village Saradpar Tehsil- Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

				Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

Proposed Saradpar Sand Ghat Project of Area 3.80 Hectare At Village Saradpar Tehsil- Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	30,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	85,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	5,01,600/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 8,43,850/-

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Proposed Sarandi Sand Ghat Project of Area 2.00 Hectare At Village Sarandi Tehsil-Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 2.00 ha at River Uma adjoining Gut No. 107 to 110, 112, Mouza: Sarandi, Tehsil: Sindewahi District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 56M/09 and falls between the Latitude 20°21'33.49"N – 20°21'32.64"N and Longitude 79°29'11.69"E – 79°29'11.18"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 7067 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Sarandi sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	2.00 ha
2.	Proposed Production capacity	7067 Brass/Annum
C	Location Details	

Proposed Sarandi Sand Ghat Project of Area 2.00 Hectare At Village Sarandi Tehsil-Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Sarandi		
2.	Tehsil	Uma		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	20°21'33.49"N	79°29'11.69"E
		2	20°21'32.19"N	79°29'13.45"E
		3	20°21'31.33"N	79°29'12.94"E
		4	20°21'32.64"N	79°29'11.18"E
6.	Toposheet No.	56M/09		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Uma		
2.	Nearest Town / City/Village	Nearest Village: Sarandi is at a distance of 1.0 Km towards South East from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Sindewahi Railway Station at a distance of 20.0 km in NW direction from Project Site.		
4.	Nearest Airport	Morwa Airport 60 km away towards North.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 10983800/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	3.00 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	18 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 3.00 KLD. It will be procured from the supply source of Village- Sarandi. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.90
2.	Dust Suppression / Water Sprinkling	1.10
3.	Green belt / Plantation	1.00
Total		3.00

Proposed Sarandi Sand Ghat Project of Area 2.00 Hectare At Village Sarandi Tehsil-Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling.

Proposed Sarandi Sand Ghat Project of Area 2.00 Hectare At Village Sarandi Tehsil-Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

				Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

Proposed Sarandi Sand Ghat Project of Area 2.00 Hectare At Village Sarandi Tehsil-Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	30,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	80,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	2,64,000/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,38,250/-
Total			Rs. 6,02,250/-

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Proposed Sondri Sand Ghat Project of Area 1.08 Hectare At Village Sondri Tehsil-Bramhpuri, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.08 ha at River Venganga adjoining Gut No. 197, 198, 200 Mouza: Sondri, Tehsil: Bramhpuri, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 55P/14 and falls between the Latitude 20°38'35.72"N – 20°38'36.57"N and Longitude 79°54'47.45"E – 79°54'49.31"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 3816 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Sondri sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	1.08 ha
2.	Proposed Production capacity	3816 Brass/Annum
C	Location Details	

Proposed Sondri Sand Ghat Project of Area 1.08 Hectare At Village Sondri Tehsil-Bramhpuri, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Sondri		
2.	Tehsil	Bramhpuri		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	20°38'35.72"N	79°54'47.45"E
		2	20°38'47.51"N	79°54'41.61"E
		3	20°38'48.36"N	79°54'43.47"E
		4	20°38'36.57"N	79°54'49.31"E
6.	Toposheet No.	55P/14		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Wainganga		
2.	Nearest Town / City/Village	Nearest Village: Sondri is about 1.0 km in South East direction from the Sondri sand ghat Site.		
3.	Nearest Railway Station	Brahmpuri Railway Station at a distance of ~ 3.0 km in South direction from Sondri sand ghat Site		
4.	Nearest Airport	Nagpur Airport 101 km away towards South.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 5931000/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.70 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	12 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.70 KLD. It will be procured from the supply source of Village- Sondri. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.60
2.	Dust Suppression / Water Sprinkling	1.10
3.	Green belt / Plantation	1.00
Total		2.70

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of Vengangan health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling.

