



File No: 21-139/2018-IA.III
Government of India
Ministry of Environment, Forest and
Climate Change
IA Division



Date 27/07/2024



To,

Vice Chairman and Managing Director VCMD
Andhra Pradesh Industrial Infra Structure Corporation
Tower-1, Plot No-1, IT Park, Auto Nagar, Mangalagiri, Guntur, Andhra Pradesh-522503.
apiicempcell@gmail.com

Subject: Development of Industrial Park in an area of 986.17 ha located in Z. Chintuva, Gorapudi, Krishnampalem and Lalamkoduru villages of Rambilli Mandal in Visakhapatnam District by M/s Andhra Pradesh Industrial Infrastructure Corporation (APIIC) Limited- Environmental and CRZ Clearance-reg.

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/AP/INFRA1/464535/2024 dated 02/05/2024 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24A3101AP5553409N
(ii) File No.	21-139/2018-IA.III
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	7(c) Industrial estates/ parks/ complexes/ areas, export processing Zones (EPZs), Special Economic Zones
(vi) Sector	INFRA-1
(vii) Name of Project	Development of Industrial Park in Z. Chintuva, Gorapudi, Krishnampalem and Lalamkoduru villages of Rambilli Mandal in Anakapalli District
(viii) Name of Company/Organization	ANDHRA PRADESH INDUSTRIAL INFRA STRUCTURE CORPORATION
(ix) Location of Project (District, State)	ANAKAPALLI, ANDHRA PRADESH
(x) Issuing Authority	MoEF&CC
(xi) Applicability of General Conditions as per	No

EIA Notification, 2006

3. The aforementioned proposal was placed before the EAC during its 364th meeting of Expert Appraisal Committee held on 15th May, 2024. The project proponent and EIA consultant M/s.Qssystem L&T Infrastructure Engineering Ltd, made presentation through video conferencing and submitted the following information:

4. The proposal is for 'Development of Industrial Park in an area of 1025ha located in Z. Chintuva, Gorapudi, Krishnampalem and Lalamkoduru villages of Rambilli Mandal in Visakhapatnam District by M/s Andhra Pradesh Industrial Infrastructure Corporation (APIIC) Limited. This Project site falls between Latitude 17°27'37.52" N to 17°30'19.34" N and Longitude 82°56'0.39" E to 82°59'22.95" E.

5. The proposed project falls under 7(c), Industrial Estates/parks/Complexes/ areas, export processing Zones (EPZs), Special Economic Zones (SEZs), Category A. the total cost of the project is Rs. 681 Cr.

6. Terms of References (ToR) details: The ToR proposal was considered in the 204th EAC meeting on 17th December, 2018 and 222nd meeting on 20th August, 2019, the committee recommended for grant of the ToR, Ministry granted the ToR vide letter No. 21-139/2018-IA.III dated 18th November, 2019.

7. Public Hearing Details: Public hearing was conducted on 23rd September, 2021 at Project site, Z.Chintuva, Gorapudi, Krishnampalem and Lalamkoduru villages of Rambilli Mandal in Visakhapatnam District, presided by the District Revenue Officer & Addl. District Magistrate.

8. Land use Land cover of the Project Site.

S.No	Classes	Area (Ha)	Area (acres)	Percentage(%)
1	Agriculture Plantation	577.70	1427.53	58.60%
2	Crop land	285.47	705.41	28.96%
3	Builtup (Rural)	22.96	55.96	2.30%
4	Scrub land Open	75.08	185.42	7.61%
5	Reservoir/Tanks	17.67	43.66	1.79%
6	River/Stream/Drain	7.29	18.02	0.74%
Total		985.81	2436.00	100.00%

9. List to industries to be housed with the proposed project site, only for projects covered under 7(c) category of EIA Notification, 2006:

S.no	Possible Sector	Anticipated Types of Industries/ Activities	Categorisation of Industry as per EIA notification, 2006	Categorization as per CPCB
1	Pharmaceuticals	Formulation, Bulk Drugs, Intermediates, Herbal medicines, Biopharmaceuticals, Basic chemicals, laboratory Chemicals involving distillation, purification process, Herbal Extraction, production of cosmetics, manufacturing of soaps, Organic Chemicals (Methane to methanol and menthol based),	Category A & B	Red and Orange
2	Chemicals & petrochemicals	inorganic Chemicals (Industrial gases, acids), speciality chemicals, Agro chemicals such as Pesticides/ Insecticides/ Fungicides/ Herbicides /Agrochemical formulation, NPK Fertilisers/ Granulation, water treatment chemicals etc. Petrochemical products, petrochemical based processing industries	Category A & B	Red and Orange
3	Industrial and	Medical equipment, defence electronics,	Not Applicable	Red, Orange and

