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
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**	
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. 1113000/-		
E	**Requirements of The Project**			
1.	Proposed Water Requirement	2.10 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 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	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water

			may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	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. 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	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

			extraction of sand. Surface degradation due to road network	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.

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	15,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	70,000/-
3.	Green Belt Development (Rs. 300 per tree)	Along River Bank	1,03,800/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	76100/-
Total			**Rs. 3,59,100/-**

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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

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.

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 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 1/4th 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.
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.

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	100,000/-
3.	Green Belt Development	Along River Bank	4,86,900/-

	(Rs. 300 per tree)	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.	1,65,000/-
Total			**Rs.08,86,900/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the proposed sand ghat over the area of 1.95 ha at River Andhari adjoining Kh. No. Ajaypur- 163/1, 163/2, 164, 165, 168, 170 Gondsawari - 29, 31, 32, 33, 34, 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.

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	1.95 ha
2.	Proposed Production capacity	3445 Brass/Annum

<table>
<tr><td>C</td><td colspan="2">Location Details</td></tr>
<tr><td>1.</td><td>Village</td><td>Ajaypur - Gondsawari</td></tr>
<tr><td>2.</td><td>Tehsil</td><td>Chandrapur</td></tr>
<tr><td>3.</td><td>District</td><td>Chandrapur</td></tr>
<tr><td>4.</td><td>State</td><td>Maharashtra</td></tr>
<tr><td>5.</td><td>Latitude & Longitude</td><td>
<table>
<tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr>
<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>
</table>
</td></tr>
<tr><td>6.</td><td>Toposheet No.</td><td>55P/12</td></tr>
<tr><td>D</td><td colspan="2">Environmental Settings of the Area</td></tr>
<tr><td>1.</td><td>River / water body</td><td>The quarry area is itself part of water body i.e. River-Andhari</td></tr>
</table>

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. 2067000/-
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)

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. N0.	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 3.0 m 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. 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 1/4th 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.
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.

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	70,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	1,92,900/-
		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.	81500/-
Total			**Rs. 4,03,900/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 4.50 ha at River Wainganga adjoining Gut No. 1050, 1051/1, 1051/2, 1051/3, 1052, 1053, 1054 Mouza: Anhernawargaon Awali, 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.

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 Anhernawargaon Awali sand ghat quarry (Minor Mineral)
B.	**Size of the Project**	
1.	Quarry Area	4.50 ha
2.	Proposed Production capacity	23852 Brass/Annum
C	**Location Details**	
1.	Village	Anhernawargaon Awali
2.	Tehsil	Bramhpuri
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>20°40'41.44"N</td><td>79°53'59.44"E</td></tr><tr><td>2</td><td>20°40'31.21"N</td><td>79°54'10.56"E</td></tr><tr><td>3</td><td>20°40'33.57"N</td><td>79°54'12.92"E</td></tr><tr><td>4</td><td>20°40'43.78"N</td><td>79°54'1.83"E</td></tr></table>
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 awali is about 3.0 km in NW direction from the awali sand ghat Site.
3.	Nearest Railway Station	Talodhi Railway Station at a distance of ~ 30.0 km in NW direction from awali 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. 14311200/-
E	**Requirements of The Project**	
1.	Proposed Water Requirement	4.50 KLD
2.	Fuel requirement	N/A
3.	Man Power Requirement	28 (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	1.90
2.	Dust Suppression / Water Sprinkling	1.60
3.	Green belt / Plantation	1.00
Total		**4.50**

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 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 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	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").

			bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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	1,00,000/-
3.	Green Belt Development (Rs. 300 per tree)	Along River Bank	4,86,900/-
		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.	1,65,000/-
Total			**Rs. 8,35,500/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 4.50 ha at River Wainganga adjoining Gut No. 242, 241, 240, 811, 812 Mouza: Anhernawargaon Bhaleshwar, 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.

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 Anhernawargaon Bhaleshwar sand ghat quarry (Minor Mineral)
B.	**Size of the Project**	
1.	Quarry Area	4.50 ha
2.	Proposed Production capacity	23852 Brass/Annum
C	**Location Details**	
1.	Village	Anhernawargaon Bhaleshwar
2.	Tehsil	Bramhpuri
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>20°40'56.32"N</td><td>79°52'24.45"E</td></tr><tr><td>2</td><td>20°40'59.90"N</td><td>79°52'39.52"E</td></tr><tr><td>3</td><td>20°41'2.97"N</td><td>79°52'38.36"E</td></tr><tr><td>4</td><td>20°40'59.38"N</td><td>79°52'23.29"E</td></tr></table>
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 Bhaleshwari about 3.0 km in NW direction from the Bhaleshwar sand ghat Site.
3.	Nearest Railway Station	Talodhi Railway Station at a distance of ~ 30.0 km in NW direction from Bhaleshwar 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. 14311200/-
E	**Requirements of The Project**	
1.	Proposed Water Requirement	4.50 KLD
2.	Fuel requirement	N/A
3.	Man Power Requirement	28 (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	1.90
2.	Dust Suppression / Water Sprinkling	1.60
3.	Green belt / Plantation	1.00
Total		**4.50**

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 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 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.	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").

			Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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	1,00,000/-
3.	Green Belt Development (Rs. 300 per tree)	Along River Bank	4,86,900/-
		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.	1,65,000/-
Total			**Rs. 8,35,500/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 4.50 ha at River Wainganga adjoining Gut No. 820, 825, 826, 827, 828, 829 Mouza: Anhernawargaon Chikhaldhokla, 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.

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 Anhernawargaon Chikhaldhokla sand ghat quarry (Minor Mineral)
B.	**Size of the Project**	
1.	Quarry Area	4.50 ha
2.	Proposed Production capacity	23852 Brass/Annum
C	**Location Details**	
1.	Village	Anhernawargaon Chikhaldhokla
2.	Tehsil	Bramhpuri
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>20°41'11.57"N</td><td>79°53'19.79"E</td></tr><tr><td>2</td><td>20°41'5.79"N</td><td>79°53'34.08"E</td></tr><tr><td>3</td><td>20°41'8.71"N</td><td>79°53'35.56"E</td></tr><tr><td>4</td><td>20°41'14.50"N</td><td>79°53'21.29"E</td></tr></table>
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 Chikhaldhoklais about 3.0 km in NW direction from the Chikhaldhoklasand ghat Site.
3.	Nearest Railway Station	Talodhi Railway Station at a distance of ~ 30.0 km in NW direction from Chikhaldhoklasand 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. 14311200/-
E	**Requirements of The Project**	
1.	Proposed Water Requirement	4.50 KLD
2.	Fuel requirement	N/A
3.	Man Power Requirement	28 (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	1.90
2.	Dust Suppression / Water Sprinkling	1.60
3.	Green belt / Plantation	1.00
Total		**4.50**

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 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 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.	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").

			Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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	1,00,000/-
3.	Green Belt Development (Rs. 300 per tree)	Along River Bank	4,86,900/-
		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.	1,65,000/-
Total			**Rs. 8,35,500/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.50 ha at River Andhari adjoining Gut No. 329, 331, 332 Mouza: Ashta, 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/07.

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

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th></tr>
<tr><td>A.</td><td>Nature of the Project</td><td>Proposed Ashta sand ghat quarry (Minor Mineral)</td></tr>
<tr><td>B.</td><td colspan="2">Size of the Project</td></tr>
<tr><td>1.</td><td>Quarry Area</td><td>1.50 ha</td></tr>
<tr><td>2.</td><td>Proposed Production capacity</td><td>2650 Brass/Annum</td></tr>
<tr><td>C</td><td colspan="2">Location Details</td></tr>
<tr><td>1.</td><td>Village</td><td>Ashta</td></tr>
<tr><td>2.</td><td>Tehsil</td><td>Chandrapur</td></tr>
<tr><td>3.</td><td>District</td><td>Chandrapur</td></tr>
<tr><td>4.</td><td>State</td><td>Maharashtra</td></tr>
<tr><td>5.</td><td>Latitude & Longitude</td><td>
<table>
<tr><th>Sr. No</th><th>Latitude “N”</th><th>Longitude “E”</th></tr>
<tr><td>1</td><td>19°50'30.71"N</td><td>79°40'29.33"E</td></tr>
</table>
</td></tr>
</table>

		2 19°50'21.18"N 79°40'27.11"E 3 19°50'20.77"N 79°40'28.78"E 4 19°50'30.30"N 79°40'30.98"E
6.	Toposheet No.	56M/07
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: Ashta 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 16.0 km in W direction from Ashta 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. 2915400/-
E	**Requirements of The Project**	
1.	Proposed Water Requirement	2.60 KLD
2.	Fuel requirement	N/A
3.	Man Power Requirement	17 (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**

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	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime.

			flow velocity Change in surface water quality and ground water quality Waste water discharge	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. 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	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

			extraction of sand. Surface degradation due to road network	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.

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	1,00,000/-
3.	Green Belt Development (Rs. 300 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.	93250/-
Total			**Rs. 5,55,850/-**

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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.

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**	
1.	Village	Bamarda
2.	Tehsil	Warora
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>19°58'16.42"N</td><td>79°39'56.67"E</td></tr><tr><td>2</td><td>19°58'16.16"N</td><td>79°39'39.48"E</td></tr><tr><td>3</td><td>19°58'18.42"N</td><td>79°39'39.56"E</td></tr><tr><td>4</td><td>19°58'18.69"N</td><td>79°39'56.76"E</td></tr></table>
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. 5088600/-
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**

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. 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.	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

			Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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	4,75,200/-
		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.	93,250/-
Total			**Rs. 7,63,450/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 4.50 ha at River Wainganga adjoining Gut No. 270, 272, 286, 287/1, 287/2, 292, Mouza: Belgaon jaani, 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.

