

DRAFT ENVIRONMENT IMPACT ASSESSMENT REPORT & ENVIRONMENT MANAGEMENT PLAN of

EXECUTIVE SUMMARY ENGLISH

M/s Shyam Ventures Limestone Quarry (Low grade)

at

**Village - Gondpendri, Tehsil - Patan, District- Durg, State: Chhattisgarh, Area
4.98 ha at khasra no. 383, 384, 393 Part, 394/1, 394/2 395/1, 395/2, 396, 397, 398,
399 Part, 401, 402/1, 402/2, 403/3 Part, 437, 438 Part, Capacity: 55,500 Tons per
annum**

Proposal No. SIA/CG/MIN/67035/2021

Applicant

**M/s Shyam Ventures
Partner Shri Sanjay Agrawal**

Indian Mine Planner & Consultant

NABET/EIA/1821/IA0037

ACCREDITED BY NABET UNDER "A" CATEGORY FOR OPEN CAST MINES

Corp. Office: GE-61, Rajdanga Main, Road, Behind Gateway Hotel, EM Bye Pass, Kolkata

EXECUTIVE SUMMARY

INTRODUCTION

Environmental Impact Assessment (EIA) is a process, used to identify the environmental, social and economic impacts of a project prior to decision-making. It is a decision making tool, which guides the decision makers in taking appropriate decisions for proposed projects. EIA systematically examines both beneficial and adverse consequences of the proposed project and ensure that these impacts are taken into account during the project designing.

The mining lease is located in village of Village: Gondpendri; Tehsil- Patan Dist: Durg, C.G. Area- 4.98 Ha Geo-graphically the QL area extends from Longitude 81°26'51.99"E to 81°27'04.66"E and Latitude 21°05'24.45" N to 21°05'31.88" N

The study area of the proposed project comprises of 10 km radius around the mining lease boundary, the map showing the core zone (ML area) and buffer zone (10 km radius from the lease boundary).

The life of the mine is anticipated at 79 years based on the level of exploration and reserve established as per UNFC classification and expecting the market demand will remain at 55500.00 TPA Tonnes per Year.

Location

The mining lease is located in village of : Gondpendri; Tehsil- Patan Dist: Durg, C.G. Area- 4.98 Ha Geo-graphically the QL area extends from Longitude 81°26'51.99"E to 81°27'04.66"E and Latitude 21°05'24.45" N to 21°05'31.88" N.

Connectivity

Patan about 11 km from Patan. The QL area can be approached from SH- 22 about which is at a distance of 220 m. The Nearest Railway Station is Maroda Railway Station 11 km. The Nearest Airport is Swami Vivekanand Airport at a distance of 32 km.

Mailing/ Correspondence Address of Project Proponent:

The lessee is M/s Shyam Venters
Partner Shri Sanjay Agrawal
Village Khapri, DSA Fuels
Dhamdha Road Durg, Chhattisgarh

Size of the Project

The total Mine Lease areas considered is 4.98 ha. The proposed production is 55500 Tonnes per Year.

Anticipated Life of Project and Cost of the Project

The life of the mine is anticipated at 79 years based on the level of exploration and reserve established as per UNFC classification and expecting the market demand will remain at 55500 Tonnes per Year.

MINING

Opencast semi mechanized method of mining will be adopted in the lease area. The excavation will be carried out usually by manual labour with the use of jack hammer, excavator, compressor etc. and loaded into tractor/truck/tipper. The Limestone will be suitably blended to be supplied in market. Rest is inner burden.