	Consumer Electronics	control equipment. Solar panels and module. Communication Equipment (Mobiles/BTS/Router/switches/Dish Antennas)), Consumer Electronics (TV/Cameras/set top boxes), Electronic Components, Industrial Electronics (Invertors/UPS/LEDs /Energy meters etc.), and Consumer durables such as Washing machines, Refrigerators, Air conditioners, Microwave ovens, Kitchen equipment, utensils, Brown goods and domestic appliances Pressure cookers, Collapsible tubes, utensils, cutlery, wire products etc.		White
4	Auto and Auto components	Manufacture of motor vehicles (such as manufacturing of Tractors, Buses etc.) Manufacture of parts and accessories for motor vehicles (includes parts such as brakes, gearboxes, axles, seats, tyres, rubber products etc.) Aero engine Components such as Propellers/Rotors, etc. Aero structure Components, Fuselage Manufacture, Aircraft Construction and Assembly. Avionics, Aero engine & Aero structure Subassemblies. Manufacture of Military/Defence fighting vehicles/ Defence Electrical and Electronics (Manufacturing of semiconductors, chips, transmitters, R&D etc.	Not Applicable	Red, Orange and White
5	Aerospace and defence	Panels, Components, Equipment 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 networks or for other wireless networks; others, VHF)) Industrial Machinery Mining Machinery, Construction Machinery, Material handling equipment, Metallurgical equipment, Textile machinery, Air pollution control systems, Furnaces, cooling towers etc. Heavy electrical equipment and components.	Not Applicable	Red, Orange & White.
6	Engineering Industries (Machinery/ Electrical Equipment's/ Automobile etc.,)	Electrical motors, generators, Boilers, turbines, power cables, inverters, switch gears, Capacitors, transformers etc Process plant and equipment Machinery for processing chemicals, Food, cement, plastics, Hydrocarbons, Pharmaceuticals, sugar, Injection- moulding machines Others: Manufacture of basic iron and steel (Ferro alloys, wire of steel by cold drawing, tube and tube fittings etc.) and basic precious	(Category A and B for Metallurgical industries for ferrous & non-ferrous)	Red, Orange and White

		and other non-ferrous metals) Manufacture of motor vehicles (such as manufacturing of Tractors, Buses etc.) Manufacture of parts and accessories for motor vehicles (includes parts such as brakes, gearboxes, axles, seats, tyres, rubber products etc.)		
7	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
8	MSME (includes Leather, Plastics, wood etc.,)	Leather Products such as Sports goods excluding tanning and hide processing Plastic products for Packaging, automobile, consumer durables, healthcare, etc. by Injection, Blow Moulding, Extrusion etc., Timber/ Wood Products such as Furniture, Sports goods, Wood Flooring etc.	Not Applicable	Orange, Green and White
9	Food and Agro Processing Industry	Processing and preserving of fruit and vegetables, Manufacture of grain mill products, starches and starch products (includes flour milling, rice milling, milling of other grains), Manufacture of cocoa, chocolate and sugar confectionery, Manufacture of macaroni, noodles, couscous and similar farinaceous products, Manufacture of prepared meals and dishes, Manufacture of other food products, non-alcoholic beverages (soft drink) & bottling of alcohol/non-alcoholic products Processing and preserving of meat (includes production, processing and preserving of meat and meat) products, aqua food related processing (fish and prawns etc.) Manufacture of dairy products (includes manufacturing of milk, milk powder, ice cream etc.) Manufacture of other food products (includes manufacture of bakery products Processing of edible nuts etc.) Manufacture of prepared animal feeds (manufacture of cattle feed, poultry feed, feed for pets etc.) Ginning/ Weaving, Spinning mills, Weaving and Knitting Mills cotton and manmade fabrics and apparels manufacturing; technical textiles (Mainly textile based) and handloom. No Yarn / Textile processing involving any effluent/emission generating processes including bleaching, dyeing, printing and colouring is proposed	Not Applicable	Red, Orange Green and White
11	Apparels and Textile Industry		Category A and B for manmade fibres manufacturing	Red, Orange, Green and White

10. Terrain and topographical features: Flat terrain with levels varying from 0m to 55m, sloping towards the south.

11. Details of water bodies, impact on drainage: Bay of Bengal is located at the distance of – 0.2, km in eastern side of the project.

