

DRAFT ENVIRONMENT IMPACT ASSESSMENT REPORT & ENVIRONMENT MANAGEMENT PLAN Of

**Khursipar Cluster Limestone Quarry
(Under cluster)**

At

**Village: Khursipar, Tehsil: Khairagargh, District: Rajnandgaon,
State: Chhattisgarh**

Total Area- 5. 26 ha.

At Khasra No.

45, 26/1, 28, 29, 30/2 and 30/3,

73/2 Part, 90, 91/1, 91/2, 91/3, 102/1 and 102/2

Total Capacity in Cluster: 1, 45,000 Tons per annum.

EXECUTIVE SUMMARY ENGLISH

Applicant

Shri Ajay Maseeh

Shri Uttam Singh

Shri Bhupendra Singh



Contact: 8826287364, 9555548342
GSTIN-09AATFP5994MLZY
PAN- AATFP5994M



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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-Khursipar, Tehsil- Khairagarh, District-Rajnandgaon, State-Chhattisgarh, Geo-graphically the ML area extends from Longitude: 80°58'02.61"E to 80°58'02.99"E and Latitude: 21°20'15.99"N to 21°20'17.13"N

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

The life of the mine is anticipated at 14 years based on the level of exploration and reserve established as per UNFC classification and expecting the market demand will remain at 145,000 Tones/annum

Location

The mining lease is located in Village-Khursipar, Tehsil- Khairagarh, District-Rajnandgaon, State-Chhattisgarh Geo-graphically the ML area extends from Longitude 80°58'02.61"E to 80°58'02.99"E and Latitude: 21°20'15.99"N to 21°20'17.13"N

Connectivity

The QL Area Can Be Approached from SH-5 is approx. 2.41 km in in South Direction. The Nearest Railway Station Is Rajnandgaon railway station which is approx. 31 km Raipur Airport, Raipur-Approx. 72km in NE.

Mailing/ Correspondence Address of Project Proponent:

Sai Ram Enterprise.

Ajay Maseeh

Village – Khursipar, Tehsil – Khairagarh ,Dist – Rajnandgaon, (C.G.)

Size of the Project

The total Mine Lease areas considered is 5.26H The proposed production is

1,45,000 Tones/annum

Mailing/ Correspondence Address of Project Proponent:

Khursipar Limestone Quarry.

bhupendra Singh

Village – Khursipar, Tehsil – Khairagarh,Dist – Rajnandgaon, (C.G.)

Mailing/ Correspondence Address of Project Proponent:

M/s Rishabh Minerals.

Shri Uttam Singh

Village – Khursipar, Tehsil – Khairagarh, Dist – Rajnandgaon, (C.G.)

Anticipated Life of Project and Cost of the Project

The life of the mine is anticipated at 14 years based on the level of exploration and reserve established as per UNFC classification and expecting the market demand will remain at 1,45,000 Tones/annum

MINING

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

Production Plans for Five Years

Summary of Production of Mine (Sai Ram Enterprises)

Year wise Production	Area in m2	Depth in (m)	Volume	90 % recovery	B.D.	Limestone Tonnes
2023-24	2225	6m	4350	12015	2.5	30038
2024-25	2225	6m	4350	12015	2.5	30038
2025-26	2225	6m	4350	12015	2.5	30038
2026-27	2225	6m	4350	12015	2.5	30038
2027-28	2225	6m	4350	12015	2.5	30038

Table Fehler! Kein Text mit angegebener Formatvorlage im Dokument..3, Proposed Production Plan for 1st Five Years Period (Rishabh Minerals)

Year wise Production	Area in m2	Depth in (m)	Volume	B.D.	Limestone Tonnes
2022-23	10000	3 m	30000	2.5	75000
2023-24	10000	3 m	30000	2.5	75000
2024-25	10000	3 m	30000	2.5	75000
2025-26	10000	3 m	30000	2.5	75000

**“Khursipar Cluster Limestone Quarry” at Village- Khursipar, Tehsil-Khairagarh, District
- Rajnandgaon, Chhattisgarh by Sai Ram Enterprises, M/s Rishabh Minerals & Shri
Bhupendra Singh Saluja, Area – 5.26 Ha**

