

**MINUTES OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL  
COMMITTEE, ORISSA HELD ON 21<sup>st</sup> & 22<sup>nd</sup> FEBRUARY, 2011**

The meeting of State Level Expert Appraisal Committee, Orissa was held on 21<sup>st</sup> & 22<sup>nd</sup> February, 2011 in the Conference Hall of Orissa State Pollution Control Board, Bhubaneswar at 11.00 AM. Sri Sasanka Sekhar Pattnaik, Member, SEAC Orissa chaired the meeting. The following members were present in the meeting.

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|--|---|--------|
| 1. Professor (Dr.) Swoyam Prakash Rout | - | Member |
| 2. Dr. Harekrishna Nayak,              | - | Member |
| 3. Dr. Moheshwar Patra,                | - | Member |
| 4. Sri Sasanka Sekhar Pattnaik,        | - | Member |
| 5. Prof. Kumar Das                     | - | Member |
| 6. Dr. R.C. Mohanty,                   | - | Member |
| 7. Dr. Surendra Nath Das,              | - | Member |

The following issues were discussed and decided :

1. Next meeting of the committee would be held on 29<sup>th</sup> & 30<sup>th</sup> March, 2011 for consideration of new proposals
2. The minutes of SEAC meeting held on 12<sup>th</sup> & 13<sup>th</sup> January 2011 and 25<sup>th</sup> January 2011 were confirmed by the members.

**3. CONSIDERATION OF OLD PROPOSALS**

**I) PROPOSAL OF M/S. ESSAR POWER LTD FOR 2X30 MW (PHASE I) COAL BASED CPP AT PARADEEP, DIST. JAGATSINGHPUR**

M/s. Essar Steel Orissa Limited (ESOL) is in the process of setting up of a 6 MTPA Integrated Steel Plant (ISP) including a 12 MTPA Pellet Plant at Paradeep, Kujang Tehsil, Jagatsinghpur District, Orissa . M/s Essar Power Ltd. (EPOL) has also proposed to set up 120 MW (4 x 30 MW) coal based CPP in two phases to partially cater to their power requirements. Out of this 120 MW project, MoEF Govt. of India already issued ToR for 2x30 MW (Phase I) vide letter No. F.NO. J-13012/76/2008 dt. 11.9.2008 and SEAC issued ToR for 2x30 MW

(Phase II) vide letter No. 220 dt. 22.1.10. The proposal is for environmental clearance of 2x30 MW (PHASE –I) coal based captive thermal power project at Paradeep in the district of Jagatsinghpur, Orissa. Land requirement is 50 acres. Water requirement is 256 m<sup>3</sup>/hr, which will be taken from Taladanda canal. The public hearing was held on 24<sup>th</sup> January 2010. The case was placed in the SEAC meeting held on 21<sup>st</sup> September 2010 and 30<sup>th</sup> Nov ,2010. The clarifications received in response to the observations of SEAC in its meeting held on 30<sup>th</sup> November, 2010 were verified by the committee.

Based on the information/document furnished, the SEAC recommended for grant of environmental clearance in favour of the project for a period of 5 (five) years with the following stipulated conditions.

1. 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.
2. 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.
3. The applicant will comply to the points, concerns and issues raised by the people during public hearing on 24<sup>th</sup> January 2010 in accordance with the commitments made by him thereon.
4. The applicant will take statutory clearance/approval/permissions from the concerned authorities in respect of his project as and when required.
5. 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 1<sup>st</sup> June and 1<sup>st</sup> December of each calendar year.
6. Land acquisition and transfer to EPOL should be complete in all respects before start of construction
7. High efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm<sup>3</sup>.
8. Excess water along with storm water during monsoon should not be discharged into the surrounding low lying area. The storm water shall be stored in reservoir and after treatment shall be used for dust suppression.

