

# State Level Environment Impact Assessment Authority, Rajasthan

4, Institutional Area, Jhalana Doongri, Jaipur-302004

Phone: 0141-2705633, 2711329 Ext. 361

No: F1 (4)/SEIAA/SEAC-Raj/Sectt/Project /Cat 1 (a)B1/(192)/ 08-09

Jaipur, Dated: 29-12-09

To,

**Sh. Moti Lal Chouhan**

S/o Sh. Manga Ram Chouhan,

R/o Ist Floor, Jodhpur,

D.N. Compound, Paota,

Jodhpur

**Sub: EC for Limestone Mining (ML No. 15/88) at village Ghorawat Bhopalgarh, Jodhpur by Sh. Moti Lal Chouhan S/o Sh. Manga Ram Chouhan, R/o Ist Floor, Jodhpur, D.N. Compound, Paota, Jodhpur**

Sir,

This has reference to your application dated 10-09-07 to Government of India seeking environmental clearances for the above project under EIA Notification 2006. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification 2006 on the basis of the mandatory documents enclosed with the application viz. the questionnaire, EIA, EMP and additional clarifications furnished in response to the observation of the State Level Expert Committee Rajasthan, in its meetings held on 27/28.08.09 & 29.10.09.

## 2. Brief details of the Project:

1. Item No. in the list of Schedule/Category: : B-1, 1(a)
2. Location of Mine : Village Ghorawat, Bhopalgarh, Jodhpur.
3. Total Area : 09.00 ha.
4. Mining Lease No. : 15/88
5. Product & Capacity : Enhancement of production of Limestone (minor mineral from 91,000 TPA to 3,00,000 TPA)
6. Expected Cost : Rs. 02.00 Lakhs.
7. Water Requirement & Source : 3-4 KLD Source: Ground water: 0.5 KLD; Mine Water (Sump/Pit) 2.5 to 3.5 KLD.
8. Method of Mining : Opencast Manual involving drilling and blasting
9. Environmental Management Plan : Amount earmarked / proposed in socio-economic welfare measures for nearby villages: Rs. 50,000 per year.  
Capital cost for EMP:
  - ✓ Existing: Rs. 1, 20,000.
  - ✓ Proposed: Rs.3, 35,000.

### **Environmental Management Program:**

To mitigate probable negative impact the mining activity has to be carried out in a time bound manner. The following Environmental Management Program has been prepared:

### **Land Up-gradation:**

Following measures will be adopted for land up gradation

Out of the excavated area some area will be backfilled with solid waste and remaining will be converted into water reservoir. The details are as follows:

Motilal Chauhan (Mining Lease No. 15/88)	Area / Hectare
Excavated Area	7.55 ha.
Backfilled Area	3.22 ha.
Area converted into Water Reservoir	4.33 ha.

(ii) The plantation will be carried out and the details are as follows:

Motilal Chauhan (Mining Lease No. 15/88)
2.00 ha.

10.

Any open excavated pit will not remain after mine closure.

***Air Quality Management:***

Following measures will be adopted for the same:

- Control Blasting Process
- Water sprinkling
- Plantation
- Dust mask will be provided to workers

***Noise Level Management:***

Following measures will be adopted for the same:

- Proper maintenance of machineries
- Periodic noise monitoring
- Use of noise abatement equipments

***Management of Ground Vibration:***

Drilling, and blasting processes will be carried out in a systematic manner. Indication will be given before starting of blasting.

***Water Quality Management:***

There will not be any impact on water quality thus; precautionary measures will not be required.