Proposed Sondri Sand Ghat Project of Area 1.08 Hectare At Village Sondri Tehsil-Bramhpuri, District-Chandrapur (Maharashtra)

Executive Summary

				Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

Proposed Sondri Sand Ghat Project of Area 1.08 Hectare At Village Sondri Tehsil-Bramhpuri, District-Chandrapur (Maharashtra)

Executive Summary

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	30,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	80,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	1,42,900/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,38,250/-
Total			Rs. 4,81,150/-

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Proposed Sushui Dabgaon Sand Ghat Project of Area 1.05 Hectare At Village- Sushu Dabgaon, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.05 ha at River Uma adjoining Kh. No. 103, Mouza: Sushu Dabgaon, Tehsil: Mul, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 56M /9 and falls between the Latitude 19°58'27.41"N - 19°58'28.28"N and Longitude 79°37'11.72"E - 79°37'12.49"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 1855 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Sushu Dabgaon sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	1.05 ha
2.	Proposed Production capacity	1855 Brass/Annum
C	Location Details	

Proposed Sushui Dabgaon Sand Ghat Project of Area 1.05 Hectare At Village- Sushu Dabgaon, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Sushu Dabgaon		
2.	Tehsil	Mul		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	19°58'27.41"N	79°37'11.72"E
		2	19°58'30.27"N	79°37'7.46"E
		3	19°58'31.87"N	79°37'2.65"E
		4	19°58'32.95"N	79°37'3.04"E
		5	19°58'31.24"N	79°37'8.02"E
		6	19°58'28.28"N	79°37'12.49"E
6.	Toposheet No.	56M /9		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Uma		
2.	Nearest Town / City/Village	Nearest Village: Chiroli is at a distance of 1.5 Km towards North from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Tolewahi Railway Station at a distance of ~ 5.0 km in North direction from Project Site.		
4.	Nearest Airport	Chandrapur Airport 17.5 km away towards NW.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 19198700/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.50 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	8(Skilled and unskilled persons)		

Proposed Sushui Dabgaon Sand Ghat Project of Area 1.05 Hectare At Village- Sushui Dabgaon, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

LOCATION (MAP SHOWING GENERAL LOCATION, SPECIFIC LOCATION, AND PROJECT BOUNDARY & PROJECT SITE LAYOUT)



Figure: Specific Location of Proposed Sand Ghat

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.50 KLD. It will be procured from the supply source of Village- Sushui Dabgaon. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.50
2.	Dust Suppression / Water Sprinkling	1.00
3.	Green belt / Plantation	1.00
Total		2.50

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index may be minimized	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road.

Proposed Sushui Dabgaon Sand Ghat Project of Area 1.05 Hectare At Village- Sushi Dabgaon, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

		Loading and unloading of mineral	due to dust deposit on leaf.	Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling. Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceed beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.

Proposed Sushui Dabgaon Sand Ghat Project of Area 1.05 Hectare At Village- Sushui Dabgaon, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

			from noise Ecological impact surrounding habitat	
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is actioned and excavation took place successfully

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	38,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	1,20,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	1,38,800/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 5,24,050/-

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Proposed Tamsi Rith Sand Ghat Project of Area 1.50 Hectare At Village- Tamsi Rith, Tehsil- Koparna, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.50 ha at River Painganga River adjoining Gut. No. 16, 19, 22, 23 Mouza: Tamsi Rith, Tehsil: Koparna, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 56M/1 and falls between the Latitude 19°48'21.57"N – 19°48'20.25"N and Longitude 79°0'18.49"E - 79°0'30.49"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 2650 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Tamsi Rith sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	1.50 ha
2.	Proposed Production capacity	2650 Brass/Annum
C	Location Details	

Proposed Tamsi Rith Sand Ghat Project of Area 1.50 Hectare At Village- Tamsi Rith, Tehsil- Koparna, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Tamsi Rith		
2.	Tehsil	Koparna		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	19°48'21.57"N	79° 0'18.49"E
		2	19°48'23.47"N	79° 0'18.79"E
		3	19°48'22.18"N	79° 0'30.73"E
		4	19°48'20.25"N	79° 0'30.49"E
6.	Toposheet No.	56M/1		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Penganga		
2.	Nearest Town / City/Village	Nearest Village: Tamsi Reeth is at a distance of 1.50 Km towards South from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Chandrapur Railway Station at a distance of 17.10 km in NE direction from Project Site.		
4.	Nearest Airport	Nagpur Airport 138.50 km away towards North.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 6292800/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.50 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	13 (Skilled and unskilled persons)		

