

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)B2 (647) /13-14 Jaipur, Dated: **26 MAY 2014**

To,
M/s Pacific Industries Ltd.,
Sapetia Road, Bedla,
Udaipur, Rajasthan 313002

Sub: Environmental Clearance for mining project of Tikhi ka Baria Granite Mine for an area of 3.00 hect. (ML No. 69/2013) near Village- Tikhi ka Baria, Tehsil-Mandal, District- Bhilwara, Rajasthan in favor of M/s Pacific Industries Ltd.

Sir,

This has reference to your application dated 10.12.13 seeking environmental clearances for the of above mining 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 Appraisal Committee Rajasthan, in its meeting held on 23.01.14 and 11.04.2014

Brief details of the Project:

1.	Category / Item no.(in Schedule):	1(a)B2				
2.	Location of Project	(ML No. 69/2013) near Village- Tikhi ka Baria, Tehsil-Mandal, District- Bhilwara, Rajasthan in favor of M/s Pacific Industries Ltd.				
3.	Project Details	S. No.	Particulars	Present Position (in hect.)	Position the end of 5 th Year (in hect.)	Position at the end of the Mine Life (in hect)
		(A)	Mining Activity			
		1.	Pits	0.000	1.2304	0.0000
		2.	Dump	0.000	0.1082	0.0000
		3.	Road	0.000	0.0338	0.0000
		4.	Plantation	0.000	0.1152	0.5580
		5.	Infrastructure	0.000	0.0145	0.0000
		6.	Top Soil Storage (temporary)	0.000	0.0396	0.0000
		7.	Mineral storage	0.000	0.0104	0.0000
		B)	Rain Water Storage	0.000	0.0000	2.4420
C)	Remaining Virgn Gov. waste land	3.000	1.4479	0.0000		
		Total	3.0 Hect	3.0 Hect	3.0 Hect	
Total plantation up to Mine Life – 0.5580 ha. 2.4420 ha. Will be used for rain water storage.						
4.	Project Capacity	Granite-51,478 MTPA, New Project opencast				
5.	Project Cost:	3.32 Crore				

6.	Water Requirement & Source	Drinking water can be obtained from tube well situated near by the lease area. A tractor Detail of water requirement in KLD as given below : 1. Dust Suppression – 1.0 2. Drinking – 0.50 3. <u>Green Belt – 0.50</u> Total - 2.0 KLD
7.	Fuel & Energy:-	Electricity power supply does not exist at mine site and it is proposed to take connection & about 250 lits. /day H.S.D will be used.
8.	Environment Management Plan	3 Lac / annum
9.	CSR Activates	2.9 lac
10.	Green Belt/ Plantation	Every year an area of about 1152 Sq. M will be used for plantation.
11.	Budgetary Breakup for Labour	Rs.4,60,650

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. This Environmental clearance is granted for Production – 51,478 MTPA Granite
- ii. Before starting the Mining operations, the proponent will obtained prior CTE and CTO under Air Act and Water Act from RPCB and effectively implement all the conditions stipulated by the RPCB.
- iii. 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.
- iv. 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.
- v. The project proponent shall ensure that no natural water course/water body shall be obstructed due to any mining operations.
- vi. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry / unit / project proponent. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.
- vii. 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 meters in single terraces and the slope angle shall not exceed 28° as per norms.
- viii. The dumping site selected and proposed shall be used for OB dump at the designated site within the lease area as per the approved mine plan. In no case the overburden should be dumped outside the lease area.
- ix. The benches height and slope shall be maintained as per the DGMS approval.

- x. 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.
- xi. Garland drains shall be constructed to prevent the flow of the water in the dumps.
- xii. Check dams shall be constructed in the seasonal rivulets to prevent the flow of fines to low lying areas during rains.
- xiii. The PP shall not obstruct the natural drains in the area.
- xiv. The P.P. should ensure compliance of the order of the Hon'ble Rajasthan High Court, Jodhpur, in D. B. Civil writ petition no. 1536 of 2003 in the matter of Abdul Rahman vs. State of Rajasthan and others.
- xv. The total waste generated in the present plan period shall be as envisaged, which shall be accommodated in old dumpsite in addition to the waste already dumped. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to RPCB and MoEF Zonal Office, Lucknow on six monthly bases.
- xvi. Permission from the competent authority shall be obtained for drawl of ground water, if required.
- xvii. Drills shall either be operated with dust extractors or equipped with water injection system.
- xviii. 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.
- xix. Catch 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 de-silted, particularly after monsoon, and maintained properly.
- xx. 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.
- xxi. 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.
- xxii. Green belt should be developed in 33% of total area including the proposed plantation .Plantation should be carried out in phased manner in three years. The green belt should be developed 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.
- xxiii. 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.
- xxiv. 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.
- xxv. 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; and Regional Director CGWB, Jaipur


