

EXECUTIVE SUMMARY

FOR

BALANDA STONE QUARRY

(7,9,14,15,16)

(Under Cluster)

At

**Plot no. 2473/P , 1899/P , 2008/P , 2009/P , 2473/P , 2473/P &
2010/P and 1893/P & 2010/P, Khata No504 , 506**

**Village- Balanda, Tehsil- Lathikata,
District- Sundargarh, Odisha**

**Area: Proposed area 44.05 acres or 17.823 hectares out
of total cluster area 95.6 acres or 38.687 hectares**

Proposed Production: 210208.4 cu.m/year

PROJECT PROPONENT :

**Sri Bijay Kumar Agarwal & Others
Plot no-V/4,Civil Township, Rourkela
P.S-Raghunathpalli
Odisha-769004**

Environment Consultant :

**P and M Solution (Accredited by
QCI/NABET)**

Accreditation No. : NABET/EIA/1992/IA0053 Validity Period :

**Till 10th Dec., 2022
C-88, Sector 65 Noida
www.pmsolution.in**



EXECUTIVE SUMMARY

INTRODUCTION

Balanda Stone Quarry Cluster – (7, 9, 14, 15 & 16) is located at village Balanda, Tehsil – Lathikata, District- Sundargarh in Odisha.

The proposed project is in cluster situation as other leases are within 500 m radius of lease & total lease area becomes greater than 5 ha. So, as per the EIA notification 2006 and its subsequent amendment, proposed project fall in category B1.

There are 14 projects in total which lie within 500m radius of each other. Of which, **05 projects are currently proposed**, 03 project are operating mines, 02 projects are non- operating mines and 04 projects are Extinct. **The 05 Projects that are Proposed in cluster now are Balanda Stone Quarry Cluster - 7,9,14,15 & 16** and 03 Projects are Operating Mines i.e. Balanda Stone Quarry Cluster - 2, 3, 10 and 02 Projects are Non-Operating Mines i.e. Balanda Stone Quarry Cluster – 1, 8 and 04 Projects are Extinct Mines i.e. Balanda Stone Quarry Cluster – 4, 5, 6, 11. The proposed project lies near village Balanda, Tehsil- Lathikata, District – Sundargarh of Odisha over an area of 17.823 Ha, 44.05 Acres

The Environmental Impact Assessment (EIA) study report is prepared for obtaining Environmental Clearance (EC) from SEAC for the proposed project.

Table -1, Detail of the lease area in cluster

S. N	Mine	Proponent	LandSchedu	Area (Acres	Production (cum/year)	Status of Mine
1	Balanda Stone Quarry-1	Natwarlal Bansal	KhataNo-504 Plot No – 1897/P	4.249 Ha 10.50 Acres	38054	It is a Running source and Lease will expire on Dt. 19.12.2023
2	Balanda Stone Quarry- 2	Kameswar Tiwari	Khata No-504 Plot No – 1897/P	4.876 Ha 12.05 Acres	100019.6	Operating Mine
3	Balanda Stone Quarry- 3	Shankarlal Agarwal	Khata No-504 Plot No – 1893/P	4.046 Ha 10.00 Acres	97097.0	Operating Mine
4	Balanda Stone Quarry-4	NA	NA	NA	NA	Extinct Mine

