


Your (**Half Yearly Compliance Report**) has been **Submitted** with following details

Proposal No	IA/AP/MIS/566/2009
Compliance ID	127784573
Compliance Number(For Tracking)	EC/M/COMPLIANCE/127784573/2025
Reporting Year	2025
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	30-05-2025
RO/SRO Name	V Geroge Jenner
RO/SRO Email	tr025@ifs.nic.in
State	ANDHRA PRADESH
RO/SRO Office Address	Integrated Regional Offices, Vijayawada

Note:- SMS and E-Mail has been sent to V Geroge Jenner, ANDHRA PRADESH with Notification to Project Proponent.

**Half Yearly Compliance Report
2025
01 Jun(01 Oct - 31 Mar)**

Acknowledgement

Proposal Name	Expansion of Krishnapatnam Port (Phase III)		
Name of Entity / Corporate Office	Adani Krishnapatnam Port		
Village(s)	N/A		
District	SPSR  NELLORE		
Proposal No.	IA/AP/MIS/566/2009	Category	INFRA-1
Plot / Survey / Khasra No.	N/A	Sub-District	N/A
State	ANDHRA PRADESH	Entity's PAN	*****8657J
MoEF File No.	10-18/2016-IA.III	Entity name as per PAN	ADANI KRISHNAPATNAM PORT LIMITED

Compliance Reporting Details

Reporting Year	2025
Remarks (if any)	We are submitting the Self certified Half yearly compliance EC and CRZ compliance for the period from October 2024 to March 2025 along with the CTE CTO Compliance and monitoring reports
Reporting Period	01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office	Adani Krishnapatnam Port	
	Project Area as per EC Granted	Actual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	2334	2334
Total	2334	2334

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Coal	Million Tons per Annum (MTPA)	31/08/2027	139	39.829	46
2	Liquid Cargo	Million Tons per Annum (MTPA)	31/08/2027	51.7	1.500	10
3	General Cargo	Million Tons per Annum (MTPA)	31/08/2027	19.5	8.323	14
4	Iron Ore	Million Tons per Annum (MTPA)	31/08/2027	8	5.005	8
5	Container Cargo	Others:MTEU's Per Annum	31/08/2027	3.1	0.020	2

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	The Environmental and CRZ Clearance to the project is primarily under provisions of EIA Notification, 2006 and CRZ Notification, 2011. It does not amount 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.
PPs Submission: Being Complied Noted the condition and duly complied with during the implementation of the Project.		Date: 30/05/2025
2	Statutory compliance	The project proponent shall abide by all the commitments and recommendations made in the Form-II, EIA and EMP report, submissions made during Public Hearing and also that have been made during their presentation to EAC.
PPs Submission: Being Complied Being complied		Date: 30/05/2025
3	Statutory compliance	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 Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.
PPs Submission: Being Complied Being complied		Date: 30/05/2025
4	Statutory compliance	Development of green belt by native species with consultation with state forest department shall be ensured.
PPs Submission: Complied Complied. AKPL is developing a lush Green Belt within the Project with Native Species in a total		Date:

<p>area of 213.60 Ha. (As on March 2025 Total Green Belt area in Phase 1 2 3). The Project Layout with the planned Green Belt is attached as Annexure C. As on March 2025, AKPL has successfully developed 213.60 Ha of Green belt along port boundary, around coal yards, avenue median plantations. The Project is maintaining greenbelt of 100 m width along the periphery. The Project has developed a green belt in an area of 3.5 Ha near liquid jetty area in phase III along the shoreline boundary. The Project is maintaining greenbelt of 20-meter width around the coal stack yards. The Expenditure for maintenance of the Green Belt during the financial Year 2024-2025 is 82.41 Lakhs. 150 No. of local manpower are being engaged for the Development and Maintenance of the Green Belt in the Project.</p>		30/05/2025
5	Statutory compliance	All the recommendations and conditions specified by the Andhra Pradesh Coastal Zone Management Authority (APCZMA) vide letter 202/CRZ/IND/201930 dated 21.05.2020 shall be complied with
<p>PPs Submission: Being Complied Noted the condition being complied. The Compliance of the recommendations and conditions specified by the Andhra Pradesh Coastal Zone Management Authority (APCZMA) vide letter 202/CRZ/IND/201930 dated 21.05.2020 are attached as Annexure 23.</p>		Date: 30/05/2025
6	Statutory compliance	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
<p>PPs Submission: Being Complied Being complied.</p>		Date: 30/05/2025
7	Statutory compliance	Continuous online monitoring of air and water covering the total area shall be carried out and the compliance report of the same shall be submitted along with the 6 monthly compliance reports to the regional office of MoEF CC.
<p>PPs Submission: Complied Complied. AKPL was earlier operating Three (3) Nos. of Continuous Ambient Air Quality Monitoring stations and linked to APPCB website. AKPL has now added two additional Continuous Ambient Air Quality Monitoring stations since September 2024, and these are also linked to APPCB website. In addition, AKPL appointed a third-party agency M s S V Enviro Laboratories, an NABL Accredited Laboratory to conduct Environmental Monitoring i.e., Terrestrial Marine parameters. The monitoring reports are being submitted to APPCB on monthly basis and MoEF CC on half-yearly basis. Copies of the latest Submission letters are attached as Annexure 24.</p>		Date: 30/05/2025
8	Statutory compliance	The proposed expansion entails 60 million cum of dredging in soft soil. As proposed, the PP shall utilize 26 million cu m of dredged sand for reclamation of low lying areas of port, stock pile 2 million cu m on the coast north of north breakwater for long term coastal protection as recommended by NIOT and disposal of balance 32 million cu m of dredged spoil in the identified dredge disposal area of 56 Km2 beyond (-) 20 m contour. The impact of dredging on the marine environment should be monitored and necessary measures shall be taken on priority basis if any adverse impact is observed. NIOT will oversee the work as scientific body and continue to monitor its impact/benefits for at least 5 years post project completion. Necessary financial assistance to be provided by project proponent to NIOT. The report of the same to be submitted to regional office of MoEFCC by project proponent.
<p>PPs Submission: Complied AKPL has obtained Consent to Establishment (CTE) for the Expansion of the Krishnapatnam Port Project (Phase III) from APPCB vide Order No. 633/ APPCB/ CFE/RO NLR/HO/2010 dated</p>		Date: 30/05/2025

25.02.2021. Copy of the CTE Order is attached as Annexure 16 The impact of dredging activities have been monitored by NIOT for 5 post completion of the Phase II of the project. AKPL appointed NIOT for shoreline stability study, the study was carried out during the period 2021 to 2024 and report as submitted to APPCB, RO Nellore vide letter. no. AKPL/EC/ENV/007/2025 26 dated 09.04.2025. (Copy attached as Annexure 7		
9	Statutory compliance	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 with the help of reputed organization or individuals of national repute having knowledge in the said subject. Necessary financial assistance to be provided by project proponent.
PPs Submission: Complied Being complied. AKPL carried out study on Comprehensive Biodiversity Assessment, Impact Assessment and Management Plan through M. s. Suganthi Devadason Marine Research Institute (SDMRI), Thoothukudi during the period 2022 to 2023 and submitted the report APPCB and AP state biodiversity board with vide letter No: AKPL/EC/ENV/126/2024 25 dated 09.01.2025. (Copy attached as Annexure 19)		Date: 30/05/2025
10	Statutory compliance	The actions shall be in accordance with proposed landscape planning concepts to minimize major landscape changes. The change in land use pattern shall be limited to the proposed port limits and be carried out in such a way as to ensure proper drainage by providing surface drainage systems including storm water network.
PPs Submission: Being Complied Being complied		Date: 30/05/2025
11	Statutory compliance	Suitable preventive measures be taken to trap spillage of fuel / engine oil and lubricants from the construction site. Measures should be taken to contain, control and recover the accidental spills of fuel during cargo handling.
PPs Submission: Being Complied Being complied Port has existing Tier-I oil spill response equipment to combat any oil spill and coordinate with Indian Coast Guard to contain, control, and recover the accidental spills of fuel during cargo handling.		Date: 30/05/2025
12	Statutory compliance	The company shall draw up and implement Corporate Social Responsibility Plan as per the Company s Act of 2013.
PPs Submission: Being Complied Being complied The CSR Plan is drawn up as per the Company s Act 2013 (Copy attached as Annexure 4)		Date: 30/05/2025
13	Statutory compliance	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 the RO, MoEF CC along with half yearly compliance report.
PPs Submission: Complied Complied Environmental Monitoring Plan is prepared in matrix format for the Expansion of the Krishnapatnam Port Phase-III and the same is being implemented at site. (Copy attached as Annexure 20)		Date: 30/05/2025
14	Statutory compliance	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. All other activities including pollution control, environmental protection and conservation, R and R, wildlife and forest conservation/protection measures including the NPV, Compensatory Afforestation etc., either proposed by the project proponent based on the social impact assessment and R and R action plan carried out during the preparation of EIA report or prescribed by EAC, shall also be implemented and become part of EMP.
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<p>PPs Submission: Being Complied Being complied The Public Consultation for Expansion of Krishnapatnam Port Phase III was exempted as the expansion was proposed to be developed within the existing land area of 6800 Ac. All the commitments made in the public consultation for Phase II during 2009 were complied with. All the activities proposed in the EMP for Phase II along with the Phase III EMP including Pollution control measures, Environmental protection and conservation, R R, Wildlife and forest conservation/ protection measures including the NPV, Compensatory Afforestation, etc., are being implemented. PH Minutes attached as Annexure 7</p>	<p>Date: 30/05/2025</p>
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General Conditions

Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	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.

<p>PPs Submission: Being Complied Being Complied</p>	<p>Date: 30/05/2025</p>
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2	Statutory compliance	Construction activity shall be carried out strictly according to the provisions of CRZ Notification, 2011 and the State Coastal Zone Management Plan as drawn up by the State Government. No construction works other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area. 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.
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<p>PPs Submission: Being Complied Being complied</p>	<p>Date: 30/05/2025</p>
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3	Statutory compliance	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.
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<p>PPs Submission: Complied Complied. AKPL has obtained a license from Chief Controller of Explosives to store petroleum class A B as a retail outlet within the premises of the port. Copy of approvals are attached as Annexure13.</p>	<p>Date: 30/05/2025</p>
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4	AIR QUALITY MONITORING AND PRESERVATION	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 covering
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		upwind and downwind directions.
<p>PPs Submission: Being Complied Being complied. AKPL was earlier operating Three (3) Nos. of Continuous Ambient Air Quality Monitoring stations at the following locations to monitor the parameters viz., PM10, PM2.5, SO2, NO, NO2, CO and linked to APPCB website. a. CVR Amenities Complex b. Thamminapatnam Village c. Krishnapatnam Village AKPL has now added two additional Continuous Ambient Air Quality Monitoring stations at the following locations since September 2024 to monitor the parameters viz., PM10, PM2.5, and these are also linked to APPCB website. a) CAAQMS 4 North side of the station b) CAAQMS 5 South side of the station Environmental Monitoring has been rendered by NABL accredited laboratory along with AAQ monitoring at 7 locations covering upwind and downwind directions.</p>		Date: 30/05/2025
5	AIR QUALITY MONITORING AND PRESERVATION	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.
<p>PPs Submission: Being Complied Being complied. Port has adopted implementing the following measures for the control of fugitive emissions during handling of bulk non bulk cargo and vehicular movement: i. Established mechanical conveyor system for handling coal Iron ore. ii. Provided closed hoods for the conveyor system. iii. Stacker cum re-claimers is being used for loading and unloading the coal. iv. The railway wagons are being loaded mechanically. v. Installed fully mechanized coal handling systems with gantry grab type ship loaders unloaders. vi. Provided hooded conveyor belt for cargo transferring directly from ship to the designated stack yard by means of closed hoppers and transfer towers. vii. Established closed warehouses for storage of weather sensitive cargoes. viii. The loading and discharge points of the conveyor carrying material are covered with exhaust hoods to prevent the formation of dust clouds. ix. All the conveyor galleries are covered to ensure zero dust emission during cargo transfer. x. Provided water sprinkling system at transfer towers to arrest the dust spreading into the atmosphere. xi. Provided semi mechanized facilities for truck tarpaulin covering stations to ensuring all the outgoing cargos by trucks are covered with tarpaulin. xii. Ensuring all the outgoing Railway Rakes are covered with Tarpaulin. xiii. Mist Canon systems provided for watering avenue plantations and road wetting on haul roads xiv. Operating Mechanical dust suppression system comprises of 248 canons. xv. Deploying DSS Tankers of Cannon mounted for sprinkling water on haul roads and yards to arrest the dust causing by the vehicular movement xvi. The Cargo stocks heaps are covered with tarpaulin. xvii. Provided 8 No. tractor mounted hydraulic broom sweeping machines for cleaning the roads and jetty areas, xviii. 3 No of Heavy Duty Sweeping Machines are being deployed at operational areas and all internal roads. xix. Erected maintaining wind breaking wall of height 14 mtrs to prevent any dust nuisance towards habitation supported with high density greenbelt. xx. Greenbelt in an extent of 213.60 Ha Developed maintaining green belt along the port covering, yards, roads and all operational areas. Photographs are attached in EMP as Annexure 5</p>		Date: 30/05/2025
6	AIR QUALITY MONITORING AND PRESERVATION	Shrouding shall be carried out in the work site enclosing the dock/proposed facility area. This will act as dust curtain as well achieving zero dust discharge from the site. These curtain or shroud will be immensely effective in restricting disturbance from wind in affecting the dry dock operations, preventing waste dispersion, improving working conditions through provision of shade for the workers.
<p>PPs Submission: Being Complied Being complied. Erected maintaining wind breaking wall of height 14 mtrs to prevent any dust nuisance towards habitation supported with high density greenbelt. Covered the operational area with rows of plantation which are acting as wind barricades. Ensuring water sprinkling on haul roads. Photographs attached in EMP as Annexure 5 .</p>		Date: 30/05/2025
7	AIR QUALITY MONITORING AND PRESERVATION	Dust collectors shall be deployed in all areas where blasting (surface cleaning) and painting operations are to be carried out, supplemented by stacks for effective dispersion.

<p>PPs Submission: Being Complied No blasting activities involved in the Port operations.</p>		<p>Date: 30/05/2025</p>
8	<p>AIR QUALITY MONITORING AND PRESERVATION</p>	<p>The Vessels shall comply the emission norms prescribed from time to time.</p>
<p>PPs Submission: Being Complied Being complied. Please find MARPOL circular in Annexure 26.</p>		<p>Date: 30/05/2025</p>
9	<p>AIR QUALITY MONITORING AND PRESERVATION</p>	<p>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</p>
<p>PPs Submission: Being Complied Being Complied. i. The Port is being supplied with power grid Non-conventional source of energy through Power Grid for uninterrupted power supply. (BLYTH Wind Park Pvt. Ltd., Ananthapur Dist., Andhra Pradesh) ii. The DG Sets are being operated as back up for emergency lighting safety during power breakdowns. iii. Retrofitting certification was carried out for the DG Sets during 2022 (Copy attached as Annexure 27) iv. The emissions from the DG Sets are being monitored ones in 6 months through a 3rd Party NABL Accredited Laboratory and the analysis reports are being submitted the Authorities.</p>		<p>Date: 30/05/2025</p>
10	<p>AIR QUALITY MONITORING AND PRESERVATION</p>	<p>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.</p>
<p>PPs Submission: Complied Complied AKPL appointed M s. FP Project Management to study and prepare a Traffic Management and Decongestion Plan. Report submitted to the R and B Dept and NUDA vide letter no. AKPL/EC/EHS/032 dated 03.07.2024. Copy of the Acknowledgement is attached as Annexure 21.</p>		<p>Date: 30/05/2025</p>
11	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>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.</p>
<p>PPs Submission: Being Complied Being complied No creeks or rivers are blocked in the port premises and the Project is ensuring free flow of water.</p>		<p>Date: 30/05/2025</p>
12	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality. Silt curtains shall be used to contain the spreading of suspended sediment during dredging within the dredging area.</p>

PPs Submission: Being Complied Being complied		Date: 30/05/2025
13	WATER QUALITY MONITORING AND PRESERVATION	No ships docking at the proposed project site will discharge its on-board waste water untreated in to the estuary / channel. All such wastewater load will be diverted to the proposed Effluent Treatment Plant of the project site.
PPs Submission: Being Complied Being complied The ships are not allowed to discharge on board wastewater into the Sea.		Date: 30/05/2025
14	WATER QUALITY MONITORING AND PRESERVATION	Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handle.
PPs Submission: Being Complied Being complied. Port has existing Tier I oil spill response equipment to combat any oil spill supported by Indian Coast Guard to contain, control and recover the oil spill. The Last Oil Spill Preparedness Response (OPR) drill was conducted at the port on 19.02.2025. OPR Mock drill being conducted once in every 6 months. Copy attached as Annexure 11.		Date: 30/05/2025
15	WATER QUALITY MONITORING AND PRESERVATION	The project proponents will draw up and implement a plan for the management of temperature differences between intake waters and discharge waters.
PPs Submission: Being Complied Not Applicable There is no intake and discharge of water involved in the Port operations.		Date: 30/05/2025
16	WATER QUALITY MONITORING AND PRESERVATION	Spillage of fuel / engine oil and lubricants from the construction site are a source of organic pollution which impacts marine life. This shall be prevented by suitable precautions and also by providing necessary mechanisms to trap the spillage.
PPs Submission: Complied Complied Oil Spills are being managed as per the approved Oil Spill Contingency Plan. AKPL has provided Oil Boom, Skimmer and chemicals to attend any accidental oil spills. The Operating Staff are trained to handle with Tier I Oil spills. Training and periodical mock drills are being organized for the work force at workplace. As per Disaster Management Plan, Indian Coast Guard will be alerted to coordinate in case of any oil spills Details were furnished to the MoEFCC Regional Office, Bangalore, vide our letter no. KP/MoEF/PH-II/20 dated 02.02.2010. The last OPR drill was conducted at the port on 19.02.2025. Copy attached as Annexure-11.		Date: 30/05/2025
17	WATER QUALITY MONITORING AND PRESERVATION	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.
PPs Submission: Complied Complied with		Date: 30/05/2025
18	WATER QUALITY MONITORING AND PRESERVATION	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.
PPs Submission: Complied AKPL has been operating 2 no. of Sewage Treatment Plants of 1 X 500 KLD STP at CVR Amenities Complex 1 X 40 KLD STP Admin. Building. Treated wastewater from STP is being		Date: 30/05/2025

utilized for the green belt within port premises. Septic tank and soak pit systems are being followed at offices and isolated buildings which are far from STPs. The treated water details for the last six months are as below: S.No Month Treated Water (KL) 1 OCT'24 5533 2 NOV'24 4971 3 DEC'24 4632 4 JAN'25 4271 5 FEB'25 4077 6 MAR'25 4764		
19	WATER QUALITY MONITORING AND PRESERVATION	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.
PPs Submission: Complied AKPL is not discharging any treated effluent/ untreated effluent into the public sewer. The treated waste water is being utilized for greenbelt development.		Date: 30/05/2025
20	WATER QUALITY MONITORING AND PRESERVATION	No diversion of the natural course of the river shall be made without prior permission from the Ministry of Water resources.
PPs Submission: Being Complied Being complied		Date: 30/05/2025
21	WATER QUALITY MONITORING AND PRESERVATION	All the erosion control measures shall be taken at water front facilities. Earth protection work shall be carried out to avoid erosion of soil from the shoreline/boundary line from the land area into the marine water body.
PPs Submission: Being Complied Being complied		Date: 30/05/2025
22	Noise Monitoring & Prevention	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.
PPs Submission: Being Complied Being complied AKPL appointed M/s S V Enviro Labs a third party NABL Accredited Laboratory to monitor Noise quality at the following locations: 1. Zero Point 2. Thamminapatnam 3. CVR Building 4. Gopalapuram 5. Chalivendram 6. Krishnapatnam 7. Krishnapatnam Village near Light House AKPL is submitting the monitoring reports to APPCB on monthly basis and to MoEFCC on Half yearly basis.		Date: 30/05/2025
23	Noise Monitoring & Prevention	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 equipment.
PPs Submission: Being Complied Being complied		Date: 30/05/2025
24	Noise Monitoring & Prevention	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.
PPs Submission: Being Complied Being complied		Date: 30/05/2025
25	Noise Monitoring & Prevention	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.

PPs Submission: Being Complied Being complied		Date: 30/05/2025
26	ENERGY PRESERVATION MEASURES	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
PPs Submission: Being Complied Being complied The Port has a tie up with M/s BLYTH Wind Park Pvt. Ltd., Ananthapur Dist., Andhra Pradesh for supply of non-conventional energy through Power Grid for uninterrupted power supply. The Port has installed Solar Panels on the poles erected for installing CCTV cameras within the Port premises. Copy attached as Annexure 5.		Date: 30/05/2025
27	ENERGY PRESERVATION MEASURES	Provide LED lights in their offices and port areas.
PPs Submission: Being Complied Being complied All the office buildings and other operation buildings within the Port Premises are provided with LED lights. Copy attached as Annexure 5.		Date: 30/05/2025
28	WASTE MANAGEMENT	Dredged material shall be disposed safely in the designated areas.
PPs Submission: Being Complied Being complied		Date: 30/05/2025
29	WASTE MANAGEMENT	Shoreline should not be disturbed due to dumping. Periodical study on shore line changes shall be conducted and mitigation carried out, if necessary. The details shall be submitted along with the six monthly monitoring reports.
PPs Submission: Being Complied Being complied AKPL appointed NIOT for shore line stability study, the study was carried out during the period 2021 to 2024 and report as submitted to APPCB, RO Nellore vide letter. no. AKPL/EC/ENV/007/2025-26 dated 09.04.2025. (Copy attached as Annexure 7)		Date: 30/05/2025
30	WASTE MANAGEMENT	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.
PPs Submission: Being Complied Being complied Two STP s of 500 KLD and 40 KLD are provided within the port Premises for treatment of domestic wastewater generated in Port. Solid Waste being segregated and shredded by using shredder and baler machine and being disposed to APPCB authorized vendor.		Date: 30/05/2025
31	WASTE MANAGEMENT	The solid wastes shall be managed and disposed as per the norms of the Solid Waste Management Rules, 2016.
PPs Submission: Being Complied Being complied		Date: 30/05/2025
32	WASTE MANAGEMENT	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.

PPs Submission: Being Complied Being complied		Date: 30/05/2025
33	WASTE MANAGEMENT	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.
PPs Submission: Being Complied Being complied. Solid waste being disposed to APPCB Authorized recyclers.		Date: 30/05/2025
34	WASTE MANAGEMENT	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.
PPs Submission: Being Complied Being complied The CFL s and TFL s are collected and stored properly in the Covered Shed. The same are disposed to Approved Agency.		Date: 30/05/2025
35	WASTE MANAGEMENT	Oil spill contingency plan shall be prepared and part of DMP to tackle emergencies. The equipment and recovery of oil from a spill would be assessed. Guidelines given in MARPOL and Shipping Acts for oil spill management would be followed. Mechanism for integration of terminals oil contingency plan with the overall area contingency plan under the co- ordination of Coast should be covered.
PPs Submission: Being Complied Being complied Port has been maintaining Oil Spill Contingency Plan. Port has Tier I Oil Spill response equipment for recovery of oil spill in coordination with Indian Coast Guard, Krishnapatnam and follows the guidelines given in MARPOL and Shipping Acts. The last OPR drill was conducted at the port on 19.02.2025. Copy attached as Annexure-11.		Date: 30/05/2025
36	GREENBELT	Green belt shall be developed in area as provided in project details with a native tree species in accordance with CPCB guidelines.
PPs Submission: Complied Complied. AKPL is developing a lush Green Belt within the Project with Native Species in a total area of 213.60 Ha. (Total Green Belt area in Phase 1, 2 3). The Project Layout with the planned Green Belt is attached as Annexure C. As on March 2025, AKPL has successfully developed 213.60 Ha of Green belt along port boundary, around coal yards, avenue median plantations. The total plantation for the FY 2024-25 from Oct24 to Mar25 is 93107 saplings. The Expenditure for maintenance of the Green Belt during the financial Year 2024-2025 is 82.41 Lakhs. 150 No. of Local Manpower being engaged for the Development and Maintenance of the Green Belt in the Project.		Date: 30/05/2025
37	GREENBELT	Top soil shall be separately stored and used in the development of green belt.
PPs Submission: Being Complied Being complied. AKPL is using coco peat, red soil and vermi compost for enriching the top soil.		Date: 30/05/2025
38	Marine/Coastal	The dredging schedule shall be so planned that the turbidity developed is dispersed soon enough to prevent any stress on the fish population.
PPs Submission: Being Complied		Date:

Being complied		30/05/2025
39	Marine/Coastal	While carrying out dredging, an independent monitoring shall be carried out through a Government Agency/Institute to assess the impact and necessary measures shall be taken on priority basis if any adverse impact is observed.
PPs Submission: Being Complied Being complied AKPL has appointed Government agency of Annamalai university team to assess the impact and necessary measures. Pre, during post dredging monitoring samples collected, Data compilation is under progress. The final report is yet to be received.		Date: 30/05/2025
40	Marine/Coastal	A detailed marine biodiversity management plan shall be prepared through the NIO or any other institute of repute on marine, brackish water authority. The report shall be based on a study of the impact of the project activities on the intertidal biotopes, corals and coral communities, molluscs, sea grasses, sea weeds, sub- tidal habitats, fishes, other marine and aquatic micro, macro and mega flora and fauna including benthos, plankton, turtles, birds etc. as also the productivity. The data collection and impact assessment shall be as per standards survey methods and include underwater photography.
PPs Submission: Complied Being complied Comprehensive Marine Biodiversity Impact Assessment and management Plan was prepared by SDMRI and the report was submitted to APPCB, Andhra Pradesh State biodiversity Board and APCZMA vide AKPL/EC/ENV/126/2024-25 dated 09.01.2025, AKPL/EC/ENV/127/2024-25 dated 09.01.2025 respectively. Copy attached as Annexure -19		Date: 30/05/2025
41	Marine/Coastal	Marine ecology shall be monitored regularly also in terms of sea weeds, sea grasses, mudflats, sand dunes, fisheries, echinoderms, shrimps, turtles, corals, coastal vegetation, mangroves and other marine biodiversity components including all micro, macro and mega floral and faunal components of marine biodiversity.
PPs Submission: Being Complied Being complied AKPL Appointed a third party NABL Accredited Laboratory for Monitoring the Terrestrial Marine parameters viz., Marine water quality, Marine sediment quality, Surface Water Quality and ground water quality at regular intervals Copies of the Analysis reports for the Period from Oct 24 to Mar25 are attached as Annexure 30.		Date: 30/05/2025
42	Marine/Coastal	The project proponent shall ensure that water traffic does not impact the aquatic wildlife sanctuaries that fall along the stretch of the river.
PPs Submission: Being Complied Being complied. There are no aquatic wildlife sanctuaries in the vicinity of the Port. AKPL has been ensuring that the water traffic does not impact the marine ecosystem for port operations.		Date: 30/05/2025
43	PUBLIC HEARING	The work space shall be maintained as per international standards for occupational health and safety with provision of fresh air respirators, blowers, and fans to prevent any accumulation and inhalation of undesirable levels of pollutants including VOCs.
PPs Submission: Being Complied Being complied. AKPL is providing and maintaining the Work Space to match the standards of Occupational Health and Safety.		Date: 30/05/2025
44	PUBLIC HEARING	Workers shall be strictly enforced to wear personal protective equipment's 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.
PPs Submission: Being Complied Being complied. AKPL strictly enforcing all the workers, employees, stakeholders to wear PPEs at operational areas.		Date: 30/05/2025
45	PUBLIC HEARING	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.
PPs Submission: Being Complied Being complied. AKPL is providing work related Safety Training to all its workers and employees. All the employees, workers contractors are given daily toolbox talks, monthly review meetings with employees engaged in various activities of the Port. Port implemented and monitoring all standard safety and occupational hazard measures to prevent untoward incidents.		Date: 30/05/2025
46	PUBLIC HEARING	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
PPs Submission: Being Complied Being complied. DMP covering emergency evacuation mechanisms etc., to deal with natural disasters was prepared and submitted to the Ministry vide letter No. KP/MOEF/275 dated 11.07.2008 same as regularly updated. Latest DMP update copy submitted to District Magistrate office on 30.08.2024. The updated copy of the DMP was submitted to office of the District Magistrate, SPSR Nellore District office vide letter AKPL/CORPORATE AFFAIRS/DMP/071/2024-25 - dated 30.08.2024. Copy attached as Annexure 3		Date: 30/05/2025
47	PUBLIC HEARING	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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
PPs Submission: Being Complied Being complied.		Date: 30/05/2025
48	PUBLIC HEARING	Occupational health surveillance of the workers shall be done on a regular basis.
PPs Submission: Being Complied Being complied.		Date: 30/05/2025
49	Corporate Environmental Responsibility	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.