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 Belgaon jaani sand ghat quarry (Minor Mineral)
B.	**Size of the Project**	
1.	Quarry Area	4.50 ha
2.	Proposed Production capacity	15901 Brass/Annum
C	**Location Details**	
1.	Village	Belgaon jaani
2.	Tehsil	Bramhpuri
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>20°42'59.44"N</td><td>79°47'12.85"E</td></tr><tr><td>2</td><td>20°42'45.64"N</td><td>79°47'18.04"E</td></tr><tr><td>3</td><td>20°42'46.93"N</td><td>79°47'21.21"E</td></tr><tr><td>4</td><td>20°43'0.72"N</td><td>79°47'16.02"E</td></tr></table>
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: Belgaon jaani is about 0.50 km in South West direction from the Belgaon jaani sand ghat Site.
3.	Nearest Railway Station	Brahmpuri Railway Station at a distance of ~ 19.0 km in NW direction from Belgaon jaani 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. 9540600/-
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- Belgaon jaani. 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**

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental	Activities	Predict Impact	EMP/Mitigation Measures

	Parameter			
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 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	Damage of river bank due to access ramps	Safety distance of 3m or 1/4th of the width of the river whichever is more

		sand and transportation	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	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.

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	10,000/-
2.	Road maintenance	Proper Maintenance of Haul road	1,20,000/-
3.	Green Belt Development (Rs. 300 per tree)	Along River Bank	4,45,500/-
		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.	1,63,300/-
Total			**Rs. 8,68,800/-**

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Proposed Bhejgaon Sand Ghat Project of Area 2.40 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 2.40 ha at River Uma adjoining Kh. No. 168, 177 to 179, 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.
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

<table>
<tr><th>S.No.</th><th>Particulars</th><th colspan="3">Details</th></tr>
<tr><td>A.</td><td>Nature of the Project</td><td colspan="3">Proposed Bhejgaon Sand Ghat quarry (Minor Mineral)</td></tr>
<tr><td>B.</td><td colspan="4">Size of the Project</td></tr>
<tr><td>1.</td><td>Quarry Area</td><td colspan="3">2.40 ha</td></tr>
<tr><td>2.</td><td>Proposed Production capacity</td><td colspan="3">4240 Brass/Annum</td></tr>
<tr><td>C</td><td colspan="4">Location Details</td></tr>
<tr><td>1.</td><td>Village</td><td colspan="3">Bhejgaon</td></tr>
<tr><td>2.</td><td>Tehsil</td><td colspan="3">Mul</td></tr>
<tr><td>3.</td><td>District</td><td colspan="3">Chandrapur</td></tr>
<tr><td>4.</td><td>State</td><td colspan="3">Maharashtra</td></tr>
<tr><td>5.</td><td>Latitude & Longitude</td><td>Pillar</td><td>Latitude</td><td>Longitude</td></tr>
<tr><td></td><td></td><td>BP1</td><td>19°58'56.74"N</td><td>79°40'31.49"E</td></tr>
</table>

		BP2	19°59'9.74"N	79°40'31.88"E
		BP3	19°59'9.78"N	79°40'29.82"E
		BP4	19°58'56.78"N	79°40'29.42"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. 2544000/-		
E	**Requirements of The Project**			
1.	Proposed Water Requirement	2.50 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	20(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- 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	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

			water quality and ground water quality Waste water discharge	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. 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.	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

			Surface degradation due to road network	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.

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	1,00,000/-
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.	81,500/-
Total			**Rs. 5,44,100/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 2.50 ha at River Venganga adjoining Gut No. 169, 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.

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	2.50 ha
2.	Proposed Production capacity	13251 Brass/Annum
C	**Location Details**	
1.	Village	Bodhegaon
2.	Tehsil	Bramhpuri
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>20°34'8.53"N</td><td>79°55'43.93"E</td></tr><tr><td>2</td><td>20°34'0.85"N</td><td>79°55'41.10"E</td></tr><tr><td>3</td><td>20°33'59.61"N</td><td>79°55'44.29"E</td></tr><tr><td>4</td><td>20°34'7.29"N</td><td>79°55'47.11"E</td></tr></table>
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. 7950600/-
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**

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. 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	Damage of river bank due to access ramps	Safety distance of 3m or 1/4th of the width of the river whichever is more

		of sand and transportation	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	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.

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	8000/-
2.	Road maintenance	Proper Maintenance of Haul road	80,000/-
3.	Green Belt Development (Rs. 300 per tree)	Along River Bank	2,47,500/-
		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.	1,42,300/-
Total			**Rs. 5,97,800/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 4.90 ha at River Wainganga adjoining Gut. No. 680, 682 to 686, 753 Mouza: Loandoli 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.

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 Bormala-1 sand ghat quarry (Minor Mineral)
B.	**Size of the Project**	
1.	Quarry Area	4.90 ha
2.	Proposed Production capacity	25972 Brass/Annum
C	**Location Details**	
1.	Village	Bormala-1
2.	Tehsil	Sawali
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	**Pillar** / **Latitude** / **Longitude** 1 / 20°12'45.32"N / 79°59'5.35"E 2 / 20°12'37.44"N / 79°58'50.68"E 3 / 20°12'34.58"N / 79°58'52.32"E 4 / 20°12'42.48"N / 79°59'6.98"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: Bormala at a distance of 1.20 Km towards South from the Mining area.
3.	Nearest Railway Station	The nearest railway station is located Sindewahi Railway Station, 17.50 Km away towards East from ML
4.	Nearest Airport	Nagpur Airport, 129.50 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. 155832200/-
E	**Requirements of The Project**	
1.	Proposed Water Requirement	4.80 KLD
2.	Fuel requirement	N/A
3.	Man Power Requirement	42 (Skilled and unskilled persons)

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 4.80 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	1.80
2.	Dust Suppression / Water Sprinkling	1.00
3.	Green belt / Plantation	2.00
Total		**4.80**

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental	Activities	Predict Impact	EMP/Mitigation Measures

	Parameter			
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. 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	Damage of river bank	Safety distance of 3m or 1/4th of the

		extraction of sand and transportation	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	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.

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	100,000/-
3.	Green Belt Development (Rs. 300 per tree)	Along River Bank	4,85,100/-
		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.	1,22,300/-
Total			**Rs. 8,92,400/-**

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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. 680, 682 to 686, 753 Mouza: BormalaTehsil: 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.

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 Bormala-2 sand ghat quarry (Minor Mineral)
B.	**Size of the Project**	
1.	Quarry Area	2.40 ha
2.	Proposed Production capacity	10601 Brass/Annum
C	**Location Details**	
1.	Village	Bormala
2.	Tehsil	Sawali
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>20°12'33.98"N</td><td>79°58'22.26"E</td></tr><tr><td>2</td><td>20°12'33.84"N</td><td>79°58'13.66"E</td></tr><tr><td>3</td><td>20°12'31.25"N</td><td>79°58'13.55"E</td></tr><tr><td>4</td><td>20°12'31.39"N</td><td>79°58'22.16"E</td></tr></table>
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: Bormala at a distance of 1.20 Km towards South from the Mining area.
3.	Nearest Railway Station	The nearest railway station is located Sindewahi Railway Station, 17.50 Km away towards East from ML
4.	Nearest Airport	Nagpur Airport, 129.50 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. 155832200/-
E	**Requirements of The Project**	
1.	Proposed Water Requirement	4.20 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 4.20 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	1.20
2.	Dust Suppression / Water Sprinkling	1.00
3.	Green belt / Plantation	2.00
Total		**4.20**

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. 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	Damage of river bank due to access ramps	Safety distance of 3m or 1/4th of the width of the river whichever is more

		of sand and transportation	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	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.

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	100,000/-
3.	Green Belt Development (Rs. 300 per tree)	Along River Bank	4,85,100/-
		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.	1,22,300/-
Total			**Rs. 8,92,400/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 2.50 ha at River Andhari adjoining Gut No. 26 Mouza: Chak ballarpur, 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/07.

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

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th></tr>
<tr><td>A.</td><td>Nature of the Project</td><td>Proposed Chak ballarpur-1 sand ghat quarry (Minor Mineral)</td></tr>
<tr><td>B.</td><td colspan="2">Size of the Project</td></tr>
<tr><td>1.</td><td>Quarry Area</td><td>2.50 ha</td></tr>
<tr><td>2.</td><td>Proposed Production capacity</td><td>4417 Brass/Annum</td></tr>
<tr><td>C</td><td colspan="2">Location Details</td></tr>
<tr><td>1.</td><td>Village</td><td>Chak ballarpur-1</td></tr>
<tr><td>2.</td><td>Tehsil</td><td>Chandrapur</td></tr>
<tr><td>3.</td><td>District</td><td>Chandrapur</td></tr>
<tr><td>4.</td><td>State</td><td>Maharashtra</td></tr>
<tr><td>5.</td><td>Latitude & Longitude</td><td>
<table>
<tr><th>Sr. No</th><th>Latitude “N”</th><th>Longitude “E”</th></tr>
<tr><td>1</td><td>19°50'30.71"N</td><td>79°40'29.33"E</td></tr>
</table>
</td></tr>
</table>

		2 19°50'21.18"N 79°40'27.11"E 3 19°50'20.77"N 79°40'28.78"E 4 19°50'30.30"N 79°40'30.98"E
6.	Toposheet No.	56M/07
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 ballarpur-1 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 16.0 km in W direction from Chak ballarpur-1 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. 2915400/-
E	**Requirements of The Project**	
1.	Proposed Water Requirement	2.60 KLD
2.	Fuel requirement	N/A
3.	Man Power Requirement	17 (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**

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	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime.

			flow velocity Change in surface water quality and ground water quality Waste water discharge	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. 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	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

			extraction of sand. Surface degradation due to road network	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.

