

No. J-11015/238/2011-IA.II (M)

Government of India
Ministry of Environment and Forests
Impact Assessment Division

Paryavaran Bhavan,
C.G.O. Complex, Lodi Road,
New Delhi-110 003

Dated: 30th May, 2013

To,

Mrs. Neeta Loomba

M/s. Rajyog Minerals Pvt. Ltd.
B-16/01, Paschim Marg, DLF Phase-I
Gurgaon,
Haryana, Pin-122002
Email- info@rajyoginternational.com
Tel: 0124- 2359519, 2359520

Subject: Paretha Granite Deposit Mine (Khasra no. 687) of M/s Rajyog Minerals Pvt. Ltd. located at Village Paretha, Tehsil-Nowgaon, District-Chattarpur, Madhya Pradesh with production capacity of 15,000 m³ (Max.)/A (2,50,000 TPA of ROM (22.00 ha)- Environmental Clearance regarding.

This has reference to your letter no. nil dated 24.08.2012 and subsequent letters dated 16.01.2013 and 08.04.2013 on the subject mentioned above. The project was prescribed Terms of Reference (TORs) by the Ministry of Environment and Forests on 28.12.2011 for undertaking detailed EIA study for the purpose of obtaining environmental clearance. The proposal was considered in the 2nd Meeting of the Reconstituted Expert Appraisal Committee for Environmental Appraisal of Mining Projects held during December 19th-21st, 2012. Further, the proposal was reconsidered in the 6th Meeting of the Reconstituted Expert Appraisal Committee for Environmental Appraisal of Mining Projects held during April 16th-18st, 2013 wherein the proposal recommended for environmental clearance.

2. The proposal is for opening of new mine for production of 15,000 m³ (Max/Annum) (2,50,000 TPA ROM) of granite in Paretha Granite Deposit Mine in 22.00 ha, situated at Village-Paretha, Tehsil Nowgaon, District Chattarpur, Madhya Pradesh. It has been considered as Category 'A' Project because of its location within 10 km of the interstate boundary i.e. 250 m between Madhya Pradesh and Uttar Pradesh. The daily water requirement is estimated as 15 KLD, which will be met from bore well situated within the lease area.

3. The latitude and longitude of the Mine Lease area on Toposheet No. 54 O/7 & 54 O/8 are 25° 15' 29.2"- 25° 16' 05.7" N and 79° 24' 10.6" - 79° 24' 23.6" E respectively. The mine lease area is 22 ha. The Letter of Intent was issued by Director of Geology and Mining in favour of M/s Rajyog Minerals Pvt. Ltd. vide order no. 5298/ Khanij/ N.KRA.23/ PL/ 10 dated 15.05.2011. Mining lease was granted by Department of Geology and Mining, Madhya Pradesh vide letter no. 11484-86/ Khanij/ N. KRA. 23/ 2010 Dated 26.07.2011. The lease deed was executed on 12.08.2011 for a period of 30 years. Mining Plan has been approved

by Department of Geology and Mining, Madhya Pradesh, Bhopal vide letter no. 9982/ Bhoumiki-2/ N.KRA.16/ 2011-12 dated 08.07.2011. The lease area is in a non-forest land, as per letter issued by Divisional Forest Officer, Chattarpur, Madhya Pradesh vide letter no. Kramank/ Ma. Chi./2010-996, Chattarpur dated 14.05.2010. It is reported that there is no loss of agricultural and grazing land as the entire lease area (22.00 ha.) is Govt. waste land. Life of the mine is 63 years.

4. It was reported that the mining activity will result in an excavation of 8.24 ha area which will be backfilled and reclaimed and rehabilitated by local plantation. Waste dump in an area of 0.72 ha, will be reclaimed by plantation. Infrastructure area (0.015 ha) and road (0.02 ha) will be left for public use. Plantation in an area of 6.81 ha will also be carried out, which will further improve the environment and aesthetic beauty. Rest of the area i.e. 6.195 ha will remain un-disturbed.