- xxvi. 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.
- xxvii. 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.
- xxviii. Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigation measures for control of ground vibrations and to arrest fly rocks and boulders shall be implemented.
- xxix. The blasting operation will be carried out as per the norms of Director (Mines & Safety), Gaziabad.
Take all safety measures as per the various mining regulations.
- 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.
- xxxi. As envisaged, the P.P. shall invest at least an amount of Rs 3.0 lacs as annual recurring cost for implementing various environmental protection measures.
- xxxii. A sum of Rs2.9 lacs shall be earmarked by the P.P. for investment as CSR on socio economic up-liftment activities of the area particularly in the area of habitat, health or education, training programme of rural women & man provide the kit for employment generation. The proposal should contain provision for toilets for girls in nearby schools. The proposal should contain provision for monthly medical camps, distribution of medicines and improvement in educational facilities in the nearby schools. Details of such activity along with time bound action plan be submitted to RSPCB at the time of applying for CTE.
- xxxiii. Budgetary provision of Rs 4, 60,650 lac for the labours working in the Mine for all necessary infrastructure facilities such as health facility, sanitation facility, fuel for cooking, along with safe drinking water, medical camps, and toilets for women, crèche for infants should be made and submitted to RPCB, Jaipur at the time of CTE/CTO. The housing facilities should be provided for mining labours.
- xxxiv. A final mine closure plan along with details of corpus fund shall be submitted to the MoEF 5 years in advance of final mine closure for approval.
- xxxv. The water reservoir, which would be created/available during post closure (all pits), shall be provided with suitable benches and fencing to provide the access to the water body and safety.
- 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, SEIAA Rajasthan & 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 (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 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. The SEIAA, Rajasthan reserves the right to add new conditions, modify/annual any of the stipulated conditions and/or to revoke the clearance if implementation of any of the condition stipulated by SEIAA, Rajasthan or any other competent authorities is not satisfactory.
14. 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.
15. 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.
16. 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.
17. The PP shall ensure advertising in at least two local news papers widely circulated in the region, one of which shall be in vernacular language that, the project has been accorded environmental clearance and copies of the clearance letters are available with SEIAA, Rajasthan and the Rajasthan State Pollution Control Board and may also be seen on the website of the Board at www.rpcb.nic.in. The advertisement shall be made within 7(seven) days from the date of issue of the environmental clearance and a copy shall also be forwarded to the SEIAA, Rajasthan and Regional Office, Jaipur(S) of the Board.

18. All the other statutory clearances such as the approvals for storage of diesel from the Chief Controller of Explosives, Fire department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (protection) Act, 1972 etc. shall be obtained, as may be applicable, by PP from the competent authority.
19. These stipulations would also be enforced amongst the others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification' 06.
20. Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the proponent, if it was found that construction of the project has been started without obtaining environmental clearance.
21. Environment clearance is subject to final order of the Honb'le Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition(Civil) No. 460 of the year 2004 as may be applicable to this project.


(Yogendra Kumar Dak)
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. Addl. Chief Secretary, Environment Department, Rajasthan, Jaipur.
3. Smt. Alka Kala, Chairman, SEIAA, Rajasthan, 69-A, Bajaj Nagar Enclave, Jaipur
4. Shri Moti Lal Daima, Member, SEIAA, Rajasthan, 48/9, Moti Path, Mansarovar, 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 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. Director, Department of Mine & Geology, Court Chorha, Udaipur.
9. Environment Management Plan- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.
- ✓ 10. Nodal Officer (Departmental Website), Department of Environment, Government of Rajasthan, Jaipur with the request to upload the copy of this environmental clearance on the website.


M.S. SEIAA (Rajasthan)