



Government of India  
Ministry of Environment, Forest and Climate Change  
(Impact Assessment Division)

To,

The VCMD  
ANDHRA PRADESH INDUSTRIAL INFRA STRUCTURE CORPORATION  
ANDHRA PRADESH INDUSTRIAL INFRASTRUCTURE CORPORATION  
LIMITED, Tower – 1, Plot No – 1, IT Park, Auto Nagar,  
Mangalagiri – 522 503,  
Guntur District, Andhra Pradesh,,Guntur,Andhra Pradesh-522503

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number IA/AP/NCP/261625/2018 dated 30 Mar 2022. The particulars of the environmental clearance granted to the project are as below.

1. EC Identification No.	EC23A031AP110907
2. File No.	21-140/2018-IA.III
3. Project Type	New
4. Category	A
5. Project/Activity including Schedule No.	7(c) Industrial estates/ parks/ complexes/ areas, export processing Zones
6. Name of Project	Development of Industrial Park near Nakkapalli Village, Nakkapalli Mandal, Visakhapatnam District
7. Name of Company/Organization	ANDHRA PRADESH INDUSTRIAL INFRA STRUCTURE CORPORATION
8. Location of Project	Andhra Pradesh
9. TOR Date	12 Jun 2019

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 13/07/2023

(e-signed)  
Amardeep Raju  
Scientist E  
IA - (INFRA-1 sector)

*Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.*

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2. The proposed project is for Development of Industrial Park near Nakkapali Village, Nakkappalli Mandal, Visakhapatnam District, Andhra Pradesh in an area of 144.0276ha (3555 acres). This Project site falls at Latitude 17°21'35.64"N and Longitude 82°42'5.77"E and existing ground elevation is ranging from 0 m to 126 m.

3. ToR was granted vide letter No. 21-140/2018-IA.III dated 12th June 2019 during the 215th meeting held on 20<sup>th</sup> May, 2019.

4. The proposed project falls under 7 (c) Industrial Park, Cat - A as per EIA notification 2006, and its subsequent amendments. Total Project Cost is Rs. 1191.00 Cr.

5. Land use /Land cover of project site is as following:

S.No.	Landuse/Landcover	Area (ha)	Percentage (%)
1	Agriculture Plantation	722.4	50.2
2	Aquaculture/Pisciculture	101.9	7.1
3	Builtup (Rural)	22.7	1.6
4	Crop land	84.1	5.8
6	Forest Plantation	0.1	0.0
7	Forest-Dense	0.0	0.0
8	Lakes/Ponds	6.1	0.4
9	Mining/Industrial	1.2	0.1
10	Reservoir/Tanks	12.3	0.9
11	River/Stream/Drain	30.7	2.1
12	Sandy areas	41.4	2.9
13	Scrub land Dense	229.6	16.0
14	Scrub land Open	186.7	13.0
<b>Total</b>		1439.1	100.0

6. List of industries to be housed with: Types of industries expected to be established in proposed Industrial Park are as following:

S. No	Sector	Sub Sectors	Anticipated Types of Industries/ Activities	Categorisation of Industry as per EIA notification , 2006	Categorization as per CPCB
1	Petrochemical, Chemical including Pharmaceuticals	Pharmaceuticals	Formulation (O), Bulk Drugs (R), Intermediates (R), Herbal medicines (G), bio pharmaceuticals (O).	Category A & B	Red and Orange
		Chemicals & petrochemicals	Petrochemical products, petrochemical based processing industries	Category A & B	Red