2024

2026-27	10000	3 m	30000	2.5	75000
Total			150000		375000

Proposed Development Plan for after Five Year Period (Shri Bhupendra Singh Saluja)

Year wise Production	Area in m2	Depth in (m)	Volume	B.D.	Limestone Tonnes
2023-24	5333	3 m	16000	2.5	40000
2024-25	5333	3 m	16000	2.5	40000
2025-26	5333	3 m	16000	2.5	40000
2026-27	5333	3 m	16000	2.5	40000
2027-28	5333	3 m	16000	2.5	40000
Total			80000		200000

**Details of present & end of the 5 year & end of the conceptual period land use pattern
(Sai Ram Enterprises)**

	Present Land Use	Area (SQ. MTR)
	Area Under Mining Use	00
1	Area Under Pits	00
2	Area Under Roads	0.020 ha
3	Area Under Building	00
4	Area Under Soil Dumps	00
5	Area Under Storage Of Limestone	00
6	Area Under Waste Dump	00
7	Area Under Plantation	00

**Details of present & end of the 5 year & end of the conceptual period land use pattern.
(M/s Rishabh Minerals)**

Articles	Land use at the end of 5 years in Ha	Forest Land	Agriculture/ Stony waste Land (Pvt. Owned Land) In Hect.	Land use at the end of lease period in Ha.
A. Lease Area	-	Nil	1.5990	-
B. Quarrying & allied	1.15			1.150
1. Area under pits		Nil	-	

**“Khursipar Cluster Limestone Quarry” at Village- Khursipar, Tehsil-Khairagarh, District
- Rajnandgaon, Chhattisgarh by Sai Ram Enterprises, M/s Rishabh Minerals & Shri
Bhupendra Singh Saluja, Area – 5.26 Ha**

2024

2. Area for dumping	0.440	Nil	-	0.440
3. Untouched Area	0.009	-	-	0.009
Total	1.5990		1.5990	1.5990

**Details of present & end of the 5 year & end of the conceptual period land use pattern.
(Shri Bhupendra Singh Saluja)**

Articles	Land use at the end of 5 years in Ha	Forest Land	Agriculture/ Stony waste Land (Pvt. Owned Land) In Hect.	Land use at the end of lease period in Ha.
A. Lease Area	-	Nil	2.0420	-
B. Quarrying & allied	1.330			1.330
1. Area under pits		Nil	-	
2. Area for dumping	0.700	Nil	-	0.700
3. Untouched Area	0.012	-	-	0.012
Total	2.0420		2.0420	2.0420

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.

Disposal of Waste

There are total approx. 22665 m³soil/OB generated from the pit area during in plan period. Volume of Soil with 20 % swell factor 27198 m³Soil will be used for back filling material in the excavated part of safety zone (which is 4255 m² up to 6.39 m depth). There will not be any sub grade mineral generated during mining only temporary stock of limestone will be dumped in the suitable place of the mine side. Hence it's staking site and design of stack has not been considered. The mineral rejects like shale and clay will be spread over peripheral dump.

Use of Mineral

Limestone is useful in many industries. Its uses in different industries depend upon its chemical constituent. It is used in iron and steel industries, refractory industries, Ferro alloys, chemical and glass industries, fertilizers, plant and rubber industries. In Chhattisgarh Limestone is mostly used in iron and steel industries. Most of the Limestone is used in Steel plant. To meet the demand of existing Limestone steel industries and industries which are yet to come in future?

General Features

I) Surface Drainage Pattern

Amner River lies at a distance of 7 Km in the

ii). Vehicular Traffic Density

The QL area can be approached from State Highway 49 which is at a distance of 3 km. Nearest Railway Station Is Rajnandgaon railway station which is approx. 31 km Raipur Airport, Raipur-Approx. 72km in NE.

