State Level Environment Impact Assessment Authority, Rajasthan

4, Institutional Area, Jhalana Doongri, Jaipur-302004
Phone: 0141-2705633, 2711329 Ext. 361

Jaipur, Dated: 29 APR 2011

To,

M/s JK White Cement Works,
(Div. of JK Cement Ltd.),
P.O. Gotan – 342902,
District – Nagaur (Raj.)

Sub: EC for China Clay Mining Project (M.L.No. old-04/1980, new 04/2002, Area 42.00 Ha) near Village - Rajputon Ki Dhani, Tehsil- Jaitaran, District - Pali, Rajasthan

Sir,

This has reference to your application dated 19.2.09 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 meetings held on 27/28.7.10 & 28th March, 2011.

2. **Brief details of the Project:**

1. Item No. in the list of Schedule/ Category: 1(a), B-1
2. Location of Mine
   - (1) Near village – Rajputon Ki Dhani, Tehsil-Jaitaran, District- Pali.
   - (2) Located in Sol, G.T. sheet no. 45 F/15.
3. Total Area
   - 42.0 ha.
   - (Agricultural land 38 ha; Wasteland 4 ha).
4. Mining Lease No.
   - 4/2002
5. Product & Capacity
   - China clay; Enhancement of Production Capacity from 3,029 TPA to 1,50,000 TPA.
6. Expected Cost
   - Rs. 10.00 Lacs.
7. Water Requirement & Source

<table>
<thead>
<tr>
<th>Water Requirement</th>
<th>Drinking</th>
<th>Dust Suppression</th>
<th>Green Belt</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Demand</td>
<td>0.5</td>
<td>2.0</td>
<td>1.5</td>
<td>4.0</td>
</tr>
<tr>
<td>Peak Demand</td>
<td>0.5</td>
<td>2.5</td>
<td>2.0</td>
<td>5.0</td>
</tr>
</tbody>
</table>

Source:
- Mine water(sump/pit) 4.0-5.0 KLD during post monsoon (3 to 4 month)
- Surface water bodies (pond)- 4.0-5.0 KLD – other than post monsoon period.
- No electricity is required for mining operations;
- Existing -30 LPD. Proposed-100 LPD

8. Fuel & Energy
   - Open cast, manual method of mining.
9. Method of Mining
10. Approval of Mining Plan
11. Environmental Management Plan

Cost of Environmental Protection Measures (Lac Rs.)

<table>
<thead>
<tr>
<th>Item</th>
<th>Capital cost</th>
<th>Recurring cost per annum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pollution control</td>
<td>2.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Pollution monitoring</td>
<td>1.00</td>
<td>0.80</td>
</tr>
<tr>
<td>Green belt</td>
<td>0.50</td>
<td>0.30</td>
</tr>
<tr>
<td>Occupational health</td>
<td>-</td>
<td>0.60</td>
</tr>
<tr>
<td>Reclamation and backfilling</td>
<td>0.80</td>
<td>0.60</td>
</tr>
<tr>
<td>Total</td>
<td>4.30</td>
<td>3.30</td>
</tr>
</tbody>
</table>
12. Socio-economic / CSR

Activities:

(1) The company supports every year in free treatment of 5 poor, critically ill villagers besides contributing in annual eye camp, social events, support for infrastructure projects of local community, tree plantation drinking water tube well, R.O. plant etc.

(2) The PP envisages that increased production would provide direct / indirect employment to local people leading to their economic and upliftment. The PP proposes to contribute towards education and medical facilities etc. to the local people alongwith the employees.

(3) The PP has earmarked an amount of Rs. 50,000/- per year for socio-economic welfare measures for nearby villages.

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:

PART A: SPECIFIC CONDITIONS

i. All the conditions stipulated by the State Pollution Control Board in its NOC should be effectively implemented.

ii. This EC is granted for expansion of the production capacity of China Clay from 3,029 TPA to 1,50,000 TPA as clarified by the PP.

iii. As stated by the PP, the water requirement for the project shall be limited to 5 KLD.

iv. As committed, the PP shall implement in letter and spirit the proposed EMP with the socio-economic plan and allocate and use the funds earmarked for the purposes i.e. R. 4.30 lakhs as the capital cost & Rs. 3.30 lakhs as annual recurring cost for the EMP as per the break up given in the EIA documents and the PP shall earmarked & spend at least an amount of Rs. 0.50 lacs per year for socio-economic welfare measures for nearby villages.

v. The PP shall ensure to carry out mining in mining lease (No. 4/2002; area 42 ha) by implementing in letter and spirit the “Mining Plan including Progressive Mine Closure Plan” approved by RCoM, IBM, Ajmer vide letter dt. 23.10.2004.

vi. The PP shall undertake to ensure minimum losses to the crops and undertake to contribute suitably for compensation to the loss/damage to 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. Permission from the competent authority should be obtained for drawl of ground water, if any, required for the project.

ix. That the project proponent will not obstruct the natural drains/water ways in and around the Mining Lease Area.

x. Top soil 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.

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 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 stream side to prevent the flow of fine particles.

xiii. The overall slope of mine shall not exceed 60 degree.

xiv. 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.

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 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.

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 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.

xviii. 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.

xix. The plantation shall be raised in at least 33% of the total lease area besides green belt around the mining lease area by planting the native species around ML area, OB dumps and back filled and reclaimed area, around water body, roads etc. in consultation with the local DFO/Agriculture Department. The PP shall ensure that, the planted tree is 2000 number per hectare ensuring survival of 1500 plants per hectare.

xx. Regular water sprinkling should be carried out in critical areas prone to air pollution and having high levels of PM 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.

xxi. 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.

xxii. Regular monitoring of ground water level and quality should be carried out in and around the mine lease area. The monitoring should be carried out four 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 to RPCB and MoEF, Regional Office, Lucknow, Central Ground Water Authority and Regional Director Central Ground Water Board.

xxiii. 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.

xxiv. Blasting operation should be carried out only during the daytime.

xxv. The mitigation measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.

xxvi. That the project proponent will carryout only controlled Blasting in the area after obtaining requisite permission from Director, Mines Safety and Director, Explosives.

xxvii. Drills shall either be operated with dust extractors or equipped with water injections system.

xxviii. Consent to operate should be obtained from RPCB before starting enhanced production from the mine.

xxix. The project proponent shall all take due care to protect the existing Flora and Fauna. Utmost precaution shall be taken to conserve wildlife.

xxx. 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.

PART 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, PM2.5, SPM, SO2 and NOx monitoring. Location of the stations (minimum 6) 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/EEMP 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 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 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,

(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. Derashi, 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 for information & necessary action and to display this sanction on the website of the Rajasthan State Pollution Control Board, Jaipur.
6. Secretary, SEAC Rajasthan.
8. IA- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.

M.S. SEIAA (Rajasthan)