Year wise Production details

PRODUCTION PLAN FOR FIRST FIVE YEARS

Year wise	mRL	Area (m ²)	Depth (m)	Volume (m ³)	Density	Production (MT)	Recovery 95%
1st year	308.5 - 307	13320	1.5	19980	2.5	49950	44955
	Total					49950	44955
2nd year	308.5 - 307	13320	1.5	19980	2.5	49950	44955
	Total					49950	44955
3 rd year	308.5 - 307	1166	1.5	1749	2.5	4372.50	3935.25
	307 – 305.5	12154	1.5	18231	2.5	45577.50	41019.75
	Total					49950	44955
4 th year	307 – 305.5	13320	1.5	19980	2.5	49950	44955
	Total					49950	44955
5 th year	307 – 305.5	850	1.5	1275	2.5	3187.50	2868.75
	305.5 - 304	12470	1.5	18705	2.5	46762.50	42086.25
	Total					49950	44955
Grand Total						249750	224775

Summary of Land use at different stage will be as follows (in ha):

Articles	Present Land use	Fore st Land	Agri cultu re Land	Stony waste Land	Land use at the end of 5 year of lease period in Hect.	Land use at the end of 10 year of lease period in Hect.
A. Lease area	4.55	Nil	Nil	Nil	4.55	4.55
B. Quarrying & allied						
1. Area under pit	Nil	Nil	Nil	Nil	2.931	2.931
2. Area of Safety Zone	Nil	Nil	Nil	Nil	0.874	0.874
3. Area for road	Nil	Nil	Nil	Nil	Nil	Nil
4. Area for Infrastructure	Nil	Nil	Nil	Nil	Nil	Nil
5. Plantation	Nil	Nil	Nil	Nil	***	***
6. Storage of Mineral	Nil	Nil	Nil	Nil	Nil	Nil
7. Storage of fines	Nil	Nil	Nil	Nil	Nil	Nil
8. Crushing unit with road	Nil	Nil	Nil	Nil	0.745	0.745
9. Unused area	Nil	Nil	Nil	Nil	Nil	Nil
Total	4.55 Hect	Nil	Nil	Nil	4.55 Hect	4.55 Hect

Systematic working will be done by formation of benches as per M.M.R. 1961. All applicable rules of MMR 1961, Mines Act-1952, MCR-2016 and MCDR-1988 will be followed for safe, scientific & systematic working to follow the principles of safety & conservation of human health & mineral.

5 Disposal of Waste

Nature of waste, its rate of yearly generation and proposals for disposal of waste: The mine waste is in the form of following:-

(1) Top soil: -

Year wise Top Soil Development & Management for Ten years:

Total 5819 m² area will be excavated in the plan period. Top Soil/OB removed from the working area and dump along the 7.5 m safety zone in 1st year in the plan period.

(2) **OB and Mine waste:** - The waste generated as topsoil will be used for plantation purpose at safety zone.

Selection of Dumping Site:

Total 37053 m³ soil will be generated from the area, which 12460 m³ Soil will be Dump in 8307 m² Safety Zone Area and 24593 m³ soil will be done 9674 m² Blocked Area

Method and manner of disposal of waste: Top soil excavated from the height of Max 1 m and will be dumped at safety barriers around the lease area and Blocked Area which will be used for plantation purpose at safety zone.

General Features

I) Surface Drainage Pattern

In the Study area of Mahanadi (29 km SW) & Selud (22 km SW)

ii). Vehicular Traffic Density

The lease area is about 20 km from Durg. The QL area can be approached from State Highway-22 which is at a distance of 250 m. The Nearest Railway Station is Maroda about at 11 km. The Nearest Airport is Swami Vivekanand Airport at a distance of 32 km.

The mode of transport of mineral and waste will be dumpers/trucks/tipper within the QL area. The mineral transportation to the destination industry outside the mining lease area will be by road.

Existing Traffic Scenario & LOS

Road	V (Volume in PCU/hr)	C (Capacity in PCU/hr)	Existing V/C Ratio	LOS
State Highway 22	140	1100	0.12	A

Note: V= Volume in PCU's/hr & C= Capacity in PCU's/ hr

The existing Level of Service near Village is "A" i.e. excellent and at NH is "A" i.e. excellent..

- Average Production of mine: 55500 tonnes per annum
- No. of working days : 250 days
- Production / day : 222 tonnes per day
- Carrying capacity of truck : 10 tonnes
- No. of truck trips/day : 22.2 (≈23)
- Working Hours per day : 8 hours
- No. of truck trips/hr : 2.875 (i.e. 3 truck every 1 hr)

<i>Traffic Scenario & LOS</i>					
Road	Increased PCU'S- SH-09 Rd	V	C	Modified V/C Ratio	LOS
State Highway 22	104.6 +10	114.6	1100	0.1	A

The LOS value from the proposed mine may be “Excellent”. So the additional load on the carrying capacity of the concern roads is not likely to have any significant adverse affect.

iii) Water demand

The water required is mainly for dust suppression, green belt development, drinking and other domestic purpose during mining operations. The total requirement will be 6 KLD. Water required during operation phase will be procured from bore well in the lease area and sump.