5	Balanda Stone Quarry-5	NA	NA	NA	NA	Extinct Mine
6	Balanda Stone Quarry-6	NA	NA	NA	NA	Extinct Mine
7	Balanda Stone Quarry-7	Essen Construction	Khata No-506 PlotNo-2473/P	4.046 Ha 10.00 Acres	50049	TOR Granted on 08-02-2024 (Proposed Quarry)
8	Balanda Stone Quarry-8	Punam D Sahu	Khata No-238(Sabak) PlotNo-2292/P	2.832 Ha 7.00 Acres	60004	It is a Running source and Lease will expire on Dt. 19.12.2023
9	Balanda Stone Quarry-9	No Successful bidder finalized	Khata No-504 PlotNo-2008/P 1899/P 2009/P	4.876 Ha 12.05 Acre	50057.8	TOR Granted on 08-02-2024 (Proposed Quarry)
10	Balanda Stone Quarry-10	Prem Kumar Sahu	KhataNo-504 Plot No - 1899/P	4.856 Ha 12.00 Acres	12086.2	Operating Mine
11	Balanda Stone Quarry-11	NA	NA	NA	NA	Extinct Mine
12	Balanda Stone Quarry-14	Bijay Kumar Agarwal	Khata No-506 PlotNo-2743/P	2.832 Ha 7.00 Acres	15016	TOR Granted on 08-02-2024 (Proposed Quarry)
13	Balanda Stone Quarry-15	Katakata Jagnyanarayan Prusty	Khata No-506 504 PlotNo-2473/P	2.023 Ha 5.00 Acres	15015	TOR Granted on 08-02-2024 (Proposed Quarry)

			2010/P			
14	Balanda Stone Quarry-16	Katakata Jagnyanarayan Prusty	Khata No- 504 Plot No – 1893/P 2010/P	4.046 Ha 10.00 Acres	80070.6	TOR Granted on 08-02-2024 (Proposed Quarry)
	Total			95.6 Acres. 38.687 Ha	Cluster Production is 5,17,469.2 cum/year	

PROJECT DESCRIPTION

Location of the Project- The Balanda Stone Quarry Cluster - 7, 9, 14, 15 & 16 in village-Balanda, Tehsil – Lathikata, District- Sundargarh, Odisha. The area falls in Survey of India Topo sheet No. F45G12 & F45G16.

Table 2, List of GPS Boundary Pillar Co-Ordinates

S.NO	LONGITUDE	LATITUDE
Balanda Stone Quarry 7		
P1	22° 11' 21.45" N	84° 45' 34.90" E
P2	22° 11' 21.37" N	84° 45' 24.21" E
P3	22° 11' 25.66" N	84° 45' 24.18" E
P4	22° 11' 25.72" N	84° 45' 34.64" E
Balanda Stone Quarry 9		
P1	22° 11' 13.43" N	84° 44' 42.19" E
P2	22° 11' 15.43" N	84° 44' 54.24" E
P3	22° 11' 10.75" N	84° 44' 54.49" E
P4	22° 11' 08.91" N	84° 44' 43.08" E
Balanda Stone Quarry 14		
P1	22° 11' 28.44" N	84° 45' 34.26" E
P2	22° 11' 28.98" N	84° 45' 26.78" E

P3	22° 11' 32.96" N	84° 45' 22.68" E
P4	22° 11' 32.76" N	84° 45' 31.87" E
Balanda Stone Quarry 15		
P1	22° 11' 15.27" N	84° 45' 26.51" E
P2	22° 11' 15.55" N	84° 45' 20.85" E
P3	22° 11' 19.18" N	84° 45' 20.76" E
P4	22° 11' 19.18" N	84° 45' 26.29" E
Balanda Stone Quarry 16		
P1	22° 11' 15.36" N	84° 45' 12.42" E
P2	22° 11' 16.20" N	84° 45' 05.18" E
P3	22° 11' 22.09" N	84° 45' 05.42" E
P4	22° 11' 21.26" N	84° 45' 12.45" E

Area & production: Balanda Stone Quarry Cluster – (7, 9, 14, 15 & 16) over an area of 17.823 Ha, 44.05 Acres whereas Total Cluster Area is 38.687 Ha, 95.6 Acres The total Cluster Production is 5,17,469.2cum/year and total proposed production is 210208.4cum/year of Stone. Estimated cost of the project is Rs. 45.2829 crore.

