



State Level Environment Impact Assessment Authority (SEIAA)

Andhra Pradesh

Ministry of Environment, Forests & Climate Change

Government of India

D.No.33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre,
Chalamavari Street, Kasturibaipet, Vijayawada-520010

BY REGD. POST WITH ACK DUE

Order No. SEIAA/AP/KRI/IND/01/2018/476-

Dt.15.10.2018.

Sub: SEIAA, A.P. – Development of Industrial Park by A.P.Industrial Infra Structure Corporation (APIIC) at Sy.No 11 and 16, Mallavali (V), Bapulapadu (M), Krishna District, A.P. - Environmental Clearance - Issued - Reg.

- I. This has reference to your application submitted through online on 02.01.2018 and EIA report submitted on 21.08.2018 (SIA/AP/NCP/21465/2017), seeking Environmental Clearance for the proposed **Development of Industrial Park by A.P.Industrial Infra Structure Corporation (APIIC) at Sy.No 11 and 16, Mallavali (V), Bapulapadu (M), Krishna District, A.P.** The capital cost of the project is Rs.406 Crores. It was reported that the industrial sectors which are proposed within the industrial park are, (1) Engineering / Manufacturing, (2) Micro, Small and Medium Enterprise, (3) Chemicals and Allied Chemicals including Agro chemicals, Marine chemicals, Specialty chemicals, Paints, Dyes and pigments, Industrial gases etc. (4) Herbal medicines, bio pharmaceuticals and (5) Logistics.
- II. It was reported that total site/plot area of the project is 1165.73 Acres (472 Ha), Out of that general industrial zone is 334.76 Ha; Commercial zone 11.42 Ha; Land scaped green area / open space 59.02 Ha; Road area 49.83 Ha; Others 16.62 Ha.
- III. The source of fresh water is from the Nuzvid Water Supply Project. The total water requirement shall not exceed 5.9 MLD and firefighting requirement 0.6 ML. The effluent generated 3.51 MLD is to be treated in CETP of capacity 4.5 MLD and the treated waste water is reused for flushing/ floor wash/green belt. The Sewage generated is 0.97 MLD. The sewage generated from the project is to be treated in CSTP of capacity 1.0 MLD and used for greenbelt/ Floor Wash. The solid waste generated shall be disposed to local municipalities. The industrial solid / hazardous waste shall be disposed to TSDF, Visakhapatnam. The Solid waste generation, shall be disposed to local municipalities/compost plant. The CSTP sludge generated will be used as manure. The hazardous waste i.e., the industrial waste shall disposed to TSDF/ sent to Authorized Recyclers, Chemical waste shall disposed to TSDF, waste oil shall disposed to TSDF / Authorised recyclers, used batteries shall be sent to Authorized Recyclers, waste from Recycling facilities shall be disposed to TSDF/ sent to Authorized Recyclers.

The proposal has been examined and processed in accordance with EIA Notification, 2006 & its amendments thereof. The State Level Expert Appraisal Committee (SEAC) examined the proposal in its meetings held on **26.08.2018**. The representative of the project proponent - M/s. APIIC and their consultant M/s. L&T Infrastructure Engineering Ltd have attended the meeting and presented Final EIA report of their project proposal for development of model industrial park.

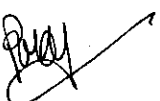
In this industrial park they intend to propose the industrial sectors: 1. Engineering / Manufacturing, 2. Micro, Small and Medium Enterprise 3. Chemicals and Allied Chemicals including Agro chemicals, Marine chemicals, Specialty chemicals, Paints, Dyes and pigments,

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Industrial gases etc. 4. Herbal medicines, bio pharmaceuticals and 5. Logistics. The Committee noted that M/s. APIIC is proposes to develop the model Industrial Park (IP) – Mallavalli for the different industrial sectors and the proposed IP area is about 1165.73 acres (472 Ha). The TOR letter was issued with public hearing along with additional TOR to APIIC ON 26.02.2018. The public hearing was conducted on 07.08.2018. The Final EIA report submitted vide letter dated 21.08.2018. The proposed project falls under Item No. 7(c) of the schedule of the EIA Notification 2006- Industrial estates/ parks/ complexes/ areas, export processing Zones (EPZs), Special Economic Zones (SEZs), Biotech Parks, Leather Complexes.-[Industrial estates housing at least one Category B industry and area <500 ha. The Committee recommended for **Issue of Environmental Clearance** to this proposed project-Model Industrial Park - Mallavalli to establish the Category 'B' industries /activities listed in the schedule of the EIA Notification 2006 and other industries duly stipulating condition that in the proposed industrial park, there shall not be any type of industry/activity which is listed in any of the items of Category 'A' in the schedule of EIA Notification 2006., and with the standard conditions & other conditions. The State Level Environment Impact Assessment Authority (SEIAA), in its meeting held on **25.09.2018** examined the proposal and the recommendations of SEAC, and decided to issue EC. The SEIAA, A.P hereby **accords prior Environmental Clearance to the project** as mentioned at Para No. I under the provisions of the EIA Notification 2006 and its subsequent amendments issued under Environment (Protection) Act, 1986 subject to implementation of the following specific and general conditions:

