DRAFT ENVIRONMENT IMPACT ASSESSMENT REPORT & ENVIRONMENT MANAGEMENT PLAN of Executive Summary English

Dhaur Limestone (Low grade) Quarry

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Village: Dhaur, Tehsil: Patan, District: Durg, State: Chhattisgarh, Area 9.94 ha at khasra no. 434/1,434/2,434/3,343/4,434/5,434/6,434/7,434/8,434/9,434,10,434/11,434/12,434/13,4 53/1P,434/14,455,456,458/1P,469 P,471 P,560P,561/1 P, 561/2,561/3 P,561/5 P,561/6, Capacity: 2,00,000 Tons per annum

Proposal No. SIA/CG/MIN/77084/2022

Applicant

M/s Rama Buildcon & Real Estate Pvt. Ltd. Prop. Mr. Kamal Agrawal



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 Dhaur, Tehsil- Patan, District- Raipur (C.G.) Geographically the QL area extends from Longitude $81^{\circ}26'01.63"$ E to $81^{\circ}26'13.03"$ E and Latitude 21° 06'46.09"N to 21° 07'06.42"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 30 years based on the level of exploration and reserve established as per UNFC classification and expecting the market demand will remain at 2,00,000 Tonnes per Year.

Location

The mining lease is located in village of Dhaur, Tehsil- Patan, District- Raipur (C.G.) Geographically the QL area extends from Longitude $81^{\circ}26'01.63"$ E to $81^{\circ}26'13.03"$ E and Latitude 21° 06'46.09"N to 21° 07'06.42"N

Connectivity

The lease area is about 14 km from Patan. The QL area can be approached from State Highway-22 which is at a distance of 1 km. The Nearest Railway Station is Maroda Railway Station at 10 km. The Nearest Airport is Swami Vivekanand Airport at a distance of 33km.

Mailing/ Correspondence Address of Project Proponent:

M/s Rama Buildcon and Real Estate Pvt. Ltd. Prop. Mr. Kamal Agrawal ATM chowk Avanti Vihar Raipur Chhattisgarh, 493663

Size of the Project

The total Mine Lease areas considered is 9.94 ha. The proposed production is 2,00,000 Tonnes per Year.

Anticipated Life of Project and Cost of the Project

The life of the mine is anticipated at 16 years based on the level of exploration and reserve established as per UNFC classification and expecting the market demand will remain at 2,00,000Tonnes 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 inter burden.

Year wise Production details

Year mRL Area Depth Volume Density Production Recovery wise (m^2) (m) (m^3) (MT) 90% 1st year 299-298.5 5467 0.5 2733.5 2.5 6833.75 6150.375 298.5-297 4896 1.5 7344 2.5 18360 16524 297-295.5 4340 1.5 6510 2.5 16275 14647.5 295.5-294 3801 1.5 5701.5 2.5 14253.75 12828.375 294-292.5 3281 1.5 4921.5 2.5 12303.75 11073.375 292.5-291 2785 1.5 4177.5 2.5 10443.75 9399.375 291-289.5 2315 1.5 3472.5 2.5 8681.25 7813.125 299-298.5 10563 0.5 5281.5 2.5 13203.75 11883.375 Total 100355.00 90319.50 298.5-297 9920 1.5 14880 2.5 37200 33480 297-295.5 9293 1.5 13939.5 2.5 34848.75 31363.875 295.5-294 8684 1.5 13026 2.5 32565 2nd year 29308.5 294-292.5 8092 1.5 12138 2.5 30345 27310.5 292.5-291 4011 1.5 6016.5 2.5 15041.25 13537.125 Total 150000 135000 292.5-291 3506 1.5 5259 2.5 13147.5 11832.75 291-289.5 6960 1.5 10440 2.5 26100 23490 289.5-288 6420 3rd year 1.5 9630 2.5 24075 21667.5 288-286.5 5897 1.5 8845.5 2.5 22113.75 19902.375 286.5-285 5392 1.5 8088 2.5 20220 18198

