

EXECUTIVE SUMMARY
FOR OBTAINING ENVIRONMENTAL CLEARANCE

(Category-B1, under item 1(a), as per EIA Notification 14th September 2006 and its subsequent amendments till date)

FOR

“AMSYNDUI LIMESTONE MINE”

Location:-Amsyndui, Nongtalang, District West Jaintia Hills, State: Meghalaya

Production Capacity: - 1,60,200 TPA of ROM

(Limestone:-1,44,200TPA; Waste:-16,000TPA)

Area: - 4.50 Ha; LOI issued dated 27.03.2019

Lease Validity: 20 Years (From the date of Registration)

Report No.		GESPL_497/2024-25/DEIA/155
Details of ToR	:	Issued from SEIAA, Meghalaya vide letter no ML/SEIAA/MIN/WJH/P-250/2022/809 dated 25.06.2024
Environmental Monitoring laboratory engaged:	:	NOIDA TESTING LABORATORIES NABL Certificate Number & Validity TC-6814, Validity period: 03/12/2023-02/12/2025
Baseline study period	:	March 2022 to May 2022 (Summer Season)
Project cost	:	Rs.23.50Lacs
Project In-charge	:	Shri. Dominic Pohrmen
Work order no	:	Nil

PROMOTER

Shri. Dominic Pohrmen

Village-Nongtalang, District-West

Jaintia Hills, Meghalaya

Email:-

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NABET Accreditation: NABET/EIA/23-26/RA0338

Valid upto Dec 07, 2024

July 2024

Project:-Amsyndui Limestone Mine

Applicant:-Shri. Dominic Pohrmen

EXECUTIVE SUMMARY

INTRODUCTION

The proposed project “Amsyndui Limestone Mine” is situated at Amsyndui, Nongtalang District- West Jaintia Hills (Meghalaya). The total lease area of the project is 4.50 Ha. The mining activity will be carried out by open cast semi-mechanized method.

The Letter of Intent has been sanctioned in favour of Shri Dominic Pohrmen from the Office of Govt. of Meghalaya, Office of the Divisional Forest Officer (Territorial), Jaintia Hills Division Jowai vide letter no. JH/MMMCR-2016/2016-17/869/B/2641 Dated 27.03.2019, which was valid upto 26.09.2019. The proposed mine is spread over an area of 4.50 ha. with mineable reserves of about 22,65,000 Tonnes to produce 1,60,200 TPA of ROM (Limestone: - 1,44,200 TPA and Waste: - 16,000 TPA).

LOCATION OF LEASE AREA

The proposed project “Amsyndui Limestone Mine” is situated at Amsyndui, Nongtalang District- West Jaintia Hills (Meghalaya).

DETAIL OF MINING LEASE

S. No.	Particulars	Details
1.	Name of Project	Amsyndui Limestone Mine
2.	Location	Amsyndui, Nongtalang District-West Jaintia Hills (Meghalaya)
3.	Lease Area	4.50Ha.
4.	Land Type	Khatedari Land (Private)
5.	Latitude & Longitude	25°12’32.1”Nto25°11’38.8”Nand 92°5’09.7”Eto92°5’22.6”E
6.	Seismic Zone	Zone-V

PROJECT DESCRIPTION

The Letter of Intent has been sanctioned in favour of Shri Dominic Pohrmen from the Office of Govt. of Meghalaya, Office of the Divisional Forest Officer (Territorial), Jaintia Hills Division: Jowai vide letter no. JH/MMMCR-2016/2016-17/869/B/2641Dated



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27.03.2019, which was valid upto 26.09.2019. The proposed mine is spread over an area of 4.50 ha. with mineable reserves of about 322,65,000 Tonnes to produce 1,60,200 TPA of ROM (Limestone:- 1,44,200 TPA and Waste:- 16,000 TPA).

The proposed mining operations will be carried out by open cast semi-mechanized method.