<p>PPs Submission: Being Complied Being complied. AKPL has a laid down Environment Policy duly approved by the board of directors. Copy attached as Annexure 22.</p>		<p>Date: 30/05/2025</p>
50	Corporate Environmental Responsibility	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.
<p>PPs Submission: Being Complied Being complied. AKPL has formed Environment Cell Headed by HOD supporting staff at port level. Copy attached as Annexure 28. AKPL has also formed Environment Cell Headed by Vice president at Head Quarter level. Copy attached as Annexure 28A</p>		<p>Date: 30/05/2025</p>
51	Corporate Environmental Responsibility	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.
<p>PPs Submission: Being Complied Being complied The Funds Expenditure earmarked for environment protection measures are being reported in Form V Environmental Statement and submitting the same to APPCB MoEF CC. Latest submission is on 28.09.2024 for the period 2023 2024. The Expenditure incurred during the period April, 2023 to March,2024 are attached as Annexure 6.</p>		<p>Date: 30/05/2025</p>
52	Corporate Environmental Responsibility	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
<p>PPs Submission: Being Complied Being complied. AKPL has submitted the 6 Monthly Self Certified Compliance report for the Period April, 2024 to September, 2024 to MoEFCC on 30.11.2024. AKPL has now submitting the 6 Monthly Third party NABET Accredited Consultants report for the Period October, 2024 to March, 2025 to MoEFCC.</p>		<p>Date: 30/05/2025</p>
53	MISCELLANEOUS	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.
<p>PPs Submission: Complied Complied. Advertisement was published in District Newspapers namely Vartha in local language The New Indian Express in English language dated 21.01.2021. Copy attached as Annexure18.</p>		<p>Date: 30/05/2025</p>
54	MISCELLANEOUS	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 tum has to display the same for 30 days from the date of receipt.
<p>PPs Submission: Complied Complied. A copy of the Environmental clearance is submitted to the District Collector vide our letter dated 03.02.2021 and local Panchayats vide letter dated 01.02.2021. Copy attached as</p>		<p>Date: 30/05/2025</p>

Annexure 17		
55	MISCELLANEOUS	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.
PPs Submission: Complied Complied. Port has installed digital display boards at the main gate indicating the AAQ concentrations. Photographs attached as Annexure 29.		Date: 30/05/2025
56	MISCELLANEOUS	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.
PPs Submission: Being Complied Phase III development is under progress. Details of Financial Closure for the Phase III project to be furnished AKPL obtained CTE from APPCB for Order No. 633/APPCB/CFE/RO- NLR/HO/2010 dated 25.02.2021 Copy attached in Annexure16		Date: 30/05/2025
57	MISCELLANEOUS	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
PPs Submission: Being Complied Noted the condition.		Date: 30/05/2025
58	MISCELLANEOUS	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.
PPs Submission: Being Complied Being Complied.		Date: 30/05/2025
59	MISCELLANEOUS	No further expansion or modifications in the port area shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
PPs Submission: Being Complied Noted the condition and will be complied with		Date: 30/05/2025
60	MISCELLANEOUS	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.
PPs Submission: Being Complied Noted the condition and will be complied with.		Date: 30/05/2025
61	MISCELLANEOUS	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
PPs Submission: Being Complied Noted the condition.		Date: 30/05/2025
62	MISCELLANEOUS	The Ministry reserves the right to stipulate additional conditions if

		found necessary. The Company in a time bound manner shall implement these conditions.
PPs Submission: Being Complied Noted the condition.		Date: 30/05/2025
63	MISCELLANEOUS	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.
PPs Submission: Being Complied Noted the condition and will be complied with.		Date: 30/05/2025
64	MISCELLANEOUS	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.
PPs Submission: Being Complied Noted the condition and will be complied with		Date: 30/05/2025
65	MISCELLANEOUS	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.
PPs Submission: Complied Complied. Self certified Half yearly compliance report for the period of Apr24 to Sep24 along with monitoring reports were submitted MoEF CC and APPCB on 30.11.2024		Date: 30/05/2025
66	MISCELLANEOUS	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.
PPs Submission: Complied Complied. Submitting the 6 Monthly Self Certified Compliance Reports for the period from April 24 to September 24 respectively along with Terrestrial Marine Monitoring reports submitted on 30.11.2024 to MoEF CC and APPCB. Copies of the acknowledgments are attached as Annexure 9		Date: 30/05/2025
67	MISCELLANEOUS	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.
PPs Submission: Being Complied Being complied Form V Environmental Statement for the period 2023 2024 was submitted to APPCB MoEF CC vide letter AKPL/EHS/APPCB/FORM 5/082/2024 dated 26.09.2024. Copy attached as Annexure 6. Latest submission is on 28.09.2024 for the period 2023 2024		Date: 30/05/2025
68	Statutory compliance	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.

PPs Submission: Complied

A certificate of adequacy of available power agreements obtained from consent departments. (Copy attached as Annexure 25 B C)

Date:
30/05/2025

Visit Remarks

Last Site Visit Report Date:

N/A

Additional Remarks:

We are submitting the Self certified Half yearly compliance EC and CRZ compliance for the period from October 2024 to March 2025 along with the CTE CTO Compliance and monitoring reports

Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.



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Lr.No: AKPL/EHS/MoEF&CC/032/2025-26

Date:26/05/2025

To

The Integrated Regional Officer (IRO),
Ministry of Environment, Forest & Climate Changes (MoEF&CC),
Green House Complex, Gopal Reddy Road,
Vijayawada, Andhra Pradesh – 520010

Dear Sir,

Sub:- AKPL – Submission of NABL Accredited 3rd Party Certified Half Yearly Compliance Report on the conditions of EC & CRZ clearances of MoEF & CC along with Monitoring reports for the period of October 2024 to March 2025- Reg.

- Ref:-
1. For Phase – I -Vide Order No. 10-22/2005-IA-III dated 26th July 2006
 2. For Phase II - vide F. No. 11 – 62 / 2009 – IA.III dated 13th November 2009 and extended vide Oder even No. dated 18.08.2015 & 16.04.2018 and amended vide order dated 16.3.2016.
 3. Phase III vide File No: 1018/2016-IA.III dated 11.01.2021

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As per standard condition XI, Miscellaneous condition no. (iii) & (iv) of the EC & CRZ Clearance stipulates that "*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*".

With reference to the above, we are herewith submitting the 2nd Half-yearly EC & CRZ compliance reports of Adani Krishnapatnam Port Limited for the period of Oct'24 to Mar'25 done by NABL Accredited Laboratory B.S. Envi Tech Pvt. Ltd.,

Adani Krishnapatnam Port Ltd
PO Bag No 1, Muthukur Mandal,
SPSR Nellore District 524344
Andhra Pradesh, India
CIN: U45203AP1996PLC023529

Tel +91 861 237 7999
Fax +91 861 237 7046
info@adani.com
www.adaniports.com



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Thanking you,

Yours sincerely,

For **Adani Krishnapatnam Port Limited.,**

(Authorized Signatory)

Cc:

Environmental Engineer,
A.P Pollution Control Board,
Regional Office, SPSR Nellore,
Andhra Pradesh.

Adani Krishnapatnam Port Ltd
PO Bag No 1, Muthukur Mandal,
SPSR Nellore District 524344
Andhra Pradesh, India
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Registered Office: Adani Corporate House, Shantigram, Nr. Vaishno Devi Circle, S. G. Highway, Khodiyar, Ahmedabad – 382421, Gujarat, India



B.S. ENVI - TECH PVT. LTD.
CONSULTANTS - ENVIRONMENT & ENERGY

Ref: BSET/ENV/ADANI-AMC/2025

Date: 30.05.2025

To

M/s Adani Krishnapatnam Port limited
Muthukur (M), SPSR Nellore Dist.,
Andhra Pradesh.

Kind Attn. *Mr. Kaushal Singh (HOD-EHS)*

Sub: Certified Six-Monthly Compliance Report for EC & CRZ Clearance, Consent for Establishment, and Consent for Operation of Adani Krishnapatnam Port Limited, Muthukur Mandal, SPSR Nellore District, Andhra Pradesh.

Ref:

1. EC Order No.10-22/2005-IA-III dated 26.07.2006. No.10-08/2016-IA-III dated 11.01.2021(Phase I)
2. EC & CRZ Clearance F. No. 11 - 62 / 2009 - IA-III dated: 13th November 2009 (Phase II)
3. EC vide Order No.10-08/2016-IA-III dated 11.01.2021(Phase III)
4. CFE vide no:633/APPCB/CFE/RO-NLR/HO/2010 dated 25.02.2021
5. CFO vide no: APPCB/VJA/NLR/11344/CFO/HO/2019 dated 11.11.2022

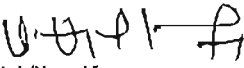
With reference to the above, we are submitting the certified compliance reports related to the Environmental Clearance (EC), Coastal Regulation Zone (CRZ) Clearance, Consent for Establishment and Consent for Operation for M/s Adani Krishnapatnam Port Limited, located at Muthukur (M), SPSR Nellore District, Andhra Pradesh, for the period from October 2024 to March 2025.

These reports have been prepared and duly certified by B S Envi-Tech Pvt. Ltd., a NABET-accredited Category A EIA Consultant and NABL-accredited analytical laboratory.

We kindly request you to acknowledge receipt of the submitted documents and arrange for the prompt release of the pending payment.

Thanking you,

Very truly yours,
For B S Envi - Tech Pvt. Ltd.


V. Vijay Kumar
Authorized Signatory
Encl: All above

HALF YEARLY COMPLIANCE REPORT

on the Conditions Stipulated in
Environmental & CRZ clearance



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**ADANI KRISHNAPATNAM PORT
LIMITED**

Muthukur (M), SPER Nellore Dist., Andhra Pradesh

FOR THE PERIOD: October-2024 To March-2025

- ↓ Ref: EC-vide Order No.10-22/2005-IA-III dated 26.07.2006. No.10-08/2016-IA-III dated 11.01.2021(Phase I)
- ↓ EC & CRZ Clearance F. No. 11 – 62 / 2009 – IA.III dated: 13th November 2009 (Phase II)
- ↓ vide Order No.10-08/2016-IA-III dated 11.01.2021(Phase III)

Project Proponent	Environmental Consultant
M/s. Adani Krishnapatnam Port limited Muthukur (M), SPER Nellore Dist, Andhra Pradesh – 524344 Phone: +91-891-2377999 Fax: +91-891-237 7046	B.S. Envi – Tech Pvt. Ltd., #12-13-1270/71/73, Amity Ville, 4th Floor, Beside Spencer Super Market, St. Ann's Road, Tamaka, Secunderabad-500017 Accreditation No: NABET/EIA/2326/RA 0302 (Rev .01) NABL Certificate No: TC-5233 & MoEFCC Recognised Laboratory

INTRODUCTION

The Krishnapatnam Port has its historical background. When Sri Krishnadeva Raya, the Vijayanagar Emperor, used to operate the port, thus the name was given to it as Krishnapatnam Port & now the name has been changed to Adani Krishnapatnam Port Limited (AKPL). AKPL, a private port operator located on the East Coast of India, an all-weather worldclass deep-water port of international standards and capable of handling Cape Size vessels round the clock throughout the year.

The port caters to land locked hinterland of South India with multimodal connectivity. Seamless connectivity by road and rail with very close proximity to National Highway 16 and National Rail Network (Chennai – Kolkata Main Line).

AKPL has got State of Art Infrastructure, Mechanized Handling Systems and dedicated storage yards which provides clean and contamination free handling facilities for bulk and break-bulk cargo.

AKPL is AEO Certified Port and has Customs EDI Connectivity with Customs Office headed by Joint Commissioner which is located within the port for faster custom clearance and quick assessment of cargo and containers.

AKPL is an ISMS Certified Port in relation to Core Port Operations – Information Technology, HR & Admin., Finance & Account, Safety & Environment, Security, Engineering Services, Dry Cargo Operations, Dredging, Commercial & Stores, Container Operations, Marine Services, and Railway Operations.

AKPL is an ISO 28000: 2007, ISO 9001:2015, ISO 14001 2015, ISO 45001:2018, and ISO 50001:2018, Certified Port for providing Port facilities for berthing, double banking, handling of ships, bulk, breakbulk, liquid and containerized cargos, its storage and transportation by road, rail, pipeline and conveyor.

As per the Environment Impact Assessment (EIA) Notification dated 14th September 2006 and the amendments thereof, Krishnapatnam port is classified under 'Category A' as schedule under activity 7(e).

LOCATION OF THE PROJECT

Adane Krishnapatnam Port is located at 14^o15'10" N Latitude and 80^o08'05" E Longitude in the SPSR Nellore District, Muthukur Mandal, Andhra Pradesh, along east coast of India about 180 km to north of Chennai Port. **Fig - 1** shows the approved layout.

AKPL has easy access to the hinterlands in proximity covering Andhra Pradesh, Karnataka and North Tamil Nadu by road, rail and air. It has become the largest automated port in South Asia.

STATUTORY APPROVALS

ENVIRONMENT & CRZ CLEARANCES FROM MOEFCC

- For Phase - I - received vide Order No. 10-22/2005-IA-III dated 26th July 2006
- For Phase II – received vide F. No. 11 – 62 / 2009 – IA.III dated 13th November 2009 and extended vide Order even No. dated 18.08.2015 & 16.04.2018 and amended vide order dated 16.3.2016.
- Phase III – received vide File No: 1018/2016-IA.III dated 11.01.2021.

Approval of Name Change from Krishnapatnam Port Company Limited to Adani Krishnapatnam Port Limited

Date of MoEFCC Approval	Environment Clearance dated	Project	From	To
10.03.2021	11.01.2021	Expansion of Krishnapatnam Port (Phase - III)	Krishnapatnam Port Company Limited	Adani Krishnapatnam Port Limited
08.02.2022	13.11.2009	Expansion of Krishnapatnam Port (Phase - II)	Krishnapatnam Port Company Limited	Adani Krishnapatnam Port Limited
08.02.2022	26.07.2006	Expansion of Krishnapatnam Port (Phase - I)	Krishnapatnam Port Company Limited	Adani Krishnapatnam Port Limited

CONSENT TO ESTABLISHMENT (CTE) from A.P. Pollution Control Board

- Order No. APPCB/VJA/NLR/633/HO/2004/9 - 467 dt. 25.05.2004. The Phase - I facility was commissioned during the year 2009.
- Order No. 633/PCB/CFE/RO-NLR/HO/2010-390 dated 08.05.2010. Extended vide Order dated 02.07.2015 and amended vide Orders dated 14.03.2014, 02.07.2015, 10.07.2016, 04.01.2017 & 22.02.2018.
- Order No: 633/APPCB/CFE/RO-NLR/HO/2010 Dt. 25.02.2021 and amended vide order dated 06.04.2021 and 16.07.2021.

CONSENT TO OPERATE (CTO) from A.P. Pollution Control Board

- Order No. APPCB/VSP/VJA/NLR/633/CFO/HO/2009-582, dated 08.06.2009
- Order No. APPCB/VJA/NLR/11344/CFO/HO/2018 dated 29.07.2018 & 30.08.2018 which is valid till 31st October 2023.
- Order No: APPCB/VJA/NLR/11344/CFO/HO/2019 dated 11.11.2022 valid till 31.08.2027. This CFO has superseded all CFO, and its amendments issued by APPCB earlier.

Presently, AKPL is operating 13 berths, with an approved cargo handling capacity of 78 MTPA of non-container cargo and 2.0 MTEUs PA of container cargo.

OPERATIONS

The Cargo comprises mainly of Coal, Gypsum and Granite. The bulk Liquids are handled through the ship's pumps. Pipelines have been provided for transportation of liquid cargo from berths to tank farms of users.

- AKPL is currently operating 13 No. of Berths.
- Out of which Berth No. N1 and N2 are Container berths, Berth No. N4, N6, N7, N8, NW1, NW2 & NW3 are fully mechanized berths.
- Berths N3, N5 & S4 are semi-mechanized berths. Berth no L4 is Liquid Jetty dedicated for POL products.

APPROVED CARGO PROFILE AS PER EC & CRZ CLEARANCE OF MOEF & CC

Cargo	Capacity approved till Phase II	Phase III Proposed expansion	Total after implementation of Phase III
Coal	51 MMTPA	88 MMTPA	139 MMTPA
Iron Ore	8 MMTPA	-	8 MMTPA
General Cargo	9 MMTPA	10.5 MMTPA	19.5 MMTPA
Liquid Cargo	-	51.7 MMTPA	51.7 MMTPA
Container	2 MTEUsPA	1.1 MTEUsPA	3.1 MMTPA
No. of Berths	12 Berths	Approved 16 (Incl. 3 Liquid Berths & and 3 SBMs Constructed 1 Liquid jetty	28 berths
Total Capacity	68 MMTPA (Non- Container) + 2 MTEUs PA (Container)	150.2 MMTPA (Non- Container) + 1.1 MTEUs PA (Container)	218.2 MMTPA (Non- Container) + 3.1 MTEUs PA (Container)

AKPL is presently operating 13 No. of Berths.

S. No	Name of the Berths	Type of Cargo handled	Type of Loading/ Unloading System
1.	N1	Container berth	Mechanized
2.	N2	Container berth	Mechanized
3.	N3	General Cargo berth	Semi-Mechanized
4.	N4	General Cargo berth	Fully Mechanized
5.	N5	Coal cargo berth	Semi-Mechanized
6.	N6	Coal cargo berth	Fully Mechanized

S. No	Name of the Berths	Type of Cargo handled	Type of Loading/ Unloading System
7.	N7	Coal cargo berth	Fully Mechanized
8.	N8	Coal cargo berth	Fully Mechanized
9.	NW1	Multipurpose	Fully Mechanized
10.	NW2	Iron Ore	Fully Mechanized
11.	NW3	General Cargo	Fully Mechanized
12.	S4	Coal cargo berth	Semi-Mechanized
13.	L4	Liquid jetty for POL products	Pipelines

EC & CRZ Clearance for Expansion of Krishnapatnam Port (Phase - I) at SPSR Nellore District, Andhra Pradesh vide Order No.10-22/2005-IA-III dated 26.07.2006.

Third-Party Six-Monthly Compliance Report (October, 2024 – March, 2025)

S. No	MoEF Stipulations	Compliance Status
(A)	Specific Conditions	
i.	All the conditions stipulated by Andhra Pradesh State Pollution Control Board in their letter Order No. APPCB/VJA/NLR/633/HO/2004/9/467, dated 25.05.2004 should be strictly implemented.	The conditions stipulated by Andhra Pradesh State Pollution Control Board in their letter Order No. APPCB/VJA/NLR/633/HO/2004/9/467, dated 25.05.2004 are being complied with.
ii.	Detailed plan for protection of the 9 acres of the mangroves should be provided.	Complied. <ul style="list-style-type: none"> ➤ 9 Acres of mangroves are under protection. ➤ Display boards and fencing have been erected to protect the mangrove area. ➤ The Mangrove Mapping study was carried out by NIOT, Chennai in the year 2017-18, and 2019 and reported that no adverse impact observed on the existing mangroves. ➤ A latest study for Mangrove Mapping and carbon sequestration was carried out by Falcon Resilient Infra Consultants, Hyderabad in the month of October - 2024.
iii.	The fisherman and salt pan workers should be rehabilitated as per the Rules of Government of Andhra Pradesh.	Complied. <ul style="list-style-type: none"> ➤ Rehabilitation (R&R) of fishing villages was carried out by Government of Andhra Pradesh (GoAP) as per Government norms. ➤ R&R package to displaced families and a Project Affected families were implemented by the GoAP. ➤ The total number of 450 Fishermen families Rehabilitated by GOAP. A copy of letter No. 2736/P.I (1)/2007 dated Copy attached as Annexure 1
iv.	Adequate shore protection measures, including construction of revetments/rip-raps, should be taken up based on the scientific studies. The action plan for implementing the shore protection measures should be submitted to this Ministry within 6 months from the date of receipt of this letter.	Complied. <ul style="list-style-type: none"> ➤ Hydro dynamic studies were conducted by M/s. HR Wallingford, UK. ➤ M/s. Indian National Centre for Ocean Information Services (INCOIS), Hyderabad has been monitoring using satellite imagery ➤ AS per the INCOIS Report for the period October 2008 to January 2010, the coastline is found to be stable.



13 8 *[Handwritten Signature]*

S. No	MoEF Stipulations	Compliance Status
		<ul style="list-style-type: none"> ➤ Long time Shore line stability study was conducted by NIOT, Chennai in 2017-18, 2019. ➤ Based on this study report coastal line is found to be stable and "cause negligible impacts on the environment". ➤ AKPL appointed NIOT for shore line stability study and same report as submitted on 16.04.2025 to APPCB, RO Nellore. ➤ Letter vide no. AKPL/EC/ENV/007/2025-26 dated 09.04.2025, and the same is attached as Annexure 7
v.	Green belt area should be developed along the project and budget earmarked.	<p>Being Complied.</p> <ul style="list-style-type: none"> ➤ At present Green belt of 213.60 Ha developed along the port boundary, around coal yards, avenue. ➤ Budget spent towards green belt area development for FY 23 -24 is 78.90 Lakhs & FY 24-25 is 82.41 Lakhs. ➤ List of the species planted Kadamba, Badam, Tabebuia argentea, Polyalthia longifolia Spalhodea campanulate Samanea saman, Mangifera indica, Psidium guava, Bougainvillea, Pheonix palm, Ixora chinensis rosea, Pandanus Veitchi, Cocos Nucifera, Allamanda nerifolia, Bougainvillea Peditanthus, Cassia fistula, Peltophorum, Cassia siamea, Delonix regia, Hibiscus rosa-sinensis, Clitoria ternatea, Casuarina Equisetifolia, ➤ Latest Green Belt Drawing is attached as Annexure C
vi.	For rail and road connectivity of the project, separate application should be submitted to this Ministry.	<p>Noted & complied.</p> <p>The R & B Department, Government of Andhra Pradesh has accorded permission for Rail and Road Connectivity vide letter no.182/K.P.Port/ATO/04 Dt.22.07.2005.</p> <p>The Road Connectivity was for forming a two-lane road (extendable up to six lanes) from the NH-16 to the krishnapatnam Port. The Road infrastructure is developed by GoAP. The copy is attached as Annexure 2</p>
vii.	The Bay is reported to be calm for most of the days of the year. Even on the day of the visit, having a deep depression in South-West Bay of Bengal, the	Being Complied.



B S E

S. No	MoEF Stipulations	Compliance Status
	basin was calm, though the Bay experienced high waves. Hence, dredging operation in the estuary should not have any adverse impact on the existing mangroves blocks.	<ul style="list-style-type: none"> ➤ The Mangrove Mapping study was carried out by NIOT, Chennai in the year 2017-18, and 2019 and reported that no adverse impact observed on the existing mangroves. ➤ Dredging has been carried out in a phased manner without disturbing the existing mangroves blocks. ➤ Studies were also conducted by NCSCM during May 2022 & 2023 and reported that this condition is complied with. ➤ NCSCM is Monitoring the Land, Air quality, Noise, Water, Marine, Marine sediment parameters and mangroves, ones in four years. ➤ NCSCM report submitted in APPCB RO Nellore with vide letter no. AKPL/EC/APPCB/125/2024-25 dated 09.01.2025. The copy of the same is attached as Annexure 15
viii.	During the rough weather, resulting in high flood tides, dredging operation in the estuary should be stopped.	<p>Noted & being Complied.</p> <ul style="list-style-type: none"> ➤ No dredging activity is carried out during high flood tides & during rough weather conditions
ix.	Regarding the location of stock yard in the salt pan area to be acquired, the proponent should not take up any developmental works in the mangrove area and should ensure that no destruction of mangroves takes place.	<p>Salt pan lands are yet to be transferred on lease by GoAP.</p> <p>The Mangrove area is left untouched and no developmental activities is carried out in the Mangroves area.</p>
x.	A disaster management plan covering emergency evacuation mechanism etc., to deal with natural disaster events should be prepared and furnished to the Ministry.	<p>Complied.</p> <ul style="list-style-type: none"> ➤ DMP covering emergency evacuation mechanisms etc., to deal with natural disasters was prepared and submitted to the Ministry vide letter No. KP/MOEF/275 dated 11.07.2008. ➤ The DMP was updated recently, and a copy was submitted to the office of the District Magistrate vide letter dated 30.08.2024. The Copy of the same is attached as Annexure 3 ➤ The last update was on March 2024 and submitted to RO, MoEF&CC along with six monthly compliance report (Oct'23 to Mar'24) vide letter No. AKPL/EHS-EC/MOEF &CC/112/2024-25 dated 20.05.2024.
xi.	The company must take up and earmark adequate funds for the socio-economic development and for	Being Complied.



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S. No	MoEF Stipulations	Compliance Status
	welfare measures in the area including drinking water supply, vocational training, and fishery	<ul style="list-style-type: none"> ➤ As part of CSR socio economic development schemes and welfare measures in the form of Roads, Drains, drinking water supply by providing tankers and overhead tanks, sanitation and public health, roads and street lighting in the R&R Colonies, educational assistance, women empowerment etc., are being taken up for the neighborhood villages covering with adequate funds earmarked for the same. ➤ For the FY 23-24 AKPL has spent 674.32 Lakhs towards CSR socio economic development schemes and welfare measures. ➤ The details of the expenditure and Photographs are attached as Annexure 4
xii.	The fishing activities by the fishermen living in the settlement along the creek should not be hindered and a mechanism may be evolved for the movement of fishing boats vis-a-vis shipping activities.	<p>Being complied.</p> <ul style="list-style-type: none"> ➤ Mechanism for the movement of fishing boats vis-à-vis shipping has evolved keeping in mind the safety, security, ISPS and customs requirements and is being followed to ensure no hindrance to fishermen.
xiii.	The Relocation of the fishermen and local communities in the area should be done strictly in accordance with the norms prescribed by the State Government. The relocated communities should be provided with all facilities including health care, education, sanitation and livelihood.	<p>Complied.</p> <ul style="list-style-type: none"> ➤ R&R package to the displaced families and a Project Affected Families were implemented by the GoAP. ➤ AKPL provided infrastructure facilities under CSR activities at the Rehabilitation Colony in the form of development of Roads, Drains, drinking water supply, supply of cooking gas, housing, educational assistance, student hostels, old age homes, financial aid, imparting vocational trainings, women empowerment and public health, Malaria Control measures, Medical and Health camps Expenditure along with photos of CSR activities are attached as Annexure 4
xiv.	The company should take up green belt program in the project area including an ecological park and the plan may be submitted to the Ministry within one year.	<p>Being Complied.</p> <ul style="list-style-type: none"> ➤ As of now, greenbelt developed in an extent of 213.60 Ha ➤ Developed block plantation along port boundary, 100 m width coastal plantation, plantation roads and, around coal yards



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S. No	MoEF Stipulations	Compliance Status
		<p>and avenue, median plantations all along the internal road networks. Ecological Park developed.</p> <p>➤ Latest Green Belt Drawing attached as Annexure C</p>
xv.	<p>The company may suitably modify the alignment of channel entrance including its width, turning circle, taking into consideration the wave traversal, its intensity etc., to facilitate smoother navigation of ships.</p>	<p>Complied.</p> <p>➤ The channel alignment for well-ordered ship navigation is designed based on navigation simulation studies dated March 2009 by M/s. HR Wallingford, UK.</p>
xvi.	<p>The breakwater alignment and its design should be further modified based on relevant model studies, borehole data etc., keeping in view the tranquility condition required for berthing and maneuvering of ships and subsequent cargo handling operations.</p>	<p>Complied.</p> <p>➤ The alignment and design of breakwaters are finalized based on geotechnical investigations, stability analysis, Numerical model studies undertaken by M/s. HR Wallingford, UK.</p> <p>➤ 3D model studies of tranquility conducted at Lanka Hydraulic Laboratories, Sri Lanka and Physical model studies of breakwaters at IIT Chennai.</p>
xvii.	<p>The height of dumping in the dumping site should be restricted to 30 cm against 90 cm proposed.</p>	<p>Complied.</p> <p>➤ The bathymetry of dumping site is being monitored periodically to avoid build up.</p>
xviii.	<p>The project proponent will not undertake any destruction of mangroves during construction and operation of the project.</p>	<p>Complied.</p> <p>➤ Existing mangrove areas are being protected and conserved with suitable barricading, erection of display boards and ensuring the tidal flow exchange.</p> <p>➤ Display boards and fencing have been erected to protect the mangrove area.</p> <p>➤ The Mangrove Mapping study was carried out by NIOT, Chennai in the year 2017-18 and 2019 and reported that no adverse impact observed on the existing mangroves.</p> <p>➤ A latest study for Mangrove Mapping and carbon sequestration was carried out by Falcon Resilient Infra Consultants, Hyderabad.</p>
xix.	<p>Sewage arising in the port area should be disposed off through septic tank – soak pit system or should be treated along with the industrial effluents to conform to the standards stipulated by Andhra Pradesh Pollution Control Board and should be utilized/ re-cycled for gardening, plantation and irrigation.</p>	<p>Complied</p> <p>➤ AKPL has been operating 2 No. of Sewage Treatment Plants (STP) 1 X 500 KLD & 1 X 40 KLD for treatment of sewage generated in the port.</p>



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		<p>➤ Treated wastewater from STP is being utilized for the green belt within port premises.</p> <table border="1"> <thead> <tr> <th>S.No</th> <th>Month</th> <th>Treated Water (KL)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>OCT'24</td> <td>5533</td> </tr> <tr> <td>2</td> <td>NOV'24</td> <td>4971</td> </tr> <tr> <td>3</td> <td>DEC'24</td> <td>4632</td> </tr> <tr> <td>4</td> <td>JAN'25</td> <td>4271</td> </tr> <tr> <td>5</td> <td>FEB'25</td> <td>4077</td> </tr> <tr> <td>6</td> <td>MAR'25</td> <td>4764</td> </tr> </tbody> </table>	S.No	Month	Treated Water (KL)	1	OCT'24	5533	2	NOV'24	4971	3	DEC'24	4632	4	JAN'25	4271	5	FEB'25	4077	6	MAR'25	4764
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xx.	Adequate plantation should be carried out along the roads of the Port premises and a green belt should be developed.	<p>Complied.</p> <ul style="list-style-type: none"> ➤ Development of Greenbelt is a regular process in AKPL. ➤ As of now, greenbelt developed in an extent of 213.60 Ha ➤ List of the species planted Kadamba, Badam, Tabebuia argentea, Polyalthia longifolia, Spathodea campanulate Samanea saman, Mangifera indica, Psidium guava, Bougainvillea, Phoenix palm, Ixora chinensis rosea, Pandanus Veitchi, Cocos Nucifera, Allamanda nerifolia, Bougainvillea Pedilanthus, Cassia fistula, Peltophorum, Cassia siamea, Delonix regia, Hibiscus rosa-sinensis, Clitoria ternatea, Casuarina Equisetifolia. ➤ The Expenditure for maintenance of the Green Belt during the financial Year 2024-2025 is 82.41 Lakhs. ➤ 150 No. of local manpower are being engaged for the Development and Maintenance of the Green Belt in the Project. ➤ Latest Green Belt Drawing attached as Annexure C 																					
xxi.	Project proponent should prepare and regularly update the Disaster Management Plan from time to time.	<p>Being complied.</p> <ul style="list-style-type: none"> ➤ DMP covering emergency evacuation mechanisms etc., to deal with natural disasters was prepared and submitted to the Ministry vide letter No. KP/MOEF/275 dated 11.07.2008 same as regularly updated. ➤ Latest DMP update copy submitted to District Magistrate office on 30.08.2024. ➤ The updated copy of the DMP was submitted to office of the District Magistrate, SPSR Nellore District office 																					



S. No	MoEF Stipulations	Compliance Status
		vide letter AKPL/CORPORATE AFFAIRS/DMP/071/2024-25 dated 30.08.2024. The copy of the same is attached as Annexure 3
xxii.	Fire Fighting arrangements are examined to the new proposal.	Complied. <ul style="list-style-type: none"> ➤ Port has developed dedicated firefighting system with required equipment and trained professionals. ➤ Developed Fire contingency plan and implemented the same. ➤ Port Tugs are also having firefighting equipment. ➤ AKPL has obtained Fire NOC from consent department for within the premises of the port. ➤ Copy of approvals are attached as Annexure- 13
xxiii.	There should be no withdrawal of ground water in CRZ area, for this project. The proponent should ensure that as a result of the proposed constructions, ingress of saline water into ground water does not take place. Piezometers should be installed for regular monitoring for this purpose at appropriate locations on the project site.	Complied. <ul style="list-style-type: none"> ➤ There is no withdrawal of ground water. ➤ The port is in operational Phase. ➤ AKPL is meeting water requirement from Nakkala kalava & OSS Tankers. ➤ Piezometer (Automatic water level monitoring system including temperature monitoring) has been installed at port and regular monitoring being carried out with NABL Accredited Laboratory. ➤ Half yearly monitoring reports being submitted to MoEFCC.
xxiv.	The project should not be commissioned till the requisite water supply and electricity to the project are provided by the PWD/Electricity Department.	Complied. <ul style="list-style-type: none"> ➤ Port has obtained necessary permissions like water supply from water resources department AP and electrical supply from APSPDCL, copy of the same is attached as Annexure 25 A, B & C
xxv.	Specific arrangements for rainwater harvesting should be made in the project design and the rainwater so harvested should be optimally utilized. Details in this regard should be furnished to this Ministry's Regional Office at Bangalore within 3 months.	Complied. <ul style="list-style-type: none"> ➤ 13 nos. of Rainwater harvesting ponds developed at various locations in Port premises. And the same is presented in Annexure 5
xxvi.	The facilities to be constructed in the CRZ area as part of this project should be strictly in conformity with the provisions of the CRZ Notification, 1991 as amended subsequently.	The following facilities are constructed within the CRZ facility and are permitted activity as per the Notification 1991.
xxvii.	Green buffer zone should be provided all around the project area in consultation with local forest	Complied.