			<p>Polypropylene Unit (R), Propylene Intermediates (R) (Cumene- Phenol Acetone-Bisphenol-PC chain; Acrylic acid- Oxo-Alcohols-Acrylates chain; Propylene Oxide-Polyols-Propylene Glycol chain; Acrylonitrile, Epichlorohydrine &amp; Isopropyl alcohol etc.) and Speciality chemical (R) Speciality Chemicals (construction chemicals, electronic chemicals, food additives, mining chemicals, oilfield chemicals, pesticides, plastic additives, printing inks, rubber processing chemicals, specialty paper chemicals, textile chemicals, speciality surfactants, speciality polymers and water management chemicals etc.)</p>		
2	Industrial and Consumer Electronics	Photovoltaic Zone	<p>Polysilicon Ingots (O), Wafer Unit (O), PV Cells &amp; Modules (W), PV Ancillary (W), Medical equipment (W), control equipment (W). defense electronics (O) Communication Equipment (W) (Mobiles/BTS/Router/switches/Dish Antennas), Consumer Electronics (TV/Cameras/set top boxes), Electronic Components (W), Industrial Electronics (W) (Invertors/UPS/LEDs /Energy meters etc.,) and Consumer durables (W) such as Washing machines, Refrigerators, Air</p>	Not Applicable	Orange and White

			conditioners, Microwave ovens, Kitchen equipment, utensils, Brown goods and domestic appliances Pressure cookers, Collapsible tubes, utensils, cutlery, wire products etc.		
3	Industrial Engineering	Auto and Auto components	Manufacture of motor vehicles (R) (such as manufacturing of Tractors, Buses etc.) Manufacture of parts and accessories for motor vehicles (O) (includes parts such as brakes, gearboxes, axles, seats, tyres, rubber products etc.)	Not Applicable	Red, Orange
		Aerospace and defence	Aero engine Components (R) such as Propellers/Rotors, etc. Aero structure Components (R), Fuselage Manufacture (O), Aircraft Construction and Assembly (G, W). Avionics, Aero engine & Aero structure Subassemblies. Manufacture of Military/Defence fighting vehicles/ Defence Electrical and Electronics(R) (Manufacturing of semiconductors, chips, transmitters, R&D etc. Panels, Components, Equipments and Power Systems, Electrical Cable Accessories / Harnesses, Aircraft Interiors Equipment Furnishings, Tooling, Ground Support & Airfield Equipment. Manufacture of communication devices (Telephone sets, incl. telephones for cellular	Not Applicable	Red, Orange Green and White

			networks or for other wireless networks; others, VHF))		
		Engineering	Heavy Engineering Goods	Category A and B for Metallurgical industries for ferrous & non-ferrous	Red, Orange and White
		Industrial Machinery(R),	Mining Machinery, Construction Machinery, Material handling equipment, Metallurgical equipment, Textile machinery, Air pollution control systems, Furnaces, cooling towers etc.		
		Heavy electrical equipment and components (R)	Electrical motors, generators, Boilers, turbines, power cables, inverters, switch gears, Capacitors, transformers etc.		
		Other Industrial Machinery (R)	Printing and Processing Machines, Transmission Shafts		
		Process plant and	Machinery for processing		

			equipment (R)	chemicals, Food, cement, plastics, Hydrocarbons, Pharmaceuticals, sugar, Injection-moulding machines		
			Machine tools (R)	CNC Machines		
			Others (R )	Floating docks and storage vessels		
			Light Engineering (G, W)			
			I. C. Engines and parts	Compression Ignition and Electrical Ignition type IC Engines Compact engines, parts of IC engines		
			Electric manufacturers	Power cables, Electric filament or Discharge lamps, electric wires and cables, Insulated Wires, Electric Conductors and Optical Fibre Cables, Wires and Cables of Oxygen Free Copper, wire ropes etc.		