12. Water requirements: Water requirement during the construction phase is 1 MLD and will be partly sourced water supply scheme of YLMC and partly from local Municipality/ panchayat. The Net total daily raw requirement or make up water during the operation phase will be about 18.26 MLD and will be sourced from Yeleru Left Main Canal located north to site. Water supply approval for Rambilli 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.

13. Diversion of Forest land: The project does not involves diversion of forest land. The project is not located within 10 km of Protected Areas (PA) including National Parks, Sanctuaries and Tiger Reserves etc. The project is located within the Eco-Sensitive Zone (ESZ) or Eco-Sensitive Area (ESA) notified by the MoEF&CC.

14. Waste Management: Total Industrial Wastewater generation is 7.28 MLD. Total sewage generation is 0.91 MLD. 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. CETP's: 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. APIIC proposes to establish a 2.04 MLD CETP on modular basis inline to requirements and demand. For CETP 1, the High TDS wastewater volume is expected to be about 223 KLD and the Low TDS wastewater is expected to be about 300 KLD. For CETP 2, the Low TDS wastewater volume is expected to be about 1388 KLD and 127 KLD of the metal pre-treatment and finishing wastewater expected from the engineering /Auto/aerospace/Industrial Electronics Sectors. Three separate wastewater conveyance networks are provided, one for Non-Pharma Industries LTDiS, one for Pharma Industries LTDiS stream and one for Pharma Industries HTDiS. CETPs shall have a temporary storage facility for 90 days, wastes shall be periodically disposed to nearby TSDF. The wastewater comprising of industrial effluent and sewage (single stream) will be collected and conveyed to CETP's through respective LTDiS. stream conveyance system for further treatment. Approximate length of marine disposal is 4.7 km out of which 2.2 km is on land and balance 2.5 km is in sea. NoC from APPCB obtained on December 15, 2021; outfall location: 17° 26' 20.58" N & 82°57' 44.53"E. The estimated quantity of sludge to be generated in the CETP 1&2 is about 2.15Tons/ Day. The sludge and salts generated from the proposed CETP have to be disposed at Hazardous Waste Disposal Facility. The nearest facility is located in Vishakhapatnam (Pharma city) which is around 21 km from Rambilli.

15. STP details: The total estimated STP capacity for overall development area is ~0.91 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. 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 sewage from residential areas will be treated in STP which will be developed on modular basis. Sludge generated from STP shall be composted and will be used as manure for greenbelt/ green areas development. Estimated MSW generation is 26 TPD and Industrial Solid Waste is 88 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 wastes will be disposed through approved APPCB/CPCB vendors to nearby TSDF.

16. Details of tree cutting and green belt development: Approximately 100 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), Phoenix sylvestris (Eetha), Mangifera indica (Mango), Annona squamosa (Seethaphal), Wrightia tinctoria (Ankudu), Cocos nucifera (Kobbari). In the proposed Industrial Park, an area of 447.6 acres is allotted as green area, which covers around 18.4 % 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 4,53,865 numbers of trees are proposed to be planted in Rambilli 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 45.38 million (4.53 Crores) shall be earmarked for this purpose and INR of 12.1 million (0.21 Crores) shall be allocated for recurring expenses per annum towards green belt development and maintenance.

17. CRZ area: 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, 2011 and that the project area meets the regulations of CRZ Notification, 2011. The proposed project boundary pass through CRZ categories such CRZ 1B, CRZ III, NDZ of CRZ III and CRZ IV B. the details of area covered under CRZ area is as following:

S.No.	Infrastructure Facility	Falling in CRZ Area with Classification							
1.	Marine outfall for discharge of treated wastewater	CRZ I(B), CRZ III, CRZ IV							
2.	Roads	CRZ I(B), CRZ III, CRZ IV							
	Green belt	CRZ III							
18. The activities proposed within CRZ area are as following:									
Project activities	Total Area in Acres	CRZ-IA	IB (Intertidal zone)	CRZ-III NDZ (No Development Zone(NDZ))	200m to 500 m from CRZ HTL- CRZ III	CRZ IV-A	CRZ IV B	Total Area/Length	Outside the CRZ classified area
Proposed Project Activities (area in acres) – Roads and Greenbelt	2436.84	-	0.14	0.28	56.32	-	-	56.74	2380.10
Proposed Marine Outfall (length in meter) - Pipeline	4687.10	-	82.79	230.70	600.98	2413.30	-	3327.5	1359.60

19. The proposed Marine outfall for CETP treated wastewater will pass through the CRZ areas. Approximate length of marine disposal is 4.7 km out of which 2.2 km is on land and 2.5 km is on sea. APCZMA recommendation was obtained vide letter No.536/CRZ/CON/2023-1097 dated 12.03.2024. Indian peafowl, Olive Ridley Turtle nesting is reported nearly 9.3 km from the Project area).

