Environmental Management Plan / FORM 1M For

Environment Clearance of

Nagpur Sand Ghat Mining Project

District Mining Officer, Collector Office Nagpur

Submitted by:

District Mining Officer, Nagpur





Prepared by:

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Environment Management Plan For

Raiwadi-A Sand Ghat, Saoner Taluka, Nagpur District, State Maharasthra

Name of Sand Ghat	Tehsil	Name of river	Nearest Gut No.	Area in ha	Area in cum LxBxD (m3)	Available Sand in Brass
Raiwadi- A	Saoner	Kanhan	179,180,183,184&186	3.37	450x75x0.40	4770

Project Proponent District Mining Officer, Collector Office, Nagpur

Environment Consultant Open Arch Design and Enviro Solutions LLP



NABET/EIA/2124/IA0081

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December 2021



ENVIRONMENT MANAGEMENT PLAN

Name of Sand Ghat: Raiwadi-A Sand Ghat (Gut. No.179,180,183,184&186)

Taluka : Saoner

District : Nagpur (Maharashtra)

1. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of 3.37ha on Kanhan River adjoiningGut. No. 179,180,183,184&186, village Raiwadi A, Tehsil Saoner, District Nagpur (Maharashtra). It has been proposed to collect approximately 4770 Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts on various features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 4770 Brass per annum.

2. PURPOSE OF EMP

The purpose of an EMP is to

- Assists project proponent in the preparation of an effective and user friendly activity chart for environment management.
- ➤ Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- ➤ Ensure that environment management details is captured and documented at all stages of a project.

3. MATRIX FOR EMP

Environment Management plan matrix is given in Table no.1.

Table 1: Environmental Management Plan Matrix

	Table 1: Environmental Management Plan Matrix				
#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
1.	Air	1. Dust generation due to	1. 1.0 KLD water will be use	<u>Unpaved Roads</u>	Rs.30,000/- Water
	Environment	transportation material	for regular water spraying	Water sprinkling will be done	sprinkling
		by 2 no oftractor trolley	of 1.10 km distance of	for dust suppression for 1.10 km	
		perday.	road.	distance from minesite.	Rs.15000/-
		2. In mining activities, the	Regularly road leveling	To maintain the uniform speed	Tarpaulin
		only source of gaseous	and maintenance will be	of the trucks/tippers. Leveling	
		emissions is from the	done.	will be done.	Rs 20,000/- is
		engines of transport	Loading material will be	Paved Roads	proposed for
		vehicles.	covered with tarpaulin	The roads will be maintained	baseline data for
			and overloading will be	regularly. Limited speed will be	one time.
			avoided.	adopted by transportvehicles.	
			2. PUC certified vehicles will	The loaded vehicles will be	
			beused for transportation	covered withtarpaulin.	
			and run under limited	Transportation vehicles	
			speed. Regular	The vehicles will be kept at	
			maintenance will be done	good condition by regular	
			of vehicles.	servicing and maintenance.	
			In addition to prevent	PUC certified vehicle will be	
			spillage by tractor trolleys	used. Overloading will be	
			over loading should be	avoided. Air monitoring will be	
			controlled along with	done to check the criteria of air	
			speed limit (1Brass	pollutants.	

	Impact	Mitigations Measures	Management Plan	Budget
		/tractor trolley).		
Conclusion: In this proposed mining project the suspended particulates from unpaved road and emission from transportation vehicle's engage source air pollution. The proposed mining operations are not anticipated to raise the concentration of the pollutants beyond prescribed to mitigate any harmful impacts of pollutants like planning transportation routes of mined as to reach the nearest paved roads by shortest route and avoid over speed and over loading.		ond prescribed limits.		
2 Noise Environment	1 no of tractor trolley and a tractor for water sprinkling will be source of noise pollution. The impact of noise pollution will be for very short time. No machinery will be use for mining operation.	Noise generated by the transport vehicle will be intermittent and for very short time, it will not cause much adverse impact. Vehicles will be maintained to avoid unnecessary noise. Periodical monitoring of noise will be done to adopt corrective actions wherever needed. Mining shall not be carried out night time, only permitted for day time. No heavy machinery is allowed for excavation only tractor	Vehicle to be maintained in good condition to avoid unnecessary noise. Timely maintenance of vehicles and their silencers to minimize vibration and Sound. Road leveling will be done time to time. Phasing out of old and worn-out tractor trolleys. Provision of green belts along the road networks. Care to be taken to produce minimum sound during sand loading. Use of Backhoe and ear plugs may be provided to protect the labours working at the site. Minimum use	Rs 20,000/- is proposed for baseline data for one time

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
speed of vehicles and regular maintenance of vehicles and approach road.					
3.	Water Environment	Ground water: Ground water will not be intersected during mining work. No waste water will be generated from the mining activity of minor minerals as the project only involves lifting of sand from river quarry in dry state. Surface water: no impact anticipated for surface water.	Mining activity will not intersect toground water. Water requirement of 0.50 KLD fordomestic and 1.0 KLD for water sprinkling will be met through water tanker. Low water demand will not be affected to ground water. Mobile Toilets to be provided for waste water generated from labours and Domestic waste to be collected in dust bins and handed over to the local authority for disposal. Mining activity will be done in dry bed only.	Mining is stopped during the monsoon season and at the time of floods. This helps in replenishment of sand in the riverbed. Worker to be advised for use the waste bin and Mobile toilets.	Mobile toilet: Rs. 1,20,000/- Waste bin: Rs 350/-
	Conclusions: In this mining project in the entire lease period the ground water table will not be intersected hence there will be no impact o ground waterenvironment and any hazards waste will not be met to surface water. Advised to workers use the dust bin to dispose any dom solid waste.		•		
4	Land Environment	Road will be degraded due to transportation. River course erosion due to mined out sand from river.	Regular water sprinkling will be done. Road of 1.10 km length will be maintained in good condition by using local earth material. Mining activity will be done in	Mining activity will be done as per Rule 23 of MMME (D&R) Rule 2013 and Maharashtra Sand policy 03.09.2019. Mining activity will be done up to 0.40 m depth and dry bed only.	Rs. 25650/- Roadmaintenance

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
			33750sq m area. Sand from	Mining will not be done near	
			river will be restricted to	river banks.	
			maximum depth of 0.40 m as		
			per GSDA survey. Mining		
			activity will not done near the		
			river banks. Mining activity		
			will be donein dry bed only.		
			Monitoring will be done to		
			meet the criteria of		
			parameters as per norms of		
			CPCB/ SPCB.		
		and nearby land surface		nobile toilet to prevent disposal of so	
5	Biological	No impact anticipated on	3 tractor trips per day will be	Water spraying on haul road and	Rs 30,000/- water
	Environment	biological environment due	use for transportation of	time to time maintenance will be	sprinkling
		to proposed mining activity	sand. So anticipated	done to avoid dust generation.	
		as mining activity will be	suspended particulates are in	Greenbelt Development and Bio-	
		carried out in running dry	negligible.	Diversity Preservation	
		river bed.	Protective measures like	Plantation activities will be	
		Suspended particulates are	water spraying on unpaved	carried out at the bank of the	
		only source, which has the	road, leveling of unpaved	river and along the haul roads.	
		impact on nearby crops.	road and sand covered after	This activity will help for	
		Pit developed due to	loading will be used to	maintaining ecology and	
		mining may be dangerous	prevent.	environment of the area.	
		for animals			
	Conclusions:				

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
			Flora due to proposed mining a	ctivity. Suggested to lease adopt the 1	nitigation measures
	for dust suppression.				
6.	Socio- Economic Environment	Negative impact is not anticipated on socio-economic environment. Positive impact due to proposed mining activity are employment, availability of sand.	Employment will be given to localpeople for unskilled and skilled labors.	Preference to be given to local people.	
	Conclusion:				
	Preference given	to local people for employment a	ıs labor.		
7	Occupational Health & Safety	Hazards on site are anticipated like health issue due to dust, dehydration, heat expose and rest shed. Accident from spades and heavy boulder.	First aid box to be provided for initial treatment. Temporary shed will be provided. Notice board will be placed at mining site, and guard will be posted in three shifts to prevent any accident.	First aid and sanitary facility provide to workers.	Total Amount: Rs 1,32,850/- Rs 2500/- for First Aid Box Rs 4000/- Personal Protective Equipment Rs 10000/- For Temporary shed Rs.1,20,000/- Mobile Toilet Rs 750/- waste bin
	Conclusion: Suggested to prov	vided First aid and sanitary facilit	y to workers.		
8.	Waste/ Overburden	No waste will be generated from miningof mineral. Overburden or top soil is	No waste/ overburden will be generated from the river sand mining project.	No waste/ overburden will be generated; thus management plan is not applicable. Domestic	

Environment Management Plan of Sand Ghats Saoner Taluka, Nagpur

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
		absent in the proposed		waste generated to be collected	
		river sand project.		in dust bins and handed over to	
				the local authority for disposal.	
	Conclusion:				
	Waste is not anticipated in River sand mining activity as well as top soil and overburden also absent in the proposed river sand project.				



4. FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures. Fund provision for EMP is given in below.

Table 2: Environmental Management Plan Budget

S No	Particulars	Amount in Rs
1.	Environment Monitoring (Air, Water, Soil and Noise)	20000
2.	Water Sprinkling	30000
3.	Unpaved/ Haul road maintenance	25650
4.	Occupational Health & safety (Mobile toilet and PPE	
	- Safety Shoes, Earmuffs & Mask etc.)	132850
5.	Tarpaulin	15000
6.	Plantation	15000
7.	Security	10000
	Total	2,48,500/-



APPENDIX VIII (See paragraph 6) FORM 1 M

APPLICATION FOR MINING OF MINOR MINERALS UNDER CATEGORY 'B2' FOR LESS THAN AND EQUAL TO FIVE HECTARE

(I) BASIC INFORMATION

Name of the Mining Lease site: Raiwadi A Sand Spot over an extent of 3.37 ha. at Kanhan River Bed, Gut No 179,180,183,184 &186, Village Raiwadi A, Tehsil Saoner, District Nagpur, Maharashtra

(i) Location / site (GPS Co-ordinates):

Point	Latitude	Longitude
BP 1	21°31'14.05"N	78°56'29.36"E
BP 2	21°31'7.22"N	78°56'40.03"E
BP 3	21°31'4.25"N	78°56'39.01"E
BP 4	21°31'11.30"N	78°56'28.30"E

(ii) Size of the Mining Lease (Hectare): 3.37

(iii) Capacity of Mining Lease (TPA): 4770 Brass

(iv) Period of Mining Lease: 01 years

(v) Expected cost of the Project: INR 0.60 Crores

(vi) Contact Information: District Mining Officer, Nagpur

(II) ENVIRONMENTAL SENSITIVITY

S. N	ITEMS	DETAILS
1.	Distance of project site from nearest rail or roadbridge over the concerned River, Rivulet, Nalla etc.	
2.	Distance from infrastructural facilitiesRailway line	● Saoner railway station at a distance of ~14.81 kms



		1.0.1
	National Highway	towards South.
	State Highway	NH 547 at a distance of ∼8.92km towards West
	Major District Road	Approach road at distance of 460m towards East
	Any Other Road	• NA
	 Electric transmission line pole or tower Canal or check dam or reservoirs or lake or ponds In-take for drinking water pump house. Intake for Irrigation canal pumps 	 Nil Nil Raiwadi village,1.32km, North Raiwadi village,1.32km, North
3.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	
4.	ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	Hamian raver bea
5.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, overwintering, migration	
6.	Inland, coastal, marine or underground waters	Wainganga River Bed
7.	State, National boundaries	Nil
8.	Routes or facilities used by the public for access to recreation or other tourist, Pilgrim areas	NH 547 at a distance of ~8.92km towards West
9.	Defense installations	Nil
10.	Densely populated or built-up area, distance from nearest human habitation	Raiwadi village,1.32km, North
11.	Areas occupied by sensitive man-made land uses (Hospitals, schools, places of worship, community facilities)	Ameya Multispeciality hospital, Saoner-15.23km, South
12.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	Kanhan River (this is the case of river sandmining)
13.	Areas already subjected to pollution or environmental damage. (Those where existing legal environmental standards are exceeded)	or environmental damage.
14.	Areas susceptible to natural hazard which could cause the project to present environmental problems (Earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse	Active), according to theIndian Standard Seismic Zoning Map.

	climatic conditions)	
15.	Is proposed mining site located over or near fissure / fracture for ground water recharge	This is River sand mining project.
16.	Whether the proposal involves approval or clearance under the following Regulations or Acts, namely: - (a) The Forest (Conservation) Act, 1980; (b) The Wildlife (Protection) Act, 1972; (c) The Coastal Regulation Zone Notification, 2011. If yes, details of the same and their status tobe given.	No
17.	Forest land involved (hectares)	No forest land involved
18.	Whether there is any litigation pending againstthe project and/or land in which the project is propose to be set up? (a) Name of the Court (b) Case No. Orders or directions of the Court, if any, and its relevance with the proposed project.	No litigation pending against the project and/or land in any court

"I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of

the data and information submitted is found to be false or misleading at any stage, the project

will be rejected and clearance give, if any to the project will be revoked at our risk and cost.

Date: __/12/2021

Environment Management Plan For

Wakodi Sand Ghat, Saoner Taluka, Nagpur District, State Maharasthra

Name of Sand Ghat	Tehsil	Name of river	Nearest Gut No.	Area in ha	Area in cum LxBxD (m3)	Available Sand in Brass
Wakodi	Saoner	Kanhan	44(Part)	3.37	500x70x0.40	4946

Project Proponent District Mining Officer, Collector Office, Nagpur

Environment Consultant Open Arch Design and Enviro Solutions LLP



NABET/EIA/2124/IA0081

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Contact no.:9004778386

December 2021

ENVIRONMENT MANAGEMENT PLAN

Name of Sand Ghat : Wakodi Sand Ghat Gut. No.44 (Part)

Taluka : Saoner

District : Nagpur (Maharashtra)

5. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of 3.50ha on Kanhan River adjoiningGut. No. 44 (part), village Wakodi, Tehsil Saoner, District Nagpur (Maharashtra). It has been proposed to collect approximately 4946 Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts on various features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 4946 Brass per annum.

6. PURPOSE OF EMP

The purpose of an EMP is to

- Assists project proponent in the preparation of an effective and user friendly activity chart for environment management.
- Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- ➤ Ensure that environment management details is captured and documented at all stages of a project.



7. MATRIX FOR EMP

Environment Management plan matrix is given in Table no.1.

Table 1: Environmental Management Plan Matrix

	Table 1: Environmental Management Plan Matrix				
#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
1.	Air	3. Dust generation due to	3. 1.0 KLD water will be use	<u>Unpaved Roads</u>	Rs.30,000/- Water
	Environment	transportation material	for regular water spraying	Water sprinkling will be done	sprinkling
		by 2 no oftractor trolley	of 1.10 km distance of	for dust suppression for 1.10 km	
		perday.	road.	distance from minesite.	Rs.15000/-
		4. In mining activities, the	Regularly road leveling	To maintain the uniform speed	Tarpaulin
		only source of gaseous	and maintenance will be	of the trucks/tippers. Leveling	
		emissions is from the	done.	will be done.	Rs 20000/- is
		engines of transport	Loading material will be	Paved Roads	proposed for
		vehicles.	covered with tarpaulin	The roads will be maintained	baseline data for
			and overloading will be	regularly. Limited speed will be	one time.
			avoided.	adopted by transportvehicles.	
			4. PUC certified vehicles will	The loaded vehicles will be	
			beused for transportation	covered withtarpaulin.	
			and run under limited	Transportation vehicles	
			speed. Regular	The vehicles will be kept at	
			maintenance will be done	good condition by regular	
			of vehicles.	servicing and maintenance.	
			5. In addition to prevent	PUC certified vehicle will be	
			spillage by tractor trolleys	used. Overloading will be	
			over loading should be	avoided. Air monitoring will be	
			controlled along with	done to check the criteria of air	
			speed limit (1Brass	pollutants.	

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
			/tractor trolley).		
	source air pollu However, the m	ition. The proposed mining operat	ions are not anticipated to raise the any harmful impacts of pollutant	and emission from transportation vene concentration of the pollutants bey ts like planning transportation routed or loading.	ond prescribed limits
2	Noise Environment	1 no of tractor trolley and a tractor for water sprinkling will be source of noise pollution. The impact of noise pollution will be for very short time. No machinery will be use for mining operation.	Noise generated by the transport vehicle will be intermittent and for very short time, it will not cause much adverse impact. Vehicles will be maintained to avoid unnecessary noise. Periodical monitoring of noise will be done to adopt corrective actions wherever needed. Mining shall not be carried out night time, only permitted for day time. No heavy machinery is allowed for excavation only tractor with trolley will be used for transportation of sand from river bed	Vehicle to be maintained in good condition to avoid unnecessary noise. Timely maintenance of vehicles and their silencers to minimize vibration and Sound. Road leveling will be done time to time. Phasing out of old and worn-out tractor trolleys. Provision of green belts along the road networks. Care to be taken to produce minimum sound during sand loading. Use of Backhoe and ear plugs may be provided to protect the labours working at the site. Minimum use of Horns in village area.	Rs 20000/- is proposed for baseline data for one time

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
	speed of vehicles	and regular maintenance of vehi	cles and approach road.		
3.	Water Environment	Ground water: Ground water will not be intersected during mining work. No waste water will be generated from the mining activity of minor minerals as the project only involves lifting of sand from river quarry in dry state. Surface water: no impact anticipated for surface water.	Mining activity will not intersect toground water. Water requirement of 0.50 KLD fordomestic and 1.0 KLD for water sprinkling will be met through water tanker. Low water demand will not be affected to ground water. Mobile Toilets to be provided for waste water generated from labours and Domestic waste to be collected in dust bins and handed over to the local authority for disposal. Mining activity will be done	Mining is stopped during the monsoon season and at the time of floods. This helps in replenishment of sand in the riverbed. Worker to be advised for use the waste bin and Mobile toilets.	Mobile toilet: Rs. 1,20,000/- Waste bin: Rs 750/-
	Conclusions: In this mining project in the entire lease period the ground water table will not be intersected hence there will be no impact on t ground waterenvironment and any hazards waste will not be met to surface water. Advised to workers use the dust bin to dispose any domes solid waste.		-		
4	Land Environment	Road will be degraded due to transportation. River course erosion due to mined out sand from river.	Regular water sprinkling will be done. Road of 1.10 km length will be maintained in good condition by using local earth material.	Mining activity will be done as per Rule 23 of MMME (D&R) Rule 2013 and Maharashtra Sand policy 03.09.2019. Mining activity will be done up to	Rs. 25,650/- Roadmaintenance

Environment

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
			Mining activity will be done in 33750 sq m area sand from river will be restricted to maximum depth of 0.40 m as per GSDA survey. Mining activity will not done near the river banks. Mining activity will be donein dry bed only. Monitoring will be done to meet the criteria of parameters as per norms of CPCB/ SPCB.	0.40 m depth and dry bed only. Mining will not be done near river banks.	
		kers working with prescribed ma	anner only use the dustbin and m	nobile toilet to prevent disposal of so	lid waste and waste
5	Biological Environment	No impact anticipated on biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on nearby crops. Pit developed due to mining may be dangerous for animals	3 tractor trips per day will be use for transportation of sand. So anticipated suspended particulates are in negligible. Protective measures like water spraying on unpaved road, leveling of unpaved road and sand covered after loading will be used to prevent.	Water spraying on haul road and time to time maintenance will be done to avoid dustgeneration. Greenbelt Development and Bio-Diversity Preservation Plantation activities will be carried out at the bank of the river and along the haul roads. This activity will help for maintaining ecology and environment of the area.	Rs 30,000/- water sprinkling

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
	Conclusions: Not any impact is anticipated on nearby fauna and Flora due to proposed mining activity. Suggested to lease adopt the mitigation measures for dust suppression.				
6.	Socio- Economic Environment	Negative impact is not anticipated on socio-economic environment. Over all positive impact will be done due to proposed mining activity like employment, availability of sand.	Employment will be given to localpeople for unskilled and skilled labors.	Preference to be given to local people.	
	Conclusion: Preference given	to local people for employment a	as labor.		
7	Occupational Health & Safety	Hazards on site are anticipated like health issue due to dust, dehydration, heat expose and rest shed. Accident from spades and heavy boulder.	First aid box to be provided for initial treatment. Temporary shed will be provided. Notice board will be placed at mining site, and guard will be posted in three shifts to prevent any accident.	First aid and sanitary facility provide to workers.	Total Amount: Rs 1,32,850/- Rs 2500/- for First Aid Box Rs 2000/- Personal Protective Equipment Rs 8000/- For Temporary shed Rs.1,20,000/- Mobile Toilet Rs 750/- waste bin
	Conclusion: Suggested to prov	vided First aid and sanitary facili	ty to workers.	,	
8.	Waste/	No waste will be generated	No waste/ overburden will	No waste/ overburden will be	

Environment Management Plan of Sand Ghats Saoner Taluka, Nagpur

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
	Overburden	from mining of mineral.	be generated from the river	generated, thus management	
		Overburden or top soil is	sand mining project, thus not	plan does not required for	
		absent in the proposed	any mitigation measure or	Waste/ overburden. Domestic	
		river sand project.	management plan is adopted.	waste generated to be collected	
				in dust bins and handed over to	
	the local authority for disposal				
	Conclusion:				
	Waste is not antic	ipated in River sand mining activ	rity as well as top soil and overbu	arden also absent in the proposed riv	er sand project.

8. FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures. Fund provision for EMP is given in below.

Table 2: Environmental Management Plan Budget

S No	Particulars	Amount in Rs
1.	Environment Monitoring (Air, Water, Soil and Noise)	20000
2.	Water Sprinkling	30000
3.	Unpaved/ Haul road maintenance	25650
4.	Occupational Health & safety (Mobile toilet and PPE	
	- Safety Shoes, Earmuffs & Mask etc.)	132850
5.	Tarpaulin	15000
6.	Plantation	15000
7.	Security	10000
	Total	2,48,500/-

APPENDIX VIII (See paragraph 6) FORM 1 M

APPLICATION FOR MINING OF MINOR MINERALS UNDER CATEGORY 'B2' FOR LESS THAN AND EQUAL TO FIVE HECTARE

BASIC INFORMATION

- I. Name of the Mining Lease site: Wakodi Sand Spot over an extent of 3.50 ha. at Kanhan River Bed, Gut No.44-part, Village Wakodi, Tehsil Saoner, District Nagpur, Maharashtra
- II. Location / site (GPS Co-ordinates):

Points	Longitude	Latitude
BP-1	21°24'20.43"N	79°1'10.39"E
BP-2	21°24'20.33"N	79°1'11.96"E
BP-3	21°24'19.70"N	79°1'14.75"E
BP-4	21°24'16.82"N	79°1'21.42"E
BP-5	21°24'14.49"N	79°1'24.32"E
BP-6	21°24'13.35"N	79°1'26.32"E
BP-7	21°24'12.92"N	79°1'26.97"E
BP-8	21°24'11.19"N	79°1'25.51"E
BP-9	21°24'11.88"N	79°1'24.48"E
BP-10	21°24'12.15"N	79°1'23.79"E
BP-11	21°24'12.89"N	79°1'22.61"E
BP-12	21°24'14.19"N	79°1'21.12"E
BP-13	21°24'15.00"N	79°1'19.97"E
BP-14	21°24'17.15"N	79°1'15.53"E
BP-15	21°24'17.55"N	79°1'14.01"E

BP-16	21°24'18.07"N	79°1'11.68"E
BP-17	21°24'18.17"N	79°1'10.20"E

III. Size of the Mining Lease (Hectare): 3.50

IV. Capacity of Mining Lease (TPA): 4946 Brass

V. Period of Mining Lease: 01 years

VI. Expected cost of the Project: INR 1.23 Crores

VII. Contact Information: District Mining Officer, Nagpur

ENVIRONMENTAL SENSITIVITY

S. N	ITEMS	DETAILS
1.	Distance of project site from nearest rail or roadbridge over the concerned River, Rivulet, Nalla etc.	Nil
2.	 Distance from infrastructural facilities Railway line National Highway State Highway Major District Road Any Other Road Electric transmission line pole or tower Canal or check dam or reservoirs or lake or ponds In-take for drinking water pump houseIntake for Irrigation canal pumps 	 Malegaon railway station at a distance of ~6.58 kms towards East. NH 47 at a distance of ~6.30km towards East Approach road at distance of 4.36km towards South NA Nil Wakodi village,2.22km, South West Wakodi village,2.22km, South West
3.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	
4.	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	Kanhan River bed
5.	Areas used by protected, important or	Nil

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	sensitive species of flora or fauna for breeding, nesting, foraging, resting, overwintering, migration	
6.	Inland, coastal, marine or underground waters	Kanhan River Bed
7.	State, National boundaries	Nil
8.	Routes or facilities used by the public for access to recreation or other tourist, Pilgrim areas	NH 47 at a distance of ~6.30km towards East
9.	Defense installations	Nil
10.	Densely populated or built-up area, distance from nearest human habitation	Wakodi village 2.22km, South West
11.	Areas occupied by sensitive man-made land uses (Hospitals, schools, places of worship, community facilities)	Ameya Multispeciality hospital, Saoner-15.23km, South
12.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	Kanhan River (this is the case of river sandmining)
13.	Areas already subjected to pollution or environmental damage. (Those where existing legal environmental standards are exceeded)	or environmental damage.
14.	Areas susceptible to natural hazard which could cause the project to present environmental problems (Earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions)	Active), according to the Indian Standard Seismic Zoning Map.
15.	Is proposed mining site located over or near fissure / fracture for ground water recharge	This is River sand mining project.
16.	Whether the proposal involves approval or clearance under the following Regulations or Acts, namely: - (d) The Forest (Conservation) Act, 1980; (e) The Wildlife (Protection) Act, 1972; (f) The Coastal Regulation Zone Notification, 2011. If yes, details of the same and their status tobe given.	No
17.	Forest land involved (hectares)	No forest land involved
18.	Whether there is any litigation pending againstthe project and/or land in which the project is propose to be set up? (c) Name of the Court (d) Case No. Orders or directions of the Court, if any,and its relevance with the proposed project.	No litigation pending against the project and/or land in any court
	its relevance with the proposed project.	

"I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of

the data and information submitted is found to be false or misleading at any stage, the project

will be rejected and clearance give, if any to the project will be revoked at our risk and cost.

Date: __/12/2021

Environment Management Plan For

Ramdongri -B Sand Ghat, Saoner Taluka, Nagpur District, State Maharasthra

Name of Sand Ghat	Tehsil	Name of river	Nearest Gut No.	Area in ha	Area in cum LxBxD (m3)	Available Sand in Brass
Ramdongri -B	Saoner	Kanhan	143 (Part) & 144 (Part)	4.00	400X100X0.3	4240

Project Proponent District Mining Officer, Collector Office, Nagpur

Environment Consultant Open Arch Design and Enviro Solutions LLP



NABET/EIA/2124/IA0081

openarchdesign@gmail.com

Contact no.:9004778386

December 2021

ENVIRONMENT MANAGEMENT PLAN

Name of Sand Ghat :Ramdongri -B Sand Ghat, Gut No143(part)&144(Part)

Taluka : Saoner

District : Nagpur (Maharashtra)

9. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of 4.00ha on Kanhan River adjoiningGut No143 (part) & 144(Part), village Ramdongri, Tehsil Saoner, District Nagpur (Maharashtra). It has been proposed to collect approximately 4240 Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts on various features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 4240 Brass per annum.

10. PURPOSE OF EMP

The purpose of an EMP is to

- Assists project proponent in the preparation of an effective and user-friendly activity chart for environment management.
- Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- ➤ Ensure that environment management details is captured and documented at all stages of a project.

11. MATRIX FOR EMP

Environment Management plan matrix is given in Table no.1.

Table 1: Environmental Management Plan Matrix

	Table 1: Environmental Management Plan Matrix				
#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
1.	Air	5. Dust generation due to	1. 1.0 KLD water will be	<u>Unpaved Roads</u>	Rs.75,000/- Water
	Environment	transportation material	use for regular water	Water sprinkling will be done	sprinkling
		by 2 no oftractor trolley	spraying of 1.10 km	for dust suppression for 1.10 km	
		perday.	distance of road.	distance from minesite.	Rs.20000/-
		6. In mining activities, the	Regularly road leveling	To maintain the uniform speed	Tarpaulin
		only source of gaseous	and maintenance will be	of the trucks/tippers. Leveling	D 05000/
		emissions is from the	done.	will be done.	Rs 85000/- is
		engines of transport	Loading material will be	Paved Roads	proposed for
		vehicles.	covered with tarpaulin	The roads will be maintained	baseline data for
			and overloading will be	regularly. Limited speed will be	one time.
			avoided.	adopted by transportvehicles.	
			2. PUC certified vehicles	The loaded vehicles will be	
			will be used for	covered withtarpaulin.	
			transportation and run	Transportation vehicles	
			under limited speed.	The vehicles will be kept at	
			Regular maintenance will	good condition by regular	
			be done of vehicles.	servicing and maintenance.	
			3. In addition to prevent	PUC certified vehicle will be	
			spillage by tractor trolleys	used. Overloading will be	
			over loading should be	avoided. Air monitoring will be	
			controlled along with	done to check the criteria of air	
			speed limit (1Brass	pollutants.	

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
			/tractor trolley).		
	Conclusion:				1
In this proposed mining project the suspended particulates from unpaved road and emission from transportation vehicle's en					chicle's engine are the
	source air pollu	ition. The proposed mining operat	ions are not anticipated to raise th	ne concentration of the pollutants bey	ond prescribed limits
	However, the m	easuresare suggested to mitigate	any harmful impacts of pollutant	ts like planning transportation route	s of mined material so
	as to reach the	nearest paved roads by shortest r	oute and avoid over speed and ov	er loading.	
2	Noise	1 no of tractor trolley and a	Noise generated by the	Vehicle to be maintained in good	Rs 85000/- is
	Environment	tractor for water sprinkling	transport vehicle will be	condition to avoid unnecessary	proposed fo
		will be source of noise	intermittent and for very	noise. Timely maintenance of	baseline data fo
		pollution. The impact of	short time, it will not cause	vehicles and their silencers to	one time
		noise pollution will be for	much adverse impact.	minimize vibration and Sound.	
		very short time. No	Vehicles will be maintained	Road leveling will be done time	
		machinery will be use for	to avoid unnecessary noise.	to time. Phasing out of old and	
		mining	Periodical monitoring of	worn-out tractor trolleys.	
		operation.	noise will be done to adopt	Provision of green belts along the	
			corrective actions wherever	road networks. Care to be taken	
			needed. Mining shall not be	to produce minimum sound	
			carried out night time, only	during sand loading. Use of	
			permitted for day time. No	Backhoe and ear plugs may be	
			heavy machinery is allowed	provided to protect the labours	
			for excavation only tractor	working at the site. Minimum use of Horns in village area.	
			with trolley will be used for	of norms in vinage area.	
			transportation of sand from		
			river bed		

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget	
	speed of vehicles and regular maintenance of vehicles and approach road.					
3.	Water Environment	Ground water: Ground water will not be intersected during mining work. Surface water: no impact anticipated for surface water.	Mining activity will not intersect toground water. Water requirement of 0.50 KLD fordomestic and 1.0 KLD for water sprinkling will be met through water tanker. Low water demand will not be affected to ground water. Mobile Toilet and Waste bins will be provided for domestic waste. Mining activity will be done in dry bed only.	Worker to be advised for use the waste bin and Mobile toilet.	Mobile toilet: Rs. 1,20,000/- Waste bin: Rs 750/-	
4	٠.	-	d the ground water table will n	Mining activity will be done as per Rule 23 of MMME (D&R) Rule 2013 and Maharashtra Sand policy 03.09.2019. Mining activity will be done up to 0.40 m depth and dry bed only. Mining will not be done near river banks.	-	

Particulars	Impact	Mitigations Measures	Management Plan	Budget
		as per GSDA survey. Mining		
		activity will not be carried		
		near the river banks. Mining		
		activity will be done in dry		
		bed only.		
		Monitoring will be done to		
		meet the criteria of		
		parameters as per norms of		
		CPCB/ SPCB.		
Suggested to wo		anner only use the dustbin and n	nobile toilet to prevent disposal of so	lid waste and waste
Biological Environment	No impact anticipated on biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on nearby crops. Pit developed due to mining may be dangerous	3 tractor trips per day will be use for transportation of sand. So anticipated suspended particulates are in negligible. Protective measures like water spraying on unpaved road, leveling of unpaved road and sand covered after loading will be used to prevent.	Water spraying on haul road and time to time maintenance will be done to avoid dust generation. Greenbelt Development and Bio-Diversity Preservation Plantation activities will be carried out at the bank of the river and along the haul roads. This activity will help for maintaining ecology and environment of the area.	Rs 75,000/- water sprinkling
	water in therive	Suggested to workers working with prescribed m water in theriver and nearby land surface Biological Environment No impact anticipated on biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on nearby crops.	activity will not be carried near the river banks. Mining activity will be done in dry bed only. Monitoring will be done to meet the criteria of parameters as per norms of CPCB/ SPCB. Conclusions: Suggested to workers working with prescribed manner only use the dustbin and n water in theriver and nearby land surface Biological Environment No impact anticipated on biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on nearby crops. activity will not be carried near the river banks. Mining activity will be done to meet the criteria of parameters as per norms of CPCB/ SPCB. 3 tractor trips per day will be use for transportation of sand. So anticipated suspended particulates are in negligible. Protective measures like water spraying on unpaved road, leveling of unpaved road and sand covered after	activity will not be carried near the river banks. Mining activity will be done in dry bed only. Monitoring will be done to meet the criteria of parameters as per norms of CPCB/ SPCB. Conclusions: Suggested to workers working with prescribed manner only use the dustbin and mobile toilet to prevent disposal of so water in theriver and nearby land surface Biological Biological environment on biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on nearby crops. Suggested to workers working with prescribed manner only use the dustbin and mobile toilet to prevent disposal of so water in theriver and nearby land surface 3 tractor trips per day will be use for transportation of sand. So anticipated suspended particulates are in negligible. Protective measures like water spraying on unpaved road, leveling of unpaved road and sand covered after This activity will help for

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
6.	Socio- Economic Environment	Negative impact is not anticipated on socio-economic environment. Over all positive impact will be done due to proposed mining activity like employment, availability of sand.	Employment will be given to local people for unskilled and skilled labors.	Preference to be given to local people.	
	Conclusion:				
	Preference given	to local people for employment a	as labor.		
7	Occupational Health & Safety	Hazards on site are anticipated like health issue due to dust, dehydration, heat expose and rest shed. Accident from spades and heavy boulder.	First aid box to be provided for initial treatment. Temporary shed will be provided. Notice board will be placed at mining site, and guard will be posted in three shifts to prevent any accident.	First aid and sanitary facility provide to workers.	Total Amount: Rs 1,33,200/- Rs 2500/- for First Aid Box Rs 4000/- Personal Protective Equipment Rs 10000/- For Temporary shed Rs.1,20,000/- Mobile Toilet Rs 750/- waste bin
	Conclusion: Suggested to prov	vided First aid and sanitary facilit	ty to workers.		,
8.	Waste/ Overburden	No waste will be generated from mining of mineral. Overburden or top soil is absent in the proposed	No waste/ overburden will be generated from the river sand mining project, thus not any mitigation measure or	No waste/ overburden will be generated, thus management plan does not required for Waste/ overburden. Domestic	

Environment Management Plan of Sand Ghats Saoner Taluka, Nagpur

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
		river sand project.	management plan is adopted.	waste generated to be collected	
				in dust bins and handed over to	
				the local authority for disposal.	
	Conclusion:				
	Waste is not anticipated in River sand mining activity as well as top soil and overburden also absent in the proposed river sand project.				

12. FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures. Fund provision for EMP is given in below.

Table 2: Environmental Management Plan Budget

S No	Particulars	Amount in Rs
1.	Environment Monitoring (Air, Water, Soil and Noise)	85000
2.	Water Sprinkling	75000
3.	Unpaved/ Haul road maintenance	55750
4.	Occupational Health & safety (Mobile toilet and PPE	
	- Safety Shoes, Earmuffs & Mask etc.)	133200
5.	Tarpaulin	20000
6.	Plantation	15000
7.	Security	10000
	Total	393950

APPENDIX VIII

(See paragraph 6) FORM 1 M

APPLICATION FOR MINING OF MINOR MINERALS UNDER CATEGORY 'B2' FOR LESS THAN AND EQUAL TO FIVE HECTARE

(I) BASIC INFORMATION

- i. Name of the Mining Lease site: Ramdongri B Sand Ghat over an extent of 4.00 ha. at Gut No143(part)&144(Part), Village Ramdongari, Tehsil Soaner, District- Nagpur, Maharashtra
- ii. Location / site (GPS Co-ordinates):

Points	Longitude	Latitude
BP-1	21°23'40.85"N	79°0'24.93"E
BP-2	21°23'37.52"N	79°0'24.39"E
BP-3	21°23'36.41"N	79°0'28.32"E
BP-4	21°23'36.00"N	79°0'34.55"E
BP-5	21°23'37.02"N	79°0'38.47"E
BP-6	21°23'40.25"N	79°0'38.43"E
BP-7	21°23'39.21"N	79°0'34.01"E
BP-8	21°23'39.61"N	79°0'28.95"E

iii. Size of the Mining Lease (Hectare): 4.00

iv. Capacity of Mining Lease (TPA): 4240Brass

v. Period of Mining Lease: 01 years

vi. Expected cost of the Project: INR 0.53 Cr.

vii. Contact Information: District Mining Officer, Nagpur

EVIRONMENTAL SENSITIVITY

S. N	ITEMS	DETAILS
1.	Distance of project site from nearest rail or roadbridge over the concerned River, Rivulet, Nalla etc.	
2.	 Railway line National Highway State Highway Major District Road Any Other Road Electric transmission line pole or tower Canal or check dam or reservoirs or lake or ponds In-take for drinking water pump houseIntake for Irrigation canal pumps 	 Takli railway station at a distance of ~4.55 kms towards South. SH 249 at a distance of 3.17km towards South The sand spot area is connected to approached Ramdongri-khapa road at a distance of 0.50km in North. Nil Ramdongri village,550m, North Ramdongri village, 550m, North
3.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	
4.	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	
5.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, overwintering, migration	
6.	Inland, coastal, marine or underground waters	Kanhan River Bed
7.	State, National boundaries	Nil
8.	Routes or facilities used by the public for access to recreation or other tourist, Pilgrim areas	
9.	Defense installations	Nil
10.	Densely populated or built-up area, distance from nearest human habitation	Ramdongri village,550m, North
11.	Areas occupied by sensitive man-made land uses (Hospitals, schools, places of worship, community facilities)	Small temple in village Ramdongri at about 400 m
12.	Areas containing important, high quality or scarce resources (ground water resources,	Kanhan River (this is the case of river sandmining)

	surface resources, forestry, agriculture, fisheries, tourism, minerals)	
13.	Areas already subjected to pollution or environmental damage. (Those where existing legal environmental standards are exceeded)	or environmental damage.
14.	Areas susceptible to natural hazard which could cause the project to present environmental problems (Earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions)	The mine lease area falls in Seismic Zone II (Least Active), according to the Indian Standard Seismic Zoning Map.
15.	Is proposed mining site located over or near fissure / fracture for ground water recharge	This is River sand mining project.
16.	Whether the proposal involves approval or clearance under the following Regulations or Acts, namely: - (g) The Forest (Conservation) Act, 1980; (h) The Wildlife (Protection) Act, 1972; (i) The Coastal Regulation Zone Notification, 2011. If yes, details of the same and their status tobe given.	No
17.	Š	No forest land involved
18.	Whether there is any litigation pending againstthe project and/or land in which the project is propose to be set up? (e) Name of the Court (f) Case No. Orders or directions of the Court, if any, and its relevance with the proposed project.	No litigation pending against the project and/or land in any court

"I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.

Date: __/12/2021

Environment Management Plan For

Karajghat Sand Ghat, Saoner Taluka, Nagpur District, State Maharasthra

Name of	Tehsil	Name of	Nearest Gut No.	Area in	Area in	Available
Sand		river		ha	cum	Sand in
Ghat					LxBxD (m3)	Brass
Karajghat	Saoner	Kanhan	15(part)	3.52	470X75X0.4	4982

Project Proponent District Mining Officer, Collector Office, Nagpur

Environment Consultant Open Arch Design and Enviro Solutions LLP



NABET/EIA/2124/IA0081

openarchdesign@gmail.com

Contact no.:9004778386

December 2021

ENVIRONMENT MANAGEMENT PLAN

Name of Sand Ghat :Karajghat Sand Ghat, Gut No15(part)

Taluka : Saoner

District : Nagpur (Maharashtra)

13. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of 3.52ha on Kanhan River adjoiningGut No.15 (part) village Karajghat, Tehsil Saoner, District Nagpur (Maharashtra). It has been proposed to collect approximately 4982 Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts on various features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 4982 Brass per annum.

14. PURPOSE OF EMP

The purpose of an EMP is to

- Assists project proponent in the preparation of an effective and user-friendly activity chart for environment management.
- Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- Ensure that environment management details is captured and documented at all stages of a project.

15. MATRIX FOR EMP

Environment Management plan matrix is given in Table no.1.

Table 1: Environmental Management Plan Matrix

	Table 1: Environmental Management Plan Matrix				
#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
1.	Air	7. Dust generation due to	6. 1.0 KLD water will be use	<u>Unpaved Roads</u>	Rs.75,000/- Water
	Environment	transportation material	for regular water spraying	Water sprinkling will be done	sprinkling
		by 2 no oftractor trolley	of 1.10 km distance of	for dust suppression for 1.10 km	
		perday.	road.	distance from minesite.	Rs.31500/-
		8. In mining activities, the	Regularly road leveling	To maintain the uniform speed	Tarpaulin
		only source of gaseous	and maintenance will be	of the trucks/tippers. Leveling	
		emissions is from the	done.	will be done.	Rs 62000/- is
		engines of transport	Loading material will be	Paved Roads	proposed for
		vehicles.	covered with tarpaulin	The roads will be maintained	baseline data for
			and overloading will be	regularly. Limited speed will be	one time.
			avoided.	adopted by transportvehicles.	
			7. PUC certified vehicles will	The loaded vehicles will be	
			beused for transportation	covered withtarpaulin.	
			and run under limited	Transportation vehicles	
			speed. Regular	The vehicles will be kept at	
			maintenance will be done	good condition by regular	
			of vehicles.	servicing and maintenance.	
			8. In addition to prevent	PUC certified vehicle will be	
			spillage by tractor trolleys	used. Overloading will be	
			over loading should be	avoided. Air monitoring will be	
			controlled along with	done to check the criteria of air	
			speed limit (1Brass	pollutants.	

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
			/tractor trolley).		
	Conclusion:				1
	In this proposed mining project the suspended particulates from unpaved road and emission from transportation vehicle's engi				
	source air pollu	ition. The proposed mining operat	ions are not anticipated to raise th	ne concentration of the pollutants bey	ond prescribed limits
	However, the m	easuresare suggested to mitigate	any harmful impacts of pollutant	ts like planning transportation route	s of mined material so
	as to reach the	nearest paved roads by shortest r	oute and avoid over speed and ov	rer loading.	
2	Noise	1 no of tractor trolley and a	Noise generated by the	Vehicle to be maintained in good	Rs 62000/- is
	Environment	tractor for water sprinkling	transport vehicle will be	condition to avoid unnecessary	proposed fo
		will be source of noise	intermittent and for very	noise. Timely maintenance of	baseline data fo
		pollution. The impact of	short time, it will not cause	vehicles and their silencers to	one time
		noise pollution will be for	much adverse impact.	minimize vibration and Sound.	
		very short time. No	Vehicles will be maintained	Road leveling will be done time	
		machinery will be use for	to avoid unnecessary noise.	to time. Phasing out of old and	
		mining	Periodical monitoring of	worn-out tractor trolleys.	
		operation.	noise will be done to adopt	Provision of green belts along the	
			corrective actions wherever	road networks. Care to be taken	
			needed. Mining shall not be	to produce minimum sound	
			carried out night time, only	during sand loading. Use of	
			permitted for day time. No	Backhoe and ear plugs may be	
			heavy machinery is allowed	provided to protect the labours	
			for excavation only tractor	working at the site. Minimum use	
			with trolley will be used for	of Horns in village area.	
			transportation of sand from		
			river bed		

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
	speed of vehicles	and regular maintenance of vehi	cles and approach road.	,	
3.	Water Environment	Ground water: Ground water will not be intersected during mining work. No waste water will be generated from the mining activity of minor minerals as the project only involves lifting of sand from river quarry in dry state. Surface water: no impact anticipated for surface water.	Mining activity will not intersect toground water. Water requirement of 0.50 KLD fordomestic and 1.0 KLD for water sprinkling will be met through water tanker. Low water demand will not be affected to ground water. Mobile Toilets will be provided for waste water and Domestic waste to be collected in dust bins and handed over to the local authority for disposal. Mining activity will be done in dry bed only.	Mining is stopped during the monsoon season and at the time of floods. This helps in replenishment of sand in the riverbed. Worker to be advised for use the waste bin and Mobile toilets.	Mobile toilet: Rs. 1,20,000/- Waste bin: Rs 750/-
	Conclusions: In this mining project in the entire lease period the ground water table will not be intersected hence there will be no impact on t ground waterenvironment and any hazards waste will not be met to surface water. Advised to workers use the dust bin to dispose any domes solid waste.		dispose any domestic		
4	Land Environment	Road will be degraded due to transportation. River course erosion due to mined out sand from river.	Regular water sprinkling will be done. Road of 1.10 km length will be maintained in good condition by using local earth material. Mining activity will be done in	Mining activity will be done as per Rule 23 of MMME (D&R) Rule 2013 and Maharashtra Sand policy 03.09.2019. Mining activity will be done up to 0.40 m depth and dry bed only.	Rs. 63,650/- Roadmaintenance

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
			35250 sq m area sand from	Mining will not be done near	
			river will be restricted to	river banks.	
			maximum depth of 0.40 m as		
			per GSDA survey. Mining		
			activity will not done near the		
			river banks. Mining activity		
			will be donein dry bed only.		
			Monitoring will be done to		
			meet the criteria of		
			parameters as per norms of		
			CPCB/ SPCB.		
	Conclusions:				
	Suggested to work	kers working with prescribed ma	anner only use the dustbin and m	nobile toilet to prevent disposal of so	lid waste and waste
	water in theriver	and nearby land surface			
5	Biological	No impact anticipated on	3 tractor trips per day will be	Water spraying on haul road and	Rs 75,000/- water
	Environment	biological environment due	use for transportation of	time to time maintenance will be	sprinkling
		to proposed mining activity	sand. So anticipated	done to avoid dust generation.	
		as mining activity will be	suspended particulates are in	Greenbelt Development and Bio-	
		carried out in running dry	negligible.	Diversity Preservation	
		river bed.	Protective measures like	Plantation activities will be	
		Suspended particulates are	water spraying on unpaved	carried out at the bank of the	
		only source, which has the	road, leveling of unpaved	river and along the haul roads.	
		impact on nearby crops.	road and sand covered after	This activity will help for	
		Pit developed due to	loading will be used to	maintaining ecology and	
		mining may be dangerous	prevent.	environment of the area.	
		for animals			
	Conclusions:				

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
	1 '	•	Flora due to proposed mining a	ctivity. Suggested to lease adopt the 1	nitigation measures
	for dust suppress	ion.			
6.	Socio- Economic Environment	Negative impact is not anticipated on socio-economic environment. Over all positive impact will be done due to proposed mining activity like employment, availability of sand.	Employment will be given to localpeople for unskilled and skilled labors.	Preference to be given to local people.	
	Conclusion: Preference given	to local people for employment a	as labor.		
7	Occupational Health & Safety	Hazards on site are anticipated like health issue due to dust, dehydration, heat expose and rest shed. Accident from spades and heavy boulder.	First aid box to be provided for initial treatment. Temporary shed will be provided. Notice board will be placed at mining site, and guard will be posted in three shifts to prevent any accident.	First aid and sanitary facility provide to workers.	Total Amount: Rs 1,32,850/- Rs 2500/- for First Aid Box Rs 4000/- Personal Protective Equipment Rs 10000/- For Temporary shed Rs.1,20,000/- Mobile Toilet Rs 750/- waste bin
	Conclusion: Suggested to prov	vided First aid and sanitary facilit	ry to workers.		
8.	Waste/	No waste will be generated	No waste/ overburden will	No waste/ overburden will be	
	Overburden	from miningof mineral.	be generated from the river	generated, thus management	

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
		Overburden or top soil is	sand mining project, thus not	plan does not required for	
		absent in the proposed	any mitigation measure or	Waste/ overburden. Domestic	
	river sand project. management plan is adopted. waste generated to be collected				
	in dust bins and handed over to				
	the local authority for disposal.				
	Conclusion:				
	Waste is not antic	ipated in River sand mining activ	rity as well as top soil and overbu	arden also absent in the proposed rive	er sand project.

16. FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures. Fund provision for EMP is given in below.

Table 2: Environmental Management Plan Budget

S No	Particulars	Amount in Rs
1.	Environment Monitoring (Air, Water, Soil and Noise)	62000
2.	Water Sprinkling	75000
3.	Unpaved/ Haul Road maintenance	63650
4.	Occupational Health & safety (Mobile toilet and PPE	
	- Safety Shoes, Earmuffs & Mask etc.)	132850
5.	Tarpaulin	15000
6.	Plantation	31500
7.	Security	10000
	Total	3,90,000/-

APPENDIX VIII (See paragraph 6) FORM 1 M

APPLICATION FOR MINING OF MINOR MINERALS UNDER CATEGORY 'B2' FOR LESS THAN AND EQUAL TO FIVE HECTARE

BASIC INFORMATION

- i. Name of the Mining Lease site: Karajghat Sand Spot over an extent of 3.52 ha. at Kanhan River Bed, Gut No.15-part, Village Karajghat, Tehsil Saoner, District Nagpur, Maharashtra
- ii. Location / site (GPS Co-ordinates):

Points	Longitude	Latitude
BP-1	21°26'34.66"N	78°58'12.12"E
BP-2	21°26'37.07"N	78°58'12.39"E
BP-3	21°26'36.48"N	78°58'14.87"E
BP-4	21°26'34.89"N	78°58'17.20"E
BP-5	21°26'31.58"N	78°58'19.36"E
BP-6	21°26'23.76"N	78°58'23.18"E
BP-7	21°26'22.79"N	78°58'21.12"E
BP-8	21°26'30.77"N	78°58'17.07"E
BP-9	21°26'33.46"N	78°58'15.24"E
BP-10	21°26'34.42"N	78°58'13.89"E

iii. Size of the Mining Lease (Hectare): 3.52

iv. Capacity of Mining Lease (TPA): 4982 Brass

v. Period of Mining Lease: 01 years

vi. Expected cost of the Project: INR 1.24 Crores

vii. Contact Information: District Mining Officer, Nagpur

ENVIRONMENTAL SENSITIVITY

S. N	ITEMS	DETAILS
1.	Distance of project site from nearest rail or roadbridge over the concerned River, Rivulet, Nalla etc.	
2.	 Railway line National Highway State Highway Major District Road Any Other Road Electric transmission line pole or tower Canal or check dam or reservoirs or lake or ponds In-take for drinking water pump houseIntake for Irrigation canal pumps 	 Saoner railway station at a distance of ~7.67 kms towards South. NH 47 at a distance of ~2.40km towards South SH 47 at a distance of ~6.70km towards South Approach road at distance of 1.01km towards South NA Nil Karajghat village,1.04km, South West Karajghat village,1.04km, South West
3.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	Nil
4.	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	
5.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, overwintering, migration	
6.	Inland, coastal, marine or underground waters State, National boundaries	Kanhan River Bed Nil
7. 8.	Routes or facilities used by the public for access to recreation or other tourist, Pilgrim	NH 47 at a distance of ~6.30km towards East
9.	areas Defense installations	Nil
10.	Densely populated or built-up area, distance from nearest human habitation	Karajghat village,1.04km, South West
11.	Areas occupied by sensitive man-made land uses (Hospitals, schools, places of worship, community facilities)	Dr. Bhagat Hospital, Saoner-7.99 km, South West

12.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	Kanhan River (this is the case of river sandmining)
13.	Areas already subjected to pollution or	or environmental damage.
14.	Areas susceptible to natural hazard which could cause the project to present environmental problems (Earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions)	Active), according to the Indian Standard Seismic Zoning Map.
15.	Is proposed mining site located over or near fissure / fracture for ground water recharge	This is River sand mining project.
16.	Whether the proposal involves approval or clearance under the following Regulations or Acts, namely: - (j) The Forest (Conservation) Act, 1980; (k) The Wildlife (Protection) Act, 1972; (l) The Coastal Regulation Zone Notification, 2011. If yes, details of the same and their status tobe given.	No
17.	Forest land involved (hectares)	No forest land involved
18.	Whether there is any litigation pending against project and/or land in which the project is propose to be set up? (g) Name of the Court (h) Case No. Orders or directions of the Court, if any, and its relevance with the proposed project.	No litigation pending against the project and/or land in any court

"I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.

