

**MINUTES OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL
COMMITTEE, ORISSA HELD ON 29TH & 30TH, MARCH, 2011**

The meeting of State Level Expert Appraisal Committee, Orissa was held during **29th & 30th March, 2011** in the Conference Hall of Orissa State Pollution Control Board, Bhubaneswar at 11.00 AM. Sri Sasanka Sekhar Patnaik, Member, SEAC Orissa chaired the meeting. The following members were present in the meeting.

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

The following issues were discussed and decided.

1. Next meeting of the committee will be held on 25th & 26th April, 2011 for consideration of new and old proposals.
2. Next meeting of the committee will be held on 16th April, 2011 for finalization of minutes of the meeting held on 29th & 30th March, 2011.

The agenda-wise proceedings and recommendations of the committee are detailed below:

ITEM NO. 1:

PROPOSAL FOR PRODUCTION OF GRAPHITE ORE 50000 TPA OVER AN AREA 27.102 HA AT HARDATAL VILLAGE IN THE DISTRICT OF BARGARH BY HARDATAL GRAPHITE MINES BY SRI KANHEYALAL SHARMA (TOR)

The proposal was considered by the SEAC to determine the Terms of Reference (TOR) for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA notification, 2006. Project proponent had submitted information in the prescribed format (Form-I) along with pre-feasibility report. According to the Form-I and presentations made by the consultant M/s Earth and Environment, BBSR the proposal is for production of Graphite ORE 50000 TPA over an area 27.102 HA. AT Hardatal village in the District of Bargarh by Hardatal Graphite Mines of Sri Kanheyalal Sharma. The modification of approved mining plan for increase in production of 50,000 TPA Graphite alongwith beneficiation plant has been approved by IBM on 28.3.11. The water requirement is 65 KLD and source is ground water .

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The Committee observed the following.

1. The proponent has intimated during presentation that the present proposal also includes beneficiation plant. But as per the Form –I, the proposal is only for production of graphite ore 50000 TPA over an area 27.102 ha at Hardatal village in the district of Bargarh by Hardatal graphite mines of Sri Kanheyalal Sharma.
2. The pre-feasibility report is not prepared as per the guidelines of the MoEF, Govt. of India office memorandum No. J-11013/41/2006-IAII(I) dt. 30.12.2010 and clear maps and images are not furnished in the pre feasibility report.
3. Detailed proposal of beneficiation plant with detailed technology has not been included in Form – I.
4. **It was decided to return the proposal to SEIAA to ask the proponent to modify the application Form – I and resubmit to SEIAA including the proposal of beneficiation plant with other requisite documents and pre-feasibility report duly prepared.**

ITEM NO. 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 intimated that the concerned person dealing with the project was not available for the presentation and requested to defer the case to next meeting. The committee decided to defer the case as per request of the proponent.

ITEM NO. 3:

PROPOSAL FOR CEMENT GRINDING UNIT OF 1.0 MTPA BY BINANI CEMENT AT GOBARGHATI DUBURI IN THE DISTRICT OF JAJPUR, (TOR).

The project proponent submitted prescribed Form -1 and pre-feasibility report along with the draft TORs. It's a proposed project for a Cement Grinding unit of capacity 1.0 MTPA of Binani cement At Gobarghati, Duburi in the district of Jajpur. Clinker will be Imported from Binani's own plant at China , gypsum will be transported from PPL, Paradeep & fly ash will be transported from CPP of IMFA Choudwar . The total cost of the combined project is Rs. 141 Crores. The land required is 60 Ac. Total water requirement is 240 KLD. Source of water is IDCO supply system based on the information furnished and presentation made by the consultant, **M/s. VISIONTEK CONSULTANCY SERVICES PVT. LTD.**, Bhubaneswar, the SEAC prescribed the following TORs for undertaking detailed EIA study.

- 1 Present land use of study area for 10 Km radius should be included.
- 2 One season (other than monsoon) site-specific meteorological data shall be provided. The AAQ data for the period may be given along with the dates of monitoring. The parameters to be covered shall include PM10, PM 2.5 , SO₂ NO_x and Ozone (ground level). The location of the monitoring stations should be so decided as to take into consideration the predominant downwind direction,

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- population zone and sensitive receptors including reserved forests. There should be at least one monitoring station in the upwind direction.
- 3 Collection of baseline data on air, water, land, noise, flora, fauna etc. for one season other than monsoon.
 - 4 Ambient air quality monitoring modeling for cement grinding unit
 - 5 Sources of secondary emissions, its control and monitoring as per the CPCB guidelines.
 - 6 Necessary clearance from the Competent Authority for drawal of requisite quantity of water for the project should be provided.
 - 7 Site-specific micro-meteorological data including inversion height and mixing height
 - 8 Water balance cycle data including quantity of effluent to be generated, recycled and reused and discharged.
 - 9 Efforts made to minimize use of ground water. An action plan should be provided. Ground water monitoring minimum at 8 locations.
 - 10 Action plan for surface as well as roof top rainwater harvesting and ground water recharge.
 - 11 Scheme of proper storage and handling of ash, gypsum and clinker.
 - 12 Fugitive emissions and control technologies should be provided.
 - 13 Impact of transportation of raw materials and the details of mitigation measures should be included.
 - 14 The proponent shall clarify the extent of production of OPC/PPC/PSC grade cement in their works and in which grade the fly ash is proposed to be used and to what extent.
 - 15 Land requirement for the project to be optimized. Item-wise break up of land requirement and its availability to be furnished .
 - 16 Details of rainwater harvesting and how it will be used in the plant shall be provided. Water conservation measures proposed in different units of operation of the project should also be given. Quantity of water requirement for the project should be optimized. Details of water balance taking into account reuse and re-circulation of effluents may be provided.
 - 17 Risk assessment should be carried out. It should take into account the maximum inventory of storage at site at any point in time. The risk contours should be plotted on the plant layout map clearly showing which of the proposed activities would be affected in case of an accident taking place. Based on the same, proposed safeguard measures should be provided.
 - 18 Occupational health impact and remedial measures of the project may be studied.
 - 19 Socio-economic impacts due to project activity are to be assessed and based on the study. Developmental activities proposed to be undertaken by the project proponent to be specified. As far as possible, quantitative dimension to be given. Study should include Corporate Social Responsibility (CSR).
 - 20 Green belt (33%) development plan as per CPCB guidelines. EMP should include a clear map for plantation/green belt.
 - 21 Details of location of wildlife sanctuary and national parks within 10 km radius of the plant and plan for conservation and protection of the same should be included.
 - 22 Detailed Environment Management Plan (EMP) with specific reference to details