S. No	MoEF Stipulations	Compliance Status
	department and the report submitted to this Ministry's Regional Office at Bangalore.	<ul style="list-style-type: none"> ➤ Development of Greenbell is a regular process in AKPL. ➤ As of now, the greenbelt developed to an extent of 213.60 Ha ➤ Maintaining greenbelt of 100 m width along the periphery. ➤ Developed 3.5 Ha of greenbelt near liquid jetty area in phase III along the shoreline boundary. ➤ Maintaining 20-meter width greenbelt around the coal stack yards. ➤ List of the species planted Kadamba, Badam, Tabebuia argentea, Polyalthia longifolia, Spathodea campanulate Samanea saman, Mangifera indica, Psidium guava, Bougainvillea, Pheonix palm, Ixora chinensis rosea, Pandanus Veitchi, Cocos Nucifera, Allamanda nerifolia, Bougainvillea Pedilanthus, Cassia fistula, Peltophorum, Cassia siamea, Delonix regia, Hibiscus rosa-sinensis, Clitoria ternatea, Casuarina Equisetifolia. ➤ Latest Green Bell Drawing attached as Annexure C
xxviii.	No product other than those permissible in the Coastal Regulation Zone Notification, 1991 should be stored in the Coastal Regulation Zone area.	Noted and being Complied.
(B) General Conditions		
1.	Construction of the proposed structures should be undertaken meticulously conforming to the existing Central/local rules and regulations including Coastal Regulation Zone Notification 1991 & its amendments. All the construction designs / drawings relating to the proposed construction activities must have approvals of the concerned State Government Departments / Agencies	<p>Complied.</p> <ul style="list-style-type: none"> ➤ The construction designs /drawings were in conformity to the detailed project reports approved by GoAP and consistent with the CRZ Notification. ➤ Copy of Approved layout from Energy, infrastructure & investment department, AP, and the same is attached as Annexure D
2.	Adequate provisions for infrastructure facilities such as water supply, fuel, sanitation etc., should be ensured for construction workers during the construction phase of the project so as to avoid felling of trees/mangroves and pollution of water and the surroundings.	<p>Complied.</p> <ul style="list-style-type: none"> ➤ Adequate provisions including water supply, fuel and sanitation were ensured for workers at the time of construction. ➤ The construction of Phase-I development was completed on 01.09.2009 and commercial operations started after obtaining CTO from APPCB vide Letter dated APPCB/VSP/VJA/NLR/633/CFO/HO/2009
3.	The project authorities must take necessary arrangements for disposal of solid wastes and for	Complied.



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	<p>the treatment of effluents by providing a proper waste water treatment plant outside the CRZ area. The quality of treated effluents, solid wastes and noise level etc., must conform to the standards laid down by the competent authorities including the Central / State Pollution Control Board and the Union Ministry of Environment and Forests under the Environment (Protection) Act, 1986, whichever are more stringent.</p>	<p>Solid waste has been collected, segregated and disposed as below</p> <table border="1"> <thead> <tr> <th>S. No</th> <th>Material</th> <th>Methods of Disposal</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Biodegradable waste</td> <td>Canteen waste: Composting & used as manure/sand to pig-farms</td> </tr> <tr> <td>2</td> <td>Non-Biodegradable waste</td> <td>Disposal to appropriate recyclers</td> </tr> <tr> <td>3</td> <td>Used Oils/Used Batteries</td> <td>Batteries are procured on buy back basis and Used oil is being disposed to approved vendors of APPCB</td> </tr> </tbody> </table> <ul style="list-style-type: none"> ➤ Operating 2 No. of STPs (1 X 500 KLD & 1 X 40 KLD) outside the CRZ area. ➤ Appointed an third party NABL accredited agency to carry-out Terrestrial & Marine Monitoring and STP inlet & outlet sample analysis. ➤ Submitting the report to SPCB on monthly basis & on Half-yearly basis to MoEF & CC. ➤ Treated water is being used for Green Bell development. <table border="1"> <thead> <tr> <th>S. No</th> <th>Month</th> <th>Treated Water (KL)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>OCT'24</td> <td>5533</td> </tr> <tr> <td>2</td> <td>NOV'24</td> <td>4971</td> </tr> <tr> <td>3</td> <td>DEC'24</td> <td>4632</td> </tr> <tr> <td>4</td> <td>JAN'25</td> <td>4271</td> </tr> <tr> <td>5</td> <td>FEB'25</td> <td>4077</td> </tr> <tr> <td>6</td> <td>MAR'25</td> <td>4764</td> </tr> </tbody> </table> <ul style="list-style-type: none"> ➤ Copy of form 4 is attached as Annexure A 			S. No	Material	Methods of Disposal	1	Biodegradable waste	Canteen waste: Composting & used as manure/sand to pig-farms	2	Non-Biodegradable waste	Disposal to appropriate recyclers	3	Used Oils/Used Batteries	Batteries are procured on buy back basis and Used oil is being disposed to approved vendors of APPCB	S. No	Month	Treated Water (KL)	1	OCT'24	5533	2	NOV'24	4971	3	DEC'24	4632	4	JAN'25	4271	5	FEB'25	4077	6	MAR'25	4764
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4.	<p>The proponents should provide for a regular monitoring mechanism so as to ensure that the treated effluents conform to the prescribed standards. The records of analysis reports must be properly maintained and made available for inspection to the concerned State / Central officials during their visits.</p>	<p>Complied.</p> <ul style="list-style-type: none"> ➤ AKPL has been Operating 2 No. of STPs (1 X 500 KLD & 1 X 40 KLD) outside the CRZ area. ➤ Environmental Monitoring is being carried out through a third party NABL accredited agency and approved by MoEF&CC. 																																			



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S. No	MoEF Stipulations	Compliance Status																					
		<p>Results of monitoring conform to norms and periodical Monitoring Reports are being submitted to APPCB regularly.</p> <ul style="list-style-type: none"> ➤ Latest Monitoring submitted to APPCB in the Month of April'25. Copy of same is attached as Annexure 24 ➤ Treated water is being used for Green Belt development. <table border="1"> <thead> <tr> <th>S. No</th> <th>Month</th> <th>Treated Water (KL)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>OCT'24</td> <td>5533</td> </tr> <tr> <td>2</td> <td>NOV'24</td> <td>4971</td> </tr> <tr> <td>3</td> <td>DEC'24</td> <td>4632</td> </tr> <tr> <td>4</td> <td>JAN'25</td> <td>4271</td> </tr> <tr> <td>5</td> <td>FEB'25</td> <td>4077</td> </tr> <tr> <td>6</td> <td>MAR'25</td> <td>4764</td> </tr> </tbody> </table> <ul style="list-style-type: none"> ➤ Records are being maintained and made available for statutory inspection during their visits. 	S. No	Month	Treated Water (KL)	1	OCT'24	5533	2	NOV'24	4971	3	DEC'24	4632	4	JAN'25	4271	5	FEB'25	4077	6	MAR'25	4764
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5.	In order to carry out the environmental monitoring during the operational phase of the project, the project authorities should provide an environmental laboratory well equipped with standard equipment and facilities and qualified manpower to carry out the testing of various environmental parameters.	<p>Complied.</p> <ul style="list-style-type: none"> ➤ AKPL has in-house laboratory and proposed upgradation with latest equipment is under progress. Photographs of the same is attached as Annexure E. ➤ Regular monitoring is being carried out by a third party NABL Accredited Laboratory and reports are being submitted to statutory bodies. 																					
6.	The sand dunes and mangroves, if any, on the site should not be disturbed in any way.	Noted and being Complied.																					
7.	A copy of the clearance letter will be marked to the concerned Panchayat/local NGO, if any, from whom any suggestion/ representation has been received while processing the proposal.	<p>Complied.</p> <ul style="list-style-type: none"> ➤ Copies of Environmental Clearance letters were submitted to Sarpanch, Krishnapatnam Grama Panchayat, Nellore. ➤ The letter was submitted to the President, Nellore District Mechanized Fishing Boat Operators Association vide. 																					
8.	The Andhra Pradesh Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's Office/Tehsildar's Office for 30 days.	Noted																					
9.	The funds earmarked for environment protection measures should be maintained, in a separate account and there should be no diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards should	<p>Complied</p> <ul style="list-style-type: none"> ➤ The Funds & Expenditure earmarked for environment protection measures are being reported in Form - V Environmental 																					



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S. No	MoEF Stipulations	Compliance Status
	be reported to this Ministry's Regional Office at Bangalore and the State Pollution Control Board.	Statement and Submitting the same to APPCB regularly. ➤ Last FY 23-24 AKPL has spent 20.82 cr. towards environment protection measures. ➤ Latest submission is on 28.09.2024 for the period 2023-2024. ➤ Copy of Form – V is attached as Annexure 6
10.	Full support should be extended to the officers of this Ministry's Regional Office at Bangalore and the officers of the Central and State Pollution Control Boards by the project proponents during their inspection for monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.	Noted the condition and being complied with.
11.	In case of deviation or alteration in the project including the implementing agency, a fresh reference should be made to this Ministry for modification in the clearance conditions or imposition of new ones for ensuring environmental protection.	Noted the condition
12.	The Ministry reserves the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of this Ministry.	Noted the condition
13.	The Ministry or any other competent authority may stipulate any other additional conditions subsequently, if deemed necessary, for environmental protection, which should be complied with.	Noted the condition
14.	The project proponent should advertise in at least two local newspapers widely circulated in the region around the project, one of which should be in the vernacular language of the locality concerned, informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen at Website of the Ministry of Environment & Forests at http://www.envfor.nic.in . The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Bangalore.	Complied. ➤ Advertisement was published in Local Newspaper Andhra Jyothi dated 11.08.2006. ➤ A copy of the advertisement was submitted to the Regional Office, Bangalore of MoEF vide Letter No.KP/MOEF/346 dated 23.08.2007.
15.	The project proponents should inform the Regional Office at Bangalore as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of Land Development Work.	Complied. Financial Closure for the Phase – I of the Krishnapatnam Port Project was completed on 16.10.2006.



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S. No	MoEF Stipulations	Compliance Status
		<p>Details were furnished to the MoEF&CC, Regional Office, Bangalore, vide our letter no. KP/MOEF/60 dated 16th Feb, 2007.</p> <p>Approval of the Project by GoAP. 17.09.2004</p> <p>Commencement of the of Land Development - June, 2006.</p>
16.	<p>The above-mentioned stipulations will be enforced among others under the Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (protection) Act, 1986, the Hazardous Chemicals (Manufacture, Storage and Import) Rules, 1989, the Coastal Regulation Zone Notification, 1991 and its subsequent amendments and the Public Liability Insurance Act, 1991 and the Rules made there under from time to time. The project proponents should also ensure that the proposal complies with the provisions of the approved Coastal Zone Management Plan of Andhra Pradesh State and the Supreme Court's order dated 18th April, 1996 in the Writ Petition No.664 of 1993 to the extent the same are applicable to this proposal.</p>	Noted and being complied.



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Compliance Status of MoEFCC EC & CRZ Clearance F. No. 11 – 62 / 2009 – IA.III dated: 13th November 2009 (Phase II)

S.No	MoEF Stipulations	Compliance Status
Specific Conditions		
1.	All the conditions as stipulated by the Forests & Environment Department, Govt. of Andhra Pradesh vide letter No.2286/CZMA/2009; dated 11.05.2009 shall be strictly complied.	Noted and being complied. The APCZMA recommended the project proposal to MoEFCC in this letter. All conditions stipulated therein are being strictly complied.
2.	All the details / information submitted by the project proponent vide letter No.KP/MOEF/PH-II/174, dated 17.08.2009 shall be strictly complied.	Complied. <ul style="list-style-type: none"> ➤ Southern Boundary of proposed dredge disposal area of Phase-II has been moved towards North to coincide with Northern Boundary of Phase-I dredge disposal area. ➤ Belt Conveyors and Road Bridge crossings have no impact on Mangroves. Railway Bridge Location is reworked to avoid disturbance to mangroves. ➤ M/s. Indian National Centre for Ocean Information Services (INCOIS) was engaged for coastal monitoring. As per their Report for 2008-10, the port development has not impacted the coast. ➤ Runoff from coal storage yards is routed through peripheral drains, collection pits and guard (Dump) ponds with facility to recycle the water for dust suppression. ➤ AKPL appointed NIOT for shore line stability study and same report as submitted on 16.04.2025 to APPCB, RO Nellore. ➤ Letter vide no. AKPL/EC/ENV/007/2025-26 dated 09.04.2025. The copy of the same is attached as Annexure 7
3.	The hydro-dynamic studies shall be undertaken to ascertain the impact to the shoreline in the stretch and ecologically sensitive areas and the report shall be submitted to the Ministry.	Complied. Hydro dynamic studies were conducted by M/s. HR Wallingford, UK. Copy of the same is enclosed as Annexure - F Shoreline monitoring & Marine biodiversity studies are being carried out regularly for shore protection.
4.	Ministry has taken a decision that the plantation of mangroves shall be undertaken on an area of 50 ha. as the Phase-II of the project spreads over 800 ha.	Complied. Mangrove's development in 50 Ha. has been undertaken within the port.



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		Photographs are attached as Annexure - 8
5.	Six monthly monitoring shall be carried out and a comparative analysis shall be made to examine for any mitigative measures required.	Being complied. Submitting the half yearly NABL Accredited 3rd Party Compliance Reports for the period from October'24 to March'25 along with Terrestrial & Marine Monitoring reports to MoEF & CC and APPCB on 20.05.2024. Self-certified Half yearly compliance report for the period of Apr'24 to Sep'24 along with monitoring reports submitted MoEFCC and APPCB on 30.11.2024 Copies of the acknowledgments are attached as Annexure-9
6.	The temperature, salinity and tidal inflow shall be monitored weekly.	Complied. ➤ AKPL appointed a NABL Accredited SV enviro Laboratory to conduct Environmental Monitoring i.e., Terrestrial & Marine parameters. ➤ Monitoring is being carried out on a weekly basis. ➤ Summary analysis tables and trend analysis graphical representations are attached in report.
7.	The greenbelt of 100 m. width shall be developed around the coal stack yard as per the request in the public hearing.	Complied. AKPL submitted a letter to MoEF&CC vide letter No.. KP/MOEF/113 dated 29.08.2012 to modify this condition and developed 100 m width Green belt along the port boundary, coastal area and 20 m wide green belt around coal stack yards instead of 100 m width greenbelt development around the coal yards as requested during public hearing. Copy of the letter is attached as Annexure-10
8.	Impact on the drawl of the water from the Kandaleru Creek shall be regularly monitored and report submitted to the Ministry.	Complied AKPL is not withdrawing water from Kandaleru Creek. Complying with the condition, the quality of water is being monitored and the reports are being submitted to APPCB on monthly basis and MoEF&CC on half-yearly basis. Oct'24 to Mar'25 consolidated Reports are enclosed as Annexure 30
9.	Continuous monitoring on disposal of dredged material shall be put in place for both pre and post monsoon periods.	Complied.



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		Bathymetry of the disposal area of dredged material i.e., the dumping grounds are being monitored periodically for both pre and post monsoon periods.
10.	No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	Being complied.
11.	Oil spills if any shall be properly collected and disposed as per the Rules.	<p>Complied</p> <ul style="list-style-type: none"> ➤ Oil Spills are being managed as per the approved Oil Spill Contingency Plan. ➤ AKPL has provided Oil Boom, Skimmer and chemicals to attend any accidental oil spills. ➤ Staff was trained to meet Tier-I Oil spills. ➤ As per Disaster Management Plan, Indian Coast Guard will be alerted to coordinate. ➤ Details were furnished to the MoEF&CC Regional Office, Bangalore, vide our letter no. KP/MoEF/PH-II/20 dated 02.02.2010. <p>Latest OPR drill was conducted at the port on 19.02.2025.</p> <p>Copy of the same is attached as Annexure- 11</p>
12.	The approach channel shall be properly demarcated with lighted buoys for safe navigation and adequate traffic control guidelines shall be framed. The fishermen shall be suitably educated and informed about the traffic guidelines.	<p>Complied.</p> <ul style="list-style-type: none"> ➤ The approach channel has been marked with lighted buoys for safe navigation. ➤ Adequate traffic control guidelines were framed, and copy was submitted to the Fisheries Department to suitably inform fishermen.
13.	The project proponent shall set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.	<p>Complied.</p> <p>A separate Environmental Management cell was established headed by Vice President & supporting staff for effective implementation of the stipulated environmental safeguard.</p>
14.	No destruction of mangrove is permitted. The project proponent shall take up mangrove plantation / green belt in the project area, wherever possible. Adequate budget shall be provided in the Environment Management Plan for such mangrove development.	<p>Noted</p> <p>As per the EC of Phase-II development, the mangroves have been developed in the port for an area of 50 Ha. in the areas suggested by GoAP since the mangroves are highly sensitive to the soil conditions and grow only in specific areas. As per the Environment Health and Safety Plan for mangrove development, the annual budget allocated for the mangrove protection is about Rs. 6.80 lakhs for the year 2018-19.</p>
15.	The funds earmarked for environment management plan shall be included in the	Being complied.



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	budget and this shall not be diverted for any other purposes.	AKPL earmarked dedicated funds for environment management plan. Please find the last three years details. FY 2023-24- 2.41 Cr. FY 2022-23- 17.38 Cr. FY 2021-22- 4.36 Cr.
16.	There shall be no withdrawal of groundwater in Coastal Regulation Zone area. for this project In case any groundwater is proposed to be withdrawn from outside the CRZ area, specific prior permission from the concerned State / Central Groundwater Board shall be obtained in this regard.	Complied. No Ground water is extracted for port operations.
17.	The Hazardous waste generated shall be properly collected and handled as per the provisions of Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008	Complied. Hazardous waste like used oils / grease and batteries are being collected and handled as per the provisions of Hazardous Waste (Management, Handling and Trans boundary Movement) Rules, 2016 and their amendments.
18.	The wastewater generated from the activity shall be collected, treated and reused properly.	Complied ➤ AKPL has been operating 2 No. of Sewage Treatment Plants (STP) 1 X 500 KLD & 1 X 40 KLD for treatment of sewage generated in the port. ➤ The Treated water is being reused for the green belt within port premises.
19.	Sewage Treatment facility should be provided in accordance with the CRZ Notification.	Complied.
20.	No solid waste will be disposed of in the Coastal Regulation Zone area. The solid waste shall be properly collected, segregated and disposed as per the provision of Solid Waste (Management and Handling) Rules, 2000.	Being complied. ➤ AKPL has provided solid waste collection bins of 120 numbers at different locations within the Port ➤ Regular collection arrangements have been made from the bins provided. Solid wastes are being collected, Segregated and disposed as per the Solid Waste (Management and Handling) Rules, 2016 and their amendment.
21.	Installation and operation of DG set if any shall comply with the guidelines of CPCB.	Being complied.
22.	There shall be no reclamation / dredging of areas.	This condition was deleted by MoEF & CC vide letter no. F. No. 11-62/2009-IA.III dated 02.03.2010. The Copy of the same is attached as Annexure-12
23.	Air quality including the VOC shall be monitored regularly as per the guidelines of CPCB reported.	This condition was deleted by MoEF&CC vide letter F. No. 11-62/2009- IA.III dated 02.03.2010. The Copy of the same is attached as Annexure-12



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24.	The project proponent shall undertake green belt development.	<p>Complied.</p> <ul style="list-style-type: none"> ➤ Development of Greenbelt is a regular process in AKPL. ➤ As of now, greenbelt developed in an extent of 213.60 Ha ➤ Maintaining greenbelt of 100 m width along the periphery. ➤ Developed 3.5 Ha of greenbelt near liquid jetty area in phase III along the shoreline boundary. ➤ Maintaining 20-meter width greenbelt around the coal stack yards.
25.	Necessary clearances from all the concerned agencies shall be obtained before initiating the project.	Noted.
26.	Project proponent shall install necessary oil spill mitigation measures in the shipyard. The details of the facilities provided shall be informed to this Ministry within 3 months from the date of receipt of this letter.	<p>Being Complied</p> <ul style="list-style-type: none"> ➤ Oil Spills are being managed as per the approved Oil Spill Contingency Plan. ➤ AKPL has provided Oil Boom, Skimmer and chemicals to attend any accidental oil spills. ➤ Staff was trained to meet Tier-I Oil spills. ➤ As per Disaster Management Plan, Indian Coast Guard will be alerted to coordinate. ➤ Details were furnished to the MoEF&CC Regional Office, Bangalore, vide our letter no. KP/MoEF/PH-III/20 dated 02.02.2010. <p>Copy of Mock drill is attached as Annexure-11.</p>
27.	No hazardous chemicals shall be stored in the Coastal Regulation Zone area.	Noted
28.	The project shall not be commissioned till the requisite water supply and electricity to the project are provided by the PWD / Electricity Department.	Complied.
29.	Specific arrangements for rainwater harvesting shall be made in the project design and the rainwater so harvested shall be optimally utilized.	<p>Complied.</p> <ul style="list-style-type: none"> ➤ Rainwater Harvesting pits of 13 nos. are available within the Port premises. ➤ The availability of water is in the rainy & winter seasons. Percolation is faster due to sandy soil. ➤ The water is being utilized for dust suppression to the extent possible. Photographs to be attached Annexure 5
30.	The facilities to be constructed in the CRZ area as part of this project shall be strictly in conformity with the provisions of the CRZ Notification, 1991 and its amendment. The facilities such as office building and residential buildings which do not require waterfront and	<p>Being complied.</p> <p>All the construction activities are as per regulations including Coastal Regulation Zone Notification 1991 & its amendments.</p>



	foreshore facilities shall not be constructed within the Coastal Regulation Zone area.	
General Conditions		
I.	Adequate provision for infrastructure facilities including water supply, fuel and sanitation must be ensured for construction workers during the construction phase of the project to avoid any damage to the environment	Complied.
II.	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.	Being Complied.
III.	Borrow sites for each quarry sites for road construction material and dump sites must be identified keeping in view the following:	
	a. No excavation or dumping on private property is carried out without written consent of the owner.	No excavation or dumping on private property was carried out.
	b. No excavation or dumping shall be allowed on wetlands, forest areas or other ecologically valuable or sensitive locations.	Complied.
	c. Excavation work shall be done in close consultation with the Soil Conservation and Watershed Development Agencies working in the area, and	Complied during construction. Now port is in operational phase.
	d. Construction spoils including bituminous material and other hazardous materials must not be allowed to contaminate water courses and the dump sites for such materials must be secured so that they shall not leach into the groundwater.	Complied.
IV.	The construction material shall be obtained only from approved quarries. In case new quarries are to be opened, specific approvals from the competent authority shall be obtained in this regard.	Complied.
V.	Adequate precautions shall be taken during transportation of the construction material so that it does not affect the environment adversely.	Complied.
VI.	Full support shall be extended to the officers of this Ministry / Regional Office at Bangalore by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation and other environmental protection activities.	Being Complied.
VII.	Ministry of Environment & Forests or any other competent authority may stipulate any additional conditions or modify the existing ones, if in the interest of environment and the same shall be complied with.	Noted the condition.



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VIII.	The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.	Noted the condition.
IX.	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment and Forests.	Noted the condition.
X.	The project proponents 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 and the date of start of land development work.	Complied. Financial Closure was completed on 16.10.2006. Details were furnished to the MoEF&CC, Regional Office, Bangalore, vide our letter no. KP/MOEF/60 dated 16th Feb, 2007. Approval of the Project by GoAP: 17.09.2004 Start of Land Development June, 2006.
XI.	Andhra Pradesh Pollution Control Board shall display a copy of the Clearance letter at the Regional Office, District Industries Centre and Collector's Office / Tehsildar's Office for 30 days.	Complied. APPCB has displayed the copy of Environmental Clearance at Regional Office, District Industries Centre and Collector's Office / Tehsildar's Office.
XII.	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 1994, including the amendments and rules made thereafter.	Noted the condition.
XIII.	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc., shall be obtained, as applicable by project proponents from the respective competent authorities.	Complied. Statutory clearances are obtained for storage of Diesel from Chief Controller of Explosives (CCE), Fire Department, Civil Aviation Department, and Forest Conservation Act. Copy of approvals are attached as Annexure-13.
XIV.	The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the Andhra Pradesh State Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at http://www.envfor.nic.in The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Bangalore.	Complied. Advertisement was given in Two Local Newspapers viz., Deccan Chronicle dated 22.11.2009 and Andhra Jyothi dated 22.11.2009. A copy of the advertisement was sent to Regional Office, Bangalore of MoEF vide Letter No.KP/MOEF/PH.II/08 dated 18.01.2009.



XV.	Environmental Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.	Noted the condition.
XVI.	Any appeal against this Environmental Clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.	Noted the condition.
XVII.	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions /representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Complied.
XVIII.	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant level namely; SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) 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.	Being complied. Submitting the 6 Monthly Self Certified & NABL Accredited 3rd Party Compliance Reports for the period from April to September & respectively along with Terrestrial & Marine Monitoring reports to MoEF & CC on 20.05.2024. Self-certified Half yearly compliance report for the period of Apr'24 to Sep'24 along with monitoring reports submitted MoEFCC and APPCB on 30.11.2024. AKPL has established display at Zero-point location at Main gate of the Company. Copies of the Acknowledgements are attached as Annexure- 9
XIX.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Being complied. Submitting the 6 Monthly Self Certified & NABL Accredited 3rd Party Compliance Reports for the period from April to September & October to March respectively along with Terrestrial & Marine Monitoring reports to statutory bodies.
XX.	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the Company along with the status of	Being complied. Form - V Environmental Statement submitted to APPCB. Latest submission is on 28.09.2024 for the period 2023-2024.



	compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	Copy Attached as Annexure - 14
Specific Conditions vide MoEF&CC order F.No. 11-62/2009-IA.III (PI) dated 16.03.2016		
I.	Construction activity shall be carried out strictly according to the provision of CRZ notification, 2011. No construction work other than those permitted in coastal Regulation Zone Notification shall be carried out in Coastal regulation Zone area.	Being complied. No construction works other than those permitted in Coastal Regulation Zone Notification is being carried out in CRZ Area.
II.	All the recommendations and conditions specified by AP Coastal Zone Management Authority (APCZMA) vide letter No. 3160/Env/CZMA/2014 dated 14.08.2014 shall be complied with.	Noted the condition & being complied.