Proposed Tamsi Rith Sand Ghat Project of Area 1.50 Hectare At Village- Tamsi Rith, Tehsil- Koparna, District-Chandrapur (Maharashtra)

Executive Summary

LOCATION (MAP SHOWING GENERAL LOCATION, SPECIFIC LOCATION, AND PROJECT BOUNDARY & PROJECT SITE LAYOUT)



Figure: Specific Location of Proposed Sand Ghat

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.50 KLD. It will be procured from the supply source of Village- Tamsi Rith. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.50
2.	Dust Suppression / Water Sprinkling	1.00
3.	Green belt / Plantation	1.00
Total		2.50

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on

Proposed Tamsi Rith Sand Ghat Project of Area 1.50 Hectare At Village- Tamsi Rith, Tehsil- Koparna, District-Chandrapur (Maharashtra)

Executive Summary

		movement Loading and unloading of mineral	may be minimized due to dust deposit on leaf.	unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling. Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceed beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.

Proposed Tamsi Rith Sand Ghat Project of Area 1.50 Hectare At Village- Tamsi Rith, Tehsil- Koparna, District-Chandrapur (Maharashtra)

Executive Summary

			wildlife populations from noise Ecological impact surrounding habitat	
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	45,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	60,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	1,98,000/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 5,30,250/-

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Proposed Tulana 1 Sand Ghat Project of Area 1.32 Hectare At Village- Tulana, Tehsil- Warora, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.32 ha at River Wardha adjoining Gut no. 356/1, 353, 354, Mouza: Tulana, Tehsil: Warora, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 55L/16 and falls between the Latitude 20°11'23.15"N - 20°11'22.76"N and Longitude 78°57'22.16"E - 78°57'20.14"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 2332 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Tulana 1 sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	1.32 ha
2.	Proposed Production capacity	2332 Brass/Annum
C	Location Details	

Proposed Tulana 1 Sand Ghat Project of Area 1.32 Hectare At Village- Tulana, Tehsil- Warora, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Tulana		
2.	Tehsil	Warora		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	20°11'23.79"N	78°57'22.01"E
		2	20°11'30.75"N	78°57'20.28"E
		3	20°11'30.36"N	78°57'18.26"E
		4	20°11'23.43"N	78°57'19.97"E
6.	Toposheet No.	55L/16		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Penganga		
2.	Nearest Town / City/Village	Nearest Village: Karanji is at a distance of 0.85 km in SEE direction from the project site.		
3.	Nearest Railway Station	The nearest railway station is located Warora Railway Station, 8.35 Km away towards NE Direction from Project Site.		
4.	Nearest Airport	Chadrapur Airport, 35.31 km away towards SEE direction		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 3138600/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.30 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	13 (Skilled and unskilled persons)		

Proposed Tulana 1 Sand Ghat Project of Area 1.32 Hectare At Village- Tulana, Tehsil- Warora, District- Chandrapur (Maharashtra)

Executive Summary

LOCATION (MAP SHOWING GENERAL LOCATION, SPECIFIC LOCATION, AND PROJECT BOUNDARY & PROJECT SITE LAYOUT)



Figure: Specific Location of Proposed Sand Ghat

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.30 KLD. It will be procured from the supply source of Village- Karanji. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.30
2.	Dust Suppression / Water Sprinkling	1.00
3.	Green belt / Plantation	1.00
Total		2.30

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles	Generation of fugitive dust may lead to Adverse effect of human health	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road.

Proposed Tulana 1 Sand Ghat Project of Area 1.32 Hectare At Village- Tulana, Tehsil- Warora, District-Chandrapur (Maharashtra)

Executive Summary

		or tractor movement Loading and unloading of mineral	Stomatal index may be minimized due to dust deposit on leaf.	Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling. Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceed beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.