- of air pollution control system, water & wastewater management, monitoring frequency, responsibility and time bound implementation plan for mitigation measure should be provided along with Environment Monitoring Programme.
- 23 EMP should include the concept of waste-minimisation, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.
- 24 Any litigation pending against the project and /or any direction /order passed by any Court of Law against the project, if so, details thereof should be provided.
- 25 The EIA report should includes the specified methodology to be adopted for collection and analysis of 12 air quality parameters as per the Central Pollution Control Board Notification No. B-29016/20/90/PCI-L dated 18th November 2009 published in the Gazette of India Part III-Section 4 No 217 Extraordinary. The analytical methods to be followed is specified in the above notification and to maintain the New National Ambient Air Quality Standards.
- 26 **This Terms of References (TORs) is valid for a period of two years from the date of issue of TORs for submission of the EIA/EMP report after public consultation.(This is in conformity with the MoEF, Govt. of India office memorandum No. J-11013/41/2006-IAII(I) dt. 22.3.10).**
The SEAC also decided that public hearing might be exempted as per section 7(III) (b) of EIA Notification, 2006 subject to receipt of a copy of the notification regarding location of the project in the notified industrial Estate /park of IDCO from the project proponent. If the proponent fails to produce the same, public hearing shall be conducted as per EIA Notification 2006.

ITEM NO. 4:

FINAL APPRAISAL FOR EC FOR SETTING OF PETROLEUM OIL TERMINAL AT JHARSUGUDA BY M/S. INDIAN OIL CORPORATION (EC).

M/s Indian Oil Corporation Limited have proposed for a Petroleum Oil Lubricant (POL) terminal at Jharsuguda as a combined resitement of existing Depots at Sambalpur and Rourkela with total tankage of 49229 Kls and allied facilities with hook up to the Paradeep- Ranchi Pipeline (PRPL). This terminal project is proposed to be executed in two phases :

Phase I : To receive white oils like MS, HSD and SKO through hook up from Paradeep – Ranchi Pipeline and despatch by road through Tank Lorries.

Phase II: To receive Furnace Oil by Tank wagons despatch by road through Tank Lorries, by augmenting facilities like Railway siding, FO tankage (4596 Kls) and gantry.

Details of storage capacity of tankages are given below:

Product	No. of tanks	Type	Capacity
MS	3	FRVT	12618 KLS (1X2212 KL & 2 X 5203 KL)
HSD	4	CRVT	30688 KLS (4X 7672 Kls)
SKO	2	CRVT	5723 Kls (1X2301KL & 1X 3422 KL)
Ethanol	1	U/G	200 KL

The land for the terminal is 37.54 Acres on the outskirts of Jharsuguda and has been procured from M/s. IDCO (Industrial Development Corporation) at Jharsuguda town. SEAC issued ToR to the unit vide letter No. 208 dt. 22.12.09.

The proponent applied for final appraisal to SEIAA, Odisha without relevant document that the proposed site is within the industrial area or proceeding of public hearing. The proponent also failed to furnish supportive documents that the proposed site is located within the notified industrial estate as claimed by the project proponent and other basic information /document as sought vide letter No 155 dt. 9.3.11 at the time of presentation.

After detailed deliberations, it was decided to return the proposal to SEIAA, Orissa to ask the proponent to conduct public hearing and apply afresh along with proceeding of public hearing for consideration of Environmental Clearance .

ITEM NO. 5:

PROPOSAL FOR PRODUCTION OF IRON ORE 300300 TPA OVER AN AREA 15.074 HA FROM ADAGHAT IRON ORE MINE AT ADAGHAT, KOIRA, SUNDARGARH OF M/S. NATIONAL ENTERPRISES (TOR).

The proposal was considered by the SEAC to determine the Terms of Reference (TOR) for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA notification, 2006. Project proponent had submitted information in the prescribed format (Form-I) along with pre-feasibility report. According to the Form-I and presentations made by the proponent, the proposal is for production of IRON ORE 3,00,300 TPA over an area 15.074 HA . At: Adaghat, Ps: Koira, Sub-division: Bonai, Dist-Sundergarh. Odisha State Govt. vide letter No. 12730/SM dated 20.10.2000 has conditionally granted Adaghat Iron Ore Deposit over an area of 15.074 for mining of Iron Ore for a period of twenty (20) years in favour of M/s National Enterprises. There is no forest land in the lease area. The mining plan was approved by Indian Bureau Mines (IBM), Govt. of India vide their letter no. MPM/OTF-MECH/14-ORI/BHU/2010-11 dated 27-09-2010. The mine working will be opencast semi mechanized. The water requirement is 13 KLD .

Considering the information furnished and presentation made by the consultant M/s. **Centre For Envotech & Management Consultancy Pvt. Ltd.** , Bhubaneswar, on behalf of the proponent , the SEAC prescribed the following TORs for undertaking detailed EIA study:

1. Introduction

- Profile of the project proponent and background to establish the financial and entrepreneurial competency to undertake the project.
- Genesis and objectives of the project.

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- Brief description of nature, size, location of the project and its need and importance to the region and country's economic development and end use/value addition (if any) of the mined minerals.
- Past performance records including environmental protection measures for existing industries seeking expansion.
- Status and stage of regulatory clearances like approval of mining plan, forestry clearance and other statutory clearances (water use) essential before starting mining activities.
- Litigation / court case, if any, pending relating to the project.

