

EXECUTIVE SUMMARY
DRAFT ENVIRONMENTAL IMPACT ASSESSMENT
&
ENVIRONMENT MANAGEMENT PLAN
For Obtaining
Environmental Clearance under EIA Notification – 2006 Schedule Sl. No. 1 (a) (i):
Mining Project
FOR STONE QUARRY

“B1” CATEGORY – MINOR MINERAL
STONE QUARRY
At

Gut No 183, Village Paradgaon Tq. Umred
District Nagpur, Maharashtra
Over Area 7.74 Ha

Project Proponent
CHAITANYA WASUDEORAO PITALE
VILLAGE PARADGAON,
TQ.UMRED, DIST.NAGPUR

Environmental Consultant
Enviro Techno Consult Private Limited
68, Mahakali Nagar-2
Near Manewada Square
Nagpur 440024

Accredited for sector 1 Category ‘A’

QUALITY COUNCIL OF INDIA
NATIONAL ACCREDITATION BOARD FOR EDUCATION & TRAINING

Certificate No : NABET/EIA/25-28/IA0169

MAY 2026

EXECUTIVE SUMMARY

This EIA report is prepared by considering Cumulative load of all proposed & existing quarries of Paradgaon Tq. Umred District Nagpur consisting of proposed stone quarry of Mr. Chaitanya Wasudev Pitale as per moefcc notification S.O. 2269 (E) dated 01.07.2016) in Paradgaon Village, Umred Taluka, Nagpur District , Maharashtra State.

This EIA Report is prepared in compliance with ToR obtained –

SR. No	Name of Project Proponent	ToR Reference for Quarry	ToR Date	Area in Ha
1	Chaitanya Wasudeorao Pitale	SIA/MH/MIN/563525/2025	13.01.2026	7.74

And the Baseline Monitoring study has been carried out during the period of March 2026-May 2026

LIST OF QUARRIES WITHIN 500m PERIPHERAL AREA OF PROPOSED PARADGAON STONE QUARRY OF MR. PITALE

Name of Project Proponent	District	Village	Taluka	Gut No	Area in Ha
Mr. Chaitanya Wasudev Pitale	Nagpur	Paradgaon	Umred	183	7.74

A LOI Issued

Sr. No.	Gut No	Area in Ha.	Mineral	Details	Status of Lease	Distance from Habitat
1	183	7.74	Basalt (Stone)	Mr. Chaitanya Wasudev Pitale	LOI issued	Paradgaon - 2.03 Km SE
Total Area A-						7.74 Ha

List of Quarries

Sr. No.	Gut No	Area in Ha.	Village	Details	Status of Lease
1	154,155	4.47	Paradgaon	Mr. Amol Pillare	Existing Lease
2	163/1,163/2	4.65	Saiki	Mr. Rahul Mandhana	Existing Lease
3	153/5	2.02	Saiki	M/s Mahalaxmi Stone Crusher	Existing Lease
4	147	4.00	Saiki	Pawanputra Concrete Solution Pvt. Ltd.	Existing Lease
5	140/3,140/4,141,142	4.00	Saiki	Mr. P.L. Agrawal	Existing Lease
6	158/2,158/6,158/3	4.82	Parsodi Uti	Pawanputra Concrete Solution Pvt. Ltd.	Existing Lease
7	44	4.99	Mahasalkund	Rank Silicon	Existing Lease
8	24	1.30	Mahasalkund	Jassal Singh	TOR granted
9	37,40	6.58	Mahasalkund	Bestone Pricast & solun Dinesh Pagariya	TOR granted
10	23	1.76	Mahasalkund	Pratibha Kanhere	TOR granted
11	147/1,147/2	4.00	Paradgaon	Ashwin Mehta	TOR granted
12	29	8.27	Mahasalkund	Yogesh Thaori	TOR granted
13	35,36,41	12.77	Mahasalkund	Part Jaiswal & Karan Jaiswal	TOR granted