Proposed Tulana 1 Sand Ghat Project of Area 1.32 Hectare At Village- Tulana, Tehsil- Warora, District-Chandrapur (Maharashtra)

Executive Summary

6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.
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PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is actioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	30,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	44,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	1,74,400/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc.)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 4,75,650/-

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Proposed Tulana-2 Sand Ghat Project of Area 1.15 Hectare At Village Tulana, Tehsil-Warora, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.15 ha at River Wardha adjoining Gut no. 393, 394, 363, Mouza: Tulana, Tehsil: Warora, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 55L/16 and falls between the Latitude 20°11'48.30"N – 20°11'49.32"N and Longitude 78°57'28.74"E – 78°57'27.41"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 2031 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Tulana -2 sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	1.15 ha
2.	Proposed Production capacity	2032 Brass/Annum
C	Location Details	

Proposed Tulana-2 Sand Ghat Project of Area 1.15 Hectare At Village Tulana, Tehsil-Warora, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Tulana		
2.	Tehsil	Warora		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	20°11'48.30"N	78°57'28.74"E
		2	20°11'54.00"N	78°57'33.87"E
		3	20°11'55.05"N	78°57'32.55"E
		4	20°11'49.32"N	78°57'27.41"E
6.	Toposheet No.	55L/16		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Wardha		
2.	Nearest Town / City/Village	Nearest Village: Karanji is at a distance of 1.25 km in SE direction from the project site.		
3.	Nearest Railway Station	The nearest railway station is located Warora Railway Station, 7.65 Km away towards NE Direction from Project Site.		
4.	Nearest Airport	Chadrapur Airport, 35.60 km away towards SEE direction		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 4766800/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.30 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	09 (Skilled and unskilled persons)		

Proposed Tulana-2 Sand Ghat Project of Area 1.15 Hectare At Village Tulana, Tehsil-Warora, District-Chandrapur (Maharashtra)

Executive Summary

LOCATION (MAP SHOWING GENERAL LOCATION, SPECIFIC LOCATION, AND PROJECT BOUNDARY & PROJECT SITE LAYOUT)



Figure: Specific Location of Proposed Sand Ghat

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.30 KLD. It will be procured from the supply source of Village- Karanji. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.30
2.	Dust Suppression / Water Sprinkling	1.00
3.	Green belt / Plantation	1.00
Total		2.30

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles	Generation of fugitive dust may lead to Adverse effect of human health	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged.

Proposed Tulana-2 Sand Ghat Project of Area 1.15 Hectare At Village Tulana, Tehsil-Warora, District-Chandrapur (Maharashtra)

Executive Summary

		or tractor movement Loading and unloading of mineral	Stomatal index may be minimized due to dust deposit on leaf.	Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling. Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceed beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats	The green belt/community forestry near river bank and approach road will restrict the

Proposed Tulana-2 Sand Ghat Project of Area 1.15 Hectare At Village Tulana, Tehsil-Warora, District-Chandrapur (Maharashtra)

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		on	disturbance of wildlife populations from noise Ecological impact surrounding habitat	fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is actioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	35,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	60,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	1,52,000/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
	Total		Rs. 4,74,250/-

Proposed Usegaon Sand Ghat Project of Area 2.52 Hectare At Village Usegaon Tehsil-Chimur, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 2.52 ha at River Uma adjoining Gut No. 309 to 313, Mouza: Usegaon, Tehsil: Chimur, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 56M/09 and falls between the Latitude 19°58'16.42"N – 19°58'18.69"N and Longitude 79°39'56.67"E – 79°39'56.76"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 8905 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Usegaon sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	2.52 ha
2.	Proposed Production capacity	8905 Brass/Annum
C	Location Details	

Proposed Usegaon Sand Ghat Project of Area 2.52 Hectare At Village Usegaon Tehsil-Chimur, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Usegaon		
2.	Tehsil	Chimur		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	19°58'16.42"N	79°39'56.67"E
		2	19°58'16.16"N	79°39'39.48"E
		3	19°58'18.42"N	79°39'39.56"E
		4	19°58'18.69"N	79°39'56.76"E
6.	Toposheet No.	56M/09		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Uma		
2.	Nearest Town / City/Village	Nearest Village: Usegaon is at a distance of 0.75 Km towards South East from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Chimur Railway Station at a distance of 14.22 km in NW direction from Project Site.		
4.	Nearest Airport	Nagpur Airport 87 km away towards West.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 13840500/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	3.10 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	22 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 3.10 KLD. It will be procured from the supply source of Village- Usegaon. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.80
2.	Dust Suppression / Water Sprinkling	1.30
3.	Green belt / Plantation	1.00
Total		3.10

