



सत्यमेव जयते

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

E-mail-seiaaorissa@gmail.com

Ref. No. SEIAA/ 598

Date 16.12.10

SEIAA – 94/10

From

Bhagirathi Behera, IFS
Director, Environment-cum-
Special Secretary to Govt.
& Member Secretary, SEIAA

To

Sri K.C. Pradhan
Plot No. 1262, Road – 8
Unit – IX, Bhubaneswar – 751022

Sub: Environmental Clearance for Nayagarh iron ore mine of Sri K.C. Pradhan over an area of 24.57 ha. at Nayagarh, Keonjhar for production of iron ore 80,000 TPA.

Sir,

This has reference to letter no. nil dated 30.10.2006 along with application for Terms of Reference (TOR) and the TOR issued by MOEF, Government of India vide their letter no. J-11015/412/2006-IA.II(M) dated 14th September 2007 and subsequent application vide letter no. Nayagarh/ENV/2010-269 dated 27.3.2010 Nayagarh/ENV/2010-270 dated 31.03.10 no. nil dated 16.10.2010, no. Nayagarh/ENV/2010-208 dated 21.10.2010 and Nayagarh/ENV/2010-210 dated 22.10.2010 for Environmental Clearance on the above mentioned subject, the State EIA Authority, Orissa has considered the application.

The proposal is for opening of a new mine for production of 80,000 TPA of iron ore. Additional terms of reference (TORs) for this project were prescribed on 14.09.07 by MOEF, Govt. of India for including in the EIA report already prepared. The mine lease of the project is 24.57 ha. out of which 22.794 ha is forest land. Forest clearance for diversion of 20.31 ha. of forest land has been obtained on 08.02.08. The mine working will be opencast by semi-mechanized method involving drilling and blasting.

Life of the mine is 33 years. Baiterni river flows at a distance of 3.5 km in the west direction from the mine lease. No National Park/ sanctuary /Elephant corridor is located within 10 km. of the mine lease. A map duly authenticated by DFO cum wildlife warden, Keonjhar division has been submitted in this regard. It is estimated that 0.238 million m³ of OB will be generated during the mine life. An area of 0.824 ha. has been earmarked for temporary storage of OB. Backfilling is proposed, which will start from 6th year and there will be no external OB dump at the end of the mine life. Water requirement is estimated as 20 m³/day which will be obtained from Baitarani river at a distance of 3.5 km. Ultimate working depth will be 541 m AMSL. The ground water table is 530 m AMSL during monsoon. Mine working will not intersect ground water table. The issues raised during public hearing on 20.03.2008 were also clarified. As per the post mine land use plantation will be raised in an area of 21.888 ha. The proposal was appraised before EAC of MOEF, Govt. of India on July 22-24th, 2008. The EAC observed that the approved mine plan is for a lease area of 27.794 ha. while the lease area of the mine is 24.57 ha. The EAC, therefore, desired that the mine plan should be modified and got approved for the proposed lease area. The EAC also decided that the recommendation on the project will be made after the approved mining plan for the proposed lease area of 24.57 ha. has been submitted by the proponent. The proponent submitted the approved mining plan as directed by EAC to them. But, they were told that in the meantime SEIAA & SEAC has already been formed and the file transferred to SEIAA, Orissa. The representative of M/s Geomin consultants, Bhubaneswar made a presentation on the proposal before SEAC, Orissa.

Based on information, document and clarification provided and on the recommendation of SEAC, the State EIA Authority hereby accords Environmental clearance in favour of the project for a period of 5 (five) years under the provisions of Environment Impact Assessment Notification, 2006 and 2009 and subsequent amendment thereto under various MOEF, Government 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 in core zone.
- iii) The applicant will comply to the points, concerns and issues raised by the people during public hearing on **24 July 2008** 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), Orissa 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 detail methodology adopted for analysis of samples shall be clearly indicated.
 - vii) The proponent shall submit ground tooting 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 buyer.
 - 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 corer 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, Orissa.
 - xiii) 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.
 - xiv) Rain water harvesting shall be undertaken to recharge the ground water source.
 - xv) 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, Orissa.