			Industrial equipment	Industrial Gears, Pumps, compressors, Valves, electric fans, Diesel engines etc.		
			Industrial consumables ( O )	Antifriction Bearings, cutting tools, dry cells copper cathodes and sections of cathodes unwrought,		
			Industrial durables ( G, W )	Aluminium extruded and rolled products		
			Hardware ( G, W )	High tensile fasteners, Industrial fasteners, nuts bolts		
			Metal/Metals Forming			
			Steel pipes and tubes	Seamless pipes and tubes of iron and steel, Welded pipes and Tubes of iron/ steel tube or pipe fittings of iron or steel.		
			Castings and forgings ( O )	Steel, alloy steel and non-ferrous metals for engineering, automobile and shipping sectors		
			Others			
			Manufacture of basic iron and steel (Ferro alloys, wire of steel by cold drawing, tube and tube fittings etc.) and basic			

			<p>precious and other non-ferrous metals) (R )</p> <p>Manufacture of motor vehicles (such as manufacturing of Tractors, Buses etc.) (R )</p> <p>Manufacture of parts and accessories for motor vehicles (includes parts such as brakes, gearboxes, axles, seats, tyres, rubber products etc.) ( O)</p>		
		<p>MSME (includes Leather, Plastics, wood etc.,)</p>	<p>Technical Textiles (W) (Diapers, Non - woven fabric for disposables &amp; wipes, Personal protective equipment (PPEs), hoses, webbings for seat belts, conveyor belts, Tyre Cord Fabric, Teabags filter paper, PCBs, composites, fishnets, Sports-wear, Geotextiles, Medical textiles, heart valves, artificial limbs, implantable materials, bulletproof vests, airbags, parachute fabric, high altitude and flame retardant clothing, architectural membranes etc.). Ginning/ Weaving, Spinning mills, Weaving and Knitting Mills (G).</p> <p>Polymer &amp; Engineering Plastics End Products (W) (Automotive components, Roofing sheets, Pipes, marine boats, hulls and sails, wiring and cables, medical disposables syringes, blood bags, catheters, eye wears, BOPP films, flexible and rigid packaging products, writing instruments, household goods, furniture, electrical</p>	<p>Not Applicable</p>	<p>Orange, Green and White</p>



			<p>accessories, toys, window and door profiles, roto moulded tanks, floor coverings, GRP Pipes, FIBC (Flexible intermediate bulk containers), drums, moulded luggage etc.).  Leather Products (G/W) such as Sports goods excluding tanning and hide processing Plastic products (G/W) for Packaging, automobile, consumer durables, healthcare, etc. by Injection, Blow Moulding, Extrusion etc.,  Polyurethane Products (O) (Rigid and flexible foams, Furniture &amp; bedding, car seats, automotive components (bumper panels, steering wheels, dashboards, door panels, instrument panels etc.), Construction &amp; building products, footwear, appliances, Cold Insulations, CASE (coatings, adhesives, sealants and elastomers) etc.)</p>		
4.	Building Materials Industry/Non-Metallic minerals	Building Materials Industry/Non-Metallic minerals	Tiles, Ceramics and refractories, glass and glassware, graphite, marbles, processed minerals, Clay building products, bricks, AAC Blocks, Kerb Stones etc.	Not Applicable	Red, Orange and Green
5	Marine logistics/Storage and compatible activities	CRZ permissible hazardous material storages	Isolated storage & handling of hazardous chemicals (As per threshold planning quantity indicated in column 3 of schedule 2 & 3 of MSIHC Rules 1989 amended 2000)	Category B	Red

7. Land use area for the types of industries expected to be established in proposed Industrial Park are as following:

S.No	Land Use	Area in Acres	Area (%)
1	<b>Industrial Sectors</b>		
2	Industrial Engineering	664.8	18.7
3	Building Materials	102.7	2.9
4	Industrial and consumer electronics	481.2	13.5
5	Petrochemical, Chemical including Pharmaceuticals	258.2	7.3
<b>6</b>	<b>Industrial Area</b>	<b>1506.9</b>	<b>42.39</b>
7	Marine Logistics	207.4	5.83
8	Un utilized Hill	355.9	10.01
9	Amenities	29.1	0.82
10	Utility	127.4	3.61
11	Residential/social infrastructure	83	2.33
12	Settlements	45.7	1.28
13	Logistics	29.1	0.82
14	Green	588	16.52
15	SST	27	0.76
16	Supporting facilities	11.1	0.31
17	Roads	363.6	10.2
18	Revenue Water body	180.8	5.08
	<b>Total</b>	<b>3555(144.0276ha)</b>	<b>100</b>

8. The hillock is located on the North west direction of the project boundary over an area of 356 acres of the residential area on the top of the hill is excluded as it involves cutting of top hill as per EAC recommendation. An area of about 37.6 acres is only planned on the foothill side as the residential area by excluding the hill top. Vegetation on the hill top will remain untouched.