Proposed Usegaon Sand Ghat Project of Area 2.52 Hectare At Village Usegaon Tehsil-Chimur, District-Chandrapur (Maharashtra)

Executive Summary

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged

Proposed Usegaon Sand Ghat Project of Area 2.52 Hectare At Village Usegaon Tehsil-Chimur, District-Chandrapur (Maharashtra)

Executive Summary

				<p>idling. Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.</p>
4.	Land	Mining or extraction of sand and transportation	<p>Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network</p>	<p>Safety distance of 3m or 1/4th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.</p>
5.	Ecology	Extraction of sand and transportation	<p>Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat</p>	<p>The green belt/community forestry near river bank and approach road will restrict the fugitive emission.</p>
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	<p>Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.</p>

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

Proposed Usegaon Sand Ghat Project of Area 2.52 Hectare At Village Usegaon Tehsil-Chimur, District-Chandrapur (Maharashtra)

Executive Summary

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	25,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	50,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	3,32,800/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 6,35,050/-

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Proposed Usharala Chak Sand Ghat Project of Area 3.00 Hectare At Village-Usharala Chak, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 3.00 ha at River Uma River adjoining Gut. No. 252, 253, 269 Mouza: Usharala Chak, Tehsil: Mul, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 55P/12/NE and falls between the Latitude 20°7'50.36"N – 20°8'14.60"N and Longitude 79°40'22.47"E - 79°40'44.75"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 5300 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Usharala Chak sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	3.00 ha
2.	Proposed Production capacity	5300 Brass/Annum
C	Location Details	

Proposed Usharala Chak Sand Ghat Project of Area 3.00 Hectare At Village-Usharala Chak, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Usharala Chak		
2.	Tehsil	Mul		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	20° 7'50.36"N	79°40'22.47"E
		2	20° 7'57.31"N	79°40'26.02"E
		3	20° 8'15.32"N	79°40'44.05"E
		4	20° 8'14.60"N	79°40'44.75"E
		5	20° 7'56.70"N	79°40'26.85"E
		6	20° 7'49.90"N	79°40'23.40"E
6.	Toposheet No.	55P/12/NE		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Uma		
2.	Nearest Town / City/Village	Nearest Village: Urshada Chaka is at a distance of 1.05 Km towards East from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Maroda Railway Station, 4.14 Km away towards SSW Direction		
4.	Nearest Airport	Chandrapur Morwa Airport, 49.27 km away towards SWW direction		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 6434700/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	3.30 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	18 (Skilled and unskilled persons)		

Proposed Usharala Chak Sand Ghat Project of Area 3.00 Hectare At Village- Usharala Chak, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

LOCATION (MAP SHOWING GENERAL LOCATION, SPECIFIC LOCATION, AND PROJECT BOUNDARY & PROJECT SITE LAYOUT)



Figure: Specific Location of Proposed Sand Ghat

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 3.30 KLD. It will be procured from the supply source of Village- Usharala Chak. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.80
2.	Dust Suppression / Water Sprinkling	1.50
3.	Green belt / Plantation	1.00
Total		3.30

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand	Generation of fugitive dust may lead to Adverse effect of human	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the

Proposed Usharala Chak Sand Ghat Project of Area 3.00 Hectare At Village-Usharala Chak, Tehsil- Mul, District-Chandrapur (Maharashtra)

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		via vehicles or tractor movement Loading and unloading of mineral	health Stomatal index may be minimized due to dust deposit on leaf.	workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling. Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceed beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and	Short-term disturbance of	The green belt/community forestry near river bank and

Proposed Usharala Chak Sand Ghat Project of Area 3.00 Hectare At Village-Usharala Chak, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

		transportation	habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	45,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	80,000/-
3.	Green Belt Development (Rs. 300 per tree)	Along River Bank	3,96,000/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs. 7,48,250/-

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Proposed Virwah Sand Ghat Project of Area 1.57 Hectare At Village Virwah Tehsil-Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.57 ha at River Uma adjoining Gut No. 244 to 248, 252, Mouza: Virwah, Tehsil: Sindewahi, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 56M/09 and falls between the Latitude 19°58'16.42"N – 19°58'18.69"N and Longitude 79°39'56.67"E – 79°39'56.76"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 5565 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Virwah sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	1.57 ha
2.	Proposed Production capacity	5565 Brass/Annum
C	Location Details	