9. The storm water during monsoon will be collected in a pond and after appropriate treatment shall be stored in a reservoir for use in plantation, dust suppression etc. At no point of time the water will be discharged to surrounding areas.
10. Under no circumstances the process water shall be discharged to river Mahanadi. It should be properly treated, stored and 100% recycled in the process.
11. The DOWR, GoO may be apprised of the allocation of required amount of water from ESOL to EPOL and the purpose of use other than that already approved. A clearance to this effect may be produced before start of construction activity.
12. No ground water shall be extracted for the project work at any stage.
13. Details of fly ash utilization including low land filling. Long term leaching of harmful trace metals, especially in contact with higher saline environment has not been ensured yet. Therefore 100% utilization should be implemented as per fly ash notification for other uses like bricks, cement filter, building block etc.
14. The technical specification of AFBC system, lime requirement along with point of injection into the bed, peak temperature of combustion, SO<sub>2</sub> and NO<sub>x</sub> emission potential etc. from the manufacturer to ensure the pollution potential (both qualitative and quantitative) of the proposed project with respect to bed ash, fly ash, effluents, emissions etc. to be submitted to SEIAA before commissioning of the plant.
15. Storing of unutilized ash in a pond, filling up of low lying areas, use in road construction etc. should be as per Notification issued by MoEF for fly ash utilization and amended in 2009.
16. The proponent shall treat the flue gas through Flue Gas De-sulfurisation (FGD), if SO<sub>2</sub> emission level exceeds the prescribed norm.
17. Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.
18. Fly ash shall be collected in dry form and storage facility (silos) shall be provided. 100% fly ash utilization shall be ensured as per fly ash notification of MoEF, Govt. of India. Unutilized fly ash and bottom ash shall be stored in the ash pond separately through high concentration slurry disposal method. Mercury levels along with other heavy metals (Pb, Cr, As etc.) should be monitored in the fly ash / bottom ash, leachates and effluents emanating from the ash pond.
19. The ash pond should be constructed with impervious lining and ash pond embankment should be stone pitched.

20. The treated effluents conforming to the prescribed standards shall be re-circulated and reused within the plant. There shall be no discharge outside the plant boundary. Arrangements shall be made so that effluents and storm water do not get mixed.
21. A sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt/plantation.
22. Rainwater harvesting should be adopted. Central Groundwater 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, Orissa.
23. Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season. Details of these measures to be taken along with location plant layout shall be submitted to the SEIAA, Orissa.
24. Storage facilities for auxiliary liquid fuel such as LDO and/ HFO/LSHS shall be made in the plant area where risk is minimum. On site and off site Disaster Management Plans shall be prepared to meet any eventuality in case of an accident taking place. Mock drills shall be conducted regularly and based on the same, modifications required, if any shall be incorporated in the Disaster Management Plan (DMP). Sulfur content in the liquid fuel will not exceed 0.5%.
25. Regular monitoring of ground water in and around the ash pond area shall be carried out, records maintained and half yearly reports shall be furnished to the SEIAA, Orissa.
26. 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, Orissa.
27. First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
28. Noise levels emanating from turbines and air compressors shall be limited to 75 dBA. For people working in the high noise area, requisite personal protective equipments like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non noisy/less noisy areas.

29. Regular monitoring of ground level concentration of SO<sub>2</sub>, NO<sub>x</sub>, RSPM (PM<sub>10</sub> & PM<sub>2.5</sub>) etc. shall be carried out in the impact zone and records to be maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB, Orissa.
30. Provision shall be made for housing of construction 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.
31. A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
32. Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to the appropriate authorities.
33. Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported.
34. The need of the local people should be appropriately addressed in the CSR activities to be undertaken by the project proponent in the area. An action plan in this regard should be prepared and submitted to SEIAA, Orissa.
35. 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 clearance and attract action under the provisions of Environment Protection (EP) Act, 1986.

**II) FINAL APPRAISAL OF ORAGHAT IRON & MANGANESE MINES OF M/s. SYED ABDUL HALIM AT ORAGHAT FOR PRODUCTION OF IRON ORE OF CAPACITY 72,864 TPA AND MANGANESE ORE 7563 TPA OVER AN AREA 25.847 HA AT ORAGHAT , DIST – SUNDARGARH .**

The proposal is for production of iron ore of capacity 72,864 TPA and Manganese ore 7563 TPA. The mine lease area is 25.847 ha .The mine has also applied for one mobile crushing unit of 50 TPH capacity. The mining lease comprise DLC Forest land – 5.880 Ha. Mine working will be opencast semi-mechanized involving drilling and blasting.. The ultimate size of iron ore pit is 159365 m<sup>2</sup> and Manganese ore is 3652 m<sup>2</sup>. The mining scheme for the

proposed production capacity for the year 2008-09 to 2012-13 is approved by IBM vide letter dated 29.12.08. The life of the mine will be 6 years for iron ore and 5 years for manganese ore. The public hearing was conducted on **28.04.2010**.