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	1,00,000/-
3.	Green Belt Development (Rs. 300 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.	93250/-
Total			**Rs. 5,65,850/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 2.40 ha at River Andhari adjoining Gut No. 314 Mouza: Chak ballarpur, 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/07.

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

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th></tr>
<tr><td>A.</td><td>Nature of the Project</td><td>Proposed Chak ballarpur-2 sand ghat quarry (Minor Mineral)</td></tr>
<tr><td>B.</td><td colspan="2">Size of the Project</td></tr>
<tr><td>1.</td><td>Quarry Area</td><td>2.40 ha</td></tr>
<tr><td>2.</td><td>Proposed Production capacity</td><td>4240 Brass/Annum</td></tr>
<tr><td>C</td><td colspan="2">Location Details</td></tr>
<tr><td>1.</td><td>Village</td><td>Chak ballarpur</td></tr>
<tr><td>2.</td><td>Tehsil</td><td>Chandrapur</td></tr>
<tr><td>3.</td><td>District</td><td>Chandrapur</td></tr>
<tr><td>4.</td><td>State</td><td>Maharashtra</td></tr>
<tr><td>5.</td><td>Latitude & Longitude</td><td>
<table>
<tr><th>Sr. No</th><th>Latitude “N”</th><th>Longitude “E”</th></tr>
<tr><td>1</td><td>19°49'28.36"N</td><td>79°40'21.77"E</td></tr>
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		2 19°49'10.95"N 79°40'31.08"E 3 19°49'11.51"N 79°40'32.30"E 4 19°49'28.94"N 79°40'23.00"E
6.	Toposheet No.	56M/07
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 ballarpur-1 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 16.0 km in W direction from Chak ballarpur-1 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. 2544000/-
E	**Requirements of The Project**	
1.	Proposed Water Requirement	2.60 KLD
2.	Fuel requirement	N/A
3.	Man Power Requirement	17 (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**

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	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime.

			flow velocity Change in surface water quality and ground water quality Waste water discharge	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. 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	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

			extraction of sand. Surface degradation due to road network	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.

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	1,00,000/-
3.	Green Belt Development (Rs. 300 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.	93250/-
Total			**Rs. 5,65,850/-**

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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 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**			
1.	Village	Chak Dahegaon		
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. 1324800/-		
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- 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	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime.

			flow velocity Change in surface water quality and ground water quality Waste water discharge	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. 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	Damage of river bank due to access	Safety distance of 3m or $1/4^{th}$ of the width of the river whichever is

		of sand and transportation	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	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.

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. 4,26,700/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 4.90 ha at River Andhari adjoining Gut No. 178, 179, 180, Mouza: Chak likhithwada, 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
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 likhithwada sand ghat quarry (Minor Mineral)
B.	**Size of the Project**	
1.	Quarry Area	4.90 ha
2.	Proposed Production capacity	17314 Brass/Annum
C	**Location Details**	
1.	Village	Chak likhithwada
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-Andhari		
2.	Nearest Town / City/Village	Nearest Village: Chak likhithwada is at a distance of 1.0 Km towards South West from the Mining area.		
3.	Nearest Railway Station	Makudi Railway Station at a distance of 11.0 km in SW direction from Chak likhithwada sand ghat Site.		
4.	Nearest Airport	Nagpur Airport 165 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. 1113000/-		
E	**Requirements of The Project**			
1.	Proposed Water Requirement	2.10 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 2.10 KLD. It will be procured from the supply source of Village-Chak likthwada. 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	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime.

			flow velocity Change in surface water quality and ground water quality Waste water discharge	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. 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.	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

			Surface degradation due to road network	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.

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	10,000/-
2.	Road maintenance	Proper Maintenance of Haul road	1,00,000/-
3.	Green Belt Development (Rs. 300 per tree)	Along River Bank	1,03,800/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc.)	40000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	76100/-
Total			**Rs. 3,59,100/-**

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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. 97 to 100, 97/1,97/2, 97/3, 102 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.

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**	
1.	Village	Chak Naleshwar
2.	Tehsil	Mul
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>19°58'11.84"N</td><td>79°37'22.26"E</td></tr><tr><td>2</td><td>19°57'57.69"N</td><td>79°37'26.01"E</td></tr><tr><td>3</td><td>19°57'57.47"N</td><td>79°37'25.19"E</td></tr><tr><td>4</td><td>19°58'11.60"N</td><td>79°37'21.47"E</td></tr></table>
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. 1272000/-
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**

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. 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	Damage of river bank due to access ramps to river bed,	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

		transportation	may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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	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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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.20 ha at River Chak somanpalli Nallah adjoining Gut No. 104,105 Mouza: Chak somanpalli, 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.

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 somanpalli 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**	
1.	Village	Chak somanpalli
2.	Tehsil	Gondpipri
3.	District	Chandrapur
4.	State	Maharashtra
5.	Latitude & Longitude	**Pillar** | **Latitude** | **Longitude** 1 | 19°35'25.22"N | 79°38'48.39"E

		2	19°35'9.58"N	79°38'53.08"E
		3	19°35'25.59"N	79°38'49.35"E
		4	19°35'9.95"N	79°38'54.04"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- Chak somanpalli Nallah		
2.	Nearest Town / City/Village	Nearest Village: Hiwara-1 village is about 2.0 km in West direction from the dhaba sand ghat Site.		
3.	Nearest Railway Station	Shirpur Railway Station at a distance of ~ 14.0 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. 1272000/-		
E	**Requirements of The Project**			
1.	Proposed Water Requirement	2.35 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 2.35 KLD. It will be procured from the supply source of Village- Dhaba. 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**

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	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime.

			flow velocity Change in surface water quality and ground water quality Waste water discharge	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. 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.	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.

			Surface degradation due to road network	
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.

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	1,00,000/-
3.	Green Belt Development (Rs. 300 per tree)	Along River Bank	1, 18, 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.	76,100/-
Total			**Rs. 4,64,000/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 4.50 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.

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	4.50 ha
2.	Proposed Production capacity	15901 Brass/Annum
C	**Location Details**	
1.	Village	Chichgaon
2.	Tehsil	Bramhpuri
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>20°27'10.83"N</td><td>79°56'19.12"E</td></tr><tr><td>2</td><td>20°26'56.24"N</td><td>79°56'17.89"E</td></tr><tr><td>3</td><td>20°26'55.90"N</td><td>79°56'21.30"E</td></tr><tr><td>4</td><td>20°27'10.48"N</td><td>79°56'22.56"E</td></tr></table>
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. 9540600/-
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**

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. 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	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

			erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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	10,000/-
2.	Road maintenance	Proper Maintenance of Haul road	1,20,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	4,45,500/-
		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.	1,63,300/-
Total			**Rs. 8,68,800/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 2.40 ha at River Wardha adjoining Gut No. 15 to 19, 22, Mouza: Daheli 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/12
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 Daheli sand ghat quarry (Minor Mineral)
B.	**Size of the Project**	
1.	Quarry Area	2.40 ha
2.	Proposed Production capacity	4240 Brass/Annum
C	**Location Details**	
1.	Village	Daheli
2.	Tehsil	Gondpipri
3.	District	Chandrapur
4.	State	Maharashtra
5.	Latitude & Longitude	**Sr. No** / **Latitude "N"** / **Longitude "E"**: 1 / 19°48'50.47"N / 79°23'10.95"E

		2	19°48'51.93"N	79°23'31.51"E
		3	19°48'50.63"N	79°23'31.50"E
		4	19°48'49.17"N	79°23'10.94"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 1.0 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. 2544000/-		
E	**Requirements of The Project**			
1.	Proposed Water Requirement	2.80 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	17 (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-Aarvi. 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	1.0
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	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water

			may increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	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 equipment's 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	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

			extraction of sand. Surface degradation due to road network	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.

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	1,00,000/-
3.	Green Belt Development (Rs. 300 per tree)	Along River Bank	2,37,600/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	93,250/-
Total			**Rs. 5,55,850/-**

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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. 369, Mouza: Dhaba, 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
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

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th></tr>
<tr><td>A.</td><td>Nature of the Project</td><td>Proposed Dhaba sand ghat quarry (Minor Mineral)</td></tr>
<tr><td>B.</td><td colspan="2">Size of the Project</td></tr>
<tr><td>1.</td><td>Quarry Area</td><td>2.10 ha</td></tr>
<tr><td>2.</td><td>Proposed Production capacity</td><td>1855 Brass/Annum</td></tr>
<tr><td>C</td><td colspan="2">Location Details</td></tr>
<tr><td>1.</td><td>Village</td><td>Dhaba</td></tr>
<tr><td>2.</td><td>Tehsil</td><td>Gondpipri</td></tr>
<tr><td>3.</td><td>District</td><td>Chandrapur</td></tr>
<tr><td>4.</td><td>State</td><td>Maharashtra</td></tr>
<tr><td>5.</td><td>Latitude & Longitude</td><td>
<table>
<tr><th>Sr. No</th><th>Latitude “N”</th><th>Longitude “E”</th></tr>
<tr><td>1</td><td>19°36'15.02"N</td><td>79°38'46.95"E</td></tr>
<tr><td>2</td><td>19°36'5.50"N</td><td>79°38'53.54"E</td></tr>
</table>
</td></tr>
</table>

		3	19°36'4.12"N	79°38'52.01"E
		4	19°36'13.67"N	79°38'45.46"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-Dhaba nalla		
2.	Nearest Town / City/Village	Nearest Village: Dhaba is at a distance of 1.0 Km towards South West from the Mining area.		
3.	Nearest Railway Station	Makudi Railway Station at a distance of 9.0 km in SW direction from Dhaba 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. 2226000/-		
E	**Requirements of The Project**			
1.	Proposed Water Requirement	2.60 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 2.60 KLD. It will be procured from the supply source of Village-Dhaba. 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	0.70
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	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime.

			flow velocity Change in surface water quality and ground water quality Waste water discharge	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. 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.	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

			Surface degradation due to road network	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.