14	153	4.60	Paradgaon	Mr. Ashwin Mehta	Abandoned/Suspend ed/Closed
15	147/2	1.60	Paradgaon	Mr. Arvind Mehta	Abandoned/ Suspended/Closed
16	146	3.70	Saiki	Centero Mintech Pvt Ltd	Abandoned/ Suspended/Closed
17	125/2	1.90	Saiki	M/s AEC	Abandoned/ Suspended/Closed
18	159	9.40	Paradgaon	D. P. Jain	Abandoned/ Suspended/Closed
19	20/1,20/2	2.24	Masalkund	Vinod Chokse	Abandoned/ Suspended/Closed
20	45/3,45/1	3.24	Masalkund	Rahul Patel	Abandoned/ Suspended/Closed
21	173	2.65	Saiki	Suresh Thakre	Abandoned/ Suspended/Closed
22	22/1,22/2	1.20	Masalkund	Jassal Singh	Abandoned/ Suspended/Closed
23	21	1.20	Masalkund	Jassal Singh	Abandoned/ Suspended/Closed
24	166P	1.20	Saiki	Amol Pillare	Abandoned/Suspend ed/ Closed

Reference DSR Nagpur October 2025

Total Area 104.3 Ha including proposed quarry of Mr Pitale of 7.74 Ha

Details of Stone Quarry

	Parameters	Details	Observation
1	TAILS OF STONE QUARRY CLUSTER		
a.	Name of Stone quarry Cluster	Paradgaon Stone Quarry of Mr. Chaitanya Pitale	
b.	Name of the Mineral bearing area	Paradgaon Stone Quarry bearing Mineral “Basalt”	
c.	Particulars of adjacent blocks: North, South, East, West	North Side village Haladgaon South side Village Sukli	
d.	Topo sheet No with latitude and longitude	(Bounding Co-ordinates)	
	Topo sheet No		
	Latitudes (N):		
	Longitude (E):		
e.	Location of the CLuster District / State	Paradgaon Taluka Umred, District – Nagpur, State - Maharashtra	
f.	Type of the Project (Operating / under Implementation)	Total 24 quarries and one proposed quarry for area 104.3 Ha	
2	DETAILS OF THE PRESENT PROPOSAL		
a.	BASE DATE OF MINING PLAN	March 2026	
b.	Scope of the mining plan	As per S.O. 2296 dated 01.07.2016 and ToR Sprcific condition no 11, Regional Mining Plan including list of existing operational quarries with their areas and production potential along with status of EC, list of existing quarries operational under temporary permit, list of old/abandoned/closed mines along with status of mine closure as per approved mining plan or guidelines, list of proposed quarries included in the District Survey Report along with their area and mining potential etc. required to prepare.	
3	ALLOTTEE COMPANY DETAILS		
a.	Name the Authority preparing Regional Mining Plan	Not Applicable Being Single Quarry proposed for Terms of Reference and EIA studies	
b.	Status of the Applicant	Individual	
c.	Details of Terms of Reference	ToR Letter SIA/MH/MIN/563525/2025 dated 13.01.2026	
d.	Name and address of the applicant	Mr. Chaitanya Wasudev Pitale Plot No 07,Flat No 201,Bandawar Marg,Nr Paranjape School,Khare Town Dharampeth Nagpur 440010	
e.	Relationship between the applicant and Association	Individual Applicant	
f.	Name and address of RQP with registration No	Shri A.P. Saraf ,RQP, Nagpur Registration no. RQP/NGP/467/2013A	
4	Details of the Previous Approval of Mining plan		
a.	Date of Approval	Vide letter MLV/Misc/432/Part/2026/133 dated 08.01.2026	