Connectivity:

The nearest railway station is Kansbahal Railway station, approx. 8.55 km in WNW direction. Biju Patnaik International Airport is approx.245.10 Km towards SE direction. The area is well connected with SH-10 & NH 143 by an all other road

Identification of project proponent

Mine	Proponent	Area (Acres)	Production (cum/year)	Status of Mine
Balanda Stone Quarry-1	Natwarlal Bansal	4.249 Ha 10.50 Acres	38054	It is a Running source and Lease will expire on Dt. 19.12.2023
Balanda Stone	Kameswar Tiwari	4.876 Ha 12.05 Acres	100019.6	Operating Mine

Quarry- 2				
Balanda Stone Quarry- 3	Shankarlal Agarwal	4.046 Ha 10.00 Acres	97097.0	Operating Mine
Balanda Stone Quarry-4	NA	NA	NA	Extinct Mine
Balanda Stone Quarry-5	NA	NA	NA	Extinct Mine
Balanda Stone Quarry-6	NA	NA	NA	Extinct Mine
Balanda Stone Quarry-7	Essen Construction	4.046 Ha 10.00 Acres	50049	TOR Granted on 08-02-2024 (Proposed Quarry)
Balanda Stone Quarry-8	Punam D Sahu	2.832 Ha 7.00 Acres	60004	It is a Running source and Lease will expire on Dt. 19.12.2023
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Balanda Stone Quarry-11	NA	NA	NA	Extinct Mine
Balanda Stone Quarry-14	Bijay Kumar Agarwa	2.832 Ha 7.00 Acres	15016	TOR Granted on 08-02-2024 (Proposed Quarry)
Balanda Stone Quarry-15	Katakata Jagnyanarayan Prust	2.023 Ha 5.00 Acres	15015	TOR Granted on 08-02-2024 (Proposed Quarry)
Balanda Stone Quarry-16	Katakata Jagnyanarayan Prusty	4.046 Ha 10.00 Acres	80070.6	TOR Granted on 08-02-2024 (Proposed Quarry)
Total		95.6 Acres. 38.687 Ha	Cluster Production is 5,17,469.2 cum/year	

Table 2: Salient Features of Project

Name of Mine	Balanda Stone Quarry Cluster (7, 9, 14, 15 & 16)
Village	Balanda
Tehsil	Lathikata
District & State	Sundargarh, Odisha
Toposheet Number	F45G12 & F45G16.
Area (ha)	17.823 Ha, 44.05 Acres (Applied Area) 38.687 Ha, 95.6Acres (Total Cluster Area)

Table 3: Basic Requirements for the project

S. No.	Requirements	Quantity	Source
1	Land	17.823 ha (Proposed Area) 38.687 ha (Total cluster Area)	
2	Water	54.788 ~ 55.0 KLD	4.48 KLD will be for drinking/domestic purpose which will be abstracted from bore well. Water demand will be made from mine sump.
3	Manpower	448	From nearby villages

Table 4: Details of Mining

Method of mining	Opencast semi-mechanized method
Bench Height and Width	Height – 6.0 m and Width –more than height
Ground Water Depth level	20m to 30m

MINING METHOD

In the applied ease area mining of rock mass will be worked out opencast method of mining. Handling of rock mass will be done both manually and by excavators, Handpicks, jack hammer, drill compressor, rock breaker, spade, chisel, hammer will be used by manual labors for sorting and sizing. Loosening of rock mass will be done by drilling and blasting. The excavated rock mass will be loaded in Tractors/Tippers by excavators or loaders.

DESCRIPTION OF THE ENVIRONMENT

The baseline environment quality was carried out over a radial distance of 10 km around the mining lease area during post monsoon season of 2023 covering the months of October, 2023 to December, 2023.

