



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

(Constituted vide order No. S.O. 2674 (E) Date 17th Nov. 2008 of Ministry of Environment & Forest, Govt. of India, Under Environment Protection Act, 1986.) Qr. No. 5RF-2/1, Unit-IX, Bhubaneswar-751022
E-mail-seiaaorissa@gmail.com, Website - www.orissaseiaa.gov.in

Ref. No. _____

Dt. _____

To

The Chief General Manger (P&C)
Odisha Industrial Infrastructure Development Corporation
IDCO Towers, Jana path, Bhubaneswar-751022

Sub: Environmental Clearance in favour of M/S Odisha industrial infrastructure Development Corporation for construction of IT SEZ with integrated township at Jatani Tahasil in district Khurda.

Sir,

With reference to your letter No HO/S&IP/189/2009/4768 Dt. 16.03.09, letter No nil Dt 17.07.09 and No 10464 Dt. 24.05.10 along with the application for Terms of Reference (ToR) for environmental clearance on the above mentioned subject. I am directed to say that the SEIAA considered the application on the proposal for the project involves construction of IT SEZ with integrated township at Jatni on a plot area 20.23 ha (500 acres) The total built-up area is 20, 81,029 sq.m .The project will provide a direct employment to 80,000 people and indirect employment to 3, 20,000 people. The total water requirement is 17.42 MLD (fresh water requirement is 10.12 MLD). The capacity of STP proposed is 9.00 MLD. Treated waste water to be used for flushing of toilets- 2.86 MLD, horticulture-4.45 MLD, AC cooling-4.41 MLD. Total solid waste generation will be 57 MT/day. The power requirement is 196.08 MW. The total parking spaces proposed are for 25918 cars. Total cost of the project is Rs. 2336.88 crores.

The project falls under category 'B1' under item 8(b)-Township and Area Development projects and requires an environmental Impact Assessment study, the total built area of the project is more than 1,500,000 sq.m. The proposal was considered in the 68th EAC meeting of MOEF, Govt. of India held during 19th-20th November 2008. The EAC finalized the TOR for EIA study. The terms of reference issued to the project proponent by MOEF Govt. of India vide letter No F.No.21-372/2008-IA.III, December 2008.

The SEIAA hereby accords environmental clearance in favour of the project for a period of 5 years for constructions of IT SEZ with integrated township on a plot area 20.23 ha. at Jatni tahasil in khurda district under the provision of the Environmental Impact Assessment Notification, 2006 and subsequent amendments there to and under various MOEF circulars there under and subject to conditions specified below.

1. GENERAL.

- 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, Form-1A and Environment Management Plan (EMP) in compliance with the prescribed statutory norms and standards.
- ii) The applicant will take statutory clearance/approval/permissions from the concerned authorities in respect of his project as and when required.

- iii) For post environmental clearance monitoring, the applicant will submit half-yearly compliance report in respect of the stipulated terms and conditions of this Environmental Clearance to the State Environmental Impact Assessment Authority (SEIAA), Odisha on 1st June and 1st December of each calendar year.
- iv) The applicant (Project proponent) will adopt the prescribed norms, and standards provided in the National Building Code of India, 2005 specially relating to:
 - a) Fire protection and life safety of occupants of the buildings.
 - b) Safety of personnel during construction, operation and demolition of buildings.
 - c) Lighting and natural ventilation of building.
 - d) Safety from electrical fire, shock and lightening of the buildings,
 - e) Air-conditions, heating and mechanical ventilation of the buildings
 - f) Acoustics and noise control of the buildings.
 - g) Installations of lifts and escalators in the buildings
 - h) Water supply, drainage and sanitation including solid waste management of the buildings.
 - i) Landscaping of surrounding areas of the buildings.

II. CONSTRUCTION PHASE

- i) Provision shall be made for the 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.
- ii) A first Aid Room will be provided in the project both during construction and operation of the project.
- iii) All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.
- iv) Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- v) Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.
- vi) Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they should not leach into the ground water.
- vii) Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the Odisha Pollution Control Board.
- viii) The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environment (Protection) Rules, 1986 prescribed for air and noise emission standards.
- ix) The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken.
- x) Vehicles used for bringing construction materials to the site should be in good condition and should have a pollution check certificate and conform to applicable air and noise emission standards and should be operated only during non-peak hours.
- xi) Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to confirm to the stipulated standards by CPCB/OPCB.
- xii) Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September 1999 and amended as on 27th August 2003. The above condition is applicable as the project site is located within the 100 Km of Thermal Power Stations.
- xiii) Ready mixed concrete must be used in building construction.
- xiv) Storm water control and its re-use should be as per CGWB and BIS standards for various applications.
- xv) Water demand during construction should be optimized by adopting best practices without compromising quality.
- xvi) Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project.