GEOLOGY

LOCAL GEOLOGY

The limestone is exposed in the whole lease area. No other rocks exposed in the lease area. The lime stone has strike almost north- south and dip seems vertical in absence of workings. No fault, fold and geological disturbances are observed in the area. The succession of rocks in the lease area is as given below:-

Table 11.1: Local Geology

Geological Age	Group Name	Formation Name	Rock Type
Recent	Newer Alluvium	Unclassified	Sand, Silt and Clay
-----UNCONFIRMITY-----			
Eocene	Jaintia Group	Shella Formation	LimeStone

PHYSIOGRAPHY

The topography of the lease area is hilly terrain. Highest elevation is 789MSL and lowest is 711 MSL. The drainage of the lease area is southerly.

GEOLOGICAL AND MINEABLE RESERVES

Geological Reserve : 78,45,860 MT
Mineable Reserve : 22,65,000 MT
Production : 1,60,200 TPA of ROM
Life of Mine : 16 Years

MINING

The mining will be done by open cast semi-mechanized method of mining. The salient features of mode of working as per approved Mining Plan with PMCP are:-

- The mining will be carried out by open-cast semi-mechanized method.



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- The bench height will be kept 6m and width of the bench will not be less than the height of the bench.
- Total nine bench will be developed i.e. from Bench levels 780MSL (top bench), 774MSL, 768MSL, 762MSL, 756MSL, 750MSL, 744MSL, 738MSL and 732MSL (lowest bench).
- Blasting will be done by short or long holes with the permission of DGMS.
- The bench slope will be providing 85°.
- The loading will be from pits or from stocks.

PRODUCTION DETAILS

The year wise development of mines for five year will progress as per the table below:-

Table 1.2: Production Details

Year	ROM(T)	Waste/sub-grade(T)	Limestone Dimensional (T)
1 st Year	1,60,200	16,025	1,44,175
2 nd Year	1,60,200	16,000	1,44,200
3 rd Year	1,60,200	16,025	1,44,175
4 th Year	1,60,200	16,025	1,44,175
5 th Year	1,60,200	16,025	1,44,175
Total	8,01,000	80,100	7,20,900

LAND USE PATTERN

Land use plan of the mine lease area to encompass pre-operational, operational and post-operational phases is given below:-

Table 1.3: Land Use Pattern

Sl. No.	Land Use Category	Pre-Operational (Ha.)	Operational (Ha.)	Post-Operational (Ha.)
1	Top Soil Dump	00	0.02	00
2	Over burden Dump	00	0.15	0.15 (Reclaimed by Plantation)
3	Pit & Quarry Area	2.80	3.40	3.50
	Excavation (Voids Only)	00	00	1.40
	Reclamation (Backfilled)	00	00	2.10
4	Road	0.10	0.10	0.10
5	Infrastructure	00	0.01	0.01



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6	Afforestation	00	0.20	0.30
7	Mineral Storage	00	00	00
8	Sub-grade stack yard	00	00	00
9	Undisturbed Area	1.60	0.61	0.44
Total		4.50	4.50	4.50

DESCRIPTION OF THE ENVIRONMENT

For monitoring the environmental parameters like meteorology, air, water, soil and noise quality, the monitoring stations have been established at eight locations in the study area. The baseline data has been collected in the pre monsoon season (March 2022 to May 2022). The detail of the sampling locations is given in below:-

Table1.4: Sampling Location

Sampling Location	Distance(Km)	Direction	Components
Dominic(Mine Site)	--	--	Air,Water,Noise,Soil
Shri. Robert Dkhar(Mine Site)	2.0	N	Air,Water,Noise,Soil
Amjajer Roko	1.2	ENE	Air,Water,Noise,Soil
Smt Phul Bareh(Mine Site)	1.6	SW	Air,Water,Noise,Soil
Nongtalang Chnongthmai	1.7	SW	Air,Water,Noise,Soil
Sohkha	5.5	WSW	Air,Water,Noise,Soil
Khonglah	8.0	WNW	Air,Water,Noise,Soil
Amtapoh	3.0	N	Air,Water,Noise,Soil

LAND ENVIRONMENT

Soil Quality

Soil samples were collected at eight representative sampling locations. The soil analysis results are given below:-

pH	:	7.14-7.85
Total Organic Matter	:	0.36-0.51(%bypass)
Total Kjeldahl Nitrogen(TKN)	:	0.023-0.042%
Phosphorus as P	:	10.67-12.80(mg/kg)
Potassium as K	:	236.00-248.50(mg/kg)