Meteorology

The data collected from IMD includes wind speed, wind direction, temperature, relative humidity and rainfall for the year 2023. The monthly maximum, minimum and average values are collected for all the parameters except wind speed and direction. The collected data is tabulated below:

Summarized project site meteorological data for post-monsoon

Month	Temperature °C		Wind speed		Relative Humidity (%)	Rainfall (mm)	
	Min	Max	Max	Avg	Avg	Avg	Days
October 2023	21	31	9.9	6.2	66	66.78	2
November 2023	18	30	10.4	7	53	1.56	0
December 2023	15	26	10	6.6	53	43.33	3

Ambient Air Quality

To assess the ambient air quality level, 8 monitoring stations were set up. Ambient air quality monitoring was carried out twice a week with a frequency of 24 hours for 12 weeks. The results when compared with National Ambient Air Quality Standards (NAAQS) of Central Pollution Control Board (CPCB) for "Industrial, Residential, Rural and Other Areas" show that the average values of ambient air quality parameters are well within the stipulated limit.

Ambient Air Quality Monitoring (AAQM) has been carried out at eight locations.

The minimum and maximum level of PM_{2.5} recorded within the study area was in the range of 25.04µg/m³ to 46.82µg/m³ with the 98th percentile ranging between 30.46µg/m³ to 46.68µg/m³.

The minimum and maximum level of PM₁₀ recorded within the study area was in the range of 64.49 to 88.03µg/m³ with the 98th percentile ranging between 72.93µg/m³ to 87.40µg/m³.

The minimum and maximum concentration of SO₂ recorded within the study area was 6.00 to 16.84µg/m³ with the 98th percentile ranging between 7.12µg/m³ to 16.72µg/m³.

The minimum and maximum level of NO₂ recorded within the study area was in the range of 5.79µg/m³ to 19.33µg/m³ with the 98th percentile ranging between 7.59µg/m³ to 19.30µg/m³.

Noise Quality

The values of noise observed in some of the areas are primarily owing to vehicular traffic. Assessment of hourly night time Leq (Ln) varies from 39.2 to 45.8 dB (A) and the hourly daytime Leq (Ld) varies from 51.5 to 58.2 dB (A) within the study area.

Water Quality

To assess the physical and chemical properties of water in the region, ground water samples from five locations & surface water from two locations were collected from various water sources around the mine lease area. The pH of the ground water samples in the region varied from 7.21 to 7.88 & pH of the Surface water samples in the region varied from 7.40 to 7.55.

The results indicate groundwater is generally in conformity with the drinking water standards (IS: 10500) and surface water is in conformity with IS-2296 standards.

Soil Characteristics

The soil samples were collected in the month of October, 2023. Five soil samples were collected in and around the mine lease area to assess the present soil quality of the region. The pH of the soil indicates that the soil is slightly alkaline in nature. Based on the results, it is evident that the soils are not contaminated by any polluting sources.

Socioeconomic Scenario

As per the Census Records 2011, the total population of the district was recorded as 2093437 persons followed by 1061147 males (50.7%) and 1032290 females (49.3%) respectively. About 1355340 persons (64.7%) lived in rural part and 738097 persons (35.3%) lived in urban part of the district.

Biological Scenario

Buffer Zone:-

In buffer zone trees of Mahua, Mango and Ashok have been found on the edges of agricultural fields and along pathways.

ANTICIPATED ENVIRONMENTAL IMPACTS

Impact on air - Various mining activities i.e. loading, removal of overburden and movement of other transport vehicles used in mining will generate dust (SPM / RSPM). Proper water sprinkling shall be carried out at the mine site. The mineral will be transported by road through covered trucks/tippers to reduce the fugitive emission caused by the wind.

Impact on surface water bodies- The main drainage of the area is through seasonal water courses situated nearby lease area. There will be no change & no diversion will be required. There is no toxic element in and around the applied area or in OB or ore. Hence contamination of any nature is not expected for surface water source.

Impact on ground water table-

The water will be clear devoid of and toxic contamination. The total solids may be on higher side due to suspended as well as dissolved solids.

No dewatering is proposed in view of working proposed much above groundwater table and hilly terrain of the ML area.