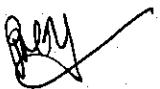
PART – A: SPECIFIC CONDITIONS:

- (i) The APIIC shall adopt the Zero Liquid Discharge system (ZLD) for the treatment and disposal of effluents.
There shall not any discharge from these units under any circumstances there shall not be any type of industry/activity which is listed in any of the items of Category 'A' in the schedule of EIA Notification 2006.
- (ii) Wastewater generated from all industrial units shall be treated in Common Effluent Treatment Plant (CETP). The industrial and domestic effluents shall be collected and transported through dedicated separate pipelines and shall be treated in CETP- 4.5 MLD and CSTP of capacity 1.0 MLD respectively.
- (iii) In all 33% of the total area shall be maintained as greenbelt development areas at Industrial Park level, out of which half at Industrial Park level and remaining half of greenbelt shall be maintained by individual plot owners for which the APIIC shall mention this condition while giving the allotment letter to the proposed industrial units in the Industrial Park
- (iv) APIIC shall obtain the necessary permissions from the Irrigation Dept. on the potential availability of water for the proposed Industrial Park
- (v) The Solid waste management as per the SWM Rules, 2016, applicable for Construction Projects and the parking area in compliance with the NBC/ MoEF/ local Government regulations as applicable.
- (vi) The proponent shall comply with the commitments mentioned during the public hearing.
- (vii) The Project Proponent shall comply with the standard EC Conditions stipulated in Annexure-XXV of the MoEF&CC, Office Memorandum F.No.22-34/2018-IA-III, dated 9th August,2018, (as annexed) the additional conditions applicable to the proposed development of industrial park by APIIC.



I. Construction Phase:

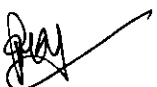
- (i) Provision shall be made for the housing of the construction labour within the site with all necessary infrastructure and facilities such as safe drinking water, fuel for cooking, mobile toilets, mobile STP, medical health care, crèche etc., The housing may be in the form of temporary structures to be removed after the completion of the project. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.
- (ii) A First Aid Room shall 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 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.
- (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 including biomedical waste, if any, should be disposed of as per applicable Rules & norms with necessary approvals of the Andhra Pradesh Pollution Control Board.
- (viii) The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to E (P) Rules prescribed for air and noise emission standards.
- (ix) Vehicles hired for bringing construction material to the site should be in good condition and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.
- (x) Ambient noise levels should conform to the residential standards both during day and night as notified by the MoE&F, GOI from time to time. 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 the CPCB.
- (xi) As per the provisions of Fly Ash Notification No: S.O. 2804 (E), dt. 03.11.2009, every construction agency engaged in the construction of buildings within a radius of hundred kilometers from a coal or lignite based thermal power plant shall use only fly ash based products for construction, such as: cement or concrete, fly ash bricks or blocks or tiles or clay fly ash bricks, blocks or tiles or cement fly ash bricks or bricks or blocks or similar products or a combination or aggregate of them in every construction project.
- (xii) Ready mixed concrete must be used in building construction.
- (xiii) Storm water control and its re-use shall be as per CGWB and BIS standards for various applications.



- (xiv) Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project.
- (xv) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- (xvi) Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.
- (xvii) Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices of sensor based control.
- (xviii) Use of glass may be reduced by upto 40% to reduce the electricity consumption and load on air-conditioning. If necessary, high quality double glass with special reflective coating in window is to be used.
- (xix) Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.
- (xx) Adequate measures to reduce air and noise pollution during construction keeping in mind CPCB norms on noise limits.
- (xxi) Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code which is proposed to be mandatory for all air-conditioned spaces while it is aspirational for non-air conditioned spaces by use of appropriate thermal insulation material to fulfill requirement.
- (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 including protection measures from lightening etc.
- (xxiii) 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.

II. Occupational Phase:

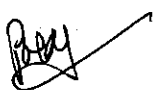
- (i) The installation of the common Sewage Treatment Plant (CSTP) should be certified by an independent expert and a report in this regard should be submitted to the SEIAA before the project is commissioned for operation. Discharge of treated sewage shall conform to the norms & standards of the Andhra Pradesh Pollution Control Board. Common Sewage Treatment Plant should be monitored on a regular basis. No effluent shall be disposed outside the premises and Zero Liquid Discharge Concepts shall be adopted.
- (ii) As an integral part of the park, the APIIC shall build the Common Effluent Treatment Plant and make it ready to be used by the project proponents in the park, similar to other infrastructures such as Roads and drainage systems.
- (iii) Greenbelt shall be developed in an area of 33% of the total area of the Park as committed, along the boundary, vacant places and within the industrial plots.
- (iv) 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.
- (v) The solid waste generated should be properly collected & segregated before disposal to the City Municipal Facility. The organic waste shall be composted.



