



STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, (SEIAA), ORISSA.

(Constituted vide order No. S.O. 2674 (E) Date 17th Nov. 2008 of Ministry of Environment & Forest, Govt. of India, Under Environment Protection Act, 1986.) Qr. No. 5RF-2/1, Unit-IX, Bhubaneswar-751022
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Ref. No. _____

Dt. _____

SEIAA – 95/10

From

Bhagirathi Behera, IFS
Director, Environment-cum-
Spl. Secretary to Government
& Member Secretary, SEIAA, Odisha

To

Sri Charanjeet Singh Grewal,
Mines Owner,
National Enterprises
At/Po-Barbil-758035
Dist-Keonjhar
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Sub: Environmental Clearance for enhancement of production of iron ore upto 502200 TPA over an area 45.932 ha. at village Raikela in the district of Sundargarh of M/s National Enterprises.

Sir,

This has reference to your letter no. NE/Raikela/2009-10/EC/001 dated 29.03.2010, no. NE/BBL/0131/10-11 dated 17.04.2010 and no. NE/BBL/0137/10-11 dated 20.04.2010 along with application for Terms of Reference (ToR) and subsequent application vide letter no. NE/BBL/411/10-11, dated 18.07.2011, no nil dated 07.09.2011 and no. nil dated 12.10.2011 on the above mentioned subject I am directed to say that the State Environment Impact Assessment Authority, Odisha have considered the application for the proposal for enhancement of production capacity of iron ore mine upto 5,02,200 TPA over mining please area of 45.932 ha. Out of total mine lease area, 43.876 ha. is forest land. The mine is in operation since 1983 by Sri U.C Mishra and later the lease was transferred to M/s National Enterprises on 18th July, 1985. 1st mining lease period expired on 21.12.2003 and lease renewal application for another 20 years was submitted on 18.10.2002. The mine is presently running under deemed provision of mining lease. The mining scheme was approved on 04.01.2010 for a period of five years (2008-2009 to 2012-2013). The mine has obtained EC from MOEF, Govt. of India on 18.02.2009 for production of iron ore upto 42000 TPA. The mine has obtained forest clearance (Stage-1) on 18.10.2010 and Stage-II on 25.11.2005. The mine working is opencast mechanized. The estimated total volume of

waste likely to be generated at the end of life of mine is 88248.43 m³. Sizing of ore will be done by movable crusher and screen plant. Total water requirement is 40 KLD (38 KLD from Karo nala and 2 KLD from bore well). The TOR was issued by the SEAC, Odisha vide letter No. 436 dated 03.08.2010 for conducting detailed EIA study. Public hearing for the proposal was conducted on 30.05.2011. M/s SENES Consultants India Pvt. Ltd. made a detailed presentation on the proposal on behalf of the proponent before the SEAC in its meeting held on 7th & 8th September, 2011.

The SEAC decided to take decision on the proposal after receipt of certain information/document /clarification from the proponent. The proponent furnished the information/document /clarification and the committee verified the same.

Based on the information / documents and clarifications furnished by the proponent and on recommendation of SEAC, Odisha, the State Environment Impact Assessment Authority, Odisha hereby accords Environmental Clearance in favour of the project for a period of 5 (five) years under the provisions of the Environment Impact Assessment Notification, 2006 and 2009 and subsequent amendment thereto under various MoEF, Govt. of India circulars thereunder and subject to the following stipulated conditions.

Stipulated Conditions:-

- i. 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-1, Final EIA reports and Environment Management Plan (EMP) in compliance with the prescribed statutory norms and standards.
- ii. 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 etc. after a detailed primary socio-economic survey.
- iii. The applicant will comply to the points, concerns and issues raised by the people during public hearing on 30.05.2011 in accordance with the commitments made by him thereon.
- iv. The applicant will take statutory clearance /approval /permissions from the concerned authorities in respect of his project as and when required.
- v. For post environmental clearance monitoring, the applicant will submit half-yearly compliance report in respect of the stipulated terms and conditions of Environmental Clearance to the State Environmental Impact Assessment Authority (SEIAA), Odisha on 1st June and 1st December of each calendar year.
- vi. The core zone should be monitored intensively with no. of stations as prescribed by CPCB, Delhi and unit of pollutant level should be expressed as NAAQ of CPCB, Delhi. The detailed methodology adopted for analysis of samples shall be clearly indicated.
- vii. The proponent shall submit baseline data on flora & fauna and CSR activities already carried out within three months to the SEIAA.
- viii. Adequate buffer zone shall be maintained between two consecutive mineral bearing deposits.