	Parameters	Details	Observation
b.	Conditions if any	Condition As per Tor granted vide letter ToR Letter SIA/MH/MIN/563525/2025 dated 13.01.2026	
c.	Scheduled year of start of production	November 2026	
d.	Proposed year of achieving the targeted production	2026	
e.	Date of actual commencement of mining operations, if operations already started	November 2026 .	
f.	Likely date of mining operations, if operations not yet started & reasons for non-commencement of operations	Not applicable	
g.	Planned production and actual levels achieved in last 3 years	Nil Being new Proposed Quarry	
h.	Reasons for difference between the planned and actual production levels	Not Applicable being new Proposed Quarry	
5	Details of Mining Plans approved and proposed to approve		
		Previous Mining Plan	Current Mining Plan
a.	Lease area “Ha”	Not Applicable	7.74
b.	Project Area “Ha”	Not Applicable	7.74
c.	Life of the Project “Yrs”	Not Applicable	15 Yrs
d.	Minimum and Maximum Depth of working “m”	Not Applicable	Maximum Proposed Depth 18m
e.	Geological Contageous area for Basalt in “Ha”	Not Applicable	7.74
f.	Production Target “Brass”	Not Applicable	
g.	Seams not considered for Mining with Reasons	Not Applicable	
h.	Geological Reserve “cum”	Not Applicable	3546910
i.	Blocked /Excavated Reserve “Million cum”	Not Applicable	00
j.	Minalbe Reserve “Million cum”	Not Applicable	2137026
k.	Extractable Reserves “Million cum”	Not Applicable	2137026
l.	% of Extraction/recovery	Not Applicable	80%
m.	Reserve Depleted (till the base date Mar.	Not applicable	

	Parameters	Details			Observation																								
	20216) “Million cum”																												
o.	Balance Extractable reserve “Million cum”		Not applicable																										
p.	Grade		Building Grade		Building Grade																								
q.	OB in MM ³		Not Applicable being Minor Mineral		Not Applicable being Minor Mineral																								
r.	Stripping Ratio in %		90%																										
s.	Mining Technology		Opencast with drilling followed & Blasting																										
t.	Any Beneficiation envisaged		Not Required, However sizing by crushing is proposed																										
u.	Handling of Rejects(OB)		Not applicable																										
v.	Land use pattern “ Ha”		<table><tr><td>Area</td><td>Old Pits sq. m.</td><td>Conceptual Period Sq. m.</td></tr><tr><td>Area under pits</td><td>00</td><td>61484</td></tr><tr><td>Area under dumps</td><td>00</td><td>00</td></tr><tr><td>Undisturbed Area</td><td>74700</td><td>00</td></tr><tr><td>Area under Roads</td><td>00</td><td>400</td></tr><tr><td>Area under Plantation</td><td>00</td><td>14441</td></tr><tr><td>Area under Storage</td><td>00</td><td>00</td></tr><tr><td>Area under Office, Crusher etc.</td><td>00</td><td>1075</td></tr></table>			Area	Old Pits sq. m.	Conceptual Period Sq. m.	Area under pits	00	61484	Area under dumps	00	00	Undisturbed Area	74700	00	Area under Roads	00	400	Area under Plantation	00	14441	Area under Storage	00	00	Area under Office, Crusher etc.	00	1075
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1	Excavation Area		7.74																										
2	Top soil dump		Nil Being Minor Mineral as Stone is outcropped																										
4	External Dump		Not Applicable																										
5	Safety Zone		7.5 meter peripheral area per quarry																										
6	Other uses		Not Applicable																										
7	Infrastructure		Offices and amenities proposed per quarry, No Magazine is proposed																										
8	Green Belt		Total Green Belt over 1.4441 Ha around safety area of quarry, 2.5 Ha area covering roads and village boundaries are proposed																										
9	Roads		Haul Roads are already developed in the area. No new road is proposed.																										
10	Undisturbed Area		1.4441 Ha Safety area																										
6	END USE OF STONE METAL																												
a.	End Use of Stone metal	Saleable to builders, road makers and other infrastructural requirement																											
c.	Percentage of end use requirement to be met from this quarry			100%																									
e.	Proposed Use of Rejects			100% Saleable																									
d.	Mode of Transport			By Road																									
7	EXPLORATION AND GEOLOGY																												
a.	Geological Area “Ha”			7.74 Ha																									
b.	Status of Exploration of the Cluster area for Basalt			Not applicable being Basalt. Calculated depth based on existing pits																									
c.	Area covered by ‘detailed’ exploration within the block (sq.km)			7.74 Ha																									
d.	Whether entire lease area has been covered by ‘ detailed ‘ exploration			Not applicable																									