Date: __/12/2021

Environment Management Plan For

Esapur Sand Ghat, Saoner Taluka, Nagpur District, State Maharasthra

Name of Sand Ghat	Tehsil	Name of river	Nearest Gut No.	Area in ha	Area in cum LxBxD (m3)	Available Sand in Brass
Esapur	Saoner	Kanhan	90 (Part), 93,94,115 & 116	3.80	475X80X0.45	6042

Project Proponent District Mining Officer, Collector Office, Nagpur

Environment Consultant Open Arch Design and Enviro Solutions LLP



NABET/EIA/2124/IA0081

openarchdesign@gmail.com

Contact no.:9004778386

December 2021

ENVIRONMENT MANAGEMENT PLAN

Name of Sand Ghat :Esapur A Sand Ghat, Gut No. 90 (Part), 93,94,115 & 116

Taluka : Saoner

District : Nagpur (Maharashtra)

I. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of 3.80ha on Kanhan River, Gut No. 90 (Part), 93,94,115 & 116, village Esapur, Tehsil Saoner, District Nagpur (Maharashtra). It has been proposed to collect approximately 6042 Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts on various features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 6042 Brass per annum.

II. PURPOSE OF EMP

The purpose of an EMP is to

- Assists project proponent in the preparation of an effective and user-friendly activity chart for environment management.
- Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- Ensure that environment management details is captured and documented at allstages of a project.

III. MATRIX FOR EMP

Environment Management plan matrix is given in Table no.1.

Table 1: Environmental Management Plan Matrix

	Table 1: Environmental Management Plan Matrix				
#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
1.	Air	9. Dust generation due to	1. 1.0 KLD water will be use	<u>Unpaved Roads</u>	Rs.75,000/- Water
	Environment	transportation material	for regular water	Water sprinkling will be done	sprinkling
		by 2 no oftractor trolley	spraying of 1.10 km	for dust suppression for 1.10 km	
		perday.	distance of road.	distance from minesite.	Rs.20000/-
		10. In mining activities,	2. Regularly road leveling	To maintain the uniform speed	Tarpaulin
		the only source of	and maintenance will	of the trucks/tippers. Leveling	
		gaseous emissions is	be done.	will be done.	Rs 85000/- is
		from the engines of	3. Loading material will	Paved Roads	proposed for
		transport vehicles.	be covered with	The roads will be maintained	baseline data for
			tarpaulin and	regularly. Limited speed will be	one time.
			overloading will be	adopted by transportvehicles.	
			avoided.	The loaded vehicles will be	
			4. PUC certified vehicles	covered withtarpaulin.	
			will be used for	Transportation vehicles	
			transportation and	The vehicles will be kept at	
			run under limited	good condition by regular	
			speed. Regular	servicing and maintenance.	
			maintenance will be	PUC certified vehicle will be	
			done of vehicles.	used. Overloading will be	
			5. In addition to prevent	avoided. Air monitoring will be	
			spillage by tractor	done to check the criteria of air	
			trolleys over loading	pollutants.	

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
			should be controlled		
			along with speed limit		
			(1Brass /tractor		
			trolley).		
	Conclusion:				
	In this proposed	mining project, the suspended J	particulates from unpaved road a	and emission from transportation ve	hicle's engine are the
	source air pollut	ion. The proposed mining operati	ions are not anticipated to raise th	e concentration of the pollutants bey	ond prescribed limits.
	However, the me	asuresare suggested to mitigate	any harmful impacts of pollutant	s like planning transportation routes	s of mined material so
	as to reach the no	earest paved roads by shortest ro	oute and avoid over speed and ov	er loading.	
2	Noise	1 no of tractor trolley and a	Noise generated by the	Vehicle to be maintained in good	Rs 85000/- is
	Environment	tractor for water sprinkling	transport vehicle will be	condition to avoid unnecessary	proposed for
		will be source of noise	intermittent and for very	noise. Timely maintenance of	baseline data for
		pollution. The impact of	short time, it will not cause	vehicles and their silencers to	one time
		noise pollution will be for	much adverse impact.	minimize vibration and Sound.	
		very short time. No	Vehicles will be maintained	Road leveling will be done time	
		machinery will be use for	to avoid unnecessary noise.	to time. Phasing out of old and	
		mining	Periodical monitoring of	worn-out tractor trolleys.	
		operation.	noise will be done to adopt	Provision of green belts along the	
			corrective actions wherever	road networks. Care to be taken	
			needed. Mining shall not be	to produce minimum sound	
			carried out night time, only	during sand loading. Use of	
			permitted for day time. No	Backhoe and ear plugs may be	
			heavy machinery is allowed	provided to protect the labours	
			for excavation only tractor	working at the site. Minimum use	
			with trolley will be used for	of Horns in village area.	
			transportation of sand from		

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget	
			river bed			
	Conclusions:	Conclusions:				
	In conclusion, the	main source of noise for project	will be transportation. Measures	s are suggested to minimize the noise	pollution limited	
	speed of vehicles	and regular maintenance of vehi	cles and approach road.			
3.	Water Environment	water will not be intersected during mining work. No waste water will be generated from the mining activity of minor minerals as the project only involves lifting of sand from river quarry in dry state. Surface water: no impact anticipated for surface water.	Mining activity will not intersect toground water. Water requirement of 0.50 KLD fordomestic and 1.0 KLD for water sprinkling will be met through water tanker. Low water demand will not be affected to ground water. Mobile Toilets will be provided for waste water and Domestic waste to be collected in dust bins and handed over to the local authority for disposal.	Mining is stopped during the monsoon season and at the time of floods. This helps in replenishment of sand in the riverbed. Worker to be advised for use the waste bin and Mobile toilets.	Mobile toilet: Rs. 1,20,000/- Waste bin: Rs 750/-	
			Mining activity will be done			
	Conclusions:		in dry bed only.			
	In this mining project in the entire lease period the ground water table will not be intersected hence there will be no impact on the ground waterenvironment and any hazards waste will not be met to surface water. Advised to workers use the dust bin to dispose any domestic solid waste.					
4	Land Environment	Road will be degraded due to transportation.	Regular water sprinkling will be done. Road of 1.10 km	Mining activity will be done as per Rule 23 of MMME (D&R) Rule	Rs. 55,750/- Roadmaintenance	
		River course erosion due to	length willbe maintained in	2013 and Maharashtra Sand		

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
		mined out sand from river.	good condition by using local earth material. Mining activity will be done in 38000 sq m area sand from river will be restricted to maximum depth of 0.40 m as per GSDA survey. Mining activity will not be carried near the river banks. Mining activity will be carried indry bed only. Monitoring will be done to meet the criteria of parameters as per norms of CPCB/ SPCB.	policy 03.09.2019. Mining activity will be done up to 0.40 m depth and dry bed only. Mining will not be done near river banks.	
	Conclusions: Suggested to workers working with prescribed manner only use the dustbin and matter in theriver and nearby land surface		nobile toilet to prevent disposal of so		
5	Biological Environment	No impact anticipated on biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on nearby crops.	3 tractor trips per day will be use for transportation of sand. So anticipated suspended particulates are in negligible. Protective measures like water spraying on unpaved road, leveling of unpaved road and sand covered after	Water spraying on haul road and time to time maintenance will be done to avoid dustgeneration. Greenbelt Development and Bio-Diversity Preservation Plantation activities will be carried out at the bank of the river and along the haul roads. This activity will help for	Rs 75,000/- watersprinkling

Environmental Management Plan

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
		Pit developed due to mining may be dangerous for animals	loading will be used to prevent.	maintaining ecology and environment of the area.	
	Conclusions: Not any impact is for dust suppress	-	Flora due to proposed mining a	ctivity. Suggested to lease adopt the n	nitigation measures
6.	Socio- Economic Environment	Negative impact is not anticipated on socio-economic environment. Over all positive impact will be done due to proposed mining activity like employment, availability of sand.	Employment will be given to local people for unskilled labor.	Advise to lease given preference to localpeople.	
	Conclusion: Preference given	to local people for employment a	is labor.		
7	Occupational Health & Safety	Hazards on site are anticipated like health issue due to dust, dehydration, heat expose and rest shed. Accident from spades and heavy boulder.	First aid box to be provided for initial treatment. Temporary shed will be provided. Notice board will be placed at mining site, and guard will be posted in three shifts to prevent any accident.	First aid and sanitary facility provide to workers.	Total Amount: Rs 1,32,850/- Rs 2500/- for First Aid Box Rs 4000/- Personal Protective Equipment Rs 10000/- For Temporary shed Rs.1,20,000/- Mobile Toilet

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
					Rs 750/- waste bin
	Conclusion: Suggested to provided First aid and sanitary facility to workers.				
8.	Waste/ Overburden	No waste will be generated from mining of mineral. Overburden or top soil is absent in the proposed river sand project.	No waste/ overburden will be generated from the river sand mining project, thus not any mitigation measure or management plan is adopted.	No waste/ overburden will be generated, thus management plan does not required for Waste/ overburden. Domestic waste generated to be collected in dust bins and handed over to the local authority for disposal.	
	Conclusion: Waste is not anticipated in River sand mining activity as well as top soil and overburden also absent in the proposed river sand project.				

IV. FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring ofenvironment protection measures. Fund provision for EMP is given in below.

Table 2: Environmental Management Plan Budget

S No	Particulars	Amount in Rs
1.	Environment Monitoring (Air, Water, Soil and Noise)	85000
2.	Water Sprinkling	75000
3.	Unpaved/ Haul road maintenance	55750
4.	Occupational Health & safety (Mobile toilet and PPE	
	- Safety Shoes, Earmuffs & Mask etc.)	133200
5.	Tarpaulin	20000
6.	Plantation	15000
7.	Security	10000
	Total	393950

APPENDIX VIII (See paragraph 6) FORM 1 M

APPLICATION FOR MINING OF MINOR MINERALS UNDER CATEGORY 'B2' FOR LESS THAN AND EQUAL TO FIVE HECTARE

I. BASIC INFORMATION

i. Name of the Mining Lease site: Esapur-A Sand Ghat over an extent of 3.80 ha. at Gut No: 90 (Part),93,94,115 & 116, Village Esapur, Tehsil Soaner, District- Nagpur, Maharashtra

ii. Location / site (GPS Co-ordinates):

ion / site (di s co orumates).			
Points	Longitude	Latitude	
BP-1	21°20'47.75"N	79°4'26.08"E	
BP-2	21°20'50.20"N	79°4'26.67"E	
BP-3	21°20'49.62"N	79°4'30.52"E	
BP-4	21°20'47.80"N	79°4'33.80"E	
BP-5	21°20'44.03"N	79°4'36.43"E	
BP-6	21°20'41.50"N	79°4'37.63"E	
BP-7	21°20'38.26"N	79°4'38.44"E	
BP-8	21°20'37.42"N	79°4'36.01"E	
BP-9	21°20'40.88"N	79°4'35.05"E	
BP-10	21°20'46.02"N	79°4'32.14"E	
BP-11	21°20'47.26"N	79°4'29.88"E	

iii. Size of the Mining Lease (Hectare): 3.80

iv. Capacity of Mining Lease (TPA): 6042 Brass

v. Period of Mining Lease: 01 years

- vi. Expected cost of the Project: INR 1.01 Cr.
- vii. Contact Information: District Mining Officer, Nagpur

II. ENVIRONMENTAL SENSITIVITY

S. N	ITEMS	DETAILS
1.	Distance of project site from nearest rail or roadbridge over the concerned River, Rivulet, Nalla etc.	
2.	 Distance from infrastructural facilities Railway line National Highway State Highway Major District Road Any Other Road Electric transmission line pole or tower Canal or check dam or reservoirs or lake or ponds In-take for drinking water pump houseIntake for Irrigation canal pumps 	 Pipla Halt railway station at a distance of ~3.71 kms towards South. NH 47 at a distance of ~4.00km towards South Approach road at distance of 0.37km towards South NA Nil Esapur village,1.21km, South West Esapur village,1.21km, South West
3.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	
4.	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	Kanhan River bed
5.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, overwintering, migration	
6.	Inland, coastal, marine or underground waters	
7.	State, National boundaries	Nil
8.	access to recreation or other tourist, Pilgrim areas	
9.	Defense installations	Nil
10.	Densely populated or built-up area, distance from nearest human habitation	Esapur village,1.21km, South West

11.	Areas occupied by sensitive man-made land uses	Patil Multispeciality Hospital, Saoner 15.82km, South West
	(Hospitals, schools, places of worship, community facilities)	
12.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	Kanhan River (this is the case of river sandmining)
13.	Areas already subjected to pollution or	or environmental damage.
14.	Areas susceptible to natural hazard which could cause the project to present environmental problems (Earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions)	Active), according to theIndian Standard Seismic Zoning Map.
15.	Is proposed mining site located over or near fissure / fracture for ground water recharge	This is River sand mining project.
16.	Whether the proposal involves approval or clearance under the following Regulations or Acts, namely: - (m) The Forest (Conservation) Act, 1980; (n) The Wildlife (Protection) Act, 1972; (o) The Coastal Regulation Zone Notification, 2011. If yes, details of the same and their status tobe given.	No
17.	Forest land involved (hectares)	No forest land involved
18.	Whether there is any litigation pending againstthe project and/or land in which the project is propose to be set up? (i) Name of the Court (j) Case No. Orders or directions of the Court, if any,and its relevance with the proposed project.	No litigation pending against the project and/or land in any court

"I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.

Date: __/12/2021

Environment Management Plan For

Rohana Sand Ghat, Saoner Taluka, Nagpur District, State Maharasthra

Name of Sand Ghat	Tehsil	Name of river	Nearest Gut No.	Area in ha	Area in cum LxBxD (m3)	Available Sand in Brass
Rohana	Saoner	Kanhan	168, 3(Part) & 7B (Part)	2.10	350X60X0.50	3710

Project Proponent District Mining Officer, Collector Office, Nagpur

Environment Consultant Open Arch Design and Enviro Solutions LLP



NABET/EIA/2124/IA0081

openarchdesign@gmail.com

Contact no.:9004778386

December 2021

ENVIRONMENT MANAGEMENT PLAN

Name of Sand Ghat :Rohana Sand Ghat ,Gut No. 168, 3(Part) & 7B (Part)

Taluka : Saoner

District : Nagpur (Maharashtra)

17. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of 2.10ha on Kanhan River, Gut No. 168, 3(Part) & 7B (Part), village Rohana, Tehsil Saoner, District Nagpur (Maharashtra). It has been proposed to collect approximately 3710 Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts on various features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 3710 Brass per annum.

18. PURPOSE OF EMP

The purpose of an EMP is to

- Assists project proponent in the preparation of an effective and user-friendly activity chart for environment management.
- Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- Ensure that environment management details is captured and documented at all stages of a project.

19. MATRIX FOR EMP

Environment Management plan matrix is given in Table no.1.

Table 1: Environmental Management Plan Matrix

	T		anvironmentai Management		1
#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
1.	Air	1. Dust generation due	1KLD water will be use for	<u>Unpaved Roads</u>	Rs.25,500/- Water
	Environment	to transportation	regular water spraying of	Water sprinkling will be done	sprinkling
		material by 01 no of	1.10 km distance of road.	for dust suppression for 1.10 km	
		tractor trolley per	Regularly road leveling and	distance from minesite.	Rs.8000/- Tarpaulin
		day.	maintenance will be done.	To maintain the uniform speed	
		2. In mining activities,	Loading material will be	of the trucks/tippers. Leveling	Rs 25500/- is
		the only source of	covered with tarpaulin and	will be done.	proposed for
		gaseous emissions is	overloading will be avoided.	Paved Roads	baseline data for
		from the engines of	PUC certified vehicles will	The roads will be maintained	one time.
		transport vehicles.	be used for transportation	regularly. Limited speed will be	
			and rununder limited speed.	adopted by transportvehicles.	
			Regular maintenance will be	The loaded vehicles will be	
			done of vehicles.	covered withtarpaulin.	
			In addition to prevent	Transportation vehicles	
			spillage by tractor trolleys	The vehicles will be kept at	
			over loading should be	good condition by regular	
			controlled along with speed	servicing and maintenance.	
			limit (1Brass /tractor	PUC certified vehicle will be	
			trolley)	used. Overloading will be	
				avoided. Air monitoring will be	
				done to check the criteria of air	
				pollutants.	

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
	source air pollu However, the m	ution. The proposed mining operat	ions are not anticipated to raise that any harmful impacts of pollutant	and emission from transportation vene concentration of the pollutants bey ts like planning transportation routed ver loading.	ond prescribed limits.
2	Noise Environment	1 no of tractor trolley and a tractor for water sprinkling will be source of noise pollution. The impact of noise pollution will be for very short time. No machinery will be use for mining operation.	Noise generated by the transport vehicle will be intermittent and for very short time, it will not cause much adverse impact. Vehicles will be maintained to avoid unnecessary noise. Periodical monitoring of noise will be done to adopt corrective actions wherever needed. Mining shall not be carried out night time, only permitted for day time. No heavy machinery is allowed for excavation only tractor with trolley will be used for transportation of sand from river bed	Vehicle to be maintained in good condition to avoid unnecessary noise. Timely maintenance of vehicles and their silencers to minimize vibration and Sound. Road leveling will be done time to time. Phasing out of old and worn-out tractor trolleys. Provision of green belts along the road networks. Care to be taken to produce minimum sound during sand loading. Use of Backhoe and ear plugs may be provided to protect the labours working at the site. Minimum use of Horns in village area.	Rs 25500/- is proposed for baseline data for one time

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
3.	Water	Ground water: Ground	Mining activity will not	Mining is stopped during the	Mobile toilet:
	Environment	water will not be intersected	intersect toground water.	monsoon season and at the time	Rs. 1,20,000/-
		during mining work. No	Water requirement of 0.50	of floods. This helps in	Waste bin: Rs 350/-
		waste water will be	KLD fordomestic and 1.0 KLD	replenishment of sand in the	
		generated from the mining	for water sprinkling will be	riverbed.	
		activity of minor minerals as	met through water tanker.	Worker to be advised for use the	
		the project only involves	Low water demand will not	waste bin and Mobile toilets.	
		lifting of sand from river	be affected to ground water.		
		quarry in dry state.	Mobile Toilets will be		
			provided for waste water		
		Surface water: no impact	and Domestic waste to be		
		anticipated for surface	collected in dust bins and		
		water.	handed over to the local		
			authority for disposal.		
			Mining activity will be done		
			in dry bed only.		
	Conclusions:				
	In this mining pr	roject in the entire lease period	d the ground water table will n	ot be intersected hence there will	be no impact on the
	ground waterenvi	ironment and any hazards waste	will not be met to surface water. A	Advised to workers use the dust bin to	dispose any domestic
	solid waste.				
4	Land	Road will be degraded due to	Regular water sprinkling will	Mining activity will be done as	Rs. 29,150/-
	Environment	transportation.	be done. Road of 1.10 km	per Rule 23 of MMME (D&R) Rule	Roadmaintenance
		River course erosion due to	length will be maintained in	2013 and Maharashtra Sand	
		mined out sand from river.	good condition by using local	policy 03.09.2019.	
			earth material.	Mining activity will be done up to	
			Mining activity will be done in	0.40 m depth and dry bed only.	
			21000 sq m area sand from	Mining will not be done near	

Environment biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on nearby crops. Pit developed due to mining may be dangerous biological environment due to proposed mining activity and. So anticipated sand. So anticipated sand. So anticipated suspended particulates are in negligible. Protective measures like water spraying on unpaved road, leveling of unpaved road and sand covered after loading will be used to mining may be dangerous water spraying of time to time maintenance will be done to avoid dustgeneration. Greenbelt Development and Bio-Diversity Preservation Plantation activities will be carried out at the bank of the river and along the haul roads. This activity will help for maintaining ecology and environment of the area.	#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
Conclusions: Suggested to workers working with prescribed manner only use the dustbin and mobile toilet to prevent disposal of solid waste and was water in theriver and nearby land surface Biological Environment No impact anticipated on biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on nearby crops. Pit developed due to mining may be dangerous Suggested to workers working with prescribed manner only use the dustbin and mobile toilet to prevent disposal of solid waste and was water spraying on haul road and time to time maintenance will be done to avoid dustgeneration. Greenbelt Development and Bio-Diversity Preservation Plantation activities will be carried out at the bank of the river and along the haul roads. This activity will help for maintaining ecology and environment of the area.				maximum depth of 0.40 m as per GSDA survey. Mining activity will not be carried near the river banks. Mining activity will be done in dry bed only. Monitoring will be done to meet the criteria of parameters as per norms of	river banks.	
Environment biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on nearby crops. Pit developed due to mining may be dangerous biological environment due to proposed mining activity and solution of sand. So anticipated sand. So anticipated suspended particulates are in negligible. Protective measures like water spraying on unpaved road, leveling of unpaved road and sand covered after loading will be used to mining may be dangerous watersprinkling time to time maintenance will be done to avoid dustgeneration. Greenbelt Development and Bio-Diversity Preservation Plantation activities will be carried out at the bank of the river and along the haul roads. This activity will help for maintaining ecology and environment of the area.		Suggested to work	9 1	,	nobile toilet to prevent disposal of so	lid waste and waste
The animals	5	<u> </u>	biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on nearby crops. Pit developed due to	use for transportation of sand. So anticipated suspended particulates are in negligible. Protective measures like water spraying on unpaved road, leveling of unpaved road and sand covered after loading will be used to	time to time maintenance will be done to avoid dustgeneration. Greenbelt Development and Bio-Diversity Preservation Plantation activities will be carried out at the bank of the river and along the haul roads. This activity will help for maintaining ecology and	Rs 32,850/-watersprinkling

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
	Not any impact is for dust suppress	-	Flora due to proposed mining a	ctivity. Suggested to lease adopt the r	nitigation measures
6.	Socio- Economic Environment	Negative impact is not anticipated on socio-economic environment. Over all positive impact will be done due to proposed mining activity like employment, availability of sand.	Employment will be given to localpeople for unskilled and skilled labors.	Preference to be given to local people.	
	Conclusion: Preference given	to local people for employment a	s labor.	,	,
7	Occupational Health & Safety	Hazards on site are anticipated like health issue due to dust, dehydration, heat expose and rest shed. Accident from spades and heavy boulder.	First aid box to be provided for initial treatment. Temporary shed will be provided. Notice board will be placed at mining site, and guard will be posted in three shifts to prevent any accident.	First aid and sanitary facility provide to workers.	Total Amount: Rs 1,00,000/- Rs 2500/- for First Aid Box Rs 2000/- Personal Protective Equipment Rs 8000/- For Temporary shed Rs.8000/- Mobile Toilet Rs 350/- waste bin
	Conclusion: Suggested to prov	rided First aid and sanitary facilit	y to workers.	,	1
8.	Waste/ Overburden	No waste will be generated from mining of mineral.	No waste/ overburden will be generated from the river	No waste/ overburden will be generated, thus management	

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget	
		Overburden or top soil is	sand mining project, thus not	plan does not required for		
		absent in the proposed	any mitigation measure or	Waste/ overburden. Domestic		
		river sand project.	management plan is adopted.	waste generated to be collected		
				in dust bins and handed over to		
				the local authority for disposal.		
	Conclusion:					
	Waste is not anticipated in River sand mining activity as well as top soil and overburden also absent in the proposed river sand project.					

20. FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures. Fund provision for EMP is given in below.

Table 2: Environmental Management Plan Budget

S No	Particulars	Amount in Rs
1.	Environment Monitoring (Air, Water, Soil and Noise)	25500
2.	Water Sprinkling	32,850
3.	Unpaved/ Haul Road maintenance	29,150
4.	Occupational Health & safety	1,00,000
5.	Tarpaulin	8000
6.	Plantation	15000
7.	Security	10000
	Total	220500

APPENDIX VIII (See paragraph 6) FORM 1 M

APPLICATION FOR MINING OF MINOR MINERALS UNDER CATEGORY 'B2' FOR LESS THAN AND EQUAL TO FIVE HECTARE

I. BASIC INFORMATION

- i. Name of the Mining Lease site: Rohana Sand Ghat over an extent of 2.10 ha. at Gut No. 168, 3(Part) & 7B (Part), Village Rohana, Tehsil Soaner, District- Nagpur, Maharashtra.
- ii. Location / site (GPS Co-ordinates):

Points	Longitude	Latitude
BP-1	21°19'8.20"N	79°7'1.10"E
BP-2	21°19'9.14"N	79°7'2.96"E
BP-3	21°18'59.21"N	79°7'8.85"E
BP-4	21°18'58.35"N	79°7'7.01"E

(iii) Size of the Mining Lease (Hectare): 2.10

(iv) Capacity of Mining Lease (TPA): 3710Brass

(v) Period of Mining Lease: 01 years

(vi) Expected cost of the Project: INR 0.56 Cr

(vii) Contact Information: District Mining Officer, Nagpur

II. ENVIRONMENTAL SENSITIVITY

S. N	ITEMS	DETAILS
1.	Distance of project site from nearest rail or roadbridge over the concerned River, Rivulet, Nalla etc.	
2.	Distance from infrastructural facilitiesRailway lineNational Highway	 Saoner railway station at a distance of ~7.67 kms towards South.

State HighwayMajor District RoadAny Other Road	 NH 47 at a distance of ~2.40km towards South Approach road at distance of 1.01km
Any Other Road	 Approach road at distance of 1.01km
	ripproudit rough at anotherior of the time
Electric transmission line po or tower	le towards South
Canal or check dam or	• NA
reservoirs or lake or ponds	Nil
 In-take for drinking water pump houseIntake for 	• INII
Irrigation canal pumps	Rohana village,1.17km, West
Areas protected under internation conventions, national or landscape, cultural or other related value	ocal ical,
for ecological reasons - Wetla 4. watercourses or other water boo coastal zone, biospheres, mounta forests	lies, ins,
5. Areas used by protected, importan sensitive species of flora or fauna breeding, nesting, foraging, restoverwintering, migration	for
6. Inland, coastal, marine underground waters	or Kanhan River Bed
7. State, National boundaries	Nil
8. Routes or facilities used by the put for access to recreation or or tourist, Pilgrim areas	blicNH 47 at a distance of ~2.40km towards South her
9. Defense installations	Nil
Densely populated or built-up at 10. distance	rea, Rohana village,1.17km, West
from nearest human habitation Areas occupied by sensitive man-m 11. land uses (Hospitals, schools, places of wors community facilities)	ade Tetramere Hospital, Saoner 9.91km, South hip,
Areas containing important, h quality or scarce resources (grou 12. water resources, surface resource forestry, agriculture, fisher tourism, minerals)	nd mining) es, es,
13. environmental damage. (Those where where the existing legal environmental standard are exceeded)	ards
Areas susceptible to natural haz which could cause the project present environmental problems	

	(Earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions)	
15.	Is proposed mining site located over or nearfissure / fracture for ground water recharge	_ · · · · · · · · · · · · · · · · · · ·
16.	Whether the proposal involves approval or clearance under the following Regulations or Acts, namely: - (p) The Forest (Conservation) Act, 1980; (q) The Wildlife (Protection) Act, 1972; (r) The Coastal Regulation Zone Notification, 2011. If yes, details of the same and their status tobe given.	
17.	Forest land involved (hectares)	No forest land involved
18.	Whether there is any litigation pending againstthe project and/or land in which the project is propose to be set up? (k) Name of the Court (l) Case No. Orders or directions of the Court, if any,and its relevance with the proposed project.	No litigation pending against the project and/or land in any court

"I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.

Date: __/12/2021

Environment Management Plan For

Bawangaon-A Sand Ghat, Saoner Taluka, Nagpur District, State Maharasthra

Name of Sand Ghat	Tehsil	Name of river	Nearest Gut No.	Area in ha	Area in cum LxBxD (m3)	Available Sand in Brass
Bawangaon- A	Saoner	Kanhan	252&253	1.94	243X80X0.40	2747

Project Proponent District Mining Officer, Collector Office, Nagpur

Environment Consultant Open Arch Design and Enviro Solutions LLP



NABET/EIA/2124/IA0081

openarchdesign@gmail.com

Contact no.:9004778386

December 2021

ENVIRONMENT MANAGEMENT PLAN

Name of Sand Ghat :Bawangaon Sand Ghat, Gut No. 252 &253

Taluka : Saoner

District : Nagpur (Maharashtra)

21. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of 1.94ha on Kanhan River, Gut No. 252&253, village Bawangaon, Tehsil Saoner, District Nagpur (Maharashtra). It has been proposed to collect approximately 2747Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts on various features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 2747 Brass per annum.

22. PURPOSE OF EMP

The purpose of an EMP is to

- Assists project proponent in the preparation of an effective and user-friendly activity chart for environment management.
- Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- ➤ Ensure that environment management details is captured and documented at all stages of a project.

23. MATRIX FOR EMP

Environment Management plan matrix is given in Table no.1.

Table 1: Environmental Management Plan Matrix

	Table 1: Environmental Management Plan Matrix				
#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
1.	Air	1. Dust generation due	1. KLD water will be use	<u>Unpaved Roads</u>	Rs.32,850/- Water
	Environment	to transportation	for regular water	Water sprinkling will be done	sprinkling
		material by 01 no of	spraying of 1.10 km	for dust suppression for 1.10 km	
		tractor trolley per	distance of road.	distance from minesite.	Rs.8000/- Tarpaulin
		day.	2. Regularly road	To maintain the uniform speed	
		In mining activities,	leveling and	of the trucks/tippers. Leveling	Rs 25500/- is
		the only source of	maintenance will be	will be done.	proposed for
		gaseous emissions	done.	Paved Roads	baseline data for
		is from the engines	3. Loading material will	The roads will be maintained	one time.
		of transport	be covered with	regularly. Limited speed will be	
		vehicles.	tarpaulin and	adopted by transportvehicles.	
			overloading will be	The loaded vehicles will be	
			avoided.	covered withtarpaulin.	
			4. PUC certified vehicles	Transportation vehicles	
			will be used for	The vehicles will be kept at	
			transportation and	good condition by regular	
			run under limited	servicing and maintenance.	
			speed. Regular	PUC certified vehicle will be	
			maintenance will be	used. Overloading will be	
			done of vehicles.	avoided. Air monitoring will be	
			5. In addition to prevent	done to check the criteria of air	
			spillage by tractor	pollutants.	
			trolleys over loading	•	

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
			should be controlled		
			along with speed limit		
			(1Brass /tractor		
	0 1 1		trolley).		
	Conclusion:				
			•	and emission from transportation ve	•
	=		-	e concentration of the pollutants bey	=
	However, the me	easuresare suggested to mitigate	any harmful impacts of pollutant	s like planning transportation route	s of mined material so
	as to reach the n	earest paved roads by shortest r	oute and avoid over speed and ov	er loading.	
2	Noise	1 no of tractor trolley and a	Noise generated by the	Vehicle to be maintained in good	Rs 25500/- is
	Environment	tractor for water sprinkling	transport vehicle will be	condition to avoid unnecessary	proposed for
		will be source of noise	intermittent and for very	noise. Timely maintenance of	baseline data for
		pollution. The impact of	short time, it will not cause	vehicles and their silencers to	one time
		noise pollution will be for	much adverse impact.	minimize vibration and Sound.	
		very short time. No	Vehicles will be maintained	Road leveling will be done time	
		machinery will be use for	to avoid unnecessary noise.	to time. Phasing out of old and	
		mining	Periodical monitoring of	worn-out tractor trolleys.	
		operation.	noise will be done to adopt	Provision of green belts along the	
		operation	corrective actions wherever	road networks. Care to be taken	
			needed. Mining shall not be	to produce minimum sound	
			carried out night time, only	during sand loading. Use of	
			permitted for day time. No	Backhoe and ear plugs may be	
			1.	provided to protect the labours	
			heavy machinery is allowed	working at the site. Minimum use	
			for excavation only tractor	of Horns in village area.	
			with trolley will be used for	or from its in vinage area.	
			transportation of sand from		
l			river bed		



#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
	Conclusions:				
	In conclusion, the main source of noise for project will be transportation. Measures are suggested to minimize the noise pollution limited				
	speed of vehicles	and regular maintenance of vehi	cles and approach road.		
3.	Water Environment	Ground water: Ground water will not be intersected during mining work. No waste water will be generated from the mining activity of minor minerals as the project only involves lifting of sand from river quarry in dry state. Surface water: no impact anticipated for surface water.	Mining activity will not intersect toground water. Water requirement of 0.50 KLD fordomestic and 1.0 KLD for water sprinkling will be met through water tanker. Low water demand will not be affected to ground water. Mobile Toilets will be provided for waste water and Domestic waste to be collected in dust bins and handed over to the local authority for disposal. Mining activity will be done in dry bed only.	Mining is stopped during the monsoon season and at the time of floods. This helps in replenishment of sand in the riverbed. Worker to be advised for use the waste bin and Mobile toilets.	Mobile toilet: Rs. 1,20,000/- Waste bin: Rs 350/-
	Conclusions: In this mining project in the entire lease period the ground water table will not be intersected hence there will be no impact on the ground waterenvironment and waste will not be met to surface water. Advised to workers to use the dust bin to dispose any domestic solid waste.				
4	Land Environment	Road will be degraded due to transportation. River course erosion due to mined out sand from river.	Regular water sprinkling will be done. Road of 1.10 km length will be maintained in good condition by using local	Mining activity will be done as per Rule 23 of MMME (D&R) Rule 2013 and Maharashtra Sand policy 03.09.2019.	Rs. 29,150/- Roadmaintenance

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
			earth material. Mining activity will be done in 19440 sq m area. Sand from river will be restricted to maximum depth of 0.40 m as per GSDA survey. Mining activity will not be carried near the river banks. Mining activity will be carried indry bed only. Monitoring will be done to meet the criteria of parameters as per norms of CPCB/ SPCB.	Mining activity will be done up to 0.40 m depth and dry bed only. Mining will not be done near river banks.	
		kers working with prescribed ma	anner only use the dustbin and m	nobile toilet to prevent disposal of so	lid waste and waste
5	Biological Environment	No impact anticipated on biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on nearby crops. Pit developed due to	1 tractor trip per day will be use for transportation of sand. Protective measures like water spraying on unpaved road, leveling of unpaved road and sand covered after loading will be used to prevent.	Water spraying on haul road and time to time maintenance will be done to avoid dustgeneration. Greenbelt Development and Bio-Diversity Preservation Plantation activities will be carried out at the bank of the river and along the haul roads. This activity will help for maintaining ecology and	Rs.32 ,800/-water sprinkling

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
		mining may be dangerous for animals.		environment of the area.	
	Conclusions: Not any impact is for dust suppress	-	l Flora due to proposed mining a	ctivity. Suggested to lease adopt the	mitigation measures
6.	Socio- Economic Environment	Negative impact is not anticipated on socio-economic environment. Positive impact due to proposed mining activity are employment, availability of sand.	Employment will be given to localpeople for unskilled and skilled labors.	Preference to be given to local people.	
	Conclusion: Preference given	to local people for employment a	as labor.		'
7	Occupational Health & Safety	On site anticipated hazards are health issue due to dust, dehydration, heat expose and rest shed. Accident from spades and heavy boulder.	First aid box to be provided for initial treatment. Temporary shed will be provided. Notice board will be placed at mining site, and guard will be posted in three shifts to prevent any accident.	First aid and sanitary facility provide to workers.	Total Amount: Rs 1,00,000/- Rs 2500/- for First Aid Box Rs 2000/- Personal Protective Equipment Rs 5150/- For Temporary shed Rs.90,000/- Mobile Toilet Rs 350/- waste bin

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
8.	Waste/ Overburden	No waste will be generated from miningof mineral. Overburden or top soil is absent in the proposed river sand project.	No waste/ overburden will be generated from the river sand mining project.	No waste/ overburden will be generated, thus management plan is not applicable. Domestic waste generated to be collected in dust bins and handed over to the local authority for disposal.	
	Conclusion: Waste is not anticipated in River sand mining activity as well as top soil and overburden also absent in the proposed river sand project.				

24. FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures. Fund provision for EMP is given in below.

Table 2: Environmental Management Plan Budget

S No	Particulars	Amount in Rs		
1.	Environment Monitoring (Air, Water, Soil and Noise)	25500		
2.	Water Sprinkling	32,850		
3.	Unpaved/ Haul Road maintenance	29,150		
4.	Occupational Health & safety	1,00,000		
5.	Tarpaulin	8000		
6.	Plantation	15000		
7.	Security	10000		
	Total 220500			

APPENDIX VIII (See paragraph 6) FORM 1 M

APPLICATION FOR MINING OF MINOR MINERALS UNDER CATEGORY 'B2' FOR LESS THAN AND EQUAL TO FIVE HECTARE

I. BASIC INFORMATION

i. Name of the Mining Lease site: Bawangaon A Sand Ghat over an extent of 1.94 ha. at Gut No.252&253, Village Bawangaon, Tehsil Soaner, District- Nagpur, Maharashtra.

ii. Location / site (GPS Co-ordinates):

Points	Longitude	Latitude
BP-1	21°26'1.06"N	78°58'40.92"E
BP-2	21°25'59.42"N	78°58'38.60"E
BP-3	21°26'5.43"N	78°58'33.45"E
BP-4	21°26'6.93"N	78°58'35.69"E

iii. Size of the Mining Lease (Hectare): 1.94

iv. Capacity of Mining Lease (TPA): 2747 Brass

v. Period of Mining Lease: 01 years

vi. Expected cost of the Project: INR 0.426 Crores

vii. Contact Information: District Mining Officer, Nagpur

II. ENVIRONMENTAL SENSITIVITY

S. N	ITEMS	DETAILS
1.	Distance of project site from nearest rail or roadbridge over the concerned River, Rivulet, Nalla etc.	
	Distance from infrastructural facilities	Railway station and Railway line is not
	 Railway line 	present within 5km radius
2.	 National Highway 	NH-547 is present at an approx. distance
	State Highway	of 5-10 km in west of the sand ghat area
	Major District Road	• SH 249 at a distance of ~1.42km towards

	Any Other Road	South
		 Approach road at distance of 1km
	Electric transmission line pole	towards East
	or tower • Canal or check dam or	• NA
	reservoirs or lake or ponds	• Nil
	 In-take for drinking water pump house. 	• Nil
	Intake for Irrigation canal pumps	Bawangaon village,0.5km, NorthBawangaon village,0.5km, North
3.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	
4.	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	Water bodies: this is the case of river sand mining in Kanhan River bed
5.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, overwintering, migration	
6.	Inland, coastal, marine or underground waters	Kanhan River Bed
7.	State, National boundaries	Nil
	Routes or facilities used by the public for access to recreation or other	
8.	tourist, Pilgrim areas	of 5-10 km in west of the sand ghat area
9.	Defense installations	Nil
10.	Densely populated or built-up area, distance from nearest human habitation	Bawangaon village,0.5km, North
11.	Areas occupied by sensitive man- made land uses(Hospitals, schools, places of worship, community facilities)	Small temple in village Bawangaon at ~483 meter towards North
12.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	Kanhan River (this is the case of river sand mining)
13.	or environmental damage. (Those where existing legal environmental standards are exceeded)	
14.	Areas susceptible to natural hazard which could cause the project to present environmental problems (Earthquakes, subsidence, landslides,	The mine lease area falls in Seismic Zone II (Least Active), according to the Indian Standard Seismic Zoning Map.

	erosion, flooding or extreme or adverse climatic conditions)	
15.	Is proposed mining site located over or nearfissure / fracture for ground water recharge	= = :
16.	Whether the proposal involves approval or clearance under the following Regulations or Acts, namely: - (s) The Forest (Conservation) Act, 1980; (t) The Wildlife (Protection) Act, 1972; (u) The Coastal Regulation Zone Notification, 2011. If yes, details of the same and their status tobe given.	
17.	Forest land involved (hectares)	No forest land involved
18.	Whether there is any litigation pending againstthe project and/or land in which the project is propose to be set up? (m) Name of the Court (n) Case No. Orders or directions of the Court, if any, and its relevance with the proposed project.	No litigation pending against the project and/or land in any court

[&]quot;I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of

the data and information submitted is found to be false or misleading at any stage, the project

will be rejected and clearance give, if any to the project will be revoked at our risk and cost.

Date: __/12/2021

Environment Management Plan For

Bawangaon-B Sand Ghat, Saoner Taluka, Nagpur District, State Maharasthra

Name of Sand Ghat	Tehsil	Name of river	Nearest Gut No.	Area in ha	Area in cum LxBxD (m3)	Available Sand in Brass
Bawangaon- B	Saoner	Kanhan	203,204&,208	2.70	450X60X0.60	5724

Project Proponent District Mining Officer, Collector Office, Nagpur

Environment Consultant Open Arch Design and Enviro Solutions LLP



NABET/EIA/2124/IA0081

openarchdesign@gmail.com

Contact no.:9004778386

December 2021

ENVIRONMENT MANAGEMENT PLAN

Name of Sand Ghat : Bawangaon B Sand Quarry (203,204,208)

Taluka : Saoner

District : Nagpur (Maharashtra)

1. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of 2.70 Ha on Bawangaon adjoining Ghut. No. 203,204,208, Tehsil: Saoner, District: Nagpur (Maharashtra). It has been proposed to collect approximately 5724 Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts on various features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 5724 Brass per annum.

2. PURPOSE OF EMP

The purpose of an EMP is to

- Assists project proponent in the preparation of an effective and user friendly activity chart for environment management.
- ➤ Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- ➤ Ensure that environment management details is captured and documented at allstages of a project.

S No	Particulars	Impact	Mitigations Measures	Management Plan	Budget
1.	Air	1. Dust generation dueto	1. 0.80 KLD water will be use for	<u>Unpaved Roads</u>	Rs 52,000/- Water
	Environment	transportation	regular water spraying of 1.10	Water sprinkling will be done for dust	sprinkling
		material by 1 no of	km distance of road.	suppression for 1.10 km distance from mine	
		tractor trolley perday.	Regularly road leveling and	site.	Rs 33000/-
			maintenance will be done.	To maintain the uniform speed of the	tarpaulin
			Loading material will be covered	trucks/tippers. Leveling will be done.	Da 20000/ :-
			with tarpaulin and overloading	Paved Roads	Rs 30000/- is
		2. In mining activities,	will be avoided.	The roads will be maintained regularly.	proposed for baseline
				Limited speed will be adopted by transport	data for one time.
		gaseous emissions is	2. PUC certified vehicles will be		
		from the engines of	used for transportation and run		
		transport vehicles.	under limited speed. Regular	1	
		transport venicles.	maintenance will be done of		
			vehicles.	The vehicles will be kept at good condition	
				by regular servicing and maintenance.	
				PUC certified vehicles will be used.	
				Over loading will be avoided.	
				Air monitoring will be done to check the	
				criteria of air pollutants.	

Conclusion:

In this proposed mining project the suspended particulates from unpaved road and emission from transportation vehicle's engine are the source air pollution. The proposed mining operations are not anticipated to raise the concentration of the pollutants beyond prescribed limits. However, the measures are suggested to mitigate any harmful impacts of pollutants like planning transportation routes of mined material so as to reach the nearest paved roads by shortest route and avoid over speed and over loading.

2.	Noise	1 no of tractor trolleyand	Noise generated by the transport	Vehicle will be maintained in good condition	Rs 25000/- is
	Environment	a tractor for water	vehicles will be intermittent and for	to avoid unnecessary noise. Road leveling will	proposed for baseline
		sprinkling will be source	very short time, it will not cause	be done time to time.	data for one time
		of noise pollution. The	much adverse impact. Vehicles will		
		impact of noise pollution	be maintained to avoid		
		will be for very short	unnecessary noise.		
		time. No machinery will	Periodical monitoring of noise will		
		be use for mining	be done to adopt corrective actions		
		operation.	wherever needed.		

Conclusions:

In conclusion, the main source of noise for project will be transportation. Measures are suggested to minimize the noise pollution limited speed of vehicles and regular maintenance of vehicles and approach road.

3.	Water	Ground water: Ground	Mining activity will not intersect to	Worker to be advised for use the waste bin	Mobile toilet: Rs
	Environment	water will not be	ground water.	and Mobile toilet.	1,60,000/-
		intersected during	Water requirement of 0.60 KLD for		Waste bin: Rs 750/-
		mining work.	domestic and 0.80 KLD for water		
			sprinkling will be met through		
		Surface water: noimpact	water tanker. Low water demand		
		anticipated for surface	will not be affected to ground		
		water.	water.		
			Mobile Toilet and Waste bins will		
			be provided for domestic waste.		
			Mining activity will be done in dry		
			bed only.		
	<u> </u>				L

Conclusions:

In this mining project in the entire lease period the ground water table will not be intersected hence there will be no impact on the ground water environment and any hazards waste will not be met to surface water. Advised to workers use the dust bin to dispose any domestic solid waste.

4.	Land Environment	Road will be degraded due to transportation. River course erosion due to mined out sand from river.	Regular water sprinkling will be done. Road of 1.10 km length willbe maintained in good condition by using local earth material. Mining activity will be restricted to maximum depth of 0.6 m as per GSDA survey. Miningactivity will not done near the river banks. Mining activity will be donein dry bed only. Monitoring will be done to meet the criteria of parameters as per norms of CPCB/ SPCB.		Rs 25500/- Road maintenance
Sug	nearby land sur Biological	face. No impact anticipated on	3 tractor trips per day will be use	1	Rs 52000/- water
	Environment	biological environment due to proposed mining activity as miningactivity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on near by crops.	for transportation of sand. So anticipated suspended particulates are in negligible. Protective measures like water spraying on unpaved road, leveling of unpaved road and sand covered after loading will be used to prevent.	maintenance will be done to avoid dust generation.	sprinkling



		Di. 1 1 11			
		Pit developed due to			
		mining may be			
		dangerous for animals.			
Con	<u>iclusions:</u>		<u> </u>	<u> </u>	
		icipated on nearby fauna and F	lora due to proposed mining activity. Sug	gested to lease adopt the mitigation measures for du	ist suppression.
6.	Socio-	Negative impact is not	Employment will be given to local	Advise to lease given preference to local	
	Economic	anticipated on socio-	people for unskilled labor.	people.	
	Environment	economic environment.			
		Over all positive impact			
		will be done due to			
		proposed mining activity			
		like employment			
		availability of sand.			
Con	clusion:				
Pre	ference given t	o local people for employr	nent as labor.		
7.	Occupational	Hazards on site are	First aid box to be provided for	First aid and sanitary facility provide to	Total Amount: Rs
	Health &	anticipated like health	initial treatment.	workers.	1,60,000/-
	Safety	issue due to dust,	Temporary shed will be provided.		Rs 2500/- for First
		dehydration, heat	Notice board will be placed at		Aid Box
		expose and rest shed.	mining site, and guard will be		Rs 4000/- Personal
		Accident from spadesand	posted in three shifts to prevent		Protective Equipment
		heavy boulder.	any accident.		Rs 10000/- For
					Temporary shed
					Rs 1,32,750/-
					Mobile Toilet
					Rs 750/- waste bin
					,

Conclusion:

Suggested to provided First aid and sanitary facility to workers.

3. FUND PROVISION FOR EMP

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

S No	Particulars	Amount in
		Rs
1.	Environment Monitoring (Air, Water, Soil and Noise)	30000/-
2.	Water Sprinkling	52000/-
3.	Unpaved/ Haul road maintenance	30000/-
4.	Occupational Health & safety	185500/-
5.	Tarpaulin	31000/-
6.	Plantation (along haul and River Bank road)	16000/-
7.	Security	8000/-
	Total	3,52,500/-

ENVIRONMENT MANAGEMENT PLAN

Name of Sand Ghat : Gosewadi A Sand Quarry (285,286 & 287 (Part))

Taluka : Saoner

District : Nagpur (Maharashtra)

1. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of 4.20 Ha on Gosewadi A adjoining Ghut. No. 285,286 & 287 (Part), Tehsil: Saoner, District: Nagpur (Maharashtra). It has been proposed to collect approximately 7420 Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts onvarious features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 7420 Brass per annum.

2. PURPOSE OF EMP

The purpose of an EMP is to

- Assists project proponent in the preparation of an effective and user friendly activitychart for environment management.
- Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- > Ensure that environment management details is captured and documented at all stages of a project.