Noise Impact

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 very low.

Impact on Land Environment

Opencast mining activities may alter the landscape of the lease area and also cause some disturbance to the surface features of the surrounding areas.

Impacts on Biodiversity- There are no endangered species, wildlife sanctuary, wildlife corridors, faunal migratory routes or eco-sensitive area within the study area.

Impacts on agriculture- Agriculture activities practiced in nearby areas may get impacted because of dust generation but mitigative measures such as regular water sprinkling on active areas for example haul roads, dump sites shall be strictly followed so that impact is minimized.

4.6 Socio economic environment

The impact of mining activity in the area is positive on the socio-economic environment of the region. Mine will be providing employment to local population employing only local people whenever there is requirement of man power.

5.0 POST PROJECT MONITORING PROGRAM

S. No.	Description	Frequency of Monitoring
1	Ambient Air Quality	Quarterly/Half yearly
2	Meteorological data	Daily
3	Noise Level Monitoring	Half yearly
4	Water Level & Quality	Quarterly/Half yearly
5	Soil Quality	Yearly
6	Monitoring of Agricultural crops	Yearly

6.0 ADDITIONAL STUDIES

The Additional Studies conducted are Risk Assessment & Disaster Management / Hazard Management & Occupational Health & Safety.

7.0 PROJECT BENEFITS

The project will prove beneficial to the people as the company has already agreed to provide infrastructural facilities to the villagers like Educational facilities, Medical facilities, Transportation facilities, water supply etc. which will improve the socio-economic environment of the area.

ENVIRONMENT MANAGEMENT PLAN

Air Management

Following measures will be taken to control air pollution during mining operations:

- Adequate water spraying on the haul roads.
- Construction of proper haul roads in the lease area.
- Development of Green belt/plantation within mining lease along haul roads, mine office to arrest dust.
- Water spraying shall be done before the mineral is loaded in dumpers/trucks.

Water Management

No wastewater generation is envisaged during the mining process. The sanitary waste generated from the mine office will be treated in the septic tanks via soak pits. The probable cause of surface water pollution in the proposed mining area will be soil erosion and wash off from the stacked mineral in monsoon period. Adequate control measures will be adopted to check not only the wash-off from soil erosion but also uncontrolled flow of mine water.

Noise Management

- All precaution will be taken to reduce generation of noise and noise level survey will be done at regular intervals.
- Ear protectors or earplugs will be given to persons working in higher noise level area or on machines.
- Regular measurement of noise level is proposed near drilling equipment and other heavy earth moving machinery & steps will be taken to improve the maintenance of all equipments so that the noise level will remain within permissible limits.
- Plantation of trees on internal roads and barriers.

Land Reclamation

During the plan period the total mined out land of the cluster will be 6.549 Ha out of total cluster area of 17.823 Ha. So, total land which will be degraded in the cluster area during plan period is 6.549 Ha. Since the individual quarries are at the development stage and the excavation of construction stone from the quarry areas have not been completely exhausted so proposal for reclamation of mined out land for the cluster would not be provided at this stage.

The pit will be wire fenced with gate and proper haulage road will be provided upto water logged limit.

Stage Wise Land Use Pattern

Land Use (During Plan period) (ha)						
Sl. No.	Type of land use	Balanda Stone Quarry - 7	Balanda Stone Quarry - 9	Balanda Stone Quarry - 14	Balanda Stone Quarry - 15	Balanda Stone Quarry - 16
1	Area of excavation	1.569	1.677	0.349	0.955	1.999
2	Temporary OB dump	0.007	0.007	0.007	0.007	0.007

3	Infrastructure	0.003	0.003	0.003	0.003	0.003
4	Roads	0.000	0.000	0.000	0.000	0.000
5	Plantation/ Safety Zone	0.637	0.710	0.573	0.412	0.582
6	Miscellaneous	1.830	2.479	1.900	0.646	1.455
	Total	4.046	4.876	2.832	2.023	4.046

