



REGD.POST WITH ACK.DUE

Lr.No. SEIAA/AP/ PKM-167/2013

Dt:08.10.2015

Sub: SEIAA, A.P. 7.252 Ha. Black Galaxy Granite Mine of M/s. Pearl Mineral & Mines Pvt. Ltd., (V.Nagaraju, M.D.), Sy.No. 55/6B (P), R.L. Puram (V), Chimakurthy (M), Prakasam District - Environmental Clearance – Issued - Reg.

I. This has reference to your application dt. 27.12.2012 submitted on 28.12.2012, seeking Environmental Clearance for the proposed 7.252 Ha. Black Galaxy Granite Mine at Sy.No. 55/6B (P), R.L. Puram (V), Chimakurthy (M), Prakasam District in favour of M/s. Pearl Mineral & Mines Pvt. Ltd.,. It was reported that the nearest human habitation viz., Ramatirtham (V) exists at a distance of about 0.7 km from the mine lease area. It was noted that the capital investment of the project is Rs. 97.0 Lakhs and capacity of the project is as follows:

Mining of Black Galaxy Granite: 42,000 m³ /annum in 7.252 Ha.

- II. It is a semi-mechanized open cast mine and the life of mine is 11 years. The total mine lease area is 7.252 Ha.
- III. The proposal has been examined and processed in accordance with EIA Notification, 2006 and its amendments thereof. The State Level Expert Appraisal Committee (SEAC) examined the application, in its meetings held on 21.03.2013 & 29.05.2013. The representative of the project proponent has attended the meeting. The committee noted that it is a violation case. The SEIAA has issued a notice to the proponent on 19.07.2013 directing to submit a written commitment duly complying with the procedure indicated in the Office Memorandum dt: 12.12.2012 issued by the MoE&F, GoI, New Delhi. The project proponent submitted a commitment letter on 14.08.2013. The SEIAA, A.P. addressed a letter to the Government, EFS&T Department, Govt. of Andhra Pradesh on 04.10.2013 for initiating credible action on the violation under the provisions of the E(P) Act, 1986 and also requested to inform the evidence of the credible action taken in the matter for further consideration of the proposal for issue of EC. The EFS&T Department, Govt. of Andhra Pradesh has submitted a credible action taken report vide letter dt: 20.03.2015.
- IV. The State Level Expert Appraisal Committee (SEAC) examined the application, in its meeting held on 19.04.2015 & 22.08.2015. The Committee examined the issues of Cluster Mines and mine dump waste management, in its meeting held on 22.08.2015 and the SEIAA, A.P. in its meeting held on 04.09.2015, decided to follow the resolution passed by the SEAC on the cluster issue and dump management. The SEAC considered the project proposal in its meeting held on 22.08.2015 and recommended for issue of Environmental Clearance to this mining project subject that the Project Proponent shall submit an affidavit on non-judicial stamp paper with the undertaking to comply with conditions stipulated by SEAC on issue of cluster of mine. The State Level Environment Impact Assessment Authority (SEIAA), in its meetings held on 04.09.2015 examined the proposal and the recommendations of SEAC and the SEIAA decided to issue Environmental Clearance. The Authority also noted that the Mining Plan in these cases have been approved by the Competent Authority which take care of waste management and this shall be ensured by the Project Proponent. The Project Proponent has submitted the Affidavit to the SEIAA, A.P., on 23.09.2015. The SEIAA, A.P. hereby accords Environmental Clearance to the project as mentioned at Para No. I under the provisions of the EIA Notification 2006 and its

subsequent amendments issued under Environment (Protection) Act, 1986 subject to implementation of the following specific and general conditions:

A. Specific Conditions:

- i. Project Proponents shall abide with conditions which may be stipulated in future in respect of operation of cluster of mines by the MoEF & CC, Govt. of India / SEIAA, Andhra Pradesh.
- ii. To abide by any Rules, Regulations, Bye-laws and Court's Orders made there under from time to time in respect of operation of cluster of mines.
- iii. Their operational methodology adopted for the implementation of conditions of Environmental Clearance will not be contrary to the existing statutes.

1. Air Pollution:-

- i. Wet drilling & wire saw cutting method shall be adopted to control dust emissions. Delay detonators and shock tube initiation system for controlled sequential blasting shall be used so as to reduce vibration and dust.
- ii. Greenbelt shall be developed along the boundary of mining lease area and also in back filled and reclaimed areas with tall growing native species in consultation with the local DFO/Agriculture Department. The proponent of mine shall carry mining operations in such a manner so as to cause least damage to the flora of the mining area and nearby areas. He shall take immediate measures for planting in the same area or any other area selected by authorities not less than twice the number of trees going to be felled by mining operations. He shall also take measures for restoration of other flora /fauna if damaged by mining operations.
- iii. Effective safe guard 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.
- iv. The proponent of mine shall carry air quality monitoring in the core zone as well as buffer zone for RSPM (PM10) and Noise levels. Location of monitoring stations should be decided based on the metallurgical data topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with Andhra Pradesh Pollution Control Board. The data so recorded should be regularly submitted to the Ministry including its Regional office located at Chennai and the Andhra Pradesh Pollution Control Board/Central Pollution Control Board once in six months.
- v. The proponent shall construct graded roads connecting the mining area to the nearby roads to avoid dust nuisance due to vehicular movements.
- vi. The proponent shall take precautions against noise arising out of mining operations and shall be abated or controlled at the source so as to keep it within the permissible limits notified under Environmental (Protection) Act, 1986 / Noise Pollution(Regulations & Control) Rules, 2010 by implementing the following noise control measures.
 - Proper and regular maintenance of vehicles and other equipment
 - Limiting time exposure of workers to excessive noise.
 - The workers employed shall be provided with protection equipment and earmuffs etc.
 - Speed of trucks entering or leaving the mine is to be limited to moderate speed of 25 kmph to prevent undue noise from empty trucks.