	Parameters	Details	Observation
e.	No of boreholes drilled within the Basalt cluster	Not applicable	
f.	Whether any further exploration /study is required or suggested and time frame in which it is to be completed	Not applicable being Basalt s minor mineral	
g.	Overall borehole density within the block (no./ sq km) approx	Not applicable	
h.	No of Seams available as per GR	Not applicable)	
i.	Seams not considered for Mining with Reasons	Not applicable	
8	MINING		
a.	Existing method of mining if the mine is under operation	Total 24 quarries and one proposed quarry for area 104.3 Ha	
b.	Proposed method of mining with justification on suitability of method of mining	Proposed methods of mining are also same i.e. Opencast method by drilling followed by Blasting	
c.	Basalt production capacity proposed "Mtpa	83555Brass/Year	
e.	Calendar year from which the production will start	Total 24 quarries and one proposed quarry for area 104.3 Ha	
f.	Year of Achieving rated production	Immediate After November 2026	
i.	Peak / Rated Capacity		
	- By opencast:	83555 Brass/Year	-
	- Overall	83555 Brass/Year	
j.	Life of the mine :		
	- By opencast:	15Years	
	- Overall	15Years	
k.	Whether the proposed external OB dump site is Basalt bearing	No	
m.	Whether the mining operations to be carried out through quarry owners or outsourcing or thru association	Solely by individual quarry owner only	
n.	Operations that are proposed to be outsourced	Blasting and Drilling	
o.	Proposed configuration of HEMM for OC (Coal & OB) & Major Equipment for UG.	For OB Removal : Excavators For Basalt : Excavators, Drills For common use: Excavators ,tippers, trollies	
q.	Results of any investigation carried out for scientific mining, conservation of minerals and protection of environment; future proposals.	Environment Monitoring will be done as per approved EIA / EMP	
9	IMPORTANT SAFETY ASPECTS – Major Risks and uncertainties to the project viz. Proximity to river, adjacent working, geo-mining disturbances, slope stability and remedial measures suggested. It should also include proposed overall slope of the quarry and OB dump, dump height, strata control, fire and spontaneous heating, gas monitoring , disaster management, danger from in rush of water etc.		There are no major river, Nala, village or forest, ESA/ESZ nearby within safety limit of 200m as per MMEDR 2013. No Dumps are proposed. Mineral Storage will be temporary in nature and sold on daily basis.
10	STATUS OF LEASE		
a.	Status of Lease	Not Applicable for Regional Mining Plan.	
b.	Existing Lease Area "Ha"	7.74 Ha	
c.	Period for which Mining Lease has been granted / is to be renewed / is to be applied	As per provisions of MMEDR 2013. No provision of mining lease	

	Parameters	Details	Observation
		for.	for cluster. However individual leases will be executed as per provisions of MMEDR 2013.
d.	Date of expiry of earlier Mining Lease, if any	Not applicable being proposed lease	
f.	Lease Area (applied / required) as per the Mining Plan under consideration (Ha)	Total 24 quarries and one proposed quarry for area 104.3 Ha	
g.	Whether the applied lease area falls within the allotted Cluster	Not Applicable being individual Terms of Reference being area more than 5 Ha	
j.	Details of outside area:		
	☐ Whether forms part of any other Mineral block	No.	
	☐ Whether it contains any other mineral content	No.	

Compliances to EIA notification 2006 amendment vide S.O. 2296 dated 1st July 2016 for preparation of Regional Mining Plan for cluster of minor mineral quarries exceeding area 25 ha or area greater than 5 Ha in cluster.