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Water Environment

Eight ground water samples have been considered in the study area. The analysis results are presented below:-

Table1.6:WaterQuality Status



Project:-AmsynduiLimestoneMine

Applicant:-ShriDominicPohrmen

S. No.	Parameter	Requirement (Desirable Limits).	Permissible Limits in the Absence of Alternate Source.	Units	Dominic (Mine Site)	Shri Robert Dkhar (MineSite)	Amjajer Roko	SmtPhul Barch	Nongtalang Chnongthmai	Sohkha	Khonglah	Amtapoh
PhysiochemicalParameter												
1.	Colour	5	15	Hazen	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2.	Odour	Agreeable	Agreeable	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3.	Taste	Agreeable	-	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4.	Turbidity	1	5	NTU	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5.	pHvalue	6.5-8.5	-	-	7.26	7.58	7.42	7.50	7.37	7.21	7.89	6.94
6	TotalHardness (as CaCO3)	300	600	mg/l	162	174	163	152	154	162	148	160
7	Alkalinityas CaCO3	200	600	mg/l	180	182	196	175	166	175	160	172
8	Iron(asFe)	1.0	No Relaxation	mg/l	0.132	0.126	0.125	0.150	0.115	0.135	0.121	0.128
9	Chlorides(asCl)	250	1000	mg/l	15.0	18.0	14.0	15.5	16.0	14.0	16.6	18.0
10	Fluoride(asF)	1	1.5	mg/l	0.22	0.27	0.21	0.32	0.24	0.25	0.35	0.21
11	Conductivity	-	-	µmhos/cm	470	512	480	498	482	380	455	426
12	TDS	500	2000	mg/l	308	340	334	320	309	242	298	277
13	Calcium(asCa2+)	75	200	mg/l	51.0	56.6	54.2	55.0	58.0	60.0	57.5	58.0
14	Magnesium (as Mg2+)	30	100	mg/l	8.34	7.86	6.65	3.50	2.17	2.91	1.02	3.64
15	Copper (as Cu)	0.05	1.5	mg/l	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL(<0.01)	BDL (<0.01)	BDL(<0.01)	BDL (<0.01)
16	Manganese(as Mn)	0.1	0.3	mg/l	BDL (<0.05)	BDL (<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL (<0.05)	BDL(<0.05)	BDL(<0.05)
17	Sulphate(asSO4)	200	400	mg/l	28.0	26.5	23.2	26.0	21.0	24.0	20.6	25.8
18	Nitrate(asNO3)	45	No Relaxation	mg/l	2.12	2.50	1.60	2.45	2.60	3.81	2.55	2.02
19	Mercury(asHg)	0.001	No Relaxation	mg/l	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL(<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)
20	Cadmium(asCd)	0.01	No Relaxation	mg/l	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL(<0.01)	BDL (<0.01)	BDL(<0.01)	BDL (<0.01)



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21	Selenium(asSe)	0.01	No Relaxation	mg/l	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL(<0.01)	BDL (<0.01)	BDL(<0.01)	BDL (<0.01)
22	Arsenic(asAs)	0.01	No Relaxation	mg/l	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL(<0.01)	BDL (<0.01)	BDL(<0.01)	BDL (<0.01)
23	Cyanide(asCN)	0.05	No Relaxation	mg/l	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL(<0.01)	BDL (<0.01)	BDL(<0.01)	BDL (<0.01)
24	Lead(asPb)	0.05	No Relaxation	mg/l	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL(<0.01)	BDL (<0.01)	BDL(<0.01)	BDL (<0.01)
25	Zinc(as Zn)	5	15	mg/l	0.128	0.132	0.141	0.136	0.145	0.136	0.145	0.126
26	Anionic Detergent (as MBAS)	0.2	1	mg/l	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL(<0.10)	BDL (<0.10)	BDL(<0.10)	BDL (<0.10)
27	Chromium (as Cr6+)	0.05	No Relaxation	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL(<0.05)	BDL (<0.05)	BDL(<0.05)	BDL (<0.05)
28	Mineraloil	0.01	0.03	mg/l	BDL (<0.50)	BDL (<0.50)	BDL (<0.50)	BDL (<0.50)	BDL(<0.50)	BDL (<0.50)	BDL(<0.50)	BDL (<0.50)
29	Aluminium(as Al)	0.03	0.2	mg/l	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL(<0.01)	BDL (<0.01)	BDL(<0.01)	BDL (<0.01)
30	Boron(asB)	1	5	mg/l	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL(<0.10)	BDL (<0.10)	BDL(<0.10)	BDL (<0.10)
MicrobiologicalParameter												
1.	Escherichiacoli	Absent/100ml		Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
2.	ColiformBacteria	Absent/100ml		Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent



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AIRENVIRONMENT

To assess the baseline status of the air quality in the study area systematic ambient air quality monitoring has been carried out for criteria pollutants (PM₁₀, PM_{2.5}, NO_x and CO) at eight representative ambient air quality monitoring stations.

Air Quality

Ambient air quality monitoring has been carried out with a frequency of two days a week at eight locations covering one complete season i.e. March' 2022 to May' 2022. The summary of these results for all the locations is given below. These are compared with the standards prescribed by Central Pollution Control Board (CPCB) for rural and residential zone.

Table1.7:Ambient Air Quality Status

S.No.	Sampling Location		Parameters				
			PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
1.	Dominic (MineSite)	Min	37.21	25.96	6.69	8.44	0.3
		Max	56.78	36.58	8.95	13.45	0.59
		Avg.	45.01	29.51	7.51	9.93	0.43
		98th%ile	56.57	35.85	8.90	13.35	0.58
2.	Shri Robert Dkhar(Mine Site)	Min	42.61	27.44	7.26	10.52	0.29
		Max	55.47	36.22	11.24	16.25	0.71
		Avg.	48.92	29.89	9.11	13.12	0.48
		98th%ile	55.07	35.85	11.07	15.98	0.69
3.	AmjajerRoko	Min	34.52	20.12	7.54	9.68	0.3
		Max	55.48	32.26	10.88	14.66	0.77
		Avg.	44.15	25.22	8.89	11.33	0.48
		98th%ile	55.36	31.74	10.87	14.54	0.74
4.	Smt Phul Bareh(Mine Site)	Min	32.14	20.11	5.69	8.55	0.26
		Max	48.65	28.88	8.49	13.62	0.53
		Avg.	39.21	23.07	6.80	9.74	0.40
		98th%ile	48.54	27.72	8.47	13.59	0.52
5.	Nongtalang Chnongthmai	Min	32.52	20.68	5.35	9.24	0.35
		Max	47.32	29.53	9.47	14.63	0.8
		Avg.	37.43	24.45	7.23	10.98	0.53
		98th%ile	46.44	29.25	9.45	14.14	0.77
6.	Sohkha	Min	34.25	23.48	7.15	9.35	0.28
		Max	57.02	32.28	9.32	14.63	0.63
		Avg.	44.31	26.52	8.26	11.01	0.45
		98th%ile	56.91	32.23	9.18	14.47	0.63
7.	Khonglah	Min	30.52	18.44	5.35	8.26	0.38
		Max	45.62	26.65	7.85	12.98	0.82



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8.	Amtapoh	Avg.	35.28	20.49	6.18	9.60	0.56
		98th%ile	44.65	24.44	7.51	12.43	0.80
		Min	32.23	15.45	6.24	10.2	0.42
		Max	45.08	19.1	8.74	15.52	0.71
		Avg.	41.41	16.93	7.38	11.81	0.55
		98th%ile	45.03	18.88	8.70	14.83	0.71
NAAQSTANDARDS			100	60	80	80	2

NOISE ENVIRONMENT

The noise monitoring has been conducted for determination of noise levels at eight locations in the study area. The noise levels at each location were recorded for 24 hrs. The results obtained were compared with the national standards and were found to be within the standards. The collected data are:-

Table1.8: Ambient Noise Level Status

Location	Date of Sampling	Day Time (6.00AMto10.0PM)	Night Time (10.00PMto6.00AM)
Dominic (Mine Site)	01.03.2022	59.2	46.1
Shri Robert Dkhar(Mine Site)	03.03.2022	58.4	44.7
Amjajer Roko	05.03.2022	53.1	41.2
Smt Phul Bareh(Mine Site)	06.03.2022	57.6	45.0
Nongtalang Chnongthmai	08.03.2022	51.5	42.6
Sohkha	10.03.2022	54.6	40.2
Khonglah	12.03.2022	50.2	43.8
Amtapoh	14.03.2022	53.6	41.4
Standards			
Category of Area/Zone	Day Time		Night Time
Industrial Area	75		70
Commercial Area	65		55
Residential Area	55		45
Silence Zone	50		40



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SOCIO-ECONOMIC ENVIRONMENT

The study area includes the 53 Villages Amsyndui, Elaka Nongtalang District-West Jaintia Hills (Meghalaya) within 10 km of area from mine periphery.

Table1.9: Demography Profile of the Study Area

S. No.	Particulars	Details
1.	No. of Villages	53
2.	Total Population	26,606
	a. Male	13,221
	b. Female	13,385
3.	No. of House holds	4,798
4.	No. of Literates	16,350
	a. Male	8,054
	b. Female	8,296
5.	Main Workers	11,714
	a. Male	6,910
	b. Female	4,804
6.	Marginal Workers	4,220
	a. Male	1,982
	b. Female	2,238
7.	Non-workers	14,892
	a. Male	6,311
	b. Female	8,581

(Source:Census,2011)

BIOLOGICAL ENVIRONMENT

Core Zone	Buffer Zone
Flora	
Climber-6Specie	Climber- 19Specie
Herb- 7Species	Herb- 40Species
Shrubs-8Species	Shrubs-70Species
Tree-9Species	Tree-74Species
Fauna	
Amphibian-6Species	Amphibian-17Species
Fish- 4Species	Fish- 16Species
Avifauna - 31 Species	Avifauna-92Species
Butterflies-4Species	Butterflies-28Species
Mammals-2Species	Mammals-27Species



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RISKASSESSMENT & MANAGEMENT

Risk analysis is the systematic study of uncertainties and risks encountered in various areas. Risk analysts seek to identify the risks involved in mining operations, to understand how and when they arise, and estimate the impact (financial or otherwise) of adverse outcomes. It also defines and analyzes the dangers to individuals, businesses and government agencies posed by potential natural and human-caused adverse events.

However, there are various factors, which can create unsafe working conditions/ hazards in mining of Limestone (minor minerals). The following types of hazards are identified during the limestone mining operations:-

1. Accident during mineral loading, transportation and dumping
2. Accident due to vehicular movement
3. Inundation/Flooding

Following procedure will be followed for effective management of any disaster in the mine.

Step 1: Identification of Disaster risk.

Step2: Identification of persons at risk

Step 3: Removal of Hazard

Step4: Evaluation of the risk

Step5: Control measures to be taken

Step6: Maintain Assessment records

Step 7: Review

ENVIRONMENTAL MANAGEMENT PLAN

Impact	Mitigation Measures
Land Environment	
Land will be degraded due to mining and dumping of waste	➤ The total excavated area 3.50 ha., out of which 1.40 ha. will be used as a water reservoir and remaining 2.10 ha. area will be backfilled and reclaimed and rehabilitated by plantation. The extent of impact will however; be confined within lease area only.
Water Environment	
Discharge of effluents water From the mine.	There will be no discharge of effluent from the mine. Mine pit (1.40ha.) Will act as a water reservoir.



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Inter section of ground water table during mining operations. As per the approved Mining Plan along with PMCP, ultimate pit level (672 MSL) will be above the ground water table and hence it will not be intersected.

Air Environment

- Dust will be generated mainly during excavation, loading & unloading activities.
- Gaseous pollutants will be generated mostly by the traffic.
- It will be ensured that all the vehicles plying in the working zone are properly tuned and maintained to keep emissions within the permissible limits.
- At loading & unloading points and transportation routes, arrangement for water sprinkling will be made to minimize dust generation.
- In order to predict changes in the air quality, AERMOD version 8.8.0 model was used. The maximum incremental ground level concentrations of particulate matter PM₁₀, PM_{2.5}, NO_x & CO from the different mining activities for the study period (pre monsoon) were observed to be 6.1959µg/m³, 4.06606µg/m³, 0.142µg/m³ & 0.000223 (mg/m³) respectively.
- The resultant will remain within the National Ambient Air Quality Standards for industrial / residential areas.

