



STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA), ODISHA

{ Constituted vide order No. S.O. 1899 (E) Date 17th August, 2012

Ministry of Environment & Forest, Govt. of India, Under Environment Protection Act, 1986.)

Qr. No. 5RF-2/1, Unit - IX, Bhubaneswar - 751022

Tele / Fax : 0674 - 2540669, E-mail : seiaaorissa@gmail.com

Ref. No. 2848/SEIAA

Dt. 21.01.15

From

Shri S. B. Samant, IFS
Member Secretary,
State Environment Impact Assessment Authority, (SEIAA)
Odisha, Bhubaneswar

To

Mr. Sunandan Pradhan,
(Managing Partner)
M/s Pradhan Industries
Telenga Bazar, Cuttack -753009
Phone No. 0671-2423078

Sub: Environmental Clearance for expansion of Laxmipur Graphite Beneficiation plant from 950 TPA to 12,000 TPA at village Katrakana in the district of Koraput of M/s Pradhan Industries.

Sir,

This has reference to your application no. PI/HO/LPR/TEFR/857/2010-11 dated 26.11.2010, no. PI/SEIAA/LBP-01/125/2013 dated 11.11.13, no. PI/SEIAA/LBP-01/147/2014 dated 10.03.2014, no. PI/MC/LPR/EC/168/2014 dated 05.05.2014, no. PI/MC/LPR/EC/2014 dated 13.05.2014 and no. PI/LPR/MC/EC/335/2014 dated 28.11.2014 seeking environmental clearances for the above project under EIA Notification 2006. The proposal has been appraised as per the provisions under the EIA Notification 2006 and on the basis of the documents enclosed with the application and clarifications furnished in response to the observation of the State Expert Appraisal Committee, Odisha.

M/s Pradhan industries have proposed enhancement of production capacity of the existing Laxmipur Graphite Beneficiation Plant from 950 TPA to 12,000 TPA (throughput) along with modernization and up-gradation facilities in the existing plant located at village Katrakana, District- Koraput.. The concentrate graphite produced at Bandhamandi Beneficiation Plant, established within the mining lease area of Bandhamandi Graphite Mines of M/s Pradhan Industries, is transported to Laxmipur plant for further up-gradation to increase the fixed carbon from 70-75% to 90-95%. The total fresh water (makeup) requirement is 81 KLD. In addition to this, the initial fill of water for processing the plant shall be 70m³ (one time requirement only). Water is proposed to be drawn from Godabandha Nala through intake well. The project involves process such as grinding,

washing, pneumo froth floatation, filtration, drying and packing. A total of 2436 TPA of tailings will be generated from the plant. The area ear marked for tailing disposal is 0.9 hectare within the plant area and location of the tailing pond is within the plant area of 6.336 ha. The tailings generated from the beneficiation plant will be transported through underground pipeline to the designated tailing pond site across SH4. Permission for laying of pipelines across SH4 for transportation of tailings has also been approved by the Executive Engineer, Koraput (R&B) Division vide letter no. 7368 dated 27.12.2011. Total land acquired by the project is 6.386 ha. The ToR was issued to the project vide letter no. 205 dated 23.03.2011. Public hearing of the project was conducted on 15.02.2014. The total project cost is Rs. 2.52 Cr.

Considering the information/documents furnished and clarifications provided during presentation made by the consultant M/s S.S. Environics Bhubaneswar on behalf of the project proponent, the State Expert Appraisal Committee (SEAC) after due considerations of the relevant documents submitted by the project proponent and clarification/documents furnished to it have recommended for Environmental Clearance with certain stipulations. The State Environment Impact Assessment Authority (SEIAA) after considering the proposal and recommendations of SEAC, Odisha hereby accords Environmental Clearance in favour of the project for a period of 5 (five) years under the provisions of EIA Notification 2006 and 2009 and subsequent amendments thereto under various MoEF, Govt. of India circulars subject to strict compliance of the terms and conditions as follows.

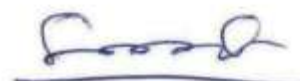
Stipulated Conditions:

1. The raw material for the beneficiation plant is to be drawn from Bandhamandi Graphite beneficiation plant established within the mining lease area of Bandhamandi Graphite Mines of M/s Pradhan Industries. This Environmental Clearance is subject to grant of environmental clearance to Bandhamandi Graphite Mines and beneficiation plant by the MoEF, Govt. of India.
2. The applicant (Project proponent) will take necessary measures for prevention, control and mitigation of Air Pollution, Water Pollution, Noise Pollution and Land Pollution including solid waste management as mentioned by him in Form-I, Final EIA reports and Environment Management Plan (EMP) in compliance with the prescribed statutory norms and standards.
3. The applicant will take necessary steps for socio-economic development of the people of the area on need based assessment for providing employment, education, health care, drinking water and sanitation, road and communication facilities.
4. The applicant will comply to the points, concerns and issues raised by the people during public hearing on 15.02.14 in accordance with the commitments made by him thereon.
5. The applicant will take statutory clearance /approval /permission from the concerned authorities in respect of his project as and when required.
6. For post environmental clearance monitoring, the applicant will submit half yearly compliance report in respect of the stipulated terms and conditions of Environmental Clearance including results of monitored data (both in hard copies as well as by e-mail) to the State Environmental Impact Assessment Authority (SEIAA) Odisha,



Regional Office of MoEF, the respective Zonal office of CPCB and the SPCB on 1st June and 1st December of each calendar year.