Proposed Virwah Sand Ghat Project of Area 1.57 Hectare At Village Virwah Tehsil-Sindewahi, District-Chandrapur (Maharashtra)

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1.	Village	Virwah		
2.	Tehsil	Sindewahi		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	19°58'16.42"N	79°39'56.67"E
		2	19°58'16.16"N	79°39'39.48"E
		3	19°58'18.42"N	79°39'39.56"E
		4	19°58'18.69"N	79°39'56.76"E
6.	Toposheet No.	56M/09		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Uma		
2.	Nearest Town / City/Village	Nearest Village: Virwah is at a distance of 0.5 Km towards South East from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Sindewahi Railway Station at a distance of ~8.94 km in NW direction from Project Site.		
4.	Nearest Airport	Chandrapur Airport 87 km away towards West.		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 8649300/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.50 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	18 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.50 KLD. It will be procured from the supply source of Village- Virwah. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.50
2.	Dust Suppression / Water Sprinkling	1.0
3.	Green belt / Plantation	1.00
Total		2.50

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged

Proposed Virwah Sand Ghat Project of Area 1.57 Hectare At Village Virwah Tehsil-Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

				idling. Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceeds beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
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Proposed Virwah Sand Ghat Project of Area 1.57 Hectare At Village Virwah Tehsil-Sindewahi, District-Chandrapur (Maharashtra)

Executive Summary

1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	30,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	80,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	2,07,200/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,38,250/-
Total			Rs. 5,45,450/-

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Proposed Vitthalwada-Yenbothla Sand Ghat Project of Area 4.90 Hectare At Village-Vitthalwada-Yenbothla, Tehsil- Gondpatri, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 4.90 ha at River Wainganga River adjoining Gut. No. 356, 357, 359, 158 Mouza: Vitthalwada-Yenbothla, Tehsil: Gondpatri, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 55 N/16 and falls between the Latitude 19°35'4.03"N – 19°35'4.27"N and Longitude 79°38'55.40"E - 79°38'55.87"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 8657 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Vitthalwada-Yenbothla sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	4.90 ha
2.	Proposed Production capacity	8657 Brass/Annum
C	Location Details	

**Proposed Vitthalwada-Yenbothla Sand Ghat Project of Area 4.90 Hectare At Village-
Vitthalwada-Yenbothla, Tehsil- Gondpipri, District-Chandrapur (Maharashtra)**

Executive Summary

1.	Village	Vitthalwada-Yenbothla		
2.	Tehsil	Gondpipri		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	19°42'41.76"N	79°46'56.51"E
		2	19°43'4.11"N	79°46'52.15"E
		3	19°43'4.84"N	79°46'54.44"E
		4	19°42'42.46"N	79°46'58.80"E
6.	Toposheet No.	55 N/16		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Wainganga River		
2.	Nearest Town / City/Village	Nearest Village: Vitthalwada-Yenbothla is at a distance of 1.20 Km towards South from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Virur Railway Station, 7.50 Km away towards East from ML		
4.	Nearest Airport	Nagpur Airport, 131.50 km away towards North		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 13455000/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.80 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	22 (Skilled and unskilled persons)		

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.80 KLD. It will be procured from the supply source of Village- Vitthalwada-Yenbothla. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.50
2.	Dust Suppression / Water Sprinkling	1.30
3.	Green belt / Plantation	1.00

Proposed Vitthalwada-Yenbothla Sand Ghat Project of Area 4.90 Hectare At Village-Vitthalwada-Yenbothla, Tehsil- Gondpipri, District-Chandrapur (Maharashtra)

Executive Summary

Total	2.80
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ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining site.	Noise generation due to vehicular traffic and mining activity	Periodical monitoring of noise will be done. No other equipments except the transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre

Proposed Vitthalwada-Yenbothla Sand Ghat Project of Area 4.90 Hectare At Village-Vitthalwada-Yenbothla, Tehsil- Gondpipri, District-Chandrapur (Maharashtra)