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

iii) Water demand

Water requirement for the proposed project will be provided for the workers for drinking & domestic purpose. Water will also be provided for dust suppression. Fresh water will be only used for drinking purpose. The break up for water requirement is given below:

Manpower Requirement

About 45 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: Land use involves the management and modification of natural environment or wilderness in to built environment such as settlements and semi-natural habitats such as arable fields, pastures, and managed woods. It also has been

defined as "the total of arrangements, activities and inputs that people undertake in a certain land cover type.

Methodology Used for Land use Classification and Mapping

Table Fehler! Kein Text mit angegebener Formatvorlage im Dokument.-1 Land Use Pattern of the Study Area

S.No.	Particulars	Area (Ha.)
1.	Settlement	279.05
2.	Water Bodies	735.27
3.	Sand	5.3
4.	Stone Quarry	66.16
5.	Agricultural Land	30720.59
	Total Buffer Area	31806.37

There is no National Park, Biosphere reserve, Migratory routes of fauna and National Monument within 10km periphery of the lease area as per secondary data available. There is no habitation within lease area.

Analysis Results of Baseline Environment

(a) Results of Analysis of the Soil.

Samples collected from identified locations indicate the soil is sandy type and the pH value ranging from 6.72 to 7.91, which shows that the soil is alkaline in nature. Potassium is found to be from 76.31 mg/kg to 85 mg/kg. The water holding capacity is found in between 21.02% to 35.8%.

(b) WATER ENVIRONMENT

The pH limit fixed for drinking water samples as per IS-10500 Standards is 6.5 to 8.5 beyond this range the water will affect the mucus membrane or water supply system. During the study period, the pH was varying for ground waters from 7.09 to 7.18. The pH values for all the samples collected in the study area during study period were found to be within the limits.

The desirable limit for total dissolved solids as per IS-10500 Standards is 500 mg/l whereas the permissible limit in absence of alternate source is 2000 mg/l. In ground water samples collected from the study area, the total dissolved solids are varying from 343 mg/l to 512 mg/l. The TDS of the samples were within the desirable limit & the permissible limit of 500 mg/l & 2000 mg/l respectively.

(c) AMBIENT AIR QUALITY

The Ambient Air Quality Monitoring reveals that of monitoring stations with minimum Concentrations of PM10 were 43.05 $\mu\text{g}/\text{m}^3$ at AQ5 and maximum 68.31 $\mu\text{g}/\text{m}^3$ at AQ8. The result of PM2.5 reveals that the minimum concentration of 25.13 $\mu\text{g}/\text{m}^3$ at AQ5 while maximum concentration of 45.87 $\mu\text{g}/\text{m}^3$ was found at AQ1.

The gaseous pollutants SO₂ and NO_x were within the prescribed CPCB limit of 80 $\mu\text{g}/\text{m}^3$. For residential and rural areas at all stations. The minimum & maximum concentrations of SO₂ were found to be 9.03 $\mu\text{g}/\text{m}^3$ at AQ5 & 14.89 $\mu\text{g}/\text{m}^3$ at AQ8 respectively. The minimum & maximum concentrations of NO_x were found to be 10.06 $\mu\text{g}/\text{m}^3$ at AQ 5 & 20.13 $\mu\text{g}/\text{m}^3$ at AQ8 respectively.

The free silica content in PM10 was found to be minimum 1.01 $\mu\text{g}/\text{m}^3$ and maximum 2.65 $\mu\text{g}/\text{m}^3$ at AQ5 and AQ8 respectively.

(d) NOISE ENVIRONMENT

Noise monitoring reveals that the minimum & maximum noise levels at day time were recorded as 42.09 dB (A) at NQ-5 & 57.53 dB (A) at NQ8 respectively. The minimum & maximum noise levels at night time were found to be 38.31 dB (A) at NQ5 & 49.43 dB (A) at NQ8 respectively.

There are several sources in the 10 km radius of study area, which contributes to the local noise level of the area. On the commencement of the project, the sound from traffic activities will add to the ambient noise level of the area. This will be kept under check by taking proper suggestive measures.