- (vi) The D.G. Sets shall be provided with acoustic enclosures and adequate stack height as per CPCB norms. The fuel used for the diesel generator sets should be low sulphur diesel and should conform to E (P) Rules prescribed for air and noise emission standards.
- (vii) Any hazardous waste including biomedical waste should be disposed of as per applicable Rules & norms with necessary approvals of the Andhra Pradesh Pollution Control Board.
- (viii) The green belt design along the periphery of the plot shall achieve attenuation factor conforming to the day and night noise standards prescribed for residential land use by the MoE&F, GOI/CPCB. The open spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous variety. 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.
- (ix) Incremental pollution loads on the ambient air quality, noise and water quality should be periodically monitored after commissioning of the project.
- (x) Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting in addition to provision for solar water heating. A hybrid systems or fully solar system for a portion of the apartments should be provided.
- (xi) 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.
- (xii) Adequate number of parking spaces shall be provided for visitor vehicles. Rest room facilities should be provided for service population. The proponent shall provide public convenience facilities such as toilets, bathrooms, waiting rooms etc. for the drivers, workers etc. so as to maintain cleanness/hygienic conditions in the surroundings of the project.
- (xiii) The proponent shall comply with Energy Conservation Practices, Energy efficient practices and energy audit practices. Wherever feasible, green building concepts shall be adopted. Use of solar panels may be done to the extent possible.
- (xiv) Adequate measures should be taken to prevent odour problem from solid waste processing plant and CSTP.

Part – B. General Conditions:

- (i) **This order is valid for a period of 7 years.**
- (ii) "Consent for Establishment" shall be obtained from Andhra Pradesh Pollution Control Board under Air and Water Act before the start of any construction work at site.
- (iii) The proponent shall submit half-yearly compliance reports in respect of the terms and conditions stipulated in this order & monitoring reports in hard and soft copies to the SEIAA, A.P., District Collector and Ministry's Regional office, Chennai on 1st June and 1st December of each calendar year.



- (iv) Officials from the Regional Office of MoEF&CC, Chennai / The SEIAA, Andhra Pradesh through the Regional Offices of Andhra Pradesh Pollution Control Board, who would be monitoring the implementation of environmental safeguards should be given full co-operation, facilities and documents/data by the project proponents during their inspection. A complete set of all the documents shall be submitted to the CCF, Regional Office, MoE&F, Chennai
- (v) In the case of any change (s) in the scope of the project, the project would require a fresh appraisal by this SEIAA. No further expansion or modifications in the project shall be carried out without prior approval of the SEIAA, AP.
- (vi) The project proponent shall submit the copies of the environmental clearance to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- (vii) The proponent shall obtain clearance from Fire Department. All other statutory clearances shall be obtained, as applicable by project proponents from the competent authorities.
- (viii) 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. The advertisement should be made within 7 days from the day of issue of the clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Chennai.
- (ix) The funds earmarked for environmental protection measures (**Capital cost Rs.13.7 Crores and Recurring cost Rs.1.3 Crores /annum**) should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the SEIAA and Ministry's Regional Office located at Chennai.
- (x) At least 2% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared in accordance to the MoEF&CC's office Memorandum No.F.No.22-65/2017-IA.III, dated.01.05.2018 and submit to the SEIAA, A.P and Ministry's Regional Office, Chennai.
- (xi) Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- (xii) The SEIAA may revoke or suspend the order, if implementation of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- (xiii) Concealing the factual data or failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986 without any prior notice.

- (xiv) 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.

Sd/-
MEMBER SECRETARY,
SEIAA, A.P.

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SEIAA, A.P.

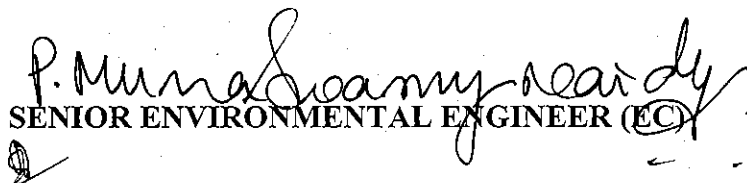
Sd/-
CHAIRMAN,
SEIAA, A.P.

To
Development of Industrial Park of
Andhra Pradesh Industrial Infrastructure Corporation Ltd.,
Parisrama Bhavan, 6th Floor,
5-9-58/B, Fateh Maidan Road, Basheerbagh,
Hyderabad- 500004.
Tel-0866-2428300, 323,
Web- www.apiic.in

Copy to:

1. The Chairman, SEAC, A.P. for kind information.
2. The Member Secretary, APPCB for kind information.
3. The EE, RO: Vijayawada, APPCB for information.
4. The Regional Officer, MOEF&CC, GOI, Chennai for kind information.
5. The Secretary, MOEF&CC, GOI New Delhi for kind information.
6. Monitoring cell, MoEF&CC, GOI, New Delhi for kind information.
7. The District Collector, Krishna District, Andhra Pradesh for kind information.

//T.C.F.B.O//


P. Murali Swamy
SENIOR ENVIRONMENTAL ENGINEER (EC)