Executive Summary

				noise and to assure continuous traffic flow to avoid prolonged idling. Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.
4.	Land	Mining or extraction of sand and transportation	Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	Safety distance of 3m or 1/4 th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceed beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportation	Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	The green belt/community forestry near river bank and approach road will restrict the fugitive emission.
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

Proposed Vitthalwada-Yenbothla Sand Ghat Project of Area 4.90 Hectare At Village-Vitthalwada-Yenbothla, Tehsil- Gondpipri, District-Chandrapur (Maharashtra)

Executive Summary

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	35,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	10000/-
2.	Road maintenance	Proper Maintenance of Haul road	1,72,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	6,46,800/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,37,250/-
Total			Rs.10,81,050/-

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Proposed Yergaon Sand Ghat Project of Area 3.00 Hectare At Village- Yergaon, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 3.00 ha at River Uma River adjoining Gut. No. 446, 458, 459, 467 Mouza: Yergaon, Tehsil: Mul, District: Chandrapur, Maharashtra in accordance with the Notification of MoEF S.O. 1533 dated 14th September 2006. The Ministry of Environment, Forest and Climate Change amended Principal Notification vide 141(E) dated 15th January 2016 and included Minor Minerals from 0 ha to 50 ha in the Principal Notification S.O. 1533 (E) dated 14.09.2006. Central Government made further amendments to the notification vide S.O. 2269(E) dated 01.07.2016. In obedience all relevant notifications to the principal Notification dated 14th September 2006, application for the excavation of sand ghat from proposed sand ghat is being submitted to SEIAA/SEAC, Maharashtra.

Sand is one of the most sought building materials for the construction purpose. Since Sand has hard texture and durability. It is used chiefly for construction, pavement of roads and imperviousness to moisture and acid. Sand is a perfect countertop material.

The mining for this sand ghat excavation is proposed to be carried out manually with opencast method of mining engaging labours with help of crow bars, hand shovel, pick axes and baskets. Loading will be carried out manually and transportation of mineral from the sand ghat to the depot by tractor with tipper arrangement. As the mineral is soft & loose in nature, drilling and blasting are not required. The proposed sand ghat area is located at Survey of India Toposheet No: 56M/9/NE and falls between the Latitude 19°58'16.73"N – 19°58'18.69"N and Longitude 79°39'56.72"E - 79°39'56.76"E. The lease area is not an agricultural land and the area is classified as River. Maximum production capacity is 5300 Brass.

The Mining Plan and Progressive Mine Closure Plan have been approved by DGM govt. of Maharashtra. Copy of Mining Plan and Progressive Mine Closure Plan.

In order to obtain environmental clearance as per the EIA Notification 2006 the Pre-feasibility Report (PFR) is submitted along with the application Form I M for the project under consideration. The project is categorized as **Category B2** vide Notification 141 (E) dated 15th January 2016.

Table: Salient Features of the Project Site

S. No.	Particulars	Details
A.	Nature of the Project	Proposed Yergaon sand ghat quarry (Minor Mineral)
B.	Size of the Project	
1.	Quarry Area	3.00 ha
2.	Proposed Production capacity	5300 Brass/Annum
C	Location Details	

Proposed Yergaon Sand Ghat Project of Area 3.00 Hectare At Village- Yergaon, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

1.	Village	Yergaon		
2.	Tehsil	Mul		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	Pillar	Latitude	Longitude
		1	19°58'16.73"N	79°39'56.72"E
		2	19°58'16.50"N	79°39'39.49"E
		3	19°58'18.42"N	79°39'39.56"E
		4	19°58'18.69"N	79°39'56.76"E
6.	Toposheet No.	56M/9/NE		
D	Environmental Settings of the Area			
1.	River / water body	The quarry area is itself part of water body i.e. River-Uma River		
2.	Nearest Town / City/Village	Nearest Village: Yergaon is at a distance of 0.30 Km towards South from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Mul Railway Station, 7.50 Km away towards East from ML		
4.	Nearest Airport	Nagpur Airport, 111.50 km away towards North		
5.	State Boundary	No State boundary passes through the project site		
6.	Seismic Zone	Zone – III (Moderate) This is said to be the Moderate Seismic Zone.		
D	Cost Details			
1.	Total Upset Price	Rs. 12972900/-		
E	Requirements of The Project			
1.	Proposed Water Requirement	2.50 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	18 (Skilled and unskilled persons)		