(e) BIOLOGICAL ENVIRONMENT

The biodiversity we see today is the fruit of billions of years of evolution, shaped by natural processes. The vast array of interactions among the various components of biodiversity makes the planet habitable for all species, including humans. There is a growing recognition that, biological diversity is a global asset of tremendous value to present and future generations. At the same time, the threat to species and ecosystems has never been as great as it is today. Species extinction caused by human activities continues at an alarming rate. Protecting biodiversity is in our self-interest.

The biological study was under taken by Ecology & Biodiversity Expert, as a part of the EIA study report to understand the present status of ecosystem prevailing in the study

area, to compare it with past condition with the help of available data, to predict changes in the biological environment as a result of present activities and to suggested measures for maintaining its health.

(f) Socio- economic

Study Area:The proposed project as a center, a radial distance of 10 km is considered as study area for baseline data collection and environmental monitoring. The baseline environment quality was carried out over a radial distance of 10 km around the mining lease area during Winter Season Season covering the months of Dec. 2022 to Feb. 2023.

QoL: The Quality of Life (QoL) refers to degree to which a person enjoys the important possibilities of his/her life. The ‘Possibilities’ result from the opportunities and limitations, each person has in his/her life and reflect the interaction of personal and environmental factors. Enjoyment has two components: the experience of satisfaction and the possession or achievement of some characteristic.

Household: A group of persons who normally live together and take their meals from a common kitchen are called a household. Persons living in a household may be related or unrelated or a mix of both. However, if a group of related or unrelated persons live in a house but do not take their meals from the common kitchen, then they are not part of a common household. Each such person is treated as a separate household. There may be one member households, two member households or multi-member households.

Sex Ratio: Sex ratio is the ratio of females to males in a given population. It is expressed as 'number of females per 1000 males.

Literates: All persons aged 7 years and above who can both read and write with understanding in any language are considered as literate. It is not necessary for a person to have received any formal education or passed any minimum educational standard for being treated as literate. People who are blind but can read in Braille are also treated as literates.

Literacy Rate: Literacy rate of population is defined as the percentage of literates to the total population aged 7 years and above.

Labour Force: The labour force refers to number of people employed and unemployed in a geographical entity. The size of the labour force is the sum total of persons employed and unemployed. An unemployed person is defined as a person not employed but actively seeking work. Normally, the labour force of a country consists of everyone of working age (commencing from 16 years) and below retirement (65 years) that are participating workers, that is people actively employed or seeking employment. People not counted under labour force are students, retired persons, stay-at home people, people in prisons, permanently disabled persons and discouraged workers.

Work: Work is defined as participation in any economically productive activity with or without compensation, wages or profit. Such participation may be physical and/or mental in nature. Work involves not only actual work but also includes effective supervision and direction of work. The work may be part time or full time or unpaid work in a farm, family enterprise or in any other economic activity.

Worker: All persons engaged in 'work' are defined as workers. Persons who are engaged in cultivation of land or milk production even solely for domestic consumption are also treated as workers.

Main Workers: Those workers who had worked for the major part of the reference period (i.e. 6 months or more in the case of a year) are termed as Main Workers.

Marginal Workers: Those workers who did not work for the major part of the reference period (i.e. less than 6 months) are termed as Marginal Workers.

Work Participation Rate: The work participation rate is the ratio between the labour force and the overall size of their cohort (national population of the same age range). In the present study the work participation rate is defined as the percentage of total workers (main and marginal) to total population.

Birth Rate: The ratio of total live births to total population in a specified community or area over a specified period of time. The birth rate is often expressed as the number of live births per 1,000 of the population per year.

Death Rate: The ratio of total deaths to total population in a specified community or area over a specified period of time. The death rate is often expressed as the number of deaths per 1,000 of the population per year. It is also called fatality rate or mortality rate.

Maternal Mortality Rate: The maternal mortality rate refers to number of maternal deaths per 1,000 women of reproductive age in the population (generally defined as 15-44 years of age).

Infant Mortality Rate: The infant mortality rate refers to number of deaths of children less than 1-year-old per 1000 live births.

