

**F.No.21-379/2007-IA.III**  
**Government of India**  
**Ministry of Environment & Forests**

**Paryavaran Bhawan,  
CGO Complex, Lodhi Road,  
New Delhi - 110 003.**

**Dated: 13<sup>th</sup> February, 2012**

✓ **To**

**M/s Andhra Pradesh Industrial Infrastructure Corporation Ltd.  
Parisrama Bhavanam, 6<sup>th</sup> floor, 5-9-58-B,  
Fateh Maidan Road, Hyderabad - 500 004  
Andhra Pradesh**

**Subject: Environment Clearance for Multiproduct Andhra Pradesh SEZ  
at Achutapuram and Rambilli Mandals, Visakhapatnam  
District, Andhra Pradesh and CRZ Clearance for laying Marine  
disposal pipeline by M/s. Andhra Pradesh Industrial  
Infrastructure Corporation Ltd - Reg.**

Dear Sirs,

This has reference to your application No. 173/CGM(P)/Projects/EIA/06 dated 13.03.2007 and letter No. 8471/CZMA/2010 dated 30.07.2011 from the Special Chief Secretary, Environment Forests, Science and Technology Department, Government of Andhra Pradesh, seeking prior Environmental and CRZ Clearance for the above project under the EIA Notification, 2006 and Coastal Regulation Zone Notification, 2011. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification, 2006 and the Coastal Regulation Zone Notification, 2011 on the basis of the mandatory documents enclosed with the application viz., the Questionnaire, EIA, EMP, recommendation of the State Coastal Zone Management Authority and the additional clarifications furnished in response to the observations of the Expert Committee constituted by the competent authority in its meetings held on 5<sup>th</sup>-6<sup>th</sup> April, 2011 and awarded "Silver" grading to the project.

2. It is, interalia, noted that the project involves the area is 5,683 acres (2300 hectares) and the land has been acquired completely for the project. The site coordinates are 17° 29' 23" N and 17° 32' 47.5" N and 80° 56' 58" E and 80° 00' 57" E and it is about 40 km south-west of Visakhapatnam City and 3.0 km south of Atchutapuram. The processing area in APSEZ occupies an area of 5479 acres and comprises of industrial plots, infrastructure facilities, logistics areas, common amenities and green/open areas etc. Entire processing area of APSEZ has been divided into five different Industrial Zones. The remaining 204 acres has been identified as non processing area and comprises of township and social infrastructure facilities such as educational and medical facilities.

In order to ensure adequate circulation within the SEZ, the internal roads with a Right of Way (RoW) of 55m, 50m, 45m, 40m, 30m and 15 m are

proposed. A dedicated rail corridor connecting the Logistics hub is also proposed. Water requirement for APSEZ is estimated at 100 MLD which will be sourced from Yeluru Left Main Canal and a 60 MLD desalination plant is being planned considering the ultimate demand of fully developed SEZ. Power requirement for APSEZ is 500 MW which will be sourced from APTRANSCO's 132 kV feeder line near Atchutapuram and captive power plant (500 MW) is proposed in APSEZ to facilitate uninterrupted power supply. A common effluent treatment plant (CETP) of 31 MLD and provision for guard pond is planned for the detention of treated wastewater for about 3.5 days. Based on mathematical model studies, a marine outfall system is proposed to discharge the treated wastewater from APSEZ at (-) 19 m CD in Bay of Bengal and point of discharge is located at a distance of about ~3.5 km from shore. Sewage Treatment Plant (STP) of 7.0 MLD capacity is proposed in Non-processing area and sewage generated in processing area shall be sent to CETP for treatment and disposal. Hazardous waste generated from APSEZ shall be sent to nearby Transport Storage Disposal Facility (TSDF). As a part of sustainable environmental management plan of APSEZ, it is proposed to maintain a dedicated TSDF in an area of 50 acres of land, which can be operated for a period of 30 years outside SEZ premises. Greenbelt/Green Areas proposed to be developed at SEZ level is 860 acres.

3. National Institute of Oceanography (NIO) demarcated HTL, LTL and CRZ area. As per the NIO report, SEZ site is located outside the CRZ area i.e. about one kilometer from the HTL of open sea and 100 m away from Pudimadaka creek. The land fall point is located at latitude 17°29' 57"N and longitude 83°0'30". The location of Marine outfall is at latitude 17°29'11"N and longitude 83°02'18". The Andhra Pradesh Coastal Zone Management Authority has recommended the laying of dedicated pipeline for discharge of treated effluent into sea near Pudimadaka village of Parawada Mandal in Visakhapatnam District vide letter no. 8471/CZMA/2010 dated 30.07.2011. Andhra Pradesh Pollution Control Board has granted Consent to Establishment of Marine outfall (NOC) vide letter No. PCB/CFE/RO-VSP/HO/2011/ 2455 dated 10.11.2011.

4. The Expert Appraisal Committee, after due consideration of the relevant documents submitted by the project proponent and additional clarifications furnished in response to its observations, have recommended for the grant of Environment and CRZ Clearance for the project mentioned above. Accordingly, the Ministry hereby accord necessary Environment and CRZ Clearance for the above project as per the provisions of Environmental Impact Assessment Notification – 2006 and its subsequent amendments and Coastal Regulation Zone Notification, 2011, subject to strict compliance of the terms and conditions as follows:

#### **PART A - SPECIFIC CONDITIONS**

##### **I. Construction Phase**

- (i) "Consent for Establishment" for the SEZ shall be obtained from Andhra Pradesh Pollution Control Board under Air and Water Act

and a copy shall be submitted to the Ministry before start of any construction work at the site.