9. Water Bodies & impact on Drainage: Bay of Bengal – Abutting and Tandava Nadi is 6.9 km –SW.

10. Water requirements: Total water demand for the proposed IP is ~17.60 MLD but considering the reuse of ~1.61 MLD of treated sewage from the STP, the net freshwater demand is ~15.99 MLD, will be sourced from Yeleru Left Main Canal located north to site. Water supply approval for Nakkapalli I.P has already been obtained from Visakhapatnam Industrial Water Supply Company Limited (VIWSCO), GoAP. The withdrawal of groundwater is not envisaged as a part of proposed development.

11. Waste water Management: Total Industrial Wastewater generation is proposed up to 5.27 MLD and total 2.95 MLD sewage generation is proposed. Industrial wastewater shall be treated in the proposed CETPs up to discharge standards and through marine outfall discharging into sea. Industrial wastewater shall be treated within industry premise and treated wastewater will be reused within the industry. CETPs shall have a temporary storage facility for 30 days, wastes shall

be periodically disposed to nearby TSDF. Sludge generated from STP shall be composted and will be used as manure for greenbelt/ green areas development. Estimated MSW generation is 18.5 TPD and Industrial Solid Waste is 79.5 TPD. The solid waste generated from the proposed project will be segregated as Municipal waste, Hazardous waste & E-Waste. Municipal waste generated will be disposed to local bins for further treatment and disposal. Individual industries generating hazardous waste shall be sent through authorized waste handler for further treatment and disposal. E-Waste generated will be collected, stored and transported to authorised recyclers. Solid Waste Management Rules, 2016 and Construction & Demolition Waste Management Rules, 2016 (as amended) will be followed for environmental sound management of respective waste. Hazardous and other waste Management Rules, 2016 (as amended) will be followed for environmental sound management of hazardous waste. Hazardous wastes will be disposed through approved APPCB/CPCB vendors to nearby TSDF.

12. CETP details: APIIC shall develop CETPs (two Streams) for non-pharma and pharma, chemical and petrochemical units separately on modular basis based on industrial wastewater generation. The treated wastewater from CETP will be disposed into sea through marine outfall facility. To begin, APIIC proposes to establish a 2.04 MLD CETP as 1st module and remaining will be developed in modular basis inline to requirements and demand. For CETP 1, the High TDiS wastewater volume is expected to be about 223 KLD and the Low TDiS wastewater is expected to be about 300 KLD. For CETP 2, the Low TDiS wastewater volume is expected to be about 1388 KLD and 130 KLD of the metal pre-treatment and finishing wastewater expected from the engineering /Auto/aerospace/Industrial Electronics Sectors.

13. STP details: The sewage from residential areas will be treated in STP which will be developed on modular basis. Sequencing Batch Reactor (SBR) system is proposed for sewage treatment. SBR system is a fill and draw activated sludge system. High-efficiency oxygen transfer aeration equipment shall be used in SBR process to satisfy the high-rate oxygen consumption requirement at the starting of the “fill” and “aeration” cycles. The total estimated STP capacity for overall development area is ~2.95 MLD. The treated sewage shall be stored as non-potable water having detention time of minimum 24 hours. Separate water distribution network is being proposed to provide for non-potable supply. Treated sewage will be reused for greenbelt and toilet flushing etc.