7. The effluent generated from beneficiation process shall be treated and completely recycled with make-up water in the beneficiation process.
8. The overflow from tailing pond shall be treated with oil separation unit and in settling pond and reused in process. The seepage from tailing pond area shall be collected through garland /toe drain and shall be treated in settling pond and reused for dust suppression.
9. The tailing pond shall be designed suitably with reclamation of clarified water and control of seepage water shall be provided by constructing seepage water collection ditch at the downstream side along with the recirculation facilities. De-silting of tailings shall be carried out periodically before onset of monsoon.
10. Maintenance of roads through which transportation of minerals are undertaken shall be carried out by the project proponent regularly at its own cost.
11. The tailings from the plant shall be disposed at the earmarked site, which shall be above highest water table and adequate measures shall be taken to prevent any leaching from the disposal site into groundwater. Efforts shall also be made to gainfully utilization of tailings generated in an environmentally compatible manner.
12. Fugitive dust generation shall be controlled. Fugitive dust emission shall be regularly monitored at locations of nearest human habitation (including schools and other public amenities located nearest to sources of dust generation as applicable) and records shall be submitted to the SEIAA, Odisha.
13. Transportation of tailings shall be done by lining the trucks so that it shall not drip and make the public road in suitable for general traffic.
14. 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 Bhubaneswar and the State Pollution Control Board / Central Pollution Control Board once in six months. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. The criteria pollutant levels namely; SPM, RSPM, NO_x or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
15. A green belt of adequate width and density preferably with local species along the periphery of the plant & alongside roads etc. shall be raised so as to provide protection against particulates and noise. It must be ensured that at least 33% of the total land area shall be under permanent green cover. The project proponent shall ensure proper maintenance of green belt throughout the year & for this purpose they may engage professionals in this field for creation and maintenance of the green belt. An action plan for this purpose shall be prepared accordingly and submitted to the SEIAA, Odisha.



16. Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations should be provided with ear plugs/muffs.
17. As part of ambient air quality monitoring during operational phase of the project, the air samples shall also be analyzed for their mineralogical composition and records maintained.
18. 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.
19. Transportation of minerals shall be done by covering the trucks with tarpaulin or other suitable mechanism so that no spillage of mineral /dust takes place.
20. Monitoring of ground and surface water quality shall be regularly conducted and records should be maintained and data shall be submitted regularly to the SEIAA, Odisha.
21. Provision shall be made for the housing of the labourers within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
22. Occupational health and safety measures for the workers including identification of work related health hazards, training on malaria eradication, HIV and health effects on exposure to mineral dust etc. shall be carried out. The Proponent shall engage a full time qualified doctor who is trained in occupational health. Periodic monitoring for exposure to respirable mineral dust on the workers shall be conducted and records maintained including health records of the workers. Awareness programme for workers as well as local people on impact of mining on their health water conservation and quality sanitation and precautionary measures like use of personal equipments etc. shall be carried out periodically. Review of impact of various health measures undertaken (at interval of five years or less) shall be conducted followed by follow up action wherever required. Occupational Health Centre shall be established near the mine site itself.
23. The funds earmarked for the environment protection measures shall be judiciously utilized. Under no circumstances this funds shall be diverted for other purposes. Year-wise expenditure for this fund should be reported to the SEIAA, Odisha.
24. The project proponent shall obtain necessary prior permission of the competent authorities for drawal of requisite quantity of water required for the project.
25. The project proponent shall prepare wild life conservation plan in consultation with DFO and adequate safety and mitigation measures should be incorporated to protect the wild life, flora, fauna to mitigate adverse impact.
26. Rainwater harvesting should be adopted. Central Ground water Authority /Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance and details shall be furnished to the SEIAA, Odisha.
27. The Project Proponent should ensure advertising in at least two local newspapers widely circulated in the region, one of which shall be in vernacular language informing the Public that, the project has been accorded environment clearance and

copies of the clearance letters are available with SEIAA, Odisha and the Odisha State Pollution Control Board (OSPCB) and may also be seen on the website of the board. The advertisement shall be made within 7 (seven) days from the date of issue of the environmental clearance & a copy of the same should be forwarded to the Regional office of MoEF, Bhubaneswar.

28. 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, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
29. The environment statement for each financial year ending 31st March inform-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 Offices of the Ministry by e-mail.
30. 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.


The above mentioned stipulated conditions shall be complied in time bound manner. Failure to comply with any of the conditions mentioned above may result in withdrawal of this environmental clearance and attract action under the provisions of Environment Protection (EP) Act, 1986.

Yours faithfully,


21.1.15
Member Secretary

Memo No 2849/SEIAA /Dt. 21.01.15
Copy to

1. Ministry of Environment, Forests and Climate Change Govt. of India, Indira Paryavaran Bhavan, Jor Bagh Road, Aliganj, New Delhi-110003 for kind information.
2. Principal Secretary, Forests & Environment Dept., Government of Odisha for kind information.
3. Chairman, State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-8, Bhubaneswar for kind information.
4. Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment & Forests, A-31, Chandrasekharapur, Bhubaneswar for kind information.
5. Chairman, Central Pollution Control Board, CBD-cum-office Complex, East Arjun Nagar, New Delhi-110032 for kind information.
6. Collector & District Magistrate, Koraput for kind information and necessary action.
7. Chairman/Member/ Member Secretary, SEIAA for kind information.
8. Chairman, SEAC/Secretary, SEAC, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar for kind information.
9. Guard file for record.


21.1.15
Member Secretary