20. Energy conservation measures with an estimated saving: Estimated Installation Capacity for Solar Power Harnessing is 97.51 MW.

21. Details of Rainwater Harvesting: Estimated Volume of run-off that can be harvested will be 2974268.77m3/year. Rainwater harvesting techniques will be adopted at park and industrial level.

22. Land acquisition and R&R issues involved: 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. R&R is proposed for the settlements at Krishnampalem existing in the project boundary.

23. Employment potential: During the construction phase a total of 1200 employees will get employment. During operation phase will get employment of 39000 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.

24. Benefits of the project: The proposed Industrial park is expected to bring several benefits in the region as well as lead to the development of the country. Generation of different types of direct and indirect employment in and around the project and region. Increasing of social infrastructure, i.e. roads, transportation etc. Provision of skill development activities to the employable youth in the region, and to provide the employment within the project.

25. Details of Court cases: There is no court case involved in the proposed project.

26. The EAC, taking into account the submission made by the project proponent had a detailed deliberation in its 364th meeting held on 15th May, 2024 and recommended the project for grant of environment and CRZ clearance for 'Development of Industrial Park in an area of 986.17 ha located in Z. Chintuva, Gorapudi, Krishnampalem and Lalamkoduru villages of Rambilli Mandal in Visakhapatnam District by M/s Andhra Pradesh Industrial Infrastructure Corporation (APIIC) Limited' subject to all specific and standard conditions applicable for such projects.

27. 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 and CRZ Clearance for the 'Development of 'Development of Industrial Park in an area of 986.17 ha located in Z. Chintuva, Gorapudi, Krishnampalem and Lalamkoduru villages of Rambilli Mandal in Visakhapatnam District by M/s Andhra Pradesh Industrial Infrastructure Corporation (APIIC) Limited' under the EIA Notification, 2006 as amended subject to strict compliance of the following specific conditions, in addition to all standard conditions applicable for such projects.

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

Copy To

1. The Principal Secretary, Department of Environment, Forest, Science & Technology, Government of Andhra Pradesh, Room No-268, First Floor, Building No-4, A.P. Secretariat, Velagapudi, Amaravati, Andhra Pradesh-522503.
2. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -32
3. The Inspector General of Forests (C), Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Vijayawada Green House Complex, Gopalareddy Road, Vijayawada – 520010, 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.

Annexure 1

Specific EC Conditions for (Industrial Estates/ Parks/ Complexes/ Areas, Export Processing Zones (Epzs), Special Economic Zones)