PRODUCTION PLAN FOR FIVE YEARS

		750355.00	675319.50				
		Grand To	Total			150000	135000
	282-280.5	2390	1.5	3585	2.5	8962.5	8066.25
-	283.5-282	3554	1.5	5331	2.5	13327.5	11994.75
- - -	285-283.5	3967	1.5	5950.5	2.5	14876.25	13388.625
ľ	286.5-285	4400	1.5	6600	2.5	16500	14850
	288-286.5	4853	1.5	7279.5	2.5	18198.75	16378.875
	289.5-288	7084	1.5	10626	2.5	26565	23908.5
Jour	291-289.5	7785 ·	1.5	11677.5	2.5	29193.75	26274.375
5 th year	292.5-291	5967	1.5	8950.5	2.5	22376.25	20138.62
		- -	l	L		200000.00	180000.0
	292.5-291	2538	1.5	3807	2.5	9517.5	8565.75
	294-292.5	9245	1.5	13867.5	2.5	34668.75	31201.87
	295.5-294	10004	1.5	15006	2.5	37515	33763.5
4 th year	297-295.5	10782	1.5	16173	2.5	40432.5	36389.25
4	298.5-297	11580	1.5	17370	2.5	43.425	3.90.82.5
	299-298.5	12400	0.5	6200	2.5	15500	13950
	280.5-279	3551	1.5	5326.5	2.5	13316.25	11984.62
	282-280.5	1500	1.5	2250	2.5	5625	5062.5
					· · · · · · · · · · · · · · · · · · ·	150000	13500
	282-280.5	2484	1.5	3726	2.5	9315	8383.5
•	283.5-282	4436	1.5	6654	2.5	16635	14971.5
	285-283.5	4905	1.5	7357.5	2.5	18393.75	16554.37

Ar	ticles	Present Land use	Forest Land	Agricul ture Land	Stony waste Land	Land use at the end of 5 year of lease period in Hect.	Land use at the end of Conceptual period in Hect.
A.	Lease area	9.94	Nil	Nill	Nil	9.94	9.94
В.	Quarrying & allied						
1.	Area under pit	Nil	Nil	Nil	Nil	2.842	6.33.9
2.	Area of Safety Zone	· Nil	. Nil	Nil	Nil	1.932	1.932
3.	Area for Dump	Nil	Nil	Nil	Nil	1.187	1.187
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
	Crushing unit with road and office	Nil	Nil	Nil	Nil	0.475	0.475
9.	Unused area	Nil	Nil	Nil	Nil	3.504	0.007
	Total	9.94	Nİ	Nil	Nil	9.94	9.94

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

***Note -Plantation/ Dumping planned on safety zone area.

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:-

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:** -Only top soil will be removed from the lease area. Total 28430 m³ soil will be generated from the area. 12647 m3 soil will be used in non mining zone area at 1.06m height and remaining soil 18626 cum will be dumped on 19323 m2 safety zone area approx. 1.5 m height.

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

Selection of Dumping Site:

Only top soil will be removed from the lease area. Total 28430 m³ soil will be generated from the area. 12647 m3 soil will be used in non mining zone area at 1.06m height and remaining soil 18626 cum will be dumped on 19323 m2 safety zone area approx. 1.5 m height.

Method and manner of disposal of waste: Top soil excavated from the height of Max 1.0 to 2.0 m and will be dumped at safety barriers around the lease area and will be used for plantation purpose at safety zone.

General Features

I) Surface Drainage Pattern

In the Study area of Kharun River (15 km West)

ii). Vehicular Traffic Density

The lease area is about 12 km from Raipur. The QL area can be approached from State Highway-22 which is at a distance of 1 km. The Nearest Railway Station is Maroda Railway Station at 10 km. The Nearest Airport is Swami Vivekanand Airport at a distance of 33 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	164	1100	0.14	Α

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: 2,00,000 tonnes per annum
- No. of working days : 240 days
- Production / day : 833.3 tonnes per day
- Carrying capacity of truck : 10 tonnes
- No. of truck trips/day :83
 - Working Hours per day : 8 hours
- No. of truck trips/hr : 10.4= 11 (i.e. 11 truck every 1 hr)

<u>Traffic Scenario & LOS</u>					
Road	Increased PCU'S- SH-22 Rd	V	С	Modified V/C Ratio	LOS
State Highway 09	164 +33	197	1100	0.17	А

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

No processing of mineral will be done in the mine. Only simple sizing and sorting will be done.

Manpower Requirement

About 60 persons will be getting direct and 19 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: The land-use is divided into agriculture land, settlement, and river and forest area as shown in the map. The area is fertile and dominated by the proportion of agriculture land.