14. Public hearing: Public hearing was conducted Visakhapatnam district on 25<sup>th</sup> November, 2020 the details are following:

S.no	Date	Venue	Chaired by	District
1	25 <sup>th</sup> November 2020	At project site	Joint Collector and Additional District Magistrate	Visakhapatnam

15. Tree cutting and Green Belt Development: Approximately 2705 naturally grown trees will be involved in tree cutting apart from the commercial plantations. Major visible trees are Borassus flabellifer (Thaadi), Casuarina equisetifolia (Sarugudu), Anacardium occidentale (Jeedi mamidi), Acacia auriculiformis (Australia Tumma) & Eucalyptus globulus (Neelagiri chettu). In the proposed Industrial Park, an area of 690 acres is allotted as green area, which covers around 17.7% of total area. Adequate green peripheral buffers (15m) are provided all along the project boundary. Adequate green buffer (50m) is provided near settlements, water bodies (as per norms), etc.

landscaped green spaces will be provided & will serve as lung space for the industrial park. Approximately 4,65,000 numbers of trees are proposed to be planted in Nakkapalli IP. The survival of the plantation shall be monitored frequently and survival rate of the plantation during operational phase shall not be less than 80%. A capital cost of INR 62.13 million (6.13 Crores) shall be earmarked for this purpose and INR of 3.11 million (0.31 Crores) shall be allocated for recurring expenses per annum towards green belt development and maintenance.

16. Diversion of forest land: There is no involvement of diversion of forest land.

17. There is no National Parks, Sanctuaries and Tiger Reserves, Eco-Sensitive Zone (ESZ) or Eco-Sensitive Area (ESA) notified by the MoEF&CC within 10 km of proposed project site.

18. Energy conservation and Rain Water Harvesting: Estimated Installation Capacity for Solar Power Harnessing is 10.10 MW. Estimated Volume of run-off that can be harvested will be 3193760 Volume (m<sup>3</sup>)/year. Rainwater harvesting techniques will be adopted at park and industrial level.

19. CRZ area: The proposed project is in CRZ area (Non-Eroding Coast). NCSCM has conducted HTL/LTL demarcation studies within 7km radius of project site. The project development area does not fall or contain any environmentally sensitive areas as specified in CRZ Notification and that the project area meets the regulations of CRZ Notification, 2011. CRZ area of 288.57 acres (7.4%) will be utilised storage of chemicals/petroleum products as permissible under CRZ notification, 2011 as applicable. The proposed Marine outfall for CETP treated wastewater will pass through the CRZ areas. There is a backwater/stream flowing within the site and a buffer of 100 m or width of the creek as per CRZ regulation is proposed and green areas will be developed in the buffer area.

- i. The proposed project activities such as Marine Logistics/Storage & Other Compatible Activities falls on(a). The intertidal zone (CRZ 1B - Creek), (b). CRZ III - No Development Zone (NDZ) (HTL to 200 m and 100 m from creek or width of the creek whichever is less) and CRZ III (200 to 500 m from HTL).
- ii. The proposed green area falls on CRZ III - No Development Zone (NDZ) (HTL to 200 m and 100 m from creek or width of the creek whichever is less).
- iii. The proposed roads falls on the CRZ III of Creek, CRZ 1B of creek, CRZ III (200 to 500m), NDZ and CRZ IVB (Creek). iv. Proposed Supporting Facilities such as pipelines, conveying systems, power cables/transmission lines, falls on CRZ 1B, CRZ III, CRZ IVB and CRZ IVA (Marine outfall pipeline).
- iv. APCZMA vide letter no.332/CRZ/CON/2021 dated 18.01.2022 recommended the proposal to the Ministry with the no objection.

20. Marine disposal: The proposed project involves marine disposal. NoC from APPCB obtained on August 17, 2021; outfall location: 17°20'12.05"N & 82°42'34.98"E.

21. Land acquisition and R&R issues: Compensation for land and structure are paid as per G.O 160 issued by GoAP dated November 16, 2016 and District collector orders vide File No. REV-ESECOLND(ATGL)82/2017-JA(E3)-VSKPCO/Dt:19-07-2018. As such no R&R is proposed



for the settlements existing in the project boundary. Compensation for the lands, trees and structures if any involved in land acquisition for development of IP would be decided by the District Collector and APIIC would pay the compensation accordingly.