2. Project Description

- A site map to 1:50,000 scale, presenting project location and recent features of the area (core zone and buffer zone) with the help of satellite imagery (NRSA) showing relevant details like habitation, forest, water bodies, drainage pattern including contours at not more than 15 meters scale, heritage sites, and environmentally sensitive objects and areas such as, reserve / protected forest, national park, sanctuary, biosphere reserve, elephant / tiger sanctuaries / migrating corridors etc.
- Mining area dimensions, year wise mining plan, production of over burden (OB) and OB dump sites, conceptual mine plan for every five years period for the life of mine, mine closure plan and production capacity both present and planned, land use pattern.
- **Details of Mining**
Estimation of probable/estimated mineral reserves, Method of Mining, proposed working depths, proposed manpower, employment product size and reduction if any sound pollution due to mining activities, blasting control measures, OB solid waste with quantity and angle of repose, authenticated ground water contour plan (both pre and post monsoon), impact of mining on hydrology of core and buffer zones intersecting ground water level & optimal utilization/value addition utilization of the associated minerals, steps to ensure through beneficiation process.

3. Air Environment (for Core and Buffer Zone)

a) Baseline Status

- Climate and Metrological baseline data obtained from the nearest IMD station for the area (core and buffer zone).
- Location (distance and direction) of monitoring stations considering environmentally / ecologically sensitive areas.
- Climatological data in respect of temperature, humidity, wind speed and direction, wind rose and rainfall for the study period (03 months non-monsoon season).
- Air pollutants such as: SPM, RSPM, SO₂, NO_x, CO traces of heavy metals (Fe, Mn, Pb) etc. in core and buffer zone as per CPCB specifications (NAAQS).

- Existing and expected fugitive emissions in and around the area of mining transport, stacking, ore processing/ beneficiation and their impact on flora and fauna of the region.
- Impact of fugitive emissions on flora and fauna.

b) Anticipated Impacts

- Prediction of impacts on ambient air quality using appropriate mathematical models (ISCST or FDM models).
- Existing air quality data and prediction of emissions of SPM, RSPM, SO₂, NO_x, CO to be presented in tabular form.

Sl. No	Location of Monitoring station (Name, Distance & Directions)	Background level	Predicted concentration	Resultant concentration	Air quality standard

c) Proposed Mitigating Measures

- Mitigating measures to lower the emissions of pollutants and to maintain the air quality.
- Mitigating measures to contain impact of fugitive emissions on flora and fauna.
- Scientific ore mining/ handling/transport methods to reduce the dust emissions from point and other likely sources.

4. Noise Environment

a) Baseline Status

- Day time and night time noise levels.
- Noise levels, i.e. Leq.(day) and Leq.(night) for each station in core zone and buffer zone along with applicable standards.
- Noise levels due to mining activities, ore processing units, beneficiation plant and transportation routes separately.
- Vibrations caused due to blasting operations.
- Locations of monitoring stations in accordance with direction and distance from the source preferably at the same air quality monitoring sites.

b) Anticipated Impacts

- Impacts of vibrations on the surrounding environment including damage to materials and structures.

- Impacts due to noise levels generated by existing and proposed activities in relation to human environment and wild life including avi-fauna.
- Impacts due to present and future surface transportation activities by road/rail / conveyor belt, if any.
- Impact of noise levels an auditory function, i.e. hearing activity.

c) Proposed Mitigating Measures

- Identification and adoption of mitigating measures for noise abatement including noise barriers for point sources and line sources; Regular maintenance of machineries/vehicles for noise reduction.
- Measures to minimize effect of vibration due to blasting.
- Evaluation of adequacy of the proposed pollution control devices periodically to minimize occupational exposure and to suggest modifications, if any, as a continuous process.

5. Water Environment

a) Baseline Status:

- Rainfall, runoff and sedimentation data from nearby reputed institution including IMD station should be collected.
- Details of existing water bodies like rivers, nallahs, lakes, springs and reservoirs etc. within core and buffer zones and likely to be changes in drainage pattern created due to mining.
- Physico-chemical, biological, bacteriological and radiological characterization of surface and ground water both upstream and downstream with reference to mining lease area.
- Authenticated ground water level of the area and if mining will be intersecting ground water, indicate radius of influence from the mine pit.
- Ground water recharge potential including rain water harvesting, recharge and water balance of the area for present and future use.
- Water requirement and waste water production from mine lease area, mining township, ore processing and beneficiation plants and other facilities.
- Waste water treatment, recycling and reuse of effluent.

b) Anticipated Impacts:

- Impact on water sources due to shifting of water courses, if any.
- Impact of water withdrawal on surface water / ground water.
- Impact of mining on hydrology with special reference to a situation when mining will intersect ground water.
- Impact on withdrawal of surface / ground water below the threshold level of replenishment.
- Impact of mining activities including tailing ponds on surface and ground water quality.

c) **Proposed Mitigating Measures**

- Model study for prediction of ground water contamination and suggested mitigating measures to minimize the pollution level.
- Construction of gully checks, check dams, sedimentation ponds, settling tanks, water retaining walls and weirs, subsequent treatment and recycle.
- Management of waste water sources, viz. industries, workshop, township etc. to contain the adverse impact on water resources in core and buffer zones.
- Details of mitigation steps to contain adverse impacts on water table in case of mining intersecting ground water.
- Construction of rain water harvesting structures and treatment before recharge/reuse to maintain the water level.
- Steps to make use of the existing water bodies and water bodies likely to be created as a result of mining activity both in core and buffer zones by fishiculture, irrigation and recreational facilities.

6. **Land Environment**

a) **Baseline Status**

- Collection of soil samples from monitoring stations, their textures, physico-chemical and micro biological characterization, water holding capacity, porosity, toxic contaminants and sodium absorption ratio (SAR) for both core and buffer zone.
- Study of pre-mining land use pattern, cropping pattern, vegetation cover etc. using remote sensing techniques (if available) and ground truthing and through secondary data sources.
- Determination of leaching properties of OB samples to define the load of heavy metal pollutants on runoff water.

b) **Anticipated Impacts**

- Estimation of anticipated impacts of proposed mining activity on topography, water drainage pattern, land use pattern with respect to agriculture, forestry and fisheries.
- Impact of leachate water from overburden on surface and ground water quality.
- Impact of mining activity on the fertility status of soil in the study area.
- Prediction of ground water pollution due to seepage of pollutants through soil column.
- Impact of mining on local biodiversity and forest cover.

c) **Proposed Mitigating Measures**

- Scientific mining methods to mitigate the impacts of mining activity on land resource.
- Delineation of mine closure plan to rehabilitate the mined out land to restore its earlier land use pattern.