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	15,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	5000/-
2.	Road maintenance	Proper Maintenance of Haul road	70,000/-
3.	Green Belt Development (Rs. 300 per tree)	Along River Bank	1,03,800/-
		Along haul road	
4.	Security	Display Boards and other security measures (CCTV, Fencing etc)	40000/-
5.	Occupational Health	Provision of PPE Kits and Periodic health check-up, Temporary Shed, Mobile toilet etc.	76100/-
Total			**Rs. 3,59,100/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.44 ha at River Wardha adjoining Gut no. 139,140,141 Mouza: Dindoda soit, 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.

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 Dindoda soit sand ghat quarry (Minor Mineral)
B.	**Size of the Project**	
1.	Quarry Area	2.0 ha
2.	Proposed Production capacity	7067 Brass/Annum
C	**Location Details**	
1.	Village	Dindoda soit
2.	Tehsil	Warora
3.	District	Chandrapur
4.	State	Maharashtra
5.	Latitude & Longitude	**Pillar** / **Latitude** / **Longitude**: 1 / 20°17'14.23"N / 78°48'38.08"E

		2	20°17'8.68"N	78°48'44.39"E
		3	20°17'6.56"N	78°48'42.76"E
		4	20°17'12.12"N	78°48'36.46"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: soit 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, 14.65 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. 4240200/-		
E	**Requirements of The Project**			
1.	Proposed Water Requirement	2.30 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	19 (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- 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 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. 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	Damage of river bank due to access ramps to river bed,	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

		transportation	may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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	1,00,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	1,99,800/-
		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.	133,100/-
	Total		**Rs. 5,62,900/-**

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.20 ha at River Uma River adjoining Gut. No. 228, 236 Mouza: Dongargaon, 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.

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 Dongargaon 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**	
1.	Village	Dongargaon
2.	Tehsil	Mul
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	Pillar / Latitude / Longitude 1 / 20°11'5.68"N / 79°39'39.69"E 2 / 20°10'45.57"N / 79°39'50.98"E 3 / 20°10'44.86"N / 79°39'50.22"E 4 / 20°11'4.97"N / 79°39'38.92"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: Dongargaon 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. 1272000/-
E	**Requirements of The Project**	
1.	Proposed Water Requirement	3.10 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 3.10 KLD. It will be procured from the supply source of Village- Dongargaon. 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 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. 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	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

			extraction of sand. Surface degradation due to road network	avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportatio n	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.

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. 300 per tree)	Along River Bank	1,18,800/-
		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.	81,500/
Total			**Rs. 4,03,000/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 4.80 ha at River Wainganga adjoining Gut No. 89, 90, 91, 96, 97, 959, 958, 954, Mouza: Halda-1, 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.

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	4.80 ha
2.	Proposed Production capacity	16961 Brass/Annum
C	**Location Details**	
1.	Village	Halda-1
2.	Tehsil	Bramhpuri
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>20°20'18.21"N</td><td>79°57'40.37"E</td></tr><tr><td>2</td><td>20°20'9.04"N</td><td>79°57'26.98"E</td></tr><tr><td>3</td><td>20°20'6.16"N</td><td>79°57'28.63"E</td></tr><tr><td>4</td><td>20°20'15.34"N</td><td>79°57'42.01"E</td></tr></table>
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. 10176600/-
E	**Requirements of The Project**	
1.	Proposed Water Requirement	4.50 KLD
2.	Fuel requirement	N/A
3.	Man Power Requirement	28 (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	1.90
2.	Dust Suppression / Water Sprinkling	1.60
3.	Green belt / Plantation	1.00
Total		**4.50**

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 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 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	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").

			bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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	1,00,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	4,86,900/-
		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.	1,65,000/-
Total			**Rs. 8,35,500/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 4.50 ha at River Wainganga adjoining Gut No. 915,950,951, 933 to 938 Mouza: Halda-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.

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	4.50 ha
2.	Proposed Production capacity	23852 Brass/Annum
C	**Location Details**	
1.	Village	Halda-2
2.	Tehsil	Bramhpuri
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>20°20'48.81"N</td><td>79°58'9.34"E</td></tr><tr><td>2</td><td>20°20'36.05"N</td><td>79°58'1.74"E</td></tr><tr><td>3</td><td>20°20'34.08"N</td><td>79°58'4.53"E</td></tr><tr><td>4</td><td>20°20'46.87"N</td><td>79°58'12.11"E</td></tr></table>
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. 14311200/-
E	**Requirements of The Project**	
1.	Proposed Water Requirement	4.50 KLD
2.	Fuel requirement	N/A
3.	Man Power Requirement	28 (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	1.90
2.	Dust Suppression / Water Sprinkling	1.60
3.	Green belt / Plantation	1.00
Total		**4.50**

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 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 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	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").

			bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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	1,00,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	4,86,900/-
		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.	1,65,000/-
Total			**Rs. 8,35,500/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 2.50 ha at River Wainganga adjoining Gut No. 912, 910, 909 Mouza: Halda-3, 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.

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-3 sand ghat quarry (Minor Mineral)
B.	**Size of the Project**	
1.	Quarry Area	2.50 ha
2.	Proposed Production capacity	8834 Brass/Annum
C	**Location Details**	
1.	Village	Halda
2.	Tehsil	Bramhpuri
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>20°21'43.94"N</td><td>79°58'6.50"E</td></tr><tr><td>2</td><td>20°21'51.57"N</td><td>79°58'3.53"E</td></tr><tr><td>3</td><td>20°21'52.72"N</td><td>79°58'6.74"E</td></tr><tr><td>4</td><td>20°21'45.10"N</td><td>79°58'9.73"E</td></tr></table>
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. 5300400/-
E	**Requirements of The Project**	
1.	Proposed Water Requirement	4.50 KLD
2.	Fuel requirement	N/A
3.	Man Power Requirement	28 (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	1.90
2.	Dust Suppression / Water Sprinkling	1.60
3.	Green belt / Plantation	1.00
Total		**4.50**

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 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 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	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").

			bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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	1,00,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	4,86,900/-
		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.	1,65,000/-
Total			**Rs. 8,35,500/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.20 ha at River Uma River adjoining Gut. No. 228, 236 Mouza: Haldigaon ganna, 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.

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 Haldigaon ganna sand ghat quarry (Minor Mineral)
B.	**Size of the Project**	
1.	Quarry Area	1.20 ha
2.	Proposed Production capacity	4240 Brass/Annum
C	**Location Details**	
1.	Village	Haldigaon ganna
2.	Tehsil	Mul
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>20° 0'28.97"N</td><td>79°41'33.70"E</td></tr><tr><td>2</td><td>20° 0'33.67"N</td><td>79°41'38.46"E</td></tr><tr><td>3</td><td>20° 0'32.54"N</td><td>79°41'40.16"E</td></tr><tr><td>4</td><td>20° 0'27.84"N</td><td>79°41'35.40"E</td></tr></table>
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: Haldigaon ganna 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. 2544000/-
E	**Requirements of The Project**	
1.	Proposed Water Requirement	3.10 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 3.10 KLD. It will be procured from the supply source of Village- Haldigaon 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	1.60
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 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. 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	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

			extraction of sand. Surface degradation due to road network	avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportatio n	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.

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. 300 per tree)	Along River Bank	1,18,800/-
		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.	81,500/
Total			**Rs. 4,03,000/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.50 ha at River Hivira Nallah adjoining Gut No. 297, 298, 280, 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.

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	1.50 ha
2.	Proposed Production capacity	2650 Brass/Annum
C	**Location Details**	
1.	Village	Hivira-1
2.	Tehsil	Gondpipri
3.	District	Chandrapur
4.	State	Maharashtra
5.	Latitude & Longitude	**Pillar** | **Latitude** | **Longitude** 1 | 19°35'25.22"N | 79°38'48.39"E

		2	19°35'9.58"N	79°38'53.08"E
		3	19°35'25.59"N	79°38'49.35"E
		4	19°35'9.95"N	79°38'54.04"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**

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	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime.

			flow velocity Change in surface water quality and ground water quality Waste water discharge	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. 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.	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.

			Surface degradation due to road network	
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.

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	1,80,000/-
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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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 2.0 ha at River Wardha adjoining Gut No. 128 to 131, 154, 156 Mouza: Jenaniwali , 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.

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 Jenaniwali sand ghat quarry (Minor Mineral)
B.	**Size of the Project**	
1.	Quarry Area	2.0 ha
2.	Proposed Production capacity	3534 Brass/Annum
C	**Location Details**	
1.	Village	Jenaniwali
2.	Tehsil	Bhadravati
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>20°17'58.57"N</td><td>79°12'50.71"E</td></tr><tr><td>2</td><td>20°17'45.30"N</td><td>79°12'54.14"E</td></tr><tr><td>3</td><td>20°17'45.55"N</td><td>79°12'54.96"E</td></tr><tr><td>4</td><td>20°17'58.82"N</td><td>79°12'51.53"E</td></tr></table>
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: Jenaniwali 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 Jenaniwali 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. 1113000/-
E	**Requirements of The Project**	
1.	Proposed Water Requirement	2.60 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 2.60 KLD. It will be procured from the supply source of Village- Jenaniwali . 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		**2.60**

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, 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. 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.	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").

			Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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. 300 per tree)	Along River Bank	1,99,800/-
		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.	1,16,100/-
Total			**Rs.5,20,900/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.25 ha at River Andhari adjoining Gut No. 7, 8, 718 Mouza: Jungaon, 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/07.

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 Jungaon sand ghat quarry (Minor Mineral)
B.	**Size of the Project**	
1.	Quarry Area	1.25 ha
2.	Proposed Production capacity	4417 Brass/Annum
C	**Location Details**	
1.	Village	Jungaon
2.	Tehsil	Chandrapur
3.	District	Chandrapur
4.	State	Maharashtra
5.	Latitude & Longitude	**Sr. No** / **Latitude "N"** / **Longitude "E"**: 1 / 19°53'25.22"N / 79°47'57.62"E

		2 19°53'19.68"N 79°47'51.33"E 3 19°53'18.41"N 79°47'52.41"E 4 19°53'23.95"N 79°47'58.69"E
6.	Toposheet No.	56M/07
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: Jungaon-1 is at a distance of 0.8 Km towards South West from the Mining area.
3.	Nearest Railway Station	Makudi Railway Station at a distance of 12.0 km in W direction from Jungaon 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. 6106200/-
E	**Requirements of The Project**	
1.	Proposed Water Requirement	2.60 KLD
2.	Fuel requirement	N/A
3.	Man Power Requirement	17 (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**

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	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime.

			flow velocity Change in surface water quality and ground water quality Waste water discharge	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. 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	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

			extraction of sand. Surface degradation due to road network	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.

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	1,00,000/-
3.	Green Belt Development (Rs. 300 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.	93000/-
Total			**Rs. 5,65,500/-**

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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. 145, 146, 246, 247/1, 247/2,249,301 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.

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
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>20°14'41.71"N</td><td>79°37'50.50"E</td></tr><tr><td>2</td><td>20°14'38.75"N</td><td>79°37'51.93"E</td></tr><tr><td>3</td><td>20°14'39.21"N</td><td>79°37'53.21"E</td></tr><tr><td>4</td><td>20°14'42.17"N</td><td>79°37'51.79"E</td></tr></table>
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. 1113000/-
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**

ENVIRONMENT MANAGEMENT PLAN

S.	Environ	Activities	Predict Impact	EMP/Mitigation Measures

No.	**mental Parameter**			
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. 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	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

			extraction of sand. Surface degradation due to road network	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.

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	120,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	1,03,800/-
		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.	1,12,100/-
Total			**Rs. 4,50,900/-**

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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. 83, 84, 85, 103/3 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
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	1.20 ha
2.	Proposed Production capacity	2120 Brass/Annum
C	**Location Details**	
1.	Village	Kag
2.	Tehsil	Chimur
3.	District	Chandrapur
4.	State	Maharashtra
5.	Latitude & Longitude	**Pillar** / **Latitude** / **Longitude**: 1 / 20°28'12.64"N / 79°24'34.78"E

		2	20°28'17.60"N	79°24'25.87"E
		3	20°28'18.71"N	79°24'26.57"E
		4	20°28'13.76"N	79°24'35.49"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. 12,72,000/-		
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)		

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	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

			water quality and ground water quality Waste water discharge	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. 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	Short-term disturbance of	The green belt/community forestry near river bank and approach road will restrict

		transportation	habitats disturbance of wildlife populations from noise Ecological impact surrounding habitat	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.

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	1,00,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	1,18,000/-
		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.	1,16,100/-
Total			**Rs. 4,64,900/-**

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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.

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	7420 Brass/Annum
C	**Location Details**	
1.	Village	Karanji
2.	Tehsil	Warora
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>20°10'0.10"N</td><td>78°57'57.27"E</td></tr><tr><td>2</td><td>20°10'1.74"N</td><td>78°57'47.07"E</td></tr><tr><td>3</td><td>20° 9'59.51"N</td><td>78°57'46.36"E</td></tr><tr><td>4</td><td>20° 9'57.91"N</td><td>78°57'56.56"E</td></tr></table>
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. 4452000/-
E	**Requirements of The Project**	
1.	Proposed Water Requirement	2.20 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 2.20 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. 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	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

			erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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	1,50,000/-
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.	1,33,100/-
Total			**Rs. 6,21,000/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 2.40 ha at River Painganga River adjoining Gut. No. 2, 3, Mouza: **Karwai**, 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.

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

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th></tr>
<tr><td>A.</td><td>Nature of the Project</td><td>Proposed Karwai sand ghat quarry (Minor Mineral)</td></tr>
<tr><td>B.</td><td colspan="2">Size of the Project</td></tr>
<tr><td>1.</td><td>Quarry Area</td><td>2.40 ha</td></tr>
<tr><td>2.</td><td>Proposed Production capacity</td><td>4240 Brass/Annum</td></tr>
<tr><td>C</td><td colspan="2">Location Details</td></tr>
<tr><td>1.</td><td>Village</td><td>Karwai</td></tr>
<tr><td>2.</td><td>Tehsil</td><td>Koparna</td></tr>
<tr><td>3.</td><td>District</td><td>Chandrapur</td></tr>
<tr><td>4.</td><td>State</td><td>Maharashtra</td></tr>
<tr><td>5.</td><td>Latitude & Longitude</td><td>
<table>
<tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>1</td><td>19°50'42.66"N</td><td>79° 6'14.77"E</td></tr>
<tr><td>2</td><td>19°50'35.67"N</td><td>79° 6'3.18"E</td></tr>
</table>
</td></tr>
</table>

		3	19°50'37.72"N	79° 6'2.78"E
		4	19°50'44.75"N	79° 6'14.37"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: Karwai is at a distance of 1.0 Km towards South from the Mining area.		
3.	Nearest Railway Station	The nearest railway station is located Chandrapur Railway Station at a distance of 19.10 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. 2544000/-		
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)		

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	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

			ground water quality Waste water discharge	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. 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 transportati	Damage of river bank due to access ramps to river bed, may cause soil	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

		on	erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	"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.

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	1,00,000/-
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.	78,300/-
Total			**Rs. 5,45,900/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 3.00 ha at River Wainganga adjoining Gut No. 166, 167, 168, 169, 170 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.

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	3.00 ha
2.	Proposed Production capacity	10601 Brass/Annum
C	**Location Details**	
1.	Village	Kharkada
2.	Tehsil	Bramhpuri
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>20°31'52.92"N</td><td>79°56'59.78"E</td></tr><tr><td>2</td><td>20°31'43.51"N</td><td>79°57'2.52"E</td></tr><tr><td>3</td><td>20°31'44.34"N</td><td>79°57'5.82"E</td></tr><tr><td>4</td><td>20°31'53.75"N</td><td>79°57'3.12"E</td></tr></table>
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. 6360600/-
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**

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. 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	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

			erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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. 300 per tree)	Along River Bank	2,99,700/-
		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.	1,3,2300/-
Total			**Rs. 6,27,000/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.60 ha at River Painganga River adjoining Gut. No. 11, 12 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.

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 Bu. sand ghat quarry (Minor Mineral)
B.	**Size of the Project**	
1.	Quarry Area	1.60 ha
2.	Proposed Production capacity	2827 Brass/Annum
C	**Location Details**	
1.	Village	Kodashi Bu.
2.	Tehsil	Koparna
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	**Pillar** / **Latitude** / **Longitude** 1 / 19°48'19.99"N / 78°59'2.29"E 2 / 19°48'20.47"N / 78°58'55.44"E 3 / 19°48'23.04"N / 78°58'55.92"E 4 / 19°48'22.55"N / 78°59'2.77"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. 1696200/-
E	**Requirements of The Project**	
1.	Proposed Water Requirement	3.30 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 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 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. 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	Damage of river bank due to access ramps to river bed,	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

		and transportation	may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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. 300 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.	88,300/-
Total			**Rs. 4,56,700/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 3.15 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.

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	3.15 ha
2.	Proposed Production capacity	5565 Brass/Annum
C	**Location Details**	
1.	Village	Kodashi Khu.
2.	Tehsil	Koparna
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>19°48'19.96"N</td><td>79° 0'30.41"E</td></tr><tr><td>2</td><td>19°48'16.16"N</td><td>79° 0'41.75"E</td></tr><tr><td>3</td><td>19°48'18.70"N</td><td>79° 0'43.39"E</td></tr><tr><td>4</td><td>19°48'22.51"N</td><td>79° 0'32.07"E</td></tr></table>
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. 3339000/-
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)

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 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. 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	Damage of river bank due to access ramps to river bed,	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

		and transportation	may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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. 300 per tree)	Along River Bank	2,22,900/-
		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. 5,56,150/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 4.80 ha at River Wainganga adjoining Gut No. 75, 78, 79, 80 Mouza: Kolari, 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.