Manpower Requirement

About 26 persons will be getting direct and indirect employment in this mine. The man power will be mostly skilled.

DESCRIPTION OF BASELINE-ENVIRONMENT

This section contains the description of baseline studies of the 10 km radius of the area. The data collected has been used to understand the existing environment scenario around the proposed mining project against which the potential impacts of the project can be assessed.

Environmental data has been collected in relation to propose mining for:-

- (a) Land
- (b) Water
- (c) Air
- (d) Noise
- (e) Biological
- (f) Socio-economic

(a) Land Use: Object of this study is to provide a baseline status of the study area covering 10 km radius around the proposed Mine site so that temporal changes due to the mining activities on the surroundings can be assessed. The land-use is divided into agriculture land, settlement, river / Nala and forest area as shown in the map. The area is fertile and dominated by the proportion of agriculture land.

Classification scheme adopted for the preparation of land use/land cover maps on 1:50,000 scales. Land use / Land cover classification is given in the table below.

Land Use Pattern of the Study Area (within 10 km Buffer)

Land use Type	Area (Ha)
Open Land	718.95
Stony Quarry	247.33
Settlement	423.68
Water Bodies	352.49
Agriculture	30165.42
TOTAL	31907.87

Analysis Results of Baseline Environment

The analysis results show that soil is basic in nature as pH value ranges from 7.08 to 7.82 showing the saline property of soil. High electrical conductivity (386 to 420.12 $\mu\text{S}/\text{cm}$) is observed in the analysis report showing soil electrical behavior and dissolved solids in soil. The presence of Nitrogen content varies from 0.063 to 0.091 %. The concentration of Nitrogen, Phosphorus & Potassium are found low value in the soil samples. pH and EC values vary greatly and are affected by several environmental factors including, climate, local biota (plants and animals), bedrock and surficial geology, as well as human impacts are shown in the analysis report.

Low values of EC indicate relatively dilute waters, such as distilled water or glacial melt water and low deposition of TDS.

(b) WATER ENVIRONMENT

The results of Ground water samples are collected at six locations in the post-monsoon season as discussed above for organoleptic & physical parameters, general parameters, toxic and biological parameters. The analysis results at the six ground water locations and two surface water locations are given below:

The analysis results indicate that pH of the groundwater is in range of 7.32 – 7.54. The TDS were found to be in the range of 426-582 mg/l. Total Hardness is in range of 260.42 – 412.4 mg/l. The analysis results indicate that pH of the surface water to be in range of 7.12– 7.54. The TDS is found to be in the range of 582-624 mg/l. Total Hardness is in range of 612-624 mg/l. Other parameters like chloride and sulphate are observed within the prescribed limits. The necessary treatment required to minimize the impact is mentioned in Environment Management Plan and cost is born by the Project Proponent.

(c) AMBIENT AIR QUALITY

The Ambient Air Quality Monitoring reveals that of eight monitoring stations the minimum concentrations of PM_{2.5} are 26.28 µg/m³ at AQ4 and maximum 43.58 µg /m³ at AQ1 (Core Zone). The results of PM₁₀ reveals that the minimum concentration of 47.2 µg /m³ at AQ3 while maximum concentration of 66.50 µg /m³ is found at AQ4. These values for PM₁₀ and PM_{2.5} are within prescribed CPCB limit of 100 µg /m³ and 60 µg /m³ respectively for residential and rural areas at all stations.

The gaseous pollutants SO₂ and NO₂ are within the prescribed CPCB limit of 80 µg/m³ for residential and rural areas at all stations. The minimum & maximum concentrations of SO₂ were found to be 9.08 µg/m³ at AQ7 & 15.83 µg/m³ at AQ1 respectively. The minimum & maximum concentrations of NO₂ are found to be 11.33 µg/m³ at AQ2 & 20.24 µg/m³ at AQ6 respectively.