- Model study for potential soil erosion from core and buffer zones for planning preventive measures.
- Methods for treatment and disposal of domestic solid wastes.
- Selection of suitable local plant species for green belt development in and around mine sites, ore processing plant and beneficiation plant and also an overburden dump sites and workers colony.
- Top soil conservation plan and its reutilization depending on its quality.

7. Biological Environment:

a) Baseline Status

- Biodiversity (terrestrial and aquatic).
- Assessment of plant species with respect to dominance, density, frequency and **abundance** within the study area.
- Collection of primary data through field survey and authenticated secondary data on fauna including avi-fauna indicating endangered and endemic species, if any, with scientific and local name as per the schedule of Wild Life (protection) Act.
- Information on the dependence of the local people on minor forest produce and their cattle grazing rights in the forest land.
- Collection of secondary data on fishery, agriculture, crops and irrigation facility in the study area.
- Existence of National Park, Sanctuary, Biosphere Reserve, Tiger/Elephant Reserve migratory corridor in the study area / buffer zone to be shown in the site map.
- Estimation of number and types of trees and shrubs which would be cut during deforestation for mining activity and other facility.
- Photographs showing vegetation cover before and after mining in case of ongoing mining activities and existing vegetation in case of new mine.

b) Anticipated Impacts:

- Impact of mining activities on forest resources, terrestrial and aquatic biodiversity, wildlife including avi-fauna, migratory corridors, endangered species and important and medicinal plants.
- Assessment of likely damage to flora and fauna due to air emissions, noise and vibrations, vehicular movements, waste water discharges, and change in land use pattern.

c) Proposed Mitigating Measures :

- Afforestation greenbelt development of reclaimed mined out areas, composite of grass, shrubs and trees of native variety.
- Stabilization of mining benches and overburdens by development of vegetation cover over them.
- Scientific conservation plan for protection and conservation of flora, fauna including endangered species of the area.

- Delineation and implementation of pollution control measures with respect to air emissions, noise and vibrations, vehicular movements and waste water discharges etc. impacting biotic environment.

8. Socio – Economic Environment :

a) Baseline Status :

- Demographic survey and collection of baseline data on human settlement, health and education status of the community and existing infrastructural facilities for social welfare including sources of livelihood job opportunities, agriculture and forest products etc. of the area (Core Zone and Buffer Zone).
- Socio economic profile of the people within 2,5 and 10 kms of buffer zone.

b) Anticipated Impacts :

- Impacts of the mining activities on the cropping pattern and crop productivity within 2km of the core zone on the sources of livelihood and land holding of the people, on the cattle grazing lands and access to the roads frequented by them and possible migration/displacement of people.

c) Proposed Mitigating Measures

- Corporate Social Responsibility (CSR) should not be treated only as philanthropy, rather it should be the corporate mission and individual social responsibility of the project proponent. They should be a partner in the regional development
- Mitigating measures should take into account the needs of the people of the area based on primary data as obtained through Need Assessment Survey / Study (NAS). Certain welfare schemes can be dovetailed with identical / related/ similar schemes being executed by various Govt. departments / agencies in the area.
- Adequate compensation should be given to the people for loss of land / loss of crops loss of surface rights due to mining activities.
- Details of employment potential – skilled, semi-skilled and un-skilled.

9. Occupational Health Environment

a) Baseline Status

- Primary / secondary data through field survey of the existing prevalent diseases in the locality and facilities for treatment.
- Number of likely hazardous operations/ jobs / activities to be identified and the number of workers to be employed in such jobs and the duration to be indicated.

b) Anticipated Impacts

- The list of anticipated occupational diseases due to hazardous exposures, such as silicosis, tuberculosis, pulmonary and lungs diseases etc. to be indicated.

c) Proposed Mitigating Measures

- Education and training to the workers about their safety and various occupational health risks and to ensure the use of personal protective equipments and steps for prevention and control of risks.
- Employment of trained doctors in occupational health risks and arrangement of referral facilities for the mine workers.
- Responsibility to compensate the workers for health impairment due to injuries or illness and provision for health insurance for the mine workers.
- Adequate budget provision for environmental and occupational health hazardous.

10. Additional Studies

- Public consultation (during EIA study as well as public hearing) with the issues raised by the public and response of the project proponent to be given in tabular form.
- Risk assessment and disaster management plan to be prepared. Risk assessment should be done covering the aspects, such as roof – fall inside the mine, surface subsidence, inundation, failure of mine benches, surface fire, accidents due to explosives, earth moving machinery and blasting etc.

11. Environment Management Plan (EMP) and Post-Project Monitoring Programme

- Description of the administrative and technical set-up, i.e. EMP implementation organizational structure for ensuring that mitigative measures are implemented and their effectiveness monitored after obtaining environmental clearance from the State Level Environmental Impact Assessment Authority (SEIAA).
- Environment management plan of the mining lease area on 1:50,000 scale within 500 meters of the boundary and contour lines at 10 meters intervals, indicating all surface features, area occupied by mine workings, area deforested, area covered by dumps (with height), processing plant, surface buildings, mining workshop, area reclaimed and afforested and course of discharge of mine water.
- Post project hydro-geological monitoring for entire mine life, restrictive monitoring thereafter during reclamation for collection of hydro-geological and hydrological data.
- Plantation monitoring programme during post-project period for ensuring survival and growth rate of plantations in reclaimed area.
- Delineation of technical aspects of environmental monitoring to examine the effectiveness of the adopted EMP and scientific mining measures (including measurement methodologies, frequency, location, data analysis, reporting schedules emergency procedures, detailed budget and procurement schedules) and to take corrective steps, if necessary.

12. Executive Summary / Summary EIA

The executive summary shall consist of gist of all relevant details chapter-wise of the EIA report and EMP. The executive summary will give a prima-facie idea about the objectives of the project, ore/OB to be generated and end use/value addition, anticipated environmental impacts of the project activities on ambient air, water land, noise and bio-diversity their impacts and mitigating measures thereto, socio-economic aspects of the area and corporate social responsibility (CSR) and Environment Management Plan (EMP). It should be co-related to the details given in EIA report and EMP. It should be precise and self sufficient and condensed to ten A-4 size pages at the maximum.