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 Kolari sand ghat quarry (Minor Mineral)
B.	**Size of the Project**	
1.	Quarry Area	4.80 ha
2.	Proposed Production capacity	16961 Brass/Annum
C	**Location Details**	
1.	Village	Kolari
2.	Tehsil	Bramhpuri
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>20°43'40.00"N</td><td>79°46'21.27"E</td></tr><tr><td>2</td><td>20°43'30.90"N</td><td>79°46'34.74"E</td></tr><tr><td>3</td><td>20°43'33.23"N</td><td>79°46'37.27"E</td></tr><tr><td>4</td><td>20°43'42.28"N</td><td>79°46'23.73"E</td></tr></table>
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 kolari is about 3.0 km in NW direction from the Kolari sand ghat Site.
3.	Nearest Railway Station	Talodhi Railway Station at a distance of ~ 30.0 km in NW direction from Kolari 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. 10176600/-
E	**Requirements of The Project**	
1.	Proposed Water Requirement	4.50 KLD
2.	Fuel requirement	N/A
3.	Man Power Requirement	28 (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- Kolari-2. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	1.90
2.	Dust Suppression / Water Sprinkling	1.60
3.	Green belt / Plantation	1.00
Total		**4.50**

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 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 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	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").

			bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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	1,00,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	4,86,900/-
		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.	1,65,000/-
Total			**Rs. 8,35,500/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 4.50 ha at River Uma River adjoining Gut. No. 442 to 245, 410 Mouza: Kosambi, 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.

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 Kosambi sand ghat quarry (Minor Mineral)
B.	**Size of the Project**	
1.	Quarry Area	4.50 ha
2.	Proposed Production capacity	15901 Brass/Annum
C	**Location Details**	
1.	Village	Kosambi
2.	Tehsil	Mul
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>20° 6'2.97"N</td><td>79°40'16.19"E</td></tr><tr><td>2</td><td>20° 5'52.99"N</td><td>79°40'27.52"E</td></tr><tr><td>3</td><td>20° 5'55.15"N</td><td>79°40'30.10"E</td></tr><tr><td>4</td><td>20° 6'5.13"N</td><td>79°40'18.78"E</td></tr></table>
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: Kosambi 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. 9540600/-
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- Kosambi. 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 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. 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	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

			extraction of sand. Surface degradation due to road network	avoided and ramps are to be maintained.
5.	Ecology	Extraction of sand and transportatio n	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.

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	1,00,000/-
3.	Green Belt Development (Rs. 300 per tree)	Along River Bank	4,45,500/-
		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.	107300/
Total			**Rs. 7,82,800/-**

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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. 113,114,115,112,111 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.

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**	
1.	Village	Laadbori
2.	Tehsil	Sindewahi
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>20°18'25.04"N</td><td>79°36'56.42"E</td></tr><tr><td>2</td><td>20°18'39.10"N</td><td>79°37'0.73"E</td></tr><tr><td>3</td><td>20°18'39.37"N</td><td>79°36'59.92"E</td></tr><tr><td>4</td><td>20°18'25.32"N</td><td>79°36'55.61"E</td></tr></table>
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 Ladbori 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. 1192800/-
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**

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. 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.	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").

			Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	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 transportatio n	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.

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	1,00,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	1,11,000/-
		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.	1,16,100/-
Total			**Rs. 5,38,150/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 3.0 ha at River Bokaddoh adjoining Gut No. 74,75,76,77,80 Mouza: Lalchichbodi, 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.

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 Lalchichbodi sand ghat quarry (Minor Mineral)		
B.	**Size of the Project**			
1.	Quarry Area	3.0 ha		
2.	Proposed Production capacity	5300 Brass/Annum		
C	**Location Details**			
1.	Village	Lalchichbodi		
2.	Tehsil	Sindewahi		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	**Pillar**	**Latitude**	**Longitude**

		BP1	20°16'40.83"N	79°35'42.91"E
		BP2	20°16'44.82"N	79°35'33.69"E
		BP3	20°16'50.02"N	79°35'29.40"E
		BP4	20°16'58.12"N	79°35'27.84"E
		BP5	20°16'57.90"N	79°35'26.48"E
		BP6	20°16'49.55"N	79°35'28.16"E
		BP7	20°16'43.78"N	79°35'32.87"E
		BP8	20°16'39.64"N	79°35'42.34"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: Lalchichbodi village is about 2.00 km in East direction from the Lalchichbodi sand ghat Site		
3.	Nearest Railway Station	Sindewahi Railway Station at a distance of ~ 6.0 km in SE direction from Ladbori 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. 3180000/-		
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- Lalchichbodi. 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**

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. 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	Damage of river bank due to access ramps to river bed, may cause	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

		transportation	soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	(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.

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 and River bank maintenance	Proper Maintenance of Haul road & river bank	1,00,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	2,99,700/-
		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.	1,27,050/-
Total			**Rs. 6,51,750/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 4.50 ha at River Wainganga adjoining Gut. No. 640 to 642, 645, 646,627, 637, 634, 628, 625, 463 Mouza: Loandoli 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.

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 Loandoli sand ghat quarry (Minor Mineral)
B.	**Size of the Project**	
1.	Quarry Area	4.50 ha
2.	Proposed Production capacity	23852 Brass/Annum
C	**Location Details**	
1.	Village	Loandoli
2.	Tehsil	Sawali
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	**Pillar** / **Latitude** / **Longitude** 1 / 19°58'28.87"N / 79°53'32.49"E 2 / 19°58'35.15"N / 79°53'18.51"E 3 / 19°58'32.28"N / 79°53'16.89"E 4 / 19°58'26.01"N / 79°53'30.87"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: Loandoli at a distance of 0.50 Km towards South from the Mining area.
3.	Nearest Railway Station	The nearest railway station is located Sindewahi Railway Station, 17.50 Km away towards East from ML
4.	Nearest Airport	Nagpur Airport, 129.50 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. 14311200/-
E	**Requirements of The Project**	
1.	Proposed Water Requirement	4.50 KLD
2.	Fuel requirement	N/A
3.	Man Power Requirement	42 (Skilled and unskilled persons)

AVAILABILITY OF WATER & ITS SOURCE

The daily water demand for the proposed project is 4.80 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	1.80
2.	Dust Suppression / Water Sprinkling	1.00
3.	Green belt / Plantation	2.00
Total		**4.80**

ENVIRONMENT MANAGEMENT PLAN

S. No.	Environmental	Activities	Predict Impact	EMP/Mitigation Measures

	Parameter			
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. 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	Damage of river bank	Safety distance of 3m or 1/4th of the

		extraction of sand and transportation	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	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.

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	100,000/-
3.	Green Belt Development (Rs. 300 per tree)	Along River Bank	4,85,100/-
		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.	1,22,300/-
Total			**Rs. 7,96,800/-**

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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.

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**			
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	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground

			increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	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. 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	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.

			extraction of sand. Surface degradation due to road network	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 transportatio n	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.

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	1,11,000/-
		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.	1,16,100/-
Total			**Rs. 4,22,100/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.80 ha at River Uma adjoining Kh. No.Mul 242, 241,240,239/1,239/2 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.
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 Mul-Akapur sand ghat quarry (Minor Mineral)
B.	**Size of the Project**	
1.	Quarry Area	1.80 ha
2.	Proposed Production capacity	3816 Brass/Annum
C	**Location Details**	
1.	Village	MUL- Akapur
2.	Tehsil	Mul
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>BP1</td><td>20° 3'56.23"N</td><td>79°42'13.35"E</td></tr><tr><td>BP2</td><td>20° 3'42.80"N</td><td>79°42'28.33"E</td></tr><tr><td>BP3</td><td>20° 3'43.52"N</td><td>79°42'29.02"E</td></tr><tr><td>BP4</td><td>20° 3'56.95"N</td><td>79°42'14.04"E</td></tr></table>
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. 1908000/-
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)

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 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. 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 transportati	Damage of river bank due to access ramps to river bed, may cause soil	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

		on	erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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	1,00,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	1,78,200/-
		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.	81500/-
Total			**Rs. 4,74,700/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 2.75ha at River Wardha adjoining Gut No. 52, 53, 54 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.

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

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th></tr>
<tr><td>A.</td><td>Nature of the Project</td><td>Proposed Nakoda sand ghat quarry (Minor Mineral)</td></tr>
<tr><td>B.</td><td colspan="2">Size of the Project</td></tr>
<tr><td>1.</td><td>Quarry Area</td><td>2.75 ha</td></tr>
<tr><td>2.</td><td>Proposed Production capacity</td><td>4859 Brass/Annum</td></tr>
<tr><td>C</td><td colspan="2">Location Details</td></tr>
<tr><td>1.</td><td>Village</td><td>Nakoda</td></tr>
<tr><td>2.</td><td>Tehsil</td><td>Chandrapur</td></tr>
<tr><td>3.</td><td>District</td><td>Chandrapur</td></tr>
<tr><td>4.</td><td>State</td><td>Maharashtra</td></tr>
<tr><td>5.</td><td>Latitude & Longitude</td><td>
<table>
<tr><th>Sr. No</th><th>Latitude “N”</th><th>Longitude “E”</th></tr>
<tr><td>1</td><td>19°55'26.20"N</td><td>79° 5'25.07"E</td></tr>
</table>
</td></tr>
</table>

		2	19°55'8.77"N	79° 5'29.32"E
		3	19°55'8.18"N	79° 5'27.70"E
		4	19°55'25.62"N	79° 5'23.47"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. 2915400/-		
E	**Requirements of The Project**			
1.	Proposed Water Requirement	2.60 KLD		
2.	Fuel requirement	N/A		
3.	Man Power Requirement	17 (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**

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	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime.

			flow velocity Change in surface water quality and ground water quality Waste water discharge	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. 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	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

			extraction of sand. Surface degradation due to road network	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.

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	40,000/-
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.	81,500/-
Total			**Rs. 3,66,700/-**

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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.