The proposal was placed in the SEAC meeting held on 6<sup>th</sup> and 7<sup>th</sup> Dec, 2010. Considering the information furnished and presentation made by the consultant M/s Kalyani Laboratories Pvt. Ltd., Bhubaneswar, the committee decided to consider 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/document furnished, the SEAC recommended for grant of environmental clearance in favour of the project for a period of 5 (five) years with the following 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.
- iii) The applicant will comply to the points, concerns and issues raised by the people during public hearing on **28.04.2010** 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 1<sup>st</sup> June and 1<sup>st</sup> 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 settling 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, Orissa.
- 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, Orissa.
- 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 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.

- 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 the completion of the project.
- xx) 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.
- 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-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 year wise afforestation programme including rehabilitation of mined out area shall be submitted to the SEIAA, Orissa 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 topsoil 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<sup>o</sup> Backfilling shall be done as per approved mining plan. Back-filling to start from 3<sup>rd</sup> 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 6<sup>th</sup> 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.

- 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, Orissa.
- xxvi) 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 the project site at a suitable location near the main gate of the Company in public domain. The circular 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](http://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 drawal 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.

**III) AMENDMENT OF TERMS OF REFERENCE (TOR) FOR PREPARATION OF ENVIRONMENTAL IMPACT ASSESSMENT REPORT (EIA) FOR NUAGAON MANGANESE MINE OF M/S TARINI MINERALS OVER MINE LEASE AREA 7.85 HA FOR ENHANCEMENT OF PRODUCTION CAPACITY OF MANGANESE ORE UPTO 12,500 TPA AT: NUAGAON, DIST: SUNDERGARH**

Terms of Reference (TOR) has been issued to the proposal vide No. 404. DT.21.7.10 . In the TOR the production capacity of the manganese ore inadvertently mentioned as 12000TPA in place of 12500 TPA. The proponent has requested to amend the TOR. The committee opined to amend the TOR and

intimate the proponent that TOR issued is valid for Nuagaon Manganese Mine over Mine Lease Area 7.85 Ha for enhancement of production capacity of Manganese ore upto 12,500 TPA.

#### **4. SCREENING OF NEW PROPOSALS**

##### **1. Proposal for production of graphite ore 50000 TPA over an area 27.102 ha at Hardatal village in the district of Bargarh of Hardatal Graphite Mines by Sri Kanheylal Sharma.(TOR)**

The proponent is required to submit the following for consideration

- i) The Pre-feasibility report should be submitted as per the guidelines of the MoEF, Govt. of India office memorandum No. J-11013/41/2006-IAII(I)Dated: 30.12.2010
- ii) Status of mining lease
- iii) Status of permission of drawal of water
- iv) A nallah is passing in the ML area which divide ML area into 2 parts. Detailed steps proposed to divert protect nallah.
- v) Proposal for Green belt
- vi) Whether crushing and screening facilities are included
- vii) Proposal of Environmental Management Plan and CSR activities
- viii) TOR should include AAQ Notification dt.18.11.09

##### **2. Proposal for production of graphite ore 30000 TPA over an area of 35.187 Ha at Mahanilaha village in the district of Balangir of M/s. Mahanilaha graphite mines.(TOR)**

The proponent is required to submit the following for consideration

- i) The pre-feasibility report should be submitted as per the guidelines of the MoEF, Govt. of India office memorandum No. J-11013/41/2006-IAII(I)Dated: 30.12.2010
- ii) Status of mining lease
- iii) Copy of approved mining & mine closure plan ( Geological / Proven / Mineable Reserve, if ascertained)
- iv) Status of permission for drawal of water
- v) Environmental status of existing mine including base line data and CSR Activities.
- vi) Agricultural land acquisition status

**3. Proposal for cement grinding unit of 1.0 MTPA by Binani Cement at Gobarghati Duburi in the district of Jajpur, Orissa of M/s. Mr. Srinibash Singh (TOR)**

The proponent is required to submit the following for consideration

- i) The pre-feasibility report should be submitted as per the guidelines of the MoEF, Govt. of India office memorandum No. J-11013/41/2006-IAII(I) Dated: 30.12.2010
- ii) Industrial registration certificate
- iii) Details of proposed APC measures
- iv) Power requirement and agreement with GRIDCO
- v) Permission status of water drawal
- vi) Land required for the proposed plant
- vii) Land use break up
- viii) Location map along with topography map, contour map etc.