13. The EIA report should includes the specified methodology to be adopted for collection and analysis of 12 air quality parameters as per the Central Pollution Control Board Notification No. B-29016/20/90/PCI-L dated 18th November 2009 published in the Gazette of India Part III-Section 4 No 217 Extraordinary. The analytical methods to be followed are specified in the above notification and to maintain the New National Ambient Air Quality Standards.
14. **This Terms of References (TORs) is valid for a period of two years from the date of issue of TORs for submission of the EIA/EMP report after public consultation.(This is in confirmation with the MoEF, Govt. of India office memorandum No. J-11013/41/2006-IA(I) dt. 22.3.10).**

ITEM NO. 6:

PROPOSAL FOR PRODUCTION OF IRON ORE 325152 TPA OVER AN AREA 41.144 HA FROM SAGASAH I IRON ORE DEPOSIT AT SAGASAH I, SUNDARGARH OF M/S. NATIONAL ENTERPRISES

The proposal was considered by the SEAC to determine the Terms of Reference (TOR) for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA notification, 2006. Project proponent had submitted information in the prescribed format (Form-I) along with pre-feasibility report. According to the Form-I and presentations made by the proponent, the proposal is for production of Iron ore **325152** TPA over an area **41.144** HA . At: Sagasahi, Ps: Koira, Sub-division: Bonai, Dist-Sundergarh . Orissa State Govt. vide letter No. 11824/SM dated 24.12.1997 has conditionally granted Sagasahi Iron Ore Deposit over an area of 41.144 for mining of Iron Ore for a period of twenty (20) years in favour of M/s National Enterprises. Modified mining plan has been approved by Regional Controller of Mines, Indian Bureau of Mines MPM/OTF-MECH/15-ORI/BHU/2010-11 dated 27-09-2010. Stage-I Forest clearance has been approved by MoEF, Gol vide letter no-8(21)25/2003-FCE dated 8th September 2005. The mine working will be opencast semi mechanized. The water requirement is 14 KLD.

Considering the information furnished and presentation made by the consultant M/s. **Centre For Envotech & Management Consultancy Pvt. Ltd.** , Bhubaneswar on behalf of the proponent, the SEAC opined that as per the **circular No. J-11015/200/2008-IA.II(M) dt. 31.03.11** the ToR will be considered after receipt of stage –I forest clearance. Although the proponent has intimated that it was obtained Stage –I clearance in 2005 but copy of the same is not submitted. It was decided TOR would be

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issued as per model TOR applicable to Mine after receipt of copy of stage –I forest clearance

ITEM NO. 7:

PRODUCTION OF 10050 MTPA GRAPHITE ORE AND INSTALLATION OF BENEFICIATION PLANT OF 50 TPH CAPACITY OVER AN AREA OF 14.654 HA AT TEMRIMAL IN THE DISTRICT OF BARGATH OF PRABHASH CHANDRA AGRAWAL

The proposal was considered by the SEAC to determine the Terms of Reference (TOR) for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA notification, 2006. Project proponent had submitted information in the prescribed format (Form-I) along with pre-feasibility report. It's a proposed graphite mining project **over lease area 14.654 ha. to produce graphite ore up to 10050 Ton/Annum and installation of beneficiation plant of capacity 50 TPH, at-Temrimal, Paikmal, in Bargarh district . Renewal of mining plan approved on 15.05.1998 vide letter No.CAL/BG/GR/MP- 521. The scheme period is 2008-09 to 2012-13.** There is no forest land in the mine lease area. The mine working will be opencast semi mechanized.

Considering the information furnished and presentation made by the consultant M/s. **KALYANI LABORATORIES PVT. LTD.** , Bhubaneswar, on the behalf of the proponent ,the SEAC decided that ToR would be issued as per Model ToR for mines after receipt of following information from the proponent.

1. The modified pre-feasibility report as per the guidelines of the MoEF, Govt. of India office memorandum No. J-11013/41/2006-IAII(I) dt. 30.12.2010 including a clear maps and images and other details.
2. Throughput of the beneficiation plant in Ton /Annum
3. Quantity of water required and source of water
4. Approval status of present mining scheme period
5. Proposal for installation of one higher capacity beneficiation plant in one of the mining lease areas instead of many lower capacity beneficiation plants as the lease area boundaries are adjacent to each other.

ITEM NO. 8:

PRODUCTION OF 10050 TPA GRAPHITE ORE AND INSTALLATION OF BENEFICIATION PLANT OF 50 TPH CAPACITY OVER AN AREA OF 36.033 HA AT TEMRIMAL IN THE DISTRICT OF BARGATH OF PRABHASH CHANDRA AGRAWAL (TOR)

The proposal was considered by the SEAC to determine the Terms of Reference (TOR) for under taking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA notification, 2006. Project proponent had submitted information in the prescribed format (Form-I) along with pre-feasibility report. It's a proposed graphite mining project **over lease area 36.033 ha. for enhancement in production Of Graphite Ore from 1000 T/Annum to 10050 TPA**

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and installation of beneficiation plant of capacity 50 TPH, at-Temrimal, Paikmal, in Bargarh district . Renewal of mining plan was approved on 26.06.1998 vide letter No. CAL/BRG/GR/MP- 480. The scheme period is 2003-04 to 2011-13.. There is no forest land in the mine lease area. The mine working will be opencast semi mechanized.

Considering the information furnished and presentation made by the consultant M/s. **KALYANI LABORATORIES PVT. LTD.** , Bhubaneswar, on the behalf of the proponent ,the SEAC decided that ToR would be issued as per Model ToR for mines after receipt of following information from the proponent.

1. The modified pre-feasibility report as per the guidelines of the MoEF, Govt. of India office memorandum No. J-11013/41/2006-IAII(I) dt. 30.12.2010 including a clear maps and images and other details.
2. Throughput of the beneficiation plant in Ton /Annum
3. Quantity of water required and source of water
4. Approval status of present mining scheme period
5. Proposal for installation of one higher capacity beneficiation plant in one of the mining lease areas instead of many lower capacity beneficiation plants as the lease area boundaries are adjacent to each other.