(d) NOISE ENVIRONMENT

The values of noise observed in some of the areas are primarily owing to vehicular traffic and other anthropogenic activities. Noise monitoring results reveal that the maximum & minimum noise levels at day time were recorded in the range of 58.0 dB(A) at NQ6 and 48.0 dB(A) at NQ3 and maximum & minimum noise levels at night time were recorded in the range of 53.3 dB(A) at NQ6 and 33.24 dB(A) at Village NQ1 in downwind direction respectively.

(e) BIOLOGICAL ENVIRONMENT

The lease area as well as buffer zone area reveals no endangered and endemic species of flora and fauna in the area.

(f) Socio- economic

Population Composition

According to 2011 Population Census the study area has a total population of 70061. Of this 52.0 percent are male and the remaining 48.0 percent are female. Further 15.2 percent of the total population belongs to 0-6 age group. About 53.7 percent of them are male and the remaining 46.3 percent are female.

Sex Ratio

The overall sex ratio in the study area has been worked out to 923 females per 1000 males, which is less than the national average of 940 females per 1000 males. The highest sex ratio recorded in the study area is 2000 females per thousand of males. Sex ratio of Children belonging to 0-6 age group has been worked out to 863 females per 1000 males.

Density of Population

The overall density of population in the study area has been worked out to 216 persons per sq. Kilometre. This is less than the density of population for the state, which stands at 236 persons per sq. Kilometre, according to census 2011.

Households

There are 15857 households in the study area and the average household size is four.

Social Structure

In the study area the total number of persons belonging to Scheduled Caste community is 12789, which is 18.3 percent of the total population. The gender wise distribution of schedule caste population indicates male 51.7 percent and female 48.3 percent, registering a sex ratio of 934 females per one thousand males.

Further analysis of data reveals that in the study area, the total number of persons belonging to Scheduled Tribe community is 11932, which is 17.0 percent of the total population. This is nearly same as the total number of persons belonging to Scheduled caste community residing in the study area.

About 64.7 percent of the total population belongs to General category, which includes people belonging to 'Other Backward Castes'. In absolute number the population belongs to this category are 45340 with 52 percent male and 48 percent female. The sex ratio of General category population has been worked out to 922 females per 1000 males.

The socio-economic development of poor and downtrodden scheduled caste and scheduled tribe people is a continuous process and the governments, both at the centre and the states are constantly making efforts to improve the destiny of these people. Distribution of surplus land to the members of the above categories of people is an important step taken by the government for their economic empowerment. The State Governments have drawn up its own list of socially and educationally backward classes and implementing various developmental schemes for them. These schemes are mainly in the field of education and income generation. All the ongoing schemes are critically examined and modified periodically to cater to the needs of different groups amongst the above communities. The government has also started various schemes to improve the quality of life of the rural poor, especially for the scheduled castes and scheduled tribes by making special provisions for them. 'Sampornma Grameen Rozgar Yojana' (SGRY) is one such programme, which was launched to safeguard the interest of the weaker sections and women by providing them wage employment. The 'Swarnjayanti Gram Swarozgar Yojana' (SGSY), another rural development scheme aims at bringing poor families above the poverty line by providing them with income generating assets through a mixture of credit and subsidy. The SGSY has

also made an explicit provision that 50 per cent of the Swarozgaris assisted should be from Scheduled caste and Scheduled Tribe communities.

Over the decades the Scheduled caste and scheduled tribe people are making rapid progress both in economic and social sphere. Today they are no more untouchables. The literate Schedule Caste and Scheduled tribe people are engaged in trade, commerce & industry, private & government services including police and armed forces.

Literates and Literacy Rate

All persons aged seven years and above, who can both read and write with understanding in any language including Braille are considered as literate. The total numbers of literate persons in the study area are 41183, which is 58.8 percent of the total population. Of the total number of literate persons 58.8 percent are male and the remaining 41.2 percent are female.