22. Employment Potential: During the construction phase a total of 1200 employees will get employment. During operation phase will get employment of 30,800 of direct employment and 2.5 times of direct employment as indirect employment. Local people will be getting a large employment opportunity and would be given preference for employment based on their skill set.

23. Benefits of the Project: The project shall meet the growing needs of manufacturing sector and will provide better quality of educational and medical facilities to the local people, socio economic benefit to the locals by providing both indirect employment and direct employment. There will be positive impact on social conditions in and around the site due to the Industrial Area.

24. Details of Court cases: No court case is pending against the proposed project.

25. The EAC, after examining the documents submitted by the project proponent and detailed deliberations in its 328<sup>th</sup> meeting of Expert Appraisal Committee held on 26<sup>th</sup> May, 2023, recommended the project for grant of Environmental Clearance with stipulated specific conditions along with other Standard EC Conditions applicable for such projects.

26. The Ministry of Environment, Forest and Climate Change has considered the proposal based on the recommendations of the Expert Appraisal Committee (Infrastructure, CRZ and other Miscellaneous projects) and hereby decided to grant Environmental Clearance for the 'Development of Industrial Park near Nakkapali Village, Nakkappalli Mandal, Visakhapatnam District, Andhra Pradesh in an area of 144.0276ha (3555 acres) by M/s Andhra Pradesh Industrial Infrastructure Corporation Ltd. (APIIC)' under the EIA Notification, 2006 as amended and CRZ Notification 2011, subject to strict compliance of the following specific conditions, in addition to all standard conditions applicable for such projects.

#### **A. SPECIFIC CONDITIONS**

- i. The Environmental and CRZ Clearance to the project is primarily under provisions of EIA Notification, 2006 and CRZ Notification, 2011. It does not tantamount to approvals/consent/permissions etc required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes as applicable to the project.
- ii. Construction activity shall be carried out strictly according to the provisions of the CRZ Notification, 2011. No construction works other than those permitted in Coastal
- iii. All the recommendations and conditions specified by the Andhra Pradesh Coastal Zone Management Authority (APCZMA) vide letter No. 332/CRZ/CON/2011 dated 18th January, 2022 shall be complied with.
- iv. Necessary approvals be taken during implementation and commissioning from statutory



bodies concerned.

- v. The hillock is located on the North west direction of the project boundary over an area of 356 acres of the residential area on the top of the hill shall excluded as it involves cutting of top hill. An area of about 37.6 acres is shall only planned on the foothill side as the residential area by excluding the hill top. Vegetation on the hill top will remain untouched.
- vi. The Project proponent shall ensure that no creeks or rivers are blocked due to any activities at the project site and free flow of water is maintained. Creek water monitoring program shall be implemented during the construction phase.
- vii. Marine ecological monitoring and its mitigation measures for protection of phytoplankton, zooplanktons, macrobenthos, estuaries, sea-grass, algae, sea weeds, Crustaceans, Fishes, coral reefs and mangroves etc. as given in the EIA-EMP Report shall be complied with in letter and spirit.
- viii. The schedule of implementation for the recommendations of the rapid risk assessment report, disaster management plan and safety guidelines shall be prepared and submitted to the Ministry within 3 months. All the recommendations mentioned in the rapid risk assessment report, disaster management plan and safety guidelines shall be implemented in time bound manner. The compliance to the recommendations as per schedule shall be submitted along with 6 monthly compliance reports to the regional office of MoEF&CC. Necessary arrangement for general safety and occupational health of people should be done in letter and spirit.
- ix. The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- x. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms. PESO certificate shall be obtained.
- xi. Action Plan for firefighting system including provision for flame detectors, temperature actuated heat detectors with alarms, automatic sprinkler system, fixing the location of fire water tanks, separate power system for firefighting, involvement of qualified and trained fire personnel, nearest fire station & time required to reach the proposed site shall be prepared and implemented.
- xii. APIIC shall develop CETPs (two Streams) for non-pharma and pharma, chemical and petrochemical units separately on modular basis based on industrial wastewater generation.
- xiii. The member units shall provide storage tanks for storage of effluent for monitoring the characteristics of effluent before taking into the CETP for further treatment.
- xiv. Proper meters with recording facilities shall be provided to monitor the effluent quality



and quantity sent from member industries to CETP and from CETP to re-use on a continuous basis.