3. The SEAC Rajasthan after due considerations of the relevant documents submitted by the project proponent and additional clarifications/documents furnished to it have recommended for Environmental Clearance with certain stipulations. The SEIAA Rajasthan after considering the proposal and recommendations of the SEAC Rajasthan hereby accord Environmental Clearance to the project as per the provisions of Environmental Impact Assessment Notification 2006 and its subsequent amendments, subject to strict compliance of the terms and conditions as follows:

**A      SPECIFIC CONDITIONS**

- i. All the conditions stipulated by the State Pollution Control Board in its NOC should be effectively implemented.
- ii. As stated by the PP, the water requirement for the project shall be limited to 4.00 KLD.
- iii. This Environment Clearance is for enhancement of Limestone production from 29,887 TPA to 1,00,000 TPA.
- iv. As committed, the PP shall invest at least Rs. 1,50,000 towards socio-economic development including addressing public hearing issues.
- v. The PP shall ensure the implementation of the eco friendly Mining Plan, which has been approved by the Mining Engineer, Jodhpur vide letter no. ME/JO/CC-II/ML/15/88/1889 dated 26.05.2009.
- vi. The PP shall undertake to ensure minimum losses to the crops and undertake to contribute suitably for compensation to the loss/damage to crop crops within 10 (ten) kilometers (the mandatory study area).
- vii. The mining operations shall be restricted to above ground water table and it should not intersect groundwater table. In case of working below ground water table prior approval of the ministry of Environment & Forest and Central Ground Water Authority shall be obtained for which a detailed hydro-geological study shall be carried out.
- viii. Topsoil shall be stacked temporarily at earmarked sites only and it should not be kept unutilized for a period more than three years. The topsoil should be used for land reclamation and rehabilitation of mined out areas.
- ix. The project proponent shall ensure that no natural watercourse / water body shall be obstructed due to any mining operations.
- x. The over burden generated shall be stacked at earmarked dump site (s) only and it should not be kept active for long period of time. The maximum height of the already existing waste dumps shall not exceed 5.0 m and it will be protected by walls of rubble stones on the down streamside to prevent the flow of fine particles.
- xi. The overall slope of mine shall not exceed 60 degree.
- xii. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the RPCB and MoEF, Regional Office, Lucknow on six monthly basis.
- xiii. The void left unfilled in the abandoned mine area shall be converted into water body. The higher benches of excavated void/mining pit shall be terraced and plantation done to stabilize the slopes. The slope of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be carried out along the excavated area.
- xiv. Catch drains and siltation ponds of appropriate size shall be constructed for the working pit, OB dumps and mineral dumps to arrest flow of slit and sediment. The water so collected should be utilized for



watering the mine area, roads, green belt development etc. The drains should be regularly de-silted, particularly after monsoon, and maintained properly.

Garland drains, setting tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and over burden dumps and sump capacity should be designed keeping 50 % safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate pits should be constructed at the corners of the garland drains and de-silted.


- xv. Dimension of the retaining wall at the toe of dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data.
- xvi. As envisaged, the plantation shall be raised in a total area of 4.27 ha as given in the EMP including green belt around the lease area and along haul roads, OB dumps, backfilled and reclaimed area, around water body, roads etc by planting the native species in consultation with the local DFO/Agriculture Department. The PP shall ensure that, the number of surviving trees is 1000 trees/ per ha.
- xvii. Regular water sprinkling should be carried out in critical areas prone to are pollution and having high levels of SPM and RPM such as haul road, loading and unloading point and transfer points. It should be ensured that the Ambient Air Quality Parameters conform to the norms prescribed by the Central Pollution Control Board in the regard.
- xviii. The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.
- xix. Regular monitoring of ground water level and quality should be carried out in and around the mine lease The monitoring should be carried out for times in a year - pre monsoon (April- May), monsoon (August), post monsoon (November) and winter (January) and the data thus collected may be sent regularly RPCB and MoEF, Regional Office, Lucknow, Central Ground Water Authority and Regional Director Central Ground Water Board.
- xx. Permission from the competent authority should be obtained for drawl of ground water, if any, required for the project.
- xxi. Vehicular emissions should 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 vehicles should be covered with a tarpaulin and shall not be overloaded.
- xxii. Blasting operation should be carried out only during the daytime controlled blasting should be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.
- xxiii. Drills shall either be operated with dust extractors or equipped with water injections system.
- xxiv. Consent to operate should be obtained from RPCB starting enhanced production from the mine.
- xxv. The project proponent should take all precautionary measures during mining operations for conservation and protection of endangered fauna, if any, spotted in the study area. A plan for conservation will be drawn and approved by the State Wildlife Department. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. All the safeguard measures brought out in the wildlife conservation pan so prepared specific to the project site shall be effectively implemented. A copy of action plan may be submitted to the RPCB and MoEF, Regional Office, Lucknow within 3 months.
- xxvi. A final mine closure plan along with details of corpus fund should be submitted to the Ministry of Environment & Forest 5 years in advance of final mine closure for approval.
- xxvii. Any mining will not be carried out below ground water table.