3. MATRIX FOR EMP

material by 1 no of tractor trolley per day. Regularly road leveling and maintenance will be done. Loading material will be covered with tarpaulin and overloading will be avoided. 2. In mining activities, the only source of gaseous emissions is from the engines of transport vehicles. 2. PUC certified vehicles will be used for transportation and run under limited speed. Regular maintenance will be done of vehicles. 3. PUC certified vehicles will be used for transportation and run under limited speed. Regular maintenance will be done of vehicles. 4. To maintain the uniform speed trucks/tippers. Leveling will be maintained regular Limited speed will be adopted by transportation and run under limited speed. Regular maintenance will be done of vehicles. The loaded vehicles will be covered trucks/tippers. Leveling will be adopted by transportation and run under limited speed. Regular maintenance will be done of vehicles. The vehicles will be kept at good comby regular servicing and maintenance will be required.	0	o Particulars	Impact	Mitigations Measures	Management Plan	Budget
material by 1 no of tractor trolley per day. Regularly road leveling and maintenance will be done. Loading material will be covered with tarpaulin and overloading will be avoided. 2. In mining activities, the only source of gaseous emissions is from the engines of transport vehicles. 2. PUC certified vehicles will be used for transportation and run under limited speed. Regular maintenance will be done of vehicles. 3. PUC certified vehicles will be used for transportation and run under limited speed. Regular maintenance will be done of vehicles. 4. To maintain the uniform speed trucks/tippers. Leveling will be maintained regular Limited speed will be adopted by transportation and run under limited speed. Regular maintenance will be done of vehicles. The loaded vehicles will be covered trucks/tippers. Leveling will be adopted by transportation and run under limited speed. Regular maintenance will be done of vehicles. The vehicles will be kept at good comby regular servicing and maintenance will be required.		Air	1. Dust generation due to	1. 1.40 KLD water will be use for	<u>Unpaved Roads</u>	Rs 48,000/- Water
tractor trolley per day. Regularly road leveling and maintenance will be done. Loading material will be covered with tarpaulin and overloading will be avoided. 2. In mining activities, the only source of gaseous emissions is from the engines of transport vehicles. PUC certified vehicles will be used for transportation and run under limited speed. Regular maintenance will be done of vehicles. To maintain the uniform speed trucks/tippers. Leveling will be done. Paved Roads The roads will be maintained regular Limited speed will be adopted by transportation and run under limited speed. Regular maintenance will be done of vehicles. The loaded vehicles will be tarpaulin. Transportation vehicles The vehicles will be kept at good control by regular servicing and maintenance		Environment	transportation	regular water spraying of 1.10	Water sprinkling will be done for dust	sprinkling
day. 2. In mining activities, the only source of gaseous emissions is from the engines of transport vehicles. 2. In mining activities, the only source of gaseous emissions is from the engines of transport vehicles. 3. In mining activities, the only source of gaseous emissions is from the engines of transport vehicles. 4. PUC certified vehicles will be used for transportation and run under limited speed. Regular maintenance will be done of vehicles. 5. PUC certified vehicles will be used for transportation and run under limited speed. Regular maintenance will be done of vehicles. 6. The vehicles will be kept at good control by regular servicing and maintenance will be required.			material by 1 no of	km distance of road.	suppression for 1.10 km distance from mine	
Loading material will be covered with tarpaulin and overloading will be avoided. 2. In mining activities, the only source of gaseous emissions is from the engines of transport vehicles. 2. PUC certified vehicles will be used for transportation and run under limited speed. Regular maintenance will be done of vehicles. Loading material will be covered with tarpaulin and overloading will be maintained regular Limited speed will be adopted by transportation and run under limited speed. Regular maintenance will be done of vehicles. The loaded vehicles will be covered to trucks/tippers. Leveling will be done. Paved Roads The roads will be adopted by transportation and run under limited speed. Regular maintenance will be done of vehicles. The vehicles will be kept at good conditions by regular servicing and maintenance.			tractor trolley per	Regularly road leveling and	site.	Rs 31000/-
with tarpaulin and overloading will be avoided. 2. In mining activities, the only source of gaseous emissions is from the engines of transport vehicles. 2. PUC certified vehicles will be used for transportation and run under limited speed. Regular maintenance will be done of vehicles. Paved Roads The roads will be maintained regular Limited speed will be adopted by transportation and run transportation and run under limited speed. Regular maintenance will be done of vehicles. Transportation vehicles The vehicles will be kept at good control by regular servicing and maintenance.			day.	maintenance will be done.	To maintain the uniform speed of the	tarpaulin
will be avoided. 2. In mining activities, the only source of gaseous emissions is from the engines of transport vehicles. 2. PUC certified vehicles will be used for transportation and run under limited speed. Regular maintenance will be done of vehicles. The roads will be maintained regular Limited speed will be adopted by transportation and run under limited speed. Regular maintenance will be done of vehicles. The roads will be maintained regular tarpaulin. Transportation vehicles The roads will be maintained regular vehicles. The vehicles will be adopted by transportation and run under limited speed. Regular tarpaulin. Transportation vehicles The roads will be maintained regular vehicles. The vehicles will be adopted by transportation and run tarpaulin. Transportation vehicles The vehicles will be adopted by transportation and run tarpaulin.				Loading material will be covered	trucks/tippers. Leveling will be done.	Rs 30000/- is
2. In mining activities, the only source of gaseous emissions is from the engines of transport vehicles. 2. PUC certified vehicles will be used for transportation and run under limited speed. Regular maintenance will be done of vehicles. 2. PUC certified vehicles will be used for transportation and run under limited speed. Regular maintenance will be done of vehicles. 3. Limited speed will be adopted by transportation. The loaded vehicles will be tarpaulin. 4. Transportation vehicles 5. The vehicles will be kept at good conduction by regular servicing and maintenance.				with tarpaulin and overloading	Paved Roads	proposed for baseline
the only source of gaseous emissions is from the engines of transport vehicles. 2. PUC certified vehicles will be used for transportation and run under limited speed. Regular maintenance will be done of vehicles. The loaded vehicles will be tarpaulin. Transportation vehicles The vehicles will be kept at good conduction by regular servicing and maintenance.				will be avoided.	The roads will be maintained regularly.	data for one time.
the only source of gaseous emissions is from the engines of transport vehicles. 2. PUC certified vehicles will be used for transportation and run under limited speed. Regular maintenance will be done of vehicles. The loaded vehicles will be tarpaulin. Transportation vehicles The vehicles will be kept at good conditions by regular servicing and maintenance.			2. In mining activities,		Limited speed will be adopted by transport	
from the engines of transport vehicles. under limited speed. Regular maintenance will be done of vehicles. tarpaulin. Transportation vehicles The vehicles will be kept at good conductive by regular servicing and maintenance			the only source of			
transport vehicles. maintenance will be done of vehicles. maintenance will be done of vehicles. Transportation vehicles The vehicles will be kept at good conduction by regular servicing and maintenance			gaseous emissions is	-	The loaded vehicles will be covered with	
transport vehicles. maintenance will be done of vehicles. maintenance will be done of vehicles. The vehicles will be kept at good conduction by regular servicing and maintenance.			from the engines of		tarpaulin.	
vehicles. The vehicles will be kept at good cond by regular servicing and maintenance			-	maintenance will be done of	<u>Transportation vehicles</u>	
			1	vehicles.	The vehicles will be kept at good condition	
DIC cortified vehicles will be used					by regular servicing and maintenance.	
1 oc cei tilleu vellicles will be useu.					PUC certified vehicles will be used.	
Over loading will be avoided.						
					Air monitoring will be done to check the	
criteria of air pollutants.					criteria of air pollutants.	

Conclusion:

In this proposed mining project the suspended particulates from unpaved road and emission from transportation vehicle's engine are the source air pollution. The proposed mining operations are not anticipated to raise the concentration of the pollutants beyond prescribed limits. However, the measures are suggested to mitigate any harmful impacts of pollutants like planning transportation routes of mined material so as to reach the nearest paved roads by shortest route and avoid over speed and over loading.

2.	Noise	1 no of tractor trolleyand	Noise generated by the transport	Vehicle will be maintained in good condition	Rs 25000/- is	
	Environment	a tractor for water	vehicles will be intermittent and	to avoid unnecessary noise. Road leveling	proposed for baseline	
		sprinkling will be source	for very short time, it will notcause	will be done time to time.	data for one time	
		of noise pollution. The	much adverse impact. Vehicles will			
		impact of noise pollution	be maintained to avoid			
		will be for very short	unnecessary noise.			
		time. No machinery will	Periodical monitoring of noise will			
		be use for mining	be done to adopt corrective actions			
		operation.	wherever needed.			
Con	Conclusions:					

In conclusion, the main source of noise for project will be transportation. Measures are suggested to minimize the noise pollution limited speed of vehicles and regular maintenance of vehicles and approach road.

3.	Water	Ground water: Ground	Mining activity will not intersect to	Worker to be advised for use the waste bin	Mobile toilet: Rs
	Environment	water will not be	ground water.	and Mobile toilet.	1,40,000/-
		intersected during	Water requirement of 0.80 KLD for		Waste bin: Rs 750/-
		mining work.	domestic and 1.40 KLD for water		
			sprinkling will be met through		
		Surface water: no	water tanker. Low water demand		
		impact anticipated for	will not be affected to ground		
		surface water.	water.		
			Mobile Toilet and Waste bins will		
			be provided for domestic waste.		
			Mining activity will be done in dry		
			bed only.		
_	└ , .				

Conclusions:

In this mining project in the entire lease period the ground water table will not be intersected hence there will be no impact on the ground water environment and any hazards waste will not be met to surface water. Advised to workers use the dust bin to dispose any domestic solid waste.

4.	Land	Road will be degraded	Regular water sprinkling will be	Mining activity will be done as per Rule 23 of	Rs 25500/- Road
	Environment	due to transportation.	done. Road of 1.10 km length will	MMME (D&R) Rule 2013 and Maharashtra	maintenance
		River course erosion due	be maintained in good condition	Sand policy 03.09.2019.	
		to mined out sand from	by using local earth material.	Mining activity will be done up to 0.5 m	
		river.	Mining activity will be restricted to	depth and dry bed only. Mining will not be	
			maximum depth of 0.5 m as per	done near river banks.	
			GSDA survey. Miningactivity will not		
			done near the river banks. Mining		
			activity will be donein dry bed only.		
			Monitoring will be done to meet		
			the criteria of parameters as per		
			norms of CPCB/ SPCB.		
Con	clusions:				
Sug	gested to worke	ers working with prescribed	manner only use the dustbin and mo	bile toilet to prevent disposal of solid waste and	waste water in theriver
and	nearby land sui	rface.			
5.	Biological	No impact anticipated on	3 tractor trips per day will be use	Water spraying on haul road and time to	Rs 48000/- water
	Environment	biological environment	for transportation of sand. So	time maintenance will be done to avoid dust	sprinkling
		due to proposed mining	anticipated suspended	generation.	
		activity as mining	particulates are in negligible.	_	
		activity will be carried	Protective measures like water		
		out in running dry river	spraying on unpaved road, leveling		
		bed.	of unpaved road and sand covered		
			-		
		Suspended particulates	after loading will be used to		
		Suspended particulates are only source, which	after loading will be used to prevent.		
			g .		

Gosewadi A Sand Ghat over an extent of 4.20 ha. At Gut No: 285,286 & 287 (Part)

Environmental Management Plan

Village Gosewadi A, Tehsil- Saoner, District- Nagpur, Maharashtra

		Pit developed due to			
		mining may be			
		dangerous for animals.			
	<u>clusions:</u>				
Not	any impact is anti	cipated on nearby fauna and F	lora due to proposed mining activity. Sug	gested to lease adopt the mitigation measures for du	st suppression.
6.	Socio-	Negative impact is not	Employment will be given to local	Advise to lease given preference to local	
	Economic	anticipated on socio-	people for unskilled labor.	people.	
	Environment	economic environment.			
		Over all positive impact			
		will be done due to			
		proposed mining activity			
		like employment			
		availability of sand.			
Con	clusion:				
Pre	ference given t	o local people for employi	nent as labor.		
7.	Occupational	Hazards on site are	First aid box to be provided for	First aid and sanitary facility provide to	Total Amount: Rs
	Health &	anticipated like health	initial treatment.	workers.	1,40,000/-
	Safety	issue due to dust,	Temporary shed will be provided.		Rs 2500/- for First
	J	dehydration, heat	Notice board will be placed at		Aid Box
		expose and rest shed.	mining site, and guard will be		Rs 4000/- Personal
		Accident from spadesand	posted in three shifts to prevent		Protective Equipment
		heavy boulder.	any accident.		Rs 10000/- For
		•	-		Temporary shed
					Rs 1,32,750/-
					Mobile Toilet
					Rs 750/- waste bin
Con	clusion:				
		ed First aid and sanitary fac	cility to workers.		
	J = 1 = 1 = F = 0 V 1 e		·y		

4. FUND PROVISION FOR EMP

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

S No	Particulars	Amount in Rs
1.	Environment Monitoring (Air, Water, Soil and Noise)	30000/-
2.	Water Sprinkling	48000/-
3.	Unpaved/ Haul road maintenance	30000/-
4.	Occupational Health & safety	165500/-
5.	Tarpaulin	31000/-
6.	Plantation (along haul and River Bank road)	16000/-
7.	Security	8000/-
	Total	3,28,500/-



APPENDIX VIII

(See paragraph - 6) FORM 1M

Application for Mining of Minor Minerals under Category 'B2' for less than and Equal to Five Hectare

(I) Ba	sic Information					
S. No.	Item	:	Details			
1.	Name of the Mining Lease Site	:	Gosewadi A Bed S	Sand	Ghat	
2.	Location/Site (GPS Co-ordinate)	:	The proposed sand quarry area is situated in Gosewadi villag			
			Tehsil- Saoner, District- Nagpur (Maharashtra). The project			arashtra).The project
				he Sı	ırvey of India Topo	sheet No550/3.
			Boundary		Latitude	Longitude
			Point		24004150 051134	E000 4144 0 4117
			1		21°21'52.95"N	79°04'41.04"E
			2		21°21'50.52"N	79°04'43.92"E
			3		21°21'39.17"N	79°04'34.80"E
			5		21°21'41.82"N 21°21'46.69"N	79°04'32.30"E 79°04'37.28"E
3.	Sign of the Mining Longe Avec		4.20 Hectare		21 21 40.09 N	79 U4 37.26 E
3. 4.	Size of the Mining Lease Area Capacity of the Mining Lease	:	7420 Brass/Annı	ım		
5.	Period of the Mining Lease	:	One year	1111		
6.	Expected Cost of the Project	:	1.61/- (in crores)			
7.	Contact Information	+	: District Mining Officer (DMO),			
,.			Nagpur Collectorate,			
			Nagpur (Maharashtra)			
		Email: Dmonagpur 1@gmail.com				
(II) E	nvironmental Sensitivity	1 1				
S. No.	Areas		Name/Iden	tity	Distance in	1
					Kilometer,	
1.	Distance of project site from near	rest	Kanhan River Br	idge		3
	rail or road bridge over				towards NW from	Project Site.
	concerned River, Rivulet, Nallah e					
2.	Distance from infrastruct	ura	l Pipla Halt Railw	vay	At a distance of ~	
	Facilities Railway line	Station		towards WSW from	<u>, </u>	
	National Highway		NH- 47		At a distance of ~	
					direction from pro	
	State Highway/Highway		SH-249		At a distance of ~	
	Main Pint in Paral				direction from pro	ject site.
	Major District Road		-		-	
	Any Other Road		-		- 11 - 1	0.5517
	Electric transmission line pole or to	wei	Gosewadi villa	ge		~ 0.57Km direction
	Canal an abank day a say				from the project si	te.
	Canal or check dam or reservoirs or		No			
	lake or ponds				-	

	In-take for drinking water pump house	Gosewadi village	At a distance of ~ 0.57Km 4Km direction from the project site.
	Intake for Irrigation canal pumps	Gosewadi village	At a distance of ~0.57Km Km direction from the project site.
3.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value.	No	No such area is located within the studyarea.
4.	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests.	Yes	The quarry area is itself part of water body i.e. River Kanhan, there are number of tributes of River Kanhan is also available in Study Area.
5.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	
6.	Inland, coastal, underground waters	Marine	Or
7.	State, National boundaries	No	None
8.	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas.	No	-
9.	Defense installations	No	-
	Densely populated or built-up area	Gosewadi village	At a distance of ~ 0.57Km direction
10.	distance from nearest human habitation	8	from the project site.
11.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - Zilla Parishad Primary School, 0.75 km in SW of ML) Hospital:-Primary Health Centre, Dahegaon at 0.40 Km, towards NE of ML from query area.
12.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Kanhan.
13.	Densely populated or built-up area distance from nearest human habitation	Gosewadi village	At a distance of $\sim 0.57 \text{Km}$ direction from the project site.
14.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - Zilla Parishad Primary School, 0.75 km in SW of ML) Hospital:-Primary Health Centre, Dahegaon at 0.40 Km, towards NE of ML from query area.
15.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries,	No	Quarry mine area is falls in river Kanhan.

	tourism, minerals)		
16.	Densely populated or built-up area	Gosewadi village	At a distance of ~ 0.57Km direction
	distance from nearest human habitation		from the project site.
17.	Areas occupied by sensitive man-		School: - Zilla Parishad Primary School,
	made land uses (hospitals,	Yes	0.75 km in SW of ML)
	schools, places of worship,		Hospital:-Primary Health Centre, Dahegaon
	community facilities)		at 0.40 Km, towards NE of ML from query area.
18.	Areas containing important, high		Quarry mine area is falls in river
	quality or scarce resources (ground		Kanhan.
	water resources, surface resources,	No	
	forestry, agriculture, fisheries,		
	tourism, minerals)		

"I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.



APPENDIX VIII

(See paragraph - 6) FORM 1M

Application for Mining of Minor Minerals under Category 'B2' for less than and Equal to Five Hectare

	(I) Basic Information						
S. No.	o. Item : Details						
1.	Name of the Mining Lease Site	:		Ghatrohna Bed Sand	Ghat		
2.	Location/Site (GPS Co-ordinate)	:	: The proposed sand quarry area is situated		uated in Ghatrohna		
			village, Tehsil-	Parseoni, District- Nagpu	ır (Maharashtra).The		
			project site falls within the Survey of India Toposheet I				
			550/3 & 550/8.				
			Boundary	Latitude	Longitude		
			Point				
			1	21°16'34.01"N	79°10'18.25"E		
			2	21°16'25.41"N	79°10'17.72"E		
			3	21°16'20.59"N	79°10'17.66"E		
			4	21°16'17.07"N	79°10'18.22"E		
			5	21°16'17.47"N	79°10'20.20"E		
			6	21°16'20.83"N	79°10'19.73"E		
			7	21°16'25.44"N	79°10'19.80"E		
_			8	21°16'33.85"N	79°10'20.24"E		
3.	Size of the Mining Lease Area	:		3.0 Hectare			
4.	Capacity of the Mining Lease	:		4240 Brass/Annur	n		
5.	Period of the Mining Lease	:		One yea			
6.	Expected Cost of the Project(In Crores)	:		Rs. ~ 1.06/-			
7.	Contact Information	:	District Mini	ng Officer (DMO),			
			Nagpur Coll	ectorate,			
			Nagpur (Mah	arashtra)			
			Email: <u>Dmona</u>	gpur1@gmail.com	L@gmail.com		
	(II) I	Envi	ronmental S	ensitivity			
S. No.	Areas		Name/Ide		istance in		
			_		neter/Details		
1.	Distance of project site from near				of ~ 118 meter away		
	rail or road bridge over		near Bina		owards		
-	concerned River, Rivulet, Nallah		W .1 D		m Project Site.		
2.	Distance from infrastruct	ural			of ~ 7.15 Km away		
	Facilities Railway line		Station		from Project Site.		
	National Highway		NH- 247		of $\sim 3.28 \mathrm{Km}$ in SW		
	Chaha High - Attal				rom project site.		
	State Highway/Highway		SH-20	67 l	of ~ 3.79 Km in W rom project site.		
	Major District Road		-		-		

	Any Other Road	-	-
	Electric transmission line pole or tower	Ghatrohna village	At a distance of ~ 0.33 direction from the project site.
	Canal or check dam or reservoirs or lake or ponds	Kanhan Mahadev Dam	At a distance of ~ 2.37 direction from the project site.
	In-take for drinking water pump house	Ghatrohna village	At a distance of ~ 0.33 direction from the project site.
	Intake for Irrigation canal pumps	Ghatrohna village	At a distance of ~ 0.3 3 direction from the project site.
3.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value.	No	No such area is located within the studyarea.
4.	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests.	Yes	The quarry area is itself part of water body i.e. River Pench, there are number of tributes of River Pench is also available in Study Area.
5.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging,	No	
	resting, over wintering, migration		
6.	Inland, coastal,	Marine	Or
6. 7.	Inland, coastal, underground waters	Marine No	Or None
	Inland, coastal,		
7.	Inland, coastal, underground waters State, National boundaries Routes or facilities used by the public for access to recreation or	No	None At a distance of ~0.40 Km towards
7.	Inland, coastal, underground waters State, National boundaries Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas.	No Bina Sangam	None At a distance of ~0.40 Km towards WS from the Project site. Cantonment Board Office Kamptee, At a distance of ~5.30 Km towards WNW
7. 8. 9.	Inland, coastal, underground waters State, National boundaries Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas. Defense installations Densely populated or built-up area	No Bina Sangam Yes	None At a distance of ~0.40 Km towards WS from the Project site. Cantonment Board Office Kamptee, At a distance of ~5.30 Km towards WNW from the Project site. At a distance of ~ 0.33 direction
7. 8. 9.	Inland, coastal, underground waters State, National boundaries Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas. Defense installations Densely populated or built-up area distance from nearest human habitation Areas occupied by sensitive manmade land uses (hospitals, schools, places of worship,	No Bina Sangam Yes Ghatrohna village Yes	None At a distance of ~0.40 Km towards WS from the Project site. Cantonment Board Office Kamptee, At a distance of ~5.30 Km towards WNW from the Project site. At a distance of ~ 0.33 direction from the project site. School: - Army Public school, 6.40 km in SE of ML) Hospital:- Primary health centre, Chicholi at 5.79 Km, towards WestofMLfromquery

	distance from nearest human habitation		from the project site.
14.	Areas occupied by sensitive man-		School: - Army Public school, 6.40 km in SE
	made land uses (hospitals,	Yes	of ML)
	schools, places of worship,		Hospital:-Primary health centre, Chicholi at
	community facilities)		5.79 Km, towards West of ML from query
			area.
15.	Areas containing important, high		Quarry mine area is falls in river Pench.
	quality or scarce resources (ground		
	water resources, surface resources,	No	
	forestry, agriculture, fisheries,		
	tourism, minerals)		
16.	Densely populated or built-up area	Ghatrohna village	At a distance of ~ 0.33 direction
	distance from nearest human habitation		from the project site.
17.	Areas occupied by sensitive man-		School: - Army Public school, 6.40 km in SE
	made land uses (hospitals,	Yes	of ML)
	schools, places of worship,		Hospital:-Primary health centre, Chicholi at
	community facilities)		5.79 Km, towards West of ML from query
			area.
18.	Areas containing important, high		Quarry mine area is falls in river Pench.
	quality or scarce resources (ground		
	water resources, surface resources,	No	
	forestry, agriculture, fisheries,		
	tourism, minerals)		

[&]quot;I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.

ENVIRONMENT MANAGEMENT PLAN

Name of Sand Ghat : Ghatrohna Sand Quarry (Ghut. No. 53 (part), 52, 46, 45 (part))

Taluka : Parseoni

District : Nagpur (Maharashtra)

1. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of 3.0 Ha on Ghatrohna adjoining n Ghut. No. 53 (part), 52, 46, 45 (part), Village: Ghatrohna, Tehsil: Parseoni, District: Nagpur (Maharashtra). It has been proposed to collect approximately 4240 Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts on various features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 4240 Brass per annum.

2. PURPOSE OF EMP

The purpose of an EMP is to

- Assists project proponent in the preparation of an effective and user friendly activity chart for environment management.
- Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- ➤ Ensure that environment management details is captured and documented at all stages of a project.

3. MATRIX FOR EMP

S No	Particulars	Impact	Mitigations Measures	Management Plan	Budget
1.	Air	1. Dust generation dueto	1. 0.85 KLD water will be use for	<u>Unpaved Roads</u>	Rs 60,000/- Water
	Environment	transportation	regular water spraying of 1.10	Water sprinkling will be done for dust	sprinkling
		material by 1 no of	km distance of road.	suppression for 1.10 km distance from mine	
		tractor trolley per	Regularly road leveling and	site.	Rs 10000/-
		day.	maintenance will be done.	To maintain the uniform speed of the	tarpaulin
			Loading material will be covered	trucks/tippers. Leveling will be done.	Rs 40000/- is
			with tarpaulin and overloading	Paved Roads	•
			will be avoided.	The roads will be maintained regularly.	proposed for baseline data for one time.
		2. In mining activities,		Limited speed will be adopted by transport	uata for one time.
		the only source of	2. PUC certified vehicles will be	vehicles.	
		gaseous emissions is	used for transportation and run	The loaded vehicles will be covered with	
		from the engines of	under limited speed. Regular	tarpaulin.	
		transport vehicles.	maintenance will be done of	Transportation vehicles	
		transport venicies.	vehicles.	The vehicles will be kept at good condition	
				by regular servicing and maintenance.	
				PUC certified vehicles will be used.	
				Over loading will be avoided.	
				Air monitoring will be done to check the	
				criteria of air pollutants.	
			Conclusion		

Conclusion:

In this proposed mining project the suspended particulates from unpaved road and emission from transportation vehicle's engine are the source air pollution. The proposed mining operations are not anticipated to raise the concentration of the pollutants beyond prescribed limits. However, the measures are suggested to mitigate any harmful impacts of pollutants like planning transportation routes of mined material so as to reach the nearest paved roads by shortest route and avoid over speed and over loading.

		1 no of tractor trolleyand	Noise generated by the transport	Vehicle will be maintained in good condition	Rs 25000/- is
	Environment	a tractor for water	vehicles will be intermittent and	to avoid unnecessary noise. Road leveling	proposed for baseline
		sprinkling will be source	for very short time, it will notcause	y short time, it will notcause will be done time to time.	
		of noise pollution. The	much adverse impact. Vehicles will		
		impact of noise pollution	be maintained to avoid		
		will be for very short	unnecessary noise.		
		time. No machinery will	Periodical monitoring of noise will		
		be use for mining	be done to adopt corrective actions		
		operation.	wherever needed.		
			Conclusions	3	
In	conclusion, the	main source of noise for proj	ect will be transportation. Measures ar	e suggested to minimize the noise pollution limi	ted speed of vehiclesand
		. ,	regular maintenance of vehicles		•
3.	Water	Ground water: Ground	Mining activity will not intersect to	Worker to be advised for use the waste bin	Mobile toilet: Rs
	Environment	water will not be	ground water.	and Mobile toilet.	2,00,000/-
		intersected during	Water requirement of 0.58 KLD for		, , ,
		mining work.	domestic and 0.85 KLD for water		
		_	sprinkling will be met through		
			091111111111111111111111111111111111111		
		Surface water: no	water tanker. Low water demand		
		Surface water: no impact anticipated for	water tanker. Low water demand		
		impact anticipated for	water tanker. Low water demand will not be affected to ground		
		impact anticipated for	water tanker. Low water demand will not be affected to ground water.		
		impact anticipated for	water tanker. Low water demand will not be affected to ground water. Mobile Toilet and Waste bins will		
		impact anticipated for	water tanker. Low water demand will not be affected to ground water. Mobile Toilet and Waste bins will be provided for domestic waste.		

Conclusions:

In this mining project in the entire lease period the ground water table will not be intersected hence there will be no impact on the ground water environment and any hazards waste will not be met to surface water. Advised to workers use the dust bin to dispose any domestic solid waste.

4.	Land	Road will be degraded	Regular water sprinkling will be	Mining activity will be done as per Rule 23 of	Rs 25000/- Road
	Environment	due to transportation.	done. Road of 1.10 km length will	MMME (D&R) Rule 2013 and Maharashtra	maintenance
		River course erosion due	be maintained in good condition	Sand policy 03.09.2019.	
ĺ		to mined out sand from	by using local earth material.	Mining activity will be done up to 0.40 m	
ĺ		river.	Mining activity will be restricted to	depth and dry bed only. Mining will not be	
			maximum depth of 0.40 m as per	done near river banks.	
			GSDA survey. Miningactivity will not		
ĺ			done near the riverbanks. Mining		
			activity will be donein dry bed only.		
ĺ			Monitoring will be done to meet		
ĺ			the criteria of parameters as per		
ĺ			norms of CPCB/ SPCB.		
1					
1					
			Conclusions	<u> </u> <u> </u>	
Su	ggested to work	ers working with prescribe	Conclusions d manner only use the dustbin and mo		d waste water in theriver
Su	ggested to work	ers working with prescribed		obile toilet to prevent disposal of solid waste and	d waste water in theriver
Su 5.	ggested to work	ers working with prescribed	d manner only use the dustbin and mo	obile toilet to prevent disposal of solid waste and	d waste water in theriver Rs 50000/- water
			d manner only use the dustbin and mo and nearby land s	obile toilet to prevent disposal of solid waste and urface.	
	Biological	No impact anticipated on	d manner only use the dustbin and mo and nearby land s 3 tractor trips per day will be use	obile toilet to prevent disposal of solid waste and urface. Water spraying on haul road and time to	Rs 50000/- water
	Biological	No impact anticipated on biological environment	d manner only use the dustbin and mo and nearby land s 3 tractor trips per day will be use for transportation of sand. So	obile toilet to prevent disposal of solid waste and urface. Water spraying on haul road and time to time maintenance will be done to avoid dust	Rs 50000/- water
	Biological	No impact anticipated on biological environment due to proposed mining	d manner only use the dustbin and mo and nearby land s 3 tractor trips per day will be use for transportation of sand. So anticipated suspended	obile toilet to prevent disposal of solid waste and urface. Water spraying on haul road and time to time maintenance will be done to avoid dust	Rs 50000/- water
	Biological	No impact anticipated on biological environment due to proposed mining activity as mining	d manner only use the dustbin and mo and nearby land s 3 tractor trips per day will be use for transportation of sand. So anticipated suspended particulates are in negligible. Protective measures like water	obile toilet to prevent disposal of solid waste and urface. Water spraying on haul road and time to time maintenance will be done to avoid dust	Rs 50000/- water
	Biological	No impact anticipated on biological environment due to proposed mining activity as mining activity will be carried	d manner only use the dustbin and mo and nearby land s 3 tractor trips per day will be use for transportation of sand. So anticipated suspended particulates are in negligible.	obile toilet to prevent disposal of solid waste and urface. Water spraying on haul road and time to time maintenance will be done to avoid dust	Rs 50000/- water
	Biological	No impact anticipated on biological environment due to proposed mining activity as mining activity will be carried out in running dry river	d manner only use the dustbin and monary land s 3 tractor trips per day will be use for transportation of sand. So anticipated suspended particulates are in negligible. Protective measures like water spraying on unpaved road, leveling	obile toilet to prevent disposal of solid waste and urface. Water spraying on haul road and time to time maintenance will be done to avoid dust	Rs 50000/- water
	Biological	No impact anticipated on biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed.	and nearby land s 3 tractor trips per day will be use for transportation of sand. So anticipated suspended particulates are in negligible. Protective measures like water spraying on unpaved road, leveling of unpaved road and sandcovered	obile toilet to prevent disposal of solid waste and urface. Water spraying on haul road and time to time maintenance will be done to avoid dust	Rs 50000/- water
	Biological	No impact anticipated on biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates	and nearby land so and nearby land so and nearby land so are transportation of sand. So anticipated suspended particulates are in negligible. Protective measures like water spraying on unpaved road, leveling of unpaved road and sandcovered after loading will be usedto	obile toilet to prevent disposal of solid waste and urface. Water spraying on haul road and time to time maintenance will be done to avoid dust	Rs 50000/- water

					1
		Pit developed due to			
		mining may be			
		dangerous for animals.			
			Conclusions	<u>8:</u>	
	Not any impact	t is anticipated on nearby fauna	a and Flora due to proposed mining activi	ty. Suggested to lease adopt the mitigation measures	s for dust suppression.
6.	Socio- Economic Environment	Negative impact is not anticipated on socio-economic environment. Over all positive impact will be done due to proposed mining activity like employment, availability of sand.	Employment will be given to local people for unskilled labor.	Advise to lease given preference to local people.	
			Conclusion:		
		Preference	given to local people for employme	ent as labor.	
7.	Occupational Health & Safety	Hazards on site are anticipated like health issue due to dust, dehydration, heat expose and rest shed. Accident from spadesand heavy boulder.	First aid box to be provided for initial treatment. Temporary shed will be provided. Notice board will be placed at mining site, and guard will be posted in three shifts to prevent any accident.	First aid and sanitary facility provide to workers.	Total Amount: Rs 200000/- Rs 5000/- for First Aid Box Rs 5000/- Personal Protective Equipment Rs 10000/- For Temporary shed Rs 1,786,00/- Mobile Toilet Rs 1400/- waste bin
	ı		Conclusion:		
		Suggested to	provided First aid and sanitary facilit	y to workers.	

S No	Particulars	Amount in Rs
1.	Environment Monitoring (Air, Water, Soil and	30000/-
	Noise)	
2.	Water Sprinkling	60000/-
3.	Unpaved/ Haul road maintenance	40000/-
4.	Occupational Health & safety	228000/-
5.	Tarpaulin	33000/-
6.	Plantation (along haul and River Bank road)	20100/-
7.	Security	8000/-
	Total	4,19,100/-



(See paragraph - 6) FORM 1M

Application for Mining of Minor Minerals under Category 'B2' for less than and Equal to Five Hectare

(I) Ba	sic Information					
S. No.	Item	:	Details			
1.	Name of the Mining Lease Site	:	Singardip Bed Sand Ghat			
2.	Location/Site (GPS Co-ordinate)	:	The proposed sar	nd qu	arry area is situate	d in Singardip village
			Tehsil- Parseoni,	Dist	rict- Nagpur (Maha	arashtra).The projec
			site falls within	the S	Survey of India Top	oosheet No. 550/3 8
			550/8.			
			Boundary Latitude Longitude			
			Point			
			1	2	21°11'41.08"N	79°17'21.60"E
			2	4	21°11'36.09"N	79°17'22.70"E
			3	2	21°11'29.14"N	79°17'6.89"E
			4	2	21°11'33.31"N	79°17'6.20"E
			5	2	21°11'32.65"N	79°17'9.92"E
			6	2	21°11'33.49"N	79°17'13.17"E
			7	2	21°11'35.68"N	79°17'15.93"E
			8	2	21°11'39.32"N	79°17'19.39"E
			9	,	21°11'39.00"N	79°17'20.26"E
3.	Size of the Mining Lease Area	:	4.40 Hectare			
4.	Capacity of the Mining Lease	:	4664 Brass/Ann	um		
5.	Period of the Mining Lease	:	One year			
6.	Expected Cost of the Project		0.97/- (in crores)			
7.	Contact Information		District Mining O		· (DMO),	
			Nagpur Collector			
			Nagpur (Maharas	_		
			Email: <u>Dmonagpu</u>	r1@g	gmail.com	
	nvironmental Sensitivity		T =	_ 1		
S. No.	Areas		Name/Iden	tity	Distance in	
	D:		II I D' D	. 1	Kilometer	
1.	Distance of project site from near		Kannan River Br	age	At a distance of ~ 2	2.35Km away
	rail or road bridge over				towards	314 -
	concerned River, Rivulet, Nallah		W .1 D .1		NW from Project Site.	
2.		ural	Kamthee Railwa	У	At a distance of ~	•
	Facilities Railway line		Station		towards N from Pr	
	National Highway		NH- 44			1.46 Km in W direction
					from project site.	
	State Highway/Highway		SH-266		At a distance of ~	
			511 200		direction from pro	ject site.
	Major District Road		-		-	
	Any Other Road		-		-	

	Electric transmission line pole or tower	Singardip village	At a distance of $\sim 0.30 \text{Km}$ direction from the project site.
	Canal or check dam or reservoirs or lake or ponds	No	-
	In-take for drinking water pump house	Singardip village	At a distance of $\sim 0.30\mathrm{Km}$ direction from the project site.
	Intake for Irrigation canal pumps	Singardip village	At a distance of \sim 0.30 Km direction from the project site.
3.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value.	No	No such area is located within the studyarea.
4.	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests.	Yes	The quarry area is itself part of water body i.e. River Kanhan, there are number of tributes of River Kanhan is also available in Study Area.
5.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	
6.	Inland, coastal, underground waters	Marine	Or
7.	State, National boundaries	No	None
8.	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas.	No	-
9.	Defense installations	Yes	Cantonment Board Office Kamptee, At a distance of ~10.50 Km towards SE from the Project site.
10.	Densely populated or built-up area distance from nearest human habitation	Singardip village	At a distance of $\sim 0.30 \text{Km}$ direction from the project site.
11.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - Pandit jawaharlal nehru vidyalaya kanhan, 6.31 km in SE of ML) Hospital:-Primary health centre, Kanhan at 6.48 Km, towards NWofML from query area.
12.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Kanhan.
13.	Densely populated or built-up area distance from nearest human habitation	Singardip village	At a distance of ~ 0.30 Km direction from the project site.
14.	Areas occupied by sensitive man- made land uses (hospitals,	Yes	School: - Pandit jawaharlal Nehru vidyalaya kanhan, 6.31 km in SE of ML)

	schools, places of worship, community facilities)		Hospital:- Primary health centre, Kanhan at 6.48 Km, towards NWofML from query area.
15.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Kanhan.
16.	Densely populated or built-up area distance from nearest human habitation	Singardip village	At a distance of $\sim 0.30 \text{Km}$ direction from the project site.
17.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - Pandit jawaharlal nehru vidyalaya kanhan, 6.31 km in SE of ML) Hospital:-Primary health centre, Kanhan at 6.48 Km, towards NWofML from query area.
18.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Kanhan.

[&]quot;I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.

Name of Sand Ghat : Singardip Sand Quarry (Ghut. No. 80, 81 and 82)

Taluka : Parseoni

District : Nagpur (Maharashtra)

5. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of 4.40 Ha on Singardip adjoining Ghut. No. 80, 81 and 82, Village: Singardip, Tehsil: Parseoni, District: Nagpur (Maharashtra). It has been proposed to collect approximately 4664 Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts on various features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 4664 Brass per annum.

6. PURPOSE OF EMP

The purpose of an EMP is to

- Assists project proponent in the preparation of an effective and user friendly activity chart for environment management.
- > Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- ➤ Ensure that environment management details is captured and documented at all stages of a project.

	7. MATRIA FOR EMP						
S No	Particulars	Impact	Mitigations Measures	Management Plan	Budget		
1.	Air	3. Dust generation dueto	3. 0.90 KLD water will be use for	<u>Unpaved Roads</u>	Rs 50,000/- Water		
	Environment	transportation	regular water spraying of 1.10	Water sprinkling will be done for dust	sprinkling		
		material by 1 no of	km distance of road.	suppression for 1.10 km distance from mine			
		tractor trolley per	Regularly road leveling and	site.	Rs 30000/-		
		day.	maintenance will be done.	To maintain the uniform speed of the	tarpaulin		
			Loading material will be covered	trucks/tippers. Leveling will be done.	Rs 30000/- is		
			with tarpaulin and overloading	Paved Roads	proposed for baseline		
			will be avoided.	The roads will be maintained regularly.	data for one time.		
		4. In mining activities,		Limited speed will be adopted by transport			
		the only source of	4. PUC certified vehicles will be	vehicles.			
		gaseous emissions is	used for transportation and run	The loaded vehicles will be covered with			
		from the engines of	under limited speed. Regular	tarpaulin.			
		transport vehicles.	maintenance will be done of	<u>Transportation vehicles</u>			
		1	vehicles.	The vehicles will be kept at good condition			
				by regular servicing and maintenance.			
				PUC certified vehicles will be used.			
				Over loading will be avoided.			
				Air monitoring will be done to check the			
				criteria of air pollutants.			
	-1						

Conclusion:

2.	Noise	1 no of tractor trolleyand	Noise generated by the transport	Vehicle will be maintained in good condition	Rs 25000/- is
	Environment	a tractor for water	vehicles will be intermittent and	to avoid unnecessary noise. Road leveling	proposed for baseline
		sprinkling will be source	for very short time, it will notcause	will be done time to time.	data for one time.
		of noise pollution. The	much adverse impact. Vehicles will		
		impact of noise pollution	be maintained to avoid		
		will be for very short	unnecessary noise.		
		time. No machinery will	Periodical monitoring of noise will		
		be use for mining	be done to adopt corrective actions		
		operation.	wherever needed.		

In conclusion, the main source of noise for project will be transportation. Measures are suggested to minimize the noise pollution limited speed of vehicles and regular maintenance of vehicles and approach road.

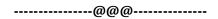
3.	Water	Ground water: Ground	Mining activity will not intersect to	Worker to be advised for use the waste bin	Mobile toilet: Rs
	Environment	water will not be	ground water.	and Mobile toilet.	1,50,000/-
		intersected during	Water requirement of 0.60 KLD for		Waste bin: Rs 750/-
		mining work.	domestic and 0.90 KLD for water		
			sprinkling will be met through		
		Surface water: no	water tanker. Low water demand		
		impact anticipated for	will not be affected to ground		
		surface water.	water.		
			Mobile Toilet and Waste bins will		
			be provided for domestic waste.		
			Mining activity will be done in dry		
			bed only.		
			1	I .	

Conclusions:

4.	Land Environment	Road will be degraded due to transportation. River course erosion due to mined out sand from river.	Regular water sprinkling will be done. Road of 1.10 km length will be maintained in good condition by using local earth material. Mining activity will be restricted to maximum depth of 0.30 m as per GSDA survey. Miningactivity will not done near the river banks. Mining activity will be donein dry bed only. Monitoring will be done to meet the criteria of parameters as per norms of CPCB/ SPCB.		Rs 25500/- Road maintenance
Sug	 nclusions: gested to worke I nearby land sui	- ·	manner only use the dustbin and mol	oile toilet to prevent disposal of solid waste and	waste water in theriver
5.	Biological Environment	No impact anticipated on biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on near by crops.	for transportation of sand. So anticipated suspended particulates are in negligible.	Water spraying on haul road and time to time maintenance will be done to avoid dust generation.	Rs 30000/- water sprinkling

		Pit developed due to			
		mining may be			
		dangerous for animals.			
Con	clusions:				1
Not	any impact is anti	icipated on nearby fauna and F	lora due to proposed mining activity. Sug	gested to lease adopt the mitigation measures for du	ıst suppression.
6.	Socio-	Negative impact is not	Employment will be given to local	Advise to lease given preference to local	
	Economic	anticipated on socio-	people for unskilled labor.	people.	
	Environment	economic environment.			
		Over all positive impact			
		will be done due to			
		proposed mining activity			
		like employment			
		availability of sand.			
Con	clusion:				
Pre	ference given t	o local people for employr	nent as labor.		
7.	Occupational	Hazards on site are	First aid box to be provided for	First aid and sanitary facility provide to	Total Amount: Rs
	Health &	anticipated like health	initial treatment.	workers.	1,50,000/-
	Safety	issue due to dust,	Temporary shed will be provided.		Rs 2500/- for First
		dehydration, heat	Notice board will be placed at		Aid Box
		expose and rest shed.	mining site, and guard will be		Rs 4000/- Personal
		Accident from spadesand	posted in three shifts to prevent		Protective Equipment
		heavy boulder.	any accident.		Rs 10000/- For
					Temporary shed
					Rs 1,32,750/-
					Mobile Toilet
					Rs 750/- waste bin
	<u>clusion:</u>				
Sug	gested to provid	led First aid and sanitary fac	ility to workers.		

S No	Particulars	Amount in Rs			
1.	Environment Monitoring (Air, Water, Soil and Noise)	30000/-			
2.	Water Sprinkling	50000/-			
3.	Unpaved/ Haul road maintenance	30000/-			
4.	Occupational Health & safety	175500/-			
5.	Tarpaulin	30000/-			
6.	Plantation (along haul and River Bank road)	17000/-			
7.	Security	8000/-			
	Total 3,40,500/-				



(See paragraph - 6) FORM 1M

Application for Mining of Minor Minerals under Category 'B2' for less than and Equal to Five Hectare

	(I) Basic Information					
S. No.	Item	:	Details			
1.	Name of the Mining Lease Site	:	Palora Bed Sand Ghat			at
2.	Location/Site (GPS Co-ordinate)	:	The proposed	sand	quarry area is situat	ted in Palora village,
			Tehsil- Parseor	i, Dist	trict- Nagpur (Maha	arashtra).The project
			site falls within	n the S	Survey of India Top	oosheet No. 550/3 &
					550/8.	_
			Boundary		Latitude	Longitude
			Point			
			1		21°22'42.15"N	79°10'19.86"E
			2		21°22'37.91"N	79°10'19.28"E
			3		21°22'34.16"N	79°10'18.54"E
			4		21°22'33.66"N	79°10'21.23"E
			5		21°22'37.48"N	79°10'22.03"E
			6	-	21°22'41.82"N	79°10'22.60"E
3.	Size of the Mining Lease Area	:			2.00 Hectare	
4.	Capacity of the Mining Lease	:			2826 Brass/Annum	1
5.	Period of the Mining Lease	:			One year	
6.	Expected Cost of the Project	:			0.44 (In crores)/-	
7.	Contact Information	:	District Mini	_		
			Nagpur Coll			
			Nagpur (Maharashtra) Email: <u>Dmonagpur 1@gmail.com</u>			
	(II) I	Fnx	vironmental Sensitivity			
S. No.		511 V	Name/Idei			istance in
3.110.	Micas		Name Ide	itity		eter/Details
1.	Distance of project site from nea	rest	Kanhan River F	ridge		of ~2.08Km away
1.	rail or road bridge over			Tuge		from Project Site.
	concerned River, Rivulet, Nallah					
2.	Distance from infrastruc		l Amadi Railwa	av	At a distance o	of ~ 8.27 Km away
	Facilities Railway line		Station	,		rom Project Site.
	National Highway		NH- 44 At a distance of ~ 7.86 Km in E d		7.86 Km in E direction	
						project site.
	State Highway/Highway		277.2	10	•	1.00 Km in S direction
	3,7 8 3		SH-24	19	from p	oroject site.
	Major District Road	Major District Road				-
	Any Other Road		-			-
	Electric transmission line pole or to	owei	Palora villa	ge	At a distance	e of ~ 0.80 Km
					direction from	n the project site.
	Canal or check dam or reservoir	rs or				
	lake or ponds		No			
				0	oen Arch Design and Er	· Cl.: IID

			-
	In-take for drinking water pump house	Palora village	At a distance of ~ 0.80 Km direction from the project site.
	Intake for Irrigation canal pumps	Palora village	At a distance of ~0.80 Km direction from the project site.
3.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value.	No	No such area is located within the studyarea.
4.	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests.	Yes	The quarry area is itself part of water body i.e. River Pench and kanhan, there are number of tributes of River Pench is also available in Study Area.
5.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	
6.	Inland, coastal, underground waters	Marine	or
7.	State, National boundaries	No	None
8.	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas.	No	-
9.	Defense installations	No	-
10.	Densely populated or built-up area distance from nearest human habitation	Palora village	At a distance of ~ 0.80 km direction from the project site.
11.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	Collage: - Anand Collage, Bakhari, Maharashtra, 6.31 km in SSE of ML) Hospital:- Primary health centre, Ghat Khairi at 8.80 Km, towards Nof ML from queryarea.
12.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Pench.
13.	Densely populated or built-up area distance from nearest human habitation	Palora village	At a distance of ~ 0.80 direction from the project site.
14.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	Collage: - Anand Collage, Bakhari, Maharashtra, 6.31 km in SSE of ML) Hospital:-Primary health centre, Ghat Khairi at 8.80 Km, towards Nof ML from query area.
15.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Pench.

16.	Densely populated or built-up area	Palora village	At a distance of ~ 0.80 direction
	distance from nearest human habitation		from the project site.
17.	Areas occupied by sensitive man-		Collage: - Anand Collage, Bakhari,
	made land uses (hospitals,	Yes	Maharashtra, 6.31 km in SSE of ML)
	schools, places of worship,		Hospital:- Primary health centre, Ghat Khairi
	community facilities)		at 8.80 Km, towards Nof ML from query area.
18.	Areas containing important, high		Quarry mine area is falls in river Pench.
	quality or scarce resources (ground		
	water resources, surface resources,	No	
	forestry, agriculture, fisheries,		
	tourism, minerals)		

[&]quot;I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.

Name of Sand Ghat : Palora Sand Quarry (Ghut. No. 43 (Part))

Taluka : Parseoni

District : Nagpur (Maharashtra)

9. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of 2.00 Ha on Palora adjoining Ghut. No. 43 (Part), Village: Palora, Tehsil: Parseoni, District: Nagpur (Maharashtra). It has been proposed to collect approximately 2826 Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts onvarious features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 2826. The purpose of an EMP is to

- Assists project proponent in the preparation of an effective and user friendly activitychart for environment management.
- Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- ➤ Ensure that environment management details is captured and documented at allstages of a project.

S No	Particulars	Impact	Mitigations Measures	Management Plan	Budget
1.	Air Environment	•	 5. 0.55 KLD water will be use for regular water spraying of 1.10 km distance of road. Regularly road leveling and maintenance will be done. Loading material will be covered with tarpaulin and overloading will be avoided. 6. PUC certified vehicles will be used for transportation and run under limited speed. 	Unpaved Roads Water sprinkling will be done for dust suppression for 1.10 km distance from mine site. To maintain the uniform speed of the trucks/tippers. Leveling will be done.	Rs 35,000/- Water sprinkling Rs 15000/- tarpaulin Rs 25000/- is proposed for baseline data for one time.

Conclusion:

2.	Noise	1 no of tractor trolleyand	Noise generated by the transport	Vehicle will be maintained in good condition	Rs 25000/- is
	Environment	a tractor for water	vehicles will be intermittent and	to avoid unnecessary noise. Road leveling	proposed for baseline
		sprinkling will be source	for very short time, it will notcause	will be done time to time.	data for one time.
		of noise pollution. The	much adverse impact. Vehicles will		
		impact of noise pollution	be maintained to avoid		
		will be for very short	unnecessary noise.		
	time. No machinery will Periodical monitoring of		Periodical monitoring of noise will		
	be use for mining be done to adopt corrective action		be done to adopt corrective actions		
		operation.	wherever needed.		

In conclusion, the main source of noise for project will be transportation. Measures are suggested to minimize the noise pollution limited speed of vehicles and regular maintenance of vehicles and approach road.

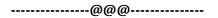
3.	Water	Ground water: Ground	Mining activity will not intersect to	Worker to be advised for use the waste bin	Mobile toilet: Rs
	Environment	water will not be	ground water.	and Mobile toilet.	1,00,000/-
		intersected during	Water requirement of 0.40 KLD for		Waste bin: Rs 750/-
		mining work.	domestic and 0.55 KLD for water		
			sprinkling will be met through		
		Surface water: no	water tanker. Low water demand		
		impact anticipated for	will not be affected to ground		
		surface water.	water.		
			Mobile Toilet and Waste bins will		
			be provided for domestic waste.		
			Mining activity will be done in dry		
			bed only.		
	· ,				

Conclusions:

4.	Land	Road will be degraded	Regular water sprinkling will be	Mining activity will be done as per Rule 23 of	Rs 20750/- Road
1.			MMME (D&R) Rule 2013 and Maharashtra	maintenance	
			be maintained in good condition	Sand policy 03.09.2019.	mamconance
		to mined out sand from	by using local earth material.	Mining activity will be done up to 0.40 m	
		river.	Mining activity will be restricted to	depth and dry bed only. Mining will not be	
		117 61.	maximum depth of 0.40 m as per	done near river banks.	
			GSDA survey. Miningactivity will not	done near river banks.	
			done near the river banks. Mining		
			activity will be donein dry bed only.		
			Monitoring will be done to meet		
			the criteria of parameters as per		
			norms of CPCB/ SPCB.		
C	1				
	nclusions:	مرانده مانده میناهای میرومیناه و ط	manner only use the duethin and mal	pile toilet to prevent disposal of solid waste and	aataatau in thanissau
_	gested to worke I nearby land sur	0 1	manner only use the dustom and mor	one tonet to prevent disposal of sond waste and	waste water in theriver
			2 +	YAYANA ANA ANA ANA ANA ANA ANA ANA ANA A	D- 45000/
5.	Biological	No impact anticipated on	1	Water spraying on haul road and time to	Rs 45000/- water
	Environment	biological environment	for transportation of sand. So	time maintenance will be done to avoid dust	sprinkling
		due to proposed mining	anticipated suspended	generation.	
		activity as mining	particulates are in negligible.		
		activity will be carried	Protective measures like water		
		out in running dry river	spraying on unpaved road, leveling		
		bed.	of unpaved road and sand covered		
		Suspended particulates	after loading will be used to		
		are only source, which	prevent.		
		has the impact on			
	i .	near by crops.	I	l	

		Dit developed due to			
		Pit developed due to			
		mining may be			
		dangerous for animals.			
	<u>iclusions:</u>				
Not	any impact is anti	icipated on nearby fauna and F	lora due to proposed mining activity. Sug	gested to lease adopt the mitigation measures for du	ist suppression.
6.	Socio-	Negative impact is not	Employment will be given to local	Advise to lease given preference to local	
	Economic	anticipated on socio-	people for unskilled labor.	people.	
	Environment	economic environment.			
		Over all positive impact			
		will be done due to			
		proposed mining activity			
		like employment,			
		availability of sand.			
Cor	iclusion:	-			
		o local people for employr	nent as labor.		
7.	Occupational	Hazards on site are	First aid box to be provided for	First aid and sanitary facility provide to	Total Amount: Rs
	Health &	anticipated like health	initial treatment.	workers.	1,13,000/-
	Safety	issue due to dust,	Temporary shed will be provided.		Rs 1250/- for First
		dehydration, heat	Notice board will be placed at		Aid Box
		expose and rest shed.	mining site, and guard will be		Rs 3000/- Personal
		Accident from spadesand	posted in three shifts to prevent		Protective Equipment
		heavy boulder.	any accident.		Rs 8000/- For
					Temporary shed
					Rs 1,00,000/-
					Mobile Toilet
					Rs 750/- waste bin
Cor	clusion:				
Sug	gested to provid	led First aid and sanitary fac	ility to workers.		
					1

S No	Particulars	Amount in Rs				
1.	Environment Monitoring (Air, Water, Soil and Noise)	30000/-				
2.	Water Sprinkling	45000/-				
3.	Unpaved/ Haul road maintenance	35000/-				
4.	Occupational Health & safety	1,13,000/-				
5.	Tarpaulin	15000/-				
6.	Plantation (along haul and River Bank road)	17100/-				
7.	Security	8000/-				
	Total 2,63,100/-					



(See paragraph - 6) FORM 1M

Application for Mining of Minor Minerals under Category 'B2' for less than and Equal to Five Hectare

(I) Bas	(I) Basic Information						
S. No.	Item	:	D	etails			
1.	Name of the Mining Lease Site	:	Pi	mpla Bed Sand	d Gh	at	
2.	Location/Site (GPS Co-ordinate)	:	Tł	ne proposed s	and	quarry area is situat	ted in Pimpla village,
			Тє	ehsil- Parseoni	i, Dis	strict- Nagpur (Mah	arashtra).The project
			sit	te falls within	the	Survey of India Top	posheet No. 550/3 &
			55	550/8.			
				Boundary		Latitude	Longitude
				Point			
				1		21°19'50.33"N	79°11'8.88"E
				2		21°19'48.11"N	79°11'10.89"E
				3		21°19'43.27"N	79°11'5.52"E
				4		21°19'45.50"N	79°11'3.50"E
3.	Size of the Mining Lease Area	:	1.9	93 Hectare			
4.	Capacity of the Mining Lease	:	27	734 Brass/Ann	num		
5.	Period of the Mining Lease		Oı	ne Year			
6.	Expected Cost of the Project		0.4	43 (In crores)			
7.	Contact Information		Di	istrict Mining (Offic	er (DMO),	
			Na	agpur Collecto	rate,	,	
			Na	agpur (Mahara	ishtr	a)	
			Er	nail: <u>Dmonagp</u>	<u>ur1@</u>	@gmail.com	
	nvironmental Sensitivity						
S. No.	Areas			Name/Iden	_		ilometer/Details
1.	Distance of project site from near			Kanhan Rive	r		35Km away towards
	rail or road bridge over		9	Bridge		SSW from Project S	ite.
	concerned River, Rivulet, Nallah e						
2.	Distance from infrastruct	ura	al	Khaperkhed		At a distance of ~ 9.27 Km away towar	
	Facilities Railway line			Railway		E from Project Site.	
				Station			
	National Highway			NH- 44			96 Km in E direction
						from project site.	
	State Highway/Highway			SH-249			.80 Km in N direction
				J.1 = 17		from project site.	
	Major District Road	Major District Road		-		-	
	Any Other Road	tower				-	
	Electric transmission line pole or to			Pimpla villag	e	At a distance of	
						from the project site	e .
	Canal or check dam or reservoirs	s oi	r ¯	NI _			
	lake or ponds			No		-	
	In-take for drinking water pu	ımp	р	Pimpla villag	e	At a distance of	~ 0.55 direction from
	house					the project site.	