- xvii) Separation of grey and black water should be done by the use of dual plumbing line. Grey and black water should be treated separately.
- xviii) Fixtures for showers, toilet flushing and drinking water should be of low flow type either by use of aerators or pressure reducing devices or sensor based control.
- xix) Use of glass may be reduced up to 40% of total outer wall area to reduce the energy consumption and load on air-conditioning. If necessary, high quality double glass with special reflective coating may be used in the Windows.
- xx) Roof should meet the prescribed requirement as per Energy Conservation Building Code by using appropriate thermal insulation material.
- xxi) Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code.
- xxii) The approval of the competent authority shall be obtained for structural safety of the buildings due to earthquake, adequacy of fire fighting equipments, etc. as per National Building Code of India, 2005 including protection measures from lightening etc.
- xxiii) Regular supervision of the above and other measures for monitoring should be in place although the construction phase to avoid disturbance to the surroundings.

III. OPERATION PHASE.

- i.) The installation of the Sewage Treatment Plant (STP) should be certified by a competent agency and a report in this regard should be submitted to the SEIAA, Orissa before the project is commissioned for operation. Treated effluent from STP shall be recycled/ reused to the maximum extent possible. Treatment of 100% grey water by decentralized treatment should be done. Discharge of unused treated effluent shall conform to the norms and standards of the Odisha State Pollution Control Board. Necessary measures should be taken to mitigate the odour problem from STP.
- ii.) The Solid waste generated should be properly collected and segregated. Wet garbage should be composted and dry / inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.
- iii.) Diesel power generating sets proposed as source of back up power for lifts, elevators and common area illumination during operation phase should be of enclosed type and conform to Environment Protection (EP) rules 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Low sulphur diesel should be used. The location of the DG sets may be decided in consultation with Odisha State Pollution Control Board.
- iv.) Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of building shall be restricted to the permissible levels to comply with the prevalent regulations.
- v.) The project proponent clarified that part of existing project area is jungle Kisam land which will be developed as green belt. If the status of land is forest land, then Forest Clearance from MOEF, Govt. of India is required. Development of green belt in the proposed jungle Kisam land with full cost detail etc. to be submitted to the MOEF, Govt, of India for seeking forest clearance under Forest Conservation Act, 1980.
- vi.) Weep holes in the compound walls shall be provided to ensure natural drainage of rainwater in the catchment area during the monsoon period.
- vii.) Rain water harvesting for roof run- off and surface run-off, as plan submitted should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease. The bore-well for rainwater recharging should be kept at least 5 mts. above the highest groundwater table.
- viii.) The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.
- ix.) Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized for this purpose.
- x.) A Report on the energy conservation measures confirming to energy conservation norms finalized by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, R & U Factors etc and submit to the SEIAA, Odisha in three months time.
- xi.) Energy conservation measures like installation of CFLs/ TFLs for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Used

- CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the maximum extent possible.
- xii.) The building blocks should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.
 - xiii.) The proponent shall furnish detailed information on domestic E-waste which includes obsolete personal computers (PC) etc. and dispose the e-waste as per CPCB, Delhi / MOEF, Govt, of India guidelines. A detailed proposal to this effect shall be submitted to the authority.
 - xiv.) The funds earmarked for the environment protection measures shall be judiciously utilized. Under no circumstances this funds shall be diverted for other purposes. Year wise expenditure for this fund should be reported to the SEIAA, Odisha.
 - xv.) 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.

Member Secretary,

Memo No _____/Dt. _____

Copy to

1. Ministry of Environment & Forests, Govt. of India, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi for kind information.
2. Principal Secretary, Forests & Environment Dept., Government of Odisha for kind information.
3. Chairman, State Pollution Control Board, Parivesh Bhawan, A/118, Nilakantha Nagar, Unit-8, Bhubaneswar for kind information.
4. Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment & Forests, A-31, Chandrasekharpur, Bhubaneswar for kind information.
5. Chairman, Central Pollution Control Board, CBD-cum-office Complex, East Arjun Nagar, New Delhi-110032 for kind information.
6. Vice Chairman, Bhubaneswar Development Authority, Akash Sobha Building, Pandit Jawaharlal Nehru Marg, Bhubaneswar-751001 for kind information.
7. Chief Engineer, PH (Urban), Orissa, 1st Floor, Heads of Dept. Building, Bhubaneswar-751001 for kind information.
8. Chief Engineer-cum-Member Secretary, Orissa Water Supply & Sewerage Board, Satya Nagar, Bhubaneswar-751007 for kind information.
9. Collector, Khurda for kind information and necessary action.
10. Chairman/Member/Member Secretary, SEIAA for kind information.
11. Chairman, SEAC/Secretary, SEAC, Parivesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar for kind information.
12. Guard file for record.

Member Secretary,