- (ii) Provision shall be made for the housing of construction labour 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.
- (iii) A First Aid Room will be provided in the project both during construction and operation of the project.
- (iv) All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.
- (v) Disposal of muck during construction phase should not create any adverse effect on the neighbouring 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.
- (vi) 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.
- (vii) 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.
- (viii) Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the Andhra Pradesh Pollution Control Board.
- (ix) The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.
- (x) 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.
- (xi) Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.



- (xii) 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 conform to the stipulated standards by CPCB/APPCB.
- (xiii) 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 27<sup>th</sup> August, 2003. (The above condition is applicable only if the project site is located within the 100 Km of Thermal Power Stations).
- (xiv) Ready mixed concrete must be used in building construction.
- (xv) Storm water control and its re-use as per CGWB and BIS standards for various applications.
- (xvi) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- (xvii) Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project.
- (xviii) Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.
- (xix) Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.
- (xx) Use of glass may be reduced by upto 40% to reduce the electricity consumption and load on airconditioning. If necessary, use high quality double glass with special reflective coating in windows.
- (xxi) Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.
- (xxii) Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code which is proposed to be mandatory for all airconditioned spaces while it is aspirational for non-airconditioned spaces by use of appropriate thermal insulation material to fulfill requirement.
- (xxiii) 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 including protection measures from lightening etc.

- (xxiv) Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.
- (xxv) Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.

## **II. Operation Phase**

- (i) The SEZ PP i.e. APIIC while issuing the allotment letter to individual member units shall specifically mention the allowable maximum quantity of water usage and effluent generated by each member unit.
- (ii) The member units shall provide above ground tanks for storage of effluent for monitoring the characteristics of effluent before taking into the CETP for further treatment.
- (iii) The environmental monitoring and compliance mechanism as submitted to MoEF shall be complied. The same shall be specifically mentioned in the allotment letter issued to individual member units by the Project proponent.
- (iv) The PP shall establish an environmental monitoring cell with all the potential polluting units as members to review the environmental monitoring data and suggest for improvements.
- (v) The outfall location shall be 3.5 km from the land fall point at 19 m CD and regular monitoring of dispersion of the effluent shall be carried out to ensure no adverse impact to the neighbouring eco-sensitive environments.
- (vi) There shall be no disturbance to the sand dunes. The pipeline shall be laid using advanced method viz Horizontal Directional Drilling (HDD) so as to avoid disturbance to the sand dunes.
- (vii) Periodic monitoring of coastal water shall be carried out at outfall location.
- (viii) No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.
- (ix) The installation of the Effluent Treatment Plant (ETP) and Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the Ministry before the project is commissioned for operation. Treated effluent emanating from ETP and STP shall be recycled/ reused to the maximum extent possible. Treatment of 100% grey water by decentralised treatment should be done. Discharge of unused



treated effluent shall conform to the norms and standards of the Andhra Pradesh Pollution Control Board. Necessary measures should be made to mitigate the odour problem from ETP and STP.

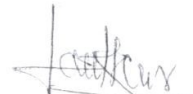
- (x) The solid waste generated should be properly collected and segregated. Wet garbage should be composted and dry / inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.
- (xi) Diesel power generating sets proposed as source of back up power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low sulphur diesel. The location of the DG sets may be decided with in consultation with Andhra Pradesh Pollution Control Board.
- (xii) 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 the building shall be restricted to the permissible levels to comply with the prevalent regulations.
- (xiii) The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.
- (xiv) Weep holes in the compound walls shall be provided to ensure natural drainage of rain water in the catchment area during the monsoon period.
- (xv) 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 borewell for rainwater recharging should be kept at least 5 mts. above the highest ground water table.
- (xvi) The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.
- (xvii) 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.
- (xviii) A Report on the energy conservation measures confirming to energy conservation norms finalise by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, R & U Factors etc and submit to the Ministry in three months time.

- (xix) Energy conservation measures like installation of CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use 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 extent possible.
- (xx) Adequate measures should be taken to prevent odour problem from solid waste processing plant and STP.
- (xxi) The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.

#### **PART - B. GENERAL CONDITIONS**

- i) The environmental safeguards contained in the EIA Report should be implemented in letter and spirit.
  - ii) Six monthly monitoring reports should be submitted to the Ministry and it's Regional Office, Bangaluru.
5. 5% of the total project cost shall be earmarked towards the corporate social responsibility (CSR and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office. Implementation of such program shall be ensured accordingly in a time bound manner.
6. Officials from the Regional Office of MOEF, Bangaluru who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents / data by the project proponents during their inspection. A complete set of all the documents submitted to MoEF should be forwarded to the CCF, Regional office of MOEF, Bangaluru.
7. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.
8. The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
9. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.

10. These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
11. The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the Andhra Pradesh Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at <http://www.envfor.nic.in>. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Bangaluru.
12. Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.
13. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.
14. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
15. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
16. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.



**(Lalit Kapur)**  
**Director (IA-III)**

Copy to:

- (1) The Secretary, Department of Environment, Government of Andhra Pradesh, Secretariat, Hyderabad.
- (2) The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 110 032.
- (3) The Member Secretary, Andhra Pradesh Pollution Control Board, Hyderabad.
- (4) The CCF, Regional Office, Ministry of Environment & Forests(SZ), Kendriya Sadan, IVth floor, E&F wings, 17<sup>th</sup> Main Road, Koramangala II Block, Bangaluru - 560 034.
- (5) IA - Division, Monitoring Cell, MOEF, New Delhi - 110003.
- (6) Guard file.

**(Lalit Kapur)**  
**Director (IA-III)**