	Intake for Irrigation canal pumps	Pimpla village	At a distance of ~ 0.55 direction from the project site.
3.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value.	No	No such area is located within the studyarea.
4.	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests.	Yes	The quarry area is itself part of water body i.e. River Pench and Kanhan, there are number of tributes of River Pench is also available in Study Area.
5.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	
6.	Inland, coastal, underground waters	Marine	or
7.	State, National boundaries	No	None
8.	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas.	No	-
9.	Defense installations	No	-
7.	Densely populated or built-up area	Pimpla village	At a distance of ~ 0.55 direction
10.	distance from nearest human habitation	i illipia village	from the project site.
11.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	Collage: - Anand Collage, Bakhari, Maharashtra, 1.60 km in SE of ML) Hospital:- Primary health centre, Sataki at 8.14 Km, towards Eof ML from queryarea.
12.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Pench.
13.	Densely populated or built-up area distance from nearest human habitation	Pimpla village	At a distance of ~ 0.55 direction from the project site.
14.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	Collage: - Anand Collage, Bakhari, Maharashtra, 1.60 km in SE of ML) Hospital:- Primary health centre, Sataki at 8.14 Km, towards Eof ML from queryarea.
15.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Pench.
16.	Densely populated or built-up area	Pimpla village	At a distance of ~ 0.55 direction
17	distance from nearest human habitation		from the project site.
17.	Areas occupied by sensitive man-		Collage: - Anand Collage, Bakhari, Maharashtra,

	made land uses (hospitals,	Yes	1.60 km in SE of ML)
	schools, places of worship,		Hospital:-Primary health centre, Sataki at 8.14
	community facilities)		Km, towards Eof ML from query area.
18.	Areas containing important, high		Quarry mine area is falls in river Pench.
	quality or scarce resources (ground		
	water resources, surface resources,	No	
	forestry, agriculture, fisheries,		
	tourism, minerals)		

[&]quot;I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.



Name of Sand Ghat : Pimpla Sand Quarry (Ghut. No. 353 (Part), 354 (Part))

Taluka : Parseoni

District : Nagpur (Maharashtra)

12. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of 1.93 Ha on Pimpla adjoining Ghut. No. 353 (Part), 354 (Part), Village: Pimpla, Tehsil: Parseoni, District: Nagpur (Maharashtra). It has been proposed to collect approximately 2734 Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts onvarious features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 2734 Brass per annum.

13. PURPOSE OF EMP

The purpose of an EMP is to

- Assists project proponent in the preparation of an effective and user friendly activitychart for environment management.
- ➤ Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- ➤ Ensure that environment management details is captured and documented at allstages of a project.

S No	Particulars	Impact	Mitigations Measures	Management Plan	Budget
1.	Air	7. Dust generation dueto	7. 0.8 KLD water will be use for	<u>Unpaved Roads</u>	Rs 25,000/- Water
	Environment	transportation	regular water spraying of 1.10	Water sprinkling will be done for dust	sprinkling
		material by 1 no of	km distance of road.	suppression for 1.10 km distance from mine	
		tractor trolley per	Regularly road leveling and	site.	Rs 20000/-
		day.	maintenance will be done.	To maintain the uniform speed of the	tarpaulin
			Loading material will be covered	trucks/tippers. Leveling will be done.	Rs 30000/- is
			with tarpaulin and overloading	Paved Roads	proposed for baseline
			will be avoided.	The roads will be maintained regularly.	data for one time.
		8. In mining activities,		Limited speed will be adopted by transport	
		the only source of	8. PUC certified vehicles will be	vehicles.	
		gaseous emissions is	used for transportation and run	The loaded vehicles will be covered with	
		from the engines of	under limited speed. Regular	tarpaulin.	
		transport vehicles.	maintenance will be done of	<u>Transportation vehicles</u>	
			vehicles.	The vehicles will be kept at good condition	
				by regular servicing and maintenance.	
				PUC certified vehicles will be used.	
				Over loading will be avoided.	
				Air monitoring will be done to check the	
				criteria of air pollutants.	

Conclusion:

2.	Noise	1 no of tractor trolleyand	Noise generated by the transport	Vehicle will be maintained in good condition	Rs 25000/- is
	Environment	a tractor for water	vehicles will be intermittent and	to avoid unnecessary noise. Road leveling	proposed for baseline
		sprinkling will be source	for very short time, it will notcause	will be done time to time.	data for one time.
		of noise pollution. The	much adverse impact. Vehicles will		
		impact of noise pollution	be maintained to avoid		
		will be for very short	unnecessary noise.		
		time. No machinery will	Periodical monitoring of noise will		
		be use for mining	be done to adopt corrective actions		
		operation.	wherever needed.		

In conclusion, the main source of noise for project will be transportation. Measures are suggested to minimize the noise pollution limited speed of vehicles and regular maintenance of vehicles and approach road.

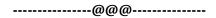
3.	Water	Ground water: Ground	Mining activity will not intersect to	Worker to be advised for use the waste bin	Mobile toil	let:	Rs
	Environment	water will not be	ground water.	and Mobile toilet.	1,00,000/-		
		intersected during	Water requirement of 0.50 KLD for		Waste bin: Rs	750,	/-
		mining work.	domestic and 0.80 KLD for water				
			sprinkling will be met through				
		Surface water: no	water tanker. Low water demand				
		impact anticipated for	will not be affected to ground				
		surface water.	water.				
			Mobile Toilet and Waste bins will				
			be provided for domestic waste.				
			Mining activity will be done in dry				
			bed only.				
					<u> </u>		

Conclusions:

4.	Land	Road will be degraded	Regular water sprinkling will be	Mining activity will be done as per Rule 23 of	Rs 25750/- Road
	Environment	due to transportation.	done. Road of 1.10 km length will	MMME (D&R) Rule 2013 and Maharashtra	maintenance
		River course erosion due	be maintained in good condition	Sand policy 03.09.2019.	
		to mined out sand from	by using local earth material.	Mining activity will be done up to 0.50 m	
		river.	Mining activity will be restricted to	depth and dry bed only. Mining will not be	
			maximum depth of 0.40 m as per	done near river banks.	
			GSDA survey. Miningactivity will not		
			done near the river banks. Mining		
			activity will be donein dry bed only.		
			Monitoring will be done to meet		
			the criteria of parameters as per		
			norms of CPCB/ SPCB.		
Cor	ıclusions:				
Sug	gested to worke	rs working with prescribed	manner only use the dustbin and mol	oile toilet to prevent disposal of solid waste and	waste water in theriver
and	l nearby land sur	face.			
5.	Biological	No impact anticipated on	2 tractor trips per day will be use	Water spraying on haul road and time to	Rs 25000/- water
	Environment	biological environment	for transportation of sand. So	time maintenance will be done to avoid dust	sprinkling
		due to proposed mining	anticipated suspended	generation.	
		activity as mining	particulates are in negligible.		
		activity will be carried	Protective measures like water		
		out in running dry river	spraying on unpaved road, leveling		
		bed.	of unpaved road and sand covered		
		Suspended particulates	after loading will be used to		
		are only source, which	prevent.		
		has the impact on			
1		near by crops.			

		Pit developed due to			
		mining may be			
		dangerous for animals.			
Cor	clusions:	C			
Not	any impact is anti	icipated on nearby fauna and F	lora due to proposed mining activity. Sug	gested to lease adopt the mitigation measures for du	ıst suppression.
6.	Socio-	Negative impact is not	Employment will be given to local	Advise to lease given preference to local	
	Economic	anticipated on socio-	people for unskilled labor.	people.	
	Environment	economic environment.			
		Over all positive impact			
		will be done due to			
		proposed mining activity			
		like employment,			
		availability of sand.			
Cor	clusion:			L	
Pre	ference given t	o local people for employr	nent as labor.		
7.	Occupational	Hazards on site are	First aid box to be provided for	First aid and sanitary facility provide to	Total Amount: Rs
	Health &	anticipated like health	initial treatment.	workers.	1,13,000/-
	Safety	issue due to dust,	Temporary shed will be provided.		Rs 1250/- for First
		dehydration, heat	Notice board will be placed at		Aid Box
		expose and rest shed.	mining site, and guard will be		
		Accident from spadesand	posted in three shifts to prevent		Protective Equipment
		heavy boulder.	any accident.		Rs 8000/- For
					Temporary shed
					Rs 1,00,000/-
					Mobile Toilet
					Rs 750/- waste bin
	clusion:				
Sug	gested to provid	led First aid and sanitary fac	ility to workers.		

S No	Particulars	Amount in Rs
1.	Environment Monitoring (Air, Water, Soil and Noise)	30000/-
2.	Water Sprinkling	25000/-
3.	Unpaved/ Haul road maintenance	20000/-
4.	Occupational Health & safety	113000/-
5.	Tarpaulin	15000/-
6.	Plantation (along haul and River Bank road)	7500/-
7.	Security	8000/-
	Total	2,18,500/-



(See paragraph - 6) FORM 1M

Application for Mining of Minor Minerals under Category 'B2' for less than and Equal to Five Hectare

(I) Bas	sic Information							
S. No.	Item	:	Details					
1.	Name of the Mining Lease Site	:	Sihora Bed Sand	l Ghat				
2.	Location/Site (GPS Co-ordinate)	:	The proposed sand quarry area is situated in Sihora			ited in Sihora village,		
			Tehsil- Parseon	Tehsil- Parseoni, District- Nagpur (Maharashtra).The proje				
			site falls within the Survey of India Toposheet No. $550/3 \&$					
			550/8.	550/8.				
			Boundary Latitude Longitud					
			Point					
			1		21°11'57.15"N	79° 15'14.42"E		
			2		21°11'57.20"N	79° 15'09.99"E		
			3		21°11'56.72"N	79° 15'06.68"E		
			4		21°11'57.67"N	79° 15'03.95"E		
			5		21°11'57.62"N	79° 15'01.19"E		
			6		21°11'58.75"N	79° 14'58.19"E		
			7		21°11'54.89"N	79° 15'58.29"E		
			8		21°11'53.67"N	79° 15'13.87"E		
3.	Size of the Mining Lease Area	:	4.50 Hectare					
4.	Capacity of the Mining Lease	:	4770 Brass/Ann	num				
5.	Period of the Mining Lease	:	One year					
6.	Expected Cost of the Project	:	0.99/- (in crores					
7.	Contact Information	:	District Mining		r (DMO),			
			Nagpur Collecto					
			Nagpur (Mahara					
(II) E	i		Email: Dmonagp	ur1@g	<u>gmaii.com</u>			
S. No.	nvironmental Sensitivity		Nama /Ida		Distance ir			
5. NO.	Areas		Name/Ider	itity	Kilometer			
1.	Distance of project site from near	roct	Vanhan Divor B	ridao				
1.	rail or road bridge over		Kaiman Kivei D	niuge	towards NE from 1	-		
	concerned River, Rivulet, Nallah				towards IVE ITOM	Toject site.		
2.	Distance from infrastruct		Kanhan Railwa	W	At a distance of ~	3 00 Km away		
2.	Facilities Railway line	ui u	Station	i.y	towards NW from	3		
	National Highway		NH- 247		At a distance of ~	Ť		
	Tradional Ingliway		1111-24/		direction from pro			
	State Highway/Highway				At a distance of ~	-		
	State Ingliviay/ Ingliviay		SH-266		direction from pro			
	Major District Road		-		-			
	Any Other Road		-		-			
	Electric transmission line pole or to	wer	Sihora villa	ge	At a distance of	~ 1.0Km direction		
				_	from the project s	ite.		

	Canal or check dam or reservoirs or lake or ponds	No	
	In-take for drinking water pump house	Sihora village	At a distance of ~ 1.00 Km direction from the project site.
	Intake for Irrigation canal pumps	Sihora village	At a distance of \sim 1.00 Km direction from the project site.
3.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value.	No	No such area is located within the studyarea.
4.	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests.	Yes	The quarry area is itself part of water body i.e. River Kanhan, there are number of tributes of River Kanhan is also available in Study Area.
5.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	
6.	Inland, coastal, underground waters	Marine	Or
7.	State, National boundaries	No	None
8.	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas.	No	-
9.	Defense installations	Yes	Cantonment Board Office Kamptee, At a distance of ~6.90 Km towards NW from the Project site.
10.	Densely populated or built-up area distance from nearest human habitation	Sihora village	At a distance of ~ 1.00 Km direction from the project site.
11.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - Pandit jawaharlal nehru vidyalaya kanhan, 3.18 km in SE of ML) Hospital:-Primary health centre, Kanhan at 3.40 Km, towards NWofML from query area.
12.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Kanhan.
13.	Densely populated or built-up area distance from nearest human habitation	Sihora village	At a distance of ~ 1.00 Km direction from the project site.
14.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - Pandit jawaharlal nehru vidyalaya kanhan, 3.18 km in SE of ML) Hospital:-Primary health centre, Kanhan at 3.40 Km, towards NWofML from query area.
15.	Areas containing important, high quality or scarce resources (ground		Quarry mine area is falls in river Kanhan.

	water resources, surface resources,	No	
	forestry, agriculture, fisheries,		
	tourism, minerals)		
16.	Densely populated or built-up area	Sihora village	At a distance of ~ 1.00 Km
	distance from nearest human habitation		direction from the project site.
17.	Areas occupied by sensitive man-		School: - Pandit jawaharlal nehru
	made land uses (hospitals,	Yes	vidyalaya kanhan, 3.18 km in SE of ML)
	schools, places of worship,		Hospital:-Primary health centre, Kanhan at
	community facilities)		3.40 Km, towards NWofML from query area.
18.	Areas containing important, high		Quarry mine area is falls in river
	quality or scarce resources (ground		Kanhan.
	water resources, surface resources,	No	
	forestry, agriculture, fisheries,		
	tourism, minerals)		

[&]quot;I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.



Name of Sand Ghat : Sihora Sand Quarry (Ghut. No. 170/1,170/2 (Part))

Taluka : Parseoni

District : Nagpur (Maharashtra)

16. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of 4.50 Ha on Sihora adjoining Ghut. No. 170/1,170/2 (Part), Village: Sihora, Tehsil: Parseoni, District: Nagpur (Maharashtra). It has been proposed to collect approximately 4770 Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts onvarious features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 4770 Brass per annum.

17. PURPOSE OF EMP

The purpose of an EMP is to

- Assists project proponent in the preparation of an effective and user friendly activitychart for environment management.
- Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- ➤ Ensure that environment management details is captured and documented at all stages of a project.

Environment transportation material by 1 no of tractor trolley per day. The regular water spraying of 1.10 km distance from mine suppression for 1.10 km distance from mine site. To maintain the uniform speed of the trucks/tippers. Leveling will be done. Loading material will be avoided. Regularly road leveling and maintenance will be done. Loading material will be covered with tarpaulin and overloading will be maintained regularly. Limited ground will be done for dust suppression for 1.10 km distance from mine site. To maintain the uniform speed of the trucks/tippers. Leveling will be done. Rs Paved Roads The roads will be maintained regularly. Limited ground will be done for dust suppression for 1.10 km distance from mine site. To maintain the uniform speed of the trucks/tippers. Leveling will be done. Limited ground will be done for dust suppression for 1.10 km distance from mine site. To maintain the uniform speed of the trucks/tippers. Leveling will be done. Limited ground will be done for dust suppression for 1.10 km distance from mine site. To maintain the uniform speed of the trucks/tippers. Leveling will be done. Limited ground will be done for dust suppression for 1.10 km distance from mine site. To maintain the uniform speed of the trucks/tippers. Leveling will be done.	Budget
10. In mining activities, the only source of gaseous emissions is from the engines of transport vehicles. 10. PUC certified vehicles will be used for transportation and rununder limited speed. Regular maintenance will be done of vehicles. 10. PUC certified vehicles will be covered with tarpaulin. 11. Transportation vehicles. 12. The loaded vehicles will be covered with tarpaulin. 13. Transportation vehicles 14. Transportation vehicles 15. The vehicles will be kept at good condition by regular servicing and maintenance. 16. PUC certified vehicles will be adopted by transport vehicles. 17. Transportation vehicles 18. Over loading will be adopted by transport vehicles. 18. Over loading will be adopted by transport vehicles. 18. Over loading will be adopted by transport vehicles. 19. Over loading will be adopted by transport vehicles.	s 51,000/- Water prinkling s 33000/- arpaulin

Conclusion:

2.	Noise	1 no of tractor trolleyand	Noise generated by the transport	Vehicle will be maintained in good condition	Rs 25000/- is
	Environment	a tractor for water	vehicles will be intermittent and	to avoid unnecessary noise. Road leveling	proposed for baseline
		sprinkling will be source	for very short time, it will notcause	will be done time to time.	data for one time
		of noise pollution. The	much adverse impact. Vehicles will		
		impact of noise pollution	be maintained to avoid		
		will be for very short	unnecessary noise.		
		time. No machinery will	Periodical monitoring of noise will		
		be use for mining	be done to adopt corrective actions		
		operation.	wherever needed.		

In conclusion, the main source of noise for project will be transportation. Measures are suggested to minimize the noise pollution limited speed of vehicles and regular maintenance of vehicles and approach road.

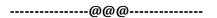
3.	Water	Ground water: Ground	Mining activity will not intersect to	Worker to be advised for use the waste bin	Mobile	toilet:	Rs
	Environment	water will not be	ground water.	and Mobile toilet.	1,50,000	/-	
		intersected during	Water requirement of 0.60 KLD for		Waste bir	n: Rs 750	/-
		mining work.	domestic and 0.90 KLD for water				
			sprinkling will be met through				
		Surface water: no	water tanker. Low water demand				
		impact anticipated for	will not be affected to ground				
		surface water.	water.				
			Mobile Toilet and Waste bins will				
			be provided for domestic waste.				
			Mining activity will be done in dry				
			bed only.				

Conclusions:

4.	Land Environment	Road will be degraded due to transportation. River course erosion due to mined out sand from river.	Regular water sprinkling will be done. Road of 1.10 km length will be maintained in good condition by using local earth material. Mining activity will be restricted to maximum depth of 0.30 m as per GSDA survey. Miningactivity will not done near the river banks. Mining activity will be donein dry bed only. Monitoring will be done to meet the criteria of parameters as per norms of CPCB/ SPCB.	Mining activity will be done as per Rule 23 of MMME (D&R) Rule 2013 and Maharashtra Sand policy 03.09.2019. Mining activity will be done up to 0.30 m depth and dry bed only. Mining will not be done near river banks.	Rs 25500/- Road maintenance
Sug	nclusions: gested to worke I nearby land sur	-	manner only use the dustbin and mol	oile toilet to prevent disposal of solid waste and	waste water in theriver
5.	Biological Environment	No impact anticipated on biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on near by crops.		Water spraying on haul road and time to time maintenance will be done to avoid dust generation.	Rs 30000/- water sprinkling

		Pit developed due to			
		mining may be			
		dangerous for animals.			
Con	clusions:				
Not	any impact is anti	cipated on nearby fauna and F	lora due to proposed mining activity. Sug	gested to lease adopt the mitigation measures for du	st suppression.
6.	Socio-	Negative impact is not	Employment will be given to local	Advise to lease given preference to local	
	Economic	anticipated on socio-	people for unskilled labor.	people.	
	Environment	economic environment.			
		Over all positive impact			
		will be done due to			
		proposed mining activity			
		like employment,			
		availability of sand.			
Con	clusion:				
Pre	ference given t	o local people for employr	nent as labor.		
7.	Occupational	Hazards on site are	First aid box to be provided for	First aid and sanitary facility provide to	Total Amount: Rs
	Health &	anticipated like health	initial treatment.	workers.	1,50,000/-
	Safety	issue due to dust,	Temporary shed will be provided.		Rs 2500/- for First
		dehydration, heat	Notice board will be placed at		Aid Box
		expose and rest shed.	mining site, and guard will be		Rs 4000/- Personal
		Accident from spadesand	posted in three shifts to prevent		Protective Equipment
		heavy boulder.	any accident.		Rs 10000/- For
					Temporary shed
					Rs 1,32,750/-
					Mobile Toilet
					Rs 750/- waste bin
	clusion:				
Sug	gested to provid	ed First aid and sanitary fac	ility to workers.		

S No	Particulars	Amount in Rs			
1.	Environment Monitoring (Air, Water, Soil and Noise)	30000/-			
2.	Water Sprinkling	51000/-			
3.	Unpaved/ Haul road maintenance	30000/-			
4.	Occupational Health & safety	175500/-			
5.	Tarpaulin	33000/-			
6.	Plantation (along haul and River Bank road)	17000/-			
7.	Security	8000/-			
	Total 3,44,500/-				



(See paragraph - 6) FORM 1M

Application for Mining of Minor Minerals under Category 'B2' for less than and Equal to Five Hectare

(I) Basic Information

. ,	SIC Information	1.1	Details					
S. No.	Item	:	Details	-1 Cl -1				
1.	Name of the Mining Lease Site	:	Waghoda Bed Sa		, 1 , 747 1 3 -33			
2.	Location/Site (GPS Co-ordinate)	:			nated in Waghoda village,			
			Tehsil- Parseoni, District- Nagpur (Maharashtra). The project					
			site falls within the Survey of India Toposheet No. 550/3 &					
			550/8.	I: J -	T: J -			
			Boundary Point	Latitude	Longitude			
				21°17'58.58"N	79°11'57.37"E			
			2	21 17 58.58 N 21°18'6.35"N	79 11 57.57 E 79°12'4.06"E			
			3	21°18' 2.31"N	79 12 4.06 E 79°12'6.94"E			
			4	21 18 2.31 N 21°17'55.65"N	79 12 6.94 E 79°12'0.13"E			
2	Cina of the Minima Lagra Assa			21 1/ 55.05 N	/9 12 U.13 E			
3.	Size of the Mining Lease Area	:	4.00 Hectare					
4.	Capacity of the Mining Lease	:	12746 Brass/An	num				
5.	Period of the Mining Lease	:	One year	1				
6.	Expected Cost of the Project	:	1.74/- (in crores)					
7.	Contact Information	:	District Mining O	` '				
			Nagpur Collector					
			Nagpur (Maharas	•				
	Email: <u>Dmonagpur1@gmail.com</u>							
S. No.	nvironmental Sensitivity		Nama /Idan	tity Distance	o in			
5. NO.	Areas		Name/Iden	-				
1.	Distance of project site from nea	roct	Pench River Bri		Kilometer/Details At a distance of ~2.50Km away			
1.	rail or road bridge over			•	•			
	concerned River, Rivulet, Nallah			towards NW II	towards NW from Project Site.			
2.	Distance from infrastruct		l Khaparkheda	At a distance o	f ~ 4.67 Km away			
۷.		tura	Railway		om Project Site.			
	Facilities Railway line		Station	towards 5vv iii	om i roject site.			
	National Highway		NH- 44	At a distance o	f 200 Vm in E divertion			
	National Highway		NH- 44	from project si	At a distance of ~ 3.00 Km in E direction			
	State Highway/Highway				f ~ 6.00 Km in W			
	State filgilway/filgilway		SH-267	direction from				
	Major District Road			un ection nom	project site.			
			-					
	Any Other Road		-	-				
Electric transmission line pole or tower		Waghoda villa	5°	of $\sim 2.00 \text{ Km}$ the project site.				
	Canal or check dam or reservoir	s or						
	lake or ponds		No	-				
	In-take for drinking water p	ump	Waghoda villa	ge At a distance	of ~ 2.00 Km direction			
		_						
	house		from the project site.		ct site.			

	Intake for Irrigation canal pumps	Waghoda village	At a distance of ~2.00 Km direction from the project site.
3.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value.	No	No such area is located within the studyarea.
4.	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests.	Yes	The quarry area is itself part of water body i.e. River Pench, there are number of tributes of River Pench is also available in Study Area.
5.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	
6.	Inland, coastal, underground waters	Marine	Or
7.	State, National boundaries	No	None
8.	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas.	No	-
9.	Defense installations	Yes	Cantonment Board Office Kamptee, At a distance of ~8.00 Km towards SSW from the Project site.
10.	Densely populated or built-up area distance from nearest human habitation	Waghoda village	At a distance of ~ 2.00 Km direction from the project site.
11.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - Anand Collage Bhakari, 1.81 km in NW of ML) Hospital:-Primary health centre, Khamthi at 7.00 Km, towards SEof ML from query area.
12.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Pench.
13.	Densely populated or built-up area distance from nearest human habitation	Waghoda village	At a distance of ~ 2.00 Km direction from the project site.
14.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - Anand Collage Bhakari, 1.81 km in NW of ML) Hospital:- Primary health centre, Khamthi at 7.00 Km, towards SEof ML from query area.
15. 16.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals) Densely populated or built-up area	No	Quarry mine area is falls in river Pench. At a distance of ~ 2.00 Km
10.	bensely populated of built-up alea	Waghoda village	The a distance of 2.00 Kill

	distance from nearest human habitation		direction from the project site.
17.	Areas occupied by sensitive man- made land uses (hospitals,	Yes	School: - Anand Collage Bhakari, 1.81 km in NW of ML)
	schools, places of worship, community facilities)		Hospital:-Primary health centre, Khamthi at 7.00 Km, towards SEof ML from query area.
18.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Pench.

[&]quot;I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.



Name of Sand Ghat : Waghoda Sand Quarry (127/1 (Part))

Taluka : Parseoni

District : Nagpur (Maharashtra)

20. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of 4.00 Ha on Waghoda adjoining Ghut. No. 127/1 (Part), Village: Waghoda, Tehsil: Parseoni, District: Nagpur (Maharashtra). It has been proposed to collect approximately 12746 Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts onvarious features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 12746 Brass per annum.

21. PURPOSE OF EMP

- Assists project proponent in the preparation of an effective and user friendly activitychart for environment management.
- Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- ➤ Ensure that environment management details is captured and documented at all stages of a project.

S No	Particulars	Impact	Mitigations Measures	Management Plan	Budget
1.	Air Environment	 11. Dust generation due to transportation material by 2 no of tractor trolley per day. 12. In mining activities, the only source of gaseous emissions is from the engines of transport vehicles. 	11. 1.20 KLD water will be use for regular water spraying of 1.10 km distance of road. Regularly road leveling and maintenance will be done. Loading material will be covered with tarpaulin and overloading will be avoided.	Unpaved Roads Water sprinkling will be done for dust suppression for 1.10 km distance from mine site. To maintain the uniform speed of the trucks/tippers. Leveling will be done. Paved Roads The roads will be maintained regularly. Limited speed will be adopted by transport vehicles. The loaded vehicles will be covered with tarpaulin. Transportation vehicles The vehicles will be kept at good condition by regular servicing and maintenance. PUC certified vehicles will be used. Over loading will be avoided. Air monitoring will be done to check the criteria of air pollutants.	Rs 80,000/- Water sprinkling Rs 57000/- tarpaulin Rs 45000/- is proposed for baseline data for one time.

Conclusion:

2.	Noise	1 no of tractor trolleyand	Noise generated by the transport	Vehicle will be maintained in good condition	Rs 35000/- is
	Environment	a tractor for water	vehicles will be intermittent and	to avoid unnecessary noise. Road leveling	proposed for baseline
		sprinkling will be source	for very short time, it will notcause	will be done time to time.	data for one time.
		of noise pollution. The	much adverse impact. Vehicles will		
		impact of noise pollution	be maintained to avoid		
		will be for very short	unnecessary noise.		
		time. No machinery will	Periodical monitoring of noise will		
		be use for mining	be done to adopt corrective actions		
		operation.	wherever needed.		

Conclusions:

In conclusion, the main source of noise for project will be transportation. Measures are suggested to minimize the noise pollution limited speed of vehicles and regular maintenance of vehicles and approach road.

3.	Water	Ground water: Ground	Mining activity will not intersect to	Worker to be advised for use the waste bin	Mobile	toilet:	Rs
	Environment	water will not be	ground water.	and Mobile toilet.	400,000	/-	
		intersected during	Water requirement of 0.90 KLD for		Waste bi	n: Rs 750	1/-
		mining work.	domestic and 1.20 KLD for water				
			sprinkling will be met through				
		Surface water: no	water tanker. Low water demand				
		impact anticipated for	will not be affected to ground				
		surface water.	water.				
			Mobile Toilet and Waste bins will				
			be provided for domestic waste.				
			Mining activity will be done in dry				
			bed only.				

Conclusions:

4.	Land Environment	Road will be degraded due to transportation. River course erosion due to mined out sand from river.	Regular water sprinkling will be done. Road of 1.10 km length will be maintained in good condition by using local earth material. Mining activity will be restricted to maximum depth of 0.90 m as per GSDA survey. Miningactivity will not done near the river banks. Mining activity will be donein dry bed only. Monitoring will be done to meet the criteria of parameters as per norms of CPCB/ SPCB.	Mining activity will be done as per Rule 23 of MMME (D&R) Rule 2013 and Maharashtra Sand policy 03.09.2019. Mining activity will be done up to 0.90 m depth and dry bed only. Mining will not be done near river banks.	Rs 30750/- Road maintenance
Sug	nclusions: gested to worke I nearby land sur	-	manner only use the dustbin and mol	oile toilet to prevent disposal of solid waste and	waste water in theriver
5.	Biological Environment	No impact anticipated on biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on near by crops.		Water spraying on haul road and time to time maintenance will be done to avoid dust generation.	Rs 80000/- water sprinkling

		Pit developed due to					
		mining may be					
		dangerous for animals.					
	<u>clusions:</u>						
Not any impact is anticipated on nearby fauna and Flora due to proposed mining activity. Suggested to lease adopt the mitigation measures for dust suppre							
6.	Socio-	Negative impact is not	Employment will be given to local	Advise to lease given preference to local			
	Economic	anticipated on socio-	people for unskilled labor.	people.			
	Environment	economic environment.					
		Over all positive impact					
		will be done due to					
		proposed mining activity					
		like employment,					
		availability of sand.					
Con	<u>clusion:</u>						
Pre	ference given t	o local people for employr	nent as labor.				
7.	Occupational	Hazards on site are	First aid box to be provided for	First aid and sanitary facility provide to	Total Amount: Rs		
	Health &	anticipated like health	initial treatment.	workers.	448500/-		
	Safety	issue due to dust,	Temporary shed will be provided.		Rs 4500/- for First		
		dehydration, heat	Notice board will be placed at		Aid Box		
		expose and rest shed.	mining site, and guard will be		Rs 8600/- Personal		
		Accident from spadesand	posted in three shifts to prevent		Protective Equipment		
		heavy boulder.	any accident.		Rs 33000/- For		
					Temporary shed		
					Rs 400,000/-		
					Mobile Toilet		
					Rs 2400/- waste bin		
	<u>clusion:</u>						
Sugg	gested to provid	ed First aid and sanitary fac	ility to workers.				

S No	Particulars	Amount in Rs			
1.	Environment Monitoring (Air, Water, Soil and Noise)	40,000/-			
2.	Water Sprinkling	80,000/-			
3.	Unpaved/ Haul road maintenance	40,000/-			
4.	Occupational Health & safety	4,48,500/-			
5.	Tarpaulin	57,000/-			
6.	Plantation (along haul and River Bank road)	16,700/-			
7.	Security	8,000/-			
	Total 6,90,200/-				



(See paragraph - 6) FORM 1M

Application for Mining of Minor Minerals under Category 'B2' for less than and Equal to Five Hectare

(I) Ba	sic Information					
S. No.	Item	:	Details			
1.	Name of the Mining Lease Site	:	Yesamba Bed Sar	nd Gh	nat	
2.	Location/Site (GPS Co-ordinate)	:	The proposed sand quarry area is situated in Yesamba village Tehsil- Parseoni, District- Nagpur (Maharashtra). The project site falls within the Survey of India Toposheet No. 550/3 & 550/8.			
			Boundary Point		Latitude	Longitude
			1	2	21°17'47.62"N	79°11'39.17"E
			2	2	21°17'49.63"N	79°11'37.71"E
			3	2	21°17'53.47"N	79°11'43.72"E
			4	2	21°17'51.45"N	79°11'45.17"E
3.	Size of the Mining Lease Area	:	1.57 Hectare			1
4.	Capacity of the Mining Lease	:	5008 Brass/Ann	um		
5.	Period of the Mining Lease	:	One year			
6.	Expected Cost of the Project	:	1.38/- (in crores))		
7.	Contact Information	:	District Mining Officer (DMO),			
			Nagpur Collectorate,			
			Nagpur (Maharashtra)			
			Email: Dmonagpu	ır1@	gmail.com	
(II) E	nvironmental Sensitivity	ironmental Sensitivity				
S. No.	Areas		Name/Iden	tity	Distance in	
					Kilometer	
1.	Distance of project site from near rail or road bridge over concerned River, Rivulet, Nallah e	the		idge	At a distance of ~ towards NW from	•
2.	Distance from infrastruct		l Khaparkheda	L	At a distance of ~	8.44 Km away
	Facilities Railway line		Railway		towards SW from	Project Site.
			Station			
	National Highway		NH- 44		At a distance of ~	3.79 Km in E direction
					from project site.	
	State Highway/Highway		SH-267		At a distance of ~ direction from pro	
	Major District Road		-		-	
	Any Other Road		-		-	
	Electric transmission line pole or tower		Yesamba villa	ige	At a distance of direction from the	
	Canal or check dam or reservoir	s or				
	lake or ponds		No		-	
	In-take for drinking water pu	ump	Yesamba villa	ige	At a distance of from the project s	\sim 0.90 Km direction ite.
			1	On	ben Arch Design and E	nviro Solutions I I D

	Intake for Irrigation canal pumps	Yesamba village	At a distance of \sim 0.90 Km direction from the project site.
3.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value.	No	No such area is located within the studyarea.
4.	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests.	Yes	The quarry area is itself part of water body i.e. River Pench, there are number of tributes of River Pench is also available in Study Area.
5.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	
6.	Inland, coastal, underground waters	Marine	Or
7.	State, National boundaries	No	None
8.	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas.	No	-
9.	Defense installations	Yes	Cantonment Board Office Kamptee, At a distance of ~7.79 Km towards SSW from the Project site.
10.	Densely populated or built-up area distance from nearest human habitation	Yesamba village	At a distance of ~ 0.90 Km direction from the project site.
11.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - Anand Collage Bhakari, 2.00 km in N of ML) Hospital:-Primary health centre, Khamthi at 7.00 Km, towards SEof ML from query area.
12.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Pench.
13.	Densely populated or built-up area distance from nearest human habitation	Yesamba village	At a distance of ~ 0.90 Km direction from the project site.
14.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - Anand Collage Bhakari, 2.00 km in N of ML) Hospital:- Primary health centre, Khamthi at 7.00 Km, towards SEof ML from query area.
15.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Pench.
16.	Densely populated or built-up area	Yesamba village	At a distance of ~ 0.90 Km

	distance from nearest human habitation		direction from the project site.
17.	Areas occupied by sensitive man- made land uses (hospitals,	Yes	School: - Anand Collage Bhakari, 2.00 km in N of ML)
	schools, places of worship, community facilities)		Hospital:-Primary health centre, Khamthi at 7.00 Km, towards SEof ML from query area.
18.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Pench.

[&]quot;I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.

Name of Sand Ghat : Yesamba Sand Quarry (207 (Part))

Taluka : Parseoni

District : Nagpur (Maharashtra)

24. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of 1.57 Ha on Yesamba adjoining Ghut. No. 207 (Part), Village: Yesamba, Tehsil: Parseoni, District: Nagpur (Maharashtra). It has been proposed to collect approximately 5008 Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts onvarious features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 5008 Brass per annum.

25. PURPOSE OF EMP

- Assists project proponent in the preparation of an effective and user friendly activitychart for environment management.
- Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- ➤ Ensure that environment management details is captured and documented at all stages of a project.

	Impact	Mitigations Measures	Management Plan	Budget
1. Air Environme	13. Dust generation	 13. 0.8 KLD water will be use for regular water spraying of 1.10 km distance of road. Regularly road leveling and maintenance will be done. Loading material will be covered with tarpaulin and overloading will be avoided. 14. PUC certified vehicles will be used for transportation and rununder limited speed. Regular maintenance, will be done of 	Unpaved Roads Water sprinkling will be done for dust suppression for 1.10 km distance from mine site. To maintain the uniform speed of the trucks/tippers. Leveling will be done. Paved Roads The roads will be maintained regularly. Limited speed will be adopted by transport vehicles. The loaded vehicles will be covered with tarpaulin. Transportation vehicles The vehicles will be kept at good condition by regular servicing and maintenance. PUC certified vehicles will be used. Over loading will be avoided. Air monitoring will be done to check the criteria of air pollutants.	Rs 90,000/- Water sprinkling Rs 45000/- tarpaulin Rs 35000/- is proposed for baseline data for one time.

Conclusion:

2.	Noise	1 no of tractor trolleyand	Noise generated by the transport	Vehicle will be maintained in good condition	Rs 35000/- is
	Environment	a tractor for water	vehicles will be intermittent and	to avoid unnecessary noise. Road leveling	proposed for baseline
		sprinkling will be source for very short time, it will		will be done time to time.	data for one time.
		of noise pollution. The much adverse impact. Vehicles w			
		impact of noise pollution	be maintained to avoid		
		will be for very short	unnecessary noise.		
		time. No machinery will	Periodical monitoring of noise will		
		be use for mining	be done to adopt corrective actions		
		operation.	wherever needed.		

Conclusions:

In conclusion, the main source of noise for project will be transportation. Measures are suggested to minimize the noise pollution limited speed of vehicles and regular maintenance of vehicles and approach road.

3.	Water	Ground water: Ground	Mining activity will not intersect to	Worker to be advised for use the waste bin	Mobile	toilet:	Rs
	Environment	water will not be	ground water.	and Mobile toilet.	3,00,000/	/-	
		intersected during	Water requirement of 0.50 KLD for		Waste bin	n: Rs 750	/-
		mining work.	domestic and 0.8 KLD for water				
			sprinkling will be met through				
		Surface water: no	water tanker. Low water demand				
		impact anticipated for	will not be affected to ground				
		surface water.	water.				
			Mobile Toilet and Waste bins will				
			be provided for domestic waste.				
			Mining activity will be done in dry				
			bed only.				
	1						

Conclusions:

4.	Land Environment	Road will be degraded due to transportation. River course erosion due to mined out sand from river.	Regular water sprinkling will be done. Road of 1.10 km length will be maintained in good condition by using local earth material. Mining activity will be restricted to maximum depth of 0.90 m as per GSDA survey. Miningactivity will not done near the river banks. Mining activity will be donein dry bed only. Monitoring will be done to meet the criteria of parameters as per norms of CPCB/ SPCB.	Mining activity will be done as per Rule 23 of MMME (D&R) Rule 2013 and Maharashtra Sand policy 03.09.2019. Mining activity will be done up to 0.90 m depth and dry bed only. Mining will not be done near river banks.	Rs 30750/- Road maintenance
Sug	nclusions: gested to worke I nearby land sur	• •	manner only use the dustbin and mol	oile toilet to prevent disposal of solid waste and	waste water in theriver
5.	Biological Environment	No impact anticipated on biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on near by crops.	3 tractor trips per day will be use for transportation of sand. So anticipated suspended particulates are in negligible. Protective measures like water spraying on unpaved road, leveling of unpaved road and sand covered after loading will be used to prevent.	Water spraying on haul road and time to time maintenance will be done to avoid dust generation.	Rs 30000/- water sprinkling

Health & anticipated like health issue due to dust, dehydration, heat expose and rest shed. Accident from spadesand heavy boulder. Health & anticipated like health issue due to dust, dehydration, heat expose and rest shed. Accident from spadesand heavy boulder. In the like health issue due to dust, dehydration, heat expose and rest shed. Accident from spadesand heavy boulder. In the like health issue due to dust, dehydration, heat expose and rest shed. Accident from spadesand heavy boulder. In the like health issue due to dust, dehydration, heat expose and rest shed. Notice board will be placed at mining site, and guard will be posted in three shifts to prevent any accident. In the like health issue due to dust, dehydration, heat expose and rest shed. Notice board will be provided. Notice board will be posted at mining site, and guard will be posted in three shifts to prevent any accident. In the like health issue due to dust, dehydration, heat expose and rest shed. Notice board will be provided. Notic			Pit developed due to				
Socio- Negative impact is anticipated on nearby fauna and Flora due to proposed mining activity. Suggested to lease adopt the mitigation measures for dust suppression.			mining may be				
Not any impact is anticipated on nearby fauna and Flora due to proposed mining activity. Suggested to lease adopt the mitigation measures for dust suppression. Socio- Economic Economic Environment Over all positive impact will be done due to proposed mining activity like employment availability of sand. Employment will be given to local people. People.			dangerous for animals.				
6. Socio- Romic Economic environment Over all positive impact will be done due to proposed mining activity like employment, availability of sand. Conclusion: Preference given to local people for employment as labor. 7. Occupational Health & Safety Safety Accident from spadesand heavy boulder. Accident from spadesand heavy boulder. Conclusion: Negative impact is not anticipated in not anticipated in one occupation of the people for unskilled labor. Employment will be given to local people. First aid and sanitary facility provide to workers. Total Amount workers. Total Amount workers. Total Amount workers. Accident from spadesand heavy boulder. Accident from spadesand heavy boulder. Accident from spadesand heavy boulder. Conclusion: Conclusion:	Con	clusions:					
Economic Environment	Not a	any impact is anti	icipated on nearby fauna and F	lora due to proposed mining activity. Sug	gested to lease adopt the mitigation measures for du	ıst suppression.	
Environment Over all positive impact will be done due to proposed mining activity like employment, availability of sand. Conclusion: Preference given to local people for employment as labor. 7. Occupational Health & anticipated like health issue due to dust, dehydration, heat expose and rest shed. Accident from spadesand heavy boulder. Accident from spadesand heavy boulder. Conclusion: Preference given to local people for employment as labor. First aid box to be provided for initial treatment. Temporary shed will be placed at mining site, and guard will be posted in three shifts to prevent any accident. Conclusion: Conclusion: Environment Over all positive impact will be done due to proposed mining activity like employment, availability of sand. First aid and sanitary facility provide to workers. Total Amount of workers. Total Amount of workers. Accident from spadesand heavy boulder. Res 9000/- Pers Protective Equi any accident. Res 19400/- Temporary she Res 3,000, Mobile Toilet Res 2100/- wast	6.	Socio-	Negative impact is not	Employment will be given to local	Advise to lease given preference to local		
Conclusion: Conclusion: Preference given to local people for employment as labor.		Economic	anticipated on socio-	people for unskilled labor.	people.		
Will be done due to proposed mining activity like employment, availability of sand. Conclusion:		Environment	economic environment.				
Conclusion: Preference given to local people for employment as labor. 7. Occupational Health & anticipated like health issue due to dust, dehydration, heat expose and rest shed. Accident from spadesand heavy boulder. Conclusion: Preference given to local people for employment as labor. First aid box to be provided for initial treatment. Temporary shed will be provided. Notice board will be placed at expose and rest shed. Accident from spadesand heavy boulder. Conclusion: Conclusion: Proference given to local people for employment as labor. First aid and sanitary facility provide to workers. 3,38,000/- Rs 7500/- for Aid Box Rs 9000/- Pers Protective Equi Rs 19400/- Temporary she Rs 3,00,0 Mobile Toilet Rs 2100/- wast			Over all positive impact				
Conclusion: Preference given to local people for employment as labor.			will be done due to				
Conclusion: Preference given to local people for employment as labor. 7. Occupational Hazards on site are Health & anticipated like health issue due to dust, dehydration, heat expose and rest shed. Accident from spadesand heavy boulder. Accident from spadesand heavy boulder. Conclusion: Acconclusion: Acconclusion: Acconclusion: Acconclusion: Accident from spadesand heavy boulder. Accident from							
Conclusion: Preference given to local people for employment as labor. 7. Occupational Health & anticipated like health issue due to dust, dehydration, heat expose and rest shed. Accident from spadesand heavy boulder. Conclusion: Conclusion: Preference given to local people for employment as labor. First aid box to be provided for initial treatment. Total Amount workers. Total Amount workers. Total Amount workers. Aid Box Rs 9000/- Pers Protective Equi Rs 19400/- Temporary she Rs 3,00,0 Mobile Toilet Rs 2100/- waste			1 2 ,				
7. Occupational Health & Safety Health & Safety George and rest shed. Accident from spadesand heavy boulder. Accident from spadesand heavy boulder. Conclusion:			availability of sand.				
7. Occupational Health & anticipated like health issue due to dust, dehydration, heat expose and rest shed. Accident from spadesand heavy boulder. Conclusion: According to the destriction of the dest	Conclusion:						
Health Safety issue due to dust, dehydration, heat expose and rest shed. Accident from spadesand heavy boulder. Conclusion: Health Safety issue due to dust, issue due to dust, dehydration, heat expose and rest shed. Accident from spadesand heavy boulder. Conclusion: Accident from spadesand heavy boulder. Accident from spadesand heavy boulder. Accident from spadesand heavy boulder. Conclusion: Aid Box Rs 9000/- Pers Protective Equi Rs 19400/- Temporary she Rs 3,00, Mobile Toilet Rs 2100/- waste	Pref	ference given t	o local people for employi	nent as labor.			
Safety issue due to dust, dehydration, heat expose and rest shed. Accident from spadesand heavy boulder. Conclusion: Safety issue due to dust, dehydration, heat expose and rest shed. Accident from spadesand heavy boulder. Temporary shed will be provided. Notice board will be placed at mining site, and guard will be posted in three shifts to prevent any accident. Rs 9000/- Pers Protective Equi Rs 19400/- Temporary she Rs 3,00, Mobile Toilet Rs 2100/- waster	7.	Occupational	Hazards on site are	First aid box to be provided for	First aid and sanitary facility provide to	Total Amount: Rs	
dehydration, heat expose and rest shed. Accident from spadesand heavy boulder. Accident from spadesand any accident. Aid Box Rs 9000/- Pers Protective Equi any accident. Rs 19400/- Temporary she Rs 3,00, Mobile Toilet Rs 2100/- waste		Health &	anticipated like health	initial treatment.	workers.	3,38,000/-	
expose and rest shed. Accident from spadesand heavy boulder. mining site, and guard will be posted in three shifts to prevent any accident. Rs 9000/- Pers Protective Equitation Rs 19400/- Temporary she Rs 3,00,0 Mobile Toilet Rs 2100/- waster Conclusion:		Safety	issue due to dust,	Temporary shed will be provided.		Rs 7500/- for First	
Accident from spadesand heavy boulder. Accident from spadesand heavy boulder. posted in three shifts to prevent any accident. Rs 19400/- Temporary she Rs 3,00,0 Mobile Toilet Rs 2100/- waste			dehydration, heat	Notice board will be placed at		Aid Box	
heavy boulder. any accident. Rs 19400/- Temporary she Rs 3,00,0 Mobile Toilet Rs 2100/- waste			expose and rest shed.	mining site, and guard will be		Rs 9000/- Personal	
Temporary she Rs 3,00,0 Mobile Toilet Rs 2100/- waste			Accident from spadesand	posted in three shifts to prevent		Protective Equipment	
Rs 3,00,0 Mobile Toilet Rs 2100/- waste			heavy boulder.	any accident.		Rs 19400/- For	
Mobile Toilet Rs 2100/- waste						Temporary shed	
Rs 2100/- waste							
Conclusion:							
						Rs 2100/- waste bin	
Suggested to provided First aid and conitary facility to workers	Con	clusion:		1			
buggested to provided first and and samitary facility to workers.	Sugg	gested to provid	led First aid and sanitary fac	cility to workers.			

S No	Particulars	Amount in Rs
1.	Environment Monitoring (Air, Water, Soil and Noise)	30,000/-
2.	Water Sprinkling	90,000/-
3.	Unpaved/ Haul road maintenance	50,000/-
4.	Occupational Health & safety	3,38,000/-
5.	Tarpaulin	45,000/-
6.	Plantation (along haul and River Bank road)	20,900/-
7.	Security	10,000/-
	Total	5,83,900/-



(See paragraph - 6) FORM 1M

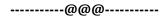
Application for Mining of Minor Minerals under Category 'B2' for less than and Equal to Five Hectare

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	In-take for drinking water pump house	Garanda village	At a distance of $\sim 0.67 \text{Km}$ direction from the project site.
	Intake for Irrigation canal pumps	Garanda village	At a distance of \sim 0.67 Km direction from the project site.
3.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value.	No	No such area is located within the studyarea.
4.	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests.	Yes	The quarry area is itself part of water body i.e. River Pench, there are number of tributes of River Pench is also available in Study Area.
5.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	
6.	Inland, coastal, underground waters	Marine	Or
7.	State, National boundaries	No	None
8.	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas.	No	-
9.	Defense installations	Yes	Cantonment Board Office Kamptee, At a distance of ~9.00 Km towards S from the Project site.
10.	Densely populated or built-up area distance from nearest human habitation	Garanda village	At a distance of ~ 0.67 Km direction from the project site.
11.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - Anand Collage Bhakari, 1.70 km in SE of ML) Hospital:-Primary health centre, Khamthi at 11.00 Km, towards SE of ML from query area.
12.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Pench.
13.	Densely populated or built-up area distance from nearest human habitation	Garanda village	At a distance of ~ 0.67 Km direction from the project site.
14.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - Anand Collage Bhakari, 1.70 km in SE of ML) Hospital:-Primary health centre, Khamthi at 11.00 Km, towards SE of ML from query area.
15.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries,	No	Quarry mine area is falls in river Pench.

	tourism, minerals)		
16.	Densely populated or built-up area	Garanda village	At a distance of ~ 0.67 Km
	distance from nearest human habitation		direction from the project site.
17.	Areas occupied by sensitive man-		School: - Anand Collage Bhakari, 1.70
	made land uses (hospitals,	Yes	km in SE of ML)
	schools, places of worship,		Hospital:-Primary health centre, Khamthi at
	community facilities)		11.00 Km, towards SE of ML from query area.
18.	Areas containing important, high		Quarry mine area is falls in river Pench.
	quality or scarce resources (ground		
	water resources, surface resources,	No	
	forestry, agriculture, fisheries,		
	tourism, minerals)		

[&]quot;I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.