- ix. Zero waste mining concept shall be implemented either by putting up pelletisation plant or dispose of low grade ores/fines to prospective buyers.
- x. The following shall be implemented viz. (a) dump run-off should be diverted into setting ponds (b) adequate rain water harvesting and ground water recharging facilities should be developed in the core zone; (c) attempt should be made to achieve zero water balance.
- xi. Maintenance of roads through which transportation of ores are undertaken shall be carried out by the project proponent regularly at its own cost.
- xii. 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.
- xiii. 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.
- xiv. Transportation of ore shall be done by covering the trucks with tarpaulin or other suitable mechanism so that no spillage of ore/ dust takes place.
- xv. Rain water harvesting shall be undertaken to recharge the ground water source.
- xvi. 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.
- xvii. The proponent shall ensure that no silt originating due to mining activity is transported in the surface water course. Measures for prevention and control of soil erosion and management of silt shall be undertaken. Protection of dumps against erosion shall be carried out with geo textile matting or other suitable material, and thick plantations of native trees and shrubs shall be carried out at the dump slopes. Dumps shall be protected by retaining walls.
- xviii. Trenches /garland drains shall be constructed at foot of dumps to arrest silt from being carried to water bodies. Adequate number of Check Damps shall be constructed across seasonal/ perennial nallahs (if any) flowing through the ML area and silts be arrested. De-silting at regular intervals shall be carried out.
- xix. 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 completion of the project.
- xx. Occupational health and safety measures of 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 workers shall be conducted and records maintained including health records of the workers. Awareness programme for workers on impact of mining on their health 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 established near the mine site itself.
- xxi. Shelter belt i.e. Wind Break of 15 m width and consisting of at least 5 tiers around lease facing the human habitation , school / agricultural fields etc. (if any in the vicinity) in the safety zone / back- field & reclaimed areas , around voids & roads shall be raised Green belt development and selection of plant species shall be as per CPCB guidelines. Density of the trees has to be around 2500 plants per hectare. Herbs and shrubs shall also form a part of afforestation programme besides tree plantation .Help & guidance of local DFO may be sought in the matter. Details of year wise afforestation programme including rehabilitation of mined out area shall be submitted to the SEIAA, Odisha within six months.
 - xxii. This Environmental Clearance is subject to Forest Clearance under the Forest (Conservation) Act, 1980.
 - xxiii. The mining operations shall be restricted to above ground water table and it should not intersect the groundwater table.
 - xxiv. The top soil shall temporarily be stored at earmarked site (s) only and it should not be kept unutilized for long (not more than 3 years). The top soil shall be used for land reclamation and plantation.
 - xxv. The over burden (OB) generated during the mining operation shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time and its phase –wise stabilization shall be carried out . Proper terracing of OB dump shall be carried out so that the overall slope shall not exceed 28^o Backfilling shall be done as per approved mining plan .Back-filling to start from 3rd year onwards of the mining operation & the entire quantity of waste generated shall be back filled & liquidated within five years .There shall be no external over-burden dumps after the 6th year of the mining operation. The back filled area should be afforested .Back-filling has to be done in a manner that it is restored to the normal ground level. Monitoring & management of rehabilitated areas should continue till the vegetation is established and become self generative. Compliance status to be reported to the appropriate authorities.
 - xxvi. 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.
 - xxvii. The critical parameters in the ambient air within the impact zone peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further quality of discharged water shall also be monitored [(TDS, DO ,Ph and Total Suspended Solids (TSS)].The monitored data shall be uploaded on the website of the company as well as displayed on a display board at a suitable location near the main gate of the company in public domain. The circular No. J-20012/1/2006-IA.(M) dated 27.05.2009 issued by Ministry of Environment & Forests, which is available on the website of the ministry www.envfor.nic.in shall also be referred in this regards for its compliance.
 - xxviii. A final Mine closure plan along with details of Corpus Fund shall be submitted to the SEIAA 5 years in advance of final mine closure for approval.

- xxix. The project proponent shall obtain necessary prior permission of the competent authorities for drawal of requisite quantity of water (surface water and ground water) required for the project.
- xxx. 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.
- xxxi. 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 Environmental Protection (EP) Act, 1986.

Member Secretary

Memo No _____/Dt. _____

Copy to

1. Ministry of Environment & Forests, Govt. of India, Paryavaran Bhawan, C.G.O Complex, Lodhi Road, New Delhi for kind information.
2. Principal Secretary, Forests & Environment Dept., Government of Odisha for kind information.
3. Chairman, State Pollution Control Board, 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, Chandrasekharpur, 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, Sundargarh 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.

Member Secretary