- xvi) 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.
- xvii) Trenches /garland drains shall be constructed at foot of dumps to arrest silt from being carried to water bodies. Adequate number of Check Dams 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.
- xviii) 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.
- xix) 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 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 conducted followed by follow up action wherever required. Occupational Health Centre shall be established near the mine site itself.
- xx) 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-filled & 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 your wise afforestation programme including rehabilitation of mined out area shall be submitted to the SEIAA, Orissa within six months.
- xxi) This Environmental Clearance is subject to forest clearance under the Forest (Conservation) Act, 1980.

- xxii) The mining operations shall be restricted to above ground water table and it should not intersect the groundwater table.
- xxiii) 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 topsoil shall be used for land reclamation and plantation.
- xxiv) 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° . 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 backfilled & liquidated within five years. There shall be no external over-burden dumps after the 6th year of the mining operation. The backfilled area shall 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 & becomes self-generating. Compliance status to be reported to the appropriate authorities.
- xxv) 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, Orissa.
- xxvi) The critical parameters such as SPM , RSPM, NOX 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 or the company as well as displayed on a display board at the project site at a suitable location near the main gate of the company in public domain. The circular at No. J-20012/1/2006-IA-II(M) dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.
- xxvii) 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.
- xxviii) The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and ground water) required for the project.
- xxix) 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.

xxx) 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.

2. This Environmental Clearance is subject to the grant/ approval/ sanction of mining lease by the competent Authority as required under law. The Environment Clearance will stand automatically cancelled if mining lease is not sanctioned or is cancelled.


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-110003 for kind information.
2. Principal Secretary to Govt., Forests & Environment Dept. Orissa for kind information.
3. Chairman, State Pollution Control Board, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-8, BBSR for kind information.
4. Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment & Forests, A-31, Government of India, Chandra Sekharpur, Bhubaneswar for kind information.
5. Chairman, Central Pollution Control Board, CBD-cum-office Complex, East Arjun Nagar, New Delhi, 110032 for kind information.
6. The District Collector & Magistrate, Keonjhar for kind information and necessary action.
7. Copy forwarded to the Chairman/ Member Secy. / Member, 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 records.

Sd-
Member Secretary



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. 3434/SEIAA

Dt. 30.05.2015

From

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

To

Sri K.C. Pradhan, Mines Owner,
Nayagarh Iron Ore Mines
Plot No. 1262, Road-8, Unit -IX,
Bhubaneswar -751022

Sub: Nayagarh Iron Ore Mines of Sri K.C. Pradhan at Village Nayagarh over an area of 24.57 ha. for production of iron ore 80,000 TPA in the district of Keonjhar, Odisha -Extension of Environmental Clearance regarding.

Sir,

With reference to your letter no. NAYAGARH/ENV./2015 dated 05.02.2015 on the above mentioned subject, I am directed to say that the State Environment Impact Assessment Authority, Odisha have considered the extension of time period of Environmental Clearance for the above project in its meeting held on 15.05.2015.

Considering the information/documents furnished by the project proponent, the State Expert Appraisal Committee (SEAC) after due considerations of the relevant documents submitted by the project proponent have recommended for extension of Environmental Clearance as per the directions of the Hon'ble High Court of Odisha in W.P.(C) No. 25211/2013 in favour of the project extended upto 30 years or the life of the mine whichever is less.

The SEIAA, Odisha after due consideration under the provisions of EIA Notification 2006 and 2009 and subsequent amendments thereto and as per the directions of the Hon'ble High Court of Odisha hereby grant extension of time period of Environmental Clearance in favour of the project extended upto 30 years or the life of

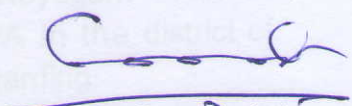
the mine whichever is less subject to the stipulated conditions remaining unaltered as given vide E.C letter no. 598/SEIAA dated 16.12.2010.

Yours faithfully,


Member Secretary

Memo No 3435/SEIAA /Dt. 30.05.2015
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. Additional Chief 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, Keonjhar 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