ITEM NO. 9:

PRODUCTION OF 3608 TPA GRAPHITE ORE AND INSTALLATION OF BENEFICIATION PLANT OF 50 TPH CAPACITY OVER AN AREA OF 11.149 HA AT TEMRIMAL IN THE DISTRICT OF BARGATH OF PRABHASH CHANDRA AGRAWAL (TOR).

The proposal was considered by the SEAC to determine the Terms of Reference (TOR) for under taking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA notification, 2006. Project proponent had submitted information in the prescribed format (Form-I) along with feasibility report. It's a proposed graphite mining project **over lease area 11.149 ha. for enhancement in production of Graphite Ore FROM 521 TO 3608 T/ and installation of beneficiation plant of capacity 50 TPH, at-Temrimal, Paikmal, in Bargarh district . Renewal of mining plan was approved on 22.06.1998 vide letter No. CAL/BRG/Gr/MP- 488. The scheme period is 2008-09 to 2012-13..** There is no forest land in the mine lease area. The mine working will be opencast semi mechanized.

Considering the information furnished and presentation made by the consultant M/s. **KALYANI LABORATORIES PVT. LTD.** , Bhubaneswar, on the behalf of the proponent ,the SEAC decided that ToR would be issued as per Model ToR for mines after receipt of following information from the proponent.

1. The modified pre-feasibility report as per the guidelines of the MoEF, Govt. of India office memorandum No. J-11013/41/2006-IAII(I) dt. 30.12.2010 including a clear maps and images and other details.

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2. Throughput of the beneficiation plant in Ton /Annum
3. Quantity of water required and source of water
4. Approval status of present mining scheme period
5. Proposal for installation of one higher capacity beneficiation plant in one of the mining lease areas instead of many lower capacity beneficiation plants as the lease area boundaries are adjacent to each other.

ITEM NO. 10:

(A) CONSIDERATION OF OLD PROPOSALS

I) PROPOSAL OF BHANJAPALI IRON ORE MINE OF SRI J. N. PATNAIK, AT-BHANJAPALI, KOIRA BONAI, DIST – SUNDARGARH FOR ENHANCEMENT OF PRODUCTION OF IRON ORE UPTO 260000 TPA OVER MINING LEASE AREA of 18 Ha.

The proposal is for enhancement of production capacity of Iron ore from 55994 TPA to 2,60,000 TPA. The mining lease area is 18 ha. Out of total mining lease area, 12.565 ha. is DLC forest and rest non forest land. The present lease was granted to Sri J. N. Patnaik on 29.2.96 for a period of 30 years. The mining operation commenced on 1.10.97. The mine working will be opencast semi mechanized involving drilling, blasting, excavation and transportation. The water requirement is 80 KLD and source of water is groundwater. The mining method will be open cast Semi-mechanized mines with crushing unit (30 TPH) and screening unit (150 & 200 TPH). Life of the mine is 14 years. TOR was given by SEAC vide letter No. 116 dt. 29.9.09 . The public hearing was conducted on 15.10.2010 .. The proposal was placed in the SEAC meeting held on 9TH & 10th February , 2011 .Considering the information furnished and presentation made by the consultant M/s Kalyani Laboratories Pvt. Ltd., Bhubaneswar, on the behalf of the proponent , the SEAC had 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.

The committee opined that MoEF has issued a circular No. J-11015/200/2008-IA.II(M) dt. 31.03.11 for consideration of projects for grant of environmental clearance under EIA Notification, 2006 which involve forestland .

As per the circular the EC will be considered only after receipt of the stage-I forest clearance for the forestland involved in the project. It was decided to ask the proponent to submit the Stage –I clearance.

II) FINAL APPRAISAL FOR EC FOR ENHANCEMENT OF PRODUCTION OF MANGANESE ORE UPTO 15,000 TPA AND IRON ORE 30,000 TPA OVER AN AREA 13.27 HA. M/S. KANTHAR-KOIRA IRON & MANGANESE ORE MINE AT KANTHER KOIRA IN THE DISTRICT OF SUNDARGARH OF M/S. B. S. MISHRA. (EC).

The proposal is for Enhancement Of Production Of Managenese Ore from 4,300 TPA To 15,000 TPA and production Of Iron Ore Upto 30,000 TPA for Kanther-Koira Iron & Manganese Ore Mines Over mining lease area 13.27 Ha, in Sundergarh District, Orissa.. **The lease was granted on** 20.09.1982 over an area of 33.985 Ha. And the renewal Application was filed on 13.09.2001 for 13.27 Ha (Surrendering 20.715 Ha lease). Date of expiry of lease is 19.09.2022. Commencement of mining activities was on 10.01.2002. Renewal Mining plan was approved on 16.01.2004 and present Scheme period is valid from 2007 to 2012. The mining method will be open cast Semi-mechanized mines. Out of total lease area, 0.54 ha is forest land. Life of the mine is 25 years for Mn Ore and 6 Years for iron ore . TOR was issued by MOEF, Govt. of India on dtd. 4.9.08 for EIA study. The public hearing was conducted on **10.06.2010**. The proposal was placed in the SEAC meeting held on 9th & 10th February, 2011 .Considering the information furnished and presentation made by the consultant M/s Kalyani Laboratories Pvt. Ltd., Bhubaneswar, on the behalf of the proponent , the SEAC had 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.

The committee opined that MoEF has issued a circular No. J-11015/200/2008-IA.II(M) dt. 31.03.11 for consideration of projects for grant of environmental clearance under EIA Notification, 2006 which involve forestland .

As per the circular the EC will be considered only after receipt of the stage-I forest clearance for the forestland involved in the project. It was decided to ask the proponent to submit the Stage –I clearance.

III) EC FOR CONSTRUCTION OF HOUSING PROJECT “TAMARIND TERRACE” RESIDENTIAL APARTMENT OF M/S. ARYANS INFRASTRUCTURE PVT. LTD AT-CHANDRASEKHARPUR, BHUBANESWAR

The proposal is a residential apartment at Chandrasekharpur, Bhubanesar, Odisha. Total plot area is 8090 sqm, built up area is 30000 sqm. The total makeup water requirement is 135 KLD. The water requirement will be met from PHED supply. Around 108KLD of waste water will be generated, which will be treated in a Sewage

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Treatment Plant (STP). Treated water will be re-used for dual flushing, green belt and landscaping. Total solid waste generation will be 0.8 TPD. The case was placed in the SEAC meeting held on 19-20 July, 2010 and 6TH and 7th Dec, 2010 . The SEAC decided to consider environmental clearance for the proposal after getting certain information/documents from the project proponent. The proponent furnished certain information / documents. The committee verified the same and opined that the following lacking information/documents are required to be furnished by the proponent for consideration of EC.