The overall literacy rate in the study area has been worked out to 69.3 percent. The gender wise distribution of literacy rate reveals that 78.8 percent of the literate persons are male and 59.2 percent are female. This creates a gender gap of 19.6 percent.

ANTICIPATED ENVIRONMENTAL IMPACTS & MITIGATION MEASURES

Impact on Ambient Air Quality

The mining is proposed to be carried out by opencast semi mechanized method. The air borne particulate matter generated by ore and handling operations as well as transportation is the main air pollutant. The emissions of Sulphur dioxide (SO₂), Oxides of Nitrogen (NO_x) contributed by vehicles plying on haul roads are marginal. Prediction of impacts on air environment has been carried out taking into consideration proposed production and net increase in emissions.

Mitigation Measures

1. Water sprinkling will be done on the haul roads twice in a day.
2. The dust generated during the process will be minimized by water spray at the working faces before and after the activity.
3. Plantation will be carried out on approach roads and in Lease boundary.
4. Planning transportation routes of mined material so as to reach the nearest paved roads by shortest route. (minimize transportation over unpaved road);
5. Personal Protection Equipments (PPE) like dust masks, ear plugs etc. will be provided to mine workers.
6. Rock breaker will be used for breaking over size boulders in order to reduce dust and noise generation, which otherwise would be generated due to secondary blasting.
7. Speed limit will be enforced to reduce airborne fugitive dust from vehicular traffic.
8. Deploying PUC certified vehicles to reduce their noise emission.
9. Haul road shall be covered with gravels
10. Spillage from the trucks will be prevented by covering tarpaulin over the trucks.

11. Ambient Air Quality Monitoring will be conducted on regularly basis to assess the quality of ambient air.
12. Proper maintenance of machines improves combustion process & makes reduction in the pollution.
13. Good maintenance and monitoring of fuel and oil will not allow significant addition in the gaseous emission.

NOISE ENVIRONMENT

Noise generated at the mine is due to semi mechanized mining operations and truck transportation activities. The noise generated by the mining activity dissipates within the mine. There is no major impact of the mining activity on the nearby villages. However, pronounced effect of above noise levels is felt only near the active working area.

The impact of noise on the villages is negligible as the villages are far located from the mine workings. Since there is no involvement of major machinery, the impact of noise levels will be minimal.

S. No.	Impact Prediction	Mitigation Measures
1	Noise Impact due to mining activities.	The noise levels from all the sources are periodical and restricted to particular operation.
2	Noise impact due to vehicular movement.	a) Proper maintenance, oiling and greasing of machines at regular intervals will be done to reduce the generation of noise. b) Plantation along the sides of approach roads, around office building and mine area will be done to minimize the propagation of noise. c) Personal Protective Equipments (PPE) like earmuffs/earplugs will be provided to all operators and employees working near mining machineries or at higher noise zone. d) Periodical noise level monitoring will be done

BIOLOGICAL ENVIRONMENT

S. No.	Impact Predicted	Suggestive measure
1	Disturbance of free movement/living of wild fauna	1. Care will be taken that noise produced during vehicles movement for carrying OB and ore materials are within the permissible noise level. 2. Care will be taken that no hunting of animals (birds) carried out by labours. 3. If wild animals are noticed crossing the core zone, it will not be disturbed at all 4. Laborers will not be allowed to discards food, plastic etc., which can attract animals near the core site

PROJECT: M/s SHYAM VENTURES

GONDPENDRI LIMESTONE MINE, AREA - 4.98 ha VILLAGE GONDPENDRI

APPLICANT: M/s SHYAM VENTURES PARTNER SHRI SANJAY AGRAWAL

		5. Only low polluting vehicle will be allowed for carrying ore materials. All vehicles allowed in the project site area will have to provide pollution under control certificate at the end of three months 6. Noise level will be within permissible limit (silent zone- 50dB during day time) as per noise pollution (regulation and control), rules, 2000, CPCB norms
2	Harvesting of flora	<ul style="list-style-type: none">• No tree cutting, chopping, lumbering, uprooting of shrubs and herbs should be allowed• Collections of economically important plants will be fully restricted

