EXECUTIVE SUMMARY
(ENVIRONMENTAL IMPACTASSESSMENT)

MINING OF STONE ALONG WITH ASSOCIATED MINOR MINERAL,
AT
Kharsa No. 46min, Village: Usmapur, Tehsil: Mahendragarh District: Mahendragarh, State: Haryana

Study Period: 1st October to 31st December 20221
(Post Monsoon Season)
Production Capacity: 69,00,000MTPA
Mine Lease Area- 33.10Ha.
Schedule: 1 (a) Mining of minerals Cat-B1
(As per EIA Notification 2006 & its amendments)

APPLICANT
M/s. Astha Infra Developers Pvt. Ltd.
B-154, Kamla Nagar, Agra (UP)

Environment Consultant

Sathi Planners Pvt. Ltd.

(Accredited by QCI/NABET, GoI & ISO 9001:2015 Certified Co.)

Vide letter no. NABET/EIA/1821/IA0040

Validity of Accreditation till December 07, 2021

Lake Avenue, Kanke Road, Ranchi -834008

Email-info@sathiplanners.com

Contact No. 7061881201

PROJECT DESCRIPTION

- **M/s Astha Infra Developers Pvt. Ltd.** has proposed production of 6900000 TPA of Stone (minor mineral) over an area of 33.10 Ha. at Village: Usamanpur Tehsil & District– Mahendergarh (Haryana).
- As per EIA Notification dated 14th September, 2006 and its amendment till date this project falls under Category "B1",

STAGES OF ENVIRONMENTAL CLEARANCE	DATES
Lease area (LoI) granted Vide letter **DMG/HY/ML/Usmapur /2016/3520**	01.07.2016
Application Submission for EC in SEIAA, Haryana	07 .12.2021
Approval of Mining Plan and Progressive Mine Closure Plan of the proposed mine lease area vide letter No. **DMG/HY/MP/Usmanpur/2016/48**	02.01.2017
Technical Presentation in SEIAA, Haryana for grant of ToR.	25.12.2021
ToR Letter Issued vide F.No. **SEIAA(133)/HR/2021/09** by SEAC, Haryana	03.01.2022

MINE SITE DETAILS

- Village : Usmanpur
- Tehsil & District : Mahendergarh
- Topo-sheet (OSM) No. : 53D/3
- Latitude and Longitude :

Pillar. No	Latitudes	Longitudes
A	N 28° 19' 35.045''	E76° 03' 3.891''
B	N 28° 19' 33.52''	E76° 03' 12.208''
C	N 28° 19' 30.825''	E76° 03' 20.402''
D	N 28° 19' 13.882''	E76° 03' 17.165''
E	N 28° 19' 0.441''	E76° 03' 14'.965'
F	N 28° 19' 5.948''	E76° 03' 2.904''
G	N 28° 18' 23.884''	E76° 03' 4.302''

- **Type of Land** : Govt. waste Land
- **Project Cost** : Rs. 10.00 Crores
- **Cost of EMP** : Rs. 30.00 Lakhs Capital and 18 Lkahs recurring
- **Cost of OH&S** : Rs. 6.00 Lakhs
- **Nearest Highway** : SH -24 at ~1.5 KM km in SW, SH-148 B ~7.5 km in NE
- **Nearest Railway station** : Zarpur, Railway Station approx. 4.86 km in East direction.
- **Nearest Village** : Usmanpur – 1.25 km
- **Nearest Airport** : Indira Gandhi International Airport-New Delhi, approx. 155Km

- **Wildlife Sanctuary/NP** : No Ecological Sensitive Area, National Park, Wildlife Sanctuary, Biosphere reserve is present in the 10 Km radius of the study area.

Need and Benefits of Project: The Mineral is generally used for building of infrastructure such as housing, roads and other construction work. The construction is not possible without the use of Stone. Therefore its use for infrastructure development is very significant. Generate various employment opportunities especially to the local people hosting the mining project.