Sr. No.	Observation/Legal/Statutory Requirement	Compliance
1.	Statutory agency demanded Regional Mining Plan	SEIAA/SEAC, Maharashtra
2.	Approval Authority	Director, Directorate of Geology and Mining, Govt. of Maharashtra, Nagpur.
3.	Name of Environmental Consultant	M/s Enviro Techno Consult Private Limited, Nagpur
4.	Name of RQP/TQP	Mr. A. P. Saraf
5.	Regd. No of RQP	RQP/NGP/467/2013A valid till 2023
6.	Name of the Mining Plan	Proposed Stone Quarry of Mr. Chaitanya Pitale over 7.74 Ha at village Paradgaon Tq. Umred District Nagpur
7.	Name of Project Proponent responsible for implementation of Regional Mining Plan	Mr. Chaitanya Pitale
8.	Jurisdiction of Stone Quarry Cluster/Stone Quarry	District Collector, Nagpur Thru District Mining Officer, Nagpur

EIA monitoring:

- Monitoring was conducted as per standard terms of reference for the mining industry and those mentioned in the TOR issued by SEIAA within area within 10 km radius from the lease was examined. Baseline ambient air quality, information on hydrogeology and water quality, land use etc. was collected as per MOEF&CC criteria.
- Probable impacting activities during proposed mining activity have been identified. Particulate matter emissions were predicted by emission factor approach for drilling, blasting, transportation activities etc.
- Impacts on water quality quantity impacts were considered. Impact on land use, socio economic status during project activities have been considered.

Base line environmental quality:

- Air : There are no industrial gaseous -emission sources. Predominant wind directions in the order are NE (17%),ENE, S, & SSW (12 %). Average wind speed is 0.9 m/sec. Calm conditions are 10.4 per cent.

- Atmospheric stability class at Mohada is “moderately unstable to slightly unstable” during the day. Area has rural setting.
- Concentrations of criteria pollutants were found to be well below National air quality criteria viz. PM_{10} , $PM_{2.5}$, SO_2 and NO_x which are respectively 100,60,80 and 80 $\mu g/m^3$.
- Predominant emissions during open cast mining project would be generate particulate matter likely during drilling, blasting, loading/unloading and transportation activities .
- Noise: L_d , L_n & L_{dn} values were typical of rural background

Sampling points								
Station	N1	N2	N3	N4	N5	N6	N7	N8
Village Name	Paradgaon	Parsodi	Sukli	Udasa	Pendhri	Davha	Uti	Bhiwapur
	village	village	village	village	village	village	village	village
Range	36-54	33-57	32-55	30-52	31-48	30-58	33-52	28-53
L_d	50.7	52	49	47.3	45	51	46.7	46.3
L_n	41.1	40.3	36.6	33.9	34.1	34.2	38.8	34.8
L_{dn}	50.8	51.5	48.3	46.3	44.7	49.5	47.6	45.8

Sources of noise would be during drilling and blasting. Three holes will be drilled in a day and there would be three blasts per week.

- **Water:** There are no surface sources viz. rivers/ lake in the lease except abandoned pits occupying 965600 m^2 . Ground water from Basalt deposit areas is known to contain higher fluoride. Ground water in such areas is alkaline. There is isomorphic replacement of fluoride ions in geology by hydroxyl ions. Fluoride was more in the tube well/hand pump water samples. Fluoride has to be removed from water if this water is to be used for drinking. Alum can be used for removing fluoride.

Surface runoffs during monsoon from lease will enter abandoned pits. Some water will evaporate and some can slowly percolate down.

Abandoned mine pit water quality meets the criteria A-II for surface water source viz. public water supply with approved treatment equivalent to coagulation, sedimentation & disinfection (Govt. of Maharashtra resolution no 2000/326/P.K .22/3 dated 15-07-2000). It would need disinfection if it is to be used for consumption. Suspended solids, if any will settle down during long detention in the pits.

Ground water potential : Paradgaon Stone Quarry:

Ground water recharge rate by pit- water was calculated using relation $\text{area} \times \text{annual rainfall} \times \text{coefficient}$ 0.3 for Basalt It is likely to be 22135 m^3/year considering total area of 7.74 ha (Pit Area Of 6.14Ha) and rainfall of 1200mm. Water table is at 25 m below ground level near the lease. Ground water table will not be intercepted.

