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/Sez/Project/Cat.1 (a) BI (232) Y 06-10

To,

Mr. Deepak Dogra,  
Sr. Shri. Prakash Chandra,  
A-12, RIICO Housing Colony,  
Ajmer Road,  
Beawar

Sub: EC for proposed Rajwa Quartz & Feldspar mining project (ML No. 205-96) N/R Rajwa, Tehsil- Bhim, District- Rajsamand.

Sir,

This has reference to your application dated 18.11.09 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 25/26.2.10.

2. Brief details of the Project:

1. Category & Item no. (in the Schedule): I(a), B-1. Quartz and Feldspar Mine.
2. Location of Industry/ Project: Near village- Rajwa, Tehsil- Bhim, District- Rajsamand.
3. Plot Area: 9.5624 ha
4. Product & Capacity: Quartz & Feldspar, 35.750 MTA.
5. Expected Cost: Rs. 11.50 lacs.
6. Water Requirement & Source: Total quantity of water required 6 KLD (0.5 KLD - for drinking, 3.00 KLD - for dust suppression; 2.50 KLD - for green belt). Source: Ground water through a dug well situated out side lease area. No electricity required.
7. Fuel & Energy: HSD 5 liter/day required and it is procured from Authorized Public petrol pump.
8. Method of Mining: Open cast, semi mechanized.
10. Environment Management Plan:

<table>
<thead>
<tr>
<th>Sn.</th>
<th>Particular cost</th>
<th>Capital Cost</th>
<th>Recurring cost / Plan</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>Pollution Control &amp; Monitoring</td>
<td>Rs. 1.50 lac</td>
<td>Rs. 0.15 lac</td>
</tr>
<tr>
<td>2.</td>
<td>Green belt on virgin Area</td>
<td>Rs. 0.50 lac</td>
<td>Rs. 0.16 lac</td>
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<td>3.</td>
<td>Occupational Health</td>
<td>Rs. 0.30 lac</td>
<td>Rs. 0.16 lac</td>
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<td>4.</td>
<td>Dump Management</td>
<td>Rs. 0.50 lac</td>
<td>Rs. 0.03 lac</td>
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<td>5.</td>
<td>Miscellaneous (check dam, garnand drain, stone wall etc.)</td>
<td>Rs. 0.25 lac</td>
<td>Rs. 0.05 lac</td>
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<td></td>
<td>Total</td>
<td>Rs. 3.25 lac</td>
<td>Rs. 0.45 lac</td>
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Rs. 2.25 lac amount will be spent for social welfare work like Construction of School Room Play ground and providing hand pump.

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
A SPECIFIC CONDITIONS

i. The proponent will obtain prior CTE and CTO under Air Act and Water Act from RPCB and effectively implement all the conditions stipulated by the RPCB.

ii. The mining operations shall not intersect groundwater table. In case of working below ground water table, prior approval of the Central Ground Water Authority shall be obtained.

iii. Topsoil shall be stacked temporarily at earmarked sites only and it shall not be kept unutilized for a period more than three years; it shall be used for land reclamation and plantation in mined out areas.

iv. The project proponent shall ensure that no natural water source/water body shall be obstructed due to any mining operations.

v. The PP shall not mine Asbestos in the lease area. Regular asbestos monitoring shall be carried out and results submitted with ambient air monitoring results to RPCB.

vi. The dumping site selected and proposed shall be used for OB dump at the designated site as per the approved mine plan. The PP shall remove all old overburden from embankment & agriculture land, if any.

vii. The benches height and slope shall be maintained as per the DGMS approval.

viii. The over burden generated shall be stacked at earmarked dump site(s) only and it shall not be kept active for a long period of time. The maximum height of the already existing waste dumps shall not exceed 5 meters in single terraces and the slope angle shall not exceed 28°.

ix. Waste dump shall be terraced. The height of the dump and its slope shall not exceed than suggested/DGMS requirements. A retaining wall shall be constructed at the toe of the dump.

x. Garriad drains shall be constructed to prevent the flow of water in the dumps.

xi. Check dams shall be constructed in the seasonal rivulet to prevent the flow of fines to low lying areas during rains.