MINING

- Mineral Reserves : 10,70,84,940 MT
- Production Capacity : 69,00,000 MTPA
- Duration of Mining : 10 Years
- Working Days : 300 days/year
- Per Day production : 23,000 TPD

The machinery to be deployed is listed below:

S. No.	Equipment	Size	Nos
1	Hydraulic Excavator for Loading of mineral	3.2cu.m	8
2	Rock breaker (Hydraulic Excavator) as substitute to secondary blasting	1.6 cum	2
3	Rear dumpers for transportation of mineral from mine to destination	25T	80
4	Drill Machine with compressor of 365 cfm capacity.	100-110mm	4
5	Track chain Dozer	350 HP	1
6	Pay loader (General Purpose, loading etc.)	145 HP	1
7	Crane	40T	1
8	Tyre handler	-	1
9	Water sprinkler	10 KL	1
10	Mobile Maintenance van		1
11	Tractor	50hp	1
12	Tractor mounted compressor		1

DESCRIPTION OF ENVIRONMENT

- Duration of study : 1st October to 31st December 20221
- Average Annual Rainfall : 420 mm
- Temperature : Maximum 42°C or above Minimum 9°C
- Average Relative Humidity : 64%
- Wind Direction : W to E

ECONOMIC PROVISION FOR ENVIRONMENTAL MANAGEMENT

The capital cost for environmental management of the proposed project is estimated to be Rs.30.0 lakhs And Rs.18 lakhs per year will be required as annual recurring expenses to meet the recurring

expenditure for implementing the measures. The break-up of the investment is shown in **Table below-**

S. No	Activity	Capital Cost (Lakh)	Recurring expenses proposed/ annum (Lakh)
1	Dust Suppression	2.0	1.0
2	Green Belt development	7.0	2.0
3	Haul road and other roads construction and Maintenance	3.0	2.0
4	Waste water treatment and solid waste treatment	3.0	1.0
5	Environmental Monitoring – Air, Water, Noise and Soil environmental Monitoring	--	10.0
6	RWH	5.0	2
7	CER	10.0	---
Total		**30.0**	**18.0**

BASELINE STUDY:

Parameters	Baseline Status
Ambient Air Quality (1st October 2015 to 31st December 2015)	PM_{10} – **78.20 µg/m³ and 85.88µg/m³** $PM_{2.5}$ – **38.69 µg/m³ and 44.88 µg/m³** SO_2 – **9.64 µg/m³ and 13.18 µg/m³** NO_2 – **19.38 µg/m³ and 24.07 µg/m³**
Noise Level	Noise Level During Day Time – **51.18 and 73.81dB** Noise Level During Night Time – **40.89 to 53.83 dB**
Water Quality	**Ground Water**: All the parameters like TDS (**497 to 4950 mg/L**), pH (**6.97 to 7.41**), Total Hardness (**460 - 1440 mg/L**) etc. are found within the permissible limits.
Soil Quality	pH – **7.46 to 8.06**, Texture – **Silty/Sandy Loam.** Organic Matter – **0.52 % - 0.87 %.**
Ecology And Biodiversity	There is no wildlife sanctuary/biosphere reserve/national parks present within 10 Km radius of the study area.
Socio Economic	The proposed case will provide positive impact to the nearby area. The project will provide direct employment to the 255 persons which will be hired through the nearby villages.

Water Requirement: The water required for the project is **31.0 KLD**.through hired Tankers.

Man Power Requirement: About **255** persons will be required for the project.

ENVIRONMENTAL MANAGEMENT PLAN

Overburden: Nil

Remedial Measures for Noise Control

- No other equipments accept the transportation vehicles and excavator and loaders (as and when required) for loading is allowed.

- Plantation will be taken up along the approach roads. The plantation minimizes propagation of noise.

Remedial Measures for Air Pollution Control

- Proper mitigation measures like water sprinkling on haul roads will be adopted to control fugitive dust emission.
- To control the emissions regular preventive maintenances of equipments will be done to adopt corrective actions wherever needed.

Remedial Measures for Ground Water Protection

- Mining in the area will be done well above the water table. Therefore, impact on water regime is not anticipated.
- **Development of Green Belt:** Total 500 Nos. of trees per year of native species along with some fruit bearing and medicinal trees during the plan period.

CONCLUSION

The project will also provide impetus to industrialization of the area and mining would be boon for the district as it will not only result in employment opportunity but also infrastructure development and overall growth of the area.