5. It was reported by the Proponent that No National Parks/Wild-Life Sanctuaries/Tiger Reserve/Elephant Reserve/Turtle Nesting Ground within 10 km radius of the project site. Schedule-I species of fauna of peacock has been reported during the study period. The authenticated list of flora and fauna has been obtained from the General, Forest Division Office, Chattarpur, Madhya Pradesh. The Proponent has submitted Conservation Plan for Schedule I species which is forwarded by the Chief Wild Life Warden, Bhopal.

6. It was reported that during the first five years 99,096 m³ waste will be generated, which will be dumped on the southern part by making one dump (0.72 ha) of 300m×24m×14m with terracing of 5m. During the conceptual phase, about 14,17,496 m³ waste will be generated which will be utilized to backfill in the southern part of the lease area. Backfilling will start after five years of operations and reaching to the ultimate limit in the area to be backfilled. The excavated pit will be backfilled and reclaimed by native species of plants

7. The public hearing was held on 08.07.2012 for proposed opening of new mine for production of 15,000 m³ (Max/Annum) (2,50,000 TPA ROM) of granite in Paretha Granite Deposit Mine in 22.00 ha. The capital cost of the project is Rs. 7.67 Crores and a budget for environmental protection measures is Rs. 2.0 Lakhs towards capital investment and Rs. 1.0 Lakhs towards recurring expense/annum. As reported by the Proponent, Rs 19.18 lakh earmarked for socio-economic welfare measures for the nearby villagers other than R&R plans.

8. The Ministry of Environment and Forests has examined the application in accordance with the EIA Notification, 2006 and hereby accords environmental clearance under the provisions thereof to the above mentioned proposal of M/s Rajyog Minerals Pvt. Ltd. for production of 15,000 m³ (Max/Annum) (2,50,000 TPA ROM) of granite in Paretha Granite Deposit Mine in 22.00 ha at Village-Paretha, Tehsil Nowgaon, District Chattarpur, Madhya Pradesh subject to implementation of the following conditions and environmental safeguards.

A. Specific Conditions

- i. Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project.

- ii. Implementation of Conservation Plan for Schedule I species as approved by the Chief Wild Life Warden, Bhopal.
- iii. The raw material shall be transported through road on dumpers/trucks covered with tarpaulin.
- iv. Effective safeguard measures such as conditioning of material with water, regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as around crushing and screening plant, 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.
- v. 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.
- vi. Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and installing new piezometers during the mining operation. The periodic monitoring [(at least four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office Bhopal, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity, necessary corrective measures shall be carried out.
- vii. The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any operations.
- viii. The decanted water from the plant shall be re-circulated within the mine and there shall be zero discharge from the mine.
- ix. Regular monitoring of water quality upstream and downstream of adjoining water bodies shall be carried out and record of monitoring data should be maintained and submitted to Ministry of Environment and Forests, its Regional Office, Bhopal, Central Groundwater Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board.
- x. As per EIA/EMP, the mining activity will result in an excavation of 8.24 ha area which will be backfilled and reclaimed and rehabilitated by local plantation. Waste dump in an area of 0.72 ha, will be reclaimed by plantation. Infrastructure area (0.015 ha) and road (0.02 ha) will be left for public use. Plantation in an area of 6.81 ha will also be carried out, which will further improve the environment and aesthetic beauty. Rest of the area i.e. 6.195 ha will remain un-disturbed.
- xi. As per EIA/EMP, during the first five years 99,096 m³ waste will be generated, which will be dumped on the southern part by making one dump

(0.72 ha) of 300m×24m×14m with terracing of 5m. During the conceptual phase, about 14,17,496 m³ waste will be generated which will be utilized to backfill in the southern part of the lease area. Backfilling will start after five years of operations and reaching to the ultimate limit in the area to be backfilled. The excavated pit will be backfilled and reclaimed by native species of plants