8.0 Baseline Data

Baseline data refers to basic information collected before a project/scheme is implemented. It is used later to provide a comparison for assessing impact of the project. Any attempt to collect base line data while undertaking actual impact assessment study is faced with recall error. The baseline data was collected from secondary sources. It consists of demographic particulars and amenities. The data presented in the table below pertains to study area as a whole.

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	<ul style="list-style-type: none"> • Care will be taken that noise produced during vehicles movement for carrying OB and ore materials are within the permissible noise level. • Care will be taken that no hunting of animals (birds) carried out by labours. • Labours will not be allowed to discards food, plastic etc.,

		<p>which can attract animals near the core site.</p> <ul style="list-style-type: none"> • 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 • 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 in hilly region and waste land After removal of ore body, a 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 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 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
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1	Effect on the Ground Water Table	Max Elevation of the ML area is 267m AMSL Ultimate depth of mine is up to 266m AMSL. Ground Water table is 25m to 30m AMSL. The mining activity will not intersect with the ground water table.
2	Wash off from the dumps	No dumping has been proposed.
3	Soil Erosion	Reclamation of the minedout area will be done with plantation to avoid the soil erosion
4	Waste Water generation/ Discharge	Portable Bio-toilets will be used; hence no sewage / liquid effluent will be generated and contamination is also not expected due to percolation.
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 injure.
- (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 50 persons and indirect employment to another 40 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 CSR 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, CSR is seen more as a responsibility towards 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:

Budget for Environmental Protection

Sl. No	Description	Capital Cost 1 st year (Rs)	Recurring Cost (Rs) 2 nd year
1	Pollution Control & Dust Suppression	1,20,000	1,20,000
2	Pollution Monitoring	-	30,000
3	Plantation and salary for one gardener (part time basis).	148,000	148000
4	Haul road Maintenance Cost (50 m)	2,00,000	2,00,000
5	Occupational health and safety cost	50000	50000
TOTAL (Rs)		5,18,000	5,48,000

Budget for Occupational Health

Particulars	Capital Cost (Rs.)	Recurring Cost (Rs.)
For routine checkups	--	50,000
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	50,000	20,000

Rest shelter	50,000	20,000
Sanitation (Urinal and Toilet)	1,00,000	30,000
Total	2,00,000	70,000

CORPORATE ENVIRONMENT RESPONSIBILITY

2% of capital cost of the project cost will be allotted for the Corporate Environmental Responsibility as per on dated 1st May 2018. Proposed CER budget is **Rs. 3.56 Lakhs.**

For each activity the funds to be earmarked by the proponent will be decided after discussion with the local authority/people and the beneficiaries during Public Hearing. It has been planned to undertake a concurrent evaluation of the activities to be taken up under the CER programme.

Table 8.4: CER Cost

S.no	Project	Total Cost	Total CER Cost
1	Khursipar Limestone Quarry	Rs 1.78 Cr.	Rs 3.56 Lakhs

Table 8.5: CER Cost

S. No	Activities	Fund in lakhs/ year (Capital Cost in lakh)
1	Mitran will be developed in the government land of Khursipar village in association with Gram Panchayat.	3.53
TOTAL		3.56 Lac

CONCLUSION

The project will throw opportunities to local people for both direct and indirect employment. The proposed mining operation in the state will not only fetch income to the state exchequer but also ensure healthy development of proposed mining in the state of Chhattisgarh. Illegal mining and unorganized mining pose a much bigger health hazard whereas organized mining under QL facilities to undergo periodic health check-ups.

At present agriculture is the main occupation of the people living in the study area. Due to mining project the occupational pattern of the people in the area will change making more people engaged in industrial and business activities there by leading to urbanization. It is expected that education, health, housing, water and electricity etc. facility will improve to due to this mining project and associated industrial and business activities.

**“Khursipar Cluster Limestone Quarry” at Village- Khursipar, Tehsil-Khairagarh, District
- Rajnandgaon, Chhattisgarh by Sai Ram Enterprises, M/s Rishabh Minerals &Shri
Bhupendra Singh Saluja, Area – 5.26 Ha**

2024