xii. Desilting of the check dams shall be done regularly during rains.

xiii. The PP shall not obstruct the natural drainages in the area.

xiv. The total waste generated in the present plan period shall be as envisaged, which shall be accommodated in old dumps in addition to the waste already dumped. Monitoring and management of rehabilitated areas shall continue until vegetation becomes self-sustaining. Compliance status shall be submitted to RPCB and MoEF Zonal Office, Lucknow on six monthly basis.

xv. Permission from the competent authority shall be obtained for drawal of ground water, if required.

xvi. Drills shall either be operated with dust extractors or equipped with water injection system.

xvii. 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.

xviii. Drains and siltation ponds of appropriate size shall be constructed for the working pit, OB dumps and mineral dumps to arrest flow of silt and sediment. The water so collected shall be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilting, particularly after monsoon, and maintained properly.

xix. Garriad drains, setting tanks and check dams of appropriate size, gradient and length shall be constructed both around the pit and over burden dumps and dump 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. Scupper capacity shall also provide adequate pits shall be constructed at the corners of the garriad drains and desilting.

xx. Dimension of the retaining wall at the toe of dumps and OB trenches within the mines to check run off and accumulation to be based on the rainfall data.

xxi. Flamination shall be raised in an area of 33% area including green belt in the safety zone around the mining lease by planting the native species around ML area, OB dumps, backfilled and reclaimed around water body, roads etc. in consultation with the local DFO/Agriculture Department. The density of the trees shall be 2000 plants per year with ensured survival of 1500 plants/year.

xxii. 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 CPCB.

xxiii. 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.

xxiv. Regular monitoring of ground water level and quality shall be carried out in and around the mine lease. The monitoring shall be carried out four times in a year: pre monsoon (April-May), monsoon (August), post monsoon (November); winter (January) and the data thus collected may be sent regularly to MoEF Regional Office, Lucknow; CGWA and Regional Director CGWB, Jaipur.

xxv. Data on ambient air quality and stack emissions shall be submitted to Rajasthan State Pollution Control Board once in six months carried out by MOEF/NABL/CPCB/Government approved lab.

xxvi. 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.

xxvii. Blasting operation shall be carried out only during the daytime controlled blasting shall be preceded. The mitigation measures for control of ground vibrations and to arrest fly rocks and boulders shall be implemented.

xxviii. Take all safety measures as per the various mining regulations specifically pertaining to Underground mines.

xxix. Consent to operate shall be obtained from SPCB starting enhanced production from the mine.

xxx. 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 shall 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.

A sum of anu. Rs 5,00,000/- cost may be kept earmarked for socio economic upliftment activities of the area particularly in the area of habitation, sanitation, health or education, and spend prior to receiving of CTE and thereafter Rs 10,00,000 as recurring CSR cost shall be provided. Items-wise break up in this regard may be submitted to RPCB at the time of applying for CTE.

A final mine closure plan along with details of corpus (and shall be submitted to the MoEF 5 years in advance of final mine closure for approval. The water reservoir, which would be created available during post closure (all sites) shall be provided with suitable benches and fencing to provide the access to the water body and safety purposes.

The FF shall ensure taking necessary steps on urgent basis to improve the living conditions of the construction labour at site.

The FF 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.

Group Insurance is to be provided.

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 tender plan including excavation, quantum of mineral and waste shall not be made.
3. Periodic monitoring of ambient air quality shall be carried out for RPM, SPM, SO₂ and NOₓ 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 and 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 HEMS etc. shall be provided with earplugs/harmers.
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 which 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 conditions 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 final closure work.
9. The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for the 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 implementation of the stipulated environmental safeguards to the RPCB, CPCC 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/reprentations 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 rules passed by the Hon’ble 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 provided 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 RPCD and its website, besides, a copy of the same shall 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.
4. Shri R.S. Bhandari, Member, SEIAA Rajasthan, 2nd Floor, 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 & Forest, RO(CZ), Kendriya Bhawan, 5th Floor, Sector 'K', Aliganj, Lucknow-226 020.
8. IA- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.

M.S. SEIAA (Rajasthan)