Budget for Corporate Environmental Responsibility (CER)

**Budget for Corporate Environmental Responsibility (CER) (For Proposed Quarries)
(Balanda Stone Quarry-7)**

Sl. No.	Activity	Capital Cost (in Rs.)
1.	Drinking Water Facility in schools of Balanda & nearby village	5,01,960
2.	Financial aid for Medical Camp	10,00,000
3.	Distribution of educational kits & books in schools	10,00,000
4.	Sports Kits for children in schools	10,00,000
TOTAL		35,01,960

(Balanda Stone Quarry-9)

Sl. No.	Activity	Capital Cost (in Rs.)
1.	Drinking Water Facility in schools of Balanda & nearby village	5,00,000
2.	Financial aid for Medical Camp	3,00,000
3.	Distribution of educational kits & books in schools	2,01,080
TOTAL		10,01,080

(Balanda Stone Quarry-14)

Sl. No.	Activity	Capital Cost (in Rs.)
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1.	Drinking Water Facility in schools of Balanda & nearby village	5,00,000
2.	Financial aid for Medical Camp	5,00,000
3.	Distribution of educational kits & books in schools	3,00,000
4.	Sports Kits for children in schools	2,01,600
TOTAL		15,01,600

(Balanda Stone Quarry-15)

Sl. No.	Activity	Capital Cost (in Rs.)
1.	Drinking Water Facility in schools of Balanda & nearby village	3,00,000
2.	Financial aid for Medical Camp	5,00,000
3.	Distribution of educational kits & books in schools	2,51,060
TOTAL		10,51,060

(Balanda Stone Quarry-16)

Sl. No.	Activity	Capital Cost (in Rs.)
1.	Drinking Water Facility in schools of Balanda & nearby village	2,00,880
2.	Financial aid for Medical Camp	6,00,000
3.	Distribution of educational kits & books in schools	6,00,000
4.	Sports Kits for children in schools	6,00,000
TOTAL		20,00,880

BUDGET FOR CORPORATE ENVIRONMENTAL RESPONSIBILITY (CER) (FOR CLUSTER)

S. No.	Activity	Capital Cost (in Rs.)/annum
1.	Drinking Water Facility in schools of Balanda village	15,00,000
2.	Financial aid for Medical Camp	25,00,000
3.	Distribution of educational kits & books in schools	30,00,000

4.	For Sports Kits for children in schools	21,00,000
TOTAL		91,00,000

GREENBELT DEVELOPMENT PLAN

Greenbelt Details (for Proposed Quarries)

S. No.	Stone Quarry	No. of Plants
1	Balanda Stone Quarry - 7	764
2	Balanda Stone Quarry - 9	852
3	Balanda Stone Quarry - 14	687
4	Balanda Stone Quarry - 15	494
5	Balanda Stone Quarry - 16	698
Total		3495

Greenbelt Details (for Cluster Quarries)

S. No.	Stone Quarry	No. of Plants
1	Balanda Stone Quarry - 1	250
2	Balanda Stone Quarry - 2	775
3	Balanda Stone Quarry - 3	760
4	Balanda Stone Quarry - 7	764
5	Balanda Stone Quarry - 8	500
6	Balanda Stone Quarry - 9	852
7	Balanda Stone Quarry -10	1374
8	Balanda Stone Quarry - 14	687
9	Balanda Stone Quarry - 15	494
10	Balanda Stone Quarry - 16	698
Total		7154

Budget for environmental protection

Budget allotted for the Environmental Management Plan (for Proposed Quarries)

Balanda Stone Quarry-7

SI. No.	Measures	Capital Cost (In Rs.)	Recurring Cost (In Rs.)
1.	Pollution Control Dust Suppression	--	1,00,000
2.	Pollution Monitoring		50,000
	i) Air pollution	--	40,000
	ii) Water pollution		10,000
	iii) Soil Pollution		10,000
	iv) Noise Pollution		