Name of Sand Ghat : Garanda Sand Quarry (Ghut. No. 104 (Part))

Taluka : Parseoni

District : Nagpur (Maharashtra)

28. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of 3.20 Ha on Garanda adjoining Ghut. No. 104 (Part), Village: Garanda, Tehsil: Parseoni, District: Nagpur (Maharashtra). It has been proposed to collect approximately 7915 Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts onvarious features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 7915 Brass per annum.

29. PURPOSE OF EMP

- Assists project proponent in the preparation of an effective and user friendly activitychart for environment management.
- ➤ Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- ➤ Ensure that environment management details is captured and documented at all stages of a project.

S No	Particulars	Impact	Mitigations Measures	Management Plan	Budget
1.	Air Environment	 15. Dust generation due to transportation material by 2 no of tractor trolley per day. 16. In mining activities, the only source of gaseous emissions is from the engines of transport vehicles. 	for regular water spraying of 1.10 km distance of road. Regularly road leveling and maintenance will be done. Loading material will be covered with tarpaulin and overloading will be avoided.	Unpaved Roads Water sprinkling will be done for dust suppression for 1.10 km distance from mine site. To maintain the uniform speed of the trucks/tippers. Leveling will be done. Paved Roads The roads will be maintained regularly. Limited speed will be adopted by transport vehicles. The loaded vehicles will be covered with tarpaulin. Transportation vehicles The vehicles will be kept at good condition by regular servicing and maintenance. PUC certified vehicles will be used. Over loading will be avoided. Air monitoring will be done to check the criteria of air pollutants.	Rs 90,000/- Water sprinkling Rs 70000/- tarpaulin Rs 35000/- is proposed for baseline data for one time.

Conclusion:

2.	Noise	1 no of tractor trolleyand	Noise generated by the transport	Vehicle will be maintained in good condition	Rs 45000/- is		
	Environment	a tractor for water	vehicles will be intermittent and	to avoid unnecessary noise. Road leveling	proposed for baseline		
		sprinkling will be source	for very short time, it will notcause	will be done time to time.	data for one time.		
		of noise pollution. The	much adverse impact. Vehicles will				
		impact of noise pollution	be maintained to avoid				
		will be for very short	unnecessary noise.				
		time. No machinery will	Periodical monitoring of noise will				
		be use for mining	be done to adopt corrective actions				
		operation.	wherever needed.				
Cor	Conclusions:						

In conclusion, the main source of noise for project will be transportation. Measures are suggested to minimize the noise pollution limited speed of vehicles and regular maintenance of vehicles and approach road.

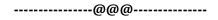
3.	Water	Ground water: Ground	Mining activity will not intersect to	Worker to be advised for use the waste bin	Mobile toilet: Rs
	Environment	water will not be	ground water.	and Mobile toilet.	4,00,000/-
		intersected during	Water requirement of 0.60 KLD for		Waste bin: Rs 750/-
		mining work.	domestic and 1.0 KLD for water		
			sprinkling will be met through		
		Surface water: no	water tanker. Low water demand		
	impact anticipated for		will not be affected to ground		
	surface water.		water.		
			Mobile Toilet and Waste bins will		
			be provided for domestic waste.		
			Mining activity will be done in dry		
			bed only.		
	1				

Conclusions:

4.	Land Environment	Road will be degraded due to transportation. River course erosion due to mined out sand from river.	Regular water sprinkling will be done. Road of 1.10 km length will be maintained in good condition by using local earth material. Mining activity will be restricted to maximum depth of 0.70 m as per GSDA survey. Miningactivity will not done near the river banks. Mining activity will be donein dry bed only. Monitoring will be done to meet the criteria of parameters as per norms of CPCB/ SPCB.	Mining activity will be done as per Rule 23 of MMME (D&R) Rule 2013 and Maharashtra Sand policy 03.09.2019. Mining activity will be done up to 0.70 m depth and dry bed only. Mining will not be done near river banks.	Rs 30750/- Road maintenance
Sug	nclusions: gested to worke I nearby land sur	-	manner only use the dustbin and mol	oile toilet to prevent disposal of solid waste and	waste water in theriver
5.	Biological Environment	No impact anticipated on biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on near by crops.		Water spraying on haul road and time to time maintenance will be done to avoid dust generation.	Rs 30000/- water sprinkling

		mining may be			
		dangerous for animals.			
Con	clusions:				
Not	any impact is anti	cipated on nearby fauna and F	lora due to proposed mining activity. Sug	gested to lease adopt the mitigation measures for du	ıst suppression.
6.	Socio-	Negative impact is not	Employment will be given to local	Advise to lease given preference to local	
	Economic	anticipated on socio-	people for unskilled labor.	people.	
	Environment	economic environment.			
		Over all positive impact			
		will be done due to			
		proposed mining activity			
		like employment,			
		availability of sand.			
Con	clusion:				
Pre	ference given t	o local people for employr	nent as labor.		
7.	Occupational	Hazards on site are	First aid box to be provided for	First aid and sanitary facility provide to	Total Amount: Rs
	Health &	anticipated like health	initial treatment.	workers.	4,00,000/-
	Safety	issue due to dust,	Temporary shed will be provided.		Rs 5500/- for First
		dehydration, heat	Notice board will be placed at		Aid Box
		expose and rest shed.	mining site, and guard will be		Rs 15000/- Personal
		Accident from spadesand	posted in three shifts to prevent		Protective Equipment
		heavy boulder.	any accident.		Rs 35000/- For
					Temporary shed
					Rs 1,20,000/-
					Mobile Toilet
					Rs 3000/- waste bin
Con	clusion:				
Sug	gested to provid	ed First aid and sanitary fac	ility to workers.		

S No	Particulars	Amount in			
		Rs			
1.	Environment Monitoring (Air, Water, Soil and Noise)	40,000/-			
2.	Water Sprinkling	90,000/-			
3.	Unpaved/ Haul road maintenance	70,000/-			
4.	Occupational Health & safety	4,58,500/-			
5.	Tarpaulin	69,000/-			
6.	Plantation (along haul and River Bank road)	15,200/-			
7.	Security	15,000/-			
	Total 7,57,700/-				



(See paragraph - 6) FORM 1M

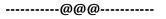
Application for Mining of Minor Minerals under Category 'B2' for less than and Equal to Five Hectare

(I) Ba	(I) Basic Information						
S. No.	Item	:	Details				
1.	Name of the Mining Lease Site	:	Saholi-A Bed Sand	Ghat			
2.	Location/Site (GPS Co-ordinate)	:	The proposed san	The proposed sand quarry area is situated in Saholi-A village,			
			Tehsil- Parseoni, l	District- Nagpur	(Maharashtra).The project		
			site falls within th	e Survey of Ind	ia Toposheet No. 550/3.		
			Boundary	Latitude	Longitude		
			Point				
			1	21°17'03.79'	'N 79°07'25.49"E		
			2	21°16'48.69'	'N 79°07'32.02"E		
			3	21°16'48.16'	'N 79°07'30.39"E		
			4	21°17'03.23'	'N 79°07'23.88"E		
3.	Size of the Mining Lease Area	:	2.5 Hectare				
4.	Capacity of the Mining Lease	:	7067 Brass/Annui	n			
5.	Period of the Mining Lease	:	One year				
6.	Expected Cost of the Project	:	1.44/- (in crores)				
7.	Contact Information	:	District Mining Off				
			Nagpur Collectorat				
			Nagpur (Maharash	•			
			Email: <u>Dmonagpur</u>	1@gmail.com			
	nvironmental Sensitivity		T	. 1			
S. No.	Areas		Name/Ident	- I	ince in		
	D:		Kilometer/Deta		-		
1.	Distance of project site from near			•	ce of ~0.79Km away		
	rail or road bridge over		!	towards ES	E from Project Site.		
	concerned River, Rivulet, Nallah e				C		
2.	Distance from infrastruct	ura	- I		ce of ~ 1.40 Km away		
	Facilities Railway line		Railway towards SW from Project Site		v from Project Site.		
	N 1 XX 1		Station	A. 11.	6 4.05 //		
	National Highway		NH- 247		ce of ~ 1.07 Km in SW		
	Chata Hishaman/Hishaman				rom project site.		
	State Highway/Highway		SH-267		ce of ~ 0.79Km in ESE		
	Major Diatriot Dood			direction ii	om project site.		
	Major District Road Any Other Road		-	-			
	<u> </u>		-	-	6 0047 1:		
	Electric transmission line pole or to		r Saholi-A village	′	nce of ~ 0.94Km direction		
	Control		,	from the pr	oject site.		
	Canal or check dam or reservoirs	s oi	No				
	lake or ponds	11111		At a dista	nce of ~ 0.94Km direction		
	In-take for drinking water pu	ıııl	Saholi-A village	·			
	house			from the pr	oject site.		

	Intake for Irrigation canal pumps	Saholi-A village	At a distance of ~ 0.94 Km direction from the project site.
3.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value.	No	No such area is located within the studyarea.
4.	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests.	Yes	The quarry area is itself part of water body i.e. River Kanhan, there are number of tributes of River Kanhan is also available in Study Area.
5.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	
6.	Inland, coastal, underground waters	Marine	Or
7.	State, National boundaries	No	None
8.	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas.	No	-
9.	Defense installations	Yes	Cantonment Board Office Kamptee, At a distance of ~8.92 Km towards SE from the Project site.
10.	Densely populated or built-up area distance from nearest human habitation	Saholi-A village	At a distance of $\sim 0.94 \text{Km}$ direction from the project site.
11.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - Shankarrao Chavhan School And Collage – School, Khaperkheda, 1.28 km in SW of ML) Hospital:-Primary Health Centre, Chicholi (Khaparkheda) at 1.84 Km, towards SW of ML from queryarea.
12.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Kanhan.
13.	Densely populated or built-up area distance from nearest human habitation	Saholi-A village	At a distance of ~ 0.30 Km direction from the project site.
14.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - Shankarrao Chavhan School And Collage – School, Khaperkheda, 1.28 km in SW of ML)
	community facilities;		Hospital:-Primary Health Centre, Chicholi (Khaparkheda) at 1.84 Km, towards SW of ML from query area.
15.	Areas containing important, high quality or scarce resources (ground		Quarry mine area is falls in river Kanhan.

	water resources, surface resources,	No	
	forestry, agriculture, fisheries,		
	tourism, minerals)		
16.	Densely populated or built-up area	Saholi-A village	At a distance of ~ 0.94Km
	distance from nearest human habitation		direction from the project site.
17.	Areas occupied by sensitive man-		School: - Shankarrao Chavhan School And
	made land uses (hospitals,	Yes	Collage – School, Khaperkheda, 1.28 km in
	schools, places of worship,		SW of ML)
	community facilities)		Hospital:-Primary Health Centre, Chicholi
			(Khaparkheda) at 1.84 Km, towards SW of ML
			from queryarea.
18.	Areas containing important, high		Quarry mine area is falls in river
	quality or scarce resources (ground		Kanhan.
	water resources, surface resources,	No	
	forestry, agriculture, fisheries,		
	tourism, minerals)		

[&]quot;I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.



Name of Sand Ghat : Saholi-A Sand Quarry (Ghut. No. 15, 16, 17, 18 & 19 (Part),)

Taluka : Parseoni

District : Nagpur (Maharashtra)

32. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of 2.5Ha on Saholi-A adjoining Ghut. No. 15, 16, 17, 18 & 19 (Part), Village: Saholi-A, Tehsil: Parseoni, District: Nagpur (Maharashtra). It has been proposed to collect approximately 7067 Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts onvarious features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 7067 Brass per annum.

33. PURPOSE OF EMP

- Assists project proponent in the preparation of an effective and user friendly activitychart for environment management.
- Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- ➤ Ensure that environment management details is captured and documented at allstages of a project.

S No	Particulars	Impact	Mitigations Measures	Management Plan	Budget
S No 1.	Particulars Air Environment	Impact 17. Dust generation due to transportation material by 1 no of tractor trolley per day. 18. In mining	17. 1.00 KLD water will be use for regular water spraying of 1.10 km distance of road. Regularly road leveling and maintenance will be done. Loading material will be covered with tarpaulin and overloading will be avoided.	Unpaved Roads Water sprinkling will be done for dust suppression for 1.10 km distance from mine site. To maintain the uniform speed of the trucks/tippers. Leveling will be done. Paved Roads The roads will be maintained regularly. Limited speed will be adopted by transport vehicles. The loaded vehicles will be covered with tarpaulin. Transportation vehicles The vehicles will be kept at good condition	Rs 45,000/- Water sprinkling Rs 30000/- tarpaulin Rs 30000/- is proposed for baseline data for one time.
		emissions is from the engines of transport	rununder limited speed. Regular maintenance will be done of	tarpaulin. <u>Transportation vehicles</u>	

Conclusion:

2.	Noise	1 no of tractor trolleyand	Noise generated by the transport	Vehicle will be maintained in good condition	Rs 25000/- is
	Environment	a tractor for water	vehicles will be intermittent and	to avoid unnecessary noise. Road leveling	proposed for baseline
		sprinkling will be source	for very short time, it will notcause	will be done time to time.	data for one time.
		of noise pollution. The	much adverse impact. Vehicles will		
		impact of noise pollution	be maintained to avoid		
		will be for very short	unnecessary noise.		
		time. No machinery will	Periodical monitoring of noise will		
		be use for mining	be done to adopt corrective actions		
		operation.	wherever needed.		

Conclusions:

In conclusion, the main source of noise for project will be transportation. Measures are suggested to minimize the noise pollution limited speed of vehicles and regular maintenance of vehicles and approach road.

3.	Water	Ground water: Ground	Mining activity will not intersect to	Worker to be advised for use the waste bin	Mobile toilet: Rs
	Environment	water will not be	ground water.	and Mobile toilet.	1,50,000/-
		intersected during	Water requirement of 0.70 KLD for		Waste bin: Rs 750/-
		mining work.	domestic and 1.00 KLD for water		
			sprinkling will be met through		
		Surface water: no	water tanker. Low water demand		
		impact anticipated for	will not be affected to ground		
		surface water.	water.		
			Mobile Toilet and Waste bins will		
			be provided for domestic waste.		
			Mining activity will be done in dry		
			bed only.		
	<u> </u>				

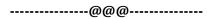
Conclusions:

4.	Land Environment	Road will be degraded due to transportation. River course erosion due to mined out sand from river.	Regular water sprinkling will be done. Road of 1.10 km length will be maintained in good condition by using local earth material. Mining activity will be restricted to maximum depth of 0.30 m as per GSDA survey. Miningactivity will not done near the river banks. Mining activity will be donein dry bed only. Monitoring will be done to meet the criteria of parameters as per norms of CPCB/ SPCB.		Rs 25500/- Road maintenance
Sug	nclusions: gested to worke I nearby land sur	- ·	manner only use the dustbin and mol	oile toilet to prevent disposal of solid waste and	waste water in theriver
5.	Biological Environment	No impact anticipated on biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on near by crops.		Water spraying on haul road and time to time maintenance will be done to avoid dust generation.	Rs 45000/- water sprinkling

		Pit developed due to						
		mining may be						
		dangerous for animals.						
	<u>clusions:</u>							
Not	Not any impact is anticipated on nearby fauna and Flora due to proposed mining activity. Suggested to lease adopt the mitigation measures for dust suppression.							
6.	Socio-	Negative impact is not	Employment will be given to local	Advise to lease given preference to local				
	Economic	anticipated on socio-	people for unskilled labor.	people.				
	Environment	economic environment.						
		Over all positive impact						
		will be done due to						
		proposed mining activity						
		like employment						
		availability of sand.						
	clusion:							
Pre	ference given t	o local people for employr	nent as labor.					
7.	Occupational	Hazards on site are	First aid box to be provided for	First aid and sanitary facility provide to	Total Amount: Rs			
	Health &	anticipated like health	initial treatment.	workers.	1,75,000/-			
	Safety	issue due to dust,	Temporary shed will be provided.		Rs 2500/- for First			
		dehydration, heat	Notice board will be placed at		Aid Box			
		expose and rest shed.	mining site, and guard will be		Rs 4000/- Personal			
		Accident from spadesand	posted in three shifts to prevent		Protective Equipment			
		heavy boulder.	any accident.		Rs 10000/- For			
					Temporary shed			
					Rs 1,57ss,750/-			
					Mobile Toilet			
					Rs 750/- waste bin			
	clusion:							
Sug	gested to provid	ed First aid and sanitary fac	ility to workers.					

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

S No	Particulars	Amount in Rs			
1.	Environment Monitoring (Air, Water, Soil and Noise)	30000/-			
2.	Water Sprinkling	45000/-			
3.	Unpaved/ Haul road maintenance	30000/-			
4.	Occupational Health & safety	175000/-			
5.	Tarpaulin	30000/-			
6.	Plantation (along haul and River Bank road)	17000/-			
7.	Security	8000/-			
	Total 3,35,000/-				



APPENDIX VIII

(See paragraph - 6) FORM 1M

Application for Mining of Minor Minerals under Category 'B2' for less than and Equal to Five Hectare

(I) Ba	sic Information					
S. No.	Item	:	Details			
1.	Name of the Mining Lease Site	:	Saholi-B Bed Sa	nd Gh	at	
2.	Location/Site (GPS Co-ordinate)	:	The proposed s	and q	uarry area is situat	ed in Saholi-B village,
			Tehsil- Parseoni, District- Nagpur (Maharashtra). The project			
			site falls within	the S	urvey of India Topo	sheet No. 550/3.
			· · · · · · · · · · · · · · · · · · ·			
			Boundary		Latitude	Longitude
			Point			
			1		21°16'22.16"N	79°08'24.62"E
			2		21°16'22.95"N	79°08'32.91"E
			3		21°16'24.30"N	79°08'38.98"E
			4		21°16'27.74"N	79°08'44.31"E
			5		21°16'26.01"N	79°08'44.96"E
			6		21°16'22.45"N	79°08'39.85"E
			7		21°16'21.03"N	79°08'33.07"E
			8		21°16'20.43"N	79°08'24.77"E
3.	Size of the Mining Lease Area	:	3.6 Hectare			
4.	Capacity of the Mining Lease	:	12720 Brass/Ar	nnum		
5.	Period of the Mining Lease	:	One year			
6.	Expected Cost of the Project	:	2.60/- (in crores	s)		
7.	Contact Information	:	District Mining		r (DMO),	
			Nagpur Collecto		_	
			Nagpur (Mahara		•	
(Email: Dmonagp	<u>ur1@</u>	gmail.com	
	nvironmental Sensitivity		NY		D	
S. No.	Areas		Name/Idei	itity		
1.	Distance of project site from near	toct	Vanhan Diwar B	Pridao	Kilometer,	
1.	rail or road bridge over			niuge	towards NW from	•
	concerned River, Rivulet, Nallah e				towards NW Irom	Troject Site.
2.	Distance from infrastruct		l Khapri Khed		At a distance of ~	2 27 Km away
2.	Facilities Railway line	uru	Railway	au	towards WSW from	
	racincies Kanway inie		Station		towards wow iron	in Troject bite.
	National Highway		NH- 247		At a distance of ~	1 29 Km in SW
	Tradional Inglittuy		1411 217		direction from pro	
	State Highway/Highway		_		At a distance of ~	
	3 - 37, 3		SH-267		direction from pro	
	Major District Road		-		-	<u>-</u>
	Any Other Road		-		-	
	Electric transmission line pole or to	wei	Saholi-B villa	age	At a distance of	~ 0.64Km direction
	1		Canon D vine	~~~	from the project s	
	1		1		<u> </u>	

	Canal or check dam or reservoirs or lake or ponds	No	-
	In-take for drinking water pump house	Saholi-B village	At a distance of $\sim 0.64 \text{Km}$ direction from the project site.
	Intake for Irrigation canal pumps	Saholi-B village	At a distance of ~ 0.64 Km direction from the project site.
3.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value.	No	No such area is located within the studyarea.
4.	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests.	Yes	The quarry area is itself part of water body i.e. River Kanhan, there are number of tributes of River Kanhan is also available in Study Area.
5.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	
6.	Inland, coastal, underground waters	Marine	Or
7.	State, National boundaries	No	None
8.	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas.	No	-
9.	Defense installations	Yes	Cantonment Board Office Kamptee, At a distance of ~6.96 Km towards SE from the Project site.
10.	Densely populated or built-up area distance from nearest human habitation	Saholi-B village	At a distance of $\sim 0.64 \text{Km}$ direction from the project site.
11.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - Shankarrao Chavhan School And Collage – School, Khaperkheda, 1.98 km in WSW of ML) Hospital:-Primary Health Centre, Chicholi (Khaparkheda) at 2.69 Km, towards NW of ML from query area.
12.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Kanhan.
13.	Densely populated or built-up area distance from nearest human habitation	Saholi-B village	At a distance of $\sim 0.64 \text{Km}$ direction from the project site.
14.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - Shankarrao Chavhan School And Collage – School, Khaperkheda, 1.98 km in WSW of ML) Hospital:- Primary Health Centre, Chicholi

			(Khaparkheda) at 2.69 Km, towards NW of ML from query area.
15.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Kanhan.
16.	Densely populated or built-up area distance from nearest human habitation	Saholi-B village	At a distance of $\sim 0.64 \text{Km}$ direction from the project site.
17.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - Shankarrao Chavhan School And Collage – School, Khaperkheda, 1.98 km in WSW of ML) Hospital:-Primary Health Centre, Chicholi (Khaparkheda) at 2.69 Km, towards NW of ML from query area.
18.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Kanhan.

[&]quot;I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.



Name of Sand Ghat : Saholi B Sand Quarry (115/2, 112/2, 136/2, 141/2,)

Taluka : Parseoni

District : Nagpur (Maharashtra)

36. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of 3.6 Ha on Saholi B adjoining Ghut. No. 115/2, 112/2, 136/2, 141/2, Tehsil: Parseoni, District: Nagpur (Maharashtra). It has been proposed to collect approximately 12720 Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts onvarious features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 12720 Brass per annum.

37. PURPOSE OF EMP

- > Assists project proponent in the preparation of an effective and user friendly activitychart for environment management.
- Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- ➤ Ensure that environment management details is captured and documented at all stages of a project.

S No	Particulars	Impact	Mitigations Measures	Management Plan	Budget
S No 1.	Particulars Air Environment		o .	Unpaved Roads Water sprinkling will be done for dust suppression for 1.10 km distance from mine site. To maintain the uniform speed of the trucks/tippers. Leveling will be done. Paved Roads The roads will be maintained regularly.	Rs 90,000/- Water sprinkling Rs 45000/- tarpaulin Rs 35000/- is proposed for baseline data for one time.
		20. In mining activities, the only source of gaseous emissions is from the engines of transport vehicles.		Limited speed will be adopted by transport vehicles. The loaded vehicles will be covered with tarpaulin. Transportation vehicles The vehicles will be kept at good condition by regular servicing and maintenance. PUC certified vehicles will be used. Over loading will be avoided. Air monitoring will be done to check the criteria of air pollutants.	uata for one time.

Conclusion:

In this proposed mining project the suspended particulates from unpaved road and emission from transportation vehicle's engine are the source air pollution. The proposed mining operations are not anticipated to raise the concentration of the pollutants beyond prescribed limits. However, the measures are suggested to mitigate any harmful impacts of pollutants like planning transportation routes of mined material so as to reach the nearest paved roads by shortest route and avoid over speed and over loading.

2.	Noise	1 no of tractor trolleyand	Noise generated by the transport	Vehicle will be maintained in good condition	Rs 35000/- is
	Environment	a tractor for water	vehicles will be intermittent and	to avoid unnecessary noise. Road leveling	proposed for baseline
		sprinkling will be source	for very short time, it will notcause	will be done time to time.	data for one time.
		of noise pollution. The	much adverse impact. Vehicles will		
		impact of noise pollution	be maintained to avoid		
		will be for very short	unnecessary noise.		
		time. No machinery will	Periodical monitoring of noise will		
		be use for mining	be done to adopt corrective actions		
		operation.	wherever needed.		

Conclusions:

In conclusion, the main source of noise for project will be transportation. Measures are suggested to minimize the noise pollution limited speed of vehicles and regular maintenance of vehicles and approach road.

3.	Water	Ground water: Ground	Mining activity will not intersect to	Worker to be advised for use the waste bin	Mobile	toilet:	Rs
	Environment	water will not be	ground water.	and Mobile toilet.	3,30,000/	/-	
		intersected during	Water requirement of 0.80 KLD for		Waste bin	n: Rs 750	/-
		mining work.	domestic and 1.50 KLD for water				
			sprinkling will be met through				
		Surface water: no	water tanker. Low water demand				
		impact anticipated for	will not be affected to ground				
		surface water.	water.				
			Mobile Toilet and Waste bins will				
			be provided for domestic waste.				
			Mining activity will be done in dry				
			bed only.				

Conclusions:

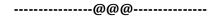
In this mining project in the entire lease period the ground water table will not be intersected hence there will be no impact on the ground water environment and any hazards waste will not be met to surface water. Advised to workers use the dust bin to dispose any domestic solid waste.

4.	Land Environment	Road will be degraded due to transportation. River course erosion due to mined out sand from river.	Regular water sprinkling will be done. Road of 1.10 km length will be maintained in good condition by using local earth material. Mining activity will be restricted to maximum depth of 1.0 m as per GSDA survey. Miningactivity will not done near the river banks. Mining activity will be donein dry bed only. Monitoring will be done to meet the criteria of parameters as per norms of CPCB/ SPCB.		Rs 35500/- Road maintenance
Sug	l iclusions: gested to worke I nearby land sui	• •	manner only use the dustbin and mol	bile toilet to prevent disposal of solid waste and	waste water in theriver
5.	Biological Environment	No impact anticipated on biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on near by crops.		Water spraying on haul road and time to time maintenance will be done to avoid dust generation.	Rs 30000/- water sprinkling

dehydration, heat expose and rest shed. Accident from spadesand heavy boulder. Notice board will be placed at mining site, and guard will be posted in three shifts to prevent any accident. Notice board will be placed at mining site, and guard will be posted in three shifts to prevent any accident. Rs 9000/- Person Protective Equipm Rs 19400/- Temporary shed			Pit developed due to			
Socio- Socio- Regative impact is not anticipated on nearby fauna and Floral due to proposed mining activity. Suggested to lease adopt the mitigation measures for dust suppression.			mining may be			
Not any impact is anticipated on nearby fauna and Flora due to proposed mining activity. Suggested to lease adopt the mitigation measures for dust suppression. Socio-			dangerous for animals.			
6. Socio- Repative impact is not anticipated on socio- economic environment. Over all positive impact will be done due to proposed mining activity like employment availability of sand. Conclusion: Preference given to local people for employment as labor. 7. Occupational Health & anticipated like health issue due to dust, dehydration, heat expose and rest shed. Accident from spadesand heavy boulder. Accident from spadesand heavy boulder. Conclusion: Preference given to local people for employment as labor. First aid box to be provided for initial treatment. Temporary shed will be provided. Accident from spadesand heavy boulder. Conclusion: Conclusion: Conclusion: Conclusion: Conclusion: Conclusion: Preference given to local people for employment as labor. First aid box to be provided for initial treatment. Temporary shed will be provided. Notice board will be placed at expose and rest shed. Accident from spadesand heavy boulder. Conclusion: Conclusio	Con	clusions:				
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Environment Over all positive impact will be done due to proposed mining activity like employment availability of sand. Conclusion: Preference given to local people for employment as labor. 7. Occupational Health & anticipated like health issue due to dust, dehydration, heat expose and rest shed. Accident from spadesand heavy boulder. Conclusion: Notice board will be placed at mining site, and guard will be posted in three shifts to prevent any accident. Conclusion: Preference given to local people for employment as labor. Total Amount: 3,68,000/- Rs 7500/- for Fir Aid Box Rs 9000/- Person Protective Equipm Rs 19400/- Temporary shed Rs 3,30,000 Mobile Toilet Rs 2100/- waste by the conclusion:	6.	Socio-	Negative impact is not	Employment will be given to local	Advise to lease given preference to local	
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Will be done due to proposed mining activity like employment availability of sand. Conclusion: Preference given to local people for employment as labor.		Environment	economic environment.			
Conclusion: Preference given to local people for employment as labor. 7. Occupational Health & Safety Safe			Over all positive impact			
Conclusion: Preference given to local people for employment as labor. Occupational Health & anticipated like health issue due to dust, dehydration, heat expose and rest shed. Accident from spadesand heavy boulder. Accident from spadesand heavy boulder. Accident from spadesand heavy boulder. Conclusion: Iike employment availability of sand.			will be done due to			
Accident from spadesand heavy boulder. Accident from spadesand heavy boulder. Conclusion: Acconclusion: Accident from spadesand heavy boulder. Accident from spadesand heavy boulder. Accident from spadesand heavy boulder. Conclusion: Acconclusion: Ac			proposed mining activity			
Conclusion: Preference given to local people for employment as labor. 7. Occupational Health & anticipated like health issue due to dust, dehydration, heat expose and rest shed. Accident from spadesand heavy boulder. Conclusion: Conclusion: Preference given to local people for employment as labor. First aid and sanitary facility provide to workers. First aid and sanitary facility provide to workers. Total Amount: 3,68,000/- Rs 7500/- for Fir Aid Box Rs 9000/- Person Protective Equipm Rs 19400/- Temporary shed Rs 3,30,000 Mobile Toilet Rs 2100/- waste b			• •			
7. Occupational Health & Safety Safety Safety Sound Independent of the provided in three shifts to prevent any accident. Conclusion: Total Amount: 3,68,000/- Rs 7500/- for Fir Aid Box Rs 9000/- Person Protective Equipm Rs 19400/- Temporary shed Rs 3,30,000 Mobile Toilet Rs 2100/- waste b			availability of sand.			
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Safety issue due to dust, dehydration, heat expose and rest shed. Accident from spadesand heavy boulder. Conclusion: Issue due to dust, dehydration, heat expose and rest shed. Accident from spadesand heavy boulder. Temporary shed will be placed at mining site, and guard will be posted in three shifts to prevent any accident. Rs 7500/- for Fir Aid Box Rs 9000/- Person Protective Equipm Rs 19400/- Temporary shed Rs 3,30,000 Mobile Toilet Rs 2100/- waste b	7.	Occupational	Hazards on site are	First aid box to be provided for	First aid and sanitary facility provide to	Total Amount: Rs
dehydration, heat expose and rest shed. Accident from spadesand heavy boulder. Conclusion: Aid Box Rs 9000/- Person Protective Equipm Rs 19400/- Temporary shed Rs 2100/- waste b		Health &	anticipated like health	initial treatment.	workers.	3,68,000/-
expose and rest shed. Accident from spadesand heavy boulder. mining site, and guard will be posted in three shifts to prevent any accident. Rs 9000/- Person Protective Equipm Rs 19400/- Temporary shed Rs 3,30,000 Mobile Toilet Rs 2100/- waste b		Safety	issue due to dust,	Temporary shed will be provided.		Rs 7500/- for First
Accident from spadesand heavy boulder. Accident from spadesand heavy boulder. posted in three shifts to prevent any accident. Rs 19400/- Temporary shed Rs 3,30,000 Mobile Toilet Rs 2100/- waste b			dehydration, heat	Notice board will be placed at		Aid Box
heavy boulder. any accident. Rs 19400/- Temporary shed Rs 3,30,000 Mobile Toilet Rs 2100/- waste b			expose and rest shed.	mining site, and guard will be		Rs 9000/- Personal
Temporary shed Rs 3,30,000 Mobile Toilet Rs 2100/- waste b			Accident from spadesand	posted in three shifts to prevent		Protective Equipment
Rs 3,30,000 Mobile Toilet Rs 2100/- waste b			heavy boulder.	any accident.		Rs 19400/- For
Mobile Toilet Rs 2100/- waste b						Temporary shed
Rs 2100/- waste b						
Conclusion:						
						Rs 2100/- waste bin
Suggested to provided First aid and sanitary facility to workers.	Con	clusion:				
	Sugg	ested to provid	led First aid and sanitary fac	ility to workers.		

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

S No	Particulars	Amount in Rs				
1.	Environment Monitoring (Air, Water, Soil and Noise)	30,000/-				
2.	Water Sprinkling	90,000/-				
3.	Unpaved/ Haul road maintenance	50,000/-				
4.	Occupational Health & safety	3,68,000/-				
5.	Tarpaulin	45,000/-				
6.	Plantation (along haul and River Bank road)	20,900/-				
7.	Security	10,000/-				
	Total 6,13,900/-					



APPENDIX VIII

(See paragraph - 6) FORM 1M

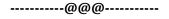
Application for Mining of Minor Minerals under Category 'B2' for less than and Equal to Five Hectare

(I) Ba	(I) Basic Information					
S. No.	Item	:	Details			
1.	Name of the Mining Lease Site	:	Paradi K Bed Sa	and Gh	at	
2.	Location/Site (GPS Co-ordinate)	:	The proposed s	sand q	uarry area is situate	ed in Paradi K village,
			Tehsil- Parseor	ni, Dist	rict- Nagpur (Mah	arashtra).The project
			site falls within the Survey of India Toposheet No. 550/3.			sheet No. 550/3.
			Boundary		Latitude	Longitude
			Point			
			1		21°19'30.05"N	79°05'26.52"E
			2		21°19'19.42"N	79°05'37.31"E
			3		21°19'17.25"N	79°05'34.79"E
			4		21°19'27.99"N	79°05'23.97"E
3.	Size of the Mining Lease Area	:	4.50 Hectare			
4.	Capacity of the Mining Lease	:	12720 Brass/A	nnum		
5.	Period of the Mining Lease	:	One year			
6.	Expected Cost of the Project	:	2.60/- (in crore			
7.	Contact Information	:	District Mining		r (DMO),	
			Nagpur Collecto		_	
			Nagpur (Mahar		•	
			Email: Dmonag	our1@	gmail.com	
	nvironmental Sensitivity		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		D : .	
S. No.	Areas		Name/Ide	ntity	Distance in	
1	Distance of musicat site from a second	4	Variation Discour	D! al	Kilometer	
1.	Distance of project site from near				=	
	rail or road bridge over		E from Project Site.		.	
2.	concerned River, Rivulet, Nallah e Distance from infrastruct		ıl Pipla Halt Rai	lvygy	At a distance of ~ 2.55 Km away	
۷.		ui a	1 -	iway	towards SW from Project Site.	
	Facilities Railway line		,		,	
	National Highway		NH- 47		At a distance of ~ direction from pro	
	State Highway/Highway				At a distance of ~	,
	State Highway/Highway		SH-267			
	Major District Road		_		direction from project site.	
	Any Other Road				_	
	3		-		At a distance of	0.20 1/20
	Electric transmission line pole or to	wei	r Paradi K vill	age	direction from the	
	Canal or check dam or reservoirs	C 01	-		direction from the	project site.
	lake or ponds	o UI	No		_	
	In-take for drinking water pu	ımr	Daradi V vill	200	At a distance of	~ 0.38 Km direction
		4111F	Paradi K vill	age	from the project si	
	house				nom the project s	1101

	Intake for Irrigation canal pumps	Paradi K village	At a distance of \sim 0.38 Km direction from the project site.
3.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value.	No	No such area is located within the studyarea.
4.	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests.	Yes	The quarry area is itself part of water body i.e. River Kanhan, there are number of tributes of River Kanhan is also available in Study Area.
5.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	
6.	Inland, coastal, underground waters	Marine	Or
7.	State, National boundaries	No	None
8.	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas.	No	-
9.	Defense installations	Yes	Cantonment Board Office Kamptee, At a distance of ~14.52 Km towards SE from the Project site.
10.	Densely populated or built-up area distance from nearest human habitation	Paradi K village	At a distance of ~ 0.38 Km direction from the project site.
11.	Areas occupied by sensitive manmade land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - Shankarrao Chavhan School And Collage – School, Khaperkheda, 3.55 km in S of ML) Hospital:-Primary Health Centre, Dahegaon at 4.70 Km, towards NW of ML from query area.
12.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Kanhan.
13.	Densely populated or built-up area distance from nearest human habitation	Paradi K village	At a distance of ~ 0.38 Km direction from the project site.
14.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - Shankarrao Chavhan School And Collage – School, Khaperkheda, 3.55 km in S of ML) Hospital:-Primary Health Centre, Dahegaon at 4.70 Km, towards NW of ML from query
15.	Areas containing important, high quality or scarce resources (ground		area. Quarry mine area is falls in river Kanhan.

	water resources, surface resources,	No	
	forestry, agriculture, fisheries,		
	tourism, minerals)		
16.	Densely populated or built-up area	Paradi K village	At a distance of ~ 0.38 Km
	distance from nearest human habitation	_	direction from the project site.
17.	Areas occupied by sensitive man-		School: - Shankarrao Chavhan School And
	made land uses (hospitals,	Yes	Collage – School, Khaperkheda, 3.55 km in S
	schools, places of worship,		of ML)
	community facilities)		Hospital:-Primary Health Centre, Dahegaon
			at 4.70 Km, towards NW of ML from query
			area.
18.	Areas containing important, high		Quarry mine area is falls in river
	quality or scarce resources (ground		Kanhan.
	water resources, surface resources,	No	
	forestry, agriculture, fisheries,		
	tourism, minerals)		

[&]quot;I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.



Name of Sand Ghat : Paradi K Sand Quarry (153)

Taluka : Parseoni

District : Nagpur (Maharashtra)

40. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of 4.50 Ha on Paradi K adjoining Ghut. No. 153, Tehsil: Parseoni, District: Nagpur (Maharashtra). It has been proposed to collect approximately 12720 Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts onvarious features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 12720 Brass per annum.

41. PURPOSE OF EMP

- Assists project proponent in the preparation of an effective and user friendly activitychart for environment management.
- Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- ➤ Ensure that environment management details is captured and documented at all stages of a project.

S No	Particulars	Impact	Mitigations Measures	Management Plan	Budget
1.	Air	21. Dust generation	21. 1.50 KLD water will be use	<u>Unpaved Roads</u>	Rs 85,000/- Water
	Environment	due to transportation	for regular water spraying of	Water sprinkling will be done for dust	sprinkling
		material by 1 no of	1.10 km distance of road.	suppression for 1.10 km distance from mine	Rs 45000/-
		tractor trolley per	Regularly road leveling and	site.	tarpaulin
		day.	maintenance will be done.	To maintain the uniform speed of the trucks/tippers. Leveling will be done.	P
			Loading material will be covered with tarpaulin and overloading	Paved Roads	Rs 35000/- is
			will be avoided.	The roads will be maintained regularly.	proposed for baseline
		22. In mining		Limited speed will be adopted by transport	data for one time.
		activities, the only	22. PUC certified vehicles will	vehicles.	
		source of gaseous	be used for transportation and	The loaded vehicles will be covered with	
		emissions is from the	rununder limited speed. Regular	tarpaulin.	
		engines of transport	maintenance will be done of vehicles.	Transportation vehicles	
		vehicles.	venicies.	The vehicles will be kept at good condition by regular servicing and maintenance.	
				PUC certified vehicles will be used.	
				Over loading will be avoided.	
				Air monitoring will be done to check the	
				criteria of air pollutants.	

Conclusion:

In this proposed mining project the suspended particulates from unpaved road and emission from transportation vehicle's engine are the source air pollution. The proposed mining operations are not anticipated to raise the concentration of the pollutants beyond prescribed limits. However, the measures are suggested to mitigate any harmful impacts of pollutants like planning transportation routes of mined material so as to reach the nearest paved roads by shortest route and avoid over speed and over loading.

2.	Noise	1 no of tractor trolleyand	Noise generated by the transport	Vehicle will be maintained in good condition	Rs 35000/- is
	Environment	a tractor for water	vehicles will be intermittent and	to avoid unnecessary noise. Road leveling	proposed for baseline
		sprinkling will be source	for very short time, it will notcause	will be done time to time.	data for one time.
		of noise pollution. The	much adverse impact. Vehicles will		
		impact of noise pollution	be maintained to avoid		
		will be for very short	unnecessary noise.		
		time. No machinery will	Periodical monitoring of noise will		
		be use for mining	be done to adopt corrective actions		
		operation.	wherever needed.		

Conclusions:

In conclusion, the main source of noise for project will be transportation. Measures are suggested to minimize the noise pollution limited speed of vehicles and regular maintenance of vehicles and approach road.

3.	Water	Ground water: Ground	Mining activity will not intersect to	Worker to be advised for use the waste bin	Mobile	toilet:	Rs
	Environment	water will not be	ground water.	and Mobile toilet.	3,30,000	/-	
		intersected during	Water requirement of 0.80 KLD for		Waste bir	n: Rs 750	1/-
		mining work.	domestic and 1.50 KLD for water				
			sprinkling will be met through				
		Surface water: no	water tanker. Low water demand				
		impact anticipated for	will not be affected to ground				
		surface water.	water.				
			Mobile Toilet and Waste bins will				
			be provided for domestic waste.				
			Mining activity will be done in dry				
			bed only.				

Conclusions:

In this mining project in the entire lease period the ground water table will not be intersected hence there will be no impact on the ground water environment and any hazards waste will not be met to surface water. Advised to workers use the dust bin to dispose any domestic solid waste.

4.	Land Environment	Road will be degraded due to transportation. River course erosion due to mined out sand from river.	Regular water sprinkling will be done. Road of 1.10 km length will be maintained in good condition by using local earth material. Mining activity will be restricted to maximum depth of 0.8 m as per GSDA survey. Miningactivity will not done near the river banks. Mining activity will be donein dry bed only. Monitoring will be done to meet the criteria of parameters as per norms of CPCB/ SPCB.		Rs 35500/- Road maintenance
Sug	nclusions: gested to worke I nearby land sur	• •	manner only use the dustbin and mol	oile toilet to prevent disposal of solid waste and	waste water in theriver
5.	Biological Environment	No impact anticipated on biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on near by crops.	3 tractor trips per day will be use for transportation of sand. So anticipated suspended particulates are in negligible. Protective measures like water spraying on unpaved road, leveling of unpaved road and sand covered after loading will be used to prevent.	Water spraying on haul road and time to time maintenance will be done to avoid dust generation.	Rs 85000/- water sprinkling

		Pit developed due to				
		mining may be				
		dangerous for animals.				
Con	clusions:					
Not a	any impact is anti	icipated on nearby fauna and F	lora due to proposed mining activity. Sug	gested to lease adopt the mitigation measures for du	ist suppression.	
6.	Socio-	Negative impact is not	Employment will be given to local	Advise to lease given preference to local		
	Economic	anticipated on socio-	people for unskilled labor.	people.		
	Environment	economic environment.				
		Over all positive impact				
		will be done due to				
		proposed mining activity				
		like employment				
		availability of sand.				
Con	Conclusion:					
Pref	ference given t	o local people for employr	nent as labor.			
7.	Occupational	Hazards on site are	First aid box to be provided for	First aid and sanitary facility provide to	Total Amount: Rs	
	Health &	anticipated like health	initial treatment.	workers.	3,58,000/-	
	Safety	issue due to dust,	Temporary shed will be provided.		Rs 7500/- for First	
		dehydration, heat	Notice board will be placed at		Aid Box	
		expose and rest shed.	mining site, and guard will be		Rs 9000/- Personal	
		Accident from spadesand	posted in three shifts to prevent		Protective Equipment	
		heavy boulder.	any accident.		Rs 19400/- For	
					Temporary shed	
					Rs 3,20,000/-	
					Mobile Toilet	
					Rs 2100/- waste bin	
Con	clusion:					
Sugg	gested to provid	led First aid and sanitary fac	ility to workers.			

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

S No	Particulars	Amount in Rs			
1.	Environment Monitoring (Air, Water, Soil and Noise)	30,000/-			
2.	Water Sprinkling	85,000/-			
3.	Unpaved/ Haul road maintenance	50,000/-			
4.	Occupational Health & safety	3,58,000/-			
5.	Tarpaulin	45,000/-			
6.	Plantation (along haul and River Bank road)	20,100/-			
7.	Security	10,000/-			
	Total 5,98,100/-				



APPENDIX VIII FORM 1M

Application for Mining of Minor Minerals under Category 'B2' for less than and Equal to Five Hectare

(I) BASIC INFORMATION

(i) Name of the Mining Lease site: Juni Kamptee(Gadeghat)-B Sand Ghat over an extent of 2.00 ha. at Gut No. 230 & 241/2, Village Juni Kamptee (Gadeghat), Tehsil Parshivni, District-Nagpur, Maharashtra.

(ii) Location / site (GPS Co-ordinates):

Points	Longitude	Latitude
BP-1	21°13'45.61"N	79°12'26.32"E
BP-2	21°13'43.54"N	79°12'26.38"E
BP-3	21°13'43.93"N	79°12'15.77"E
BP-4	21°13'46.08"N	79°12'15.92"E

(iii) Size of the Mining Lease (Hectare): 2.00

(iv) Capacity of Mining Lease (TPA): 5653Brass

(v) Period of Mining Lease: 01 years

(vi) Expected cost of the Project: INR 0.56 Cr

(vii) Contact Information: District Mining Officer, Nagpur

(II) ENVIRONMENTAL SENSITIVITY

S. N	ITEMS	DETAILS
1.	Distance of project site from nearest rail or road bridge over the concerned River, Rivulet, Nalla etc.	
2.	Distance from infrastructural facilities	• Kanhan railway station at a distance of ~3.14

	Railway line	kms towards East.
	i nanway me	 NH 44 at a distance of ~3.75km towards East
	Marta al III de	
	National Highway	No SH present within 2km.
	State Highway	 Approach road at distance of 237m towards
	Major District Road	North which connects to NH44 towards East.
	Any Other Road	• NA
	 Electric transmission line pole or tower Canal or check dam or reservoirs or lake or ponds In-take for drinking water pump house 	 Nil Juna Kamptee village, 2.0km, North
	 Intake for Irrigation canal pumps 	
3.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	
4.	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	Kanhan River bed
5.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, overwintering, migration	
6.	Inland, coastal, marine or underground waters	Kanhan River Bed
7.	State, National boundaries	Nil
8.	Routes or facilities used by the public for access to recreation or other tourist, Pilgrim areas	NH 44 at a distance of ~3.75km towards East
9.	Defense installations	Nil
10.	Densely populated or built-up area, distance from nearest human habitation	Juna Kamptee village,2.0km, North Kamptee village,1.00km, South Kanhan village,1.80km, East
11.	Areas occupied by sensitive man-made land uses (Hospitals, schools, places of worship, community facilities)	Kanhan PHC, 2.88km, East Gadeghat Amma Ki Dargah,0.81km, West Juna Kamptee village,2.0km, North Kamptee village,1.00km, South Kanhan village,1.80km, East
12.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	Kanhan River (this is the case of river sandmining)
13.	Areas already subjected to pollution or environmental damage. (Those where existing legal environmental standards are exceeded)	or environmental damage.
14.		The mine lease area falls in Seismic Zone II (Least Active), according to the Indian Standard Seismic Zoning

	environmental problems	Мар.
	(Earthquakes, subsidence, landslides,	
	erosion, flooding or extreme or adverse	
	climatic conditions)	
15.	Is proposed mining site located over or near fissure / fracture for ground water recharge	This is River sand mining project.
	Whether the proposal involves approval or	No
	clearance under the following Regulations	
	or Acts, namely: -	
	(a) The Forest (Conservation) Act, 1980;	
16.	(b) The Wildlife (Protection) Act, 1972;	
	(c) The Coastal Regulation	
	Zone Notification, 2011.	
	If yes, details of the same and their	
	status tobe given.	
17.	Forest land involved (hectares)	No forest land involved
	Whether there is any litigation pending	No litigation pending against the project
	againstthe project and/or land in which the	and/or land in any court
	project is propose to be set up?	
18.	(a) Name of the Court	
	(b) Case No.	
	Orders or directions of the Court, if any, and	
	its relevance with the proposed project.	

"I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.

Name of Sand Ghat :Juni Kamptee (Gadeghat)-B Sand Ghat, Gut No. 230 & 241/2

Taluka : Parshivni

District : Nagpur (Maharashtra)

1. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is Juni Kamptee (Gadeghat)-B Sand Ghat over an extent of 2.00 ha. at Gut No. 230 & 241/2, Village Juni Kamptee (Gadeghat), Tehsil Parshivni District Nagpur, Maharashtra. It has been proposed to collect approximately 5653 Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts on various features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 5653 Brass per annum.

2. PURPOSE OF EMP

- Assists project proponent in the preparation of an effective and user-friendly activitychart for environment management.
- Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- ➤ Ensure that environment management details is captured and documented at all stages of a projec

Environment Management plan matrix is given in Table no.1.

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
1.	Air	1. Dust generation due to	1. 1.0 KLD water will be use	<u>Unpaved Roads</u>	Rs.25,000/- Water
	Environment	transportation material	for regular water	Water sprinkling will be done	sprinkling
1.				 	
			trolleys over loading	avoided. Air monitoring will be	
			should be controlled	avoided. Air monitoring will be done to check the criteria of	
			along with speed limit	air pollutants.	
			(1Brass /tractor trolley)	an ponutants.	