LOCATION (MAP SHOWING GENERAL LOCATION, SPECIFIC LOCATION, AND PROJECT BOUNDARY & PROJECT SITE LAYOUT)



Figure: Specific Location of Proposed Sand Ghat

Proposed Yergaon Sand Ghat Project of Area 3.00 Hectare At Village- Yergaon, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 2.50 KLD. It will be procured from the supply source of Village- Yergaon. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	0.50
2.	Dust Suppression / Water Sprinkling	1.00
3.	Green belt / Plantation	1.00
Total		2.50

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental Parameter	Activities	Predict Impact	EMP/Mitigation Measures
1.	Water	Mining or extraction of sand	Change in flow pattern Increase in depth may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be restricted to 3.0m depth, which will not cause much change in flow pattern of the river. Portable toilets will be used; hence no sewage/ liquid effluent will be generated.
2.	Air	Mining Activity, transportation of sand via vehicles or tractor movement Loading and unloading of mineral	Generation of fugitive dust may lead to Adverse effect of human health Stomatal index may be minimized due to dust deposit on leaf.	Green belt shall be developed within the premises as per CPCB guideline. Dust mask will be provided to the workers engaged. Regular water sprinkling on unpaved road. Levelling of roads will be done to maintain the uniform speed of the trucks/ tippers. The speed of trucks plying on the haul road will be limited and covering of material during transportation. Overloading will be avoided.
3.	Noise	Traffic on nearby road to mining	Noise generation due to vehicular traffic and mining	Periodical monitoring of noise will be done. No other equipments except the

Proposed Yergaon Sand Ghat Project of Area 3.00 Hectare At Village- Yergaon, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

		site.	activity	<p>transportation vehicles will be allowed. Proper maintenance of vehicles and their silencers to minimize vibration and sound. Ear muffs will be provided to workers. Development of effective greenbelt which shall help in noise attenuation. Road surfaces will be maintained in good condition to reduce tyre noise and to assure continuous traffic flow to avoid prolonged idling. Noisy activities will be scheduled at normal working hours (daytime hours) to the extent possible when the environment is least sensitive to noise impact.</p>
4.	Land	Mining or extraction of sand and transportation	<p>Damage of river bank due to access ramps to river bed, may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network</p>	<p>Safety distance of 3m or 1/4th of the width of the river whichever is more will be left from both the bank of the river (as per "Sustainable Sand Mining Guidelines"). Mining will not exceed beyond the allowed extraction capacity. Minimum no. of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.</p>
5.	Ecology	Extraction of sand and transportation	<p>Short-term disturbance of habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat</p>	<p>The green belt/community forestry near river bank and approach road will restrict the fugitive emission.</p>
6.	Traffic Pattern	Increase of vehicular traffic	Traffic due to people coming to visit	<p>Vehicular movement will be regulated inside the project with adequate roads and parking lots in the project.</p>

Proposed Yergaon Sand Ghat Project of Area 3.00 Hectare At Village- Yergaon, Tehsil- Mul, District-Chandrapur (Maharashtra)

Executive Summary

PROVISION FOR CORPORATE SOCIAL RESPONSIBILITY (CSR)

The CSR activities in the proposed project are according with the sand mining policy 03.09.2019.

As per the sand mining policy it is proposed to give an amount of 25% depends upon cost excluding royalty from the lessee action value. The amount paid to the Gram Panchayat of the concerned village is to be spending on expenditure on school and Anganbadi repairs, making of ponds and other necessary works as per the Gram Panchayat. The said amount is payable to the panchayat if the sand ghat is auctioned and excavation took place successfully.

FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures:

S. No.	Particulars/Items	Control Measures	Amount (In Rs.)
1.	Dust generation due to transportation material by. of tractor trolley & transportation of mineral	Environmental Baseline Monitoring (Air, Water, Noise etc.)	45,000/-
		Water Sprinkling	30,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	10000/-
2.	Road maintenance	Proper Maintenance of Haul road	1,08,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	3,96,000/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40,000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	1,38,250/-
Total			Rs. 7,67,250/-

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