- xii. The project proponent shall obtain Consent to Operate from the State Pollution Control Board, Madhya Pradesh and effectively implement all the conditions stipulated therein.
- xiii. As part of ambient air quality monitoring during operational phase of the project, the air samples shall also be analysed for their mineralogical composition and records maintained.
- xiv. Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional Office located at Bhopal on six monthly basis.
- xv. Effective safeguard measures such as 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 Central Pollution Control Board in this regard.
- xvi. Appropriate mitigative measures shall be taken to prevent pollution of Karpia Nadi, Keolar Nadi, Urahu Nadi, Birma Nadi, Sukhanai Nadi and other water bodies viz. Birman Nallah, Dher Nallah in consultation with the State Pollution Control Board.
- xvii. The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water for the project.
- xviii. Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with Regional Director, Central Ground Water Board.
- xix. 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 from mine face to the plant. The vehicles shall be covered with a tarpaulin and shall not be overloaded.
- xx. Mineral handling plant 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.
- xxi. ETP shall also be provided for workshop and wastewater generated during mining operation.
- xxii. Digital processing of the entire lease area using remote sensing technique shall be carried out regularly once in three years for monitoring land use

pattern and report submitted to Ministry of Environment and Forests and its Regional Office, Bhopal.

- xxiii. Regular monitoring of ambient air quality shall be carried out and records maintained.
- xxiv. Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.
- xxv. Implementation of Action plan on issues raised during Public Hearing.

B. General Conditions

- (i) No change in technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.
- (ii) No change in the calendar plan including excavation, quantum of mineral iron ore and waste should be made.
- (iii) At least four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10 micron i.e., PM₁₀) 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 undertaken in consultation with the State Pollution Control Board. The data so recorded should be regularly submitted to the Ministry including its Regional office located at Bangalore and the State Pollution Control Board / Central Pollution Control Board once in six months.
- (iv) 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.
- (v) There will be zero waste water discharge from the plant.
- (vi) 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.
- (vii) 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.
- (viii) 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.
- (ix) 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 Ministry and its Regional Office located at Bhopal.

- (x) The project authorities should inform to the Regional Office located at Bhopal regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- (xi) The Regional Office of this Ministry located at Bangalore 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.
- (xii) 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 Ministry of Environment and Forests, its Regional Office Bangalore, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board. 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 the Regional Office of the Ministry of Environment and Forests, Bhopal, the respective Zonal Officer of Central Pollution Control Board and the State Pollution Control Board.
- (xiii) A copy of the clearance letter shall be sent by the 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 proponent.
- (xiv) The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the Collector's office/ Tehsildar's Office for 30 days.
- (xv) 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 concerned 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 with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Office of the Ministry of Environment and Forests, Bhopal by e-mail.
- (xvi) The project authorities should advertise at least in two local newspapers of the District or State in which the project is located and 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 State Pollution Control Board and also at web site of the Ministry of Environment and Forests at <http://envfor.nic.in> and a copy of the same should be forwarded to the Regional Office of this Ministry located at Bhopal.

9. The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

10. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

11. 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 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 Tamil Nadu and any other Court of Law relating to the subject matter.

12. 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.

(Dr. Saroj)
Director

Copy to:

- 1). The Secretary, Ministry of Mines, Government of India, Shastri Bhavan, New Delhi.
- 2). The Secretary, Department of Mines & Geology, Government of Madhya Pradesh, Secretariat, Bhopal.
- 3). The Secretary, Department of Environment, Government of Madhya Pradesh, Secretariat, Bhopal.
- 4). The Secretary, Department of Forests, Government of Madhya Pradesh, Secretariat, Bhopal.
- 5). The Chief Wildlife Warden, Government of Madhya Pradesh, Van Bhavan, 1st Floor, Tulsi Nagar, Bhopal - 462 003.
- 6). The Chief Conservator of Forests, Regional Office (WZ), Regional Office (WZ), Kendriya Paryavaran Bhawan, Link Road No.3, Ravi Shankar Nagar, Bhopal -462 016.
- 7). The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office complex, East Arjun Nagar, New Delhi-1100032.
- 8). The Member Secretary, Central Ground Water Authority, A-2, W3, Curzon Road Barracks, K.G. Marg, New Delhi-110001.
- 9). The Chairman, Madhya Pradesh State Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal - 462016.
- 10). The Controller General, Indian Bureau of Mines, Indira Bhavan, Civil Lines, Nagpur-440 001.
- 11). The District Collector, District Chattarpur, State of Madhya Pradesh.
- 12). Guard File
- 13). MoEF website

(Dr. Saroj)
Director