LAND ENVIRONMENT

S. No.	Impact Prediction	Mitigation Measures
1	Change in the Topography of the Land / Land Degradation	The proposed mining activity is carried out on flat land. After removal of ore body undulating portion will be created. All the broken area will be reclaimed by systematic backfilling and rehabilitated by afforestation so that landscape of the area is improved.
2	Solid waste generation	About 10% mineral wastes will be generated. Top Soil will be used on the barrier zone areas on which plantation will be raised.
3	Change in Drainage Pattern	Water flow / course will not be obstructed and natural drains or nallahs will not be disturbed. Run-off from mine and mineral stack will be prevented to avoid being discharged to surroundings, particularly to agricultural land. Garland drains and, catch pits has been constructed to prevent run off affecting the surrounding agricultural land. Green belt has been developed in boundary.
4	Impact on the Agricultural Practice at nearby area due to dust generation	Agriculture activities are practiced nearby areas may be impacted because of dust generation but mitigative measures such as regular water sprinkling on active areas for example haul roads, excavation sites will be strictly followed so that impact is minimized.

WATER ENVIRONMENT

S. No.	Impact Prediction	Mitigation Measures
1	Effect on the Ground Water Table	The Average site Elevation is 310 m from AMSL. Ground Water table is 35-40m AMSL. The mining activity will not intersect with the ground water table.

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GONDPENDRI Limestone MINE, AREA - 4.98 ha VILLAGE GONDPENDRI
APPLICANT: M/s SHYAM VENTURES PARTNER SHRI SANJAY AGRAWAL

2	Wash off from the dumps	No dumping has been proposed.
3	Soil Erosion	Reclamation of the mined out area will be done with plantation to avoid the soil erosion
4	Waste Water generation/ Discharge	Toilets with septic tanks will be used; hence no sewage / liquid effluent will be spread and contamination is also not expected
5	Siltation in nearby agriculture field	Garland drains have been constructed on the sloping side barrier of the ML area. The garland drain has been routed through settling tank to remove suspended solids from flowing into storm water.

ADDITIONAL STUDIES

DISASTER MANAGEMENT PLAN

In order to avoid any danger in the mine site at the end of life of mine a disaster management cell headed by local authority District Collector will be constituted. Police department health authorities, including doctor, ambulances and so on will have a vital part to play following a disaster along with the mine management, and they will be an integral part of the disaster management plan.

The disaster management plan is aimed to ensure safety of human life and property and protection of environment Following are the objective of the disaster management plan.

- (i) First Aid to injured.
- (ii) Rescue operation and provision of adequate medical facilities to the injured.
- (iii) Safety of the human life in the buffer zone if needed.
- (iv) Protecting and minimizing damage to property and the environment.
- (v) Initially restrict and ultimately bring the incident under control.
- (vi) Identify any dead.
- (vii) Inform to the administration, DGMS and statutory persons as per Rules.

PROJECT BENEFITS AND COSTS EVALUATION

The project will improve the physical infrastructure, social infrastructure like improvement of road conditions water supply during dry season, drainage, educational institutions and improved environmental conditions, etc. The project also provides direct employment to 20 persons and indirect employment to another 19 persons. It increases economic activities, better living standard, educational facility, health facility and infrastructural development. The project will contribute to district mineral fund which will directly provide aid to the local authority to fund the development projects. The management will provide free saplings of fruit bearing and other trees, etc. to local during rain for plantation. This will increase the consciousness in workers and near-by villagers for greenery. Fruit trees can contribute towards their financial gains.

The CER activities are increasingly being taken up by the project proponent not only as fulfilling of mandatory provisions but also for the formation or enhancement of brand

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GONDPENDRI LIMESTONE MINE, AREA - 4.98 ha VILLAGE GONDPENDRI
APPLICANT: M/s SHYAM VENTURES PARTNER SHRI SANJAY AGRAWAL

image. Besides the above, CER is seen more as a responsibility towards Environment & society rather than a business promotion activity.