P.S. [Signature]

**EC & CRZ Clearance for Expansion of Krishnapatnam Port (Phase – III) at SPSR Nellore District,
Andhra Pradesh vide Order No.10-08/2016-IA-III dated 11.01.2021.
Third-Party Six-Monthly Compliance Report (October, 2024 – March, 2025)**

S.No	Conditions	Compliance
	Special 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 amount 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.	Noted the condition and duly complied with during the implementation of the Project.
ii.	The project proponent shall abide by all the commitments and recommendations made in the Form-II, EIA and EMP report, submissions made during Public Hearing and also that have been made during their presentation to EAC.	Being complied
iii.	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 Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	Being complied
iv.	All the recommendations and conditions specified by the Andhra Pradesh Coastal Zone Management Authority (APCZMA) vide letter 202/CRZ/IND/201930 dated 21.05.2020 shall be complied with.	Noted the condition & being complied. The Compliance of the recommendations and conditions specified by the Andhra Pradesh Coastal Zone Management Authority (APCZMA) vide letter 202/CRZ/IND/201930 dated 21.05.2020 are attached as Annexure 23.
v.	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	Being complied.
vi.	Development of green belt by native species with consultation with state forest department shall be ensured.	Complied <ul style="list-style-type: none"> AKPL is developing a lush Green Belt within the Project with Native Species in a total area of 213.60 Ha. (As on March 2025 Total Green Belt area in Phase – 1, 2 & 3). The Project Layout with the planned Green Belt is attached as Annexure C. As on March 2025, AKPL has successfully developed 213.60 Ha of Green belt along



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S.No	Conditions	Compliance
		<p>port boundary, around coal yards, avenue & median plantations.</p> <ul style="list-style-type: none"> • The Project is maintaining greenbell of 100 m width along the periphery. • The Project has developed a green bell in an area of 3.5 Ha near liquid jelly area in phase III along the shoreline boundary. • The Project is maintaining greenbell of 20-meter width around the coal stack yards. • The Expenditure for maintenance of the Green Bell during the financial Year 2024-2025 is 82.41 Lakhs. • 150 No. of local manpower are being engaged for the Development and Maintenance of the Green Bell in the Project.
vii.	<p>The proposed expansion entails 60 million cum of dredging in soft soil. As proposed, the PP shall utilize 26 million cu m of dredged sand for reclamation of low-lying areas of port, stock pile 2 million cu m on the coast north of north breakwater for long term coastal protection as recommended by NIOT and disposal of balance 32 million cu m of dredged spoil in the identified dredge disposal area of 56 Km² beyond (-) 20 m contour. The impact of dredging on the marine environment should be monitored and necessary measures shall be taken on priority basis if any adverse impact is observed. NIOT will oversee the work as scientific body and continue to monitor its impact/benefits for at least 5 years post project completion. Necessary financial assistance to be provided by project proponent to NIOT. The report of the same to be submitted to regional office of MoEFCC by project proponent.</p>	<ul style="list-style-type: none"> • AKPL has obtained Consent to Establishment (CTE) for the Expansion of the Krishnapatnam Port Project (Phase – III) from APPCB vide Order No. 633/ APPCB/ CFE/RO-NLR/HO/2010 dated 25.02.2021. Copy of the CTE Order is attached as Annexure 16 • The impact of dredging activities has been monitored by NIOT for 5 post completion of the Phase – II of the project. • AKPL appointed NIOT for shoreline stability study, the study was carried out during the period 2021 to 2024 and report as submitted to APPCB, RO Nellore vide letter. no. AKPL/EC/ENV/007/2025-26 dated 09.04.2025. (Copy attached as Annexure 7.
viii.	<p>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 with the help of reputed organization or individuals of national repute having knowledge in the said subject. Necessary financial assistance to be provided by project proponent.</p>	<p>Being complied</p> <ul style="list-style-type: none"> • AKPL carried out study on Comprehensive Biodiversity Assessment, Impact Assessment and Management Plan through M/s. Suganthi Devadason Marine Research Institute (SDMRI), Thoothukudi during the period 2022 to 2023 and submitted the report APPCB and AP state biodiversity board with vide letter No: AKPL/EC/ENV/126/2024-25 dated 09.01.2025. (Copy attached as Annexure 19)



B.S. *[Handwritten Signature]*

S.No	Conditions	Compliance
		<ul style="list-style-type: none"> • In addition, National Centre for Sustainable Coastal Management (NCSCM), Chennai is Monitoring the Land, Air quality, Noise, Water, Marine, Marine sediment parameters and mangroves, ones in four years. • NCSCM carried out the latest study during the period 2022 to 2023 and the report was submitted to APPCB with vide letter no. AKPL/EC/APPCB/125/2024-25 dated 09.01.2025 (Copy attached as Annexure 15) • The Marine monitoring reports are being submitted to APPCB on monthly basis and MoEF&CC on half-yearly basis.
ix.	<p>Continuous online monitoring of air and water covering the total area shall be carried out and the compliance report of the same shall be submitted along with the 6 monthly compliance reports to the regional office of MoEF&CC.</p>	<p>Complied.</p> <p>AKPL was earlier operating Three (3) Nos. of Continuous Ambient Air Quality Monitoring stations and linked to APPCB website. AKPL has now added two additional Continuous Ambient Air Quality Monitoring stations since September 2024, and these are also linked to APPCB website.</p> <p>In addition, AKPL appointed a third-party agency M/s S V Enviro Laboratories, an NABL Accredited Laboratory to conduct Environmental Monitoring i.e., Terrestrial & Marine parameters.</p> <p>The monitoring reports are being submitted to APPCB on monthly basis and MoEF&CC on half-yearly basis. Copies of the latest Submission letters are attached as Annexure 24.</p>
x.	<p>The actions shall be in accordance with proposed landscape planning concepts to minimize major landscape changes. The change in land use pattern shall be limited to the proposed port limits and be carried out in such a way as to ensure proper drainage by providing surface drainage systems including storm water network.</p>	<p>Being complied</p>
xi.	<p>Suitable preventive measures be taken to trap spillage of fuel / engine oil and lubricants from the construction site. Measures should be taken to contain, control and recover the accidental spills of fuel during cargo handling.</p>	<p>Being complied</p> <p>Port has existing Tier-I oil spill response equipment to combat any oil spill and coordinate with Indian Coast Guard to contain, control, and recover the accidental spills of fuel during cargo handling.</p>



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S.No	Conditions	Compliance
xii.	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 the RO, MoEF & CC along with half yearly compliance report.	Complied Environmental Monitoring Plan is prepared in matrix format for the Expansion of the Krishnapatnam Port Phase-III and the same is being implemented at site. (Copy attached as Annexure 20)
xiii.	The company shall draw up and implement Corporate Social Responsibility Plan as per the Company's Act of 2013.	Being complied The CSR Plan is drawn up as per the Company's Act - 2013 (Copy attached as Annexure 4)
xiv.	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. All other activities including pollution control, environmental protection and conservation, R&R, wildlife and forest conservation/protection measures including the NPV, Compensatory Afforestation 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.	Being complied <ul style="list-style-type: none"> • The Public Consultation for Expansion of Krishnapatnam Port Phase-III was exempted as the expansion was proposed to be developed within the existing land area of 6800 Ac. • All the commitments made in the public consultation for Phase-II during 2009 were complied with. • All the activities proposed in the EMP for Phase-II along with the Phase -III EMP including Pollution control measures, Environmental protection and conservation, R&R, Wildlife and forest conservation/protection measures including the NPV, Compensatory Afforestation, etc., are being implemented. PH Minutes attached as Annexure G
STANDARD CONDITIONS :		
Statutory Compliance		
i.	Construction activity shall be carried out strictly according to the provisions of CRZ Notification, 2011 and the State Coastal Zone Management Plan as drawn up by the State Government. No construction works other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	Being complied
ii.	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.	A certificate of adequacy of available power agreements obtained from consent departments. (Copy attached as Annexure 25 B & C)
iii.	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	Complied AKPL has obtained a license from Chief Controller of Explosives to store petroleum class A & B as a retail outlet within the premises of the port.



S.No	Conditions	Compliance
	proponents from the respective competent authorities.	Copy of approvals are attached as Annexure-13.
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. 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 covering upwind and downwind directions.	<p>Being complied.</p> <p>AKPL was earlier operating Three (3) Nos. of Continuous Ambient Air Quality Monitoring stations at the following locations to monitor the parameters viz., PM₁₀, PM_{2.5}, SO₂, NO, NO₂, CO and linked to APPCB website.</p> <ul style="list-style-type: none"> a. CVR Amenities Complex b. Thamminapalnam Village c. Krishnapalnam Village <p>AKPL has now added two additional Continuous Ambient Air Quality Monitoring stations at the following locations since September 2024 to monitor the parameters viz., PM₁₀, PM_{2.5}, and these are also linked to APPCB website.</p> <ul style="list-style-type: none"> a) CAAQMS 4 North side of the station b) CAAQMS 5 South side of the station <ul style="list-style-type: none"> • Environmental Monitoring has been rendered by NABL accredited laboratory along with AAQ monitoring at 7 locations 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.	<p>Being complied.</p> <p>Port has adopted & implementing the following measures for the control of fugilive emissions during handling of bulk & non-bulk cargo and vehicular movement:</p> <ul style="list-style-type: none"> i. Established mechanical conveyor system for handling coal & Iron ore. ii. Provided closed hoods for the conveyor system. iii. Stacker cum re-claimers is being used for loading and unloading the coal. iv. The railway wagons are being loaded mechanically. v. Installed fully mechanized coal handling systems with gantry grab lype ship loaders/unloaders. vi. Provided hooded conveyor belt for cargo transferring directly from ship to the



S.No	Conditions	Compliance
		<p>designated slack yard by means of closed hoppers and transfer lowers.</p> <p>vii. Established closed warehouses for storage of weather sensitive cargoes.</p> <p>viii. The loading and discharge points of the conveyor carrying material are covered with exhaust hoods to prevent the formation of dust clouds.</p> <p>ix. All the conveyor galleries are covered to ensure zero dust emission during cargo transfer.</p> <p>x. Provided water sprinkling system at transfer lowers to arrest the dust spreading into the atmosphere.</p> <p>xi. Provided semi mechanized facilities for truck tarpaulin covering stations to ensuring all the outgoing cargos by trucks are covered with tarpaulin.</p> <p>xii. Ensuring all the outgoing Railway Rakes are covered with Tarpaulin.</p> <p>xiii. Mist Canon systems provided for watering avenue plantations and road wetting on haul roads</p> <p>xiv. Operating Mechanical dust suppression system comprises of 248 canons.</p> <p>xv. Deploying DSS Tankers of Cannon mounted for sprinkling water on haul roads and yards to arrest the dust causing by the vehicular movement</p> <p>xvi. The Cargo stocks/heaps are covered with tarpaulin.</p> <p>xvii. Provided 8 No. tractor mounted hydraulic broom sweeping machines for cleaning the roads and jetty areas.</p> <p>xviii. 3 No of Heavy-Duty Sweeping Machines are being deployed at operational areas and all internal roads.</p> <p>xix. Erected & maintaining wind breaking wall of height 14 mtrs to prevent any dust nuisance towards habitation supported with high density greenbell.</p> <p>xx. Greenbell in an extent of 213.60 Ha Developed & maintaining green bell along the port covering, yards, roads and all operational areas.</p> <p>Photographs are attached in EMP as Annexure 5.</p>
iii.	Shrouding shall be carried out in the work site enclosing the dock/proposed facility area. This	Being complied.



S.No	Conditions	Compliance
	will act as dust curtain as well achieving zero dust discharge from the site. These curtain or shroud will be immensely effective in restricting disturbance from wind in affecting the dry dock operations, preventing waste dispersion, improving working conditions through provision of shade for the workers.	<ul style="list-style-type: none"> • Erected & maintaining wind breaking wall of height 14 mtrs to prevent any dust nuisance towards habitation supported with high density greenbell • Covered the operational area with rows of plantation which are acting as wind barricades. • Ensuring water sprinkling on haul roads. Photographs attached in EMP as Annexure 5
iv.	Dust collectors shall be deployed in all areas where blasting (surface cleaning) and painting operations are to be carried out, supplemented by stacks for effective dispersion.	No blasting activities involved in the Port operations.
v.	The Vessels shall comply the emission norms prescribed from time to time.	Being complied. Please find MARPOL circular in Annexure 26.
vi.	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.	Being Complied. <ul style="list-style-type: none"> i. The Port is being supplied with power grid & Non-conventional source of energy through Power Grid for uninterrupted power supply. (BLYTH Wind Park Pvt. Ltd., Ananthapur Dist., Andhra Pradesh) ii. The DG Sets are being operated as back up for emergency lighting & safety during power breakdowns. iii. Retrofitting certification was carried-out for the DG Sets during 2022 (Copy attached as Annexure 27) iv. The emissions from the DG Sets are being monitored ones in 6 months through a 3rd Party NABL Accredited Laboratory and the analysis reports are being submitted the Authorities.
vii.	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	Complied AKPL appointed M/s. FP Project Management to study and prepare a Traffic Management and Decongestion Plan. Report submitted to the R & B Dept and NUDA vide letter no. AKPL/EC/EHS/032 dated 03.07.2024. Copy of the Acknowledgement is attached as Annexure 21.



S.No	Conditions	Compliance
	implementation of components of the plan which involve the participation of these departments.	
Water quality monitoring and preservation:		
i.	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.	Being complied No creeks or rivers are blocked in the port premises and the Project is ensuring free flow of water.
ii.	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality. Silt curtains shall be used to contain the spreading of suspended sediment during dredging within the dredging area.	Being complied
iii.	No ships docking at the proposed project site will discharge its on-board waste water untreated in to the estuary / channel. All such wastewater load will be diverted to the proposed Effluent Treatment Plant of the project site.	Being complied The ships are not allowed to discharge on board wastewater into the Sea.
iv.	Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handle.	Being complied. Port has existing Tier-I oil spill response equipment to combat any oil spill supported by Indian Coast Guard to contain, control and recover the oil spill. The Last Oil Spill Preparedness & Response (OPR) drill was conducted at the port on 19.02.2025. OPR Mock drill being conducted once in every 6 months. Copy attached as Annexure-11.
v.	The project proponents will draw up and implement a plan for the management of temperature differences between intake waters and discharge waters.	Not Applicable There is no intake and discharge of water involved in the Port operations.
vi.	Spillage of fuel / engine oil and lubricants from the construction site are a source of organic pollution which impacts marine life. This shall be prevented by suitable precautions and also by providing necessary mechanisms to trap the spillage.	Complied <ul style="list-style-type: none"> • Oil Spills are being managed as per the approved Oil Spill Contingency Plan. • AKPL has provided Oil Boom, Skimmer and chemicals to attend any accidental oil spills. • The Operating Staff are trained to handle with Tier-I Oil spills. Training and



S.No	Conditions	Compliance																					
		<p>periodical mock drills are being organized for the work force at workplace.</p> <ul style="list-style-type: none"> As per Disaster Management Plan, Indian Coast Guard will be alerted to coordinate in case of any oil spills Details were furnished to the MoEF&CC Regional Office, Bangalore, vide our letter no. KP/MoEF/PH-III/20 dated 02.02.2010. The last OPR drill was conducted at the port on 19.02.2025. Copy attached as Annexure-11. 																					
vii.	Total freshwater 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.	Complied with																					
viii.	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.	<ul style="list-style-type: none"> AKPL has been operating 2 no. of Sewage Treatment Plants of 1 X 500 KLD STP at CVR Amenities Complex & 1 X 40KLD STP Admin. Building. Treated wastewater from STP is being utilized for the green belt within port premises. Septic tank and soak pit systems are being followed at offices and isolated buildings which are far from STPs. The treated water details for the last six months are as below: <table border="1"> <thead> <tr> <th>S.No</th> <th>Month</th> <th>Treated Water (KL)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>OCT'24</td> <td>5533</td> </tr> <tr> <td>2</td> <td>NOV'24</td> <td>4971</td> </tr> <tr> <td>3</td> <td>DEC'24</td> <td>4632</td> </tr> <tr> <td>4</td> <td>JAN'25</td> <td>4271</td> </tr> <tr> <td>5</td> <td>FEB'25</td> <td>4077</td> </tr> <tr> <td>6</td> <td>MAR'25</td> <td>4764</td> </tr> </tbody> </table>	S.No	Month	Treated Water (KL)	1	OCT'24	5533	2	NOV'24	4971	3	DEC'24	4632	4	JAN'25	4271	5	FEB'25	4077	6	MAR'25	4764
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ix.	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.	<p>AKPL is not discharging any treated effluent/ untreated effluent into the public sewer.</p> <p>The treated waste water is being utilized for greenbelt development.</p>																					
x.	No diversion of the natural course of the river shall be made without prior permission from the Ministry of Water resources.	Being complied																					
xi.	All the erosion control measures shall be taken at waterfront facilities. Earth protection work shall	Being complied																					



S.No	Conditions	Compliance
	be carried out to avoid erosion of soil from the shoreline/boundary line from the land area into the marine water body.	
Noise Monitoring and prevention		
i.	The 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.	<p>Being complied</p> <p>AKPL appointed M/s S V Enviro Labs a third party NABL Accredited Laboratory to monitor Noise quality at the following locations:</p> <ol style="list-style-type: none"> 1. Zero Point 2. Thamminapatnam 3. CVR Building 4. Gopalapuram 5. Chalivendram 6. Krishnapatnam 7. Krishnapatnam Village near Light House <p>AKPL is submitting the monitoring reports to APPCB on monthly basis and to MoEFCC on Half yearly basis.</p>
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 equipment	Being complied
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.	Being complied
iv.	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during daytime and 70 dB(A) during night time.	Being complied.
Energy Conservation measures		
i.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, streetlights parking around project area and maintain the same regularly	<p>Being complied</p> <p>The Port has a tie up with M/s BLYTH Wind Park Pvt. Ltd., Ananthapur Dist., Andhra Pradesh for supply of non-conventional energy through Power Grid for uninterrupted power supply.</p> <p>The Port has installed Solar Panels on the poles erected for installing CCTV cameras within the Port premises.</p> <p>Copy attached as Annexure 5.</p>



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S.No	Conditions	Compliance
ii.	Provide LED lights in their offices and port areas.	Being complied All the office buildings and other operation buildings within the Port Premises are provided with LED lights. Copy attached as Annexure 5 .
Waste Management		
i.	Dredged material shall be disposed of safely in the designated areas.	Being complied.
ii.	Shoreline should not be disturbed due to dumping. Periodical study on shoreline changes shall be conducted and mitigation carried out, if necessary. The details shall be submitted along with the six-monthly monitoring reports.	Being complied <ul style="list-style-type: none"> AKPL appointed NIOT for shore line stability study, the study was carried out during the period 2021 to 2024 and report as submitted to APPCB, RO Nellore vide letter. no. AKPL/EC/ENV/007/2025-26 dated 09.04.2025. (Copy attached as Annexure 7)
iii.	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.	Being complied Two STP's of 500 KLD and 40 KLD are provided within the port Premises for treatment of domestic wastewater generated in Port. Solid Waste being segregated and shredded by using shredder and baler machine and being disposed to APPCB authorized vendor.
iv.	The solid wastes shall be managed and disposed as per the norms of the Solid Waste Management Rules, 2016.	Being complied.
v.	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.	Being complied.
vi.	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	Being complied Solid waste being disposed to APPCB Authorized recyclers.
vii.	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.	Being complied The CFL's and TFL's are collected and stored properly in the Covered Shed. The same are disposed to Approved Agency
viii.	Oil spill contingency plan shall be prepared and part of DMP to tackle emergencies. The equipment and recovery of oil from a spill would be assessed. Guidelines given in MARPOL and	Being complied <ul style="list-style-type: none"> Port has been maintaining Oil Spill Contingency Plan



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S.No	Conditions	Compliance
	Shipping Acts for oil spill management would be followed. Mechanism for integration of terminals oil contingency plan with the overall area contingency plan under the co-ordination of Coast should be covered.	<ul style="list-style-type: none"> Port has Tier-I Oil Spill response equipment for recovery of oil spill in coordination with Indian Coast Guard, Krishnapatnam and follows the guidelines given in MARPOL and Shipping Acts. The last OPR drill was conducted at the port on 19.02.2025. Copy attached as Annexure-11.
Greenbelt		
i.	Green belt shall be developed in area as provided in project details with a native tree species in accordance with CPCB guidelines.	<p>Complied.</p> <ul style="list-style-type: none"> AKPL is developing a lush Green Belt within the Project with Native Species in a total area of -213.60 Ha. (Total Green Belt area in Phase - 1, 2 & 3). The Project Layout with the planned Green Belt is attached as Annexure C. As on March 2025, AKPL has successfully developed 213.60 Ha of Green belt along port boundary, around coal yards, avenue & median plantations. The total plantation for the FY 2024-25 from Oct'24 to Mar'25 is 93107 saplings. The Expenditure for maintenance of the Green Belt during the financial Year 2024-2025 is 82.41 Lakhs. 150 No. of Local Manpower being engaged for the Development and Maintenance of the Green Belt in the Project.
ii.	Top soil shall be separately stored and used in the development of green belt.	<p>Being complied.</p> <p>AKPL is using coco peat, red soil and vermi compost for enriching the top soil.</p>
Marine Ecology		
i.	The dredging schedule shall be so planned that the turbidity developed is dispersed soon enough to prevent any stress on the fish population.	Being complied
ii.	While carrying out dredging, an independent monitoring shall be carried out through a Government Agency/Institute to assess the impact and necessary measures shall be taken on priority basis if any adverse impact is observed.	<p>Being complied</p> <p>AKPL has appointed Government agency of Annamalai university team to assess the impact and necessary measures. Pre, during & post dredging monitoring samples collected. Data compilation is under progress.</p> <p>The final report is yet to be received.</p>
iii.	A detailed marine biodiversity management plan shall be prepared through the NIO or any	Being complied



S.No	Conditions	Compliance
	other institute of repute on marine, brackish water authority. The report shall be based on a study of the impact of the project activities on the intertidal biotopes, corals and coral communities, molluscs, sea grasses, sea weeds, sub- tidal habitats, fishes, other marine and aquatic micro, macro and mega flora and fauna including benthos, plankton, turtles, birds etc. as also the productivity. The data collection and impact assessment shall be as per standards survey methods and include underwater photography.	Comprehensive Marine Biodiversity Impact Assessment and management Plan was prepared by SDMRI and the report was submitted to APPCB, Andhra Pradesh State biodiversity Board and APCZMA vide AKPL/EC/ENV/126/2024-25 dated 09.01.2025, AKPL/EC/ENV/127/2024-25 dated 09.01.2025 respectively. Copy attached as Annexure -19
iv.	Marine ecology shall be monitored regularly also in terms of sea weeds, sea grasses, mudflats, sand dunes, fisheries, echinoderms, shrimps, turtles, corals, coastal vegetation, mangroves and other marine biodiversity components including all micro, macro and mega floral and faunal components of marine biodiversity.	Being complied AKPL Appointed a third party NABL Accredited Laboratory for Monitoring the Terrestrial & Marine parameters viz., Marine water quality, Marine sediment quality, Surface Water Quality and ground water quality at regular intervals Copies of the Analysis reports for the Period from Oct'24 to Mar'25 are attached as Annexure 30.
v.	The project proponent shall ensure that water traffic does not impact the aquatic wildlife sanctuaries that fall along the stretch of the river.	Being complied. <ul style="list-style-type: none"> There are no aquatic wildlife sanctuaries in the vicinity of the Port. AKPL has been ensuring that the water traffic does not impact the marine ecosystem for port operations.
Public hearing and human health issues		
i.	The workspace shall be maintained as per international standards for occupational health and safety with provision of fresh air respirators, blowers, and fans to prevent any accumulation and inhalation of undesirable levels of pollutants including VOCs.	Being complied. AKPL is providing and maintaining the Work Space to match the standards of Occupational Health and Safety.
ii	Workers shall be strictly enforced to wear personal protective equipment's 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.	Being complied. AKPL strictly enforcing all the workers, employees, stakeholders to wear PPEs at operational areas.
iii	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	Being complied. <ul style="list-style-type: none"> AKPL is providing work related Safety Training to all its workers and employees.



S.No	Conditions	Compliance
	implemented and monitored by the concerned officials to prevent the occurrence of untoward incidents/ accidents.	<ul style="list-style-type: none"> • All the employees, workers & contractors are given daily toolbox talks, monthly review meetings with employees engaged in various activities of the Port. • Port implemented and monitoring all standard safety and occupational hazard measures to prevent untoward incidents.
iv.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	<p>Being complied.</p> <ul style="list-style-type: none"> ➤ DMP covering emergency evacuation mechanisms etc., to deal with natural disasters was prepared and submitted to the Ministry vide letter No. KP/MOEF/275 dated 11.07.2008 same as regularly updated. ➤ Latest DMP update copy submitted to District Magistrate office on 30.08.2024. ➤ The updated copy of the DMP was submitted to office of the District Magistrate, SPSR Nellore District office vide letter AKPL/CORPORATE AFFAIRS/DMP/071/2024-25 - dated 30.08.2024. Copy attached as Annexure 3
v.	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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Being complied.
vi.	Occupational health surveillance of the workers shall be done on a regular basis.	Being complied.
Environmental 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	<p>Being complied.</p> <p>AKPL has a laid down Environment Policy duly approved by the board of directors.</p> <p>Copy attached as Annexure 22.</p>



S.No	Conditions	Compliance
	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.	Being complied. AKPL has formed Environment Cell Headed by HOD & supporting staff at port level. Copy attached as Annexure 28. AKPL has also formed Environment Cell Headed by Vice president at Head Quarter level. Copy attached as Annexure 28A
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.	Being complied The Funds & Expenditure earmarked for environment protection measures are being reported in Form - V Environmental Statement and submitting the same to APPCB & MoEF&CC. Latest submission is on 28.09.2024 for the period 2023-2024. The Expenditure incurred during the period April, 2023 to March,2024 are attached as Annexure 6.
iv.	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Being complied. AKPL has submitted the 6 Monthly Self Certified Compliance report for the Period April, 2024 to September, 2024 to MoEF&CC on 30.11.2024. AKPL has now submitting the 6 Monthly Third party NABET Accredited Consultants report for the Period October, 2024 to March, 2025 to MoEF&CC.
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.	Complied. Advertisement was published in District Newspapers namely "Varha" in local language & "The New Indian Express" in English language dated 21.01.2021. Copy attached as Annexure-18.
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	Complied. A copy of the Environmental clearance is submitted to the District Collector vide our letter



S.No	Conditions	Compliance
	offices of the Government who in turn has to display the same for 30 days from the date of receipt.	dated 03.02.2021 and local Panchayats vide letter dated 01.02.2021. Copy attached as Annexure-17
iii.	The project proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Complied. Self-certified Half yearly compliance report for the period of Apr'24 to Sep'24 along with monitoring reports were submitted MoEFCC and APPCB on 30.11.2024
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.	Complied. Submitting the 6 Monthly Self Certified Compliance Reports for the period from April 24 to September 24 respectively along with Terrestrial & Marine Monitoring reports submitted on 30.11.2024 to MoEF & CC and APPCB. Copies of the acknowledgments are attached as Annexure-9
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.	Being complied Form - V Environmental Statement for the period 2023-2024 was submitted to APPCB & MoEF& CC vide letter AKPL/EHS/APPCB/FORM 5/082/2024 dated 26.09.2024. Copy attached as Annexure 6. Latest submission is on 28.09.2024 for the period 2023-2024
vi.	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.	Complied. Port has installed digital display boards at the main gate indicating the AAQ concentrations. Photographs attached as Annexure 29.
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.	Phase III development is under progress. Details of Financial Closure for the Phase - III project to be furnished AKPL obtained CTE from APPCB for Order No. 633/APPCB/CFE/RO- NLR/HO/2010 dated 25.02.2021 Copy attached as Annexure-16



S.No	Conditions	Compliance
viii.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Noted the condition.
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.	Being Complied.
x.	No further expansion or modifications in the port area shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Noted the condition and will be complied with.
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.	Noted the condition and will be complied with.
xii.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted the condition.
xiii.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted the condition.
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.	Noted the condition and will be complied with.
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.	Noted the condition and will be complied with.



35 *Chaitanya*

ANNEXURES





GOVERNMENT OF ANDHRA PRADESH
ABSTRACT

Development of Krishnapatnam Port in Nellore District Rehabilitation & Resettlement Package - Affected Zone covered under the project - Implementation of R&R Package - Administrative Sanction - Accorded - Orders - Issued.

TRANSPORT, ROADS AND BUILDINGS (PORTS-I) DEPARTMENT

G.O.Ms.No.250

Dated: 31-8-2007.

Read the following:-

1. G.O.Ms.No.68, Irrigation & CAD (Project Wing-LA-IV-R&R) Department, dated:8-4-2005.
2. From the Joint Collector, Nellore, Letter No. Rc.GS.5864/ 2006, dated: 17.2.2007.
3. From M/s KPCL, Letter dated 14.3.2007.
4. From the Collector, Nellore, Letter No. Rc.GS.5864/ 2006, dated: 30-6-2007.
5. Govt.Lr.No.2736/P.I(1)/2007, TR&B(Ports) Dept.dt.9-7-2007.
6. From M/s KPCL, Lr.No.KP/TR&B/287, dt. 11-7-2007
7. G.O.Ms.No.243, TR&B(Ports) Dept., dt.25-8-2007.

