



**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY,  
BIHAR**

Ref No. **87/SEIAA/17.**

Patna, dated:- **27/06/17.**

From,

**Prof. R. C. Sinha**  
Chairman,  
SEIAA, Bihar

To,

**M/s Mahadev Enclave Pvt. Ltd.,  
Shri Kartik Rathi, (Director)  
S/o Shri Ajay Rathi  
R/o – B - 37,  
Ayodha Marg,  
Hanuman Nagar,  
Jaipur,  
(Rajasthan)  
Pin – 302 001.**

**Sub: Environmental Clearance for the proponent “Rajauli (Block No.- 02) Ordinary Stone Mine Project (Block No.:- 02), Area - 05 Ha, Thana No.:- 184, Khata No.:- 1603, Plot no.:- 5513, Mauza:- Rajauli, Tehsil – Nawada, District- Nawada, State- Bihar.”**

**Sir,**

With the reference to your application dated 01-07-2015 for environmental clearance, your application was appraised by SEAC in its meeting held on 24<sup>th</sup> March, 2017 as per EIA Notification, 2006 and its amendment thereof. On the recommendation of SEAC, SEIAA in its meeting held on 24<sup>th</sup> May, 2017 accords Environmental Clearance with the following conditions. The salient features are as follows:-

1. Rajauli (Block No.- 02) Stone Mine Project (Block No.:- 02), Area - 5 Ha, Thana No.:- 184, Khata No.:- 1603, Plot no.:- 5513, Mauza:- Rajauli, Tehsil – Nawada, District- Nawada, State- Bihar.

2. Geographical location -
- |            |                  |                  |
|------------|------------------|------------------|
| Corner A - | 24° 39' 10.70" N | 85° 31' 07.20" E |
| Corner B - | 24° 39' 06.80" N | 85° 31' 11.60" E |
| Corner C - | 24° 39' 06.70" N | 85° 31' 22.80" E |
| Corner D - | 24° 39' 11.50" N | 85° 31' 22.50" E |

3. Project Cost- ₹ 11,50,00,000/-

4. Life of Mine- 5 years.

5. Geological Reserve –
- |                                  |                   |
|----------------------------------|-------------------|
| (a.) Proved Reserve –            | 58,18,520 Tonnes  |
| (b.) Feasibility Resource -      | 82,91,094 Tonnes  |
| (c.) Pre- Feasibility Resources- | 40,36,950 Tonnes. |

6. Mineable Reserve – 36,37,144 Tonnes.

7. Proposed capacity of mine- 7,27,160 TPA

8. No. of working days- 300 days

9. Man Power requirement- 55

10. Water requirement- 3.5 KLD (1.5 KLD for Domestic Uses, 1.5 KLD for Plantation and 0.5 KLD for Dust Suppression)

#### A. Specific Conditions

1. Prior to stone mining, the proponent shall get the vibration studies of blasting (Zone of influence) done by a recognized Institute e.g. Indian Institute of Mines (ISM), Dhanbad, and submit report to SEIAA office before mining operation. If mining activities is carried out without the vibration studies, the Environmental Clearance shall be deemed to be revoked automatically.
2. Rehabilitation of villages, if any & Wall carried out.
3. The project proponent shall adopt best mining practice. In the mining area, adequate numbers of check dams, retaining walls, garland drains and setting ponds should be provided to arrest the wash-off with rain water in catchment area.
4. The natural water bodies and streams which are flowing in and around the village should not be disturbed. The water table should be natured so as not to go down below the pre-mining period. Regular monitoring of water table in the open dug well located in the villages should be done to ascertain the impact mining over the ground water table.
5. The Proponent must ensure that villagers nearby get good sleep at night (noise levels should be within prescribed limit).
6. The Project proponent should not disturb the grazing ground for cattle.