Year wise allocation of funds for the above activities proposed to be taken up by the project proponent is provided in the table below:

Tentative allocation of funds for the various activities proposed to be taken up by the project proponent under CSR program

S. No	Activities	Tentative allocation of fund in Thousands				
		Year 1	Year 2	Year 3	Year 4	Year 5
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	Health awareness and camps for local community	25000	25000	25000	25000	25000
2	Financial Assistance for Construction of separate toilets for boys and girls in schools	40000	40000	40000	40000	40000
3	Water supply in dry season	15000	15000	15000	15000	15000
4	Green Belt Development in Buffer Zone	20000	20000	20000	20000	20000
Total		1 Lacs	1 Lacs	1 Lacs	1 Lacs	1 Lacs

All the activities listed above are for community development as a whole and not for individual person or a family. Each development initiative will be implemented in close collaboration with the village Panchayat. The Project proponent may avail the services of a NGO for the implementation of the above programme, if felt needed.

Budget for Environmental Protection

S. No.	Head	Annual Expenditure in Rs Per year
1.	Environmental Monitoring	1,00,000
2.	Water Sprinkling	1,00,000
3.	Green belt development with fencing including labour cost	1,00,000
4.	Garland drains	1,00,000
5	Tarpaulin sheet during transportation	50,000

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6	Distribution of PPE kit	50,000
8	Miscellaneous	50,000
	Total	5,50,000

Budget for Occupational Health

Particulars	Capital Cost (Rs.)	Recurring Cost (Rs.)
For routine checkup	--	1,00,000
Infrastructure &PPE's	50,000	50,000

Budget for Water, Shelter and Sanitation for Mine Worker

Scheme	Capital Cost (In Rs)	Recurring Cost (In Rs)/year
Drinking water facility	75,000	50,000
Rest shelter	25,000	15,000
Sanitation (Urinal and Toilet)	50,000	35,000
Total	150,000	1,00,000

CORPORATE ENVIRONMENT RESPONSIBILITY

Corporate Environment responsibility (CER) refers to responsibility of a company/ organization to ensure positive impact on environment, consumers, employees, communities, stakeholders and all other members of public sphere. The CER activities are increasingly being taken up by the project proponent not only as fulfilling of mandatory provisions but also for the formation or enhancement of brand image. Besides the above, CER is seen more as a responsibility towards Environment & society rather than a business promotion activity. It is the need of the day for expansion of Environment & occupational welfare. This will not only improve the socio-economic status of the people living in the nearby areas but also enhance the reputation of the project proponent among the local people.

Year wise allocation of funds for the above activities proposed to be taken up by the project proponent is provided in the table below:

Tentative allocation of funds for the various activities proposed to be taken up by the project proponent under CER program

Activities under CER	Expenditure in Rs	
	Capital cost	Recurring cost
Installation of Rain water harvesting system	70,000	5000

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GONDPENDRI LIMESTONE MINE, AREA - 4.98 ha VILLAGE GONDPENDRI
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Portable drinking water will be provided in the school for drinking purpose including (water filter)	10,000	3000
Installation of water tanks for the toilet for boys in school	10,000	2000
Green belt will be developed along the periphery of School with tree guard Rs. 250 tree guard + Rs. 50 per sapling	10,000	10000
Installation of Solar Panel in the school	30,000	5,000
Total	1,30,000/-	25000

Activities under CER	Expenditure in Rs	
	Capital cost	Recurring cost
Installation of Rain water harvesting system	60,000	5000
Portable drinking water will be provided in the school for drinking purpose including (water filter)	10,000	3000
Installation of water tanks for the toilet in High school Gondpendri	10,000	2000
Green belt will be developed along the periphery of School with tree guard Rs. 250 tree guard + Rs. 50 per sapling	10,000	10000
Installation of Solar Panel in the school	20,000	5,000
Total	1,10,000/-	25000

All the activities listed above are for community development as a whole and not for individual person or a family.

CONCLUSION

As discussed, it is safe to say that the proposed facilities are not likely to cause any significant impact to the ecology of the area, as adequate preventive measures will be adopted to keep the various pollutants within the permissible limits. Green belt development around the area will also be taken up as an effective pollution imitative technique, as well as to serve as biological indicators for the pollutants released from the premises of "Gondpendari Low grade Limestone Quarry."