-000-

ORDER:

The District Collector, Nellore has reported that the R&R project report for implementation has been prepared in accordance with the guidelines issued vide GO Ms No.68, Irrgn. & CAD (PW) Department, dated 8.4.2005 and that the villages covered under the Project are 1) Basin Ramalingapuram, Adalaprabhakar Reddy Nagar Colony, Padarthipalem H/o Krishnapatnam (V) of Muthukur (M), 2) Midderevu, H/o Tamminaplanam of Chillakur Mandal are the habitation that are going to be affected due to the development of Krishnapatnam Port.

2. A suitable land for Rehabilitation of the displaced families has been identified in Muthukur village located at a distance of about 4 Kms from the area from which the families are getting displaced. The Collector has stated that the tentative requirement of fund for R&R as per the guidelines prescribed in the policy is Rs.25,85,00,000/- which may vary after a detailed survey.

3. M/s KPCL in their Letter third read above, have reported that various works relating to development of Krishnapatnam Port are in brisk progress including construction of Berths, Reclamation, North & South Break Waters, etc. and that the commercial operations are scheduled to commence from March / June 2008. They have also stated that under Phase-I Dredging and other important construction works are to be started immediately by which activity the four villages will be affected and hence requested the Government for early implementation of R&R package to enable shifting of these villages.

(P/O)

4. M/s KPCL have come forward with a proposal to meet the entire expenditure towards R&R initially, reimbursable by Government, in view of urgency. Also they have stated that they are taking up certain constructions like Hospital and School etc, on their own. They have also requested that the construction works of R&R package may be entrusted to M/s KPCL. (CVR group) to expeditiously complete the work keeping in view the Company's expertise and also due to fact that agencies like Housing Board are busy engaged in equally important assignments. They have also suggested that a Monitoring Officer from Government of the rank of Superintending Engineer / Executive Engineer be nominated to oversee the progress and quality of work on day to day basis.

5. The Collector in his letter 4th read above, has reported that the number of displaced families would be 450 and number of affected families would be 1190. The requirement of funds for R&R package put forth by the Collector is Rs.25.85 crores approximately and the Methodology and procedure will be adopted as per the guidelines issued in R&R policy 2005 issued vide G.O.Ms.No.68, Irrigation & CAD (Project Wing-LA-IV-R&R) Department, dated:8-4-2005 and the instructions issued by the Government from time to time depending upon the release of budget for implementation of R&R package.

6. Government after careful examination of the matter hereby accord administrative sanction for Rs.25,85,00,000/- duly accepting the proposal of M/s Krishnapatnam Port Company Ltd. for incurring expenditure towards R&R package initially which is reimbursable by Government without interest in three equal annual installments commencing from the date of remittance of the full amount to the Government.

7. Government also hereby order that the Civil Works relating to R&R package shall be executed by M/s KPCL (CVR group) Company as proposed by M/s KPCL in the interest of the Project. The Collector shall appoint a Monitoring Officer at the level of Superintending Engineer/Executive Engineer to monitor the progress as well the quality of works being executed by M/s CVR Group on day to day basis and report to the Collector.

8. The District Collector, Nellore shall accordingly take necessary action in the matter.

9. This order issues with the concurrence of Finance Department vide their U.O.No.1974-E/864/A2/Expr.PWD/07, dt.24-7-2007.

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF ANDHRA PRADESH)

L.V.SUBRAHMANYAM
PRL SECRETARY TO GOVERNMENT

To
The Collector & District Magistrate, Nellore.
The Joint Collector & Administrator (R&R), Nellore.
✓ The Chairman, M/s Krishnapatnam Port Ltd., Hyderabad.
The Director of Ports, Kakinada.
The Prl. Accountant General, A.P., Hyderabad.
The Director of Treasuries and Accounts, A.P., Hyderabad.
Copy to Finance (Ex.PW) Department.
Sf/Sc

// forwarded by order //

P. N. Murthy
SECTION OFFICER
H



GOVERNMENT OF ANDHRA PRADESH
TRANSPORT, ROADS AND BUILDINGS (PORTS-1) DEPARTMENT

Letter No.2736/P.I(1)/2007.

Dated:31-8-2007.

From
The Special Secretary to Government,
TR&B Department,
A.P.Secretariat,
Hyderabad.

To
The Director,
M/s Krishnapatnam Port Company Ltd.
Hyderabad.

Sir,

Sub:- Development of Krishnapatnam Port in Nellore District -
Implementation of R&R Package -Reg.

Ref:- 1.From M/s KPCL Lr.dt.14-3-2007

2.G.O.Ms.No.250, TR&B(Ports) Dept.,dt.31-8-2007.

-000-

I am to inform that in the G.O.cited, Government have issued orders according administrative sanction for Rs.25,85,00,000/- duly accepting the proposal of M/s Krishnapatnam Port Company Ltd. for incurring expenditure towards R&R package initially which is reimbursable by Government without interest in three equal annual installments commencing from the date of remittance of the full amount with the Government.

You are therefore, requested to pay the amount to the Government to facilitate early completion of R&R in connection with the development of Krishnapatnam Port.

Yours faithfully,

for SPL.SECRETARY TO GOVERNMENT

Copy to:

The Collector & District Magistrate, Nellore.

The Joint Collector, Nellore.

The Director of Ports, Kakinada

GOVERNMENT OF ANDHRA PRADESH
ROADS & BUILDINGS DEPARTMENT

From
Srl V.Surya Rao, M.E., N.I.E.,
Executive Engineer. (R&B)
Nellore Division, Nellore.

To
The Chairman,
Krishnapatnam Port Company Ltd.,
HYDERABAD.

Tr.No.182/K.P.Port/ATO/04 Dt.22-7-05.

Sir,

Sub:- Providing road connectivity to Mega Projects of Ports & Air Ports by Govt. - Road connectivity from Venkatachalam to Krishnapatnam Port - Alignment plans of ~~plans~~ proposed rail cum road corridor - Req. - Reg.

Ref:- G.O.Ms.No.166T(R&B)Ports Dept. dt.18-11-04.

-x-

It is to inform that, the Government have accorded administrative sanction for the work of "Forming of two-lane road from Venkatachalam to Krishnapatnam Port from km.0/0 to 23/325 with provision for expansion of road to 6 lane in future" for an amount of Rs.29.02 crores in G.O.Ms.No.166 T (R&B) Ports Department dt.18-11-04. The Chief Engineer (R&B) Roads, Hyderabad in fax Memo.No.20051/TA3/AEE2/05 dt.21-6-05 has given instructions to submit detailed estimates for the above work duly conducting the detailed survey.

In this connection, it is also to inform that, the Government of Andhra Pradesh has handed over ^{Krishnapatnam port in Nellore} the Krishnapatnam Port Company Ltd., Hyderabad under B.O.S.T. Scheme in G.O.Ms.No.48 T (R&B) Ports Department dt.9-3-96. The M/s.Krishnapatnam Port Company Ltd., Hyderabad has proposed to form a rail cum road corridor from Venkatachalam to Krishnapatnam. For this purpose, 70.00 Mts. width of land is to be acquired along the proposed rail cum road corridor and to form a two lane road. As per Memorandum of understandings entered with M/s.Krishnapatnam Port Company Limited, Government of Andhra Pradesh has to acquire land for a width of 70.00Mts.,

In view of the above facts, for preparing a detailed estimate of the road, railway alignment is to be finalised. Hence, I request you to please depute the concerned staff along with the alignment plans of proposed rail cum road corridor indicating the survey numbers and village combined plan of each village through which the alignment passes at an early date so as to conduct detailed survey for preparation of detailed estimates to form two-lane road.

Yours faithfully,

22.7.05
EXECUTIVE ENGINEER (R&B)
NELLORE

Copy submitted to the Superintending Engineer (R&B)Nellore for favour of information and taking necessary action,

Copy submitted to the Chief Engineer (R&B)Roads, Hyderabad for favour of information with reference to the Fax Memo.No.20051/TA3/AEE2/2005 dt.21-6-05.

Copy submitted to the Director (R) Dept. of Lighthouses & Lighting Ships, Kakinada for information.

Copy to D.E.E. (R&B)Nellore with request to contact the port authority in the matter.

o/c



Ports and Logistics

Lr. No. AKPL/CORPORATE AFFAIRS/DMP/071-2024-25

30 AUGUST 2024

To

The Collector & District Magistrate,
SPSR Nellore District.

Sir,

Sub: Submission of Revised Disaster Management Plan of Adani Krishnapatnam Port Ltd., - Regarding.

In line with our regular practice of updating our Disaster Management Plan (DMP) in order to make Adani Krishnapatnam Port Limited Disaster resilient, achieve substantial disaster risk reduction significantly decrease the losses of the life, livelihoods assets - economic, physical, social, and environmental - by maximizing the ability to cope with disasters at all levels of administration as well as among departments, we herewith submit the revised DMP for your kind perusal.

Sincerely yours,

For ADANI KRISHNAPATNAM PORT LIMITED.,

K. M. RAM,

HEAD - CORPORATE AFFAIRS.

Received by collector. Sir 'cc'

తేదీ: 31/8/24
వహి నవోదయము
విజ్ఞాన కలెక్టరు వారి గౌరవ... పుచ్చ
శ్రీ పొట్టి శ్రీరాములు

Adani Krishnapatnam Port Ltd
PO Bag No 1
Muthukur A. andal
SPSR Nellore 524 344
Andhra Pradesh India
CIN: U45203GJ1996PLC128239

Tel: +91 861 237 7999
Fax: +91 861 237 7046
www.adaniports.com

Registered Office: Adani Corporate House, Shantigram, Near Vaishno Devi Circle, S G Highway, Khodiyar, Ahmedabad 382 421, Gujarat, India

DISASTER MANAGEMENT PLAN



	Prepared by:	Reviewed by:	Reviewed by:	Reviewed by:	Verified by:	Approved by:
Signature						
Name	Capt. Bibhupada Sahoo	Major. Venkatesh Bhaskar	Mr. G. Venu Gopal Reddy	Capt Rajat Garg	Mr. Rajan Babu	Mr. G. J Rao
Designation	HOS Marine	Head Security	Associate GM - EHS	HOD -Marine	COO	CEO
Date	20/08/2024	20/08/2024	20/08/2024	20/08/2024	20/08/2024	20/08/2024

Rec by collector's cc)
 తది : 20/08/2024.....
 తపాల సహాయకులు
 జిల్లా కలెక్టరు వారి కార్యాలయము
 శ్రీ పొద్ది శ్రీరాములు నెల్లూరు జిల్లా

ADANI FOUNDATION - KRISHNAPATNAM (BUDGET AND EXPENDITURE)											
S. No.	Verticals	2020-21		2021-22		2022-23		2023-24		2024-25	
		Budget	Expenditure	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
1	Education	988.10	322.87	147.46	135.46	106.98	79.22	29.60	65.80	86.92	86.92
2	Community Health	381.01	154.61	529.80	146.17	430.68	257.85	192.83	96.97	67.10	67.10
3	Sustainable Livelihood Development	24.03	12.92	169.02	146.04	91.63	53.49	87.17	32.85	114.54	114.54
4	Community Infra Development / Community Development	100.00	-	20.67	3.96	65.04	61.44	44.57	151.83	87.67	87.67
5	Climate Action	-	-	-	-	-	-	1,686.38	1,527.62	256.77	256.77
6	General Administration	91.50	48.60	56.83	27.74	50.44	49.09	65.84	59.22	61.32	61.32
7	Previous Liabilities	-	-	-	-	190.00	2.31	-	-	-	-
	Total	1,584.64	539.00	923.78	459.37	934.77	503.40	2,106.39	1,934.29	674.32	674.32

Photographical Evidence




Health Awareness Camps:

		
Health Camp at Chalivendram	Health Camp at Krishnapatnam	Health Camp at Gummalladibba

 <p>నెల్లూరు జిల్లా వార్డులు, మేనూస్కోట్, డిసెంబర్ 2024 way2news way2.com/5699</p> <p>కృష్ణపట్నంలో ఉచిత వైద్య సేవలు ముత్తుకూరు మండలం కృష్ణపట్నం గ్రామ పంచాయతీలో అంగన్వాడీ కేంద్రం విద్యార్థులకు సామవారం అదానీ ఫౌండేషన్ ఉచిత వైద్య సేవలు అందించింది. ఈ కార్యక్రమాన్ని అదానీ కృష్ణపట్నం ఫాస్ట్ లిమిటెడ్ కార్పొరేట్ సంస్థ సామాజిక బాధ్యతలో భాగంగా ఆర్కాట్పాలెంలోని అంగన్వాడీ కేంద్రంలో చిన్నారులతో పాటు, తల్లిదండ్రులకు ఆరోగ్య పరీక్షలు నిర్వహించారు. ఉచితంగా మందులు అందజేశారు.</p> <p>07:53 am, 2024, Jan 2024</p>		
<p align="center">Health Camp at Anganwadi Centre Arcotpalem</p>	<p align="center">General Health Camp at Adani Chikistalayam</p>	<p align="center">Health Awareness Programme at AVMK</p>

Education:



<p align="center">Inauguration programme EM Anganwadi Centre at Arkatpalem</p>	<p align="center">Independence Day Programme EM Anganwadi Centre at Arkatpalem</p>	<p align="center">Parents Meeting ZP HS – Krishnapatnam</p>
		
<p align="center">ULIC Centre – Doruvulapalem</p>	<p align="center">AEEC – English Class / Communication skills at ZP HS Krishnapatnam</p>	<p align="center">CEO Sir visit at ZP HS Krishnapatnam</p>

Sustainable Livelihoods:

		<p align="center">అదానీ ఫౌండేషన్ సి ఈ ఓ కృష్ణపట్నం సందర్శన</p> 
<p align="center">Women Group Training at R & R Colony</p>	<p align="center">CEO Sir, AKPL and CEO Sir, AF Interaction with SLD Programmes</p>	



FPC Board Directors and Farmers Meeting



Training on Livelihood activities



R/O Filter Water at Gummalladibba



R/O Filter Water at Gummalladibba



Sports Activities



R/O Filter Water at R & R Colony, Muthukur



Interaction with Youth



Girls Cricket Match at ZP HS Krishnaaptnam

Sanitation Program:



ENVIRONMENTAL MANAGEMENT PLAN



Adani Krishnapatnam Port Limited

Muthukur (PO & Mandal)

Nellore District.

Andhra Pradesh

I. Introduction

The port has its historical back ground. When Sri Krishnadevaraya, the Vijayanagar Emperor, used to operate the port, thus the name was given to it as Krishnapatnam Port & now the name has been changed to Adani Krishnapatnam Port Limited (AKPL).

AKPL, a private port operator located on the East Coast of India, an all weather world class deep water port of International standards and capable of handling Cape Size vessels round the clock throughout the year. The port caters to land locked hinterland of South India with multimodal connectivity. Seamless connectivity by road and rail with very close proximity to National Highway 16 and National Rail Network (Chennai – Kolkata Main Line).

AKPL has got State of Art Infrastructure, Mechanized Handling Systems and dedicated storage yards which provides clean and contamination free handling facilities for bulk and break bulk cargo.

AKPL is AEO Certified Port and has Customs EDI Connectivity with Customs Office headed by Joint Commissioner which is located within the port for faster custom clearance and quick assessment of cargo and containers.

AKPL located at $14^{\circ} 15'10''$ N Latitude and $80^{\circ} 08'05''$ E Longitude in the state of Andhra Pradesh, SPSR Nellore District, Muthukur along east coast of India about 180 km to north of Chennai Port. AKPL has easy access to the hinterlands in close proximity covering Andhra Pradesh, Karnataka and North Tamil Nadu by road, rail and air. It has become the largest automated port in the South Asia.



Considering the topographical & atmospheric conditions, AKPL is adopting and implementing the required environment measures as per the statutory requirements to prevent the dust pollution and

to ensure the pollution parameters are within the permissible limits stipulated by statutory departments.

We are allocating & spending of huge amounts reveals the commitment of the Management commitment & dedication towards Environment Sustainability & mitigation measures.

Terrestrial Monitoring

S.No	Parameter	Frequency of Monitoring	Locations & No. of samples
1.	Air Monitoring 12 Parameters: PM10, PM2.5, SO2, NO2, NH3, Ozone (O3), Lead (Pb), Carbon Monoxide, Benzene, Benzo(a)pyrene- (BaP) Arsenic (As), Nickel (Ni)	Monthly Once - 24 Hours basis	7 Locations (i) CAAQMS station 1 – at Amenities Complex (ii) CAAQMS station 2 – at Thamminapatnam Village (South Port) (iii) CAAQMS station 3 - at Krishnapatnam Village (iv) Gopalapuram Village (v) Chalivendram Village (vi) Port Main Gate (“O” Point) (vii) New Light House
2.	Noise Levels covering day and night noise levels in dB (A)	Monthly-24 Hours basis	7 Locations I Krishnapatnam Village II Gopalapuram Village III Chalivendram Village IV Port Main Gate (“O” Point) V Amenities Complex VI New Light House VII Thamminapatnam Village (South Port)
3.	Sewage Treatment Plant Inlet and Outlet 6 Parameters: pH, Total Suspended Solids, Total Dissolved Solids, Oil & Grease, COD, BOD.	Monthly once	2 Locations STP (Outlet) 500 KLD-1 unit 40 KLD-1 unit

4.	Ground Water Quality Monitoring	Half Yearly	Port surrounding Site South Side of the Port Gopalapuram Village Krishnapatnam Village
5.	Soil Sample Collection	Half yearly	1. Storage area towards west 2. Buckingham Canal
6	DG Stack Emissions Monitoring	Half Yearly	As per CTO.

Marine Monitoring

S. No.	Parameter	Frequency of Monitoring	Location & No. of Samples
1.	<p>Marine Water monitoring (Low Tide and High Tide)</p> <p>Physical Analysis: pH, Temperature, Salinity, Density, TDS, TSS & Turbidity</p> <p>Chemical Analysis: Potassium, COD, BOD, Oil & Grease, DO, Nitrates, Nitrites, Ammonia, Phosphates, Chlorides, Sodium, Sulphates, Silica, Reactive Silica, Total Phosphorus, Total Nitrogen</p> <p>Heavy Metals: Lead, Cadmium, Copper, Zinc</p> <p>Biological Analysis:</p> <ul style="list-style-type: none"> i. Primary Productivity ii. Chlorophyll iii. Phytoplankton iv. Numerical Abundance v. Diversity vi. Zooplankton vii. Diversity iii. Biomass ix. Coliforms x. Fecal coliforms 	Weekly Once every month/monthly once	<p>4 Locations</p> <ul style="list-style-type: none"> 1. Port entrance 2. Turning circle 3. Coal berth 4. Reclamation area <p>2 locations</p> <ul style="list-style-type: none"> 1. Buckingham canal (creek) 2. Kandhalerru (creek)
2.	<p>Marine Sediment:</p> <p>Physical: Sediment composition, Silt + Clay, Sand, Org matter, pH</p> <p>Chemical: Nitrogen, Phosphorus,</p>	Weekly once every month	<p>4 Locations</p> <ul style="list-style-type: none"> 1. Port Entrance – Approach channel 2. Turning circle

S. No.	Parameter	Frequency of Monitoring	Location & No. of Samples
	Potassium, Sodium, Biological, Benthic Communities, MacroBenthos, Epifauna numerical abundance, Infauna numerical abundance Heavy Metals: Lead, Cadmium, Copper, Zinc.		3. Near to Coal berths 4. Reclamation
3.	Marine Water Turbidity Monitoring Turbidity, Total Dissolved Solids and Total Suspended Solids in low tide, high tide and medium tide	Weekly once every month	4 Location 1. Port Entrance – Approach channel 2. Turning circle 3. Near to Coal berths 4. Reclamation Area

II. Environment Management Programme, Sustainable Measures & Activities

1. Ambient Air Quality Monitoring:

AKPL has been operating 5 No. of CAAQM stations of Beta Ray Attenuation technology to measure the parameters PM₁₀, PM_{2.5}, NO₂, NH₃, SO₂, CO, at the following locations and data connected to APPCB website.

Station code	Location	Direction w.r.t. Project site	Coordinates Latitude & Longitudes	Distance from Port
CAAQMS - 1	At CVR Building	WNW	14°16'33.45"N 80° 5'54.46"E	1.4 KM
CAAQMS - 2	Thamminapatnam Village	S	14°13'39.25"N 80° 6'5.84"E	2.5 KM
CAAQMS -3	Krishnapatnam Village	NNW	14°16'47.69"N 80° 6'23.17"E	3.0 KM
CAAQMS -4	Towards North side	NW	14°16'0.36"N & 80° 4'36.95"E	2.93 KM
CAAQMS -5	Towards South side	S	14°14'2.49"N & 80° 6'34.63"E	1.45 KM



Station – 1
CVR Amenities Complex



Station – 2
Thamminapatnam Village



Station – 3
Krishnapatnam Village

Additional CAAQMS stations in AKPL site



North West direction of the port

Latitude : 14°16'0.36"N
Longitude : 80° 4'36.95"E.

South direction of the port

Latitude : 14°14'2.49"N
Longitude : 80° 6'34.63"E

The Port appointed an NABL accredited SV Enviro Laboratories to monitor the air quality and submitting the Monitoring reports to APPCB on monthly basis along with the Compliance reports & to MoEF & CC on Half-Yearly basis.

Google image showing AKPL CAAQM Stations



Station code	Location	Direction w.r.t. Project site	Coordinates Latitude & Longitudes	Distance from Port
A1	At Zero Point	W	14°16'2.44"N 80° 4'26.66"E	2.5 KM
A2	At Thamminapatnam Village	S	14°13'39.25"N 80° 6'5.84"E	2.5 KM
A3	At CVR Building	WNW	14°16'33.45"N 80° 5'54.46"E	1.4 KM
A4	At Gopalapuram Village	NW	14°16'41.22"N 80° 6'24.46"E	2.5 KM
A5	At Chalivendram	WNW	14°16'38.40" 80°5'11.84"	2.5 KM
A6	At Krishnapatnam	NNW	14°16'47.69"N 80° 6'23.17"E	3.0 KM
A7	At Light House	SW	14°17'37.33" 80°7'49.46"	2.5 KM

Table 1 : CAAQM Stations Technical details

Sl.	Details	Station -1		Station-2		Station-3		Station-4	Station-5
1.	Location	CVR Amenities Complex		Near & towards Thamminapatnam Village		Near & towards Krishnapatnam Village		Towards North side	Towards South side
2.	Model No.	PM10 & PM2.5 (5028i), CO (48i), SO2 (43i), NH3- NOx(17i)		PM10 & PM2.5 (5028i), CO (48i), SO2 (43i), NH3- NOx(17i)		PM10 & PM2.5 (BAM 1020), CO (48i), SO2 (43i), NH3- NOx(17i)		PM10 & PM2.5, CO, SO2, NH3-NOx	PM10 & PM2.5, CO, SO2, NH3-NOx
3.	Make	Thermofisher Scientific (All analyzers)		Thermofisher Scientific (All analyzers)		Thermofisher Scientific & BAM 1020 is MET One)		Thermofisher Scientific (All analyzers)	Thermofisher Scientific (All analyzers)
4.	Type	PM10-2.5: - Betta ray attenuation. CO: Infrared radiation SO2: Ultraviolet NH3-NOx: Chemiluminescence		PM10-2.5: - Betta ray attenuation. CO: Infrared radiation SO2: Ultraviolet NH3-NOx: Chemiluminescence		PM10-2.5: - Betta ray attenuation. CO: Infrared radiation SO2: Ultraviolet NH3-NOx: Chemiluminescence		PM10-2.5: - Betta ray attenuation. CO: Infrared radiation SO2: Ultraviolet NH3-NOx: Chemiluminescence	PM10-2.5: - Betta ray attenuation. CO: Infrared radiation SO2: Ultraviolet NH3-NOx: Chemiluminescence
5.	Parameters	NOx	NH ₃	SO ₂	CO	PM10	PM 2.5	PM10 & PM2.5	PM10 & PM2.5
		Nitrogen Oxide	Ammonia	Sulfur di-oxide	Carbon Monoxide	PM – Particulate Matter		PM – Particulate Matter	PM – Particulate Matter
6.	Standards	0 to 80 ug/m ³	0 to 80 ug/m ³	0 to 80 ug/m ³	0 to 4.0 mg/m ³	100 ug/m ³	60 ug/m ³	100 ug/m ³	60 ug/m ³
7.	Supplier/AMC	Thermofisher Scientific							
8.	Installed on	24.06.2023		24.06.2023		24.06.2023		March'25	March'25
9.	Calibrated on	16.12.2024		17.12.2024		18.12.2024		-	-
11.	Server	NK Square Solutions							
12.	Connectivity	APPCB website http://aprtcms.ap.gov.in							

The CAAQMs are being calibrated periodically

AAQMS Analyzers Calibration Report

Calibration date: 17-12-2024

AAQMS – 1 (CVR Building)
Site Address: Krishnapatnam Port, Muthukur Mandal, SPSR Nellore, Andhra Pradesh

Thermo Scientific Analyzer	Parameter			Analyzer Measured Value			Acceptable error in full scale 1000 ppb (SO2 & NOx) and Sppm (CO)
	Standard	Concentration	Unit of Measurement	Before	After	Error	
NOX SNo. CM22197063	Zero	0.0	PPB	1.8	00	1.8	±1%
	NOx Span	400	PPB	406	400	6	±1.5%
	Cylinder No – DO14032 (36.9 PPM) Expiry date:						
NH3 SNo. CM23087130	Zero	0.0	PPB	0.9	00	0.9	±1%
	NH3 Span	400	PPB	392	400	8	±1.5%
	Cylinder No – DO14041 (108 PPM) Expiry date:						
SO2 SNo. CM23087130	Zero	0.0	PPB	2.3	00	2.3	±1%
	SO2 Span	400	PPB	397	400	3	±1.5%
	Cylinder No – DO14184 (42 PPM) Expiry date:						
CO SNo. CM221467086	Zero	0.0	PPM	0.16	00	0.16	±1%
	CO Span	4	PPM	3.93	4	0.7	±1.5%
	Cylinder No – DO14060 (95 PPM) Expiry date:						
PM10 5028i CM22488001	Zero Foil	Auto zero activated					±20µg
	Span Foil	1288	H ₂	1270	1288	18	±20µg
PM2.5 50128i CM22488001	Zero Foil	Auto zero activated					±20µg
	Span Foil	1288	H ₂	1279	1288	9	±20µg

- Above analyzers are purged with zero air before performing the calibration.
- Thermo Scientific make 1461 Dynamic Gas Calibrator used for diluting span gases.
- All the SPAN Gas Cylinders are the balance of N2.
- PM 10 & PM 2.5 calibration valid up to 16.12.2025.
- SO2, NOx, CO, and NH3 calibration valid up to 16.03.2025.



M/S. Thermo Fisher Scientific

M/s. Adani Krishnapatnam Port Ltd

Corporate Office: 100, 10A, Digital IT, Hyderabad, India
Phone: +91 022 67429999
+91 022 67429998

AAQMS Analyzers Calibration Report

Calibration date: 18-12-2024

AAQMS – 2 (Thamminapatnam)
Site Address: Krishnapatnam Port, Muthukur Mandal, SPSR Nellore, Andhra Pradesh

Thermo Scientific Analyzer	Parameter			Analyzer Measured Value			Acceptable error in full scale 1000 ppb(SO2 & NOx) and Sppm (CO)
	Standard	Concentration	Unit of Measurement	Before	After	error	
NOX SNo. CM22197063	Zero	0.0	PPB	1.6	00	1.6	±1%
	NOx Span	400	PPB	398	400	2	±1.5%
	Cylinder No – DO13954 (36.9 PPM) Expiry date:						
NH3 SNo. CM22197063	Zero	0.0	PPB	5	00	5	±1%
	NH3 Span	400	PPB	394	400	6	±1.5%
	Cylinder No – DO14640 (108 PPM) Expiry date:						
SO2 SNo. CM22427072	Zero	0.0	PPB	2.9	00	2.9	±1%
	SO2 Span	400	PPB	393	400	7	±1.5%
	Cylinder No – DO14147 (49 PPM) Expiry date:						
CO SNo. CM23077102	Zero	0.0	PPM	0.24	00	0.24	±1%
	CO Span	4	PPM	3.96	4	0.04	±1.5%
	Cylinder No – DO14054 (96 PPM) Expiry date:						
PM10 5028i CM22488002	Zero Foil	Auto zero activated					±20µg
	Span Foil	1248	H ₂	1242	1248	6	±20µg
PM2.5 50128i CM22488002	Zero Foil	Auto zero activated					±20µg
	Span Foil	1248	H ₂	1237	1248	9	±20µg

- Above analyzers are purged with zero air before performing the calibration.
- Thermo Scientific make 1461 Dynamic Gas Calibrator used for diluting span gases.
- All the SPAN Gas Cylinders are the balance of N2.
- PM 10 & PM 2.5 calibration valid up to 17.12.2025.
- SO2, NOx, CO, and NH3 calibration valid up to 17.03.2025.