- xv. Process organic residue and spent carbon, if any, shall be sent to Cement and other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
- xvi. Domestic effluent shall be treated in Sewage Treatment Plant. MSW waste shall be treated in digester and recovered gas shall be used in the canteen.
- xvii. Continuous online (24x7) monitoring system for stack emissions/effluent shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- xviii. Ambient noise levels shall conform to the prescribed standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during development/ construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/SPCB.
- xix. The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.
- xx. All the commitments made to the public during the Public Hearing/Public Consultation shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
- xxi. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured/recorded to ensure the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six Monthly Monitoring reports.
- xxii. 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 and 25th January, 2016.
- xxiii. Rain water harvesting for roof run-off and surface run-off, as plan submitted shall 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 shall



be kept at least 4 mts above the highest ground water table.

- xxiv. All the recommendation of the EMP shall be complied with in letter and spirit and be submitted to the Regional Office, MoEF&CC along with six Monthly Monitoring reports.
- xxv. As per the Ministry's Office Memorandum F. No. 22-65/2017-IA.III dated 30<sup>th</sup> September, 2020, the project proponent shall abide by all the commitments made by them to address the concerns raised during the public consultation. The project proponent shall initiate the activities proposed by them, based on the commitment made in the public hearing, and incorporate in the Environmental Management Plan and submit to the Ministry. All other activities including pollution control, environmental protection and conservation, R&R, wildlife and forest conservation/protection measures including the NPV, Compensatory Aforestation etc, either proposed by the project proponent based on the social impact assessment and R&R action plan carried out during the preparation of EIA report or prescribed by EAC, shall also be implemented and become part of EMP.

## **B. STANDARD CONDITIONS:**

### **I. Statutory compliance:**

- (i) The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (incase of the presence of schedule-I species in the study area).
- (ii) The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
- (iii) All excavation related dewatering shall be as duly authorized by the CGWA. A NOC from the CGWA shall be obtained for all dewatering and ground water abstraction
- (iv) A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- (v) All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Coast Guard, Civil Aviation Department shall be obtained, as applicable by project proponents from the respective competent authorities.

### **II. Air quality monitoring and preservation:**

- (i) The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM<sub>10</sub> and PM<sub>2.5</sub> in reference to PM emission, and SO<sub>2</sub> and NO<sub>x</sub> in reference to SO<sub>2</sub> and NO<sub>x</sub> emissions) within and outside the project area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.





- (ii) Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed emission standards.
- (iii) Dust collectors shall be deployed in all areas where surface cleaning and painting operations are to be carried out, supplemented by stacks for effective dispersion.
- (iv) Diesel power generating sets proposed as source of backup power 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 of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
- (v) A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

### **III. Water quality monitoring and preservation:**

- (i) Total fresh water use shall not exceed the proposed requirement as provided in the project details. Prior permission from competent authority shall be obtained for use of fresh water.
- (ii) Sewage Treatment Plant shall be provided to treat the wastewater generated from the project. Treated water shall be reused for horticulture, flushing, backwash, HVAC purposes and dust suppression.
- (iii) A certificate from the competent authority for discharging treated effluent/ untreated effluents into the Public sewer/ disposal/drainage systems along with the final disposal point should be obtained.
- (iv) No diversion of the natural course of the river shall be made without prior permission from the Ministry of Water resources.

### **IV. Noise monitoring and prevention:**

- (i) Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- (ii) Noise from vehicles, power machinery and equipment on-site should not exceed the prescribed limit. Equipment should be regularly serviced. Attention should also be given to muffler maintenance and enclosure of noisy equipments.
- (iii) Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.



