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**State Level Environment Impact Assessment Authority,
Jharkhand.**

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Letter No. - 74

Ranchi, Date: 17/06/2013

To: M/s Patil Construction Ltd.
HI-278, Ground floor, Harmu Housing Colony,
Dist-Ranchi, Jharkhand-834012.

Sub.: Environmental Clearance for the proposed Bhagaundha Stone Mines of M/s Patil Construction, (Area 5.00 acres, i.e., 2.023 Ha) at Bhagaundha, P.S- Ramna, Dist.- Garhwa, Jharkhand.(File No EC/SEIAA/2012-13/21/2013)

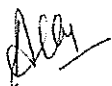
The Project Proponent applied for prior Environmental Clearance for proposed Quarry in Plot no.-1277/A (Part), Khata No. - 1220, P.S- Ramna, Dist. - Garhwa, Jharkhand. This proposal along with enclosures was forwarded to SEAC, Jharkhand vide SEIAA, Jharkhand letter no.-08 dated- 29/04/2013. Subsequent to its 16-05-2013 and 17-05-2013 meeting, the proposal was finally considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee (SEAC), Jharkhand in its 5th meeting held on 07-06-2013 & recommended for prior Environmental Clearance to State Level Environment Impact Assessment Authority (SEIAA), Jharkhand. The proposal has been considered by SEIAA in its 5th meeting held on 14-06-2013. It has been decided to accord Environmental Clearance(EC) to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:-

A. Specific Conditions

1. The Environmental Clearance is subject to grant of mining lease by the Department of Mines, Government of Jharkhand and all other Statutory Conditions as imposed by various agencies / District Authorities are complied with.
2. No mining shall be undertaken in the forest area without obtaining requisite prior forestry clearance under Forest Conservation Act, 1980. Any violation will be dealt in accordance with law.
3. Environmental Clearance is subject to final order of the Hon'ble Supreme Court of India /MOEF Guidelines applicable to Minor Minerals.
4. Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project.
5. The mining operations shall be restricted to above groundwater table and it should not intersect the groundwater table. In case of working below the ground water table, prior approval of the Ground Water Directorate, Gov. of Jharkhand shall be obtained.

[Signature]

6. Minimum distance shall be maintained from Reserve/Protected Forest as stipulated in applicable guidelines.
7. The project proponent shall ensure that natural watercourse and /or water resources shall not be obstructed due to any mining operations. Adequate measures shall be taken for conservation and protection of the first order and the second order streams, if any emanating /passing through the mine lease area during the course of mining operation.
8. The top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilised for long. The topsoil shall be used for land reclamation and plantation.
9. There shall be no external dump(s). Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and its nearest Regional Office on six monthly basis.
10. Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, sub-grade and mineral dump(s) to prevent runoff water and flow of sediments directly into the agricultural fields, and other water bodies. The water so collected should be utilised for watering the mine area, haul roads, green belt development etc. The drains shall be regularly desilted particularly after the monsoon and maintained properly.
11. Dimension of the retaining wall at the toe of the OB benches within the mine to check runoff and siltation shall be based on the rain fall data.
12. Greenbelt shall be developed all along the mine lease area and haul roads. Fast growing and local species will be planted. Work has to be taken up before this year monsoon.
13. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and transfer point. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
14. The Project proponent should implement suitable conservation measures to augment ground water resources in the area in consultation with the Ground Water Directorate, Gov. of Jharkhand.
15. The project proponent shall if required, obtain necessary prior permission /NOC of the competent Authorities for drawal of requisite quantity of water required for the project.
16. Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Ground Water Directorate, Gov. of Jharkhand.
17. 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 mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the minerals shall not be overloaded. No transportation of ore/ mineral outside the mine lease area shall be carried out after sunset.
18. No blasting shall be carried out after the sunset. Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.



19. Drills shall either be operated with the dust extractors or equipped with water injection system.
20. Mineral handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.
21. Effective safeguard measures should be taken to control fugitive emissions so as to ensure that RSPM (PM10 & PM2.5) levels are within prescribed limits.
22. Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
23. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
24. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile, toilets, septic tanks, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
25. Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.
26. A Final Mine Closure Plan duly approved by competent authority shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and concerned DMO in advance of final mine closure for approval.
27. The road leading to the quarry should be properly maintained with regular watering to arrest fugitive emission.
28. The project proponent shall obtain Consent to Establish and Consent to Operate from the Jharkhand State Pollution Control Board, Ranchi and effectively implement all the conditions stipulated therein.

B. General conditions

1. No change in mining technology and scope of working should be made without prior approval of the statutory authorities /Department of Mines, Government of Jharkhand /Jharkhand State Pollution Control Board, Ranchi.
2. No change in the calendar plan including excavation, quantum of mineral and waste should be made.
3. The Project proponent shall make all internal roads pucca and shall maintain a good housekeeping by regular cleaning and wetting of haul roads and the premises.
4. The Project proponent shall maintain a register for production and dispatch and submit return to the Board.
5. The Project proponent shall do tree plantation in at least 33% of the space, preferably along the periphery and in vacant space.



6. The Project proponent shall not cut trees / carry out tree felling in leased out area without the permission of competent authority.
 7. Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided by and properly maintained. The Project proponent shall install fixed type water sprinklers to cover all dusty places in the premises to impart water spraying intermittently and loading, unloading of raw materials/products and wastes.
 8. Measures should be taken for control of noise levels below prescribed norms in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs.
 9. Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards. Oil and grease trap should be installed before discharge of workshop effluents.
 10. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. 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.
 11. Dispensary facilities for First Aid shall be provided at site.
 12. A separate Environmental Management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
 13. 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 Jharkhand State Pollution Control Board, Ranchi.
 14. The Regional Office of Jharkhand State Pollution Control Board shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
 15. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the relevant competent authorities. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically.
 16. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
 17. All statutory clearances shall be obtained before start of operations.
2. The Authority (SEIAA) reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of the Authority or for that matter, for any other administrative reason.



3. **Validity of Environment Clearance:** The Environmental Clearance accorded shall be valid for a period of 5 years from the date of issuance of EC and co-terminus with valid mining lease.
4. In case of any deviation or alteration in the project proposed from those submitted to this Authority for clearance, a fresh reference should be made to the Authority to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.
5. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.

C+NO - 74

17/06/13 Recd.

c.h. Kranthi


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