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State Level Environment Impact Assessment Authority, Jharkhand.

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Letter No. 293

Ranchi, Date: 04.03.2014

To: **Shri Vivek Garg,**
Chirodih Bauxite Mine
Lake Avenue, P.O. - Kanke Road,
Dist.- Ranchi, Jharkhand. – 834 008.

Sub.: Environmental Clearance for the proposed **Chirodih Bauxite Mine Project** of M/s P S Garg (Shri Vivek Garg), Khata No:-7, Plot No:-14,15, Khata No:-21, Plot No:-166, Khata No:-30, Plot No:-16,17,21,22, Khata No:-31, Plot No:-164,12, Khata No:-71, Plot No:-5, Khata No:-72, Plot No:-6,8,9, Khata No:-89, Plot No:-19, Khata No:-95, Plot No:-7,11, Khata No :-131, Plot No:-45,10,13, 20, 165, 170,172, Khata No:-131/18, Plot No:-167,168, Village- Chirodih, P.S. - Bishnupur, Dist.- Gumla, Jharkhand (Area 16.59 Ha).(File No.- EC / SEIAA/2013-14/52/2013).

Sir,

The Proposal is for renewal of mine lease which fell due from 15.03.2005 for production of 1,35,925 TPA of Bauxite.

The proposal was appraised by SEAC and recommended for grant of Environmental Clearance vide SEAC meeting held on 26th to 29rd DECEMBER 2013.

The proposal along with recommendation made by SEAC was considered in the Authority (SEIAA) in its meeting held on 22.02.2014.

The Authority decided to grant EC to the proposal with the following conditions:-

A. Specific Conditions

1. The Environmental Clearance is subject to renewal of mining lease as per rule 24A of mineral concession Rule 1960 and all other Statutory Conditions as imposed by various agencies / District Authorities are complied with.
2. All the conditions stipulated by the State Pollution Control Board in their NOC shall be effectively implemented.
3. Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
4. Necessary permission from the Forest Department for transportation of mineral through the forest road shall be revalidated before restarting mining operation.
5. The mining operations shall be restricted to above ground water table and it should not intersect groundwater table. In case of working below the ground water table, prior approval of the Ground Water Directorate, Government of Jharkhand / Central Ground Water Board

shall be obtained. Benches height and slope shall be maintained as per approved Mining Plan.

6. The project proponent shall ensure that no natural watercourse shall 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.
7. Top soil should be stacked with proper slope at earmarked site(s) only with adequate measures and should be used for reclamation and rehabilitation of mined out areas.
8. The entire waste generated shall be backfilled and there shall be no external over burden dump left at the end of the mine life. The entire backfilled area shall be reclaimed by plantation. The back filling should be carried out in such a manner that it is restored to the normal ground level. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to Jharkhand State Pollution Control Board, Ranchi and its nearest Regional Office on six monthly basis.
9. Catch drains and siltation ponds of appropriate size should be constructed for the working pit, temporary OB dumps, if any and mineral dumps to arrest flow of silt and sediment. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted, particularly after monsoon, and maintained properly.
10. Garland drain of appropriate size, gradient and length shall be constructed for both mine pit and temporary 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 retention period to allow proper settling of silt material. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals.
11. Dimension of the retaining wall at the toe of temporary dumps and OB benches within the mine to check run-off and siltation should be based on the rain fall data.
12. Plantation shall be raised in the 7.5m wide green belt in the safety zone around the mining lease by planting the native species around ML area, backfilled and reclaimed area, around water body, roads etc. in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha.
13. Regular water sprinkling should be carried out in critical areas prone to air pollution and having high levels of SPM and RSPM 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 this regard.
14. The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Ground Water Directorate, Government of Jharkhand / Central Ground Water Board/ Authority.
15. Regular monitoring of ground water level and quality should be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring should be carried out four times in a year i.e. January, April-May, August, November and the data thus collected may be sent regularly to Jharkhand State Pollution Control Board, Ranchi and its nearest Regional Office / Ground Water Directorate, Government of Jharkhand / Central Ground Water Board / Authority.

- 16. The project authorities should obtain prior approval of the competent authority for drawl of water required for the project.
- 17. Suitable rainwater harvesting measures shall be planned and implemented in consultation with the Ground Water Directorate, Government of Jharkhand / Central Ground Water Board / Authority.
- 18. 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.
- 19. 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.
- 20. Drills shall either be operated with dust extractors or equipped with water injection system.
- 21. Effective safeguard measures should be taken to control fugitive emissions so as to ensure that RSPM (PM10 and PM 2.5) 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. 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.
- 24. Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.
- 25. A final mine closure Plan along with corpus fund duly approved by Competent Authority shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and to concerned DMO in advance of final mine closure for approval.
- 26. Consent to operate should be obtained from JSPCB before starting production from the mine.

B. General conditions

- 1. No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.
- 2. No change in the calendar plan including excavation, quantum of mineral bauxite and waste should be made.
- 3. The Project proponent shall maintain register for production and dispatch and submit return to the Board.
- 4. The Project proponent shall not cut trees / carry out tree felling in leased out area without the permission of competent authority.
- 5. Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for SPM / RSPM (PM10 and PM 2.5) levels, SO2 & NOx 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 undertaken in consultation with the State Pollution Control Board.

6. The Project proponent shall make all internal roads pucca and shall maintain a good housekeeping by regular cleaning and wetting of the haul roads and the premises. 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 and properly maintained.
7. 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 ear plugs / muffs.
8. Industrial wastewater (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 or as amended from time to time. Oil and grease trap should be installed before discharge of effluents from workshop.
9. 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.
10. Occupational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. Dispensary facilities for First Aid shall be provided at site.
11. 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.
12. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purposes. Year-wise expenditure should be reported to the Ministry and its Regional Office located at Bhubaneswar.
13. The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) by furnishing the requisite data / information / monitoring reports.
14. 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 Jharkhand State Pollution Control Board, Ranchi and to its concerned Regional Office.
15. 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. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office. The criteria pollutant levels namely; SPM RSPM, SO₂, NO_x (ambient levels) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
16. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / 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. JSPCB should display a copy of the clearance letter at the Regional

Office, District Industry Centre and DC's, Circle Officer's Office for 30 days. The project authorities should also advertise at least in two local newspapers widely circulated, 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 Jharkhand State Pollution Control Board

- 17. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along the status of compliance of EC conditions and shall also to the concerned Regional Office of JSPCB by e-mail.
- 18. All statutory clearances shall be obtained before start of mining operations.

C. Other points

- 1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
- 2. 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.
- 3. The Environmental Clearance accorded shall be valid for the period of renewal of lease (generally 20 years) or for 30 years whichever is less. The PP shall not increase production rate and alter lease area during the validity of Environmental Clearance.
- 4. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.
- 5. The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Tran boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Jharkhand and any other Court of Law relating to the subject matter.
- 6. 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.

Sd/-
Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.


Memo No. 293.

Dated: 04/03/14.

Copy to:

- 1. Principal Secretary, Department of Forests & Environment, Jharkhand.

2. Deputy Commissioner, District- Gumla, Jharkhand.
3. Divisional Forest Officer, Ranchi West Division, Lohardaga, Jharkhand.
4. Director IA Division, Monitoring Cell, MOEF, GoI, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi – 110003
5. District Mining Officer, District- Gumla, Jharkhand.
6. Member Secretary, Jharkhand State Pollution Control Board, Ranchi.
- ✓ 7. Secretary, Jharkhand State Expert Appraisal Committee, Ranchi.
8. Guard file.


Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand