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Calibration Certificate
Station 1 – CVR Amenities Complex

Calibration Certificate
Station 2 – Thamminapatnam Village

SWAN TECHNICAL SERVICES PVT. LTD.,
 (Group of Swan Environment Pvt. Ltd.)
 (ISO 9001 : 2015 CERTIFIED)
 Plot No. 822 & 935, Swami Ayyappa Co-Op Society, Mathapur, Hyderabad - 500 061, Telangana, India
 Ph: + 91 - 40 - 4021 6164 / 65, Fax: 40216163.
 Email: info@swanenviro.com, service@swanenviro.com, Website: www.swanenviro.com

CALIBRATION CERTIFICATE

Certificate No. : SEPLAAQMS/2024-25/761 Date of Issue: 09.08.2024
 Customer : M/s. Krishnapatnam port, Muthukur mandal, SPSR Nellore, Andhra Pradesh
 Location : AAQMS-3 (Krishnapatnam village)

Instrument Details:
 Instrument : PM 10 Analyzer Date of Calibration : 09/08/2024
 Make : Ape One Instruments, Inc. USA Due Date : 05/12/2025
 Model : BAM-1020
 Serial No : X10170

Calibration Film Details:

Details	Serial No.	Calibration Film Value
Calibration Film	X10170	0.813 mg/cm ³

Calibration Details:

Parameter	Standard Value	Span Calibration Measured Value	% Of Deviation
Film Value	0.813 mg/cm ³	0.818 mg/cm ³	0.61 %

Accepted Tolerance: ± 2 %
 Result: The Calibration of above instrument is performed and it meets the acceptance criteria

Calibrated By:  S. Manimad Rafi
 Service-Engineer

Reviewed By:  V. Pradeep
 Manager-Service



Envirotech
 ONLINE Online Equipments Pvt. Ltd.

43i SO₂ Analyser Calibration Report

Make of Analyser: Thermo fisher scientific

Customer: Adani Krishnapatnam Port Ltd
 Instrument: 43i-3025 A A SO₂
 ID No.: CML2867879
 System/Job No.: 5702020747 Dt. 26.10.2024

Calibration Performed by: Narsanya Rao. V
 Date: 16-12-2024
 Time Begin/End: 10:45 AM | 12:45 PM
 Location: AKPL, Nellore

Calibration Equipment

Calibrator Model	Multi Gas Calibrator	Gas Std. Cylinder Serial No.	D01411
ID/Serial No.	DDC-2303-003	Cylinder Concentration (ppm)	49
Zero Air Source Model		Cylinder Expiry Date	11-06-2025
ID/Serial No.		Cylinder Pressure (kg/cm ²)	130
		Cylinder Calibration	PASS

Displayed Instrument Parameters

Firmware Version	3.48.0000	Instrument Units	ppb
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Single Point Calibration

Initial Span Instrument Gain	5.203	Full Scale (ppt)	500
Initial SO ₂ Offset (ppb)	1		

Precalibration Check

Calibration Point	Zero flow (sccm)	Span flow (sccm)	Calculated SO ₂ (ppb)	Measured SO ₂ (ppb)	Error (%FS)
Zero	3000	0	0	1	0.2%
80% FS	2980	24.1	293.1	400.1	1.4%

Note: Pre calibration check shall be within 2% of FS value for SO₂ span
 Zero values should be with in 2% of Full Scale


PASS/FAIL: **PASS**

Multipoint Linearity Check

Calibration Point	Zero flow (sccm)	Span flow (sccm)	Calculated SO ₂ (ppb)	Expected SO ₂ (ppb)	Measured SO ₂ (ppb)	Error (%)
Zero	3000	0.00	0	0	0.4	
20% FS	2990	6.5	106.3	100	101.7	1.7%
40% FS	2990	11.9	194.2	200	203.8	0.9%
60% FS	2980	18.0	303.5	300	301.5	0.5%
80% FS	2960	24.1	395.7	400	401.3	0.3%
Zero	3000	0.00	0	0	0.6	

Note: Do not fill in the shaded cells
 Standard error: about y = x (% FS) 0.12%
 R-Square Value 1.0000
 Intercept 1.0200

PASS/FAIL: **PASS**
 Note: final Zero must be within 1% of FS
 Standard error of y about x must be < 1% FS

Technician Signature:  Date: 17-12-2024

Page 1

Calibration Certificate
Station 3 – Krishnapatnam Village

2. The environment monitoring measures implemented at Mechanized and semi mechanized operations in AKPL.

I. Coal Handling:

- The Coal cargo is usually unloaded by mechanical means using Grab unloaders which are extremely versatile, mobile cranes and grabs used are equipped with ECO control system (100 % closed grabs).
- The coal is transported from berth by conveyor belts to destination in case of neighboring thermal power plants and to storage yards in respect of remaining volume.
- The stackers will be used for stacking coal by mechanical means, Reclaimers will be used to reclaim and transport wagon loader by conveyor.
- Coal is transported by roadways (trucks) as well as waterways (ships or barges) for which the transport is done by conveyors and trucks and loading by mechanical means into the ships.

- All conveyors are covered, and transfer houses are provided with cladding to avoid transit spillage.
- All the outbound railway wagons and trucks are fully covered. The Spillage at loading station will be very nominal as wagon loading stations are electronically controlled with PLCs.
- Mechanized dust suppression systems are provided for coal storage yards, conveyors, wagon loading stations. Heavy duty atomizers for other areas augmented with mobile sprinkler systems.

II. Iron ore Handling:

AKPL has the infrastructure to handle iron ore, operating as per consented quantity. AKPL has introduced a groundbreaking containerized bulk handling system for iron ore, revolutionizing efficiency and environmental sustainability. The below four stage process ensures seamless transportation from stockpile to ship.

Containers are filled at the stockpile, transported to Berth and then unloaded into the vessel through a Mechanical container tipping system. Advantages of containerized bulk handling gives Flexibility in cargo handling, reduces congestion at port, improved supply chain management, Increased cargo security.

A cutting-edge mist spray system minimizes dust pollution during tipping process, ensures environmental compliance, enhances worker safety Optimizes cargo handling, reducing the environmental impact.

III. Fertilizer Handling:

The fertilizers will be unloaded from ships by mechanical means with Grab unloaders. Transport from berth by covered conveyors to covered warehouses as cargo is hygroscopic. Reclaiming will be done by reclaimers and transported to wagon loader by conveyor and loading into wagons by continuous wagon loader, in case of bulk transport. In respect of bagged transport, conveyor transports the bulk fertilizer to mechanized bagging plant and transports bagged fertilizer by wagons and trucks.

All conveyors are covered and transfer houses are provided with cladding. All outbound Railway wagons and trucks are fully covered.

IV. Cement Handling:

- The cement in bulk form from grinding unit to berth will be transported by means of closed conveyor. The loading of ships will be done by mechanical means. Transport of bagged cement by trucks to berth and loading will be by means of ships gear or shore crane. Conveyors and warehouses are fully covered as the cargo is hygroscopic.
- All conveyors are covered, and transfer houses are provided with cladding. All outbound Railway wagons and trucks are fully covered.
- Unloading/loading from/to ships will be by mechanical means with Grab unloaders. Transport from berth will be by covered conveyors/trucks to covered warehouses as the cargo is hygroscopic.
- In respect of bagged transport, conveyor transport of bulk cement to mechanized bagging plant and bagged cement transported by wagons and trucks. All the outbound railway wagons and trucks are fully covered.
- Existing Bag filters prevents cement dust escape to the open atmosphere and filtered cement dust will be return to cargo hold.

V. Granite and other dry cargo Handling:

- Transport of Granite & other dry cargo to storage yards will be done by railway wagons and trucks. The transport from storage yards to berths will be by trucks and loading into ships will be by ships gear or shore cranes.
- All railway wagons and trucks are fully covered. Nominal spillage, if any, will be very less and will be reclaimed and deposited in the warehouse.
- Mechanized dust suppression systems for storage yards, with heavy duty atomizers augmented with mobile sprinkler systems have been provided.

VI. Edible Oil/Crude Oil, POL & other Liquid Cargo Handling:

- The cargo will be unloaded from ships through ship pumps. It will be then transported to refineries /storage by pipelines.
- The liquid cargo will be unloaded by means of ships pumps and loaded by means of pumping at source and conveyance by pipeline.

VII. Container Cargo:

Containers transit will be done by specific/separate vessels, and the containers were lifted using cranes i.e gantry cranes, mobile harbor cranes. By using spreaders, they were stored in designated yard areas. And scrutiny will be done by visual inspection, X-ray scanning, weighing to verify cargo weight, seals verification will be done for integrity. Stacked in designated areas under block stacking, row stacking and stacking is done by automat system.

3. The environment monitoring measures adopted by AKPL are summarized:

a. Dust Suppression – Mechanical Dust Suppression System (MDSS) :

AKPL has Established Mechanical Dust Suppression System with 248 no's of water cannons at stack yards for dust suppression. The water cannons at 50 -100 metres intervals which covers a horizontal radius of approx.. 50 meters and reaches a height upto 15 metres and rotates in 180 degrees.

The water is sprayed from various points by water cannons at pressure of about 2-4 Kg/cm² to form a mist over the cargo stacks and other places and the mist attracts the dust to settle it down without spreading along the wind.



Dust suppression system at south side of the Port

b. Dust suppression through Tankers

Water sprinkling is being carried out on the general cargo berth and in other areas viz. Roads and yards through water tankers of 26 nos. to arrest the dust pollution causing by the vehicular movement in the port. AKPL is spending around Rs. 7 lakhs per month on an average towards water charges and maintenance.



- Deployed 12 Nos. of Truck mounted sprinklers for roads and transit areas & stock piles.
- c. **Dust suppression system through Atomizers**
- AKPL being operated 4 heavy duty atomizers as innovative technology in dust suppression system.
- These Atomizers helpful to efficient water distribution in uniform spray patterns through pressurized nozzles. It reduced water consumption also.



As part of sustainable development activities, using these special devices ensure to prevent the dust pollution and to ensure the pollution parameters are within the permissible limits stipulated by statutory departments.

d. Truck/Wagon Tarpaulin Covering facilities:

AKPL established 27 No. of truck tarpaulin covering stations at various locations within the Port to facilitate and ensure all the outgoing cargos by Trucks are covered with tarpaulin.

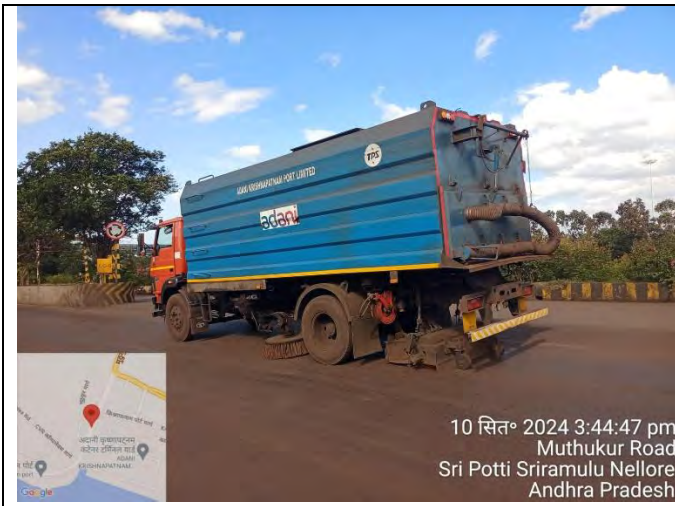
AKPL ensuring that the tarpaulin is covered in all sides of the truck and tightly tied with rope to avoid transit spillages till the truck reaches the destination.





- Ensuring all the outbound cargo rakes are covered with tarpaulin and tightened with rope to avoid transit spillages.

e. Deployment of Road Sweeping Machines



- 3 No of Heavy Duty Vacuum Sweeping Machines are being deployed at operational areas and all internal roads.
- Provided 8 No. tractor mounted hydraulic broom sweeping machines for cleaning the roads and jetty areas.



Green Belt – Coal sidings

VIII. Mechanized Operations:

The State of art mechanical dust suppression system is provided at various critical points i.e., equipment (Hopper & reclaimers), hooded conveyor belts and the storage yards have been functioning well throughout the system. Ensuring these measures, the Port can mitigate all the dust that is being generated during the operations. The other berths are being used to handle other cargos such as Project cargo, fertilizer (Urea), Sugar etc.

- AKPL using Grab ship unloaders and conveyers with water sprinkling system for handling coal from berths to storage yards and also to nearby power plants which reduced dust generation, compared to dumpers for transporting coal.
- AKPL operating silo facility with telescopic chute system for loading the cargo in railway wagons. After those entire rakes covered with tarpaulin covers to avoid the fugitive spillages.
- Established fully mechanized and closed operations associated with mist sprinkling system to prevent fugitive emissions.
- Provided Dust suppression systems at Hoppers, discharge/feeding points of belt conveyors at each transfer tower.

Provided and operating Stacker cum re-claimers for loading and unloading the coal. Dedicated mist sprinklers are provided to prevent fugitive emissions.

- Meet the statutory requirements & compliance.
- Reduce the carbon emissions

The environment department is fixing its own targets besides statutory requirements and achieving the targets from time to time.

The land available in AKPL is mostly sand dunes and salt pans which are not supportive for plantation.

AKPL developed a good plantation with saplings suitable for the available land and achieved good results. To achieve good and dense plantation, AKPL adopted Miyawaki plantation on the advice of APPCB

High Density Plantation (Miyawaki)

Miyawaki afforestation / plantation involves several different types of native plants closely just to form a Green Wall and a completely chemical free forest in an organic way that sustains itself, supports local biodiversity, and attracts birds and insects. In 'Miyawaki' forests, the trees grow more quickly and absorb more CO2 than plantations grown for timber.

Its benefits include lowering temperature, making soil nutritious, supporting local wildlife and sequestration of carbon.

With the spirit of Miyawaki type plantation, AKPL continued further plantation in Miyawaki method in the other locations, viz., LC3 location and Chalivendram boundary.

Below details show the periodical development of Greenbelt during the last 3 years: Table

AKPL: Periodical Development of Greenbelt during the last 3 years				
S.no	Financial year	Target	Achieved	Survival
1	2021-2022	100000	103890	85 %
2	2022-2023	100000	103242	89 %
3	2023-2024	200000	220953	89%
	TOTAL	400000	428085	

Nursery:

AKPL Established an exclusive nursery in an extent of 4.5 Acres within the Port premises and maintaining about 1.9 L to 2.0 L saplings of Avenue, Ornamental & Fruit bearing species viz., Badam, Tabebuia argentea, Polyalthia longifolia. Spathodea campanulate Samanea saman, Mangifera indica, Psidium guava, Bougainvillea, Pheonix palm, Ixora chinensis rosea, Pandanus Veitchi, Cocos Nucifera, Allamanda nerifolia , Bougainvillea Pedilanthus, Cassia fistula, Peltophorum, Cassia siamea, Delonix regia, Hibiscus rosa-sinensis, Clitoria ternatea, Casuarina Equisetifolia, etc.

The captive nursery played a significant role in restoration / reforestation after series of cyclones.

AKPL: Green belt photographs





1. Mangrove Conservation In AKPL:

- Protecting and conserving the existing mangrove areas with suitable barricading, erection of display boards and ensuring the tidal flow. As a part of Phase I EC compliance, an area of 9 acres (3.64 ha) of mangroves are being conserved in the port areas since its inception.
- Mangrove restoration is to be considered as a viable option for enhancing the green belt cover.
- The proponent shall continue to restore mangroves in the suggested sites with species like *Avicennia marina*, a resilient and common species along the creek.
- Afforestation of mangrove cover along the creeks shall be continued and intensified.
- Raise awareness in the local community about the importance of mangroves and their importance.
- Measures should be taken for desilting the creeks for easy tidal water flow which will enhance the natural flushing leading to healthy growth of mangroves.
- Illegal cutting of mangroves during the construction and operation phase of port should be prevented.





AKPL Concern Towards Public Health & Education

Adani Foundation has taken community developments Programs in area of Health, Education, Sustainable developments and provided infrastructure facilities in surrounding villages.

Health Awareness Camps:

- ❖ 5000 Community Families with 25000 family members living in 5-gram panchayat project villages of Adani Krishnapatnam Port Limited have been access to health care facilities at Village threshold level by means of Mobile Health Camps once in a fort night at every village.
- ❖ **6000 rural patients with general health ailments were diagnosed** and the patients were given basic medication for their ailments on the spot.
- ❖ Frequent health recovery checkup is be done by team of Arrjawva Warriors in the 10 project villages of Total Health based on gravity of the ailments.

- ❖ Rural health camps are organized **4 times a month** in association with the local Govt., Health Authorities as per availability the feedback from the patients is found to be more than satisfaction and paving the way to brand image of Adani Foundation at nook and corner of every village.
- ❖ The District Govt., Health Authorities as well as local administration feel happy to support community families while working with Adani Foundation on health care management.

		
<p align="center">Health Camp at Chalivendram</p>	<p align="center">Health Camp at Krishnapatnam</p>	<p align="center">Health Camp at Gummalladibba</p>
 <p>నెల్లూరు జిల్లా వార్తలు, మెన్మోసీల్ డౌన్లోడ్ </p> <p>కృష్ణపట్నంలో ఉచిత వైద్య సేవలు ముక్తుకూరు మండలం కృష్ణపట్నం గ్రామ పంచాయతీలో అంగన్వాడీ కేంద్రం విద్యార్థులకు సామవారం అదానీ ఫౌండేషన్ ఉచిత వైద్య సేవలు అందించింది. ఈ కార్యక్రమాన్ని అదానీ కృష్ణపట్నం పాస్ట్ లీమిటెడ్ కార్పొరేట్ సంస్థ సామాజిక బాధ్యతలో భాగంగా ఆర్కాట్పాలెంలోని అంగన్వాడీ కేంద్రంలో చిన్నారులతో పాటు, తల్లిదండ్రులకు ఆరోగ్య పరీక్షలు నిర్వహించారు. ఉచితంగా మందులు అందజేశారు.</p> <p>© 07:53 am, 30th Jun 2024</p>		
<p align="center">Health Camp at Anganwadi Centre Arcotpalem</p>	<p align="center">General Health Camp at Adani Chikistalayam</p>	<p align="center">Health Awareness Programme at AVMK</p>

Education:

- ❖ Identified the bottle necks of lack of science laboratory at the govt. schools, students not attaining the minimum learning level at the govt. schools being faced by 2500 rural students studying in Govt., Primary, Upper Primary & High Schools in project village of Adani Krishnapatnam Port Limited and

Adani Foundation planned to supplement the ground level requirements of academics and lab material.

- ❖ 1496 pupils of 32 govt. primary schools in 4 nos. of mandals stood behind in their academic subjects were identified by our ULIC and AEEC Educators and get clarified their academic doubts before closing of the schools.
- ❖ Special care is being paid to more than 600 students of 4 Govt. schools to develop speaking, writing and reading of English Language among community wards studying in Anganwadi Centers, Primary, Upper Primary & High Schools and cultivated the habit of English News Papers aloud and develop the literature.
- ❖ Adani Foundation supported the school children of 2 govt. schools to overcome the drinking water problem by means of providing water storage bubbles as well as dispensers.

		
<p align="center">Inauguration programme EM Anganwadi Centre at Arkatpalem</p>	<p align="center">Independence Day Programme EM Anganwadi Centre at Arkatpalem</p>	<p align="center">Parents Meeting ZP HS – Krishnapatnam</p>
		
<p align="center">ULIC Centre – Doruvulapalem</p>	<p align="center">AEEC – English Class / Communication skills at ZP HS Krishnapatnam</p>	<p align="center">CEO Sir visit at ZP HS Krishnapatnam</p>

Sustainable Livelihoods:

- ❖ New as well as 500 progressive farmers in peripheral villages of Adani Krishnapatnam Port Limited are awakened by means of conducting training sessions in association with Krishi Vignana Kendra as well as local Govt., Agriculture Officers and motivated them to cultivate agriculture on organic methods

and putting an end to chemical fertilizer application to protected soil from erosion and pesticidal effect.

- ❖ 100 Village cattle owners have been identified and motivated them to bring the cattle for medical checkup being done by Adani Foundation in association with Local Govt., Veterinary Department staff and preparing the cattle owners to feed their cattle nutritious food for giving good amount of milk and keep cattle health good.
- ❖ Promoted skill development among 100 economically backward community women and imparted them training how to make pickles, nutritional food items, handwash liquid, organic floor cleaner, traditional basket making and train them to make business plans, organize small scale business units, marketing profit and loss assessment etc., in order to generate income to meet the livelihood of their family members.



Women Group Training at R & R Colony



CEO Sir, AKPL and CEO Sir, AF Interaction with SLD Programmes



FPC Board Directors and Farmers Meeting



Training on Livelihood activities

- ❖ Greater attention and care are being taken by Adani Foundation to redress the chronic problems being faced by the community families for drinking water in peripheral villages of Adani Krishnapatnam Port Limited.
- ❖ A close watch and supervision are carried out over the functioning of R/O water filter plants in community villages and striving to keep all plants premises in spic and span. 25000 villagers are being provided with filtered clean and safe drinking water on a daily basis.
- ❖ 10000 villagers were given mosquitoes free and water logging pits free ambience in and around their houses by diverting the discharge water from the R/o water filter plants to the mainstream of public

drainage system through manholes erection and covered pipelines in 10 peripheral villages of AKPL and Adani Foundation at Krishnapatnam site.

- ❖ 500 village youths and girls were given sports training and given opportunities to take part in cricket, volleyball and Kabaddi tournaments for their behaving positively and remain physically fit.

			
<p>R/O Filter Water at Gummalladibba</p>	<p>R/O Filter Water at Gummalladibba</p>	<p>Sports Activities</p>	<p>Sports Activities</p>
			
<p>R/O Filter Water at R & R Colony, Muthukur</p>	<p>R/O Filter Water at R & R Colony, Muthukur</p>	<p>Interaction with Youth</p>	<p>Girls Cricket Match at ZP HS Krishnaaptnam</p>

Cleaning and Sanitation Program





Clean and Green in Krishnapatnam : Efforts to protect the environment

(Capital Information)
Nellore, Aug 3 : Clean and Green Program in Krishnapatnam Village Adani Foundation Krishnapatnam Panchayat in collaboration with Adani Krishnapatnam Port jointly conducted a clean and green program on Saturday. As part of environmental protection, the Foundation Head, Rajesh Ranjan Yekoilu Kodandaramaiah, works from Shiva Temple area in Port Krishnapatnam.

Bonigi Anandaiah and the villagers started cleaning the drainage canals of the village to prevent waste water from being stored and the Adani Foundation is working to preserve the plants in the village, said Rajesh Ranjan, Head of the Adani Foundation. He mentioned that these programs are being held in Krishnapatnam for a week. Adani Krishnapatnam port will take the lead in making Krishnapatnam village clean and green with the cooperation of villagers.

Govindaiah, Ramakrishna, Venkataramaniah, Akkaiah Gari Prasad, Karanam Nagaraju, Suresh, Adiseshaiah, Adani Foundation representatives Ramesh Babu, Ravindra Arun and villagers participated.

- A. Jaya Prakash

అదాని ఫౌండేషన్, కృష్ణపట్నం పంచాయతీ సంయుక్తంగా క్లీన్ అండ్ గ్రీన్



• ములు ప్రారంభించిన ఫౌండేషన్ పాల్ గాజేట్ రంజన్, ఆనందయ్య

• వారం రోజులు పాటు కృష్ణపట్నంలో సాగిస్తున్న క్లీన్ అండ్ గ్రీన్

కాపురమన్న రేవెన్యూ పంచాయతీ ప్రాంతాల్లో కృష్ణపట్నం పంచాయతీ సమన్వయంతో కలిసి కార్యక్రమం చేపట్టారు. ప్రాంతంలోని డ్రైనేజీ కాలువలను శుభ్రం చేయడం ద్వారా వ్యర్థ నీరు సేకరించడం ద్వారా పరిసర ప్రాంతాలను శుభ్రం చేయడం ప్రాధాన్యతగా ఉంది. ప్రాంతంలోని పంట పొలాలను శుభ్రం చేయడం ద్వారా వ్యర్థ నీరు సేకరించడం ద్వారా పరిసర ప్రాంతాలను శుభ్రం చేయడం ప్రాధాన్యతగా ఉంది. ప్రాంతంలోని పంట పొలాలను శుభ్రం చేయడం ద్వారా వ్యర్థ నీరు సేకరించడం ద్వారా పరిసర ప్రాంతాలను శుభ్రం చేయడం ప్రాధాన్యతగా ఉంది.

Cleaning & sanitation Program at Krishnapatnam Village

Sanitation Program:

Adani Foundation is supporting the Sanitation Program in all 8 community villages to enable to provide safe health environment to the community families.



Plantation and Environment Protection Program



New Initiatives for effective Environment & Sustainability:

- Completed Electrification of Cranes & Compressor from diesel Cranes
- Usage of EV 4 – wheelers for Employee transportation
- Started plantation program 'Each One Own One Plant' with "Geotagging".
- Converted 9 no's Liebherr cranes from diesel operated to Electrically operated.
- Converted 1 diesel operated oil compressor to electrically operated.
- All Marine tugs provided with shore power 100% while at jetty.
- Established hooded conveyor belts to mitigate dust emission into the atmosphere.
- Provided Fire hydrant system for Wagon loading station.
- Provided facilities for truck tarpaulin covering stations of 27 nos. at various transit locations to facilitate and ensure tarpaulin coverage to all the outgoing cargo trucks.
- Provided facilities for Railway Rake to ensure tarpaulin coverage to all the outgoing cargo rakes.



EV vehicle

- We installed CC TV cameras and operating by trapping solar energy through panel installed on CC TV pole and Provided LED lights in their offices and port areas.



LED Lights

adani

Ports and
Logistics
AKPL/EHS/APPCB/Form-5/082/2024

Date: 26.09.2024

To

The Environmental Engineer
A.P. Pollution Control Board,
Regional Office,
SPSR Nellore District.



Sir,

Sub: - Adani Krishnapatnam Port Limited, Krishnapatnam (PO) Muthukur (M), SPSR Nellore Dist. - Environment Statement - FORM - V - Submitted - Reg.

Ref: - CTO & HWA Order No. APPCB/VJA/NLR/11344/CFO/HO/2019, dated 11.11.2022, valid up to 31.08.2027.

@@@

In compliance with the Consent & HW Authorization Condition No.6 stipulated in Schedule - A of CTO & HWA Order vide reference cited, and as per Rule No.14 of E(P) Rules,1986 & amendments thereof, submitting herewith the Environment Statement in Form V for the year 2023-2024.

Kindly acknowledge receipt of the same.

Thanking you.

Yours faithfully,

for Adani Krishnapatnam Port Limited.,

Dr. D. Jyothi
Vice President/Environment

Encl: Copy of Form - V - Environment Statement along with attachments.

Adani Krishnapatnam Port Ltd
PO Bag No 1
Muthukur Mandal
SPSR Nellore 524 344
Andhra Pradesh, India
CIN: U45203GJ1996PLC128239

Tel: +91 861 237 7999
Fax: +91 861 237 7046
www.adaniports.com

Registered Office: Adani Corporate House, Shantigram, Near Vaishno Devi Circle, S G Highway, Khodiyar, Ahmedabad 382 021, Gujarat, India



Ports and
Logistics
AKPL/EHS/APPCB/Form-5/082/2024

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for Adani Krishnapatnam Port Limited.,

Dr. D. Jyothi
Vice President/Environment

Encl: Copy of Form - V - Environment Statement along with attachments.

ENVIRONMENTAL STATEMENT**FORM - V****(See Rule - 14)**

The Ministry of Environment & Forest vide its notification dated 13th March 1992 directed all industries which need to have consent under Water (Prevention & Control of Pollution) 1974 and Air (Prevention & Control of Pollution) 1981 to file the Environmental statement every year. This is to be filed for the period ending March by September 30th every year. The format for the same is as follows:

ENVIRONMENTAL STATEMENT FOR THE YEAR ENDING 31ST MARCH 2024**PART - A**

- I. Name and address of the owner / occupier of the industry, operation or process. : M/s. Adani Krishnapatnam Port Limited
Adani Corporate House, Shanti gram,
Nr Vaishno Devi Circle,
Corporate Office S.G Highway, Khodiyar, Ahemdabad-
382421, Gujarat.
- II. Site Office : M/s. Adani Krishnapatnam Port Limited
Post Box No. 1, Krishnapatnam Village
Muthukur Mandal
Sri Potti Sri Ramulu Nellore District
Andhra Pradesh - 524 344
- III. Operation or Process : Port - Services
- IV. Industry category Primary- : -----
(STC Code) Secondary- (STC Code)
- V. Production category. Units Services
- VI. Year of establishment : 2009
- VII. Date of the last environmental Statement submitted : **30.09.2023 for the period of 2022-2023**

PART - B

- i. Water and Raw Material Consumption :
Water consumption in m³/d Please refer Annexure A
Process:
Cooling:
Domestic:

Name of Products	Process water consumption per unit of products	
	During the previous financial year	During the current financial year
---	---	---

ii. Raw Material Consumption : Please refer Annexure B

Name of raw materials*	Name of Products	Process water consumption per unit of products	
		During the previous financial year	During the current financial year
Being a port activity, no raw material handling involved. Only handling various cargo is being carried out at AKPL.			

*Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries must name the raw materials used.

PART - C

I. Pollution Discharge into Environment /unit: **Please refer Annexure C**
of output (Parameter as specified in the consent issued)

Pollutants	Qty. of pollutants Discharged (Mass/day)	Concentration of pollutants in discharges(mass/volume)	Percentage of variation from prescribed standards with reasons
A. Water	-	-	-
B. Air	-	-	-

PART-D

I. **HAZARDOUS WASTE** : Please refer Annexure D
(As specified under Hazardous Wastes Management & Handling Rules, 1989).

Hazardous Wastes	Total Quantity (Kg)	
	During the Previous Financial year	During the current financial year
1. From Process	--	--
2. From Pollution Control facilities		

PART - E**I. SOLID WASTES:**

Solid Wastes	Total Quantity (Kg)	
	During the previous FTY 22-23	During the current FY23-24
a. From process	<p>From port operation i.e., handling and storage of cargo:</p> <ul style="list-style-type: none"> • Plastic waste, iron, aluminium & cardboard etc. are disposed to authorized recyclers/ re-processors permitted by Andhra Pradesh Pollution Control Board. - 3916.6 Tons of scrap was sold to authorized vendors for the FY 2022-2023. - Sludge generated from sewage treatment plant is being used as manure for development of green belt within the port premises. • 9.91 Tons is used as manure during the FY 2022-2023. 	<p>From port operation i.e., handling and storage of cargo:</p> <ul style="list-style-type: none"> • Plastic waste, iron, aluminium & cardboard etc. are disposed to authorized recyclers/ re-processors permitted by Andhra Pradesh Pollution Control Board. - 2357.37 Tons of scrap was sold to authorized vendors for the FY 2022-2023. - Sludge generated from sewage treatment plant is being used as manure for development of green belt within the port premises. • 7.16 Tons is used as manure during the FY 2023-2024.
b. From Pollution Control Facility	-	-
c. Quantity recycled or utilized within the unit.	-	-

PART - F

1. Please specify the characteristics (in : **Not Applicable** terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

PART - G

1. *Impact of the pollution control : Not Applicable measures taken on conservation of natural resources and consequently on the cost of production.*

PART - H

1. *Additional measures/investment : Please refer Annexure E proposal for environmental protection including abatement of pollution.*

PART - I**MISCELLANEOUS:**

Sl.	Any other particulars in respect of environmental protection and abatement of pollution.
1.	<p>World Earth Day 2024 on 22.04.2023. Awareness campaign on</p> <ul style="list-style-type: none"> • Environment sustainability, Protection measures to be adopted to save the environment • Significance & need of plantation • Discharging usage of single use plastic • Water conservation & Rainwater harvesting • Adopting Reduce, Reuse, Recycle method
2.	<p>Celebrated World Environment Day 5th June 2023, Adani Krishnapatnam Port actively participated in the green rally organized by the Andhra Pradesh Pollution Control Board - Nellore, in collaboration with the Nellore Municipal Corporation.</p> <ul style="list-style-type: none"> • The green rally commenced at VRC Grounds in Nellore and culminated at Shri Kasturbha Kalashetram Nellore. The event was honored by the M Hari Narayanan IAS, Collector and District Magistrate of SPSR Nellore, who graced the occasion as the chief guest and delivered a motivational speech to the participants. To raise awareness about the environment, the APPCB organized stage plays, and the district collector and magistrate flagged off the green rally. • Adani Krishnapatnam Port, in association with the Adani Foundation, conducted a sapling plantation drive in Krishnapatnam Village at various locations of the village, including in the houses of villagers. The functional heads from Adani Krishnapatnam Port and Adani Foundation guided kids in sapling plantation in the village at various places and raised awareness among the villagers about the significance of sapling plantation and the importance of avoiding products which are made of plastic. • An awareness session was conducted for field staff on plastic pollution and its effects on the environment. The session emphasized the significance of avoiding single-use plastics and explored alternative options for various purposes. The objective was to increase understanding among the staff about the detrimental impact of plastic on the environment and encourage them to adopt sustainable practices. The session aimed to raise awareness and promote the adoption of eco-friendly alternatives to single-use plastics.



	
	
<p>3 Celebrated World Oceans Day 8th June 2023, Adani Krishnapatnam Port has organized an Ocean cleanup program.</p> <ul style="list-style-type: none"> • Five fiber boats were flagged with adequate manpower, along with full safety measures and the required equipment, to clean up the ocean within the port limits. • In a mass gathering event in the evening session, employees made a pledge to avoid plastic products. In addition, awareness sessions were conducted by the Environment Cell.  	



4. Celebrated World Ozone Day, 16th September 2023, AKPL took a commitment pledge for ozone protection.

- 500 saplings planted at Dr. APJ Abdul Kalam Garden & other locations in port premises



5. AKPL has celebrated Global recycling day 2024 on 18th March, with the theme of " #Recycling Heroes".

- Promoted the importance of recycling
- Encouraged the employees to implement recycling & reuse at the house also to the extent possible.
- Discourage the utilization of single use plastic covers or things.
- Implement 3R's at home i.e. Reduce, Reuse, Recycle.



Awareness Campaign



Converted oil drums as waste collect



Plastic collection drive



- 6. Celebrated International Day of Forests on 21.03.2024. EHS team AKPL conducted "NATIVE TREE PLANTING CAMPAIGN" supporting local biodiversity.
 - On this occasion, AKPL organized a massive plantation programme and planted 2000 saplings involving all the departments.



- 7. Celebrated World Water Day on 22.03.2024 with theme of "Leveraging water for peace". The sustainable water management generates several benefits to individuals and communities, including:
 - Health
 - Food & energy security
 - Protection from natural disasters
 - Education & improved living standards and employment.
 - Economic development and a variety of ecosystem services.



8. **Promotion of Environment sustainability activities:**

Ganesh Chaturthi, distributed Clay Ganesh Idols among AKPL Employees & associates to promote environment sustainability.



ANNEXURE - A

Water Consumption details as per CTO:

Month	Water Consumption Details		
	Industrial Usage (KL)	Domestic Usage (KL)	Total KLD
23-Apr	70410	19780	90190
23-May	65420	19220	84640
23-Jun	64650	19450	84100
23-Jul	46500	18200	64700
23-Aug	53580	20100	73680
23-Sep	53250	19300	72550
23-Oct	51700	18700	70400
23-Nov	47700	17500	65200
23-Dec	31843.11	10220	42063
24-Jan	55885	13170	69055
24-Feb	60030	17560	77590
24-Mar	60820	18030	78850
Total Average Consumption (KLD)	1808.2	577.1	2385.3
Consent Qty/KLD	2350	650.0	3000

Month	During the Financial Year 2022-2023	During the Financial Year 2023-2024
STP Treated water (KL/Month)		
April-23	6539	6501
May -23	4437	6073
June-23	4692	5408
July- 23	4075	5654
August-23	6121	5904
September-23	7864	6016
October-23	5488	6082
November-23	6494	6322
December-23	5895	6419
January-24	6474	6359
February-24	6731	6637
March-24	7120	5941
Average KL/Month	5994.17	6109.67

Annexure – B

Cargo Handled at Adani Krishnapatnam Port – (April 2023 – March 2024)

Details of Cargo	Total Quantity (Kg)	
	Consented Quantity MMTPA	Commodities Handled in MMTPA
a) Coal	46	42.98
b) Iron Ore	8	5.05
c) General Cargo (Fertilizers, granites, Edible Oil and Lube oils, Others)	14	8.58
d) Liquid Cargo (POL, LNG, LPG, Chemical Products)	10	0.77
e) Container Cargo (MTEUsA)	2.0	0.11
Total	78 MMTPA + 2 MTEUsA	57.38 MMTPA+ 0.11MTeUs



Annexure – C**Water:**

AKPL being operated Sewage treatment facilities 500 KLD STP (1 X 300 KLD & 1 X 200 KLD) at CVR Amenities Complex 40 KLD STP near Admin. Building.

STP influent source	Treatment Technology	Quantity	Mode of final disposal
Domestic	Fluidized Bed Bio Reactor technique (FBBR)	540 KLD	Treated water is used for green belt within port premises.

The inlet and outlet wastewater are being monitored regularly as per the statutory regulations and the treated water is well within the statutory limits. The treated water is being used for green belt development only. AKPL is utilizing the Storm water for dust suppression purposes.

Air:

The facility has provided 3 no. of Continuous Ambient Air Quality Monitoring stations (CAAQMS) at CVR Amenities Complex, towards Thamminapatnam Village and towards Krishnapatnam Village for the parameter PM2.5, PM10, SO2, NOx, CO and NH3. The CAAQM Stations are calibrated by CPCB authorized agency.

Annexure – D

- I. E-Waste in **Form-III** : AKPL has submitted on 25.06.2024 for the financial year 2023-2024.
(Copy of Acknowledgement attached)
- II. Hazardous Waste in **Form-IV** : AKPL has submitted on 25.06.2024 for the financial year 2023-2024.
(Copy of Acknowledgement attached)
- III. Battery returns in **Form-VIII** : AKPL has submitted used on 25.06.2024 for the financial year 2023-2024.
(Copy of Acknowledgement attached)

ANNEXURE - E
COST OF ENVIRONMENTAL MEASURES FOR THE FY 2023-2024

S. No.	Facility Details	Description	Cost in Rs.
1	Dust Suppression system	DSS system Maintenance with including Vacuum sweeping machines & and Broom sweeping machines	7,962,638.00
2	STP maintenance	STP maintenance with includes Manpower and equipment repairing works.	1,002,200.00
3	500 KLD & 40 KLD power consumption cost	STP power consumption cost	2,642,623.00
4	Power consumption cost	Nakkala kaluva pump house power consumption cost	620,974.00
5	Water Cost - Nakkala Kaluva	Water consumption for Dust suppression system	1,746,360.00
6	Power consumption Cost	All Zones DSS pump houses Power consumption cost	668,329.00
7	Green belt Development	Sapling purchasing, JCB, Transport, Diesel, Fertilizers, Vehicle bills cost	7,890,389.00
8	South Truck Wheel wash facility	Establishment of South Truck Wheel wash facility	868,000.00
9	CAAQMS	Maintenance of existing 3 CAAQMS	339,148.00
10	Water Sampling & Analysis	Marine, Drinking, Sewage water sampling & analysis cost	900,000.00
		Total Amount	24,640,661.00



ANNEXURE B**Environmental measures in the Adani Krishnapatnam Port Limited**

- M/s Adani Krishnapatnam Port is a multi – purpose port located in the east coast of SPSR Nellore district of Andhra Pradesh. Krishnapatnam is a major economic gateway that caters to the land locked southern hinterland of India with multimodal connectivity.
- Commenced commercial operations in March 2009, as an all-Weather Port with Deep Draft Capable of Handling Capsize and Panamax Vessels, Round-The-Clock Navigation and provides Two Way Traffic for both Onshore & Offshore Logistics.
- AKPL is presently operating with 13 berths and with consented cargo handling capacity of 78 MMTPA for variety of Cargos of bulk and break bulk including coal, iron ore, Multi Cargo (Agri products, Slag, Limestone, Steel products etc.), Fertilizer, Gypsum, & 2MMTPA Container cargo with state-of-the-art cargo handling systems, mechanized storage facilities, railway sidings etc.,
- Out of which Berth No. N1 and N2 are Container berths, Berth No. N4, N6, N7, N8, NW1, NW2 & NW3 are fully mechanized berths.
- Berths N3, N5 & S4 are semi-mechanized berths. Berth no L4 is Liquid Jetty dedicated for POL products.



- AKPL is handling dry cargo such as coal, iron ore through mechanized system to the maximum extent possible and the Fertilizers, Food grains, Sugar, Cement & Cement Clinker, barites, Feldspar, Edible Oils are being handled through semi-mechanized system.
- Mechanical dust suppression system is provided at various critical points i.e., equipment (Hopper & reclaimer), hooded conveyor belts and the storage yards have been functioning well throughout the system. By using these measures, the port can mitigate all the dust that is being generated during the operations. The other berths are being used to handle other cargoes such as Project cargo, fertilizer (Urea), Sugar etc.
- The Pollution Control System is implemented, as a part of project, to mitigate the dust pollution, State of Art water sprinkling system at various locations. Around 30 people are working daily to operate the DSS.

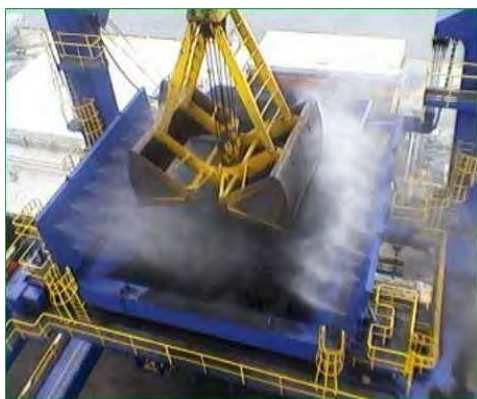
A handwritten signature in blue ink, consisting of stylized initials and a long horizontal stroke.

- The DSS comprises of canons supported by electrical motors and operated at regular intervals to cover water fog all over cargo stacks and other areas. The water is sprayed from various points by water cannons at pressure of about 2-4 Kg/cm² to form a mist over the cargo stacks and other places and the mist attracts the dust to settle it down without spreading along the wind.
- Provided hooded conveyor for transferring dusty cargo to nearby industries like APGENCO, SEMBCORP and Penna Industries. Established Direct pipelines to nearby edible oil cluster industries to pump edible oil from vessels to industries.
- Operating 16 no. of hydraulic broom sweeping machines for cleaning of berths, backup and roads. Operating 2 nos vacuum sweeping machines to control dust on roads, berths & pavements.

1. Mechanized Operations:

The State of art mechanical dust suppression system is provided at various critical points i.e., equipment (Hopper & reclaimers), hooded conveyor belts and the storage yards have been functioning well throughout the system. Ensuring these measures, the Port can mitigate all the dust that is being generated during the operations. The other berths are being used to handle other cargos such as Project cargo, fertilizer (Urea), Sugar etc.

- AKPL using Grab ship unloaders and conveyers with water sprinkling system for handling coal from berths to storage yards and to nearby power plants which reduced dust generation, compared to dumpers for transporting coal.
- AKPL operating silo facility with telescopic chute system for loading the cargo in railway wagons. After those entire rakes covered with tarpaulin covers to avoid the fugitive spillages.
- Established fully mechanized and closed operations associated with mist sprinkling system to prevent fugitive emissions.
- Provided Dust suppression systems at Hoppers, discharge/feeding points of belt conveyors at each transfer tower.
- Provided and operating Stacker cum re-claimers for loading and unloading the coal. Dedicated mist sprinklers are provided to prevent fugitive emissions.



Mist Spraying Sytem



Silo Facility with teloscopic chute system

DS



Mechanized Infrastructure



Grab ship unloaders and Hoppers, discharge/feeding points

A handwritten signature in blue ink, consisting of stylized letters and a long horizontal stroke.

2. Dust Suppression – Mechanical Dust Suppression System (MDSS) :

AKPL has Established Mechanical Dust Suppression System with 248 no's of water cannons at stack yards for dust suppression. The water cannons at 50 -100 metres intervals which covers a horizontal radius of approx. 50 meters and reaches a height upto 15 metres and rotates in 180 degrees.

The water is sprayed from various points by water cannons at pressure of about 2-4 Kg/cm² to form a mist over the cargo stacks and other places and the mist attracts the dust to settle it down without spreading along the wind.



Dust suppression through Sprinkling system in AKPL

Dust suppression through Tankers

Water sprinkling is being carried out on the general cargo berth and in other areas viz. Roads and yards through water tankers of 26 nos. to arrest the dust pollution causing by the vehicular movement in the port. AKPL is spending around Rs. 7 lakhs per month on an average towards water charges and maintenance.



Deployed 12 Nos. of Truck mounted sprinklers for roads and transit areas & stockpiles.

Dust suppression system through Atomizers

AKPL being operated 4 heavy duty atomizers as innovative technology in dust suppression system.

These Atomizers helpful to efficient water distribution in uniform spray patterns through pressurized nozzles. It reduced water consumption also.



As part of sustainable development activities, using these special devices ensure to prevent the dust pollution and to ensure the pollution parameters are within the permissible limits stipulated by statutory departments.

3. Truck/Wagon Tarpaulin Covering facilities:

AKPL established 14 No. of truck tarpaulin covering stations at various locations within the Port to facilitate and ensure all the outgoing cargos by Trucks are covered with tarpaulin.

AKPL ensuring that the tarpaulin is covered in all sides of the truck and tightly tied with rope to avoid transit spillages till the truck reaches the destination.



DS

Ensuring all the outbound cargo rakes are covered with tarpaulin and tightened with rope to avoid transit spillages.



4. Cargo covered with tarpaulin:

AKPL has been maintaining the tarpaulin covering on the cargos to the extent possible to avoid fugitive emissions.



5. Deployment of Road Sweeping Machines:

2 No of Heavy-Duty Vacuum Sweeping Machines are being deployed at operational areas and all internal roads.

Provided 8 No. tractor mounted hydraulic broom sweeping machines for cleaning the roads and jetty areas.



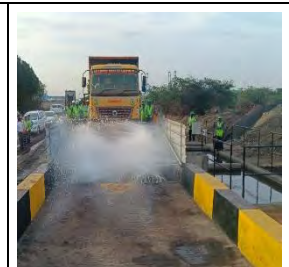
6. Truck Tyre washing facilities:

Provided 2 no. of automatic sensor-based truck/tyre washing facilities at north side and south side of the port to ensure of all the outgoing vehicles to avoid dust passage on to outside roads.

Truck tyre washing facility wheel washing facility is established with advanced technology which having cleaning water recycling & reusing system with oil skimmer facility.



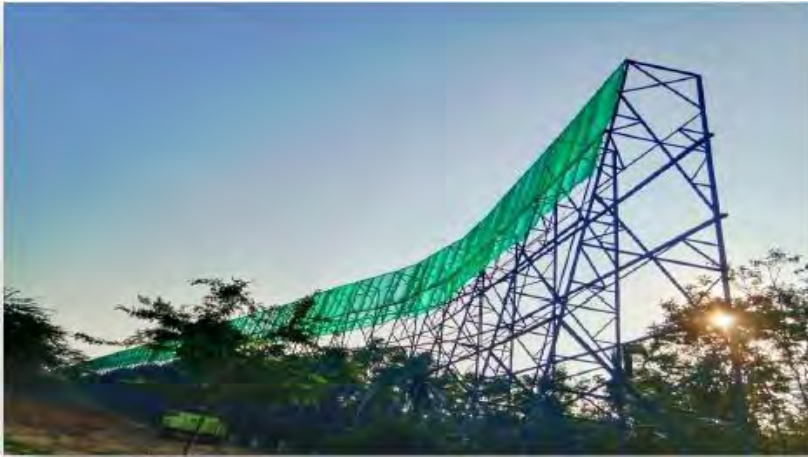
North side of the Port



South side of the Port

7. Specific measures towards Habitation:

Erected wind breaking walls towards Krishnapatnam village and Arketpalem to prevent any dust transfer to habitation and a thick green belt developed supporting to the wind breaking wall to arrest the dust emissions to the villages.

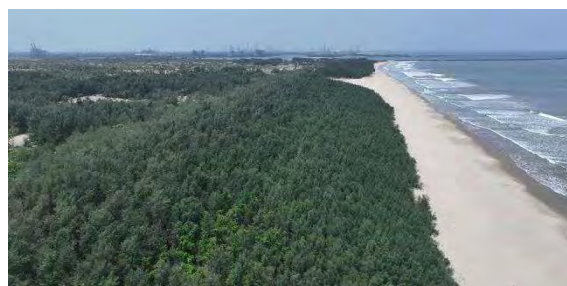
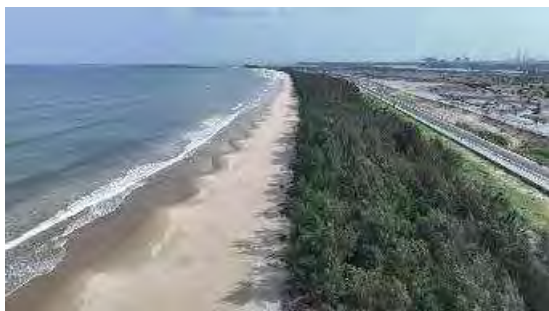


- Provided hooded conveyor for transferring dusty cargo.



AKPL maintained 100 m width of plantation towards port periphery and 20 m width around the coal stack yard zones as per the CTO condition.





8. Environmental Monitoring Program in AKPL

As per the statutory guidelines AKPL appointed an authorized 3rd party agency, for monitoring of the environmental parameters of the port as well as nearby villages such as Krishnapatnam village, Gopala Puram Village, Chalivendram village and Thamminapatnam Village areas.

A. Ambient Air Quality

Operating 3 No. of CAAQM stations of Beta Ray Attenuation technology to measure the parameters NO_x, NH₃, SO₂, CO, PM 10, PM 2.5, at the following locations and data connected to APPCB website.

Station code	Location	Direction w.r.t. Project site	Coordinates Latitude & Longitudes	Distance from Port
CAAQMS - 1	At CVR Building	WNW	14°16'33.45"N 80° 5'54.46"E	1.4 KM
CAAQMS - 2	At Thamminapatnam Village	S	14°13'39.25"N 80° 6'5.84"E	2.5 KM
CAAQMS -3	At Krishnapatnam Village	NNW	14°16'47.69"N 80° 6'23.17"E	3.0 KM

		
Station - 1 CVR Amenities Complex	Station - 2 Thamminapatnam Village	Station - 3 Krishnapatnam Village

The Port appointed an NABL accredited SV Enviro Laboratories to monitor the air quality and submitting the Monitoring reports to APPCB on monthly basis along with the Compliance reports & to MoEF & CC on Half-Yearly basis.



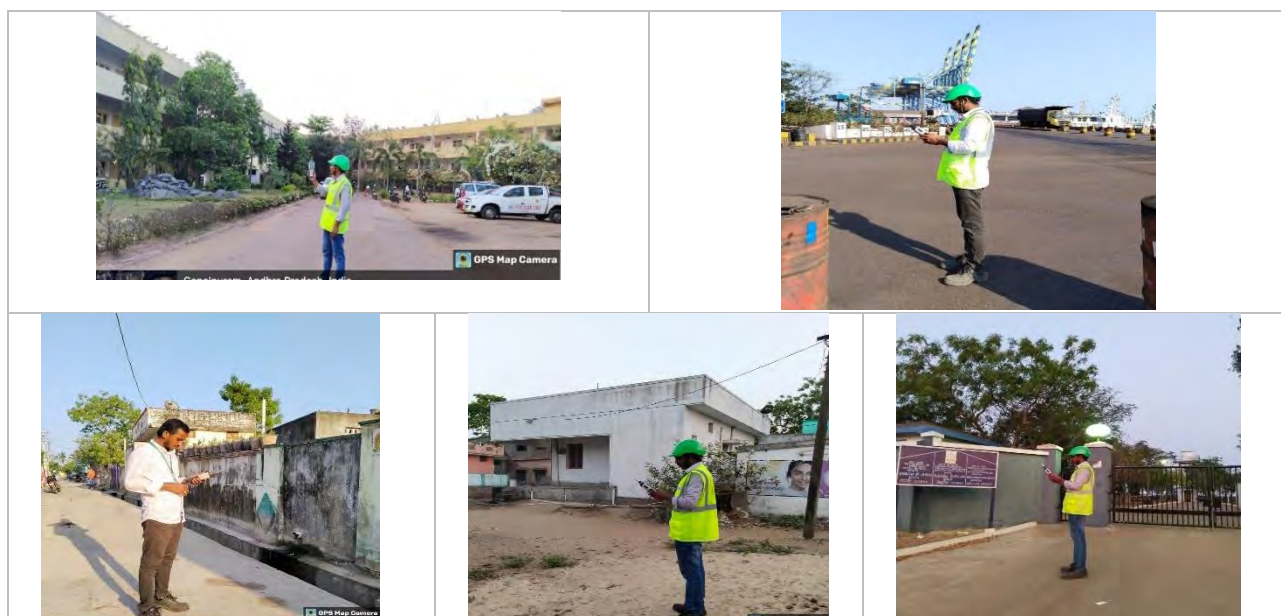
Station code	Location	Direction w.r.t. Project site	Coordinates Latitude & Longitudes	Distance from Port
A1	At Zero Point	W	14°16'2.44"N 80° 4'26.66"E	2.5 KM
A2	At Thamminapatnam Village	S	14°13'39.25"N 80° 6'5.84"E	2.5 KM
A3	At CVR Building	WNW	14°16'33.45"N 80° 5'54.46"E	1.4 KM
A4	At Gopalpuram Village	NW	14°16'41.22"N 80° 6'24.46"E	2.5 KM
A5	At Chalivendram	WNW	14°16'38.40" 80°5'11.84"	2.5 KM
A6	At Krishnapatnam	NNW	14°16'47.69"N 80° 6'23.17"E	3.0 KM
A7	At Light House	SW	14°17'37.33" 80°7'49.46"	2.5 KM

B. Noise Monitoring

Noise monitoring is being carried out as per the statutory regulations for the seven locations and the reports are well within the statutory limits and the same are being submitted to the APPCB monthly.

Station code	Location	Direction w.r.t. Project site	Coordinates Latitude & Longitudes	Distance from Port
A1	At Zero Point	W	14°16'2.44"N 80° 4'26.66"E	2.5 KM

A2	At Thamminapatnam Village	S	14°13'39.25"N 80° 6'5.84"E	2.5 KM
A3	At CVR Building	WNW	14°16'33.45"N 80° 5'54.46"E	1.4 KM
A4	At Gopalpuram Village	NW	14°16'41.22"N 80° 6'24.46"E	2.5 KM
A5	At Chalivendram	WNW	14°16'38.40" 80°5'11.84"	2.5 KM
A6	At Krishnapatnam	NNW	14°16'47.69"N 80° 6'23.17"E	3.0 KM
A7	At Light House	SW	14°17'37.33" 80°7'49.46"	2.5 KM



C. Ground Water quality monitoring

Ground water quality monitoring is being carried out on half yearly monthly basis as per the statutory regulations for the Krishnapatnam Port premises and reports are within the statutory limits and the same are being submitted to the APPCB along with 6 months report.

Location	Direction w.r.t. Project site	Coordinates	Distance from Port
South side of the Port	S	14°13'39.25"N 80° 6'5.84"E	2.5 KM
Port side	WNW	14°16'33.45"N 80° 5'54.46"E	1.4 KM
At Gopalpuram Village	NW	14°16'41.22"N 80° 6'24.46"E	2.5 KM
At Krishnapatnam	NNW	14°16'47.69"N 80° 6'23.17"E	3.0 KM



D. Marine Water / Sediment monitoring

The marine water and sediment quality monitoring is being carried out weekly basis of tidal sampling for the Four locations as

1. Port entrance (Approach Channel)
2. Turning Circle
3. Coal berth
4. Reclamation area (Mutable)

S.No	Location	Coordinates
1	Port entrance (Approach Channel)	14°14'53.66"N 80° 8'48.42"E
2	Turning Circle	14°14'49.35"N 80° 7'45.64"E
3	Coal berth	14°15'2.92"N 80° 7'42.16"E
4	Reclamation area (Mutable)	14°14'57.36"N 80° 8'17.74"E



Map Showing Marine sample collection Points

Physical, chemical and biological parameters were analysed for water as well as for sediment to assess the quality and the same is being submitted to the APPCB. The reports indicate that the waters are not having any noticeable contamination.



9. Environment Sustainability Measures:

a. Commitment towards Environment Sustainability:

AKPL is surrounded by human habitation and many major industries viz., Thermal Power Plants, Cement Industries, Edible Oil Industries etc., All the mitigation measures are being implemented & adopted to control the dust emissions.

AKPL is continuously evaluating the environmental impacts during port operations and will promote long-term environmental sustainability by continuing all the mitigation measures to prevent the dust pollution.

The funds allocated and utilized for Environmental Management for the last three years as below:

Item	Year 2021-22 (in Rs.Cr.)	Year 2022- 23 (in Rs.Cr.)	Year 2023 -24 (in Rs.Cr.)
Budget Allocated	9,33,80,083	9,02,55,160	9,64,83,786
Budget Utilized	6,83,10,659	6,16,76,369	9,48,68,251

b. Weather & Meteorological monitoring:

Installed Weather station on the top of Port Operation Control for weather forecasting & meteorological data generation.



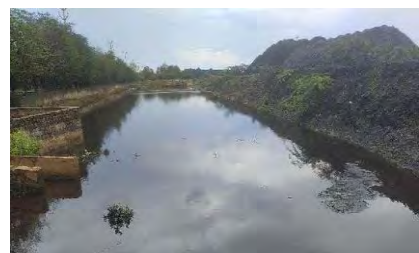
c. Water Conservation Measures:

Rainwater harvesting pits are provide across the port premises for recharging the ground water.

Settling ponds provided at yards for collection of yards runoff and the supernatant water is being used for dust suppression.

Rainwater harvesting pits around the buildings are being maintained.

Rainwater drains are being maintained periodically & pre-monsoon season to avoid stagnation & free flow of water and the water is using for dust suppression to the possible extent.



10. Sewage Treatment Plants:

STP Domestic sewage collected from office buildings from different locations of Port is being treated with FBBR technology in STPs of 500 KLD & 40 KLD and being used for greenbelt development.



500 KLD STP



40 KLD STP

The STP inlet & outlet water is being analyzed through a 3rd party agency on fortnight basis and as per the analysis reports, the values are meeting the prescribed standards of APPCB.



[Handwritten signature]

Inlet and outlet sample collection

11. Waste Management in AKPL:

- **Hazardous waste (Waste oil)** – as per the CFO & HWA of APPCB, AKPL is permitted to generate & dispose of waste oil including bilge oil. AKPL is quantifying the waste oil and disposing to SPCB authorized Waste oil recyclers through APEMCL portal and submitting the details in Form – 4 to SPCB regularly. The latest submission is on 25.06.2024 for the Year 2023-2024.



E – Waste is being collected and disposed to SPCB authorized E-waste recyclers and submitting the details in Form – 3 to SPCB regularly. The latest submission is on 25.06.2024 for the Year 2023-2024.

Plastic waste is being collected and disposed of to SPCB authorized plastic waste recycling units.



- **Bio-Medical Waste** – Occupational Health Centre (OHC) to provided First Aid facility to the victims and generating very less quantity of Bio-Medical Waste. M/s. SS Bio Care an authorized Bio-medical waste Treatment Facility, Safe Collection, Transportation & disposal of properly segregated and packed BMW as per the norms.