**4. Proposal for setting petroleum oil terminal at Jharsuguda by M/s. Indian Oil Corporation.(EC)**

The proponent is required to submit the following for consideration

- i) Proof of location within industrial area
- ii) Point wise compliance to TOR
- iii) Filled-in questionnaire
- iv) Status of petroleum pipeline from Paradeep may be clarified
- v) REIA has been done only for one month i.e. Dec .09 which is not sufficient to study environmental parameters .The study is not carried out at least for three months(One Season) before or beyond the monsoon
- vi) The population density not with standing, the total and fecal coliform counts in the surface water(Page 27 ) appears to be high and remarkable, while the BOD data are negligible, which is contradictory. Besides, the dissolved oxygen concentration which is an important indicator has not been studied at all.
- vii) It is said only some herbs and shrubs are found in the area while the study area has sizeable forest and agricultural land. This report on plants present must be shown.
- viii) The EMP is not done in scientific manner to indicate the environment loss , damage and repair.

**5. Production of 10050 MTPA graphite ore and installation of beneficiation plant of 50 TPH capacity over an area of 14.654 ha of M/s. Temrimal Graphite Ore Mines at Temrimal in the district of Bargarh of Prabhash Chandra Agrawal.(TOR)**

The proponent is required to submit the following for consideration

- i) The pre-feasibility report should be submitted as per the guidelines of the MoEF, Govt. of India office memorandum No. J-11013/41/2006-IAII(I)Dated: 30.12.2010
- ii) Status of mining lease
- iii) Copy of approved mining plan.
- iv) Process technology of beneficiation plant
- v) Waste management plan
- vi) Source of water and permission status
- vii) Proposed pollution control measures
- viii) Environmental status of existing mine including base line data and CSR Activities.
- ix) The lease period is 1978 -98. Since this is a deemed Mining lease for which EC is applied. Progressive Mining Closure plan is for 5 years for 2008-09 to 2012 -13. It is not clear the detail of broken up area of mining between 1978-98 to 2008-09.
- x) Since there are no forest area need clarification in regard to DLC forest if any.
- xi) Indication of migratory route / wildlife if any may be clarified by State Forest Department

**6. Production of 10050 MTPA graphite ore and installation of beneficiation plant of 50 TPH capacity over an area of 36.033 ha of M/s. Temrimal Graphite Ore Mines at Temrimal in the district of Bargarh of Prabhash Chandra Agrawal.(TOR)**

The proponent is required to submit the following for consideration

- i) The pre-feasibility report should be submitted as per the guidelines of the MoEF, Govt. of India office memorandum No. J-11013/41/2006-IAII(I)Dated: 30.12.2010
- ii) Status of mining lease.
- iii) Process technology of beneficiation plant
- iv) Waste and dump management plan
- v) Source of water and permission status
- vi) Proposed pollution control measures
- vii) Environmental status of existing mine including base line data and CSR Activities.
- viii) Lease status why applied for three separate plans
- ix) Mine closure plan
- x) Proposal green belt

**7. Production of 10050 MTPA graphite ore and installation of beneficiation plant of 50 TPH capacity over an area of 11.149 ha of M/s. Temrimal Graphite Ore Mines at Temrimal in the district of Bargarh of Prabhash Chandra Agrawal. (TOR)**

The proponent is required to submit the following for consideration

- i) The pre-feasibility report should be submitted as per the guidelines of the MoEF, Govt. of India office memorandum No. J-11013/41/2006-IAII(I) Dated: 30.12.2010
- ii) Status of mining lease.
- iii) Copy of approved mining plan.
- iv) Process technology of beneficiation plant
- v) Waste and dump management plan
- vi) Source of water and permission status
- vii) Proposed pollution control measures.
- viii) Environmental status of existing mine including base line data and CSR Activities.

**( DR. HAREKRISHNA NAYAK )  
MEMBER, SEAC**

**( DR. MOHESHWAR PATRA )  
MEMBER, SEAC**

**(SRI SASANKA SEKHAR PATNAIK)  
MEMBER, SEAC**

**( DR. R. C. MOHANTY )  
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**(DR. SWOYAM PRAKASH ROUT)  
MEMBER, SEAC**

**(PROF. KUMAR DAS )  
MEMBER, SEAC**

**( DR. S. N. DAS )  
MEMBER, SEAC**

**( SRI S. DAS )  
SECRETARY, SEAC**