7. Main Haulage road in the mine should be provided with permanent water sprinklers as well as other roads be wetted with water tankers fitted with sprinklers.
8. The Project proponent shall ensure that the productivity of the agricultural crops is not affected due to mining operations.
9. Transportation of the minerals by road passing through the village shall be allowed rather by pass road should be constructed. The proponent shall bear the cost towards widening and strengthening the existing public road network in case the same is used for the project.
10. The project Proponent directed to deposit 10% of the CSR cost (2.5% of the total project cost) as security in the form of fixed deposit, in a nationalized bank, pledged in the name of SEIAA, Bihar and details along with time schedule for implementation shall be prepared and submitted to the SEIAA, Bihar.
11. The environmental clearance is subject to grant of mining lease by the Department of Mines, Government of Bihar to PP and all other Statutory Conditions as imposed by various agencies / District Authorities are complied with.
12. No mining shall be undertaken in the forest area without obtaining requisite prior forestry clearance. Minimum distance shall be maintained from Reserved / Protected Forest as stipulated in MoEF&CC Guidelines.
13. Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project (in case any fauna occurs / is found in the Project area). No damage is to be done to fauna if found in Mining Lease (ML) area (as mentioned in various schedules). In case found they should be given protection, collected alive with the help of the expert and transferred them or handling over them to the concerned authorities. Conservation Plan, if applicable has to be adhered to.
14. The top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.
15. There shall be no external dump(s). Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the SEIAA, Bihar Patna/ BSPCB, Patna its nearest Regional Office on six monthly basis.
16. Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, sub-grade and mineral dump(s) to prevent run off of water and flow of sediments directly into the agricultural fields, and other water bodies. The water so collected should be utilized for watering the mine area, haul roads, green belt development etc. The drains shall be regularly desilted particularly after the monsoon and maintained properly.
17. Dimension of the retaining wall at the toe of the OB benches within the mine to check run-off and siltation shall be based on the rain fall data.
18. Greenbelt shall be developed all along the mine lease area. The Project proponent shall do tree plantation in at least 33% of the space, preferably along the periphery and in vacant space. Fast growing and local species will be planted. Plantation should be completed within 3 Years.
19. Toilet for BPL family must be provided and facilities of drinking water for villagers for its established of a tank for drinking water.
20. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and

unloading point and transfer points. Extensive water sprinkling shall be carried out on haul roads which should be made pucca with suitable water drainage arrangements. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.

21. The project proponent should implement suitable conservation measures to augment ground water resources in the area in consultation with the Ground Water Directorate, Government of Bihar / Central Ground Water Board.
22. Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded. No transportation of ore outside the mine lease area shall be carried out after the sunset.
23. No blasting shall be carried out after the sunset. Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.
24. Drills shall either be operated with the dust extractors or equipped with water injection system.
25. Effective safeguard measures should be taken to control fugitive emissions so as to ensure that RSPM (PM10 and PM 2.5) levels are within prescribed limits.
26. Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
27. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
28. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, septic tanks, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
29. Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.
30. The phase-wise reclamation & afforestation shall be started simultaneously in the production year.
31. The project proponent shall obtain NOC and Consent to establish/Consent to Operate from the Bihar State Pollution Control Board, Patna and effectively implement all the conditions stipulated therein.

## **B. General conditions**

1. No change in mining technology and scope of working should be made without prior approval of the Statutory authorities / Department of Mines, Government of Bihar, SEIAA, Bihar, Bihar State Pollution Control Board, Patna during the EC period.
2. No change in the calendar plan including excavation, quantum of mineral and waste should be made.
3. The Project proponent shall make all internal roads pucca and shall maintain a good housekeeping by regular cleaning and wetting of the haul roads and the premises.

4. The Project proponent shall maintain register for production and dispatch and submit return to the Board.
5. The Project proponent shall not cut trees / carry out tree felling in leased out area without the permission of competent authority.
6. Measures should be taken for control of noise levels below prescribed norms in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.
7. Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards Oil and grease trap should be installed before discharge of workshop effluents.
8. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
9. Dispensary facilities for First Aid shall be provided at site.
10. A separate environmental management / monitoring cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
11. The SEIAA, Bihar directly shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
12. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the SEIAA, Bihar.
13. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
14. All statutory clearances shall be obtained before start of mining operations.

**C. Other points**

1. The responsibility for implementation of environmental safeguards rest fully with the project proponent.
2. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority if that be so, legal action as per the provision of Environment (protection) Act, 1986.
3. The Environmental Clearance accorded shall be valid for the period of grant of lease for the mine (generally 5 years). The PP shall not increase production rate and alter lease area during the validity of Environmental Clearance.

4. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Bihar for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.
5. The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Bihar and any other Court of Law relating to the subject matter.
6. Any Appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Sd/-  
**(Prof. R.C. SINHA)**  
**Chairman**  
**SEIAA, BIHAR**

  
**Chairman**  
**SEIAA, Bihar**

**Memo No:**

**Patna, dated:-**

Copy forwarded to:

1. The Principal Secretary, Environment & Forests, Deptt. Govt. of Bihar, Sinchai Bhawan, Patna.
2. The Principal Secretary, Mines and Geology, Govt. of Bihar,
3. The Chairman, Bihar State Pollution Control Board, Patna-23 (By E-mail)
4. The Chairman, SEAC, Bihar (By E-mail)
5. The Chairman, Central Pollution Control Board,. Delhi (By E-mail)
6. The Advisor, (EIA), Indira Paryavaran Bhawan, JorBagh Road, Aliganj, New Delhi-110003 (By E-mail)
7. Guard file.

*R. C. Sinha*

**(Prof. R.C. SINHA)**

**Chairman,  
SEIAA, BIHAR**