

State Level Environment Impact Assessment Authority, Rajasthan

4, Institutional Area, Jhalana Doongri, Jaipur-302004

Phone: 0141-2705633, 2711329 Ext. 361

No: FI(4)/SEIAA/SEAC-Raj/Sectt/Project/Cat.1(a)B1.(153)/09-10

Jaipur, Dated:

23 JUN 2010

To,

M/s Modi Flooring Stone Co.,
R/o Morak Station,
Tehsil-Ramganjmandi,
Kota

Sub: EC for proposed "Aroliya Limestone (Building stone Mine" (ML No.53/96; area-5.00 ha)
near Village-Aroliya, Tehsil-Pachpahar, Distt-Jhalawar.

Sir,

This has reference to your application dated 07.05.08 to Government of India & dated 05.04.10 to SEAC, Rajasthan, 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 meeting held on 28/29.4.10.

2. Brief details of the Project:

1. Item No. in the list of Schedule/Category: 1(a), B-1
2. Location of Mine Near village- Aroliya, Tehsil-Pachpahar, District-Jhalawar.
3. Total Area (a) 5.00 ha.
(b) Additionally, the PP has acquired an area of 2.5324 ha outside the mining lease at a distance of about 50 meters for OB dump.
4. Mining Lease No. M.L.No. 53/96
5. Product & Capacity Limestone (Building stone)
Enhancement of production capacity from 11, 510 MT/year to 55,172 MT/year.
6. Expected Cost Rs. 300 Lac.

7. Water Requirement & Source

S.No.	Purpose	Demand (KLD)	Source
1	Mine operation	15	Sump water
2	Dust suppression	15	Sump water
3	Green Belt	05	Sump water
4	Drinking	04	Fresh water from outside
	Total	39	

8. Fuel & Energy Only HSD will be used for operation of machinery and DG set 2000 Lit/day.
9. Method of Mining Open cast semi-mechanized method. Excavations to be carried out by drilling, blasting, cutting, jiring.
10. Approval of Mining Plan Eco-Friendly mining plan approved by the Asstt. Mining Engineer, DMG, Jhalawar.

S.No.	Particulars	Amount in Lac Rs.	
		Capital Cost	Annual recurring
1	Pollution Control i) Dust Control (Watering) ii) Construction of garland drain around dump & Sump etc.	- 0.25	0.50 -
2	Pollution Monitoring (for Air, Water, Noise and Soil Testing)	-	0.20
3.	Occupational Health i) First Aid Room and Miscellaneous Equipments iii) Health check up camp	0.25 -	0.20 0.25
4.	Green Belt i) Mine (Tanker, Tree Guard) ii) Cost of plant	3.00 -	0.20 0.05
5	Reclamation/rehabilitation of mined out area/Miscellaneous	-	0.10
Total		3.50	1.50

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 Rajasthan State Pollution Control Board in its NOC shall be effectively implemented.
- ii. This environment clearance is limited to the enhancement of production capacity of Limestone from 11, 510 MT/year to 55,172 MT/year (80 lac sq. feet)
- iii. As stated by the PP, the water requirement for the project shall be limited to 39 m³ /day.
- iv. As committed, the PP shall invest at least Rs. 3.50 Lakh on initial capital component and thereafter Rs. 1.50 Lakh per year on implementing the EMP.
- v. As undertaken, the PP shall get renewed the Eco-Friendly Mining Plan.
- vi. The PP shall undertake to ensure minimum losses to the crops and undertake to contribute suitably for compensation to the loss/damage to the crops within 10 (ten) kilometers (the mandatory study area).
- vii. The mining operations shall be restricted to above ground water table and it shall 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. Permission from the competent authority shall be obtained for drawl of ground water, if any, required for the project.
- ix. The bench height will be kept at 6 meters and the width as 10 meters.
- x. Topsoil shall be stacked temporarily at earmarked sites only and it shall not be kept unutilized for a period more than three years. The topsoil shall be used for land reclamation and rehabilitation of mined out areas.
- xi. The project proponent shall ensure that no natural watercourse/water body shall be obstructed due to any mining operations.
- xii. The over burden generated shall be stacked at earmarked dump site (s) only and it shall 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.
- xiii. The overall slope of mine shall not exceed 45 degree as per rules prevailing in Department of Mines and Geology (Government of Rajasthan).
- xiv. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the RPCB and MoEF, Regional Office, Lucknow on six monthly basis.
- xv. 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.
- xvi. 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 shall be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly de-silted, particularly after monsoon, and maintained properly.