In this proposed mining project the suspended particulates from unpaved road and emission from transportation vehicle's engine are th source air pollution. The proposed mining operations are not anticipated to raise the concentration of the pollutants beyond prescribed limits. However, the measuresare suggested to mitigate any harmful impacts of pollutants like planning transportation routes of mined materials as to reach the nearest paved roads by shortest route and avoid over speed and over loading. 2 Noise								
	Conclusions: In conclusion, the main source of noise for project will be transportation. Measures are suggested to minimize the noise pollution limited speed of vehicles and regular maintenance of vehicles and approach road.							
3.	Water Environment	Ground water: Ground water will not be intersected during mining work. No waste water will be	Mining activity will not intersect toground water. Water requirement of 0.50 KLD for domestic and 1.0	Mining is stopped during the monsoon season and at the time of floods. This helps in replenishment of sand in the	Mobile toilet: Rs. 1,20,000/- Waste bin: Rs 350/-			

		generated from the mining	KLD for water sprinkling will	riverbed.	
		-	-		
		activity of minor minerals as	be met through water tanker. Low water demand	Worker to be advised for use the	
		the project only involves		waste bin and Mobile toilets.	
		lifting of sand from river	will not be affected to		
		quarry in dry state.	ground water.		
		S	Mobile Toilets will be		
		Surface water: no impact	provided for waste water		
		anticipated for surface	and Domestic waste to be		
		water.	collected in dust bins and		
			handed over to the local		
			authority for disposal.		
			Mining activity will be done		
			in dry bed only.		
		rironment and any hazards was		ot be intersected hence there will ater. Advised to workers use the du	•
4	Land	Road will be degraded due	Regular water sprinkling will	Mining activity will be done as	Rs. 18,650/-
	Environment	to transportation.	be done. Road of 1.10 km	per Rule 23 of MMME (D&R)	Roadmaintenance
		River course erosion due to	length will be maintained in	Rule 2013 and MaharashtraSand	
		mined out sand from river.	good condition by using local	policy 03.09.2019.	
			earth material.	Mining activity will be done up	
			Mining activity will be done in	to 0.40 m depth and dry bed	
			20000 sq m area sand from	only. Mining will not be done	
			river will be restricted to	near river banks.	
			maximum depth of 0.40 m		
			maximum depth of 0.40 m as per GSDA survey. Mining		
			_		
			as per GSDA survey. Mining		

			bed only.		
			Monitoring will be done to		
			meet the criteria of		
			parameters as per norms of		
			CPCB/ SPCB.		
	Conclusions:				
	Suggested to worl	kers working with prescribed ma	anner only use the dustbin and m	nobile toilet to prevent disposal of so	lid waste and waste
	water in theriver	and nearby land surface			
5	Biological Environment	No impact anticipated on biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on nearby crops. Pit developed due to mining may be dangerous for animals	1 tractor trips per day will be use for transportation of sand. So anticipated suspended particulates are in negligible. Protective measures like water spraying on unpaved road, leveling of unpaved road and sand covered after loading will be used to prevent.	Water spraying on haul road and time to time maintenance will be done to avoid dustgeneration. Greenbelt Development and Bio-Diversity Preservation Plantation activities will be carried out at the bank of the river and along the haul roads. This activity will help for maintaining ecology and environment of the area.	Rs25,000/- water sprinkling
	Conclusions:		<u>I</u>	<u> </u>	<u> </u>
	Not any impact is	anticipated on nearby fauna and	Flora due to proposed mining ac	ctivity. Suggested to lease adopt the r	nitigation measures
	for dust suppressi	ion.			
6.	Socio- Economic	Negative impact is not anticipated on socio-	Employment will be given to localpeople for unskilled and	Preference to be given to local people.	
	Environment	economic environment. Over	skilled labors.	poop.c.	
		all positive impact will be			
		done due to proposed			
		mining activity like			
		employment, availability of			
		1 2 7	1	l	1

		sand.			
	Conclusion:		<u> </u>		
	Preference given t	to local people for employment a	s labor.		
7	Occupational Health & Safety	Hazards on site are anticipated like health issue due to dust, dehydration, heat expose and rest shed. Accident from spades and heavy boulder.	First aid box to be provided for initial treatment. Temporary shed will be provided. Notice board will be placed at mining site, and guard will be posted in three shifts to prevent any accident.	First aid and sanitary facility provide to workers.	Total Amount: Rs 132850/- Rs 2500/- for First Aid Box Rs 2000/- Personal Protective Equipment Rs 8000/- For Temporary shed Rs120000/- Mobile Toilet Rs 350/- waste bin
	Conclusion: Suggested to prov	rided First aid and sanitary facilit	y to workers.		
8.	Waste/ Overburden	No waste will be generated from mining of mineral. Overburden or top soil is absent in the proposed river sand project.	No waste/ overburden will be generated from the river sand mining project, thus not any mitigation measure or management plan is adopted.	No waste/ overburden will be generated, thus management plan does not required for Waste/ overburden. Domestic waste generated to be collected in dust bins and handed over to the local authority for disposal.	
	Conclusion: Waste is not antic	' ipated in River sand mining activ	vity as well as top soil and overbu	urden also absent in the proposed riv	er sand project.

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures. Fund provision for EMP is given in below.

Table 2: Environmental Management Plan Budget

S No	Particulars	Amount			
		in Rs			
1.	Environment Monitoring (Air, Water, Soil and Noise)	25500/-			
2.	Water Sprinkling	32,850/-			
3.	Unpaved/ Haul Road maintenance	29,150/-			
4.	Occupational Health & safety	1,00,000/-			
5.	Tarpaulin	8000/-			
6.	Plantation	15000/-			
7.	Security	10000/-			
	Total 220500/-				

APPENDIX VIII

(See paragraph - 6) FORM 1M

Application for Mining of Minor Minerals under Category 'B2' for less than and Equal to Five Hectare

(I) Ba	(I) Basic Information							
S. No.	Item	:	D	etails				
1.	Name of the Mining Lease Site	:	G	Gosewadi A Bed Sand Ghat				
2.	Location/Site (GPS Co-ordinate)	:	T	he proposed sa	and qu	arry area is situate	d in Gosewadi village,	
			T	ehsil- Saoner,	Distr	ict- Nagpur (Maha	arashtra).The project	
			si	te falls within	the S	urvey of India Topo	sheet No550/3.	
				Boundary		Latitude	Longitude	
				Point				
				1		21°21'52.95"N	79°04'41.04"E	
				2		21°21'50.52"N	79°04'43.92"E	
				3		21°21'39.17"N	79°04'34.80"E	
				5		21°21'41.82"N	79°04'32.30"E	
2	Cincofalo Minimo I and Anno		4	_		21°21'46.69"N	79°04'37.28"E	
3.	Size of the Mining Lease Area Capacity of the Mining Lease	:	4.20 Hectare					
5.	Period of the Mining Lease	:	7420 Brass/Annum One year					
6.	Expected Cost of the Project	:		.61/- (in crores	د)			
7.	Contact Information	:	District Mining Officer (DMO),					
/.	Contact information	•	Nagpur Collectorate,					
			Nagpur (Maharashtra)					
				mail: <u>Dmonagp</u>				
(II) E	nvironmental Sensitivity							
S. No.	Areas			Name/Ider	ıtity	Distance in	1	
						Kilometer	/Details	
1.	Distance of project site from near			Kanhan River B	ridge	At a distance of \sim	•	
	rail or road bridge over		•			towards NW from	Project Site.	
	concerned River, Rivulet, Nallah e							
2.	Distance from infrastruct	ura	ıl	Pipla Halt Rail	way	At a distance of ~	-	
	Facilities Railway line			Station		towards WSW from	·	
	National Highway			NH- 47		At a distance of ~		
						direction from pro	•	
	State Highway/Highway			SH-249		At a distance of ~ direction from pro		
	Major District Road				,			
	Any Other Road			-		-		
	Electric transmission line pole or to	wer		Gosewadi vill	age	At a distance of from the project si	~ 0.57Km direction ite.	
	Canal or check dam or reservoir	S OI	-	NT.				
	lake or ponds			No		-		
	In-take for drinking water pu	ımı)	Gosewadi vill	age	At a distance of		
	house					direction from the	project site.	
						on Arch Dosign and Er		

	Intake for Irrigation canal pumps	Gosewadi village	At a distance of ~0.57Km Km direction from the project site.
3.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value.	No	No such area is located within the studyarea.
4.	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests.	Yes	The quarry area is itself part of water body i.e. River Kanhan, there are number of tributes of River Kanhan is also available in Study Area.
5.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	
6.	Inland, coastal, underground waters	Marine	Or
7.	State, National boundaries	No	None
8.	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas.	No	-
9.	Defense installations	No	-
10.	Densely populated or built-up area distance from nearest human habitation	Gosewadi village	At a distance of $\sim 0.57 \text{Km}$ direction from the project site.
11.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - Zilla Parishad Primary School, 0.75 km in SW of ML) Hospital:- Primary Health Centre, Dahegaon at 0.40 Km, towards NE of ML from query area.
12.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Kanhan.
13.	Densely populated or built-up area distance from nearest human habitation	Gosewadi village	At a distance of $\sim 0.57 \text{Km}$ direction from the project site.
14.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - Zilla Parishad Primary School, 0.75 km in SW of ML) Hospital:- Primary Health Centre, Dahegaon at 0.40 Km, towards NE of ML from query area.
15.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Kanhan.
16.	Densely populated or built-up area distance from nearest human habitation	Gosewadi village	At a distance of $\sim 0.57 \text{Km}$ direction from the project site.

17.	Areas occupied by sensitive man-		School: - Zilla Parishad Primary School,
	made land uses (hospitals,	Yes	0.75 km in SW of ML)
	schools, places of worship,		Hospital:-Primary Health Centre, Dahegaon
	community facilities)		at 0.40 Km, towards NE of ML from query area.
18.	Areas containing important, high		Quarry mine area is falls in river
	quality or scarce resources (ground		Kanhan.
	water resources, surface resources,	No	
	forestry, agriculture, fisheries,		
	tourism, minerals)		

[&]quot;I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.



Name of Sand Ghat : Gosewadi A Sand Quarry (285,286 & 287 (Part))

Taluka : Saoner

District : Nagpur (Maharashtra)

44. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of 4.20 Ha on Gosewadi A adjoining Ghut. No. 285,286 & 287 (Part), Tehsil: Saoner, District: Nagpur (Maharashtra). It has been proposed to collect approximately 7420 Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts onvarious features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 7420 Brass per annum.

45. PURPOSE OF EMP

- Assists project proponent in the preparation of an effective and user friendly activitychart for environment management.
- Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- ➤ Ensure that environment management details is captured and documented at all stages of a project.

S No	Particulars	Impact	Mitigations Measures	Management Plan	Budget
1.	Air	23. Dust generation	23. 1.40 KLD water will be use	<u>Unpaved Roads</u>	Rs 48,000/- Water
	Environment	due to transportation	for regular water spraying of	Water sprinkling will be done for dust	sprinkling
		material by 1 no of	1.10 km distance of road.	suppression for 1.10 km distance from mine	Do 21000/
		tractor trolley per	Regularly road leveling and	site.	Rs 31000/- tarpaulin
		day.	maintenance will be done.	To maintain the uniform speed of the	tai pauliii
			Loading material will be covered	trucks/tippers. Leveling will be done.	Rs 30000/- is
			with tarpaulin and overloading	Paved Roads The reads will be maintained regularly	proposed for baseline
			will be avoided.	The roads will be maintained regularly. Limited speed will be adopted by transport	data for one time.
		24. In mining	24. PUC certified vehicles will	vehicles.	
		activities, the only	be used for transportation and	The loaded vehicles will be covered with	
		source of gaseous emissions is from the	rununder limited speed. Regular	tarpaulin.	
		engines of transport	maintenance will be done of	Transportation vehicles	
		vehicles.	vehicles.	The vehicles will be kept at good condition	
		Vennereen		by regular servicing and maintenance.	
				PUC certified vehicles will be used.	
				Over loading will be avoided.	
				Air monitoring will be done to check the	
				criteria of air pollutants.	

Conclusion:

In this proposed mining project the suspended particulates from unpaved road and emission from transportation vehicle's engine are the source air pollution. The proposed mining operations are not anticipated to raise the concentration of the pollutants beyond prescribed limits. However, the measures are suggested to mitigate any harmful impacts of pollutants like planning transportation routes of mined material so as to reach the nearest paved roads by shortest route and avoid over speed and over loading.

2.	Noise	1 no of tractor trolleyand	Noise generated by the transport	Vehicle will be maintained in good condition	Rs 25000/- is
	Environment	a tractor for water	vehicles will be intermittent and	to avoid unnecessary noise. Road leveling	proposed for baseline
		sprinkling will be source	for very short time, it will notcause	will be done time to time.	data for one time
		of noise pollution. The	much adverse impact. Vehicles will		
		impact of noise pollution	be maintained to avoid		
		will be for very short	unnecessary noise.		
		time. No machinery will	Periodical monitoring of noise will		
		be use for mining	be done to adopt corrective actions		
		operation.	wherever needed.		

Conclusions:

In conclusion, the main source of noise for project will be transportation. Measures are suggested to minimize the noise pollution limited speed of vehicles and regular maintenance of vehicles and approach road.

3.	Water	Ground water: Ground	Mining activity will not intersect to	Worker to be advised for use the waste bin	Mobile	toilet:	Rs
	Environment	water will not be	ground water.	and Mobile toilet.	1,40,000	/-	
		intersected during	Water requirement of 0.80 KLD for		Waste bir	n: Rs 750	1/-
		mining work.	domestic and 1.40 KLD for water				
			sprinkling will be met through				
		Surface water: no	water tanker. Low water demand				
		impact anticipated for	will not be affected to ground				
		surface water.	water.				
			Mobile Toilet and Waste bins will				
			be provided for domestic waste.				
			Mining activity will be done in dry				
			bed only.				

Conclusions:

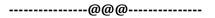
In this mining project in the entire lease period the ground water table will not be intersected hence there will be no impact on the ground water environment and any hazards waste will not be met to surface water. Advised to workers use the dust bin to dispose any domestic solid waste.

4.	Land Environment	Road will be degraded due to transportation. River course erosion due to mined out sand from river.	Regular water sprinkling will be done. Road of 1.10 km length will be maintained in good condition by using local earth material. Mining activity will be restricted to maximum depth of 0.5 m as per GSDA survey. Miningactivity will not done near the river banks. Mining activity will be donein dry bed only. Monitoring will be done to meet the criteria of parameters as per norms of CPCB/ SPCB.		Rs 25500/- Road maintenance
Sug	nclusions: gested to worke I nearby land sur	- ·	manner only use the dustbin and mol	oile toilet to prevent disposal of solid waste and	waste water in theriver
5.	Biological Environment	No impact anticipated on biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on near by crops.		Water spraying on haul road and time to time maintenance will be done to avoid dust generation.	Rs 48000/- water sprinkling

		Pit developed due to			
		mining may be			
		dangerous for animals.			
Con	clusions:				
Not	any impact is anti	icipated on nearby fauna and F	lora due to proposed mining activity. Sug	gested to lease adopt the mitigation measures for du	ist suppression.
6.	Socio-	Negative impact is not	Employment will be given to local	Advise to lease given preference to local	
	Economic	anticipated on socio-	people for unskilled labor.	people.	
	Environment	economic environment.			
		Over all positive impact			
		will be done due to			
		proposed mining activity			
		like employment			
		availability of sand.			
Con	clusion:				
Pre	ference given t	o local people for employr	nent as labor.		
7.	Occupational	Hazards on site are	First aid box to be provided for	First aid and sanitary facility provide to	Total Amount: Rs
	Health &	anticipated like health	initial treatment.	workers.	1,40,000/-
	Safety	issue due to dust,	Temporary shed will be provided.		Rs 2500/- for First
		dehydration, heat	Notice board will be placed at		Aid Box
		expose and rest shed.	mining site, and guard will be		Rs 4000/- Personal
		Accident from spadesand	posted in three shifts to prevent		Protective Equipment
		heavy boulder.	any accident.		Rs 10000/- For
					Temporary shed
					Rs 1,32,750/-
					Mobile Toilet
					Rs 750/- waste bin
	clusion:				
Sug	gested to provid	led First aid and sanitary fac	ility to workers.		

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

S No	Particulars	Amount in Rs
1.	Environment Monitoring (Air, Water, Soil and Noise)	30000/-
2.	Water Sprinkling	48000/-
3.	Unpaved/ Haul road maintenance	30000/-
4.	Occupational Health & safety	165500/-
5.	Tarpaulin	31000/-
6.	Plantation (along haul and River Bank road)	16000/-
7.	Security	8000/-
	Total	3,28,500/-



APPENDIX VIII

(See paragraph - 6) FORM 1M

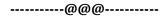
Application for Mining of Minor Minerals under Category 'B2' for less than and Equal to Five Hectare

(I) Ba	(I) Basic Information							
S. No.	Item	:	D	Details				
1.	Name of the Mining Lease Site	:	В	Bawangaon B Bed Sand Ghat				
2.	Location/Site (GPS Co-ordinate)	:	T	he proposed	sand	quarry area is sit	uated in Bawangaon	
			vi	llage, Tehsil-	Saone	er, District- Nagpu	r (Maharashtra).The	
			-	•	s wit	hin the Survey of	India Toposheet No.	
			5.	50/3.				
				Boundary		Latitude	Longitude	
				Point				
				1		21°25'32.50"N	78°59'05.47"E	
				2		21°25'22.91"N	79°59'17.65"E	
				3		21°25'21.36"N	79°59'16.57"E	
				4	-	21°25'30.49"N	79°59'04.67"E	
3.	Size of the Mining Lease Area	:		70Hectare				
4.	Capacity of the Mining Lease	:		724 Brass/Anr	num			
5.	Period of the Mining Lease	:		ne year				
6.	Expected Cost of the Project	:		17/- (in crores		(5140)		
7.	Contact Information	:		istrict Mining		r (DMO),		
				agpur Collecto		`		
				agpur (Mahara		•		
(II) E	nvinon montal Consitivity		E.	Email: <u>Dmonagpur 1@gmail.com</u>				
S. No.	nvironmental Sensitivity Areas			Name/Ider	.+i+	Distance in	•	
3. NO.	Aleas			Name/ luei	itity	Kilometer		
1.	Distance of project site from near	rest	- k	Kanhan River B	ridge	At a distance of ~		
1.	rail or road bridge over				rrage	towards SE from F	-	
	concerned River, Rivulet, Nallah e							
2.	Distance from infrastruct		l	Saoner Railw	av	At a distance of ~ 7.29 Km away		
	Facilities Railway line		Station		J	towards SW from Project Site.		
	National Highway			NH- 249		At a distance of ~	0.48 Km in SE	
						direction from pro	oject site.	
	State Highway/Highway					-	,	
				-				
	Major District Road			-		-		
	Any Other Road							
	Electric transmission line pole or to	we	r	Bawangao	n	At a distance of	~ 1.65Km direction	
				village		from the project s	ite.	
	Canal or check dam or reservoirs	S 01	-					
	lake or ponds			No		-		
	In-take for drinking water pu	ımı)	Bawangao	n	At a distance of	~ 1.65Km direction	
	house			village		from the project s	ite.	
	house			village		from the project s	ite.	

	Intake for Irrigation canal pumps	Bawangaon village	At a distance of ~1.65Km direction from the project site.
3.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value.	No	No such area is located within the studyarea.
4.	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests.	Yes	The quarry area is itself part of water body i.e. River Kanhan, there are number of tributes of River Kanhan is also available in Study Area.
5.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	
6.	Inland, coastal, underground waters	Marine	Or
7.	State, National boundaries	No	None
8.	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas.	No	-
9.	Defense installations	No	-
10.	Densely populated or built-up area distance from nearest human habitation	Bawangaon village	At a distance of $\sim 1.65 \text{Km}$ direction from the project site.
11.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - Jawahar High School & Junior College - High school Khapa, 0.77 km in SW of ML) Hospital:- Primary Health Centre, Khapa at 0.91 Km, towards SW of ML from query area.
12.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Kanhan.
13.	Densely populated or built-up area distance from nearest human habitation	Bawangaon village	At a distance of $\sim 1.65 \text{Km}$ direction from the project site.
14.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - Jawahar High School & Junior College - High school Khapa, 0.77 km in SW of ML) Hospital:- Primary Health Centre, Khapa at 0.91 Km, towards SW of ML from query area.
15.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Kanhan.
16.	Densely populated or built-up area	Bawangaon	At a distance of ~ 1.65Km direction

	distance from nearest human habitation	village	from the project site.
17.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - Jawahar High School & Junior College - High school Khapa, 0.77 km in SW of ML) Hospital:- Primary Health Centre, Khapa at 0.91 Km, towards SW of ML from query area.
18.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Kanhan.

[&]quot;I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.



Name of Sand Ghat : Bawangaon B Sand Quarry (203,204,208)

Taluka : Saoner

District : Nagpur (Maharashtra)

48. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of 2.70 Ha on Bawangaon adjoining Ghut. No. 203,204,208, Tehsil: Saoner, District: Nagpur (Maharashtra). It has been proposed to collect approximately 5724 Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts onvarious features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 5724 Brass per annum.

49. PURPOSE OF EMP

- Assists project proponent in the preparation of an effective and user friendly activitychart for environment management.
- Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- ➤ Ensure that environment management details is captured and documented at all stages of a project.

50. MATRIX FOR EMP

S No Particulars	Impact	Mitigations Measures	Management Plan	Budget
S No Particulars 1. Air Environment	Impact 25. Dust generation	25. 0.80 KLD water will be use for regular water spraying of 1.10 km distance of road. Regularly road leveling and maintenance will be done. Loading material will be covered with tarpaulin and overloading will be avoided.	Unpaved Roads Water sprinkling will be done for dust suppression for 1.10 km distance from mine site. To maintain the uniform speed of the trucks/tippers. Leveling will be done. Paved Roads The roads will be maintained regularly. Limited speed will be adopted by transport vehicles. The loaded vehicles will be covered with tarpaulin. Transportation vehicles The vehicles will be kept at good condition by regular servicing and maintenance.	Rs 52,000/- Water sprinkling Rs 33000/- tarpaulin Rs 30000/- is proposed for baseline data for one time.
	activities, the only source of gaseous emissions is from the engines of transport	be used for transportation and rununder limited speed. Regular maintenance will be done of	vehicles. The loaded vehicles will be covered with tarpaulin. Transportation vehicles The vehicles will be kept at good condition	

Conclusion:

In this proposed mining project the suspended particulates from unpaved road and emission from transportation vehicle's engine are the source air pollution. The proposed mining operations are not anticipated to raise the concentration of the pollutants beyond prescribed limits. However, the measures are suggested to mitigate any harmful impacts of pollutants like planning transportation routes of mined material so as to reach the nearest paved roads by shortest route and avoid over speed and over loading.

2.	Noise	1 no of tractor trolleyand	Noise generated by the transport	Vehicle will be maintained in good condition	Rs 25000/- is
	Environment	a tractor for water	vehicles will be intermittent and	to avoid unnecessary noise. Road leveling	proposed for baseline
		sprinkling will be source	for very short time, it will notcause	will be done time to time.	data for one time
		of noise pollution. The	much adverse impact. Vehicles will		
		impact of noise pollution	be maintained to avoid		
		will be for very short	unnecessary noise.		
		time. No machinery will	Periodical monitoring of noise will		
		be use for mining	be done to adopt corrective actions		
		operation.	wherever needed.		

Conclusions:

In conclusion, the main source of noise for project will be transportation. Measures are suggested to minimize the noise pollution limited speed of vehicles and regular maintenance of vehicles and approach road.

3.	Water	Ground water: Ground	Mining activity will not intersect to	Worker to be advised for use the waste bin	Mobile	toilet:	Rs
	Environment	water will not be	ground water.	and Mobile toilet.	1,60,000/	-	
		intersected during	Water requirement of 0.60 KLD for		Waste bin	: Rs 750	/-
		mining work.	domestic and 0.80 KLD for water				
			sprinkling will be met through				
		Surface water: no	water tanker. Low water demand				
		impact anticipated for	will not be affected to ground				
		surface water.	water.				
			Mobile Toilet and Waste bins will				
			be provided for domestic waste.				
			Mining activity will be done in dry				
			bed only.				

Conclusions:

In this mining project in the entire lease period the ground water table will not be intersected hence there will be no impact on the ground water environment and any hazards waste will not be met to surface water. Advised to workers use the dust bin to dispose any domestic solid waste.

4.	Land Environment	Road will be degraded due to transportation. River course erosion due to mined out sand from river.	Regular water sprinkling will be done. Road of 1.10 km length will be maintained in good condition by using local earth material. Mining activity will be restricted to maximum depth of 0.6 m as per GSDA survey. Miningactivity will not done near the river banks. Mining activity will be donein dry bed only. Monitoring will be done to meet the criteria of parameters as per norms of CPCB/ SPCB.		Rs 25500/- Road maintenance
	iclusions:				
_	gested to worke I nearby land sur		manner only use the dustbin and mol	bile toilet to prevent disposal of solid waste and	waste water in theriver
5.	Biological Environment		anticipated suspended	Water spraying on haul road and time to time maintenance will be done to avoid dust generation.	Rs 52000/- water sprinkling

		Pit developed due to mining may be dangerous for animals.						
	<u>Conclusions:</u> Not any impact is anticipated on nearby fauna and Flora due to proposed mining activity. Suggested to lease adopt the mitigation measures for du							
6.	Socio- Economic Environment	Negative impact is not anticipated on socio-economic environment. Over all positive impact will be done due to proposed mining activity like employment availability of sand.	Employment will be given to local people for unskilled labor.	Advise to lease given preference to local people.				
	<u>clusion:</u> ference given t	o local people for employr	nent as labor.					
7.	Occupational Health & Safety	Hazards on site are anticipated like health issue due to dust, dehydration, heat expose and rest shed. Accident from spadesand heavy boulder.	First aid box to be provided for initial treatment. Temporary shed will be provided. Notice board will be placed at mining site, and guard will be posted in three shifts to prevent any accident.	First aid and sanitary facility provide to workers.	Total Amount: Rs 1,60,000/- Rs 2500/- for First Aid Box Rs 4000/- Personal Protective Equipment Rs 10000/- For Temporary shed Rs 1,32,750/- Mobile Toilet Rs 750/- waste bin			
	clusion: gested to provid	ed First aid and sanitary fac	ility to workers.					

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

S No	Particulars	Amount in Rs			
1.	Environment Monitoring (Air, Water, Soil and Noise)	30000/-			
2.	Water Sprinkling	52000/-			
3.	Unpaved/ Haul road maintenance	30000/-			
4.	Occupational Health & safety	185500/-			
5.	Tarpaulin	31000/-			
6.	Plantation (along haul and River Bank road)	16000/-			
7.	Security	8000/-			
	Total 3,52,500/-				



APPENDIX VIII

(See paragraph - 6) FORM 1M

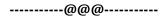
Application for Mining of Minor Minerals under Category 'B2' for less than and Equal to Five Hectare

(I) Ba	sic Information				
S. No.	Item	:	Details		
1.	Name of the Mining Lease Site	:	Chikna-A Bed Sand G	hat	
2.	Location/Site (GPS Co-ordinate)	The proposed sand q	uarry area is situate	ed in Chikna-A village,	
	·		Tehsil- Kamptee, Dis	trict- Nagpur (Mah	narashtra).The project
			site falls within the S	Survey of India Topo	osheet No. 55K/15.
			Boundary	Latitude	Longitude
			Point		
			1	21°6'39.52"N	79°24'43.45"E
			2	21°6'41.43"N	79°24'43.69"E
			3	21°6'37.06"N	79°24'54.79"E
			4	21°6'34.91"N	79°24'54.38"E
3.	Size of the Mining Lease Area	:	2.25 Hectare		
4. 5.	Capacity of the Mining Lease	:	3975 Brass/Annum		
5. 6.	Period of the Mining Lease Expected Cost of the Project	:	One year 0.99/- (in crores)		
7.	Contact Information	:	District Mining Office	or (DMO)	
7.	Contact information	•	Nagpur Collectorate,	er (DMO),	
			Nagpur (Maharashtra	al	
			Email: Dmonagpur 1@	•	
(II) E	nvironmental Sensitivity				
S. No.	Areas		Name/Identity	Distance in	n
				Kilometer	/Details
1.	Distance of project site from nea	rest	Kanhan River Bridge	At a distance of ~	3.67Km away
	rail or road bridge over	the		towards NW from	Project Site.
	concerned River, Rivulet, Nallah e				
2.	Distance from infrastruct	tura	0 /	At a distance of ~	
	Facilities Railway line		Railway	towards N from P	roject Site.
			Station		
	National Highway		NH- 53		3.28 Km in N direction
				from project site.	
	State Highway/Highway		-	-	
	Major District Road		_	_	
	Any Other Road		_	_	
	Electric transmission line pole or to	NA701	C Cl. 1	At a distance of	f ~ 0.63 Km
	Electric transmission line pole of to	Chikna-A village	direction from the		
	Canal or check dam or reservoir	s or			. ,
	lake or ponds		No	-	
	In-take for drinking water p	ump	Chikna-A village	At a distance of	f ~ 0.63 Km direction
	house			from the project s	ite.
nouse			<u> </u>	sign and Enviro Solutio	

	Intake for Irrigation canal pumps	Chikna-A village	At a distance of \sim 0.63 Km direction from the project site.
3.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value.	No	No such area is located within the studyarea.
4.	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests.	Yes	The quarry area is itself part of water body i.e. River Kanhan, there are number of tributes of River Kanhan is also available in Study Area.
5.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	
6.	Inland, coastal, underground waters	Marine	Or
7.	State, National boundaries	No	None
8.	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas.	No	-
9.	Defense installations	Yes	Cantonment Board Office Kamptee, At a distance of ~26.00 Km towards NW from the Project site.
10.	Densely populated or built-up area distance from nearest human habitation	Chikna-A village	At a distance of ~ 0.63 Km direction from the project site.
11.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - St. Rossello's School (CBSE) - School, 5.12 km in NW of ML) Hospital:-Primary health centre, Mauda at 4.28 Km, towards NWof ML from query area.
12.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Kanhan.
13.	Densely populated or built-up area distance from nearest human habitation	Chikna-A village	At a distance of ~ 0.63 Km direction from the project site.
14.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - St. Rossello's School (CBSE) - School, 5.12 km in NW of ML) Hospital:-Primary health centre, Mauda at 4.28 Km, towards NWof ML from query area.
15.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Kanhan.
16.	Densely populated or built-up area	Chikna-A village	At a distance of ~ 0.63 Km

	distance from nearest human habitation		direction from the project site.
17.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - St. Rossello's School (CBSE) - School, 5.12 km in NW of ML) Hospital:- Primary health centre, Mauda at 4.28 Km, towards NWof ML from query area.
18.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Kanhan.

[&]quot;I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.



Name of Sand Ghat : Chikna-A Sand Quarry (Ghut. No. 8,9/1,9/2,10/1,10/2,11,12 (Part))

Taluka : Kamptee

District : Nagpur (Maharashtra)

52. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of 2.25 Ha on Chikna-A adjoining Ghut. No. 8, 9/1,9/2,10/1,10/2,11,12 (Part), Village: Chikna-A, Tehsil: Kamptee, District: Nagpur (Maharashtra). It has been proposed to collect approximately 3975 Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts onvarious features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 3975 Brass per annum.

53. PURPOSE OF EMP

- Assists project proponent in the preparation of an effective and user friendly activitychart for environment management.
- Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- ➤ Ensure that environment management details is captured and documented at allstages of a project.

54. MATRIX FOR EMP

No Particu	lars	Impact	Mitigations Measures	Management Plan	Budget
1. Air	nment	27. Dust generation due to transportation material by 1 no of tractor trolley per day.	27. 0.9 KLD water will be use for regular water spraying of 1.10 km distance of road. Regularly road leveling and maintenance will be done. Loading material will be covered with tarpaulin and overloading will be avoided.	Unpaved Roads Water sprinkling will be done for dust suppression for 1.10 km distance from mine site. To maintain the uniform speed of the trucks/tippers. Leveling will be done. Paved Roads The roads will be maintained regularly. Limited speed will be adopted by transport vehicles. The loaded vehicles will be covered with tarpaulin. Transportation vehicles The vehicles will be kept at good condition by regular servicing and maintenance. PUC certified vehicles will be used. Over loading will be avoided. Air monitoring will be done to check the criteria of air pollutants.	Rs 45,000/- Water sprinkling Rs 33000/- tarpaulin Rs 35000/- is proposed for baseline data for one time.

Conclusion:

In this proposed mining project the suspended particulates from unpaved road and emission from transportation vehicle's engine are the source air pollution. The proposed mining operations are not anticipated to raise the concentration of the pollutants beyond prescribed limits. However, the measures are suggested to mitigate any harmful impacts of pollutants like planning transportation routes of mined material so as to reach the nearest paved roads by shortest route and avoid over speed and over loading.

2.	Noise	1 no of tractor trolleyand	Noise generated by the transport	Vehicle will be maintained in good condition	Rs 35000/- is
	Environment	a tractor for water	vehicles will be intermittent and	to avoid unnecessary noise. Road leveling	proposed for baseline
		sprinkling will be source	for very short time, it will notcause	will be done time to time.	data for one time.
		of noise pollution. The	much adverse impact. Vehicles will		
		impact of noise pollution	be maintained to avoid		
		will be for very short	unnecessary noise.		
		time. No machinery will	Periodical monitoring of noise will		
		be use for mining	be done to adopt corrective actions		
		operation.	wherever needed.		
Cor	 				

Conclusions:

In conclusion, the main source of noise for project will be transportation. Measures are suggested to minimize the noise pollution limited speed of vehicles and regular maintenance of vehicles and approach road.

3	Water	Ground water: Ground	Mining activity will not intersect to	Worker to be advised for use the waste bin	Mobile toilet: Rs	
	Environment	water will not be	ground water.	and Mobile toilet.	1,00,000/-	
		intersected during	Water requirement of 0.60 KLD for		Waste bin: Rs 750/-	
		mining work.	domestic and 0.90 KLD for water			
			sprinkling will be met through			
		Surface water: no	water tanker. Low water demand			
		impact anticipated for	will not be affected to ground			
		surface water.	water.			
			Mobile Toilet and Waste bins will			
			be provided for domestic waste.			
			Mining activity will be done in dry			
			bed only.			
					<u>L</u>	_

Conclusions:

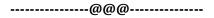
In this mining project in the entire lease period the ground water table will not be intersected hence there will be no impact on the ground water environment and any hazards waste will not be met to surface water. Advised to workers use the dust bin to dispose any domestic solid waste.

4.	Land Environment	Road will be degraded due to transportation. River course erosion due to mined out sand from river.	Regular water sprinkling will be done. Road of 1.10 km length will be maintained in good condition by using local earth material. Mining activity will be restricted to maximum depth of 0.50 m as per GSDA survey. Miningactivity will not done near the river banks. Mining activity will be donein dry bed only. Monitoring will be done to meet the criteria of parameters as per norms of CPCB/ SPCB.	Mining activity will be done as per Rule 23 of MMME (D&R) Rule 2013 and Maharashtra Sand policy 03.09.2019. Mining activity will be done up to 0.50 m depth and dry bed only. Mining will not be done near river banks.	Rs 30750/- Road maintenance
Sug	nclusions: gested to worke nearby land sun Biological Environment	• •		Water spraying on haul road and time to time maintenance will be done to avoid dust generation.	waste water in theriver Rs 45000/- water sprinkling
		activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on near by crops.	particulates are in negligible. Protective measures like water spraying on unpaved road, leveling of unpaved road and sand covered after loading will be used to prevent.	generation.	
		Pit developed due to mining may be dangerous for animals.			

	Conclusions:							
Not	Not any impact is anticipated on nearby fauna and Flora due to proposed mining activity. Suggested to lease adopt the mitigation measures for dust suppression.							
6.	Socio- Economic Environment	Negative impact is not anticipated on socio-economic environment. Over all positive impact will be done due to proposed mining activity like employment, availability of sand.	Employment will be given to local people for unskilled labor.	Advise to lease given preference to local people.				
Pre	nclusion: eference given t	o local people for employr	nent as labor.					
7.	Occupational Health & Safety	Hazards on site are anticipated like health issue due to dust, dehydration, heat expose and rest shed. Accident from spadesand heavy boulder.	Temporary shed will be provided. Notice board will be placed at	First aid and sanitary facility provide to workers.	Total Amount: Rs 1,78,000/- Rs 5500/- for First Aid Box Rs 9000/- Personal Protective Equipment Rs 12000/- For Temporary shed Rs 1,50,000/- Mobile Toilet Rs 1500/- waste bin			
	Conclusion: Suggested to provided First aid and sanitary facility to workers.							

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

S No	Particulars	Amount in Rs			
1.	Environment Monitoring (Air, Water, Soil and Noise)	30000/-			
2.	Water Sprinkling	45000/-			
3.	Unpaved/ Haul road maintenance	30000/-			
4.	Occupational Health & safety	178000/-			
5.	Tarpaulin	33000/-			
6.	Plantation (along haul and River Bank road)	14200/-			
7.	Security	8000/-			
	Total 3,3				



Environment Management Plan For

Nerighat Sand Ghat, Kamptee Taluka, Nagpur District, State Maharasthra

Name of Sand Ghat	Tehsil	Name of river	Nearest Gut No.	Area in ha	Area in cum LxBxD (m3)	Availa ble Sand in Brass
Nerighat	Kamptee	Kanhan	217/2/3,219,220,221/1 /2,223 & 224/1 (Part)	4.85	565x86x1.5	25754

Project Proponent District Mining Officer, Collector Office, Nagpur

Environment Consultant Open Arch Design and Enviro Solutions LLP



NABET/EIA/2124/IA0081

openarchdesign@gmail.com

Contact no.: 9004778386

December 2021

Name of Sand Ghat :Neri Sand Ghat ,Gut No. 217/2/3,219,220,221/1/2,223 & 224/1 (Part)

Taluka : Kamptee

District : Nagpur (Maharashtra)

1. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of ha on Kanhan River, Gut No. 252&253, village Neri, Tehsil Kamptee, District Nagpur (Maharashtra). It has been proposed to collect approximately 25754Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts on various features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 25754 Brass per annum.

2. PURPOSE OF EMP

- Assists project proponent in the preparation of an effective and user-friendly activitychart for environment management.
- Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- ➤ Ensure that environment management details is captured and documented at all stages of a project.

3. MATRIX FOR EMP

Environment Management plan matrix is given in Table no.1.

Table 1: Environmental Management Plan Matrix

	Table 1: Environmental Management Plan Matrix						
#	Particulars	Impact	Mitigations Measures	Management Plan	Budget		
1.	Air	1. Dust generation due to	1. 1.0 KLD water will be use	<u>Unpaved Roads</u>	Rs.50,000/- Water		
	Environment	transportation material	for regular water	Water sprinkling will be done	sprinkling		
		by 01 no of tractor	spraying of 1.10 km	for dust suppression for 1.10			
		trolley perday.	distance of road.	km distance from minesite.	Rs.20000/-		
		2. In mining activities, the	Regularly road leveling	To maintain the uniform speed	Tarpaulin		
		only source of gaseous	and maintenance will be	of the trucks/tippers. Leveling			
		emissions is from the	done.	will be done.	Rs 45000/- is		
		engines of transport	Loading material will be	Paved Roads	proposed for		
		vehicles.	covered with tarpaulin	The roads will be maintained	baseline data for		
			and overloading will be	regularly. Limited speed will be	one time.		
			avoided.	adopted by transportvehicles.			
			2. PUC certified vehicles will	The loaded vehicles will be			
			beused for transportation	covered withtarpaulin.			
			and run under limited	Transportation vehicles			
			speed. Regular	The vehicles will be kept at			
			maintenance will be done	good condition by regular			
			of vehicles.	servicing and maintenance.			
			3. In addition to prevent	PUC certified vehicle will be			
			spillage by tractor trolleys	used. Overloading will be			
			over loading should be	avoided. Air monitoring will be			
			controlled along with	done to check the criteria of			
			speed limit (1Brass	air pollutants.			

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget	
			/tractor trolley).			
	Conclusion: In this proposed mining project the suspended particulates from unpaved road and emission from transportation vehicle's engine are the source air pollution. The proposed mining operations are not anticipated to raise the concentration of the pollutants beyond prescribed limits. However, the measuresare suggested to mitigate any harmful impacts of pollutants like planning transportation routes of mined material so as to reach the nearest paved roads by shortest route and avoid over speed and over loading.					
2	Noise Environment	1 no of tractor trolley and a tractor for water sprinkling will be source of noise pollution. The impact of noise pollution will be for very short time. No machinery will be use for mining operation.	Noise generated by the transport vehicle will be intermittent and for very short time, it will not cause much adverse impact. Vehicles will be maintained to avoid unnecessary noise. Periodical monitoring of noise will be done to adopt corrective actions wherever needed. Mining shall not be carried out night time, only permitted for day time. No heavy machinery is allowed for excavation only tractor with trolley will be used for transportation of sand from river bed	Vehicle to be maintained in good condition to avoid unnecessary noise. Timely maintenance of vehicles and their silencers to minimize vibration and Sound. Road leveling will be done time to time. Phasing out of old and worn-out tractor trolleys. Provision of green belts along the road networks. Care to be taken to produce minimum sound during sand loading. Use of Backhoe and ear plugs may be provided to protect the labours working at the site. Minimum use of Horns in village area.	Rs 25000/- is proposed for baseline data for one time	

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
	speed of vehicles	and regular maintenance of vehi	cles and approach road.		
3.	Water Environment	Ground water: Ground water will not be intersected during mining work. No waste water will be generated from the mining activity of minor minerals as the project only involves lifting of sand from river quarry in dry state. Surface water: no impact anticipated for surface water.	Mining activity will not intersect toground water. Water requirement of 0.50 KLD for domestic and 1.0 KLD for water sprinkling will be met through water tanker. Low water demand will not be affected to ground water. Mobile Toilets will be provided for waste water and Domestic waste to be collected in dust bins and handed over to the local authority for disposal. Mining activity will be done	Mining is stopped during the monsoon season and at the time of floods. This helps in replenishment of sand in the riverbed. Worker to be advised for use the waste bin and Mobile toilets.	Mobile toilet: Rs. 1,20,350/- Waste bin: Rs 350/-
	in dry bed only. Conclusions: In this mining project in the entire lease period the ground water table will not be intersected hence there will be no impact on				-
	ground waterenvironment and waste will not be met to surface water. Advised to workers to use the dust bin to dispose any domestic solid waste.				
4	Land Environment	Road will be degraded due to transportation. River course erosion due to mined out sand from river.	Regular water sprinkling will be done. Road of 1.10 km length will be maintained in good condition by using local earth material.	Mining activity will be done as per Rule 23 of MMME (D&R) Rule 2013 and Maharashtra Sand policy 03.09.2019. Mining activity will be done up	Rs. 45,750/- Roadmaintenance

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
			Mining activity will be done in 48590 sq m area. Sand from river will be restricted to maximum depth of 0.40 m as per GSDA survey. Mining activity will not be carried near the river banks. Mining activity will be carried indry bed only. Monitoring will be done to meet the criteria of parameters as per norms of CPCB/ SPCB.	to 0.40 m depth and dry bed only. Mining will not be done near river banks.	
		kers working with prescribed ma		nobile toilet to prevent disposal of so	lid waste and waste
5	Biological Environment	No impact anticipated on biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on nearby crops. Pit developed due to mining may be dangerous	1 tractor trip per day will be use for transportation of sand. Protective measures like water spraying on unpaved road, leveling of unpaved road and sand covered after loading will be used to prevent.	Water spraying on haul road and time to time maintenance will be done to avoid dustgeneration. Greenbelt Development and Bio-Diversity Preservation Plantation activities will be carried out at the bank of the river and along the haul roads. This activity will help for maintaining ecology and environment of the area.	Rs.5 0 ,000/- water sprinkling

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget	
		for animals.				
	Conclusions: Not any impact is for dust suppress		Flora due to proposed mining a	ctivity. Suggested to lease adopt the	mitigation measures	
6.	Socio- Economic Environment	Negative impact is not anticipated on socio-economic environment. Positive impact due to proposed mining activity are employment, availability of sand.	Employment will be given to localpeople for unskilled and skilled labors.	Preference to be given to local people.		
	Conclusion: Preference given to local people for employment as labor.					
7	Occupational Health & Safety	On site anticipated hazards are health issue due to dust, dehydration, heat expose and rest shed. Accident from spades and heavy boulder.	First aid box to be provided for initial treatment. Temporary shed will be provided. Notice board will be placed at mining site, and guard will be posted in three shifts to prevent any accident.	First aid and sanitary facility provide to workers.	Total Amount: Rs 133200/- Rs 2500/- for First Aid Box Rs 2000/- Personal Protective Equipment Rs 8000/- For Temporary shed Rs.120350/- Mobile Toilet Rs 350/- waste bin	
	Conclusion: Suggested to prov	vided First aid and sanitary facilit	y to workers.			

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
8.	Waste/ Overburden	No waste will be generated from miningof mineral. Overburden or top soil is absent in the proposed river sand project.	No waste/ overburden will be generated from the river sand mining project.	No waste/ overburden will be generated, thus management plan is not applicable. Domestic waste generated to be collected in dust bins and handed over to the local authority for disposal.	
	Conclusion: Waste is not anticipated in River sand mining activity as well as top soil and overburden also absent in the proposed river sand project.				

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures. Fund provision for EMP is given in below.

Table 2: Environmental Management Plan Budget

S No	Particulars	Amount in Rs
1.	Environment Monitoring (Air, Water, Soil and Noise)	85000
2.	Water Sprinkling	75000
3.	Unpaved/ Haul Road maintenance	55750
4.	Occupational Health & safety	157250
5.	Tarpaulin	20000
6.	Plantation	15000
7.	Security	10000
	Total	418000

APPENDIX VIII (See paragraph 6) FORM 1 M

APPLICATION FOR MINING OF MINOR MINERALS UNDER CATEGORY 'B2' FOR LESS THAN AND EQUAL TO FIVE HECTARE

(I) BASIC INFORMATION

(i) Name of the Mining Lease site: Neri Sand Ghat over an extent of 4.85 ha. at Gut No. 217/2/3,219,220,221/1/2,223 & 224/1 (Part), Village Neri, Tehsil Kamptee, District- Nagpur, Maharashtra.

(ii) Location / site (GPS Co-ordinates):

Points	Longitude	Latitude	
BP-1	21°12'34.65"N	79°16'14.61"E	
BP-2	21°12'30.82"N	79°16'13.82"E	
BP-3	21°12'29.89"N	79°16'20.05"E	
BP-4	21°12'28.44"N	79°16'26.65"E	
BP-5	21°12'32.31"N	79°16'27.22"E	
BP-6	21°12'34.33"N	79°16'20.54"E	

(iii) Size of the Mining Lease (Hectare): 4.85

(iv) Capacity of Mining Lease (TPA): 25754 Brass

(v) Period of Mining Lease: 01 years

(vi) Expected cost of the Project: INR 15,814,000/-

(vii) Contact Information: District Mining Officer, Nagpur

(II) ENVIRONMENTAL SENSITIVITY

S. N	ITEMS	DETAILS
1.	Distance of project site from nearest rail or road bridge over the concerned River, Rivulet, Nalla etc.	
2.	Distance from infrastructural facilitiesRailway lineNational Highway	 Kanhan railway station ,3.94 km, North Kampte kapsi is present at an approx. distance of 1.02 km in south of the sand ghat area

	State Highway	 Kampte kapsi is present at an approx. distance of
	Major District Road	1.02 km in south of the sand ghat area
	Any Other Road	 Kampte kapsi is present at an approx. distance of
	J	1.02 km in south of the sand ghat area
	 Electric transmission line pole or tower 	•
	 Canal or check dam or reservoirs or lake or ponds 	NilNil
	 In-take for drinking water pump house. 	Neri village,2.21km, SouthNeri village,2.21km, South
3.	 Intake for Irrigation canal pumps Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value 	
4.	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	Kanhan River bed
5.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, overwintering, migration	
6.	Inland, coastal, marine or underground waters	Kanhan River Bed
7.	State, National boundaries	Nil
8.	Routes or facilities used by the public for access to recreation or other tourist, Pilgrim areas	
9.	Defense installations	Nil
10.	Densely populated or built-up area, distance from nearest human habitation	Neri village,2.21km, South
11.	Areas occupied by sensitive man-made land uses(Hospitals, schools, places of worship, community facilities)	
12.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	Kanhan River (this is the case of river sandmining)
13.	existing legal environmental standards are exceeded)	or environmental damage.
14.	could cause the project to present environmental problems (Earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions)	Мар.
15.	Is proposed mining site located over or near fissure / fracture for ground water recharge	This is River sand mining project.
16.	Whether the proposal involves approval or clearance under the following Regulations	No
L		

	or Acts, namely: - (a) The Forest (Conservation) Act, 1980; (b) The Wildlife (Protection) Act, 1972; (c) The Coastal Regulation Zone Notification, 2011. If yes, details of the same and their	
	status tobe given.	
17.	Forest land involved (hectares)	No forest land involved
18.	Whether there is any litigation pending against project and/or land in which the project is propose to be set up? (a) Name of the Court (b) Case No. Orders or directions of the Court, if any, and its relevance with the proposed project.	No litigation pending against the project and/or land in any court

"I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.

Date: __/12/2021

Environment Management Plan For

Ungaon Sand Ghat, Kamptee Taluka, Nagpur District, State Maharasthra

Name of Sand Ghat	Tehsil	Name of river	Nearest Gut No.	Area in ha	Area in cum LxBxD (m3)	Availa ble Sand in Brass
Ungaon	Kamptee	Kanhan	212,217,218,219,222,21 1 (Part)	4.81	650x74x0.30	5098

Project Proponent District Mining Officer, Collector Office, Nagpur

Environment Consultant Open Arch Design and Enviro Solutions LLP



NABET/EIA/2124/IA0081

openarchdesign@gmail.com

Contact no.: 9004778386

December 2021

Name of Sand Ghat: Ungaon Sand Ghat, Gut No. 212,217,218,219,222,211 (Part),

Taluka : Kamptee

District : Nagpur (Maharashtra)

1. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of 4.81 ha on Kanhan River, Gut No. 212,217,218,219,222,211 (Part), village Ungaon, Tehsil Kamptee, District Nagpur (Maharashtra). It has been proposed to collect approximately 5098 Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts on various features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 5098 Brass per annum.

2. PURPOSE OF EMP

- Assists project proponent in the preparation of an effective and user-friendly activity chart for environment management.
- Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- ➤ Ensure that environment management details is captured and documented at all stages of a project.

Environment Management plan matrix is given in Table no.1.

Table 1: Environmental Management Plan Matrix

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
1.	Air	1. Dust generation due to	1. 1.0 KLD water will be use	<u>Unpaved Roads</u>	Rs.50,000/- Water
	Environment	transportation material	for regular water	Water sprinkling will be done	sprinkling
		by 2 no oftractor trolley	spraying of 1.10 km	for dust suppression for 1.10	
		perday.	distance of road.	km distance from minesite.	Rs.15000/-
		2. In mining activities, the	Regularly road leveling	To maintain the uniform speed	Tarpaulin
		only source of gaseous	and maintenance will be	of the trucks/tippers. Leveling	
		emissions is from the	done.	will be done.	Rs 45000/- is
		engines of transport	Loading material will be	Paved Roads	proposed for
		vehicles.	covered with tarpaulin	The roads will be maintained	baseline data for
			and overloading will be	regularly. Limited speed will be	one time.
			avoided.	adopted by transportvehicles.	
			2. PUC certified vehicles will	The loaded vehicles will be	
			beused for transportation	covered withtarpaulin.	
			and run under limited	Transportation vehicles	
			speed. Regular	The vehicles will be kept at	
			maintenance will be done	good condition by regular	
			of vehicles.	servicing and maintenance.	
			3. In addition to prevent	PUC certified vehicle will be	
			spillage by tractor	used. Overloading will be	
			trolleys over loading	avoided. Air monitoring will be	
			should be controlled	done to check the criteria of	
			along with speed limit	air pollutants.	