Dewatering of pits during mining will not be required. Sanitary wastewater will be generated. Toilet facility will be provided with septic tank and soak pit.

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Soil:

Soil cover over the lease is scanty. Soils of area beyond lease are part of Umred series of soils. Ground water table is more than 10 m. Soils are moderately well drained and have slow permeability. Parent material is basalt /weathered basalt. Common use is for cotton and vegetation is neem, palas, mahua etc. Yield of cotton as per present farming practice by most land owners is one to two quintals per ha.

Biological :

Nearest sanctuary Karhandala is at 20km to NE .Paradgaon Stone Quarry Cluster is not a part of any forest. There is no tree cover over the lease. There is no wild life within 10 km. Seasonal shrubs occur over the lease during monsoon and dry out by month. Only thin soil cover is seen. Further, extraction of Basalt will be from a pit. Only domesticated animals are seen.

Waste :

During mining no waste will be generated from mining operations. Beneficiation is not planned.

Rejects are saleable being minor mineral. Soil will not be generated.

Blasting details:

Permission for blasting from DGMS has to be sought from DGMS before active mining has commenced. Mining cannot start and blasting cannot be carried without permission from DGMS.

There would be three blasts per week. Blasting will be in the pits below ground level.

Peak particle velocity (PPV) will be calculated by U.S. Bureau of Mines formula for PPV

$V = k\{(D/Q)^{1/3}\}^{-\beta}$, where Q is charge/delay(kg) , D is distance at which vibration is measured, V is PPV in m/sec, k is coefficient depending on rock mass, β is slope of the best line of fit of V vs. $(D/Q)^{1/3}$. It is estimated that PPV will be 33.11 m/sec at 20 m for charge of 13.75 kg proposed in the mining plan. Therefore, any structure like blaster's shed within lease will be unaffected. Also village Paradgaon at 2.1 km will not be affected.

Impacts

Land: There is no soil cover or agriculture. There is no mining or agriculture over the land. Hence there would not be any adverse impact on topography/drainage or on land use or agriculture. Appearance will continue to be as it is. Geological records on these basalt deposits state that considerable stone/basalt quantity would be present in the pit as per approved mining plan and district resource plan. Proved mineable reserves would not have been mined till the conceptual period of mine. Hence backfilling or reclamation of the mined out area is not proposed. Thus, mined out pit will be a “ rainwater” storage structure till mining starts again. It is likely that recharge ground water aquifer takes place. Also reservoir water can be used for miscellaneous purposes like plantation, fish culture etc.

Already some stone quarries are working and some are permanently closed down.

They have not caused any adverse impact on prevailing mine lease environment. A garland drain will be

provided to collect runoff during monsoon.

Land use in lease at the end of mining plan period

Area	Old Pits sq. m.	Conceptual Period Sq. m.
Area under pits	00	61484
Area under dumps	00	00
Undisturbed Area	74700	00
Area under Roads	00	400
Area under Plantation	00	14441
Area under Storage	00	00
Area under Office, Crusher etc.	00	1075

Air :

Ground level concentrations as per ISCST3 model for dispersion of air pollutants for lease area source show that there would not be any adverse impact on ambient air quality .

Water :

There would not be any impact on aquatic environment including hydrology, drainage or quality because a) there is no drain in the lease, b) ground water table will not be intercepted, c) dewatering of pits will not be required and d) Basalt

pit water is suitable for irrigation. Regular monitoring for fluoride content is required.

Noise:

Sources during mine operation would be drilling and blasting. Drillers would be exposed to about 75-80 dB(A). Blasting noise will be short lived. Levels are about 110 -120 dB(A) near the blast. In this case blasting would be below ground level during day time. Pit-walls would absorb the noise waves. Hence, there would not be any adverse impact. Blasters would be given personal protection equipment. There are no structures over the lease

Biological:

There is no sensitive fauna and flora or endangered species in 10 km radius of the lease. Lease is not a part of any forest area. This area is not known for its biodiversity. Project proponent will carry out plantation in scientific way. It will choose local species in consultation with local forest department. Secondly State Fisheries department will be requested to carry out fish culture in abandoned mine pits.