- vii. Whenever any damage to public buildings or monuments is apprehended due to their proximity to the mining lease area, scientific investigations shall be carried out by the holder of mining lease so as to keep the ground vibrations caused by blasting operations within safe limit.

2) Water Pollution:-

- i. The source of water is Bore well. Total water requirement is 19.0 KLD. Out of that, 15.0 KLD is used for dust suppression; 2.0 KLD is used for development of green belt; 2.0 KLD is used for domestic purpose.
- ii. Garland drain and Siltation ponds of appropriate size should be constructed for the working pit 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.
- iii. The proponent of the mine shall take all possible precautions to prevent or reduce the discharge of toxic and objectionable liquid effluents from mine, workshop, tailing ponds into surface bodies, ground water aquifer and useable lands to a minimum. The effluents shall be suitably treated, if required, to conform to the general standards notified under Environmental (Protection) Act, 1986.
- iv. Monitoring of ground water level and quality should be carried out quarterly by the project proponent in and around the project area in consultation with State Ground Water Department/Central Ground Water Authority and data thus collected shall be submitted regularly to the MOEF&CC and its Regional Office Chennai, CGWA, and the Regional Director, Central Ground Water Board, Hyderabad. If at any stage, it is observed that the ground water table is getting depleted due to the mining activity, necessary correction measures shall be carried out.
- v. Suitable conservation measures to augment groundwater resources in the area shall be planned and implemented in consultation with Regional Director, CGWB, Southern Region, Hyderabad. Suitable measures should be taken for rainwater harvesting.
- vi. Permission from the competent authority should be obtained for drawl of ground water, if any, required for this project.

4) Solid Waste :-

- i. **Topsoil:** Wherever top soil exists and is to be excavated for mining operations, it shall be removed and stacked separately and top soil so removed shall be utilized for restoration or rehabilitation of the land, which is no longer required for mine operations or for stabilizing or landscaping the external dumps. Whenever the top soil cannot be utilized concurrently, it shall be stored separately for future use.
- ii. **Overburden:** The proponent of mine shall take steps so that the overburden, waste rock, rejects and fines generated during mining operations shall be stored in separate dumps preferably on impervious grounds. The waste rock, overburden etc. shall be concurrently backfilled into the mine excavations so as to restore the land to its original use as far as possible. In the case of non feasibility of back filling, the waste dump shall be suitable terraced and stabilize through the vegetation. The proponent shall maintain proper angle of repose to ensure stability to the dump.
- iii. The proponent of the mine shall construct required number of retaining walls to provide stability to the dumps. Dimensions of the retaining walls shall be based on the rainfall data.
- iv. The proponent of mines shall construct required number of garland drains to arrest mineral particles being carried away as runoff during rainy seasons around the dump yards. Dimensions of the garland rains shall be based on rainfall data

- v. Waste oils, used oils generated from the EM machines, mining operations, if any, shall be disposed as per the Hazardous Wastes (Management, Handling, and transboundary movement) Rules, 2008 and its amendments thereof to the recyclers authorized by APPCB.
- vi. The proponent of the mine shall undertake phased restoration, reclamation and rehabilitation of the lands affected by the mining operations and shall complete this work before the conclusion of such operations and the abandonment of the mine.

B. General Conditions:

- i. This order is valid for a period of 11 years or the expiry date of mine lease period issued by the Government of A.P., whichever is earlier.
- ii. "Consent for Establishment" & "Consent for Operation" shall be obtained from Andhra Pradesh Pollution Control Board under Air and Water Act and effectively comply with all the conditions stipulated thereof.
- iii. No change in mining technology and scope of working should be made without prior approval of the SEIAA, A.P. No further expansion or modifications in the mine shall be carried out without prior approval of the SEIAA, AP/ MOEF&CC, GoI, New Delhi, as applicable.
- iv. Personnel working in dusty areas shall be provided with protective respiratory devices and they should wear, and they should also be provided with adequate training and information on safety and health aspects.
- v. The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any, originating from the mine lease shall be taken.
- vi. 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.
- vii. 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.
- viii. The funds earmarked Rs. 10.0 lakhs 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 Chennai.
- ix. The Regional Office of MOEF&CC located at Chennai 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.
- x. 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 & Forests, its Regional Office, Chennai, SEIAA, Zonal Office of Central Pollution Control Board, Bangalore and A.P. Pollution Control Board. The proponent shall upload the status of compliance of the environmental clearance conditions including results of monitored data on their websites and shall update the same periodically.
- xi. The project proponent shall submit the copies of the environmental clearance to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.

- xii. The environmental statement for each financial year ending 31st march in Form-V as mandated is to be submitted by the project proponent to the A.P. 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 Regional office of the Ministry of Environment and Forests, Chennai by e-mail.
- xiii. The project authorities should 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 State Pollution Control Board and SEIAA, A.P.
- xiv. The proponent shall obtain all other mandatory clearances from respective departments.
- xv. 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.
- xvi. Concealing the factual data or submission of false / fabricated data and 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.
- xvii. The SEIAA may revoke or suspend the order, if implementation of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- xviii. 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.

Sd/-
MEMBER SECRETARY,
SEIAA, A.P.

Sd/
MEMBER,
SEIAA, A.P.

Sd/-
CHAIRMAN,
SEIAA, A.P.

To

✓ Sri C.H.V. Nagaraja, MD,
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