

EXECUTIVE SUMMARY

1.0 INTRODUCTION

The proposed project “Umduba Stone Quarry” is situated at Village – Umduba, Raid-Market, P.O- Killing, P.S.- Khanapara, District- Ri- Bhoi, State – Meghalaya. The total lease area of the project is 4.96 ha. The mining activity will be carried out by open cast semi- mechanized method.

The Mining Lease has been sanctioned in favour of M/S Uranus Stone Products & Co. from the Office of Govt. of Meghalaya, Divisional Forest Officer, East Khasi Hills & Ri Bhoi Territorial Division, Shillong. vide letter no. KH/8/USP and Co./154/9265, dt. 01.11.2017.

Table 1.0 Geographical co-ordinates of mining lease

S.No.	Name of Proponent	Pillar No.	Latitude N	Longitude E
1	M/S Uranus Stone Products & Co.	1	26° 4'16.59"N	91° 49' 35.66"
		2	26° 04' 16.56"	91° 49' 34.26"
		3	26° 04' 15.30"	91° 49' 29.25"
		4	26° 04' 13.62"	91° 49' 29.92"
		5	26° 04' 12.54"	91° 49' 31.33"
		6	26° 04' 10.49"	91° 49' 32.21"
		7	26° 04' 08.98"	91° 49' 33.38"
		8	26° 04' 08.49"	91° 49' 35.66"
		9	26° 04' 09.32"	91° 49' 37.13"
		10	26° 04' 11.51"	91° 49' 38.45"
		11	26° 04' 13.38"	91° 49' 39.47"
		12	26° 04' 12.92"	91° 49' 37.42"
		13	26° 04' 15.78"	91° 49' 36.85"

Umduba Stone Quarry Project
Village – Umduba, Raid-Market, P.O- Killing, P.S.- Khanapara,
District- Ri- Bhoi, State - Meghalaya
Mining Lease Area– 4.96 ha.,
Proponent : M/S Uranus Stone Products & Co

EXECUTIVE SUMMARY

Project identification

This is a mining project of Boulderstone in a private land, Village – Umduba, Raid-Market, P.O- Killing, P.S.- Khanapara, District- Ri- Bhoi, State – Meghalaya, cluster area 6.65 hectare. As per the MoEF &CC, New Delhi Gazette dated 14th September 2006 and further amendment, the mining project is categorized as category ‘B1’ project. The Mining Lease has been sanctioned in favour of M/S Uranus Stone Products & Co.

Identification of project proponent

M/S Uranus Stone Products & Co. is the project proponent for the Umduba Stone mine which is a partnership firm and Shi Ankit Mittal is the authorised signatory. The contact address of Project Proponent is given as under.

M/S Uranus Stone Products & Co

6 D Shivam Apartment, Vastav Complex, Jaynagae Charali, Tripura Road, Guwahati-781028 (Assam)
India

2.0 BRIEF DESCRIPTION OF THE PROJECT

Table 2.0 Brief Description of the Project

Project Name	Umduba Stone Quarry Project
Location of the Project	Village – Umduba, Raid-Market, P.O- Killing, P.S.- Khanapara, District- Ri- Bhoi, State – Meghalaya
Toposheet Number	78N/16
Type of Mining	Open cast Semi-Mechanized Mining
Seismic Zone	The area comes under Seismic Zone –V
No. of Working days	300
Production	150140 TPA

3.0 MITIGATION MEASURES

Air Pollution Control Measures

Following measures will be taken to control air/ fugitive pollution during mining operation:

- 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.

- The resultant particulate matter PM10, PM2.5, NOx & CO from the different mining activities will remain within the National Ambient Air Quality Standards for industrial/ residential areas.

Water Quality Management

- There will be no discharge of effluent from the mine. Mine pit will act as a water reservoir.
- As per the approved Mining Plan along with PMCP, ultimate pit level will be above the ground water table and hence it will not be intersected.

Noise Pollution Control

- 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 green belt/ maintenance of machines etc., the impact of noise levels will be minimal

4.0 RECLAMATION/RESTORATION WORKS

As no personnel are expected to be migrated due to mining in the lease area and the adjoining region is also having a good mineral potential, the rehabilitation of the employees is not going to be a problem. The workers and other staff can get job in the neighboring areas after the end of life of mine. The applicant shall also try for employment of the workers.

5.0 PLANTATION

Green belt development is the most effective pollution control measures. Trees play a vital role in keeping the ground level concentration in control within the project and its surrounding premises and also in preventing the horizontal dispersion of the pollutants to the surrounding areas. They are very effective in trapping the pollution causing agents viz. dust and gaseous pollutants. The green belt is being proposed for following objectives.

- Arresting of fugitive dust emission.
- Noise pollution control.
- Prevention of soil erosion.
- Balancing eco environment.
- Aesthetics.

6.0 SOCIO ECONOMIC ENVIRONMENT

Based on the findings of the socioeconomic study, CER proposal has been made by the PP and it is aimed at the socio-economic upliftment of the area. The provisions made are particularly in the area of habitat, health and education, training programme of rural women & men provide the kit for employment generation. The proposal also contains budgetary provision of toilets facilities for girls in nearby schools. The cost estimates for CER implementation is given as under.

TABLE : COST OF CER ACTIVITIES

S.No.	CER	Funds Allocation	
		M/s Uranus Stone Products & Co	Shri Phaisar Shilla
1.	Free distribution of books & uniform to student	70,000	30,000
2.	Medical camps free distribution of medicines	70,000	30,000
3.	Construction & development activities in school or village.	70,000	30,000
4.	Awareness programme for villagers	35,000	15,000
5.	Wash room for girls	35,000	15,000
6	For woman empowerment	70,000	30,000
Total		5,00,000	1,50,000

7.0 BUDGET ALLOCATION FOR EMP IMPLEMENTATION

S. No.		Capital cost (in Rs.)		Annual recurring cost (in Rs.)	
		M/s Uranus Stone Products & Co	Shri Phaisar Shilla	M/s Uranus Stone Products & Co	Shri Phaisar Shilla
1	Pollution Control	3,50,000	1,50,000	70,000	30,000
2	Pollution Monitoring	2,10,000	90,000	1,05,000	45,000
3	Occupational Health	1,05,000	45,000	52,500	22,500
4	Green Belt	1,40,000	60,000	70,000	30,000
5	Miscellaneous (Barbed Wire fencing, garland etc)	70,000	30,000	35,000	15,000
Total		8,75,000	3,75,000	3,32,500	1,42,500

8.0 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.

.