1. **APPROVED BDA PLAN AND DRAWINGS WITH STRUCTURAL SUFFICIENCY CERTIFICATE WITH BDA APPROVAL LETTER.**
2. **DETAILS OF STP PROPOSAL OF ION EXCHANGE INDIA (P) LTD.**

After receiving the above documents, the proposal will be considered in a future meeting.

IV) M/S. MAA TARINI MINERALS, PLOT NO. 99, AT – MANGULI, PO – CHOUDWAR, CUTTACK-754025

The proposed project for Chrome Ore Beneficiation Plant is of Capacity 9900 TPA, a At- Manguli District – Cuttack. The proposal was placed in the SEAC meeting held on 19-20 Nov 2009. The committee decided to reject the proposal in the present form and suggested that the proponent should apply afresh for further consideration complying observation of the committee. **The unit has applied without complying to the observations made by the SEAC. The case was placed in SEAC meeting held on 8th , 9th & 10th November 2010 and it was decided to return the proposal to SEIAA as the proponent had not applied as per observation. Again the proponent applied complying to the observation.**

The Committee opined that the SEAC has already requested to the SEIAA to take up this serious policy issue with the appropriate authorities in the State Govt. and decide further course of action since a number of chrome ore beneficiation plants have been considered with due diligence and rejected in the past and new proposals are likely to be placed, which would be a sheer wastage of time and effort on the part of proponents as SEIAA has not yet taken any decision in this matter.

It was decided to return the proposal to SEIAA and again request SEIAA to take policy decision regarding consideration of rejected and new proposal of chrome ore beneficiation plants.

v) FINAL APPRAISAL FOR EC OF MANMORA MANGANESE MINES OF M/s. TATA STEEL LTD. FOR PRODUCTION OF 12000 TPA MANGANESE ORE AND SLIME STORAGE FACILITY TO RECLAIM A PART OF THE MINED OUT PIT , AT-JODA OVER ML AREA 16.35 Ha IN THE DISTRICT OF KEONJHAR

The proposal is for production of 12,000 TPA Manganese ore from Manmora Manganese Mine and slime storage facility to reclaim a part of the mined out pit over a lease area of 16.35ha, which is a part of the existing Joda East Iron mine (JEIM) of

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M/s. TATA Steel with a total leasehold area of 671.093ha. The proponent has also applied for use of the mined out pit for storing slimes generated from their existing iron ore beneficiation plant. The TOR was issued by MoEF in Nov. 2008 based on which the EIA/EMP reports were submitted. The mine has obtained Forest Clearance and Consent to operate till March 2011. Public hearing of the proposal was conducted on 1.2.2010.

It was clarified during the presentation that the proponent has already exhausted the mineable manganese ore reserve of the Manmora Manganese Mine which seems to be a violation of EC as EC is yet to be granted. Presently TSL interested in slime storage and thereby reclaim a part of the mined out pit. The facts and figures presented shows that they had a residual reserve of 18,867T of mineable manganese ore in April, 2008, which they wanted to mine at a rate of 12,000TPA and so the expected life was 2 years. The proposed slime storage pond [dim. 430m (L) X 150 to 270m (W) X 77m (D)] is going to cover a surface area of 6.46ha to store 1.5 million m³ of slime to a depth of 33m in four years period. About 50% of the pit circumference is proposed to be built with 0.4 million m³ of OB material to a height of 35m. M/s. WAPCOS, a Govt. of India undertaking, has provided the designs and has carried out permeability test of the soil.

The proposal was placed in the SEAC meeting held on 6th and 7th December 2010 and 25th January , 2011 .Considering the information furnished and presentation made by the consultant, **M/s S.S Environics (India) Pvt. Ltd, Bhubaneswar**, on behalf of the proponent, 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. The committee also visited the mine on 17th March, 2011 to assess the present mining activities and environmental management practice.

Based on the information/document furnished by the proponent, the SEAC assessed that major activities during the next five years would be

- i) Construction of tailing pond for storage of slime to be generated from beneficiation plant of Joda- East iron ore mines.
- ii) Reclamation of mined out pits based on mine closure plan and reforestation of the ML area
- iii) Activities incidental to the above related activities

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 earthen embankments are planned as per WAPCO design, it needs stone walling on both sides to prevent collapse of the embankment as immediately down of the mine are the township, railway line and some agriculture land.
2. Since the mine has been fully worked and mineral resources have been fully removed, mine closure plan should be implemented forthwith reclaiming the mine pits and revegetation of the mine lease area.
3. The existing overburden dumps and the entire quantity of waste generated shall be backfilled and liquidated within five years and there shall be no external overburden dump in the mining lease area. The back filled area shall be afforested and back filling has to be done in a manner that it is restored to the normal ground level. A complete mine closure reclamation plan with afforestation

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- /revegetation component with year wise details submitted to the SEIAA within six months and strictly implemented.
4. 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.
 5. 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
 6. 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.
 7. 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.
 8. The applicant will comply to the points, concerns and issues raised by the people during public hearing on 01.02.2010 in accordance with the commitments made by him thereon.
 9. The project proponent shall take necessary safeguard measures to ensure that there is no leaching from the tailing pond.
 10. The decanted water from the tailing pond shall be re-circulated and there should be zero discharge from the tailing pond .
 11. The applicant will take statutory clearance/approval/permissions from the concerned authorities in respect of his project as and when required.
 12. 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.
 13. 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.
 14. The proponent shall submit baseline data on flora & fauna and CSR activities already carried out within three months to the SEIAA.
 15. 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.