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**	
1.	Village	Naleshwar Mo
2.	Tehsil	Mul
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>19°58'11.84"N</td><td>79°37'22.26"E</td></tr><tr><td>2</td><td>19°57'57.69"N</td><td>79°37'26.01"E</td></tr><tr><td>3</td><td>19°57'57.47"N</td><td>79°37'25.19"E</td></tr><tr><td>4</td><td>19°58'11.60"N</td><td>79°37'21.47"E</td></tr></table>
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. 1192800/-
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- 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 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. 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 transportati	Damage of river bank due to access ramps to river bed, may cause soil	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

		on	erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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	1,23,600/-
		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. 4,36,600/-**

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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. 128 to 131, 154, 156 Mouza: Parodhi, 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.

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 Parodhi 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	Parodhi		
2.	Tehsil	Bhadravati		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	**Pillar**	**Latitude**	**Longitude**

		1	20°17'58.57"N	79°12'50.71"E
		2	20°17'45.30"N	79°12'54.14"E
		3	20°17'45.55"N	79°12'54.96"E
		4	20°17'58.82"N	79°12'51.53"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: Parodhi 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 Parodhi 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. 1113000/-		
E	**Requirements of The Project**			
1.	Proposed Water Requirement	3.0 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 3.0 KLD. It will be procured from the supply source of Village- Parodhi. 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		**3.0**

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	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime.

			flow velocity Change in surface water quality and ground water quality Waste water discharge	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. 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.	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

			Surface degradation due to road network	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.

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. 300 per tree)	Along River Bank	1,03,800/-
		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.	1,16,100/-
Total			**Rs.4,14,900/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 4.50 ha at River Wainganga adjoining Gut No. 257, 258, 259, 260, 261, 262, 263 Mouza: Pimpalgaon, 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.

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 Pimpalgaon sand ghat quarry (Minor Mineral)
B.	**Size of the Project**	
1.	Quarry Area	4.50 ha
2.	Proposed Production capacity	15901 Brass/Annum
C	**Location Details**	
1.	Village	Pimpalgaon
2.	Tehsil	Bramhpuri
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>20°38'35.38"N</td><td>79°54'48.10"E</td></tr><tr><td>2</td><td>20°38'48.88"N</td><td>79°54'42.11"E</td></tr><tr><td>3</td><td>20°38'50.35"N</td><td>79°54'45.19"E</td></tr><tr><td>4</td><td>20°38'36.85"N</td><td>79°54'51.18"E</td></tr></table>
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. 9540600/-
E	**Requirements of The Project**	
1.	Proposed Water Requirement	4.50 KLD
2.	Fuel requirement	N/A
3.	Man Power Requirement	28 (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	1.90
2.	Dust Suppression / Water Sprinkling	1.60
3.	Green belt / Plantation	1.00
Total		**4.50**

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 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 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	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").

			bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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	1,00,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	4,86,900/-
		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.	1,65,000/-
Total			**Rs. 8,35,500/-**

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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. 45 to 50, 52 to 57, Mouza: Pipri de, 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.

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 Pipri de sand ghat quarry (Minor Mineral)		
B.	**Size of the Project**			
1.	Quarry Area	4.50 ha		
2.	Proposed Production capacity	15901 Brass/Annum		
C	**Location Details**			
1.	Village	Pipri de		
2.	Tehsil	Bhadravati		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	**Pillar**	**Latitude**	**Longitude**

		BP1	20° 1'39.26"N	79° 4'53.59"E
		BP2	20° 1'23.59"N	79° 5'5.89"E
		BP3	20° 1'21.84"N	79° 5'4.10"E
		BP4	20° 1'37.47"N	79° 4'51.75"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. 9540600/-		
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- Pipri de. 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**

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. 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	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

			erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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	1,00,000/-
3.	Green Belt Development (Rs. 300 per tree)	Along River Bank	4,45,500/-
		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.	1,33,100/-
Total			**Rs. 8,13,600/-**

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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. 45,46,47,48/2,49,50,52 to 57 Mouza: Pipri, 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.

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 Pipri sand ghat quarry (Minor Mineral)		
B.	**Size of the Project**			
1.	Quarry Area	4.50 ha		
2.	Proposed Production capacity	15901 Brass/Annum		
C	**Location Details**			
1.	Village	Pipri		
2.	Tehsil	Bhadravati		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	**Pillar**	**Latitude**	**Longitude**

		1	20° 1'39.26"N	79° 4'53.59"E
		2	20° 1'23.59"N	79° 5'5.89"E
		3	20° 1'21.84"N	79° 5'4.10"E
		4	20° 1'37.47"N	79° 4'51.75"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: pipri is about 1.20 km in East direction from the Ralegaon Reeth sand ghat Site		
3.	Nearest Railway Station	Majri Railway Station at a distance of ~ 8.0 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. 9540600/-		
E	**Requirements of The Project**			
1.	Proposed Water Requirement	3.60 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 3.60 KLD. It will be procured from the supply source of Village- Pipri. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	1.40
2.	Dust Suppression / Water Sprinkling	1.20
3.	Green belt / Plantation	1.00
Total		**3.60**

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, 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. 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	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

			erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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	1,00,000/-
3.	Green Belt Development (Rs. 300 per tree)	Along River Bank	4,45,500/-
		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.	1,33,100/-
Total			**Rs. 8,13,600/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 2.10 ha at River Uma River adjoining Gut. No. 935, 922/1, 907/1, 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.

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	2.10 ha
2.	Proposed Production capacity	3710 Brass/Annum
C	**Location Details**	
1.	Village	Rajoli
2.	Tehsil	Mul
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>20°11'5.68"N</td><td>79°39'39.69"E</td></tr><tr><td>2</td><td>20°10'45.57"N</td><td>79°39'50.98"E</td></tr><tr><td>3</td><td>20°10'44.86"N</td><td>79°39'50.22"E</td></tr><tr><td>4</td><td>20°11'4.97"N</td><td>79°39'38.92"E</td></tr></table>
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. 2226000/-
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 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 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. 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 transportati	Damage of river bank due to access ramps to river bed, may cause soil	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

		on	erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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. 300 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,,27,100/
Total			**Rs. 5,81,000/-**

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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.

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**	
1.	Village	Ralegaon Rith
2.	Tehsil	Bhadravati
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>20°7'34.76"N</td><td>78°58'23.46"E</td></tr><tr><td>2</td><td>20°7'33.41"N</td><td>78°58'22.48"E</td></tr><tr><td>3</td><td>20° 7'27.63"N</td><td>78°58'40.21"E</td></tr><tr><td>4</td><td>20°7'29.26"N</td><td>78°58'39.98"E</td></tr></table>
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. 4770600/-
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**

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. 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	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

			erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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	1,30,000/-
3.	Green Belt Development (Rs. 300 per tree)	Along River Bank	4,45,500/-
		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.	1,33,100/-
Total			**Rs. 8,33,600/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 4.50 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.

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	4.50 ha
2.	Proposed Production capacity	15901 Brass/Annum
C	**Location Details**	
1.	Village	Ranmochan
2.	Tehsil	Bramhpuri
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>20°33'29.27"N</td><td>79°55'27.18"E</td></tr><tr><td>2</td><td>20°33'42.80"N</td><td>79°55'33.10"E</td></tr><tr><td>3</td><td>20°33'41.55"N</td><td>79°55'36.28"E</td></tr><tr><td>4</td><td>20°33'28.02"N</td><td>79°55'30.34"E</td></tr></table>
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. 9540600/-
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

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 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 transportati	Damage of river bank due to access ramps to river bed, may cause soil	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

		on	erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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	1,00,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	4,86,900/-
		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.	1,65,000/-
Total			**Rs. 8,45,500/-**

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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. 177, 178/3, 179, 180, 181 Mouza: Sakhari, 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.

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 Sakhari sand ghat quarry (Minor Mineral)
B.	**Size of the Project**	
1.	Quarry Area	4.90 ha
2.	Proposed Production capacity	17314 Brass/Annum
C	**Location Details**	
1.	Village	Sakhari
2.	Tehsil	Sawali
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	**Pillar** / **Latitude** / **Longitude** 1 / 19°59'27.64"N / 79°52'25.97"E 2 / 19°59'43.05"N / 79°52'21.67"E 3 / 19°59'42.79"N / 79°52'18.20"E 4 / 19°59'27.39"N / 79°52'22.49"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: Sakhari at a distance of 0.50 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, 119.50 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. 10388400/-
E	**Requirements of The Project**	
1.	Proposed Water Requirement	4.50 KLD
2.	Fuel requirement	N/A
3.	Man Power Requirement	28 (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- Samda Buj. The detailed breakup of the water requirement is given below.

Table: Water Demand

S. No.	Particulars	Quantity (KLD)
1.	Domestic Purpose	1.50
2.	Dust Suppression / Water Sprinkling	1.00
3.	Green belt / Plantation	2.00
Total		**4.50**

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. 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	Damage of river bank due to access ramps	Safety distance of 3m or 1/4th of the width of the river whichever is more

		of sand and transportation	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	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.

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	100,000/-
3.	Green Belt Development (Rs. 300 per tree)	Along River Bank	4,85,100/-
		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.	1,22,300/-
Total			**Rs. 8,42,400/-**

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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. 628, 629, 630, 649, 648 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.

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	2.40 ha
2.	Proposed Production capacity	8481 Brass/Annum
C	**Location Details**	
1.	Village	Samda Buj
2.	Tehsil	Sawali
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	**Pillar** / **Latitude** / **Longitude** 1 / 20° 6'42.73"N / 79°58'11.74"E 2 / 20° 6'54.10"N / 79°58'5.06"E 3 / 20° 6'55.08"N / 79°58'6.83"E 4 / 20° 6'43.72"N / 79°58'13.53"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. 5088600/-
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. 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	Damage of river bank due to access ramps	Safety distance of 3m or 1/4th of the width of the river whichever is more

		of sand and transportation	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	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.