1. Specific Conditions

S. No	EC Conditions
1.1	i. Construction activity shall be carried out strictly according to the provisions of the CRZ

S. No	EC Conditions
	<p>Notification, 2011. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.</p> <p>ii. A small hillock is located inside the proposed industrial estate which shall not be disturbed. Restoration Plan of the hillock including soil and water conservation measures and afforestation plan shall be prepared in consultation with concerned state forest department/concerned forest division and, shall be implemented at the project cost..</p> <p>iii. PP shall prepare a separate Biodiversity management and conservation plan including conservation plan for Schedule 1 species in the areas in consultation with the state forest department and shall get approval/recommendations of the concern state forest department and all commitments made in the biodiversity Management & Conservation Plan shall be implemented in letter and spirit. The Plan shall be submitted to the IRO of MoEF&CC within 3 months of the issue of EC. And status of implementation of Wildlife Management & Conservation Plan shall be submitted to the Regional Office of the Ministry along with 6 monthly compliance reports.</p> <p>iv. All the recommendations and conditions specified by the Andhra State Coastal Zone Management Authority (APCZMA) vide letter No 536/CRZ/CON/2023-1097 dated 12.03.2024 shall be complied with.</p> <p>v. An adequate buffer of 100m shall be provided all around the creek from the boundary of CRZ area 100 mtrs thick plantation shall be developed no creek shall be disturbed during construction and operational time.</p> <p>vi. As proposed by PP no construction activity shall be undertaken near the coastal areas up to 500m from the coastline and adequate green belt of 15 m shall be created along project boundary and at least 50-meter wide multilayered green belt shall be created around the water bodies and settlement</p> <p>vii. The internal road Proposed inside the industrial area some portion of road is falling under the CRZ IA area, the Committee advised the PP that the area covered under CRZ IA is very small therefore the road in CRZ IA area shall be avoided</p> <p>viii. As proposed by the PP at least 18.4 % of the total project area shall be developed as green belt which shall not include open spaces</p> <p>ix. The project proponent shall ensure that no creeks or rivers, natural drain/nallah or any other water body are blocked/diverted due to any activities at the project site and free flow of water is maintained.</p> <p>x. All the topsoil excavated during development/ construction activities should be stored for use in horticulture/landscape development within the project site.</p> <p>xi. Disposal of muck during development/ 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.</p> <p>xii. 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.</p> <p>xiii. Any hazardous waste generated during development/ construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the Rajasthan Pollution Control Board.</p> <p>xiv. The proponent has to comply with the Ministry's OM no. J-11011/321/2016-IA.II(I), dated 27.04.2018 which made it mandatory for certain type of industries to conduct public hearing irrespective of their location within Industrial Area or outside the industrial area.</p> <p>xv. The proposed individual units need to take Environmental Clearance separately as per the applicability of the schedule of EIA Notification, 2006.</p> <p>xvi. The proposed develop marine outfall system for discharging treated wastewater of 7.28 MLD from CETPs only will be after meeting the marine discharge standards.</p> <p>xvii. Marine outfall pipeline shall be constructed using Horizontal Directional Drilling (HDD) technology only, No creek shall not disturbed. As proposed APIIC shall develop CETPs (two Streams) for non-pharma and pharma, chemical and petrochemical units separately on modular basis based on industrial wastewater generation.</p>

S. No	EC Conditions
	<p>xviii. Treated wastewater quality shall be ensured as per standards before using for greenbelt or any other application.</p> <p>xix. The municipal waste shall be disposed to local municipality and industrial waste to nearby Treatment, Storage and Disposal Facility (TSDF) until own TSDF is operational and also to approved/authorized vendors of Andhra Pradesh Pollution Control Board (APPCB). However, waste minimization techniques shall be adopted in order to minimize the generation of wastes.</p> <p>xx. Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water. Treated affluent emanating from STP shall be recycled/reused to the maximum extent possible. Treatment of 100% grey water by decentralized treatment should be done.</p> <p>xxi. The PP shall construct a garland drain, with catch pits of appropriate capacity at appropriate distance, all around the industrial estate and also around the water bodies falling within project boundary to prevent runoff of any contaminants/ waste into the nearby water bodies. Effluent shall be properly treated and treated wastewater shall conform to CPCB standards.</p> <p>xxii. Processed effluents/any wastewater shall not be allowed to mix with storm water, storm water drain shall be provided on tank farm, and solvent transfer through pumps.</p> <p>xxiii. The cutting of trees shall kept at bare minimum and for this the proponent shall obtain permission from the competent authorities. The industrial estate shall plan such that it will avoid cutting old and large and heritage trees if any. And PP shall put more efforts to translocate to the nearest place to avoid the cutting.</p> <p>xxiv. A small hillock is located inside the proposed industrial estate which shall not be disturbed shall be maintained with the thick plantation.</p> <p>xxv. In the proposed Industrial Park, an area of 447.6 acres is allotted as green area, which covers around 18.4 % of total area Adequate green peripheral buffers (15m) are provided all along the project boundary. However, The greenbelt over an area of not less than 33% of the total land of the proposed Industrial Area shall be developed which shall include the green belt in plots of individual industries as well as green belt in common areas and proposed Industrial Park.</p> <p>xxvi. As per the guidelines 500m buffer from settlements for red category is to be kept.</p> <p>xxvii. The project proponent shall install system carryout to Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the port area at least at four locations (one within and three outside the port area at an angle of 120°each), covering upwind and downwind directions.</p> <p>xxviii. 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 fugitive emission standards.</p> <p>xxix. Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high level of particulate matter such as around loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard</p> <p>xxx. A site specific biodiversity conservation plan including mitigation measures to be developed from competent nationally/internationally recognized institute with appropriate financial allocation for its implementation in consultation with the state forest department and shall get approval/recommendations of the concern state forest department and all commitments made in the biodiversity Management & Conservation Plan shall be implemented in letter and spirit. The status of implementation of Wildlife Management & Conservation Plan shall be submitted to the Regional Office of the Ministry along with 6 monthly compliance reports.</p> <p>xxxi. A continuous monitoring programme covering all the seasons on various aspects of the coastal and marine environs need to be undertaken by a competent organization available in the State or by entrusting to the National Institutes/renowned Universities/accredited Consultant with rich experiences in marine science aspects. Monitoring should include sea weeds, sea grasses, mudflats,</p>