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

S. No.	Land Use Type	Area (in ha)
1	Open Land	570.153
2	Water body	101.357
3	Settlement	323.258
4	Agriculture	30421.16
	Total	31415.93

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.

The analysis results show that soil is basic in nature as pH value ranges from 6.78 to 7.22 showing the saline property of soil. High electrical conductivity (372 to 445 μ S/cm) is observed in the analysis report showing soil electrical behavior and dissolved solids in soil. The presence of Nitrogen content varies from 0.062 to 0.074 %. 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 eight locations in the Post-monsoon season as discussed above for organoleptic & physical parameters, general parameters, toxic and biological parameters. The analysis results at the 8 ground water locations and two surface water locations are given below:

The analysis results indicate that pH of the groundwater is in range of 7.01 – 7.15. The TDS were found to be in the range of 333-510 mg/l. Total Hardness is in range of 169.15 – 183.42 mg/l. The analysis results indicate that pH of the surface water to be in range of 7.67–7.78. The TDS is found to be in the range of 613-645 mg/l. Total Hardness is in range of 412-481 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 Ten monitoring stations the minimum concentrations of PM2.5 are 18.14 μ g/m3 at AQ5 (Silent Zone) and maximum 43.10 μ g/m3 at AQ8 (Max GLC & Transport Convergence). The results of PM10 reveal that the minimum concentration of 36.15 μ g/m3 at AQ9 (Silent Zone) while maximum concentration of 72.41 μ g/m3 is found at AQ8 (Max GLC & Transport Convergence). These values for PM10 and PM2.5 are within prescribed CPCB limit of 100 μ g/m3 and 60 μ g/m3 respectively for residential and rural areas at all stations.

The gaseous pollutants SO2 and NO2 are within the prescribed CPCB limit of 80 $\mu g/m3$ for residential and rural areas at all stations. The minimum & maximum concentrations of SO2

were found to be 9.01μ g/m³ at AQ5 (Silent Zone) & 17.78 μ g/m³ at AQ8 (Max GLC) respectively. The minimum & maximum concentrations of NO2 are found to be 9.13μ g/m³ at AQ5 (Silent Zone) & 17.52 μ g/m³ at AQ8 (Max GLC), 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 60.4 dB (A) at NQ6 (Commercial Zone) and 39.2 dB (A) at NQ5 (Silent Zone) and maximum & minimum noise levels at night time were recorded in the range of 47.2 dB (A) at NQ6 (Commercial Zone) and 30.1 dB (A) at NQ9 (Silent Zone), 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	 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., which can attract animals near the core site. 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	 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 flat 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. And rest area is used as water reservoir and used for pisciculture
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.	Impact Prediction	Mitigation Measures
No.		
1	Effect on the Ground Water Table	Max Elevation of the ML area is 289 m AMSL Ultimate depth of mine is up to 263.5 AMSL. Ground Water table is 40m below ground level. 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 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 n	nearby	Garland drains have been constructed on the sloping side
	agriculture field	d	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 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:

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

S. No	Activities	Tentative allocation of fund in Thousands					
		Year	Year	Year	Year	Year	
		1	2	3	4	5	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
1	Health awareness and camps for	2500	25000	25000	2500	25000	
	local community	0			0		
2	Financial Assistance for	4000	40000	40000	4000	40000	
	Construction of separate toilets	0			0		
	for boys and girls in schools						
3	Water supply in dry season	1500	15000	15000	1500	15000	
		0			0		
4	Green Belt Development in	2000	20000	20000	2000	20000	
	Buffer Zone	0			0		
	Total		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

Particulars	Capital Cost	Recurring Cost/ year in Rs.
Environ	mental Protection	
Dust Suppression	1,30,000	25,000
Tarpaulin and cover for stack of ore	1,00,000	15,000
		30,000 (Air – 11,000
Environmental Monitoring	1,40,000	Water -9000
		Soil and Noise- 10000)
Green Belt & Tree guards	80,000	30,000
Total	4,50,000	1,00,000

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

Budget for Occupational Health

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:

We will do plantation or develop mitra van in government lab in consultation with sarpanch of the resepective village

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 mitigative technique, as well as to serve as biological indicators for the pollutants released from the premises of "Dhaur Low grade Limestone Quarry."