#	Particulars	Impact	Mitigations Measures	Management Plan	Budget	
			(1Brass /tractor trolley).			
	Conclusion: In this proposed	mining project, the suspended	particulates from unpayed road :	and emission from transportation ve	chicle's engine are the	
	In this proposed mining project, the suspended particulates from unpaved road and emission from transportation vehicle's engine are the source air pollution. The proposed mining operations are not anticipated to raise the concentration of the pollutants beyond prescribed limits. However, the measures are suggested to mitigate any harmful impacts of pollutants like planning transportation routes of mined material so as to reach the nearest paved roads by shortest route and avoid over speed and over loading.					
2	Noise Environment	1 no of tractor trolley and a tractor for water sprinkling will be source of noise pollution. The impact of noise pollution will be for very short time. No machinery will be use for mining operation.	Noise generated by the transport vehicle will be intermittent and for very short time, it will not cause much adverse impact. Vehicles will be maintained to avoid unnecessary noise. Periodical monitoring of noise will be done to adopt corrective actions wherever needed. Mining shall not be carried out night time, only permitted for day time. No heavy machinery is allowed for excavation only tractor with trolley will be used for transportation of sand from river bed	Vehicle to be maintained in good condition to avoid unnecessary noise. Timely maintenance of vehicles and their silencers to minimize vibration and Sound. Road leveling will be done time to time. Phasing out of old and worn-out tractor trolleys. Provision of green belts along the road networks. Care to be taken to produce minimum sound during sand loading. Use of Backhoe and ear plugs may be provided to protect the labours working at the site. Minimum use of Horns in village area.	Rs 45000/- is proposed for baseline data for one time	
	Conclusions:			s are suggested to minimize the noise	11 1	

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
	speed of vehicles a	and regular maintenance of vehi	cles and approach road.	•	
3.	Water Environment	Ground water: Ground water will not be intersected during mining work. No waste water will be generated from the mining activity of minor minerals as the project only involves lifting of sand from river quarry in dry state. Surface water: no impact anticipated for surface water.	Mining activity will not intersect toground water. Water requirement of 2 KLD for domestic and 1.0 KLD for water sprinkling will be met through water tanker. Low water demand will not be affected to ground water. Mobile Toilets will be provided for waste water and Domestic waste to be collected in dust bins and handed over to the local authority for disposal. Mining activity will be done in dry bed only.	Mining is stopped during the monsoon season and at the time of floods. This helps in replenishment of sand in the riverbed. Worker to be advised for use the waste bin and Mobile toilets.	Mobile toilet: Rs. 1,20,000/- Waste bin: Rs 750/-
	Conclusions: In this mining project in the entire lease period the ground water table will not be intersected hence there will be no impact on the ground water environment and any hazards waste will not be met to surface water. Advised to workers use the dust bin to dispose any domestic solid waste.				
4	Land Environment	Road will be degraded due to transportation. River course erosion due to mined out sand from river.	Regular water sprinkling will be done. Road of 1.10 km length will be maintained in good condition by using local earth material. Mining activity will be done in	Mining activity will be done as per Rule 23 of MMME (D&R) Rule 2013 and Maharashtra Sand policy 03.09.2019. Mining activity will be done up to 0.40 m depth and dry bed	Rs. 45,750/- Roadmaintenance

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
	river will be maximum of as per GSDA activity will the river activity will bed only. Monitoring meet the parameters		Monitoring will be done to meet the criteria of parameters as per norms of CPCB/ SPCB.	only. Mining will not be done near river banks.	
5	Suggested to workers working with prescribed may water in theriver and nearby land surface Biological Environment No impact anticipated on biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on nearby crops. Pit developed due to mining may be dangerous for animals		3 tractor trips per day will be use for transportation of sand. So anticipated suspended particulates are in negligible. Protective measures like water spraying on unpaved road, leveling of unpaved road and sand covered after loading will be used to prevent.	Water spraying on haul road and time to time maintenance will be done to avoid dustgeneration. Greenbelt Development and Bio-Diversity Preservation Plantation activities will be carried out at the bank of the river and along the haul roads. This activity will help for maintaining ecology and environment of the area.	Rs 50,000/- water sprinkling

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget		
	Conclusions:						
	Not any impact is	anticipated on nearby fauna and	l Flora due to proposed mining a	ctivity. Suggested to lease adopt the r	nitigation measures		
	for dust suppress	ion.					
6.	Socio- Economic Environment	Negative impact is not anticipated on socio-economic environment. Over all positive impact will be done due to proposed mining activity like employment, availability of sand.	Employment will be given to local people for unskilled labor.	Advise to lease given preference to localpeople.			
	Conclusion: Preference given to local people for employment as labor.						
7	Occupational Health & Safety	Hazards on site are anticipated like health issue due to dust, dehydration, heat expose and rest shed. Accident from spades and heavy boulder.	First aid box to be provided for initial treatment. Temporary shed will be provided. Notice board will be placed at mining site, and guard will be posted in three shifts to prevent any accident.	First aid and sanitary facility provide to workers.	Total Amount: Rs 1,37,250/- Rs 2500/- for First Aid Box Rs 4000/- Personal Protective Equipment Rs 10000/- For Temporary shed		
					Rs.1,20,000/- Mobile Toilet Rs 750/- waste bin		
	Conclusion: Suggested to prov	vided First aid and sanitary facilit	ty to workers.		,		
8.	Waste/	No waste will be generated	No waste/ overburden will	No waste/ overburden will be			



#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
	Overburden	from mining of mineral.	be generated from the river	generated, thus management	
		Overburden or top soil is	sand mining project, thus not	plan does not required for	
		absent in the proposed	any mitigation measure or	Waste/ overburden. Domestic	
		river sand project.	management plan is	waste generated to be collected	
			adopted.	in dust bins and handed over to	
			-	the local authority for disposal.	
	Conclusion:				
	Waste is not antic	cipated in River sand mining activ	rity as well as top soil and overbu	irden also absent in the proposed riv	er sand project.

4. FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures. Fund provision for EMP is given in below.

Table 2: Environmental Management Plan Budget

S No	Particulars	Amount in Rs
1.	Environment Monitoring (Air, Water, Soil and Noise)	85000
2.	Water Sprinkling	75000
3.	Unpaved/ Haul Road maintenance	55750
4.	Occupational Health & safety	157250
5.	Tarpaulin	20000
6.	Plantation	15000
7.	Security	10000
	Total	418000

APPENDIX VIII (See paragraph 6) FORM 1 M

APPLICATION FOR MINING OF MINOR MINERALS UNDER CATEGORY 'B2' FOR LESS THAN AND EQUAL TO FIVE HECTARE

(I) BASIC INFORMATION

- (i) Name of the Mining Lease site: Ungaon Sand Ghat over an extent of 4.81 ha. at Gut No. 212,217,218,219,222,211 (Part), village Ungaon, Tehsil Kamptee, District Nagpur (Maharashtra).
- (ii) Location / site (GPS Co-ordinates):

Points	Longitude	Latitude
BP-1	21°11'49.38"N	79°17'54.56"E
BP-2	21°11'51.79"N	79°17'54.36"E
BP-3	21°11'50.26"N	79°18'4.62"E
BP-4	21°11'44.52"N	79°18'15.12"E
BP-5	21°11'41.98"N	79°18'14.30"E
BP-6	21°11'47.79"N	79°18'4.04"E

(iii) Size of the Mining Lease (Hectare): 4.81

(iv) Capacity of Mining Lease (TPA): 5098 Brass

(v) Period of Mining Lease: 01 years

(vi) Expected cost of the Project: INR 1.06 Crores

(vii) Contact Information: District Mining Officer, Nagpur

(II) ENVIRONMENTAL SENSITIVITY

S. N	ITEMS	DETAILS
1.	Distance of project site from nearest rail or road bridge over the concerned River, Rivulet, Nalla etc.	Kanhan River bridge, 3.54km towards North
2.	 Distance from infrastructural facilities Railway line National Highway State Highway Major District Road 	 Kanhan railway station is at distance of 7.03 km towards North Kamptee railway station is at distance of 10.66km towards West NH 247 at a distance of ~4.49km towards South SH-266 at distance of 2.28km towards North The sand spot area is connected to approached

	Any Other Road	road at a distance of ~33.75meter in South
		direction, this road is further connected to
		Kamptee Kapsi road at a distance of ~2.87km. in
		West of the sand ghat spot.
	Electric transmission line pole or	
	tower	• NA
	 Canal or check dam or reservoirs or lake or ponds 	• Nil
	 In-take for drinking water pump 	
	houseIntake for Irrigation canal	H 1 21 4 421 C 41
	pumps	Undgaon village,1.42km, South
		Sonegaon village,1.14km, South
3.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	
	Areas which are important or sensitive for	0
4.	ecological reasons - Wetlands, watercourses or other water bodies, coastal zone,	110111110111111111111111111111111111111
	biospheres, mountains, forests Areas used by protected, important or	Nil
5.	sensitive species of flora or fauna for	
J .	breeding, nesting, foraging, resting, overwintering, migration	
6.	Inland, coastal, marine or underground	Kanhan River Bed
0.	waters State, National boundaries	Nil
7.		
8.	Routes or facilities used by the public for access to recreation or other tourist, Pilgrim areas	NH 247 at a distance of ~4.49km towards South
9.	Defense installations	Nil
	Densely populated or built-up area, distance from nearest human habitation	 Undgaon village,1.42km, South
10.	If offi fleat est fluffialf flabitation	Sonegaon village,1.14km, South
	Areas occupied by sensitive man-made land	Kanhan PHC at a distance of ~7.40km towards North
11.	uses (Hospitals, schools, places of worship,	
	community facilities)	
	Areas containing important, high quality or	Kanhan River (this is the case of river sandmining)
12.	scarce resources (ground water resources, surface resources, forestry, agriculture,	
	fisheries, tourism, minerals)	
	Areas already subjected to pollution or	
13.	environmental damage. (Those where existing legal environmental standards are	
	exceeded)	
		The mine lease area falls in Seismic Zone II (Least Active), according to the Indian Standard Seismic Zoning
14.	environmental problems	Map.
14.	(Earthquakes, subsidence, landslides,	-
	erosion, flooding or extreme or adverse climatic conditions)	
15.	Is proposed mining site located over or near	This is River sand mining project.
	fissure / fracture for ground water recharge	

16.	Whether the proposal involves approval or clearance under the following Regulations or Acts, namely: - (a) The Forest (Conservation) Act, 1980; (b) The Wildlife (Protection) Act, 1972; (c) The Coastal Regulation Zone Notification, 2011. If yes, details of the same and their	No
4.5	status tobe given.	No forest land involved
17.	Forest fand involved (flectares)	ino forest fand involved
18.	Whether there is any litigation pending against project and/or land in which the project is propose to be set up? (a) Name of the Court (b) Case No. Orders or directions of the Court, if any, and its relevance with the proposed project.	No litigation pending against the project and/or land in any court

"I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.

Date: __/12/2021

Environment Management Plan Chikna A Sand Ghat, Kamptee Taluka, Nagpur District, State Maharasthra

Name of Sand Ghat	Tehsil	Name of river	Nearest Gut No.	Area in ha	Area in cum LxBxD (m3)	Availa ble Sand in Brass
Chikna A	Kamptee	Kanhan	8,9/1,9/2,10/1,10/2,11, 12 (Part)	2.25	450X50X0.5	3975

Project Proponent District Mining Officer, Collector Office, Nagpur

Environment Consultant Open Arch Design and Enviro Solutions LLP



NABET/EIA/2124/IA0081

openarchdesign@gmail.com

Contact no.:9004778386

December 2021

ENVIRONMENT MANAGEMENT PLAN

Name of Sand Ghat : Chikna-A Sand Quarry (Ghut. No. 8,9/1,9/2,10/1,10/2,11,12 (Part))

Taluka : Kamptee

District : Nagpur (Maharashtra)

1. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of 2.25 Ha on Chikna-A adjoining Ghut. No. 8, 9/1,9/2,10/1,10/2,11,12 (Part), Village: Chikna-A, Tehsil: Kamptee, District: Nagpur (Maharashtra). It has been proposed to collect approximately 3975 Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts onvarious features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 3975 Brass per annum.

2. PURPOSE OF EMP

The purpose of an EMP is to

- Assists project proponent in the preparation of an effective and user friendly activitychart for environment management.
- Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- ➤ Ensure that environment management details is captured and documented at all stages of a project.

S No	Particulars	Impact	Mitigations Measures	Management Plan	Budget
1.	Air Environment	 Dust generation due to transportation material by 1 no of tractor trolley per day. In mining activities, the only source of gaseous emissions is from the engines of transport vehicles. 	 0.9 KLD water will be use for regular water spraying of 1.10 km distance of road. Regularly road leveling and maintenance will be done. Loading material will be covered with tarpaulin and overloading will be avoided. PUC certified vehicles will be used for transportation and run under limited speed. Regular maintenance will be done of vehicles. 	Unpaved Roads Water sprinkling will be done for dust suppression for 1.10 km distance from mine site. To maintain the uniform speed of the trucks/tippers. Leveling will be done. Paved Roads The roads will be maintained regularly. Limited speed will be adopted by transport vehicles. The loaded vehicles will be covered with tarpaulin. Transportation vehicles The vehicles will be kept at good condition by regular servicing and maintenance. PUC certified vehicles will be used. Over loading will be avoided. Air monitoring will be done to check the criteria of air pollutants.	Rs 45,000/- Water sprinkling Rs 33000/- tarpaulin Rs 35000/- is proposed for baseline data for one time.

Conclusion:

In this proposed mining project the suspended particulates from unpaved road and emission from transportation vehicle's engine are the source air pollution. The proposed mining operations are not anticipated to raise the concentration of the pollutants beyond prescribed limits. However, the measures are suggested to mitigate any harmful impacts of pollutants like planning transportation routes of mined material so as to reach the nearest paved roads by shortest route and avoid over speed and over loading.

2.	Noise	1 no of tractor trolleyand	Noise generated by the transport	Vehicle will be maintained in good condition	Rs 35000/- is		
	Environment	a tractor for water	vehicles will be intermittent and	to avoid unnecessary noise. Road leveling	proposed for baseline		
		sprinkling will be source	for very short time, it will notcause	will be done time to time.	data for one time.		
		of noise pollution. The	much adverse impact. Vehicles will				
		impact of noise pollution	be maintained to avoid				
	will be for very short un		unnecessary noise.				
	time. No machinery will Periodical mo		Periodical monitoring of noise will				
		be use for mining	be done to adopt corrective actions				
		operation.	wherever needed.				
Cor	Conclusions:						
	In conclusion, the main source of noise for project will be transportation. Measures are suggested to minimize the noise pollution limited speed of vehicles and regular maintenance of vehicles and approach road.						

3.	Water	Ground water: Ground	Mining activity will not intersect to	Worker to be advised for use the waste bin	Mobile toilet: Rs
	Environment	water will not be	ground water.	and Mobile toilet.	1,00,000/-
		intersected during	Water requirement of 0.60 KLD for		Waste bin: Rs 750/-
		mining work.	domestic and 0.90 KLD for water		
			sprinkling will be met through		
		Surface water: no	water tanker. Low water demand		
		impact anticipated for	will not be affected to ground		
	surface water.		water.		
			Mobile Toilet and Waste bins will		
			be provided for domestic waste.		
			Mining activity will be done in dry		
			bed only.		
	1 .				<u> </u>

Conclusions:

In this mining project in the entire lease period the ground water table will not be intersected hence there will be no impact on the ground water environment and any hazards waste will not be met to surface water. Advised to workers use the dust bin to dispose any domestic solid waste.

4.	Land	Road will be degraded	Regular water sprinkling will be	Mining activity will be done as per Rule 23 of	Rs 30750/- Road
	Environment	due to transportation.	done. Road of 1.10 km length will	MMME (D&R) Rule 2013 and Maharashtra	maintenance
		River course erosion due	be maintained in good condition	Sand policy 03.09.2019.	
		to mined out sand from	by using local earth material.	Mining activity will be done up to 0.50 m	
		river.	Mining activity will be restricted to	depth and dry bed only. Mining will not be	
			maximum depth of 0.50 m as per	done near river banks.	
			GSDA survey. Miningactivity will not		
			done near the river banks. Mining		
			activity will be donein dry bed only.		
			Monitoring will be done to meet		
			the criteria of parameters as per		
			norms of CPCB/ SPCB.		
Cor	ıclusions:				
		rs working with prescribed	manner only use the dustbin and mol	bile toilet to prevent disposal of solid waste and	waste water in theriver
and	- l nearby land sur	face.	·		
5.	Biological	No impact anticipated on	3 tractor trips per day will be use	Water spraying on haul road and time to	Rs 45000/- water
	Environment	biological environment	1 1 2	time maintenance will be done to avoid dust	sprinkling
		due to proposed mining	anticipated suspended	generation.	
	activity as mining		particulates are in negligible.		
	activity will be carried		Protective measures like water		
		out in running dry river	spraying on unpaved road, leveling		
			of unpaved road and sand covered		
	_		after loading will be used to		
		are only source, which	prevent.		
		has the impact on			
		near by crops.			
		J 1			

		Pit developed due to			
		•			
		mining may be			
		dangerous for animals.			
	<u>iclusions:</u>				
Not	any impact is ant			gested to lease adopt the mitigation measures for du	ist suppression.
6.	Socio-	•	Employment will be given to local	Advise to lease given preference to local	
	Economic	anticipated on socio-	people for unskilled labor.	people.	
	Environment	economic environment.			
		Over all positive impact			
		will be done due to			
		proposed mining activity			
		like employment,			
		availability of sand.			
Con	clusion:			L	
Pre	ference given t	o local people for employr	nent as labor.		
7.	Occupational	Hazards on site are	First aid box to be provided for	First aid and sanitary facility provide to	Total Amount: Rs
	Health &	anticipated like health	initial treatment.	workers.	1,78,000/-
	Safety	issue due to dust,	Temporary shed will be provided.		Rs 5500/- for First
	-	dehydration, heat	Notice board will be placed at		Aid Box
		expose and rest shed.	mining site, and guard will be		Rs 9000/- Personal
		Accident from spadesand	posted in three shifts to prevent		Protective Equipment
		heavy boulder.	any accident.		Rs 12000/- For
			-		Temporary shed
					Rs 1,50,000/-
					Mobile Toilet
					Rs 1500/- waste bin
Con	clusion:				
		led First aid and sanitary fac	ility to workers.		

4. FUND PROVISION FOR EMP

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

S No	Particulars	Amount in Rs			
1.	Environment Monitoring (Air, Water, Soil and Noise)	30000/-			
2.	Water Sprinkling	45000/-			
3.	Unpaved/ Haul road maintenance	30000/-			
4.	Occupational Health & safety	178000/-			
5.	Tarpaulin	33000/-			
6.	Plantation (along haul and River Bank road)	14200/-			
7.	Security	8000/-			
	Total 3,38,200/-				



APPENDIX VIII

(See paragraph - 6) FORM 1M

Application for Mining of Minor Minerals under Category 'B2' for less than and Equal to Five Hectare

(I) Basic Information							
S. No.	Item	•	Details				
1.	Name of the Mining Lease Site	:	Chikna-A Bed Sand Ghat				
2.	Location/Site (GPS Co-ordinate)	:	The proposed sand	quarry area is situate	ed in Chikna-A village,		
			-	• • •	arashtra).The project		
			site falls within the	Survey of India Topo	sheet No. 55K/15.		
			Boundary Latitude Longitude				
			Point				
			1	21°6'39.52"N	79°24'43.45"E		
			2	21°6'41.43"N	79°24'43.69"E		
			3	21°6'37.06"N	79°24'54.79"E		
			4	21°6'34.91"N	79°24'54.38"E		
3.	Size of the Mining Lease Area	:	2.25 Hectare				
4.	Capacity of the Mining Lease	:	3975 Brass/Annum				
5.	Period of the Mining Lease	:	One year				
6.	Expected Cost of the Project	:	0.99/- (in crores)				
7.	Contact Information	:	District Mining Offic	` '			
			Nagpur Collectorate				
			Nagpur (Maharashtr	=			
			Email: Dmonagpur 10	<u>@gmail.com</u>			
	nvironmental Sensitivity		1	T =			
S. No.	Areas		Name/Identity				
4	D:		II I D' D'I	Kilometer			
1.	Distance of project site from near		_		•		
	O O	the		towards NW from	Project Site.		
2	concerned River, Rivulet, Nallah		l Novvoga	At a distance of	15 60 Vm 2005-		
2.	Distance from infrastruct	ura.	0 ,	At a distance of ~	-		
	Facilities Railway line		Railway	towards N from P	i oject site.		
	Notice of High		Station	At a dist	2201/21/21/21		
	National Highway		NH- 53		3.28 Km in N direction		
	Chata Historian (III also			from project site.			
	State Highway/Highway		-	-			
	Major District Road		-	-			
	Any Other Road		-	-			
	Electric transmission line pole or to	wer	Chikna-A village	At a distance of	~ 0.63 Km		
1	pole of te		Cilikila-A village				
			direction from the project site.				
	Canal or check dam or reservoir	s or		direction from the	project site.		
	Canal or check dam or reservoir lake or ponds	s or	No	-	, project site.		

	In-take for drinking water pump	Chikna-A village	At a distance of ~ 0.63 Km direction from the project site.
	house Intake for Irrigation canal pumps	Chikna-A village	At a distance of ~0.63 Km direction
3.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or	No	from the project site. No such area is located within the studyarea.
4.	otherrelated value. Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests.	Yes	The quarry area is itself part of water body i.e. River Kanhan, there are number of tributes of River Kanhan is also available in Study Area.
5.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	
6.	Inland, coastal, underground waters	Marine	Or
7.	State, National boundaries	No	None
8.	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas.	No	-
9.	Defense installations	Yes	Cantonment Board Office Kamptee, At a distance of ~26.00 Km towards NW from the Project site.
10.	Densely populated or built-up area distance from nearest human habitation	Chikna-A village	At a distance of ~ 0.63 Km direction from the project site.
11.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - St. Rossello's School (CBSE) - School, 5.12 km in NW of ML) Hospital:-Primary health centre, Mauda at 4.28 Km, towards NWofMLfrom query area.
12.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Kanhan.
13.	Densely populated or built-up area distance from nearest human habitation	Chikna-A village	At a distance of ~ 0.63 Km direction from the project site.
14.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - St. Rossello's School (CBSE) - School, 5.12 km in NW of ML) Hospital:-Primary health centre, Mauda at 4.28 Km, towards NWofMLfrom query area.
15.	Areas containing important, high quality or scarce resources (ground water resources, surface resources,	No	Quarry mine area is falls in river Kanhan.

	forestry, agriculture, fisheries, tourism, minerals)		
16.	Densely populated or built-up area distance from nearest human habitation	Chikna-A village	At a distance of ~ 0.63 Km direction from the project site.
17.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	School: - St. Rossello's School (CBSE) - School, 5.12 km in NW of ML) Hospital:-Primary health centre, Mauda at 4.28 Km, towards NWofMLfrom query area.
18.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Quarry mine area is falls in river Kanhan.

[&]quot;I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.



Environment Management Plan For

Chichghat Sand Ghat, Kuhi Taluka, Nagpur District, State Maharasthra

Name of Sand Ghat	Tehsil	Name of river	Nearest Gut No.	Area in ha	Area in cum LxBxD (m3)	Availa ble Sand in Brass
Chichghat	Kuhi	Kanhan	43	4.85	300x100x0.5	5300

Project Proponent District Mining Officer, Collector Office, Nagpur

Environment Consultant Open Arch Design and Enviro Solutions LLP



NABET/EIA/2124/IA0081

openarchdesign@gmail.com

Contact no.: 9004778386

December 2021

ENVIRONMENT MANAGEMENT PLAN

Name of Sand Ghat :Chichghat Sand Ghat over an extent of 3.00 ha. at Gut No. 43, Village

Chichghat.

Taluka : Kuhi

District : Nagpur (Maharashtra)

1. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of 3.00ha on Kanhan River, at Gut No. 43, Village Chichghat, Tehsil Kuhi, District- Nagpur, Maharashtra. It has been proposed to collect approximately 5300 Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts on various features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 5300 Brass per annum.

2. PURPOSE OF EMP

The purpose of an EMP is to

- Assists project proponent in the preparation of an effective and user-friendly activity chart for environment management.
- Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- ➤ Ensure that environment management details is captured and documented at all stages of a project.

Environment Management plan matrix is given in Table no.1.

Table 1: Environmental Management Plan Matrix

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
1.	Air	1. Dust generation due to	1. 1.0 KLD water will be use	<u>Unpaved Roads</u>	Rs.20,000/- Water
	Environment	transportation material	for regular water	Water sprinkling will be done	sprinkling
		by 01 no of tractor	spraying of 1.10 km	for dust suppression for 1.10	
		trolley perday.	distance of road.	km distance from minesite.	Rs.15000/-
		2. In mining activities, the	Regularly road leveling	To maintain the uniform speed	Tarpaulin
		only source of gaseous	and maintenance will be	of the trucks/tippers. Leveling	
		emissions is from the	done.	will be done.	Rs 20000/- is
		engines of transport	Loading material will be	Paved Roads	proposed for
		vehicles.	covered with tarpaulin	The roads will be maintained	baseline data for
			and overloading will be	regularly. Limited speed will be	one time.
			avoided.	adopted by transportvehicles.	
			2. PUC certified vehicles will	The loaded vehicles will be	
			beused for transportation	covered withtarpaulin.	
			and run under limited	Transportation vehicles	
			speed. Regular	The vehicles will be kept at	
			maintenance will be done	good condition by regular	
			of vehicles.	servicing and maintenance.	
			3. In addition to prevent	PUC certified vehicle will be	
			spillage by tractor	used. Overloading will be	
			trolleys over loading	avoided. Air monitoring will be	
			should be controlled	done to check the criteria of	
			along with speed limit	air pollutants.	



# Particulars	Impact	Mitigations Measures	Management Plan	Budget				
		(1Brass /tractor trolley)						
source air pollut However, the me	Conclusion: In this proposed mining project the suspended particulates from unpaved road and emission from transportation vehicle's engine are the source air pollution. The proposed mining operations are not anticipated to raise the concentration of the pollutants beyond prescribed limits. However, the measures are suggested to mitigate any harmful impacts of pollutants like planning transportation routes of mined material so as to reach the nearest paved roads by shortest route and avoid over speed and over loading.							
2 Noise Environment	1 no of tractor trolley and a tractor for water sprinkling will be source of noise pollution. The impact of noise pollution will be for very short time. No machinery will be use for mining operation.	Noise generated by the transport vehicle will be intermittent and for very short time, it will not cause much adverse impact. Vehicles will be maintained to avoid unnecessary noise. Periodical monitoring of noise will be done to adopt corrective actions wherever needed. Mining shall not be carried out night time, only permitted for day time. No heavy machinery is allowed for excavation only tractor with trolley will be used for transportation of sand from river bed	Vehicle to be maintained in good condition to avoid unnecessary noise. Timely maintenance of vehicles and their silencers to minimize vibration and Sound. Road leveling will be done time to time. Phasing out of old and worn-out tractor trolleys. Provision of green belts along the road networks. Care to be taken to produce minimum sound during sand loading. Use of Backhoe and ear plugs may be provided to protect the labours working at the site. Minimum use of Horns in village area.	Rs 20000/- is proposed for baseline data for one time				



#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
	speed of vehicles	and regular maintenance of vehi	cles and approach road.		
3.	Water Environment	Ground water: Ground water will not be intersected during mining work. No waste water will be generated from the mining activity of minor minerals as the project only involves lifting of sand from river quarry in dry state. Surface water: no impact anticipated for surface water.	Mining activity will not intersect toground water. Water requirement of 0.50 KLD for domestic and 1.0 KLD for water sprinkling will be met through water tanker. Low water demand will not be affected to ground water. Mobile Toilets will be provided for waste water and Domestic waste to be collected in dust bins and handed over to the local authority for disposal. Mining activity will be done in dry bed only.	Mining is stopped during the monsoon season and at the time of floods. This helps in replenishment of sand in the riverbed. Worker to be advised for use the waste bin and Mobile toilets.	Mobile toilet: Rs. 1,20,000/- Waste bin: Rs 350/-
		rironment and any hazards was aste.	te will not be met to surface wa	not be intersected hence there will ater. Advised to workers use the du	st bin to dispose any
4	Land Environment	Road will be degraded due to transportation. River course erosion due to mined out sand from river.	Regular water sprinkling will be done. Road of 1.10 km length will be maintained in good condition by using local earth material.	Mining activity will be done as per Rule 23 of MMME (D&R) Rule 2013 and Maharashtra Sand policy 03.09.2019. Mining activity will be done up	Rs. 25,650/- Roadmaintenance

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
			Mining activity will be done from river will be restricted to maximum depth of 0.40 m as per GSDA survey. Mining activity will not be carried near the river banks. Mining activity will be done in dry bed only. Monitoring will be done to meet the criteria of parameters as per norms of CPCB/ SPCB.	to 0.40 m depth and dry bed only. Mining will not be done near river banks.	
		kers working with prescribed ma and nearby land surface	,	nobile toilet to prevent disposal of so	lid waste and waste
5	Biological Environment	No impact anticipated on biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on nearby crops. Pit developed due to mining may be dangerous for animals	1 tractor trips per day will be use for transportation of sand. So anticipated suspended particulates are in negligible. Protective measures like water spraying on unpaved road, leveling of unpaved road and sand covered after loading will be used to prevent.	Water spraying on haul road and time to time maintenance will be done to avoid dustgeneration. Greenbelt Development and Bio-Diversity Preservation Plantation activities will be carried out at the bank of the river and along the haul roads. This activity will help for maintaining ecology and environment of the area.	Rs 3 0,000/- water sprinkling



#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
	Conclusions:				
	Not any impact is	anticipated on nearby fauna and	l Flora due to proposed mining a	ctivity. Suggested to lease adopt the 1	nitigation measures
	for dust suppress	ion.			
6.	Socio- Economic Environment	Negative impact is not anticipated on socio-economic environment. Over all positive impact will be done due to proposed mining activity like employment, availability of sand.	Employment will be given to localpeople for unskilled and skilled labors.	Preference to be given to local people.	
	Conclusion: Preference given	to local people for employment a	as labor.		
7	Occupational Health & Safety	Hazards on site are anticipated like health issue due to dust, dehydration, heat expose and rest shed. Accident from spades and heavy boulder.	First aid box to be provided for initial treatment. Temporary shed will be provided. Notice board will be placed at mining site, and guard will be posted in three shifts to prevent any accident.	First aid and sanitary facility provide to workers.	Total Amount: Rs 1,33,200/- Rs 2500/- for First Aid Box Rs 2000/- Personal Protective Equipment Rs 8000/- For Temporary shed Mobile toilet: Rs. 1,20,000/-
	Conclusion: Suggested to prov	vided First aid and sanitary facili	ty to workers.		Waste bin: Rs 350/-
8.	Waste/	No waste will be generated	No waste/ overburden will	No waste/ overburden will be	



#	Particulars	Impact	Mitigations Measures	Management Plan	Budget	
	Overburden	from mining of mineral.	be generated from the river	generated, thus management		
		Overburden or top soil is	sand mining project, thus not	plan does not required for		
		absent in the proposed	any mitigation measure or	Waste/ overburden. Domestic		
		river sand project.	management plan is	waste generated to be collected		
			adopted.	in dust bins and handed over to		
			_	the local authority for disposal.		
	Conclusion:					
	Waste is not anticipated in River sand mining activity as well as top soil and overburden also absent in the proposed river sand project.					

4. FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures. Fund provision for EMP is given in below.

Table 2: Environmental Management Plan Budget

S No	Particulars	Amount in Rs
1.	Environment Monitoring (Air, Water, Soil and Noise)	23500
2.	Water Sprinkling	33500
3.	Unpaved/ Haul Road maintenance	25650
4.	Occupational Health & safety	132850
5.	Tarpaulin	8000
6.	Plantation	15000
7.	Security	10,000
	Total	248500

APPENDIX VIII (See paragraph 6) FORM 1 M

APPLICATION FOR MINING OF MINOR MINERALS UNDER CATEGORY 'B2' FOR LESS THAN AND EQUAL TO FIVE HECTARE

(I) BASIC INFORMATION

(i) Name of the Mining Lease site: Chichghat Sand Ghat over an extent of 3.00 ha. at Gut No. 43, Village Chichghat, Tehsil Kuhi, District- Nagpur, Maharashtra

(ii) Location / site (GPS Co-ordinates):

Points	Longitude	Latitude
BP-1	21°6'33.84"N	79°27'18.97"E
BP-2	21°6'30.45"N	79°27'19.32"E
BP-3	21°6'30.47"N	79°27'29.30"E
BP-4	21°6'33.66"N	79°27'29.53"E

(iii) Size of the Mining Lease (Hectare): 3.00

(iv) Capacity of Mining Lease (TPA): 5300Brass

(v) Period of Mining Lease: 01 years

(vi) Expected cost of the Project: INR 1.43 Cr

(vii) Contact Information: District Mining Officer, Nagpur

(II) ENVIRONMENTAL SENSITIVITY

S. N	ITEMS	DETAILS
1.	Distance of project site from nearest rail or road bridge over the concerned River, Rivulet, Nalla etc.	
2.	 Distance from infrastructural facilities Railway line National Highway State Highway 	 Railway line and Railway station is not present within 2-5 km radius. Kuhi railway station at distance of 15 km towards South. NH 247 at a distance of ~12km towards West No SH within 2-5 km is present

	Major District Road	• Nil
	Any Other Road	 Approach road at distance of 0.94km towards
	Electric transmission line pole or	South
	tower	
	Canal or check dam or reservoirs	• NA
	or lake or pondsIn-take for drinking water pump	 Chichghat village,2.45km, South
	house.	(I) I I I I I I I I I I I I I I I I I I
	Intake for Irrigation canal pumps	Chichghat village,2.45km, South
3.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	
4.	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	
5.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, overwintering, migration	
6.	Inland, coastal, marine or underground waters	Kanhan River Bed
7.	State, National boundaries	Nil
8.	Routes or facilities used by the public for access to recreation or other tourist, Pilgrim areas	NH 247 at a distance of ~12km towards West
9.	Defense installations	Nil
10.	Densely populated or built-up area, distance from nearest human habitation	Rohana village,1.17km, West
11.	Areas occupied by sensitive man-made land uses (Hospitals, schools, places of worship, community facilities)	Small temple towards South at distance of 4.16 km
12.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	Kanhan River (this is the case of river sandmining)
13.	Areas already subjected to pollution or environmental damage. (Those where existing legal environmental standards are exceeded)	or environmental damage.
14.	Areas susceptible to natural hazard which could cause the project to present environmental problems (Earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions)	
15.	Is proposed mining site located over or near fissure / fracture for ground water recharge	This is River sand mining project.
16.	Whether the proposal involves approval or clearance under the following Regulations or Acts, namely: - (a) The Forest (Conservation) Act, 1980;	No
1	(a) The Forest (dollact various) fiet, 1700,	1

	(b) The Wildlife (Protection) Act, 1972;	
	(c) The Coastal Regulation	
	Zone Notification, 2011.	
	If yes, details of the same and their	
	status tobe given.	
17.	Forest land involved (hectares)	No forest land involved
	Whether there is any litigation pending against project and/or land in which the project is propose to be set up?	No litigation pending against the project and/or land in any court
18.	(a) Name of the Court	
	(b) Case No.	
	Orders or directions of the Court, if any, and	
	its relevance with the proposed project.	

"I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.

Date: __/12/2021

Environment Management Plan For

Chiknaghat Sand Ghat, Mouda Taluka, Nagpur District, State Maharashtra

Name of Sand Ghat	Tehsil	Name of river	Nearest Gut No.	Area in ha	Area in cum LxBxD (m3)	Availa ble Sand in Brass
Chiknaghat	Mouda	Kanhan	543/1, 542, 541, 543/2	4.86	540x90x0.6	10303

Project Proponent District Mining Officer, Collector Office, Nagpur

Environment Consultant Open Arch Design and Enviro Solutions LLP



NABET/EIA/2124/IA0081

openarchdesign@gmail.com

Contact no.: 9004778386

December 2021

ENVIRONMENT MANAGEMENT PLAN

Name of Sand Ghat: Chiknaghat Sand Ghat, Gut No. 543/1,542,541,543/2

Taluka : Saoner

District : Nagpur (Maharashtra)

1. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of 4.860ha on Kanhan River, Gut No. 543/1,542,541,543/2, village Chiknaghat, Tehsil Mouda, District Nagpur (Maharashtra). It has been proposed to collect approximately 10303 Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts on various features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 10303 Brass per annum.

2. PURPOSE OF EMP

The purpose of an EMP is to

- Assists project proponent in the preparation of an effective and user-friendly activitychart for environment management.
- Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- ➤ Ensure that environment management details is captured and documented at all stages of a project.

Environment Management plan matrix is given in Table no.1.

Table 1: Environmental Management Plan Matrix

	Table 1: Environmental Management Plan Matrix					
#	Particulars	Impact	Mitigations Measures	Management Plan	Budget	
1.	Air	1. Dust generation due to	1. 1.0 KLD water will be use	<u>Unpaved Roads</u>	Rs.40,000/- Water	
	Environment	transportation material	for regular water	Water sprinkling will be done	sprinkling	
		by 2 no oftractor trolley	spraying of 1.10 km	for dust suppression for 1.10		
		perday.	distance of road.	km distance from minesite.	Rs.15000/-	
		2. In mining activities, the	Regularly road leveling	To maintain the uniform speed	Tarpaulin	
		only source of gaseous	and maintenance will be	of the trucks/tippers. Leveling		
		emissions is from the	done.	will be done.	Rs 45000/- is	
		engines of transport	Loading material will be	Paved Roads	proposed for	
		vehicles.	covered with tarpaulin	The roads will be maintained	baseline data for	
			and overloading will be	regularly. Limited speed will be	one time.	
			avoided.	adopted by transportvehicles.		
			2. PUC certified vehicles will	The loaded vehicles will be		
			beused for transportation	covered withtarpaulin.		
			and run under limited	Transportation vehicles		
			speed. Regular	The vehicles will be kept at		
			maintenance will be done	good condition by regular		
			of vehicles.	servicing and maintenance.		
			3. In addition to prevent	PUC certified vehicle will be		
			spillage by tractor	used. Overloading will be		
			trolleys over loading	avoided. Air monitoring will be		
			should be controlled	done to check the criteria of		
			along with speed limit	air pollutants.		



	Impact	Mitigations Measures	Management Plan	Budget		
		(1Brass /tractor trolley).				
Conclusion: In this proposed	mining project, the suspended	particulates from unpayed road :	and emission from transportation ve	ehicle's engine are the		
source air polluti However, the mea	source air pollution. The proposed mining operations are not anticipated to raise the concentration of the pollutants beyond prescribed line. However, the measures are suggested to mitigate any harmful impacts of pollutants like planning transportation routes of mined material as to reach the nearest paved roads by shortest route and avoid over speed and over loading.					
Noise Environment	1 no of tractor trolley and a tractor for water sprinkling will be source of noise pollution. The impact of noise pollution will be for very short time. No machinery will be use for mining operation.	Noise generated by the transport vehicle will be intermittent and for very short time, it will not cause much adverse impact. Vehicles will be maintained to avoid unnecessary noise. Periodical monitoring of noise will be done to adopt corrective actions wherever needed. Mining shall not be carried out night time, only permitted for day time. No heavy machinery is allowed for excavation only tractor	Vehicle to be maintained in good condition to avoid unnecessary noise. Timely maintenance of vehicles and their silencers to minimize vibration and Sound. Road leveling will be done time to time. Phasing out of old and worn-out tractor trolleys. Provision of green belts along the road networks. Care to be taken to produce minimum sound during sand loading. Use of Backhoe and ear plugs may be provided to protect the labours working at the site. Minimum	Rs 45000/- is proposed for baseline data for one time		

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
	speed of vehicles	and regular maintenance of vehi	cles and approach road.		
3.	B. Water Environment Ground water: Ground water will not be intersected during mining work. No waste water will be generated from the mining activity of minor minerals as the project only involves lifting of sand from river quarry in dry state. Surface water: no impact anticipated for surface water.		Mining activity will not intersect toground water. Water requirement of 2 KLD for domestic and 1.0 KLD for water sprinkling will be met through water tanker. Low water demand will not be affected to ground water. Mobile Toilets will be provided for waste water and Domestic waste to be collected in dust bins and handed over to the local authority for disposal. Mining activity will be done in dry bed only.	monsoon season and at the time Rs. 1,20,000/-	Mobile toilet: Rs. 1,20,000/- Waste bin: Rs 750/-
	Conclusions: In this mining project in the entire lease period the ground water table will not be intersected hence there will be no impact on t ground water environment and any hazards waste will not be met to surface water. Advised to workers use the dust bin to dispose a domestic solid waste.				
4	Land Environment	Road will be degraded due to transportation. River course erosion due to mined out sand from river.	Regular water sprinkling will be done. Road of 1.10 km length will be maintained in good condition by using local earth material. Mining activity will be done in	Mining activity will be done as per Rule 23 of MMME (D&R) Rule 2013 and Maharashtra Sand policy 03.09.2019. Mining activity will be done up to 0.40 m depth and dry bed	Rs. 40,750/- Roadmaintenance

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
			48600 sq m area sand from river will be restricted to maximum depth of 0.40 m as per GSDA survey. Mining activity will not be carried near the river banks. Mining activity will be carried indry bed only. Monitoring will be done to meet the criteria of parameters as per norms of CPCB/ SPCB.	only. Mining will not be done near river banks.	
		kers working with prescribed ma and nearby land surface	,	nobile toilet to prevent disposal of so	lid waste and waste
5	Biological Environment	No impact anticipated on biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on nearby crops. Pit developed due to mining may be dangerous for animals	3 tractor trips per day will be use for transportation of sand. So anticipated suspended particulates are in negligible. Protective measures like water spraying on unpaved road, leveling of unpaved road and sand covered after loading will be used to prevent.	Water spraying on haul road and time to time maintenance will be done to avoid dustgeneration. Greenbelt Development and Bio-Diversity Preservation Plantation activities will be carried out at the bank of the river and along the haul roads. This activity will help for maintaining ecology and environment of the area.	Rs 40,000/- water sprinkling



#	Particulars	Impact	Mitigations Measures	Management Plan	Budget		
	Conclusions: Not any impact is for dust suppress	•	d Flora due to proposed mining a	ctivity. Suggested to lease adopt the	mitigation measures		
6.	Socio- Economic Environment	Negative impact is not anticipated on socio-economic environment. Over all positive impact will be done due to proposed mining activity like employment, availability of sand.	Employment will be given to local people for unskilled labor.	Advise to lease given preference to localpeople.			
	Conclusion: Preference given	to local people for employment a	as labor.				
7	Occupational Health & Safety	Hazards on site are anticipated like health issue due to dust, dehydration, heat expose and rest shed. Accident from spades and heavy boulder.	First aid box to be provided for initial treatment. Temporary shed will be provided. Notice board will be placed at mining site, and guard will be posted in three shifts to prevent any accident.	First aid and sanitary facility provide to workers.	Total Amount: Rs 1,37,250/- Rs 2500/- for First Aid Box Rs 4000/- Personal Protective Equipment Rs 10000/- For Temporary shed Rs.1,20,000/- Mobile Toilet Rs 750/- waste bin		
	Conclusion: Suggested to provided First aid and sanitary facility to workers.						
8.	Waste/	No waste will be generated	No waste/ overburden will	No waste/ overburden will be			



#	Particulars	Impact	Mitigations Measures	Management Plan	Budget			
	Overburden	from mining of mineral.	be generated from the river	generated, thus management				
		Overburden or top soil is	sand mining project, thus not	plan does not required for				
		absent in the proposed	any mitigation measure or	Waste/ overburden. Domestic				
		river sand project.	management plan is	waste generated to be collected				
			adopted.	in dust bins and handed over to				
				the local authority for disposal.				
	Conclusion:							
	Waste is not antic	Waste is not anticipated in River sand mining activity as well as top soil and overburden also absent in the proposed river sand project.						

4. FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures. Fund provision for EMP is given in below.

Table 2: Environmental Management Plan Budget

S No	Particulars	Amount in Rs
1.	Environment Monitoring (Air, Water, Soil and Noise)	85000
2.	Water Sprinkling	75000
3.	Unpaved/ Haul Road maintenance	55750
4.	Occupational Health & safety	157250
5.	Tarpaulin	20000
6.	Plantation	15000
7.	Security	10000
	Total	418000

APPENDIX VIII (See paragraph 6) FORM 1 M

APPLICATION FOR MINING OF MINOR MINERALS UNDER CATEGORY 'B2' FOR LESS THAN AND EQUAL TO FIVE HECTARE

(I) BASIC INFORMATION

- (i) Name of the Mining Lease site: Chiknaghat Sand Ghat over an extent of 4.86 ha. at Gut No. 543/1,542,541,543/2, Village Chiknaghat, Tehsil Mouda, District- Nagpur, Maharashtra
- (ii) Location / site (GPS Co-ordinates):

Points	Longitude	Latitude
BP-1	21°6'50.30"N	79°23'46.10"E
BP-2	21°6'48.03"N	79°23'47.81"E
BP-3	21°6'46.17"N	79°23'49.87"E
BP-4	21°6'44.05"N	79°23'53.14"E
BP-5	21°6'40.56"N	79°23'59.32"E
BP-6	21°6'38.20"N	79°23'59.32"E
BP-7	21°6'41.50"N	79°23'51.64"E
BP-8	21°6'43.90"N	79°23'47.92"E
BP-9	21°6'46.18"N	79°23'45.41"E
BP-10	21°6'48.15"N	79°23'43.99"E

(iii) Size of the Mining Lease (Hectare): 4.86ha

(iv) Capacity of Mining Lease (TPA): 10303Brass

(v) Period of Mining Lease: 01 year

(vi) Expected cost of the Project: INR 3.21 Crores

(vii) Contact Information: District Mining Officer, Nagpur

(II) ENVIRONMENTAL SENSITIVITY

S. N	ITEMS	DETAILS
1.	Distance of project site from nearest rail or road bridge over the concerned River, Rivulet, Nalla etc.	
	Distance from infrastructural facilities Railway line	 There is no railway line and railway station within 2km-5km.
2.	National HighwayState HighwayMajor District RoadAny Other Road	 NH 53 at a distance of ~2.9km towards North SH-253 at distance of 4.34km towards North The sand spot area is connected to small village kachaa road towards North at distance of 444metres which further connects to NH53.
	 Electric transmission line pole or tower Canal or check dam or reservoirs or lake or ponds 	NANot present nearby the area
	 In-take for drinking water pump house Intake for Irrigation canal pumps 	• Wanjra village,2.06km, East Chikna village,1.00km, South
3.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	
4.	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	Kanhan River bed
5.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, overwintering, migration	
6.	Inland, coastal, marine or underground waters	Kanhan River Bed
7.	State, National boundaries	Nil
8.	access to recreation or other tourist, Pilgrim areas	
9.	Defense installations	Nil
10.	Densely populated or built-up area, distance from nearest human habitation	Wanjra village,2.06km, East Chikna village,1.00km, South
11.	Areas occupied by sensitive man-made land uses (Hospitals, schools, places of worship, community facilities)	
12.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture,	Kanhan River (this is the case of river sandmining)

	fisheries, tourism, minerals)	
	lisheries, tourish, himerais)	
13.	Areas already subjected to pollution or environmental damage. (Those where existing legal environmental standards are exceeded)	or environmental damage.
14.	Areas susceptible to natural hazard which could cause the project to present environmental problems (Earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions)	Мар.
15.	Is proposed mining site located over or near fissure / fracture for ground water recharge	This is River sand mining project.
16.	Whether the proposal involves approval or clearance under the following Regulations or Acts, namely: - (a) The Forest (Conservation) Act, 1980; (b) The Wildlife (Protection) Act, 1972; (c) The Coastal Regulation Zone Notification, 2011. If yes, details of the same and their status tobe given.	No
17.	Forest land involved (hectares)	No forest land involved
18.	Whether there is any litigation pending againstthe project and/or land in which the project is propose to be set up? (a) Name of the Court (b) Case No. Orders or directions of the Court, if any, and its relevance with the proposed project.	No litigation pending against the project and/or land in any court

"I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.

Date: __/12/2021

Environment Management Plan For

Kirnapur Sand Ghat, Mouda Taluka, Nagpur District, State Maharashtra

Name of Sand Ghat	Tehsil	Name of river	Nearest Gut No.	Area in ha	Area in cum LxBxD (m3)	Availa ble Sand in Brass
Kirnapur	Mouda	Kanhan	103, 104, 105, 107, 109, 110, 111, 113, 115, 116, 117, 118, 119, 4 & 5	4.95	620x80x0.8	14021

Project Proponent District Mining Officer, Collector Office, Nagpur

Environment Consultant Open Arch Design and Enviro Solutions LLP



NABET/EIA/2124/IA0081

openarchdesign@gmail.com

Contact no.:9004778386

December 2021

ENVIRONMENT MANAGEMENT PLAN

Name of Sand Ghat: Kirnapur Sand Ghat over an extent of 4.95 ha. at Gut No. 103, 104, 105, 107, 109, 110, 111, 113, 115, 116, 117, 118, 119, 4 & 5.

Taluka : Mouda

District : Nagpur (Maharashtra)

1. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is Kirnapur Sand Ghat over an extent of 4.95 ha. at Gut No. 103, 104, 105, 107, 109, 110, 111, 113, 115, 116, 117, 118, 119, 4 & 5, Village Kirnapur, Tehsil Mouda, District- Nagpur, Maharashtra. It has been proposed to collect approximately 14021Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts on various features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 14021 Brass per annum.

2. PURPOSE OF EMP

The purpose of an EMP is to

- Assists project proponent in the preparation of an effective and user-friendly activity chart for environment management.
- ➤ Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- Ensure that environment management details is captured and documented at all stages of a project.

3. MATRIX FOR EMP

Environment Management plan matrix is given in Table no.1.

Table 1: Environmental Management Plan Matrix

	Table 1: Environmental Management Plan Matrix						
#	Particulars	Impact	Mitigations Measures	Management Plan	Budget		
1.	Air	1. Dust generation due to	1. 1.0 KLD water will be use	<u>Unpaved Roads</u>	Rs.50,000/- Water		
	Environment	transportation material	for regular water	Water sprinkling will be done	sprinkling		
		by 01 no of tractor	spraying of 1.10 km	for dust suppression for 1.10			
		trolley perday.	distance of road.	km distance from minesite.	Rs.20000/-		
		2. In mining activities, the	Regularly road leveling	To maintain the uniform speed	Tarpaulin		
		only source of gaseous	and maintenance will be	of the trucks/tippers. Leveling			
		emissions is from the	done.	will be done.	Rs 45000/- is		
		engines of transport	Loading material will be	Paved Roads	proposed for		
		vehicles.	covered with tarpaulin	The roads will be maintained	baseline data for		
			and overloading will be	regularly. Limited speed will be	one time.		
			avoided.	adopted by transportvehicles.			
			2. PUC certified vehicles will	The loaded vehicles will be			
			beused for transportation	covered withtarpaulin.			
			and run under limited	Transportation vehicles			
			speed. Regular	The vehicles will be kept at			
			maintenance will be done	good condition by regular			
			of vehicles.	servicing and maintenance.			
			3. In addition to prevent	PUC certified vehicle will be			
			spillage by tractor trolleys	used. Overloading will be			
			over loading should be	avoided. Air monitoring will be			
			controlled along with	done to check the criteria of			
			speed limit (1Brass	air pollutants.			

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
			/tractor trolley).		
	source air pollut However, the me	ion. The proposed mining operations as a suresare suggested to mitigate	ions are not anticipated to raise th	and emission from transportation vene concentration of the pollutants bey ts like planning transportation routed ver loading.	ond prescribed limits.
2	Noise Environment	1 no of tractor trolley and a tractor for water sprinkling will be source of noise pollution. The impact of noise pollution will be for very short time. No machinery will be use for mining operation.	Noise generated by the transport vehicle will be intermittent and for very short time, it will not cause much adverse impact. Vehicles will be maintained to avoid unnecessary noise. Periodical monitoring of noise will be done to adopt corrective actions wherever needed. Mining shall not be carried out night time, only permitted for day time. No heavy machinery is allowed for excavation only tractor with trolley will be used for transportation of sand from river bed	Vehicle to be maintained in good condition to avoid unnecessary noise. Timely maintenance of vehicles and their silencers to minimize vibration and Sound. Road leveling will be done time to time. Phasing out of old and worn-out tractor trolleys. Provision of green belts along the road networks. Care to be taken to produce minimum sound during sand loading. Use of Backhoe and ear plugs may be provided to protect the labours working at the site. Minimum use of Horns in village area.	Rs 25000/- is proposed for baseline data for one time
	Conclusions:				

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
		- ·	-	s are suggested to minimize the noise	pollution limited
	speed of vehicles	and regular maintenance of vehi			
3.	Water Environment	Ground water: Ground water will not be intersected during mining work. No waste water will be generated from the mining activity of minor minerals as the project only involves lifting of sand from river quarry in dry state. Surface water: no impact anticipated for surface water.	Mining activity will not intersect toground water. Water requirement of 0.50 KLD for domestic and 1.0 KLD for water sprinkling will be met through water tanker. Low water demand will not be affected to ground water. Mobile Toilets will be provided for waste water and Domestic waste to be collected in dust bins and handed over to the local authority for disposal. Mining activity will be done in dry bed only.	Mining is stopped during the monsoon season and at the time of floods. This helps in replenishment of sand in the riverbed. Worker to be advised for use the waste bin and Mobile toilets.	Mobile toilet: Rs. 1,20,350/- Waste bin: Rs 350/-
4		· ·	9	Mining activity will be done as per Rule 23 of MMME (D&R) Rule 2013 and Maharashtra Sand	<u>-</u>

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
		mined out sand from river.	good condition by using local earth material. Mining activity will be done in 49500 sq m area. Sand from river will be restricted to maximum depth of 0.40 m as per GSDA survey. Mining activity will not be carried near the river banks. Mining activity will be carried indry bed only. Monitoring will be done to meet the criteria of parameters as per norms of CPCB/ SPCB.	policy 03.09.2019. Mining activity will be done up to 0.40 m depth and dry bed only. Mining will not be done near river banks.	
		kers working with prescribed ma	anner only use the dustbin and m	nobile toilet to prevent disposal of so	lid waste and waste
5	Biological Environment	No impact anticipated on biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on nearby crops.	1 tractor trip per day will be use for transportation of sand. Protective measures like water spraying on unpaved road, leveling of unpaved road and sand covered after loading will be used to prevent.	Water spraying on haul road and time to time maintenance will be done to avoid dustgeneration. Greenbelt Development and Bio-Diversity Preservation Plantation activities will be carried out at the bank of the river and along the haul roads. This activity will help for	Rs.5 0 ,000/- water sprinkling

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget	
		Pit developed due to mining may be dangerous for animals.		maintaining ecology and environment of the area.		
	Conclusions: Not any impact is anticipated on nearby fauna and Flora due to proposed mining activity. Suggested to lease adopt the mitigation measures for dust suppression.					
6.	Socio- Economic Environment	Negative impact is not anticipated on socio-economic environment. Positive impact due to proposed mining activity are employment, availability of sand.	Employment will be given to localpeople for unskilled and skilled labors.	Preference to be given to local people.		
	Conclusion: Preference given	to local people for employment a	as labor.			
7	Occupational Health & Safety	On site anticipated hazards are health issue due to dust, dehydration, heat expose and rest shed. Accident from spades and heavy boulder.	First aid box to be provided for initial treatment. Temporary shed will be provided. Notice board will be placed at mining site, and guard will be posted in three shifts to prevent any accident.	First aid and sanitary facility provide to workers.	Total Amount: Rs 133200/- Rs 2500/- for First Aid Box Rs 2000/- Personal Protective Equipment Rs 8000/- For Temporary shed Rs.120350/- Mobile Toilet Rs 350/- waste bin	

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget		
	Conclusion: Suggested to prov	rided First aid and sanitary facilit	y to workers.				
8.	Waste/ Overburden	No waste will be generated from miningof mineral. Overburden or top soil is absent in the proposed river sand project.	No waste/ overburden will be generated from the river sand mining project.	No waste/ overburden will be generated, thus management plan is not applicable. Domestic waste generated to be collected in dust bins and handed over to the local authority for disposal.			
	Conclusion: Waste is not anticipated in River sand mining activity as well as top soil and overburden also absent in the proposed river sand project.						

4. FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring ofenvironment protection measures. Fund provision for EMP is given in below.

Table 2: Environmental Management Plan Budget

S No	Particulars	Amount in Rs
1.	Environment Monitoring (Air, Water, Soil and Noise)	85000
2.	Water Sprinkling	75000
3.	Unpaved/ Haul Road maintenance	55750
4.	Occupational Health & safety	157250
5.	Tarpaulin	20000
6.	Plantation	15000
7.	Security	10000
	Total	418000

APPENDIX VIII (See paragraph 6) FORM 1 M

APPLICATION FOR MINING OF MINOR MINERALS UNDER CATEGORY 'B2' FOR LESS THAN AND EQUAL TO FIVE HECTARE

(I) BASIC INFORMATION

(i) Name of the Mining Lease site: Kirnapur Sand Ghat over an extent of 4.95 ha. at Gut No. 103, 104, 105, 107, 109, 110, 111, 113, 115, 116, 117, 118, 119, 4 & 5, Village Kirnapur, Tehsil Mouda, District- Nagpur, Maharashtra.

(ii) Location / site (GPS Co-ordinates):

don's site (di s do ordinates).					
Points	Longitude	Latitude			
BP-1	21°10'1.86"N	79°20'33.95"E			
BP-2	21°10'3.29"N	79°20'37.11"E			
BP-3	21°10'5.34"N	79°20'40.14"E			
BP-4	21°10'10.88"N	79°20'45.78"E			
BP-5	21°10'8.09"N	79°20'48.32"E			
BP-6	21°10'5.99"N	79°20'46.40"E			
BP-7	21°10'3.56"N	79°20'44.07"E			
BP-8	21°10'1.33"N	79°20'40.61"E			
BP-9	21°9'59.22"N	79°20'35.50"E			

(iii) Size of the Mining Lease (Hectare): 4.95

(iv) Capacity of Mining Lease (TPA): 14021 Brass

(v) Period of Mining Lease: 01 years

(vi) Expected cost of the Project: ~ INR 15,814,000/

(vii) Contact Information: District Mining Officer, Nagpur

(II) ENVIRONMENTAL SENSITIVITY

S. N	ITEMS	DETAILS
1.	Distance of project site from nearest rail or road bridge over the concerned River, Rivulet, Nalla etc.	Kanhan river Bridge, Mouda is \sim at 5.70km from sand ghat towards South.
2.	Distance from infrastructural facilities	

	Railway line	 Railway station/Railway line is not present
	• Kanway inie	within 2-5km of project site. Tarsa railway
		1 /
		station is at dis of \sim 7.27 km towards North.
	National Highway	NH-247 is present at an approx. distance of 5.8
		km in West of the sand ghat area.
		 SH253 at distance of ~4.30km towards East.
	State Highway	SH257 at distance of~ 5.27km towards North
	Major District Road	 Kiranapur village road is present at an approx.
	Any Other Road	distance of \sim 375 m in North of the sand ghat area
		which further connects to SH 253 and SH257
		towards East and North respectively.
	Electric transmission line pole or tower	• Nil
	Canal or check dam or reservoirs	• Nil
	or lake or ponds	
	 In-take for drinking water pump 	Kirnapur village,0.61km, West
	house.	Zullar village ,0.67km, South West Sukali village ,1.5 km ,North East
	 Intake for Irrigation canal pumps Areas protected under international 	
3.	conventions, national or local legislation for	
	their ecological, landscape, cultural or other related value	
	Areas which are important or sensitive for	
4.	ecological reasons - Wetlands, watercourses or other water bodies, coastal zone,	Kanhan River bed
	biospheres, mountains, forests Areas used by protected, important or	Nil
5.	sensitive species of flora or fauna for	
J.	breeding, nesting, foraging, resting, overwintering, migration	
6.	Inland, coastal, marine or underground	Kanhan River Bed
0.	waters State, National boundaries	Ni:1
7.	·	Nil
_	Routes or facilities used by the public for access to recreation or other tourist, Pilgrim	
8.	areas	 SH253 at distance of ~4.30km towards East.
9.	Defense installations	SH257 at distance of~ 5.27km towards North Nil
7.	Densely populated or built-up area, distance	Kirnapur village, 0.61km, West
10.	from nearest human habitation	 Zullar village ,0.67km, South West
		• Sukali village ,1.5 km ,North East
	Areas occupied by sensitive man-made land	<u>. </u>
11	uses(Hospitals, schools, places of worship,	
11.	community facilities)	 Sukali village ,1.5 km ,North East Small temple ,906m South in Zullar village
		PHC Mouda ,6km ,South
		Borkar hospital,6.14km, South

	Areas containing important, high quality or	Kanhan River (this is the case of river sandmining)
12.	scarce resources (ground water resources,	
12.	surface resources, forestry, agriculture,	
	fisheries, tourism, minerals)	
	Areas already subjected to pollution or	
13.	environmental damage. (Those where	
10.	existing legal environmental standards are	
	exceeded)	
		The mine lease area falls in Seismic Zone II (Least
	could cause the project to present	
14.	environmental problems	Map.
	(Earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse	
	climatic conditions)	
4.5	Is proposed mining site located over or near	This is River sand mining project.
15.	fissure / fracture for ground water recharge	Gr s)
	Whether the proposal involves approval or	No
	clearance under the following Regulations	
	or Acts, namely: -	
	(a) The Forest (Conservation) Act, 1980;	
16.	(b) The Wildlife (Protection) Act, 1972;	
	(c) The Coastal Regulation	
	Zone Notification, 2011.	
	If yes, details of the same and their	
	status tobe given.	
17.	Forest land involved (hectares)	No forest land involved
	Whether there is any litigation pending	No litigation pending against the project
	againstthe project and/or land in which the	and/or land in any court
	project is propose to be set up?	
18.	(a) Name of the Court	
	(b) Case No.	
	Orders or directions of the Court, if any,and	
	its relevance with the proposed project.	

"I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.

Date: __/12/2021

Environment Management Plan For

Mohkhedi Sand Ghat, Mouda Taluka, Nagpur District, State Maharashtra

Name of Sand Ghat	Tehsil	Name of river	Nearest Gut No.	Area in ha	Area in cum LxBxD (m3)	Availa ble Sand in Brass
Mohkhedi	Mouda	Kanhan	117,118 & 119	4.90	490x100x0.7	12120

Project Proponent District Mining Officer, Collector Office, Nagpur

Environment Consultant Open Arch Design and Enviro Solutions LLP



NABET/EIA/2124/IA0081

openarchdesign@gmail.com

Contact no.: 9004778386

December 2021

ENVIRONMENT MANAGEMENT PLAN

Name of Sand Ghat : Mohkhedi Sand Ghat over an extent of 4.90 ha. at Gut No. 117, 118

&119.

Taluka : Mouda

District : Nagpur (Maharashtra)

1. INTRODUCTION

The proposed mining method is of manual nature and the lease area is not so big. The Proposed project is river bed sand mining project of area of ha on Kanhan River, Gut No. 117,118 &119, village Mohkhedi, Tehsil Mouda, District Nagpur (Maharashtra). It has been proposed to collect approximately Brass/Annum of sand.

In this chapter, an attempt has been made to quantify the possible environmental impacts on various features such as air, water, noise, land, ecology and socio-economies. The following aspects have been studied to identify the possible impacts while achieving the total production of 12120 Brass per annum.

2. PURPOSE OF EMP

The purpose of an EMP is to

- Assists project proponent in the preparation of an effective and user-friendly activity chart for environment management.
- Ensure that the commitments made as part of the project's life are implemented throughout the project period.
- Ensure that environment management details is captured and documented at all stages of a project.

3. MATRIX FOR EMP

Environment Management plan matrix is given in Table no.1.

Table 1: Environmental Management Plan Matrix

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
1.	Air	1. Dust generation due to	1. 1.0 KLD water will be use	Unpaved Roads	Rs.50,000/- Water
	Environment	transportation material	for regular water	Water sprinkling will be done	sprinkling
		by 01 no of tractor	spraying of 1.10 km	for dust suppression for 1.10	
		trolley perday.	distance of road.	km distance from minesite.	Rs.20000/-
		2. In mining activities, the	Regularly road leveling	To maintain the uniform speed	Tarpaulin
		only source of gaseous	and maintenance will be	of the trucks/tippers. Leveling	
		emissions is from the	done.	will be done.	Rs 45000/- is
		engines of transport	Loading material will be	Paved Roads	proposed for
		vehicles.	covered with tarpaulin	The roads will be maintained	baseline data for
			and overloading will be	regularly. Limited speed will be	one time.
			avoided.	adopted by transportvehicles.	
			2. PUC certified vehicles will	The loaded vehicles will be	
			beused for transportation	covered withtarpaulin.	
			and run under limited	Transportation vehicles	
			speed. Regular	The vehicles will be kept at	
			maintenance will be done	good condition by regular	
			of vehicles.	servicing and maintenance.	
			3. In addition to prevent	PUC certified vehicle will be	
			spillage by tractor trolleys	used. Overloading will be	
			over loading should be	avoided. Air monitoring will be	
			controlled along with	done to check the criteria of	
			speed limit (1Brass	air pollutants.	



#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
			/tractor trolley).		
	source air pollu However, the m	tion. The proposed mining operat	ions are not anticipated to raise that any harmful impacts of pollutant	and emission from transportation vente ne concentration of the pollutants bey ts like planning transportation route wer loading.	ond prescribed limits.
2	Noise Environment	1 no of tractor trolley and a tractor for water sprinkling will be source of noise pollution. The impact of noise pollution will be for very short time. No machinery will be use for mining operation.	Noise generated by the transport vehicle will be intermittent and for very short time, it will not cause much adverse impact. Vehicles will be maintained to avoid unnecessary noise. Periodical monitoring of noise will be done to adopt corrective actions wherever needed. Mining shall not be carried out night time, only permitted for day time. No heavy machinery is allowed for excavation only tractor with trolley will be used for transportation of sand from river bed	Vehicle to be maintained in good condition to avoid unnecessary noise. Timely maintenance of vehicles and their silencers to minimize vibration and Sound. Road leveling will be done time to time. Phasing out of old and worn-out tractor trolleys. Provision of green belts along the road networks. Care to be taken to produce minimum sound during sand loading. Use of Backhoe and ear plugs may be provided to protect the labours working at the site. Minimum use of Horns in village area.	Rs 25000/- is proposed for baseline data for one time



#	Particulars	Impact	Mitigations Measures	Management Plan	Budget
	speed of vehicles	and regular maintenance of vehi	cles and approach road.	,	
3.	Water Environment	Ground water: Ground water will not be intersected during mining work. No waste water will be generated from the mining activity of minor minerals as the project only involves lifting of sand from river quarry in dry state. Surface water: no impact anticipated for surface water.	Mining activity will not intersect toground water. Water requirement of 0.50 KLD for domestic and 1.0 KLD for water sprinkling will be met through water tanker. Low water demand will not be affected to ground water. Mobile Toilets will be provided for waste water and Domestic waste to be collected in dust bins and handed over to the local authority for disposal. Mining activity will be done	Mining is stopped during the monsoon season and at the time of floods. This helps in replenishment of sand in the riverbed. Worker to be advised for use the waste bin and Mobile toilets.	Mobile toilet: Rs. 1,20,350/- Waste bin: Rs 350/-
		· ·	9	ot be intersected hence there will workers to use the dust bin to dispo	•
4	Land Environment	Road will be degraded due to transportation. River course erosion due to mined out sand from river.	Regular water sprinkling will be done. Road of 1.10 km length will be maintained in good condition by using local earth material.	Mining activity will be done as per Rule 23 of MMME (D&R) Rule 2013 and Maharashtra Sand policy 03.09.2019. Mining activity will be done up	Rs. 45,750/- Roadmaintenance

#	Particulars	Impact	Mitigations Measures	Management Plan	Budget		
			Mining activity will be done in 49000 sq m area. Sand from river will be restricted to maximum depth of 0.40 m as per GSDA survey. Mining activity will not be carried near the river banks. Mining activity will be carried indry bed only. Monitoring will be done to meet the criteria of parameters as per norms of CPCB/ SPCB.	to 0.40 m depth and dry bed only. Mining will not be done near river banks.			
		kers working with prescribed ma	,	nobile toilet to prevent disposal of so	lid waste and waste		
5	Biological Environment	No impact anticipated on biological environment due to proposed mining activity as mining activity will be carried out in running dry river bed. Suspended particulates are only source, which has the impact on nearby crops. Pit developed due to mining may be dangerous	1 tractor trip per day will be use for transportation of sand. Protective measures like water spraying on unpaved road, leveling of unpaved road and sand covered after loading will be used to prevent.	Water spraying on haul road and time to time maintenance will be done to avoid dustgeneration. Greenbelt Development and Bio-Diversity Preservation Plantation activities will be carried out at the bank of the river and along the haul roads. This activity will help for maintaining ecology and environment of the area.	Rs.5 0 ,000/- water sprinkling		



#	Particulars	Impact	Mitigations Measures	Management Plan	Budget								
		for animals.											
	Conclusions: Not any impact is anticipated on nearby fauna and Flora due to proposed mining activity. Suggested to lease adopt the mitigation measures for dust suppression.												
6.	Socio- Economic Environment	Negative impact is not anticipated on socio-economic environment. Positive impact due to proposed mining activity are employment, availability of sand.	Employment will be given to localpeople for unskilled and skilled labors.	Preference to be given to local people.									
	Conclusion: Preference given	to local people for employment a	as labor.										
7	Occupational Health & Safety	On site anticipated hazards are health issue due to dust, dehydration, heat expose and rest shed. Accident from spades and heavy boulder.	First aid box to be provided for initial treatment. Temporary shed will be provided. Notice board will be placed at mining site, and guard will be posted in three shifts to prevent any accident.	First aid and sanitary facility provide to workers.	Total Amount: Rs 133200/- Rs 2500/- for First Aid Box Rs 2000/- Personal Protective Equipment Rs 8000/- For Temporary shed Rs.120350/- Mobile Toilet Rs 350/- waste bin								
	Conclusion: Suggested to prov	rided First aid and sanitary facilit	y to workers.	•	•								



#	Particulars	Impact	Mitigations Measures	Management Plan	Budget							
8.	Waste/ Overburden	No waste will be generated from miningof mineral. Overburden or top soil is absent in the proposed river sand project.	No waste/ overburden will be generated from the river sand mining project.	No waste/ overburden will be generated, thus management plan is not applicable. Domestic waste generated to be collected in dust bins and handed over to the local authority for disposal.								
	Conclusion: Waste is not anticipated in River sand mining activity as well as top soil and overburden also absent in the proposed river sand project.											

4. FUND PROVISION FOR EMP

Following provisions are proposed to be taken for improving, control and monitoring of environment protection measures. Fund provision for EMP is given in below.

Table 2: Environmental Management Plan Budget

S No	Particulars	Amount in Rs
1.	Environment Monitoring (Air, Water, Soil and Noise)	85000
2.	Water Sprinkling	75000
3.	Unpaved/ Haul Road maintenance	55750
4.	Occupational Health & safety	157250
5.	Tarpaulin	20000
6.	Plantation	15000
7.	Security	10000
	Total	418000

APPENDIX VIII (See paragraph 6) FORM 1 M

APPLICATION FOR MINING OF MINOR MINERALS UNDER CATEGORY 'B2' FOR LESS THAN AND EQUAL TO FIVE HECTARE

(I) BASIC INFORMATION

(i) Name of the Mining Lease site: Mohkhedi Sand Ghat over an extent of 4.90 ha. at Gut No. 117, 118 & 119, Village Mohkhedi, Tehsil Mouda, District- Nagpur, Maharashtra.

(ii) Location / site (GPS Co-ordinates):

Points	Longitude	Latitude				
BP-1	21°5'57.24"N	79°26'45.18"E				
BP-2	21°5'54.85"N	79°26'47.70"E				
BP-3	21°5'59.47"N	79°26'53.46"E				
BP-4	21°6'5.32"N	79°26'56.69"E				
BP-5	21°6'8.23"N	79°26'53.83"E				
BP-6	21°6'4.74"N	79°26'51.92"E				
BP-7	21°6'1.15"N	79°26'49.32"E				

(iii) Size of the Mining Lease (Hectare): 4.95

(iv) Capacity of Mining Lease (TPA): 12120 Brass

(v) Period of Mining Lease: 01 years

(vi) Expected cost of the Project: INR 15,814,000/

(vii) Contact Information: District Mining Officer, Nagpur

(II) ENVIRONMENTAL SENSITIVITY

S. N	ITEMS	DETAILS
1.	Distance of project site from nearest rail or road bridge over the concerned River, Rivulet, Nalla etc.	Kanhan Bridge is 7.23km from sand ghat, North
2.	Distance from infrastructural facilitiesRailway lineNational Highway	 Railway station/Railway line is not present within 2-5km of project site. AH-46/NH-53 is present at an approx. distance of 5.46 km in North of the sand ghat area.

	State Highway	SH253 at distance of 8.5km towards North West.
	Major District Road	Bhandara road is present at an approx. distance
	Any Other Road	of 6.12 km in North of the sand ghat area
	7 my other road	 Approach road 66m towards North East which
		further connects to Bhandara road towards
	Electric transmission line pole or	
	tower	North at distance of 6.12km.
	Canal or check dam or reservoirs	• Nil
	or lake or ponds	• Nil
	 In-take for drinking water pump 	Mohkhedi village,1.89km, West
	house.Intake for Irrigation canal pumps	Wadhana village,1.06km, North
	Areas protected under international	
3.	conventions, national or local legislation for their ecological, landscape, cultural or other	
	related value	
4	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses	
4.	or other water bodies, coastal zone, biospheres, mountains, forests	Nag river at distance of 1km towards South of project
	Areas used by protected, important or	
5.	sensitive species of flora or fauna for breeding, nesting, foraging, resting,	
	overwintering, migration	
6.	Inland, coastal, marine or underground waters	Kanhan River Bed
7.	State, National boundaries	Nil
	Routes or facilities used by the public for	
8.	access to recreation or other tourist, Pilgrim areas	North of the sand ghat area
9.	Defense installations Densely populated or built-up area, distance	Nil Mohkhedi village,1.89km, West
10.	from nearest human habitation	Wadhana village,1.06km, North
	Areas assumind by sonsitive man made land	Mohlyhodi villaga 1 00lym West
11.	Areas occupied by sensitive man-made land uses(Hospitals, schools, places of worship,	 Wadhana village,1.06km, North
	community facilities)	Small temple at dis. 2.75 km Southwest
	Areas containing important, high quality or scarce resources (ground water resources,	Kanhan River (this is the case of river sandmining)
12.	surface resources, forestry, agriculture,	
	fisheries, tourism, minerals) Areas already subjected to pollution or	The area is not subjected to the pollution
13.		The area is not subjected to the pollution or environmental damage.
13.	existing legal environmental standards are	
	exceeded) Areas susceptible to natural hazard which	The mine lease area falls in Seismic Zone II (Least
	could cause the project to present	Active), according to theIndian Standard Seismic Zoning
14.	environmental problems (Earthquakes, subsidence, landslides,	Мар.
	erosion, flooding or extreme or adverse	
15	climatic conditions) Is proposed mining site located over or near	This is River sand mining project.
15.	1 -1 -1 0	

		<u></u>
	fissure / fracture for ground water recharge	
	Whether the proposal involves approval or	No
	clearance under the following Regulations	
	or Acts, namely: -	
	(a) The Forest (Conservation) Act, 1980;	
16.	(b) The Wildlife (Protection) Act, 1972;	
	(c) The Coastal Regulation	
	Zone Notification, 2011.	
	If yes, details of the same and their	
	status tobe given.	
17.		No forest land involved
17.	, ,	
	Whether there is any litigation pending	No litigation pending against the project
	against the project and/or land in which the	and/or land in any court
	project is propose to be set up?	
18.	(a) Name of the Court	
	(b) Case No.	
	Orders or directions of the Court, if any, and	
	its relevance with the proposed project.	

"I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.

Date: __/12/2021

कार्यकारी सारांश

रेती उत्खननाच्या पर्यावरणीय व्यवस्थापन आराखडयाचा मसुदा

जिल्हा — नागपूर, महाराष्ट्र राज्य

नागपूर जिल्हयातील प्रस्तावित २८ रेती घाटांच्या पर्यावरणीय जनसुनावणीकरिता

प्रकल्प प्रवर्तक

जिल्हा खनिकर्म अधिकारी, जिल्हाधिकारी कार्यालय, नागपूर

पर्यावरण सल्लागार Open Arch Design and Enviro Solutions LLP



NABET/EIA/2124/IA0081

openarchdesign@gmail.com

Contact no.:9004778386

१.० प्रस्तावना

मा. जिल्हाधिकारी नागपूर यांनी रेती/वाळू निर्गमीतीचे धोरण दि.०३.०९.२०१९ अनुसार २८ रेती घाट उत्खननासाठी प्रस्तावित केलेले असून जिल्हा खनिकर्म अधिकारी नागपूर यांना विविध अनुमती घेणेकरिता प्रकल्प प्रवर्तक म्हणून नेमलेले आहे.

सदर २८ रेती घाट तालुकास्तरावर मा. तहसीलदार यांच्या अध्यक्षतेखाली नेमलेल्या व भुवैद्यन्यानिक, म. प्र.नि.म. यांचे प्रतिनिधी, जलसंधारण विभागाचे प्रतिनिधी असलेल्या तालुका तांत्रिक समिती द्वारे ओपन कास्ट पध्दतीने घमेले, पावडे यांच्या साहा: यांने उत्खनन करण्याचे प्रस्तावित केलेले आहे.

पर्यावरण अनुमतीसाठी प्रस्तावित २८ रेती घाटांची यादी खालील प्रमाणे आहे.

S. No.	Name of Sand Ghat	Name of Village	Taluka	Nearest Gut. No.	Name of River/ Stream	Dimension of sand Gat in Cum			Are of San d Ghat in Ha	Sand Propose d for scoping in Brass	Wid th of appr och road	Leng th of appr och Road	No. of worke rs	No. of Tracto res	No. of trees along bank and trasport ion road	Water requir ement in cum/d ay	EMP cost in Rs.
1	Ghatro hna	Ghatrohna	Parseo ni	53 (Part),52, 46, 45(Part)	Pench	500	60	0.4	3	4240	3-6 m	360	13	4	501	2.44	4,19,100/-
2	Singar	Singardip	Parseo	,							3-6						•
-	dip	D 1	ni	80,81 and 82	Kanhan	550	80	0.3	4.4	4664	m	250	13	5	480	2.5	3,40,500/-
3	Palora	Palora	Parseo ni	43 (Part)	Pench	250	80	0.4	2	2826	3-6 m	260	13	3	378	1.75	2,63,100/
4	Pipla	Pipla	Parseo ni	353 (Part), 354 (Part)	Pench	215	90	0.4	1.93	2734	3-6 m	500	13	2	300	2.2	2,18,500/-
5	Sihora	Sihora	Parseo	170/1,170/2							3-6						•
			ni	(Part)	Kanhan	500	90	0.3	4.5	4770	m	700	13	5	850	2.5	3,44,500/-
6	Wagh oda	Waghoda	Parseo ni	127/1 (Part)	Pench	334	120	0.9	4	12746	3-6 m	800	13	7	980	3.1	6,90,200/-
7	Yesam	Yesamba	Parseo								3-6						
	ba		ni	207 (Part)	Pench	210	75	0.9	1.57	5008	m	530	13	4	655	2.3	5,83,900/-
8	Garad	Garada	Parseo	10165	5 1				0.0	=0.4=	3-6		10	_	0.40	0.6	
0	a C-ll:	C - l l:	ni	104(Part)	Pench	400	80	0.7	3.2	7915	m	720	13	5	840	2.6	7,57,700/-
9	Saholi- A	Saholi	Parseo ni	15, 16, 17, 18 & 19 (Part)	Kanhan	500	50	0.8	2.5	7067	3-6 m	370	13	5	585	2.7	3,35,000/-
10	Saholi-	Saholi	Parseo	115/2, 112/2,	Kamian	300	30	0.0	2.3	7007	3-6	370	13	3	303	2.7	3,33,000/
	В		ni	136/2, 141/2	Kanhan	600	60	1	3.6	12720	m	800	13	8	920	3.5	6,13,900/-
11	Paradi	Paradi K	Parseo	153							3-6						•
	K		ni		Kanhan	450	100	0.8	4.5	12720	m	750	13	4	890	3.5	5,98,100/-
12	Juni	Juni Kamthi	Parseo	0000010100							0.6						
	Kamth i		ni	230,240/2(Part	Kanhan	200	100	0.8	2	5653	3-6	680	13	4	799	3	210500/
13	Riwad	Riwadi	Saone	179,180,183,18	Kalillali	200	100	0.6		3033	m 3-6	000	13	4	799	3	2,18,500/-
13	i	Riwaui	r	4,&186	Kanhan	450	75	0.4	3.37	4770	m	900	13	4	1000	3	248500/-
14	Wako di	Wakodi	Saone	44 (Part)	Kanhan	500	70	0.4	3.5	4946	3-6	580	13	4	760	3	248500/-
15	Ramd	Ramdongri	r Saone	44 (rait)	Kallilail	300	/ 0	0.4	3.3	4940	m	360	13	4	700	3	440300/-
13	ongri-	Namuungii	r	143 (Part)							3-6						
	В			&144(Part)	Kanhan	400	100	0.3	4	4240	m	890	13	4	999	3	393950/-
16	Karajg	Karajghat	Saone	1765		45.5			0.75	,	3-6						2000521
17	hat	Γ	r	15(Part)	Kanhan	470	75	0.4	3.52	4982	m	700	13	3	850	3	390000/-
17	Esapu r	Esapur	Saone r	90 (Part),93,94,11	Kanhan	475	80	0.45	3.8	6042	3-6 m	340	13	4	510	3	393950/-

S. No.	Name of Sand Ghat	Name of Village	Taluka	Nearest Gut. No.	Name of River/ Stream	Dimen Gat in	nsion of Cum	sand	Are of San d Ghat in Ha	Sand Propose d for scoping in Brass	Wid th of appr och road	Leng th of appr och Road	No. of worke rs	No. of Tracto res	No. of trees along bank and trasport ion road	Water requir ement in cum/d ay	EMP cost in Rs.
				5&116													
18	Rohan a	Rohana	Saone r	168, 3 (Part), 7B (Part)	Kanhan	350	60	0.5	2.1	3710	3-6 m	430	13	4	620	3	2,18,500/-
19	Bawan gaon- A	Bawangaon	Saone r	252&253	Kanhan	243	80	0.4	1.94	2747	3-6 m	320	13	3	460	3	2,18,500/-
20	Gosew adi-A	Gosewadi	Saone r	285,286 & 287 (Part)	Kanhan	420	100	0.5	4.2	7420	3-6 m	370	13	5	480	3.4	3,28,500/-
21	Bawan gaon- B	Bawangaon -B	Saone r	20,32,04,208	Kanhan	450	60	0.6	2.7	5724	3-6 m	760	13	4	535	2.4	3,52,500/-
22	Chikn aghat	Chiknaghat	Mouda	543/1,542,541, 543/2	Kanhan	540	90	0.6	4.86	10303	3-6 m	690	13	3	890	3	418000/-
23	Kiranp ur	Kiranpur	Mouda	103, 104, 105, 107, 109, 110, 111, 113, 115, 116, 117, 118, 119, 4 & 5	Kanhan	620	80	0.8	4.95	14021	3-6 m	680	13	4	810	3	418000/-
24	Mohk hedi	Mohkhedi	Mouda	117, 118 & 119	Kanhan	490	100	0.7	4.9	12120	3-6 m	350	13	3	480	3	418000/-
25	Unaga on	Unagaon	Kampt ee	212,217,218,21 9,222,211 (Part)	Kanhan	650	74	0.3	4.81	5098	3-6 m	300	13	3	520	3	418000/-
26	Chikn a A	Chikna A	Kampt ee	8,9/1,9/2,10/1, 10/2,11,12 (Part)	Kanhan	450	50	0.5	2.25	3975	3-6 m	980	13	4	900	2.5	3,38,200/-
27	Neri Ghat	Neri Ghat	Kampt ee	217/2/3, 219, 220, 221/1/2, 223, 224/1 (Part)	Kanhan	565	86	1.5	4.85	25754	3-6 m	450	13	3	790	3	418000/-
28	Chichg hat	Chichghat	Kuhi	43	Kanhan	300	100	0.5	3	5300	3-6 m	230	13	3	420	3	248500/-

• रेतीघाटांसाठी प्राप्त आवश्यक अनुमती/परवानग्या व गोषवारा.

प्रकल्प प्रवर्तक	जिल्हा खनिकर्म अधिकारी, नागपूर
प्रकल्प स्थिती	नवीन, प्रस्तावित रेती घाट
उत्खनन करावयाचे खनिज	रेती / वाळू
रेतीघाट प्रस्तावित करणारी समिती	मा. तहसीलदार यांच्या अध्यक्षतेखाली
	नेमलेल्या व भुवैद्यन्यानिक, म.प्र.नि.म.
	यांचे प्रतिनिधी, जलसंधारण विभागाचे
	प्रतिनिधी असलेल्या तालुका तांत्रिक
	समिती
ग्रामपंचायत ना हरकत	ग्रामपंचायतींकडून वाळू निर्गमीतीच्या
	धोरणानुसार प्राप्त
उत्खननाकरिता ठरवून दिलेला कालावधी	दि. १० जुन ते ३० सप्टेंबर पर्यंतचा
	मान्सून कालावधी वगळता जास्तीत
	जास्त १ वर्ष.

•प्रस्तावित व उत्खनन पध्दतः

रेती उत्खनन टोपले, पावडे द्वारे मजुरांकरवी करण्याचे प्रस्तावित आहे.

- अ. मातीचे ढिगारा किंवा मातीचे उत्खनन करता येणार नाही.
- ब. रेती उत्खनन टोपले, पावडे द्वारे मजुरांकरवी करण्याचे प्रस्तावित आहे.
- क. उचललेली रेती ट्रॅक्टर द्वारे वाहण्याचे प्रस्तावित आहे.
- ड. ट्रॅक्टर वगळता कोणतीही अवजड व यांत्रिक मशीनरी उपयोगात आणता येणार नाही.
- इ. उत्खननाकरिता ठरवून दिलेला कालावधी हा दि. १०जून ते ३० सप्टेंबर पर्यंतचा मान्सून कालावधी वगळता जास्तीत जास्त १ वर्षाकरिता प्रस्तावित आहे.

•वायू प्रदूषण उपाय योजना

अ.	प्रदूषणाचे स्त्रोत	अपेक्षित परिणाम	व्यवस्थापन योजनाा
क .			
१	ट्रान्सपोर्ट रोड⁄रेती वहन मार्ग	हवा गुणवत्ता/जिमन रास्ता मजबूती रस्त्याचा —हास	 वहन मार्गाचे मजबूती करण वहन मार्गाची देखभाल ट्रक्टर मध्ये मान्यता क्षमतेनुसार खनिज वहन उत्खनन कालवाधी दरम्यान हवा दर्जा उत्खनन कालवाधी दरम्यान हवा दर्जा तपासणी
२	ट्रक /ट्रक्टर यांचे चलन	हवा दर्जा / गुणवत्ता	 मान्यता प्राप्त क्षमते पेक्षा ट्रक्टर मध्ये खिनज न भरणे. रेती वाहन करणा—या ट्रॅक्टर ट्रॉलीज टरपोलिन ने वहन दरम्यान झाकणे. वाहनांना गती नियंत्रक बसविणे. रेती घाटावर रेती ट्रॅक्टर मध्ये भरताना इंजिन बंद ठेवणे.
3	रेती घाट व रेती घाट मार्ग	उत्खनन प्रक्रिया	 रेतीघाट होलेज मार्गाची वारंवार दुरुस्ती व देखभाल . कामगारांना डस्ट मास्क देणे. रेती उत्खनन व वहन दिवसांच करणे.
8	नदी किना—याचे व्यवस्थापन	नदी किना—याची झीज पूर रेषा व्यवस्थापन	 नदी किना—यावर झाडे लावणे. नदी किना—याच्या उतारावर हिरवळ ग्रास लावणे.

٧.	धूळ कन श्वसन विषयी व्यवसाय सुरक्षितता, आरोग्य व सेवा योजना		कामगारांसाठी पयावरण पूरक व सुरक्षित वातावरण तयार करणे. असे वातावरण व उपाययोजना अमल बजावणीसाठी मान्यता प्राप्त निविदाधारक /ठेकेदार उपायोजना
			करेल. कामगारांना वैयक्तिक संरक्षण उपकरणे प्रदान करण्याचे प्रस्तावित आहे. कामगारांना आवश्यक प्रशिक्षण देण्याचे प्रस्तावित आहे.
		•	प्रस्तावित आहे. प्रथोमपचार पेटी, पिण्या योग्य पाणी, तात्पुरत्या निवार्याची सोय करण्याचे प्रस्तावित.

• व्यवसाय, आरोग्य व सेवा योजना

• ध्वनी प्रदूषण

- कामगारांना कांन बुचे देण्याचे प्रस्तावित आहे.
- ट्रॅक्टर / ट्रक व्यतिरिक्त कोणत्याही ध्वनी प्रदूषण करणा—या मशीनरी प्रतिबंधीत आहेत.
- ट्रॅक्टर चे इंजिने रेतीघाटावर रेती भरते वेळेस बंद ठेवण्यात येईल.
- कामगारांना व अभ्यंगताना वैयक्तिक संरक्षक उपकरणे देण्यात येईल.

• वाहतूक व्यवस्थापन

- खिनज वाहतूक करणारे वाहन फॉरेस्ट व महसूल विभागाकडे नोंदणीकृत करणे प्रस्तावित आहे.
- अशा सर्व वाहनाकडे प्रदूषण नियंत्रण प्रमाणपत्र असण्याचे बंधनकारक असेल.
- अशी सर्व वाहने ध्वनी उत्सर्जन व धूळ / इतर उत्सर्जन संबंधी मानक द्वारे उच्च प्रतीच्या देखभाली खाली प्रमाणित असतील.
- असे सर्व वाहनचालक वाहतुकीसंबंधी नियमांचे पालन करण्यास बध्य असतील.
- अशा सर्व वाहनांची गती नियंत्रित केलेली असेल.
- क्षमतेपेक्षा जास्त खनिजाचे वाहन करता येणार नाही.
- खनिज वाहन करणा—या वाहनांचे खनिज टरपोलिन ने झाकण्याचे प्रस्तावित आहे.
- इतर रेती ठेकेदरांसोबत समनव्य साधून रेतीचे वाहन करण्याचे प्रस्तावित आहे जेणेकरून वाहतुकीचा खोळंबा होणार नाही.

• वृक्षारोपण योजना

- मान्सून दरम्यान दि. १० जून ते ३० सप्टेंबर नदी किना—यावर व वाहन मार्गावर झाडे लावण्याचे प्रस्तावित आहे.
- नीम, पिंपळ, करंज, गुलमोहर अशी स्थानिक झाडे लावण्याचे प्रस्तावित आहे.
- मान्य निविदाधारक / रेती ठेकेदार हया पर्यावरण व्यवस्थापन योजनेचे टेबल करा. १
 अनुसार दिलेल्या व्यवस्थापन अंदाजानुसार क्रियान्वयन करण्याचे प्रस्तावित आहे.
- मान्य निविदाधारक /रेती ठेकेदार सादर पर्यावरण व्यवस्थापन योजना क्रियान्वयनाचा अनुपालन अहवाल जिल्हा खनिकर्म अधिकारी, तत्सम तहसीलदार यांना सादर करेल.
- जिल्हा खिनकर्म अधिकरी / तत्सम तहसीलदार हा पर्यावरण व्यवस्थापन योजनेच्या क्रियान्वयनाची वेळोवेळी खात्री करतील व मा. जिल्हा अधिकारी यांच्या अध्यक्षतेखाली समितीला अहवाल वाळू निर्गमीती च्या धोरण मध्ये सुचविल्याप्रमाणे सादर करतील.

Executive Summary on Environment Management Plan

For

Sand Ghats

At

Nagpur District, State Maharasthra

For

Public Hearing for 28 Sand Ghats

Project Proponent

District Mining Officer, Collector Office, Nagpur

Environment Consultant
Open Arch Design and Enviro Solutions LLP



NABET/EIA/2124/IA0081

openarchdesign@gmail.com

Contact no.:9004778386

1. Introduction:

District Collector, Nagpur intends to auction sand ghats and appointed District Mining Officer, Nagpur as project proponent as per Sand Mining Guidelines dated 03^{rd} September 2019.Total 28 sand ghats are identified by Taluka level Technical committee chaired by Tehsildar and Dy. Engineer, Irrigation and Junior Geologist, Directorate of Geology and Mining, Junior Geologist G.S.DA., representative of Maharashtra Pollution Control Board for scoping of sand by manual method.

List of Sand ghats proposed for auction prior Environment Clearance are as given below in Table no. 1.0:

Table 1.0 Details of Sand Ghats

S. No.	Name of Sand Ghat	Name of Villag e	Taluk a	Nearest Gut. No.	Name of River/ Stream		nsion o Gat in C	_	Are of San d Gha t in Ha	Sand Propos ed for scopin g in Brass	Wi dth of app roc h roa d	Lengt h of appro ch Road	No. of work ers	No. of Tracto res	No. of trees along bank and trasport ion road	Water require ment in cum/da y	EMP cost in Rs.
1	Ghatrohna	Ghatr ohna	Parseo ni	53 (Part),52, 46, 45(Part)	Pench	500	60	0.4	3	4240	3-6 m	360	13	4	501	2.44	4,19,100/
2	Singardip	Singar	Parseo	10, 15(1 arc)	1 CHCH	300	00	0.1		1210	3-6	300	13	1	301	2.11	3,40,500/
<u> </u>	Siligaruip	dip	ni	80,81 and 82	Kanhan	550	80	0.3	4.4	4664	m	250	13	5	480	2.5	-
3	Palora	Palor	Parseo	00,01 and 02	Raman	330	00	0.5	1.1	1001	3-6	250	15	3	100	2.3	
l I	Turoru	a	ni	43 (Part)	Pench	250	80	0.4	2	2826	m	260	13	3	378	1.75	2,63,100/
4	Pipla	Pipla	Parseo	353 (Part),							3-6						2,18,500/
ļ Ī	•	•	ni	354 (Part)	Pench	215	90	0.4	1.93	2734	m	500	13	2	300	2.2	- ,
5	Sihora	Sihor	Parseo	170/1,170/2							3-6						3,44,500/
<u> </u>		a	ni	(Part)	Kanhan	500	90	0.3	4.5	4770	m	700	13	5	850	2.5	-
6	Waghoda	Wagh	Parseo								3-6						6,90,200/
 		oda	ni	127/1 (Part)	Pench	334	120	0.9	4	12746	m	800	13	7	980	3.1	-
7	Yesamba	Yesa	Parseo								3-6						5,83,900/
		mba	ni	207 (Part)	Pench	210	75	0.9	1.57	5008	m	530	13	4	655	2.3	-
8	Garada	Garad	Parseo	104(D)	D 1	400	00	0.7	2.2	7015	3-6	720	10	_	0.40	2.6	7,57,700/
9	Saholi-A	a Saholi	ni Parseo	104(Part) 15, 16, 17, 18	Pench	400	80	0.7	3.2	7915	m 3-6	720	13	5	840	2.6	3,35,000/
9	Salloll-A	Sanon	ni	& 19 (Part)	Kanhan	500	50	0.8	2.5	7067	m	370	13	5	585	2.7	3,33,000/
10	Saholi-B	Saholi	Parseo	115/2, 112/2,	Kaiiiaii	300	30	0.0	2.3	7007	3-6	370	13		303	2.7	6,13,900/
10	balloll B	Sanon	ni	136/2, 141/2	Kanhan	600	60	1	3.6	12720	m	800	13	8	920	3.5	-
11	Paradi K	Parad	Parseo	153		000			0.0	12/20	3-6	000	10	<u> </u>	720	0.0	5,98,100/
I		i K	ni		Kanhan	450	100	8.0	4.5	12720	m	750	13	4	890	3.5	-
12	Juni	Juni	Parseo														
ļ Ī	Kamthi	Kamt	ni	230,240/2(Pa							3-6						2,18,500/
ļ		hi		rt	Kanhan	200	100	0.8	2	5653	m	680	13	4	799	3	-
13	Riwadi	Riwad	Saoner	179,180,183,1							3-6						
 		i		84,&186	Kanhan	450	75	0.4	3.37	4770	m	900	13	4	1000	3	248500/-
14	Wakodi	Wako di	Saoner	44 (Part)	Kanhan	500	70	0.4	3.5	4946	3-6 m	580	13	4	760	3	248500/-

S. No.	Name of Sand Ghat	Name of Villag e	Taluk a	Nearest Gut. No.	Name of River/ Stream		nsion o Gat in C		Are of San d Gha t in Ha	Sand Propos ed for scopin g in Brass	Wi dth of app roc h roa d	Lengt h of appro ch Road	No. of work ers	No. of Tracto res	No. of trees along bank and trasport ion road	Water require ment in cum/da y	EMP cost in Rs.
15	Ramdongri -B	Ramd ongri	Saoner	143 (Part) &144(Part)	Kanhan	400	100	0.3	4	4240	3-6 m	890	13	4	999	3	393950/-
16	Karajghat	Karaj ghat	Saoner	15(Part)	Kanhan	470	75	0.4	3.52	4982	3-6 m	700	13	3	850	3	390000/-
17	Esapur	Esapu r	Saoner	90 (Part),93,94,1 15&116	Kanhan	475	80	0.45	3.8	6042	3-6 m	340	13	4	510	3	393950/-
18	Rohana	Roha na	Saoner	168, 3 (Part), 7B (Part)	Kanhan	350	60	0.5	2.1	3710	3-6 m	430	13	4	620	3	2,18,500/
19	Bawangaon -A	Bawa ngaon	Saoner	252&253	Kanhan	243	80	0.4	1.94	2747	3-6 m	320	13	3	460	3	2,18,500/
20	Gosewadi- A	Gose wadi	Saoner	285,286 & 287 (Part)	Kanhan	420	100	0.5	4.2	7420	3-6 m	370	13	5	480	3.4	3,28,500/
21	Bawangaon -B	Bawa ngaon -B	Saoner	20,32,04,208	Kanhan	450	60	0.6	2.7	5724	3-6 m	760	13	4	535	2.4	3,52,500/
22	Chiknaghat	Chikn aghat	Mouda	543/1,542,54 1,543/2	Kanhan	540	90	0.6	4.86	10303	3-6 m	690	13	3	890	3	418000/-
23	Kiranpur	Kiran pur	Mouda	103, 104, 105, 107, 109, 110, 111, 113, 115, 116, 117, 118, 119, 4 & 5	Kanhan	620	80	0.8	4.95	14021	3-6 m	680	13	4	810	3	418000/-
24	Mohkhedi	Mohk hedi	Mouda	117, 118 & 119	Kanhan	490	100	0.7	4.9	12120	3-6 m	350	13	3	480	3	418000/-
25	Unagaon	Unaga on	Kampt ee	212,217,218,2 19,222,211 (Part)	Kanhan	650	74	0.3	4.81	5098	3-6 m	300	13	3	520	3	418000/-
26	Chikna A	Chikn a A	Kampt ee	8,9/1,9/2,10/ 1,10/2,11,12	Kanhan	450	50	0.5	2.25	3975	3-6 m	980	13	4	900	2.5	3,38,200/

Environmental Management Plan

S. No.	Name of Sand Ghat	Name of Villag e	Taluk a	Nearest Gut. No.	Name of River/ Stream		nsion o Gat in C		Are of San d Gha t in Ha	Sand Propos ed for scopin g in Brass	Wi dth of app roc h roa d	Lengt h of appro ch Road	No. of work ers	No. of Tracto res	No. of trees along bank and trasport ion road	Water require ment in cum/da y	EMP cost in Rs.
				(Part)													
27	Neri Ghat	Neri Ghat	Kampt ee	217/2/3, 219, 220, 221/1/2, 223, 224/1 (Part)	Kanhan	565	86	1.5	4.85	25754	3-6 m	450	13	3	790	3	418000/-
28	Chichghat	Chich ghat	Kuhi	43	Kanhan	300	100	0.5	3	5300	3-6 m	230	13	3	420	3	248500/-

2. Status of Statuary Clearances for Sand Ghat

The status of Statuary Clearances for Sand Ghat is given below in Table no .2.0

Table 2.0: Status of Statuary Clearances for Sand Ghat

S. No	Particulars	Details
1	Name and address of Allottee	District Mining Officer, Nagpur/Successful Bidder Nagpur District, Nagpur.
2	Status of lease	New, Individual /Project Proponent/Successful Bidder for auction of sand ghat by District Collector, Nagpur
3	Mineral for which lessee intends to mine	Ordinary Sand for Construction purpose
4	Name and Address of Prospecting Agency	Taluka Level Technical Committee chaired by Tehsildar and Dy. Engineer Irrigation, Junior Geologist, Directorate of Geology and Mining, Junior Geologist G.S.DA., representative of Maharashtra Pollution Control Board.
5	Gram Panchayat NOC	Received from Gramsabha as per Public consultation procedure defined in Sand Mining Guidelines of Maharashtra State dated 03 rd September 2019.
6	Plan Period for activity	Upto one year from the date of allocation of Sand ghat or upto scoping of Allotted /Permitted quantity mined out which ever is earlier excluding stipulated monsoon period between 10 June to 30 September.

3. Method Of Mining

The mining will be manual opencast mining method of scoping using simple tool like spade/pawada.

- a. Overburden/Soil Removal No Overburden/Soil is anticipated
- b. Scooping of Sand/Loading

 The ordinary sand will be loaded manually by labour
- The ordinary sand will be loaded manually by labours c. Hauling
- Ordinary sand is transported through the tractors/trucks with permissible quantity. d. No machinery will be utilized.
- e. Period of scooping of sand will be for one year excluding monsoon period of 10^{th} June 30^{th} September or as defined by District Collector.
- f. About 13 labours per ghat will be required
- g. The site services will be provided by allottee/Successful Bidder, Office, First Aid and Rest Shelter will be temporarily constructed 20 m away from the bank of river.
- h. Applied area for sand extraction is covered by dark basalt and which has been derived /transported from basalt of surrounding flat and well tilled area. The sand of the applied area is found to be underlain by dark basalt of river bed.

4. Anticipated Environment Impacts and Management Plan

• Air

A summary of Air Pollution control measures is given below:

Sr. No	Impact Sources	Impact	Control Measures
1.	Transport Road	On Air Quality On Land River bed stability River bed Degradation	 Compaction, gradation and drainage on both sides & green belt development. Proper Maintenance Regular water spraying Avoding overfilling of tractor and consequent spillage on the roads. Air Quality will be monitoring at impacted village
2.	Truck/Tractor movement	Air quality	 No overloading of trucks And carrying trucks will be effectively covered by tarpaulin to avoid escape of fines to the atmosphere. Enforcing speed limit Regular monitoring of the exhaust fumes No Engine of tractor/truck will be kept on during the filing If possible, entry be restricted to river bed.
3.	Ramp and Sand Reach	Mining operations	 Regular ramp inspection and ramp maintenance Provision of dusk masks Mining will be done during day time between fixed hours only.
4.	Bank Management	Bank Erosion/Flood Plain management	 Green belt along bank Plantation of wide leaf tail trees on bank and grass along slanting portion of bank.

• Occupational Health and Services

A summary of Occupational Health and Services is given below:

Sr.	Impact Sources	Impact	Control Measures
No			
a.	Occupational Health and Services	Safety of workers and Mining Operations	 Providing a working environment that is conducted to safety &health The management of occupational safety and health is prime responsibility of mine owner. Provision of necessary personal protective equipments. Ensuring employees at all levels receive appropriate training and are competent to carry out their duties and responsibilities Provision of First aid and drinking

Sr. No	Impact Sources	Impact	Control Measures
			water, temporary rest room.

Noise

Noise control measures will be provided in the proposed crushing and screening plant.

- a. In addition, personnel working near high noise generating sources will be provided with ear muffs.
- b. No equipments generating, Noise excluding tractor/trucks will be permitted
- c. No Tractor engine will be kept idle.
- d. Conduct periodic audiometric tests for employees working close to high noise generating areas such as compressors, loading and unloading sections etc.
- e. Provision of PPE will be made and their proper usage will be ensured for hearing protection of the workers as well as visitors.

• Traffic Management

- a. The mineral transporting vehicles will be registered with Forest Department/Revenue Department and only registered vehicles will be used for mineral transport
- b. The PUC certificate for exhaust emissions for all the transport vehicles will be made mandatory.
- c. All the vehicles will be properly maintained to control emissions and noise generation
- d. Drivers of all vehicles will strictly follow traffic rules
- e. Speed of mineral transport vehicles will be regulated.
- f. Overloading of the tractors will not be allowed.
- g. The mineral transporting tractors vehicles will be properly covered with tarpaulin to avoid fugitive emissions
- h. Batch transport system will be adopted in consultation with other sand ghat operations in the area to avoid excess traffic at time on road.
- i. Mineral Transportation will be done only during day time
- j. Strict action will be taken against any driver, who do not comply with traffic rules.

• Plantation Programme

- k. It is proposed to plant local species during monsoon period along the bank of river and village roads.
- l. List of species proposed for greenbelt development plantation are Neem, Peepal, Banyan tree

Successful Bidder/Sand ghat allottee will submit compliance to terms of conditions stipulated in the prior Environment Clearance to the District Mining officer and respective Tehsildars with the expense made on implementation of EMP.

District Mining officer/Respective Tehsildar will monitor the implementation of approved Environment Management Plan along with District Level Committee headed by District Collector as stipulated in Sand Mining rules 2019.