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16. Maintenance of roads through which transportation are undertaken shall be carried out by the project proponent regularly at its own cost.
17. 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.
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 shall be done by covering the trucks with tarpaulin or other suitable mechanism so that no spillage of ore / dust takes place.
20. Rain water harvesting shall be undertaken to recharge the ground water source.
21. 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.
22. 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.
23. 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.
24. 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.
25. 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.
26. This Environmental Clearance is subject to Forest Clearance under the Forest (Conservation) Act, 1980.
27. The mining operations shall be restricted to above ground water table and it

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should not intersect the groundwater table.

28. 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.
29. 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.
30. 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 shall also be referred in this regard for its compliance.
31. 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.
32. 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 penal action under the provisions of Environment Protection (EP) Act, 1986.

(B) SCREENING OF NEW PROPOSALS

1. PROPOSAL FOR 60 (2X30) MW THERMAL POWER PLANT BY M/S. MAADURGA THERMAL POWER CO. LTD. AT BAINCHUA, TANGI, CUTTACK. (EC).

The proponent is required to submit the following for consideration

- i) Washed coal will be procured from M/s K.R. Enterprises . The unit has to furnish EC status of K.R .Enterprises and LOA issued to K.R .Enterprises.
- ii) As per the plan the proposed ash pond will pass through railway line. The unit has to furnish copy of permission from concerned authority to lay down the pipeline for ash disposal
- iii) Executive summary
- iv) The unit will supply 176 TPD fly ash to Sri Jagannath Associates for manufacturing of fly ash brick. The consent status of Sri Jagannath Associates may be intimated
- v) The Water Allocation committee in principle allocated 5cusec water from Birupa River but it is mentioned that the water will be matter of concern in

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the lean phase. The unit has to give detail proposal and area earmarked for storage of water for 2months

2. PROPOSAL FOR LPG MARKETING TERMINAL BY INDIAN OIL CORPORATION LTD., PARADEEP, ORISSA (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) dt. 30.12.2010
- ii) Status of Paradeep refinery project may be clarified
- iii) Details of leak detection system
- iv) Proposed pollution control measures.

3. PROPOSAL FOR CEMENT GRINDING UNIT OF 1.0 MTPA BY M/S. NAVADURGA INDUSTRIES LTD AT BANI, TANGI IN THE DISTRICT OF CUTTACK (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) dt. 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 drawl
- vi) Source of raw material
- vii) Land required for the proposed plant
- viii) Land use break up.
- ix) Location map alongwith topography map, contour map etc.

4. PROPOSAL FOR CLINKERISATION UNIT OF 1200/1800 TPD BY M/S. NAVADURGA INDUSTRIES LTD AT MAHULPATI, TUERKELA IN THE DISTRICT OF BOLANGIR (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) dt. 30.12.2010

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- ii) Industrial registration certificate.
- iii) Details of proposed APC measures
- iv) Source of raw material
- v) Power requirement and agreement with GRIDCO
- vi) Permission status of water drawl
- vii) Land required for the proposed plant
- viii) Land use break up.
- ix) Location map alongwith topography map, contour map etc.

5. PROPOSAL FOR EC FOR CONSTRUCTION OF A COMMERCIAL BUILDING PROJECT DOWN TOWN AT MAUZA GADHAKAN IN THE DISTRICT OF KHORDHA OF M/S. UNITECH LTD (EC).

The proponent is required to submit the following for consideration.

- i) Permission status of water drawal.
- ii) Drainage pattern of area.
- iii) Detailed water balance diagram.
- iv) Detailed proposal for solid waste management.
- v) Detail proposal for treated waste water utilization.
- vi) Detailed specification of STP.
- vii) Filled-in questionnaire
- viii) BDA approval letter with approved building plans.
- ix) Structural safety certificate from competent authority with drawing.
- x) Undertaking to the effect that construction work has not been started.
- xi) Rain water harvesting details.
- xii) Details of conservation of energy sufficiency certificate from concerned authority
- xiii) Location of discharge if any.

6. FINAL APPRAISAL FOR EC FOR PRODUCTION OF IRON ORE 290,000 TPA OVER AN AREA OF 42.985 HA IN RESPECT OF M/S. BUDHARAJA IRON & MANGANESE MINE AT BADAMPAHAR IN MAYURBHANJ DISTRICT.(EC).

The proponent is required to submit the following for consideration.

- i) Supportive documents from the concerned authority that Similipal Reserve forest is not within 10 Km radius of the project site.
- ii) The approved Mining Scheme is for the period 2011- 2015 where it has been mentioned that the salable iron ore production is 3.4 LTPA during 2011-2015 and Mn ore is 51550 Ton where the present EC proposal is only for 2.9 LTPA which is to be clarified

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- iii) Temporary Working Permission (TWP) has been granted for 8.13 ha broken land for 15 months in 5.11.2008. But, the total ML area is forest land. Present status may be furnished
- iv) Point wise compliance to TOR
- v) Status of forest clearance
- vi) Copy of mining lease
- vii) Present operational status of the mine
- viii) Status of permission for drawl of water
- ix) Environmental status of existing mine
- x) Copy of the progressive mine closure plan

6. PROPOSAL FOR MINOR IRRIGATION PROJECT OF DHAURAGOTH IRRIGATION PROJECT (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) dt. 30.12.2010 including a clear image of the location of the projects along with CCA, Catchment area, drainage pattern, levations/topography and location of forests, water bodies and other geological features appearing in a Toposheet in a larger scale
- ii) Evidence of Public Consultation in the form of Gram Sabha/ Palli Sabha resolution to show that the local people have a necessity and demand for such a project in the area.
- iii) Environmental sensitivity including survey of flora, fauna, endangered species, wild-life corridors etc. in at least 5km buffer zone of the MI project.
- iv) Budgetary allocation for amelioration of the environment in and around the project area amounting to at least 2% of the project cost.
- v) Provision for taking protective measures for degraded land/forests in the catchment area of the project.

- vi) Flow rate in the rivulet/nala of which the weir is proposed during at least four months (monsoon rains) to ensure assured water supply to the proposed CCA during Kharif crops.
- vii) Forest diversion clearance status, if any, for the proposed embankment and distribution canals

**(DR. R. C. MOHANTY)
MEMBER, SEAC**

**(DR. SWOYAM PRAKASH ROUT)
MEMBER, SEAC**

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

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

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

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

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

APPROVED

CHAIRMAN, SEAC

SECRETARY, SEAC