#### General Conditions (For Mining Projects):

- i. Any change in mining technology/scope of working shouldn't be made without prior approval of the SEIAA.
- ii. Any change in the calendar plan including excavation, quantum of mineral and waste shouldn't be made.
- iii. Periodic monitoring of ambient air quality should be carried out for RPM, SPM, SO<sub>2</sub> and NO<sub>x</sub> monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be decided in consultation with the Rajasthan State pollution Control Board (RPCB). Six monthly reports of the data so collected should be regularly submitted to the RPCB/CPCB including the MoEF, Regional office, Lucknow.
- iv. Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM etc. should be provided with earplugs/muffs.
- v. Industrial waste water (workshop and waste water from the mine) should be properly collected & treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May'93 and 31st December 1993 (amended to date). Oil and grease trap should be installed before discharge.
- vi. Personnel working in dusty areas should wear protective respiratory devices they should also be provided with adequate training and information on safety and health aspects.

- i. 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.
- vii. The project authorities should inform the RPCB and the Regional office of MoEF located at Lucknow as well as to the SEIAA regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- viii. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the RPCB and the Regional office of MoEF located at Lucknow.
- ix. The RPCB and MoEF, Regional Office, Lucknow shall monitor compliance of the stipulated conditions. The project authorities should provide a set of a filled in questionnaire and EIA/EMP report to them and extend full cooperation to the above office(s) by furnishing the requisite data/information/monitoring reports.
- x. The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the RPCB, CPCB and MoEF, Regional Office, Lucknow.
- xi. A copy of the clearance letter will be marked to the concerned panchayat/local NGO, if any, from whom suggestions/representations were received while processing the proposal.
- xii. The RPCB should display a copy of the clearance letter at the Regional Office, District Industry Center and Collector/Tehsildar's office for 30 days.
- xiii. The SEIAA or any other competent authority may alter/modify the above conditions or stipulate any further conditions in the interest of environment protection.
- xiv. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xv. The above conditions will be enforced, *inter alia*, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974 the Air (Prevention & Control of Pollution) Act 1981, the Environment (Protection) Act 1986 and the Public Liability Insurance Act 1991(all amended till date) and rules made hereunder and also any other orders passed by the Hon'ble Supreme Court of India/High Court of Rajasthan and any other Court of law relating to the Subject Matter.
- xvi. Any appeal against this Environmental Clearance shall lie with the National Environmental Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environmental Appellate Act, 1997.
- xvii. The Project authorities should advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the RPCB and it's web site, besides, a copy of the same should be forwarded to the Regional Office of MoEF located at Lucknow.

Yours faithfully,

  
(Sankatha Prasad)  
Member Secretary  
SEIAA Rajasthan

**Copy to following for information and necessary action:**

1. Secretary, Ministry of Environment and Forest, Govt. of India, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi.
2. Principal Secretary, Environment Department, Rajasthan, Jaipur.
3. Shri S.C. Derashri, Chairman, SEIAA Rajasthan, 90, Geejgarh Vihar, Hawa Sarak, Jaipur.
4. Shri R.S. Bhandari, Member, SEIAA Rajasthan, 2- Museum Road, Ram Niwas Bagh, Jaipur.
5. Member Secretary, Rajasthan State Pollution Control Board, Jaipur.
- ✓ 6. Member Secretary, SEAC Rajasthan.
7. The CCF, Regional Office, Ministry of Environment & Forests, RO(CZ), Kendriya Bhawan, 5<sup>th</sup> Floor, Sector 'H', Aliganj, Lucknow-226 020.
8. IA- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.

  
M.S. SEIAA (Rajasthan)