4.	Green belt development	1,52,800	45,000
5.	Maintenance of approach road	1,50,000	45,000
Total		3,02,800	3,00,000

Balanda Stone Quarry- 9

SI. No.	Measures	Capital Cost (In Rs.)	Recurring Cost (In Rs.)
1.	Pollution Control Dust Suppression	--	1,00,000
2.	Pollution Monitoring i) Air pollution ii) Water pollution iii) Soil Pollution iv) Noise Pollution	--	50,000 40,000 10,000 10,000
4.	Green belt development	1,70,400	50,000
5.	Maintenance of approach road	1,50,000	45,000
Total		3,20,400	3,05,000

Balanda Stone Quarry- 14

SI. No.	Measures	Capital Cost (In Rs.)	Recurring Cost (In Rs.)
1.	Pollution Control Dust Suppression	--	1,00,000
2.	Pollution Monitoring i) Air pollution ii) Water pollution iii) Soil Pollution iv) Noise Pollution	--	50,000 40,000 10,000 10,000
4.	Green belt development	1,37,400	35,000
5.	Maintenance of approach road	1,50,000	37,500
Total		2,87,400	2,82,500

Balanda Stone Quarry- 15

SI. No.	Measures	Capital Cost (In Rs.)	Recurring Cost (In Rs.)
1.	Pollution Control	--	1,00,000

	Dust Suppression		
2.	Pollution Monitoring i) Air pollution ii) Water pollution iii) Soil Pollution iv) Noise Pollution	--	50,000 40,000 10,000 10,000
4.	Green belt development	1,30,000	30,000
5.	Maintenance of approach road	1,50,000	37,500
Total		2,80,000	2,77,500

Balanda Stone Quarry- 16

SI. No.	Measures	Capital Cost (In Rs.)	Recurring Cost (In Rs.)
1.	Pollution Control Dust Suppression	--	1,00,000
2.	Pollution Monitoring i) Air pollution ii) Water pollution iii) Soil Pollution iv) Noise Pollution	--	50,000 40,000 10,000 10,000
4.	Green belt development	1,39,600	40,000
5.	Maintenance of approach road	1,50,000	37,500
Total		2,89,600	2,87,500

BUDGET FOR ENVIRONMENTAL PROTECTION (FOR CLUSTER)

S. No.	Measures	Capital Cost (In Rs.)	Recurring Cost (In Rs.)
1.	Pollution Control & Dust Suppression	--	5,00,000
2.	Pollution Monitoring i) Air pollution ii) Water pollution iii) Soil Pollution iv) Noise Pollution	--	50,000 40,000 10,000 10,000
3.	Plantation	15,00,000	4,00,000
4.	Construction and maintenance of haul road	8,00,000	2,00,000
Total		23,00,000	12,10,000

CONCLUSION

Based on the EIA study it is observed that there will be an increase in the dust pollution, which will be controlled by sprinkling of water and plantation. There will be an insignificant impact on ambient environment and ecology due to the mining activities moreover the mining operation will lead to direct and indirect employment generation in the area. Green belt development around the area will also be taken up as an effective pollution mitigate technique, as well as to control the pollutants released from the premises of the Mine. Monitoring program will be followed till the mining operations continue. Hence, it can be summarized that the development of the mine will have a positive impact on the socio-economic of the area and lead to sustainable development of the region.

The region is economically backward mostly dependent on seasonal farming. The per capita income of villages is much below the national average. It will increase the profitability of the company and will have positive impact in the socio-economic status of the people in the region & will increase opportunities for employment

The study area is still lacking in education, health, housing, water, electricity etc. It is expected that same will improve to a great extent due to proposed mining project and associated industrial and business activities. Proposed activities and expenses on Corporate Social Responsibility will be as per CER Mandate of the Government.
