

State Level Environment Impact Assessment Authority, Rajasthan

4, Institutional Area, Jhalana Doongri, Jaipur-302004

Phone: 0141-2705633, 2711329 Ext. 361

No: F 1(4)SEIAA/SEAC_Raj/Sectt./Project/Cat(1a B1)(79)/08-09

Jaipur, Dated: 30.11.2009

To,
M/s Selani Mines & Minerals
Champa Vihar, St. Gregorious School Road,
Khara Kuwa, Udaipur

Sub: EC for Kassiya Quartz Feldspar Mica Vermiculity Soapstone Calcite Kyanite Emerald & Magnesite Mine ML No.1/91 at Kassiya, Nasaribad Ajmer by M/s Selani Mines & Minerals

Sir,

This has reference to your application No Nil dated 22-09-07 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 meeting held 26-27 Dec.2008 and information submitted vide your letter dated 19-12-08.

2. It is interalia noted that as per project, Mining Area is 26.1165 Hect.(Existing Mine) and M.L. No. is 1/91. Estimated Cost of Project is Rs. 37.04 Crores. Product is Quartz Feldspar Mica Soapstone, Emerald Vermiculite etc. Total Water requirement is 10 KLD(1.00 KLD each for domestic and drinking, 6.00 KLD(for green belt) and 2.00 KLD (for dust suppression). Application number nil & date is 22-09-07. The Life of mine is 20 years. This is case for renewal; increasing the production from 1125 Mt to 7,500 MT and inclusion of new mineral (Emerald), Soapstone and Vermiculite for production. Working will be opencast semi-mechanized involving drilling and blasting. Three prominent hills extend from west to eastern boundary line of the lease area. The highest and the lowest mRL in the area are 518 mRL and 476.6 mRL. Drainage of the area is from North to South. Lease is located in non-forest area. ther important features *inter alia* include the following : The total mine lease area of the project is 26.1165 ha. The present land use of the area includes 0.6562 ha for mining; 0.633 ha is kept for OB dump; 0.0018 ha for infrastructure; 0.12 ha for roads, 0.01 ha for green belt and 24.6955 ha is undisturbed land. No wildlife sanctuary/national park etc; no core zone of bio-sphere reserve; no habitat of migratory birds; no archeological sites etc are involved. Lease area has good net work of surface water channels (nallahs), which facilitates movement of surface water to local ponds. The project area does not fall in Aravalli Hills (Mining Engineer, Ajmer Letter No. 6684 dated 24.10.2008). The Regional Controller of Mines, Indian Bureau of Mines Ajmer has approved mining plan of the project vide letter number 584/4-1(3) (121)07. RCM-AJM dated 28.11.2007 for lease area of 26.1165 ha. The Capital cost of the project is Rs.40.00 lakhs.

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 their NOC should be effectively implemented.
- ii. The mining operations 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.
- iii. Topsoil shall be stacked temporarily at earmarked sites only and it should not be kept unutilized for a period more than three years. The top soil should be used for land reclamation and rehabilitation of mined out areas.
- iv. The project proponent shall ensure that no natural water course/water body shall be obstructed due to any mining operations.
- v. The PP shall not mine Asbestos in the lease area
- vi. The dumping site has been selected at the proposed site and about 0.633 hectare land will be used for OB dump at a designated site as per the approved mine plan. The PP shall remove all old overburden from charagah & agriculture land.
- vii. The benches of 3 meter width and 3 meters height with 80° bench slope angle shall be maintained.
- viii. 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 meters in single terraces..
- ix. Waste dump will be terraced, height of the dump will not exceed more than 6.00 meters and slope will be less than 28°. A retaining wall will be constructed at the toe of the dump.
- x. Garland drains will be constructed to prevent the flow of the water in the dumps.
- xi. Check dams will be constructed in the seasonal rivulets to prevent the flow of fines to low lying areas during rains.
- xii. De-silting of the check dams will be done regularly during rains.
- xiii. The PP shall not obstruct the natural drains in the area.
- xiv. The total waste generated in the present plan period will be 37000 MT, which will be accommodated in old dump site in addition to the waste already dumped by making one terrace of 10 meters. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the SEIAA, Rajasthan, RPCB and Ministry of Environment, Zonal Office, Lucknow on six monthly basis.
- xv. 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.

Garland drains, setting tanks and check darns 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.


- (xvii) 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.
- (xviii) Plantation 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 area, around water body, roads etc. in consultation with the local DFO/Agriculture Department. The density of the trees should be 2000 plants per year with ensured survival of 1500 plants/yr.
- (xix) 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.
- (xx) 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.
- (xxi) 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); winter (January) and the data thus collected may be sent regularly to ministry of environment and Forests and its Regional Office, Lucknow, Central Ground Water Authority and Regional Director Central Ground Water Board, Jaipur.
- (xxii) Permission from the competent authority should be obtained for drawl of ground water, if any, required for the project.
- (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 controlled blasting should be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.
- (xxv) Drills shall either be operated with dust extractors or equipped with water injections system.
- (xxvi) Consent to operate should be obtained from SPCB starting enhanced production from the mine.
- (xxvii) 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 SEIAA, RPCB and MoEF, Regional Office, Lucknow within 3 months.
- (xxviii) A final mine closure plan along with details of corpus fund should be submitted to the ministry of Environment & Forests 5 years in advance of final mine closure for approval.
- (xxix) The water reservoir, which would be created/available during post closure(all pits), shall beprovided with suitable benches and fencing to provide the access to the water body and safety purposes.

B. GENERAL CONDITIONS

1. No change in mining technology and scope of working should be made without prior approval of the SEIAA, Rajasthan.
2. Any change in the calendar plan including excavation, quantum of mineral and waste should not be made.
3. Periodic monitoring of ambient air quality should be carried out for RPM, SPM, SO₂ and NO_x 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). The data so collected should be regularly submitted to the RPCB/CPCB including the Regional office of MoEF located at Lucknow once in six months.
4. 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.
5. 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, 1993 and 31st December 1993(amended to date). Oil and grease trap should be installed before discharge.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the RPCB, MoEF, Regional Office, Lucknow and CPCB.
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 should display a copy of the clearance letter at the Regional Office, District Industry Center and Collector's 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 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 State Pollution Control Board and its web site, besides, a copy of the same should be forwarded to the Regional Office of MoEF located at Lucknow.

Yours faithfully,


o/c (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, 5th Floor, Sector 'H', Aliganj, Lucknow-226 020.
8. IA- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.


o/c M.S. SEIAA (Rajasthan)