Noise Environment

- Noise due to mining activities.
- Noise due to vehicular movement.
- The noise levels from all these sources are periodical and restricted to particular operation.
- The noise measurement data indicated that present noise levels in the study area is within the permissible limits of National Ambient Noise Quality Standards.
- Thus, due to natural attenuation effects by proper greenbelt/ maintenance of machines etc., the impact of noise levels will be minimal.

Socio-Economic Environment

- Employment generation
- Health impacts
- Education Facilities
- The mining activity puts negligible change in the socio economic profile.
- No displacement(0) is proposed due to proposed mine.
- Approx. 31 local workers will get employment opportunities along with periodical training to generate local skills.
- New patterns of indirect employment/income will generate.



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- Regular health Check up camp.
- Assistance to schools and scholarship to children will be provided.

Biological Environment

- | | |
|---|---|
| <ul style="list-style-type: none">➤ Impact on biodiversity➤ Impact on threatened species | <ul style="list-style-type: none">➤ The mining activity will have insignificant effect on the existing flora and fauna. The purpose of the project itself is to save the flora around the project area.➤ The existing vegetation within the mining area includes trees and shrubs vegetation. They will not be disturbed due to the mining activity. So, the impact on the vegetation is very less.➤ The transportation of waste may create dust pollution which may create loss of biodiversity of the area.➤ Dust in atmosphere, contributed by mining and associated activities, when deposited on the leaves of the plants in the surrounding areas may retard their growth.➤ The growth of vegetation in and around the complexes. Noise and vibrations due to blasting and operation of the machines drive away the wild animals and birds from the nearby nests.➤ The cluster area and its buffer zone are devoid of any eco sensitive area. So the impact on the biodiversity and wild life is minimal.➤ Green belt will be developed along the individual lease boundary which will act as a pollution barrier for the biological environment.➤ There is the proposal for plantation along the haul road of individual lease and also along the connecting road.➤ The blasting, drilling and transportation will be carried out during the day time only minimizing the impact on the wild fauna movement.➤ All the necessary pollution control measures will be under taken by The lessee to minimize the impact on the surrounding environment. |
|---|---|



Project:-Amsyndui Limestone Mine

Applicant:-Shri. Dominic Pohrmen

ENVIRONMENTAL ACTION PROGRAMME

The breakup of the proposed cost for Environment Management Programme is given as under:-

Table 1.10: Provision for Environmental Protection Measures

S. No.	Description	Capital Cost (Rs. In Lacs)	Recurring Cost (Rs. In Lacs)
1.	Environmental Monitoring (Air, Water, Noise and Soil)	--	2.00
2.	Occupational Health and Safety (Initial & Periodical Medical Check-ups)	1.00	0.50
3.	Green Belt (phase wise greenbelt development during plantation plan period)	11.0	1.15
4.	Construction & Maintenance of Settling Tank, Garland Drains etc.	1.00	0.50
5.	Provision of fencing around mine pit	0.75	0.20
6.	Environmental Awareness Program	--	0.75
7.	Rain Water Harvesting	0.50	0.25
8.	Socio EMP	0.47	--
Total		14.72	5.35

CONCLUSION

EIA study was performed as per the approved ToR. Various environmental attributes were studied relating with aspects of mining activities. The related impacts were identified and evaluated. Considering all the possible ways to mitigate the environmental concerns Environmental Management Plan was prepared and accordingly fund was allocated. The EMP has been dynamic, flexible and subject to periodic review.

The project will increase the revenue of the State Govt. as well as it will help in the social upliftment of the local people. The greenbelt development programme will help in increasing the green cover in the nearby areas. Thus, the existing project is not likely to affect the environment or adjacent ecosystem adversely. The Senior Management will be responsible for the project review of EMP and its implementation to ensure that the EMP remains effective and appropriate. Thus, the proper steps will be taken to accomplish all the goals mentioned in the EMP and the project will bring the positive impact in the study area.