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	100,000/-
3.	Green Belt Development (Rs. 300 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.	1,22,300/-
Total			**Rs. 5,84,900/-**

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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.

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**	
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**

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. 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.	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").

			Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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	1,00,000/-
3.	Green Belt Development (Rs. 300 per tree)	Along River Bank	3,76,200/-
		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.	1,27,050/-
Total			**Rs. 7,28,250/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 2.0 ha at River Wenganga 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.

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	2.0 ha
2.	Proposed Production capacity	3534 Brass/Annum
C	**Location Details**	
1.	Village	Sondri
2.	Tehsil	Bramhpuri
3.	District	Chandrapur
4.	State	Maharashtra

5.	Latitude & Longitude	<table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>20°38'25.52"N</td><td>79°54'56.41"E</td></tr><tr><td>2</td><td>20°38'22.26"N</td><td>79°55'2.39"E</td></tr><tr><td>3</td><td>20°38'25.00"N</td><td>79°55'4.25"E</td></tr><tr><td>4</td><td>20°38'28.25"N</td><td>79°54'58.27"E</td></tr></table>
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. 2120400/-
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. 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	Damage of river bank due to access ramps to river bed, may cause soil erosion.	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

		transportation	Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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	1,00,000/-
3.	Green Belt Development (Rs. 400 per tree)	Along River Bank	1,99,800/-
		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.	1,22,300/-
Total			**Rs. 5,47,100/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.75 ha at River Painganga River adjoining Gut. No. 15, 16, 19, 22, 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.

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	1.75 ha
2.	Proposed Production capacity	6184 Brass/Annum
C	**Location Details**	
1.	Village	Tamsi Rith
2.	Tehsil	Koparna
3.	District	Chandrapur
4.	State	Maharashtra
5.	Latitude & Longitude	Pillar: 1 — Latitude: 19°53'40.03"N — Longitude: 79° 9'3.67"E

		2	19°53'44.44"N	79° 9'14.76"E
		3	19°53'45.99"N	79° 9'14.23"E
		4	19°53'41.58"N	79° 9'3.14"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. 3710400/-		
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)		

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	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime. Mining activities will be

			water quality and ground water quality Waste water discharge	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. 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	Damage of river bank due to access ramps to river bed,	Safety distance of 3m or 1/4th of the width of the river whichever is more will be left from both

		transportation	may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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. 400 per tree)	Along River Bank	1,73,100/-
		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.	1,17,250/-
Total			**Rs. 5,05,350/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.25 ha at River Andhari adjoining Gut No. 36, 37 Mouza: Thergaon, 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/07.

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 Thergaon 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**	
1.	Village	Thergaon
2.	Tehsil	Chandrapur
3.	District	Chandrapur
4.	State	Maharashtra
5.	Latitude & Longitude	**Sr. No** / **Latitude "N"** / **Longitude "E"**: 1 / 19°52'48.50"N / 79°39'5.84"E

		2 19°52'40.78"N 79°39'3.15"E 3 19°52'41.54"N 79°39'1.59"E 4 19°52'49.25"N 79°39'4.31"E
6.	Toposheet No.	56M/07
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: Thergaon-1 is at a distance of 0.8 Km towards South West from the Mining area.
3.	Nearest Railway Station	Makudi Railway Station at a distance of 12.0 km in W direction from Thergaon 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. 1324800/-
E	**Requirements of The Project**	
1.	Proposed Water Requirement	2.60 KLD
2.	Fuel requirement	N/A
3.	Man Power Requirement	17 (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**

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	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime.

			flow velocity Change in surface water quality and ground water quality Waste water discharge	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. 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	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

			extraction of sand. Surface degradation due to road network	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.

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	1,00,000/-
3.	Green Belt Development (Rs. 300 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.	93000/-
Total			**Rs. 5,65,500/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 1.44 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.

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	1.44 ha
2.	Proposed Production capacity	2544 Brass/Annum
C	**Location Details**	
1.	Village	Tulana
2.	Tehsil	Warora
3.	District	Chandrapur
4.	State	Maharashtra
5.	Latitude & Longitude	**Pillar** / **Latitude** / **Longitude**: 1 / 20°11'49.40"N / 78°57'29.29"E

		2	20°11'55.24"N	78°57'34.77"E
		3	20°11'56.55"N	78°57'33.26"E
		4	20°11'50.72"N	78°57'27.77"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. 1526400/-		
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)		

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 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. 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	Damage of river bank due to access ramps to river bed,	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

		transportation	may cause soil erosion. Destruction of river bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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	1,42,000/-
		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.	93,250/-
	Total		**Rs. 4,40,450/-**

EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 2.75 ha at River Uma adjoining Gut No. 310 to 313, 146 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

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	2.75 ha		
2.	Proposed Production capacity	9717 Brass/Annum		
C	**Location Details**			
1.	Village	Usegaon		
2.	Tehsil	Chimur		
3.	District	Chandrapur		
4.	State	Maharashtra		
5.	Latitude & Longitude	**Pillar**	**Latitude**	**Longitude**

		1	20°25'32.36"N	79°26'37.29"E
		2	20°25'14.98"N	79°26'41.80"E
		3	20°25'14.58"N	79°26'40.14"E
		4	20°25'31.95"N	79°26'35.62"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. 5830200/-		
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**

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	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime.

			flow velocity Change in surface water quality and ground water quality Waste water discharge	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. 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	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.

			ecological due to extraction of sand. Surface degradation due to road network	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.

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	1,00,000/-
3.	Green Belt Development (Rs. 300 per tree)	Along River Bank	2,72,100/-
		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.	93,250/-
Total			**Rs. 5,80,250/-**

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EXECUTIVE SUMMARY

This Report has been prepared for the Proposed sand ghat over the area of 2.88 ha at River Andhari adjoining Gut No. 56, 57, 58, 61, 63, 67 Mouza: Velwa chak, 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/07.

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 Velwa chak sand ghat quarry (Minor Mineral)
B.	**Size of the Project**	
1.	Quarry Area	2.88 ha
2.	Proposed Production capacity	10177 Brass/Annum
C	**Location Details**	
1.	Village	Velwa chak
2.	Tehsil	Chandrapur
3.	District	Chandrapur
4.	State	Maharashtra
5.	Latitude & Longitude	**Sr. No** / **Latitude "N"** / **Longitude "E"**: 1 / 19°51'1.48"N / 79°40'20.44"E

		2 19°51'11.80"N 79°40'8.06"E 3 19°51'10.44"N 79°40'6.60"E 4 19°51'0.12"N 79°40'18.97"E
6.	Toposheet No.	56M/07
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: Velwa chak-1 is at a distance of 0.8 Km towards South West from the Mining area.
3.	Nearest Railway Station	Makudi Railway Station at a distance of 16.0 km in W direction from Velwa chak 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. 6106200/-
E	**Requirements of The Project**	
1.	Proposed Water Requirement	2.60 KLD
2.	Fuel requirement	N/A
3.	Man Power Requirement	17 (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**

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	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology and ground water regime.

			flow velocity Change in surface water quality and ground water quality Waste water discharge	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. 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	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

			extraction of sand. Surface degradation due to road network	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.

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	1,00,000/-
3.	Green Belt Development (Rs. 300 per tree)	Along River Bank	2,85,000/-
		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.	93250/-
Total			**Rs. 6,03,000/-**

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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.

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**			
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 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	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").

			bank interland and ecological due to extraction of sand. Surface degradation due to road network	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.

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. 300 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.	1,27,050/-
Total			**Rs. 5,57,250/-**

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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: 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: 55 N/16.
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

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th></tr>
<tr><td>A.</td><td>Nature of the Project</td><td>Proposed Vitthalwada-Yenbothla sand ghat quarry (Minor Mineral)</td></tr>
<tr><td>B.</td><td colspan="2">Size of the Project</td></tr>
<tr><td>1.</td><td>Quarry Area</td><td>4.90 ha</td></tr>
<tr><td>2.</td><td>Proposed Production capacity</td><td>8657 Brass/Annum</td></tr>
<tr><td>C</td><td colspan="2">Location Details</td></tr>
<tr><td>1.</td><td>Village</td><td>Vitthalwada-Yenbothla</td></tr>
<tr><td>2.</td><td>Tehsil</td><td>Gondpipri</td></tr>
<tr><td>3.</td><td>District</td><td>Chandrapur</td></tr>
<tr><td>4.</td><td>State</td><td>Maharashtra</td></tr>
<tr><td>5.</td><td>Latitude & Longitude</td><td>
<table>
<tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>1</td><td>19°42'41.76"N</td><td>79°46'56.51"E</td></tr>
<tr><td>2</td><td>19°43'4.11"N</td><td>79°46'52.15"E</td></tr>
</table>
</td></tr>
</table>

		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
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	No diversion is proposed. There will not be any adverse impact on flow pattern, surface hydrology

			increase the flow velocity Change in surface water quality and ground water quality Waste water discharge	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. 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	Damage of river bank due to access ramps	Safety distance of 3m or 1/4th of the width of the river whichever is

		sand and transportation	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	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.

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	55,000/-
		Sand carrying trolleys will be Covered with Tarpaulin	10000/-
2.	Road maintenance	Proper Maintenance of Haul road	1,50,000/-
3.	Green Belt Development (Rs. 300 per tree)	Along River Bank	4,45,500/-
		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.	77,250/-
Total			**Rs.7,82,750/-**

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