- (iv) The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

#### **V. Energy Conservation measures:**

- (i) Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
- (ii) Provide LED lights in their offices and project areas.

#### **VI. Waste management:**

- (i) Necessary arrangements for the treatment of the effluents and solid wastes must be made and it must be ensured that they conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986.
- (ii) The solid wastes shall be managed and disposed as per the norms of the Solid Waste Management Rules, 2016.
- (iii) Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.
- (iv) A certificate from the competent authority handling municipal solid wastes should be obtained, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project.
- (v) 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.

#### **VII. Green Belt:**

- (i) An overall green area of at-least 33% of the Industrial Area should be developed with native species. The project proponent of the Industrial Area shall comply with the additional commitment made by them in the EIA report regarding the development of green belt.
- (ii) The Industrial Areas are directed to accordingly allocate the area to be developed as green cover to respective individual industrial units so as to achieve the above mentioned condition.
- (iii) The individual industrial unit, at the time of obtaining EC, shall bring a letter from the Industrial Area for the area allocated to them to be developed as green cover as a part of obligation from the Industrial Area.
- (iv) Wherever possible, plantations around the periphery of the Industrial Area, in the downwind direction and along the road sides shall be provided for containment of pollution and for formation of a screen between the industrial area and the outer civil area. The choice of plants should include shrubs of height 1 to 1.5 m and tree of 3 to 5 m height. The intermixing of trees and shrubs should be such that the foliage area density in vertical is almost uniform.
- (v) The parameters like selection of plant species, procedure for plantation, density of tree plantation etc shall be as per the CPCB guidelines.

#### **VIII. Public hearing and human health issues:**



- (i) Workers shall be strictly enforced to wear personal protective equipments like dust mask, ear muffs or ear plugs, whenever and wherever necessary/ required. Special visco-elastic gloves will be used by labour exposed to hazards from vibration.
- (ii) Safety training shall be given to all workers specific to their work area and every worker and employee will be engaged in fire hazard awareness training and mock drills which will be conducted regularly. All standard safety and occupational hazard measures shall be implemented and monitored by the concerned officials to prevent the occurrence of untoward incidents/ accidents.
- (iii) Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- (iv) 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.
- (v) Occupational health surveillance of the workers shall be done on a regular basis.

#### **X. Environment Responsibility:**

- (i) The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- (ii) A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
- (iii) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- (iv) Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

#### **XI. Miscellaneous:**

- (i) The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.



- (ii) The copies of the environmental clearance shall be submitted by the project proponents 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.
- (iii) The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- (iv) The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- (v) The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- (vi) The criteria pollutant levels namely; PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- (vii) The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- (viii) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- (ix) The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- (x) No further expansion or modifications in the Industrial Area shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- (xi) Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- (xii) The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- (xiii) The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- (xiv) The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- (xv) The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed



by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

(xvi) Any appeal against this EC 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.

17. This issues with the approval of the Competent Authority.



(Amardeep Raju)  
Scientist-E

**Copy to:**

1. The Principal Secretary, Department of Environment, Forest, Science & Technology, Government of Andhra Pradesh, Hyderabad, A.P.
2. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -32
3. The Additional Principal Chief Conservator of Forests (C), Aranya Bhavan, K.M. Munshi Road, Nagarampalem, Guntur-522 004, Andhra Pradesh.
4. The Member Secretary. Andhra Pradesh Coastal Zone Management Authority. (APCZMA), D.No.33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre, Chlamavari Street, Kasturibaipet, Vijayawada-520010.
5. The Member Secretary, Andhra Pradesh Pollution Control Board, Chalamalavaii Street, Kasturibaipet, Vijayawada - 520 010.
6. Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
7. Guard File/Record File
8. Notice Board.



(Amardeep Raju)  
Scientist-E

**Signature Not Verified**  
Digitally signed by Amardeep Raju  
Scientist E  
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