- xvii. 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 shall 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 shall also provide adequate pits shall be constructed at the corners of the garland drains and de-silted.
- xviii. Dimension of the retaining wall at the toe of dumps and OB benches within the mine to check run-off and siltation shall be based on the rainfall data.
- xix. As envisaged, the plantation shall be raised in a total area of 2.0 ha as given in the EMP as green belt in the around the mining lease by planting the native species around ML area, OB dumps, backfilled and reclaimed area, around water body, roads etc. in consultation with the local DFO/Agriculture Department. The PP shall plant 2000 trees ensuring that, the number of surviving trees is 1000 trees/per ha.
- xx. Regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of SPM and RPM such as haul road, loading and unloading point and transfer points. It shall be ensured that the Ambient Air Quality Parameters conform to the norms prescribed by the Central Pollution Control Board in the regard.
- xxi. The project authority shall implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.
- xxii. Regular monitoring of ground water level and quality shall be carried out in and around the mine lease The monitoring shall 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.
- xxiii. 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 vehicles shall be covered with a tarpaulin and shall not be overloaded.
- xxiv. Blasting operation shall be carried out only during the daytime and controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders shall be implemented.
- xxv. Drills shall either be operated with dust extractors or equipped with water injections system.
- xxvi. Consent to operate shall be obtained from RPCB before starting enhanced production from the mine .
- xxvii. The project proponent shall 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 plan 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.
- xxviii. A final mine closure plan along with details of corpus fund shall be submitted to the Ministry of Environment & Forest, 5 years in advance of final mine closure, for approval.
- xxix. Any mining will not be carried out below ground water table.
- xxx. The PP will submit copies of Analyses Reports along with copy of NABL approval of the laboratory conducting the Analyses.
- xxxi. The PP shall carryout the Worker's Welfare Programme as per provision of Mining Act.
- xxxii. The PP will carry out proper Socio-economic survey of the villages situated in the study area. Based upon its findings and keeping in view the felt needs of local populations, the PP will provide adequate budget for carrying out CSR activities.
- xxxiii. An initial sum of 5% or Rs 5,00,000/- (which ever is more) on capital investment reflecting voluntary Social commitment of the Project Proponent for provision of education, health and/or habitat to the community initially and Rs. 1.50 Lakhs or 1% of annual profit (which ever is more) per year towards socio-economic development including addressing public hearing issues shall be allocated; report of the same to be made a part of social monitoring and six monthly compliance reports shall be submitted to RPCB and MoEF, Zonal Office, Lucknow.
- xxxiv. The PP will submit revised maps showing locations of Top soil dump sites.
- xxxv. The PP shall submit the Pre Feasibility Report as per UNFC Classification for mineable reserves along with the mining plan
- xxxvi. The PP shall ensure that, the EC letter as well as the status of compliance of EC conditions and the monitoring data are placed on company's website and displayed at the project site.
- xxxvii. The SEIAA, Rajasthan reserve the right to add new conditions, modify/ annual any condition and/or to revoke the clearance if implementation of any of the aforesaid condition/other stipulations imposed by competent authorities is not satisfactory. Six monthly compliance status reports on project along with implementation of environmental measures shall be submitted to MoEF, Regional Office, Lucknow and RPCB.

B General Conditions:

- 1. Any change in mining technology/scope of working shall not be made without prior approval of the SEIAA.
- 2. Any change in the calendar plan including excavation, quantum of mineral and waste shall not be made.
- 3. Periodic monitoring of ambient air quality shall be carried out for PM₁₀, PM_{2.5}, SPM, SO₂ and NO_x monitoring. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring shall be decided in consultation with the Rajasthan State pollution Control Board (RPCB). Six monthly reports of the data so collected shall be regularly submitted to the RPCB/CPCB including the MoEF, Regional office, Lucknow.
- 4. Measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM etc. shall be provided with earplugs/muffs.

5. Industrial waste water (workshop and waste water from the mine) shall 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 shall be installed before discharge.
6. Personnel working in dusty areas shall wear protective respiratory devices they shall also be provided with adequate training and information on safety and health aspects.
7. Occupational health surveillance program of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
8. The project authorities shall 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.
9. The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year wise expenditure shall be reported to the RPCB and the Regional office of MoEF located at Lucknow.
10. The RPCB and MoEF, Regional Office, Lucknow shall monitor compliance of the stipulated conditions. The project authorities shall 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.
11. 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.
12. 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.
13. The RPCB shall display a copy of the clearance letter at the Regional Office, District Industry Center and Collector/Tehsildar's office for 30 days.
14. The SEIAA or any other competent authority may alter/modify the above conditions or stipulate any further conditions in the interest of environment protection.
15. 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.
16. 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 Honb'le Supreme Court of India/High Court of Rajasthan and any other Court of law relating to the Subject Matter.
17. 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.
18. The Project authorities shall 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 shall be forwarded to the Regional Office of MoEF located at Lucknow.

Yours faithfully,

Sd/-
(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. Secretary, SEAC Rajasthan.
7. The CCF, Regional Office, Ministry of Environment & Forests, RO(CZ), Kendriya Bhawan, 5th Floor, Sector 'H', Aliganj, Lucknow-226 020.
8. IA- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.

ty
M.S. SEIAA (Rajasthan)