S. No	EC Conditions
	<p>sand dunes, fisheries, mangroves and other marine biodiversity components as part of the management plan.</p> <p>xxxii. Sufficient number of Piezometer wells shall be installed in and around the project site to monitor the ground water quality in consultation with the State Pollution Control Board / CPCB. Trend analysis of ground water quality shall be carried out each season and information shall be submitted to the SPCB and the Regional Office of MoEF&CC</p> <p>xxxiii. 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. Frequent monitoring of groundwater and surface water will be done to ensure that the quality of water is being maintained within the norms the report of the same shall be submitted to the concern IRO, MoEF&CC along with the six monthly EC&CRZ compliance road.</p> <p>xxxiv. Ground water abstraction shall be as prescribed by the CGWA. A clearance/permission of the CGWA shall be obtained in this regard.</p> <p>xxxv. Rain water harvesting for roof run-off and surface run-off, should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease.</p> <p>xxxvi. All the recommendation of the EMP shall be complied with in letter and spirit. All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to RO, MoEF&CC along with half yearly compliance report. As per the Ministry's Office Memorandum F. No. 22-65/2017-IA.III dated 30th 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.</p> <p>xxxvii. 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.</p>

Standard EC Conditions for (Industrial estates/ parks/ complexes/ areas, export processing Zones (EPZs), Special Economic Zones)

1. Statutory Compliance

S. No	EC Conditions
1.1	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).
1.2	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.
1.3	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

S. No	EC Conditions
1.4	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.
1.5	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.

2. Air Quality Monitoring And Preservation

S. No	EC Conditions
2.1	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the project area at least at four locations (one within and three outside the project area at an angle of 120°each), covering upwind and downwind directions.
2.2	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.
2.3	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.
2.4	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.
2.5	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.

3. Water Quality Monitoring And Preservation

S. No	EC Conditions
3.1	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.
3.2	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.

S. No	EC Conditions
3.3	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.
3.4	No diversion of the natural course of the river shall be made without prior permission from the Ministry of Water resources.

4. Noise Monitoring And Prevention

S. No	EC Conditions
4.1	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.
4.2	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.
4.3	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.
4.4	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.

5. Energy Conservation Measures

S. No	EC Conditions
5.1	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;
5.2	Provide LED lights in their offices and project areas.

6. Waste Management

S. No	EC Conditions
6.1	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.
6.2	The solid wastes shall be managed and disposed as per the norms of the Solid Waste Management Rules, 2016.
6.3	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.

S. No	EC Conditions
6.4	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.
6.5	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.

7. Green Belt

S. No	EC Conditions
7.1	An overall green area of at-least 33% of the Industrial Area should be developed with native species. The green area shall be 40% in case of critically polluted area. 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.
7.2	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.
7.3	The individual industrial unit, at the time of obtaining EC, shall bring a letter from the Industrial Area, specifying the area allocated to them to be developed as green cover, as a part of obligation from the Industrial Area.
7.4	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.
7.5	The parameters like selection of plant species, procedure for plantation, density of tree plantation etc shall be as per the CPCB guidelines.

8. Public Hearing And Human Health Issues

S. No	EC Conditions
8.1	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.
8.2	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.
8.3	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.

S. No	EC Conditions
8.4	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.
8.5	Occupational health surveillance of the workers shall be done on a regular basis.

9. Environment Responsibility

S. No	EC Conditions
9.1	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.
9.2	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.
9.3	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.
9.4	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

10. Miscellaneous

S. No	EC Conditions
10.1	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.
10.2	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.
10.3	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.

S. No	EC Conditions
10.4	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.
10.5	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.
10.6	The criteria pollutant levels namely; PM2.5, PM10, SO2, NOx (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.
10.7	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.
10.8	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
10.9	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.
10.10	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).
10.11	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.
10.12	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
10.13	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
10.14	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.
10.15	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.
10.16	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

11. Specific Conditions

S. No	EC Conditions
11.1	The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.