Socioeconomic & health: There will not be any displacement on account of this project because land is in possession of existing and proposed quarry owners. It is proposed to a) prefer employment to deserving local persons in mining related trades like loading/unloading of ore, its gradation, drilling etc. , b) train residents of Mohada for harvesting rain water, and sanitation practices etc., c) training in fish culture also is one activity which will be useful to local population.

Summary of measures to control of emissions :

DTH Drill Hole Dia.	32 mm.
Depth of Hole	1.5 m.
Spacing of Hole	1 m.
Burden	1.2 m.
Drill Pattern	Linear
Size of Cartridge	200 mm.
Weight of Cartridge	120 gm.
Quantity of Explosive Hole	240 gm.
Powder Factor	6.00
Type of Explosive	Slurry class 2, Nitrate Mixture, Class-6, div-2
Fuse	Electric detonators –class -6 div.3
No. of Holes to be Blasted per Day	200 -250 holes

Activity	Mitigation measures
Hole drilling	Wet drilling; Ø-32mm,Depth-1.5m in Basalt, 2.5 in burden at 1m spacing
Blasting -Small Ø holes in weathered LS	as per D.G.M.S norms Powder factor-6
O.B. generation no top soil	Nil being minor mineral and very scanty soil will be utilized for peripheral plantation.
Transportation	Will be in covered -tipper trucks (75 nos.) over macadamized roads.
Plantation	2160in cluster for next 5 years and in 7.5m safety zone @ 1500trees /ha of safety area
Dewatering of pits	Ground water table will not be intercepted thus dewatering of pits will not be required. Rain water in pits will be used for dust control.

Monitoring schedule :

Env. segment	Parameter	Frequency
Water quality	IS 10500	Monthly
G.W. table	Fluctuation in monsoon & post monsoon period	May & October
AAQ	Particulate matter PM ₁₀ & PM _{2.5}	Monthly
Noise	Equi. noise levels	During drilling & blasting
Vibration	before starting mining	During blasting each month
Health	Pulmonary function, eye sight, audiometry,B.P., etc.	Annual record
Plantation	Survival	Annual survival rate
Data analyses	Efficiency of mitigation measures	Monthly

Plantation :

Saplings will be planted in 7.5-10 m wide safety zone and along the transport roads. One cubic metre pits will be made along the border and will be filled with local soils from lease. Refuse or garbage will be added as per availability. Growth in the first year will be observed. Species will be chosen from the following and depending on availability.

SI.No	Name of the plant (Botanical)	Habit
1	Neem	tree
2	Peepal	tree
3	Vad	tree

Safety measures:

Blasting : Shots will be muffled to avoid flying fragments beyond 10 m. Adequate warning by siren to reach 500 m. Protective shelters for workers. Use of PPE will be compulsory.

Corporate Environmental Responsibility:

Budgetary provision for 1.5 Lakhs is made for works to be done against corporate environmental responsibility.

A few are mentioned below:

Sr. No.	Activities
1	Solar Panel Based power to school at Paradgaon
2	Rain Water harvesting for school building and other GP infrastructures

N.B. Costs are indicative

Individual CER is as per policy defined in DSR of Nagpur district.

Economics of project

Stone at Paradgaon is of good quality and approved by various agencies. It is the nearest and single source to cater stone requirement for Nagpur district along with three tahsils of Nagpur district. Land is barren. Therefore mining will be in the interest of State revenue and of the people around. Direct and indirect employment to locals is assured.

Lease is an unused land with no tree cover. There are abandoned pits. Water in pits is used. Therefore there would not any damage to environmental quality.

Initiation of mining by Project Proponent will improve revenue to the state without deterioration in environmental quality. On the contrary population in nearby villages will become aware of importance of potable water quality and sanitation.

Openings for indirect employment to locals in plantation, fish culture are possible. Additional water supply source in form of pit-water, recharge of aquifer is likely.