Segregation of BMW through Bins



- **Battery Waste** is being collected and disposed of to SPCB authorized Battery waste recycling units.
-
- **Solid waste** Provided collection bins at about 120 locations for collection of dry & wet solid & domestic waste. Developed bin collection system with dedicated collection vehicles and manpower. Segregating recyclable at the source and being recycled through vendors. Biodegradable food waste is sent to the pig farms.

DS



12. Details of Green belt in Adani Krishnapatnam Port

Development of greenbelt is a continuous process in AKPL. Up to Financial year 2023-2024, the total plantation in the Port is about 196.25 Ha.

- Green cover needs to reduce the pollution levels
- Improve the standard of Ambient Air Quality
- Meet the statutory requirements & compliance.
- Reduce the carbon emissions

The environment department is fixing its own targets besides statutory requirements and achieving the targets from time to time.

The land available in AKPL is mostly sand dunes and salt pans which are not supportive for plantation.

AKPL developed a good plantation with saplings suitable for the available land and achieved good results.

Due to the Michaung Cyclone occurred in December 2024, the existing greenbelt was damaged badly. To achieve good and dense plantation, AKPL adopted Miyawaki plantation



Damaged Nursey due to Michaung cyclone



Present status of Nursery after cyclone

High Density Plantation (Miyawaki)

Miyawaki afforestation / plantation involves several different types of native plants closely just to form a Green Wall and a completely chemical free forest in an organic way that sustains itself, supports local biodiversity, and attracts birds and insects. In 'Miyawaki' forests, the trees grow more quickly and absorb more CO2 than plantations grown for timber.

Its benefits include lowering temperature, making soil nutritious, supporting local wildlife and sequestration of carbon.

With the spirit of Miyawaki type plantation, AKPL continued further plantation in Miyawaki method in the other locations, viz., LC3 location and Chalivendram boundary.

Below details show the periodical development of Greenbelt during the last 3 years:
Table

AKPL: Periodical Development of Greenbelt during the last 3 years				
S.no	Financial year	Target	Achieved	Survival
1	2021-2022	100000	103890	85 %
2	2022-2023	100000	103242	89 %
3	2023-2024	200000	220953	89%
	TOTAL	400000	428085	

Nursery:

AKPL Established an exclusive nursery in an extent of 4.5 Acres within the Port premises and maintaining about 1.9 L to 2.0 L saplings of Avenue, Ornamental & Fruit bearing species viz., Badam, Tabebuia argentea, Polyalthia longifolia, Spathodea campanulata, Samanea saman, Mangifera indica, Psidium guava, Bougainvillea, Pheonix palm, Ixora chinensis rosea, Pandanus Veitchi, Cocos Nucifera, Allamanda nerifolia, Bougainvillea Pedilanthus, Cassia fistula, Peltophorum, Cassia siamea, Delonix regia, Hibiscus rosa-sinensis, Clitoria ternatea, Casuarina Equisetifolia, etc.

The captive nursery played a significant role in restoration / reforestation after series of cyclones.

Photographs of Nursery & Greenbelt:



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AKPL: Green belt photographs



13. Mangrove Conservation In AKPL:

- Protecting and conserving the existing mangrove areas with suitable barricading, erection of display boards and ensuring the tidal flow. As a part of Phase I EC compliance, an area of 9 acres (3.64 ha) of mangroves are being conserved in the port areas since its inception.
- Mangrove restoration is to be considered as a viable option for enhancing the green belt cover.
- The proponent shall continue to restore mangroves in the suggested sites with


**"MANGROVE IS NOT JUST A TREE
MANGROVE IS LIFE."**

DS

<p>species like <i>Avicennia marina</i>, a resilient and common species along the creek.</p> <ul style="list-style-type: none"> ➤ Afforestation of mangrove cover along the creeks shall be continued and intensified. ➤ Raise awareness in the local community about the importance of mangroves and their importance. ➤ Measures should be taken for desilting the creeks for easy tidal water flow which will enhance the natural flushing leading to healthy growth of mangroves. ➤ Illegal cutting of mangroves during the construction and operation phase of port should be prevented. 	
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14. New Initiatives for effective Environment & Sustainability:

<ul style="list-style-type: none"> • Completed Electrification of Cranes & Compressor from diesel Cranes • Usage of EV 4 – wheelers for Employee transportation • Started plantation program 'Each One Own One Plant' with "Geotagging". • Converted 9 no's Liebherr cranes from diesel operated to Electrically operated. • Converted 1 diesel operated oil compressor to electrically operated. • All Marine tugs provided with shore power 100% while at jetty. • Established hooded conveyor belts to mitigate dust emission into the atmosphere. • Provided Fire hydrant system for Wagon loading station. • Provided facilities for truck tarpaulin covering stations of 14 nos. at various transit locations to facilitate and ensure tarpaulin coverage to all the outgoing cargo trucks. • Provided facilities for Railway Rake to ensure tarpaulin coverage to all the outgoing cargo rakes. 	 <p style="text-align: center;">EV vehicle</p>
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D

adani

Ports and
Logistics

Letter No AKPL/EHS/APPCB/ 2024-030

Date:20.06.2024

To

The Environmental Engineer,
A.P. Pollution Control Board
Regional Office
SPSR Nellore



Dear Sir,

Sub:- Adani Krishnapatnam Port Limited – E-Waste Annual Returns for the FY 2023-2024 – Form – 3 – Submitted – Reg.

Ref:- CFO & HWA order no APPCB/VJA/NLR/11344/CFO/HO/2019 dated 11.11.2022 valid up to 31.08.2027

@@@

In compliance with the conditions stipulated in CTO & HWA orders vide reference cited above we are herewith submitting the Annual Returns of Generation, Storage & Disposal of E – Waste for the FY year 2023 – 2024 in Form- 3 as per the E-Waste (Management) Rules, 2016 and amendments thereof.

Kindly acknowledge receipt of the same.

Yours sincerely,


Dr. D. Jyothi
Vice President - Environment

Encl: a/a

Adani Krishnapatnam Port Ltd
(Formerly Adani Krishnapatnam Port Company Ltd)
PO Bag No 1, Muthukur, Akividu,
SPSR Nellore District, 524344
Andhra Pradesh, India
CIN: L26203AP1996PLDC23529

Tel - 91 861 237999
Fax - 91 861 237 7046
info@adani.com
www.adaniports.com

Registered Office: Adani Corporate House, Shanti Nagar, K.R. Vishwanath Devi Circle, S. G. Highway, Chodhwar, Ahmedabad - 382421, Gujarat, India

FORM-3

[See rules 4(5), 5(5), 8(6), 9(4), 10(8), 11(9), 13 (1) (xi), 13(2)(v), 13(3)(vii) and 13(4)(v)]

FORM FOR FILING ANNUAL RETURNS

[To be submitted by producer or manufacturer or refurbisher or dismantler or recycler by 30th day of June following the financial year to which that return relates].

Quantity in Metric Tons (MT) and numbers

1	Name and address of the producer or manufacturer or refurbisher or dismantler or recycler	Adani Krishnapatnam Port Limited, Krishnapatnam (V), Muthukur (M) - 524344 SPSR Nellore Dist., Andhra Pradesh				
2	Name of the authorized person and complete address with telephone and fax numbers and e-mail address	Dr. D. Jyothi - Vice President – Env. Adani Krishnapatnam Port Limited, Krishnapatnam (P), Muthukur (M) - 524344 SPSR Nellore Dist., Andhra Pradesh Phone : 9441046788 jyothi@gangavaram.com akpl.ehs@adani.com				
3	Total quantity of e-waste collected or channelized to recyclers or dismantlers for processing during the year for each category of electrical and electronic equipment listed in the Schedule I (Attach list) by PRODUCERS	Nil* -				
	Sl. No.	Sale Order No.	Date	E - Waste Type	Quantity MT.	
	1.	-----	-----	-----	-----	
	Total					
	Details of the above			TYPE	QUANTITY	No.
3(A)*	BULK CONSUMERS: Quantity of e- waste			NIL	NIL	NIL
3(B)*	REFURBISHERS: Quantity of e-waste:			X	X	X
3(C)*	DISMANTLERS:			X	X	X
	i. Quantity of e-waste processed (Code wise);					
	ii. Details of materials or components recovered and sold;					
	iii. Quantity of e-waste sent to recycler;					
	iv. Residual quantity of e-waste sent to Treatment, Storage and Disposal Facility.					

3(D) *	RECYCLERS: i. Quantity of e-waste processed (Code wise); ii. Details of materials recovered and sold in the market; iii. Details of residue sent to Treatment, Storage and Disposal Facility.	X	X	X
4	Name and full address of the destination with respect to 3(A)-3(D) above	--		
5	Type and quantity of materials segregated or recovered from e-waste of different codes as applicable to 3(A)-3(D)	Type ---	Quantity ---	

Enclose the list of recyclers to whom e-waste has been sent for recycling.

Place: Krishnapatnam (P),
Muthukuru (M), SPSR Nellore Dist.
Andhra Pradesh

Date: 20.06.2024


Dr. D. Jyothi
Vice President - Environment

Signature of the authorized person

Note:-

- 1 * Strike off whichever is not applicable
- 2 Provide any other information as stipulated in the conditions to the authorizer
- 3 In case filing on behalf of multiple regional offices, Bulk Consumers and Producers need to add extra rows to 1 & 3(A) with respect to each office.

Letter No AKPL/EHS/APPCB/ /2024-29

Date:20.06.2024

To

The Environmental Engineer,
A.P. Pollution Control Board
Regional Office
SPSR Nellore



Dear Sir,

Sub:- Adani Krishnapatnam Port Limited - Hazardous Waste Annual Returns for the FY 2023-2024 - Form - 4 - Submitted - Reg.

Ref:- CFO & HWA order no APPCB/AJA/NLR/11344/CFO/HO/2019 dated 11.11.2022 valid up to 31.08.2027

@@@

In compliance with the conditions stipulated in CTO & HWA orders vide reference cited above we are herewith submitting the Annual Returns of Generation, Storage & Disposal of Hazardous Waste (Waste/Used Oil) for the year 2023 - 2024 in Form- 4 as per the Hazardous and other Waste (Management and Transboundary Movement) Rules, 2016 (HOWM Rules, 2016) and amendments thereof.

Kindly acknowledge receipt of the same.

Yours sincerely,

Dr. D. Jyothi
Vice President - Environment

Encl: a/a

Adani Krishnapatnam Port Ltd
Formerly Krishnapatnam Port Company Ltd
PO Bag No 7, Bilsachur Mandal,
SPSA Nellore District 524344
Aurang, Prakash, India
CIN: L45203AP7996PLD023529

Tel: +91 861 2379999
Fax: +91 861 237 7046
info@adani.com
www.adaniports.com

FORM 4
[See rules 6 (5), 13 (B), 16(6) and 20(2)]
FORM FOR FILING ANNUAL RETURNS

[To be submitted to state pollution control board by 30th day of June of every year for the preceding period April to March]

- Sl. No : Information
1. Name and address of facility : Adani Krishnapatnam Port Limited,
 Krishnapatnam (P),
 Muthukur (M) - 524344
 SPSR Nellore Dist.
 Andhra Pradesh
2. Authorization No. and Date of Issue : CTO & HWA Order No.
 APPCB/VJA/NLR/11344/CFO/HO/2019
 11.11.2022 valid up to 31.08.2027
3. Name of the authorized person and full Address with telephone, fax number and e-mail : Dr. D. Jyothi – Vice President – Env.
 Adani Krishnapatnam Port Limited,
 Krishnapatnam (P),
 Muthukur (M) - 524344
 SPSR Nellore Dist.
 Phone: 9441046788
jyothi@gangavaram.com
akpl.ehs@adani.com
4. Production during the year : Cargo Handled April 2023 to March 2024
 Cargo handled 57.39MMT+0.11MTEUsA
 is (Coal, Iron ore, General Cargo, and Container cargo)

Part A. To be filled by hazardous waste generators

1. Total quantity of waste generated :
 Category wise

Previous Storage	Generation 2022 -23	Disposal 2022-23	Stored	Generation 2023 -24	Disposal 2023-24	Stored
Quantity in MT						
0.5	509.41	505.26	4.15	353.827	351.72	2.107*

2. Quantity dispatched :
- Waste Oil /Used Oil (Port equipment generated) : 31.54 MT**
- i. To disposal facility : N.A.
- ii. To recycler or co-processors or pre-processor : 31.54 MT
- To disposal facility through APEMCL : M/s. Jyothi Lubricants,
 Plot No.185, Kondapalli, Vijayawada,
 Andhra Pradesh.

Waste / Used Oil sludge generated : 320.18 MT
in ships

To disposal facility through : **88.06 MT** to
APEMCL M/s. Supreme petro products
S.F. No225/1A2J,225/1A2K,
Matharpakkam Road, Eguvarpalayam(V)
,Gummidipoondi (Tal),
Tiruvallur District,Tamil Nadu State,

: **232.12 MT** to

M/s Sri Balaji Petrochem
No 52/ 2B, Chinnazambad Village,
Vijayapuram Mandal,Chittoor District,
Andhra Pradesh

3. Total to recycler or co-processors : **351.72 MT**
or pre-processor

4. Quantity utilized In-house, if any- : **2.107 * MT**

5. Quantity In storage at the end of : **NIL**
the year

Part B. To be filled by Treatment, Storage and disposal facility operators

1. Total quantity received - :

2. Quantity in stock at the beginning :
of the year

3. Quantity treated :

4. Quantity disposed in landfills as :
such and after treatment.

5. Quantity incinerated (if applicable) :

6. Quantity processed other than :
specified above-

7. Quantity in storage at end of the :
year

Part C. To be filled by recycler or co-processors or other users

1. Quantity of the waste received :
during the year-

i) Domestic Sources

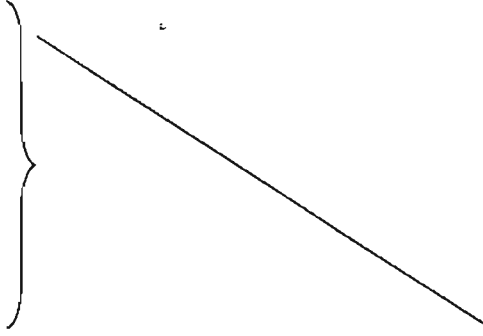
ii) Imported (if applicable)

2. Quantity in Stock at the :
beginning of year -


3. Quantity recycled or co- :
processed or used-

4. Quantity of product dispatched :
(wherever applicable) -

5. Quantity of waste generated- :
6. Quantity of waste disposed- :
7. Quantity re-exported (wherever applicable) :
8. Quantity in the storage at the end of the year- :



Date: 20.06.2024
Place: Krishnapatnam (P),
Muthukur (M), SPSR Nellore Dist.


Dr. D. Jyothi
Vice President - Environment
Signature of the Occupier or
Operator of the Disposal facility

FORM 10
[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's Name & Mailing Address (Including PhoneNo. and email)	Name : Adani Krishnapatnam Port Limited Address: P.O. Bag No:1, Muthukur Mandal, SPSR Nellore Dist., A.P. - 524344, Phone No : 9866192789 Email: venugopalreddy.g@adani.com																
2	Sender's Authorisation No:	APPCB/VJA/NLR/11344/CFO/HO/2019 11/11/2022																
3	Manifest Document No:	86897																
4	Transporter Name & Mailing Address: (Including PhoneNo. and email):	Name: Jyothi Lubricants Address: plot no 185, IDA ,Kondapalli ,Vijayawada Phone No : 8300244004 Email : jyothilubricants@gmail.com																
5	Type of Vehicle:	Truck																
6	Vehicle Registration No:	AP18TJ2619																
7	Receiver's Name & mailing Address, (Including PhoneNo. and Email:	Name : Jyothi Lubricants Address: Plot No. 185-B, IDA,IDA, Kondapalli (V)brahimpatnam (M),Krishna Dist., Phone No : 8300244004 Email: jyothilubricants@gmail.com																
8	Receiver's Authorisation No:	K-1125/PCB/RO-VJACFOW&A/2017-																
9	Waste Description:	a) HW - Recyclable Waste - 5.1 Used or spent oil, Waste oil/Used oil from D.G Sets, Vehicles, dredgers and other machinery																
10	Total Quantity No. of Containers:	a) 10 - Tonnes, 1 Container																
11	Physical Form:	a) Liquid																
12	Special Handling Instructions & Additional Information:	Use PPE, use hand glove, use helmet																
13	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.																
	Name and stamp:	Signature: Acknowledged from IP: 163.118.195.98 <table border="1" style="float: right; text-align: center; border-collapse: collapse;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>3</td><td>0</td><td>0</td><td>8</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	3	0	0	8	2	0	2	3
D	D	M	M	Y	Y	Y	Y											
3	0	0	8	2	0	2	3											
14	Transporter acknowledgement of receipt of Wastes:																	
	Name and stamp:	Signature: Acknowledged from IP: 152.58.197.78 <table border="1" style="float: right; text-align: center; border-collapse: collapse;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>3</td><td>1</td><td>0</td><td>8</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	3	1	0	8	2	0	2	3
D	D	M	M	Y	Y	Y	Y											
3	1	0	8	2	0	2	3											
15	Receiver's certification for receipt of hazardous and other waste:																	
	Name and stamp:	Signature: Acknowledged from IP: 117.255.80.4 <table border="1" style="float: right; text-align: center; border-collapse: collapse;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>0</td><td>2</td><td>0</td><td>9</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	0	2	0	9	2	0	2	3
D	D	M	M	Y	Y	Y	Y											
0	2	0	9	2	0	2	3											

FORM 10
[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's Name & Mailing Address (Including PhoneNo. and email)	Name : Adani Krishnapatnam Port Limited Address: P.O. Bag No:1, Muthukur Mandal, SPSR Nellore Dist., A.P. - 524344, Phone No : 9866192789 Email: venugopalreddy.g@adani.com																						
2	Sender's Authorisation No:	APPCB/VJA/NLR/11344/CFO/HO/2019 11/11/2022																						
3	Manifest Document No:	87521																						
4	Transporter Name & Mailing Address: (Including PhoneNo. and email):	Name: Jyothi Lubricants Address: plot no 185, IDA ,Kondapalli ,Vijayawada Phone No : 6300244004 Email : jyothilubricants@gmail.com																						
5	Type of Vehicle:	Truck																						
6	Vehicle Registration No:	AP16TJ2619																						
7	Receiver's Name & mailingAddress, (Including PhoneNo. and Email):	Name : Jyothi Lubricants Address: Plot No. 186-B, IDA,IDA, Kondapalli (V)brahimpatnam (M),Krishna DisL, Phone No : 6300244004 Email: jyothilubricants@gmail.com																						
8	Receiver's Authorisation No:	K-1125/PCB/RO-VJACFOW&A/2017-																						
9	Waste Description:	a) HW - Recyclable Waste - 5.1 Used or spent oil, Waste oil/Used oil from D.G Sets, Vehicles, dredgers and other machinery																						
10	Total Quantity No. of Containers:	a) 4 - Tonnes, 17 Drum																						
11	Physical Form:	a) Liquid																						
12	Special Handling Instructions & Additional Information:	Use PPE while loading, unloading & Transit handling																						
13	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.																						
	Name and stamp:	Signature: Acknowledged from IP: 163.116.195.116					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>0</td><td>4</td><td>0</td><td>9</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	0	4	0	9	2	0	2	3
D	D	M	M	Y	Y	Y	Y																	
0	4	0	9	2	0	2	3																	
14	Transporter acknowledgement of receipt of Wastes:																							
	Name and stamp:	Signature: Acknowledged from IP: 117.255.48.44					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>0</td><td>4</td><td>0</td><td>9</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	0	4	0	9	2	0	2	3
D	D	M	M	Y	Y	Y	Y																	
0	4	0	9	2	0	2	3																	
15	Receiver's certification for receipt of hazardous and other waste:																							
	Name and stamp:	Signature: Acknowledged from IP: 117.213.209.107					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>0</td><td>5</td><td>0</td><td>9</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	0	5	0	9	2	0	2	3
D	D	M	M	Y	Y	Y	Y																	
0	5	0	9	2	0	2	3																	

FORM 10
[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's Name & Mailing Address (including PhoneNo. and email)	Name : Adani Krishnapatnam Port Limited Address: P.O. Bag No:1, Muthukur Mandal, SPSR Nellore Dist., A.P. - 524344. Phone No : 8868192789 Email: venugopalreddy.g@adani.com																						
2	Sender's Authorisation No:	APPCB/VJA/NLR/11344/CFO/HO/2019 11/11/2022																						
3	Manifest Document No:	120579																						
4	Transporter Name & Mailing Address: (including PhoneNo. and email):	Name: Coastal waste management project unit 2 - Repur Address: Coastal Waste Management Project (Unit-2) (A Subsidiary of M/s. Ramky Enviro Engineers Ltd.,) Govt.Veterinary polytechnic college opposite Road, Sy. No. 20-2P1, 20-2P2, 20-2P3, Raviguntapalli Village of Bojjanapalli Grampanchayat, Repur Mandal, SPSR Nellore District-524408, AP Phone No : 9154252960 Email : madhubabu@ramky.com																						
5	Type of Vehicle:	Special Vehicle																						
6	Vehicle Registration No:	AP39TK9054																						
7	Receiver's Name & mailing Address, (including PhoneNo. and Email):	Name : Coastal Waste Management Project (Unit-2) - Incinerator Address: Govt.Veterinary polytechnic college opposite Road, Sy. No. 20- 2P1, 20-2P2, 20-2P3, Raviguntapalli Village of Bojjanapalli Grampanchayat, Repur Mandal,SPSR Nellore District-524408, AP Phone No : 9154252951 Email: madhubabu@reastelnabillity.com																						
8	Receiver's Authorisation No:	APPCB/JH-IV/HWM/CFE/CWMP-NLR/2017																						
9	Waste Description:	a) HW - Incinerable Waste - 3.3 Sludge and filters contaminated with oil, Sludge and filters contaminated with oil																						
10	Total Quantity No. of Containers:	a) 1.12 - Tonnes, 1 Container																						
11	Physical Form:	a) Solid																						
12	Special Handling Instructions & Additional Information:	Use PPE while loading, unloading & Transit handling																						
13	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.																						
	Name and stamp:	Signature: Acknowledged from IP: 163.116.195.113					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>0</td><td>5</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	0	5	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y																	
0	5	0	3	2	0	2	4																	
14	Transporter acknowledgement of receipt of Wastes:																							
	Name and stamp:	Signature: Acknowledged from IP: 152.58.234.218					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>0</td><td>5</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	0	5	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y																	
0	5	0	3	2	0	2	4																	
15	Receiver's certification for receipt of hazardous and other waste:																							
	Name and stamp:	Signature: Acknowledged from IP: 47.247.120.234					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>0</td><td>7</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	0	7	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y																	
0	7	0	3	2	0	2	4																	

FORM 10
[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's Name & Mailing Address (Including PhoneNo. and email)	Name : Adani Krishnapatnam Port Limited Address: P.O. Bag No:1, Muthukur Mandal, SPSR Nellore Dist., A.P. - 524344, Phone No : 9866192789 Email: venugopireddy.g@adani.com																						
2	Sender's Authorisation No:	APPCB/VJA/NLR/11344/CFO/HO/2019 11/11/2022																						
3	Manifest Document No:	121000																						
4	Transporter Name & Mailing Address: (Including PhoneNo. and email):	Name: Jyothi Lubricants Address: plot no 185, IDA, Kondapalli, Vijayawada Phone No : 6300244004 Email : jyothilubricants@gmail.com																						
5	Type of Vehicle:	Truck																						
6	Vehicle Registration No:	AP16TJ2619																						
7	Receiver's Name & mailing Address, (Including PhoneNo. and Email):	Name : Jyothi Lubricants Address: Plot No. 188-B, IDA, IDA, Kondapalli (V)brahmapatnam (M), Krishna Dist., Phone No : 6300244004 Email: jyothilubricants@gmail.com																						
8	Receiver's Authorisation No:	K-1125/PCB/RO-VJACFOM&A/2017-																						
9	Waste Description:	a) HW - Recyclable Waste - 5.1 Used or spent oil, Waste oil/Used oil from D.G Sets, Vehicles, dredgers and other machinery																						
10	Total Quantity No. of Containers:	a) 8.42 - Tonnes, 39 Drum																						
11	Physical Form:	a) Oily																						
12	Special Handling Instructions & Additional Information:	Use PPE while loading, unloading & Transit handling																						
13	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.																						
	Name and stamp:	Signature: Acknowledged from IP: 163.116.195.119					<table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>0</td><td>8</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	0	8	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y																	
0	8	0	3	2	0	2	4																	
14	Transporter acknowledgement of receipt of Wastes:																							
	Name and stamp:	Signature: Acknowledged from IP: 152.59.192.30					<table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>0</td><td>8</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	0	8	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y																	
0	8	0	3	2	0	2	4																	
15	Receiver's certification for receipt of hazardous and other waste:																							
	Name and stamp:	Signature: Acknowledged from IP: 152.59.192.202					<table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>0</td><td>8</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	0	8	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y																	
0	8	0	3	2	0	2	4																	

FORM 10

- [See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's Name & Mailing Address (including PhoneNo. and email)	Name : Adani Krishnapatnam Port Limited Address: P.O. Bag No:1, Muthukur Mandal, SPSR Nellore Dist., A.P. - 524344, Phone No : 9888192789 Email: venugopalreddy.g@adani.com																
2	Sender's Authorisation No:	APPCB/VJA/NLR/11344/CFO/HO/2019 11/11/2022																
3	Manifest Document No:	121777																
4	Transporter Name & Mailing Address: (including PhoneNo. and email):	Name: Jyothi Lubricants Address: plot no 185, IDA, Kondapalli, Vijayawada Phone No : 6300244004 Email : jyothilubricants@gmail.com																
5	Type of Vehicle:	Truck																
6	Vehicle Registration No:	AP16TJ2619																
7	Receiver's Name & mailing Address, (including PhoneNo. and Email:	Name : Jyothi Lubricants Address: Plot No. 186-B, IDA, IDA, Kondapalli (V)Ibrehimpatnam (M), Krishna Dist., Phone No : 6300244004 Email: jyothilubricants@gmail.com																
8	Receiver's Authorisation No:	K-1125/PCB/RO-VJACFOW&A/2017-																
9	Waste Description:	a) HW - Recyclable Waste - 5.1 Used or spent oil, Waste oil/Used oil from D.G Sets, Vehicles, dredgers and other machinery																
10	Total Quantity No. of Containers:	a) 8 - Tonnes, 38 Drum																
11	Physical Form:	a) Oily																
12	Special Handling Instructions & Additional Information:	Use PPE while loading, unloading & Transit handling																
13	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.																
	Name and stamp:	Signature: Acknowledged from IP: 183.116.219.32																
		<table border="1"> <thead> <tr> <th>D</th> <th>D</th> <th>M</th> <th>M</th> <th>Y</th> <th>Y</th> <th>Y</th> <th>Y</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3</td> <td>0</td> <td>3</td> <td>2</td> <td>0</td> <td>2</td> <td>4</td> </tr> </tbody> </table>	D	D	M	M	Y	Y	Y	Y	1	3	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
1	3	0	3	2	0	2	4											
14	Transporter acknowledgement of receipt of Wastes:																	
	Name and stamp:	Signature: Acknowledged from IP: 117.213.222.239																
		<table border="1"> <thead> <tr> <th>D</th> <th>D</th> <th>M</th> <th>M</th> <th>Y</th> <th>Y</th> <th>Y</th> <th>Y</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3</td> <td>0</td> <td>3</td> <td>2</td> <td>0</td> <td>2</td> <td>4</td> </tr> </tbody> </table>	D	D	M	M	Y	Y	Y	Y	1	3	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
1	3	0	3	2	0	2	4											
15	Receiver's certification for receipt of hazardous and other waste:																	
	Name and stamp:	Signature: Acknowledged from IP: 152.59.107.136																
		<table border="1"> <thead> <tr> <th>D</th> <th>D</th> <th>M</th> <th>M</th> <th>Y</th> <th>Y</th> <th>Y</th> <th>Y</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4</td> <td>0</td> <td>3</td> <td>2</td> <td>0</td> <td>2</td> <td>4</td> </tr> </tbody> </table>	D	D	M	M	Y	Y	Y	Y	1	4	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
1	4	0	3	2	0	2	4											

FORM 10
[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's Name & Mailing Address (Including PhoneNo. and email)	Name : Adani Krishnapatnam Port Limited Address: P.O. Bag No:1, Muthukur Mandal, SPSR Nellore Dist., A.P. - 524344, Phone No : 9886192789 Email: venugopalreddy.g@adani.com																						
2	Sender's Authorisation No:	APPCB/VJA/NLR/11344/CFO/HO/2019 11/11/2022																						
3	Manifest Document No:	69645																						
4	Transporter Name & Mailing Address: (Including PhoneNo. and email):	Name: Thirupathi oil company unit 1 Address: M/s. Thirupathi Oil Company Unit-1, S.F.No. 129/2, Venmaniyaloor(V), Tindivanam (Tal), Villupuram District, Tamil Nadu State, TN-TN-TAMIL NADUmeu ip Phone No : 8918444215 Email : toc580028@gmail.com																						
5	Type of Vehicle:	Tanker																						
6	Vehicle Registration No:	TN18E4399																						
7	Receiver's Name & mailing Address, (including PhoneNo. and Email:	Name : Thirupathi Oil Company Unit-1 Address: M/s. Thirupathi Oil Company Unit-1, S.F.No. 129/2, Venmaniyaloor(V), Tindivanam (Tal), Villupuram District, Tamil Nadu State Phone No : 8919444215 Email: toc580028@gmail.com																						
8	Receiver's Authorisation No:	180518936980																						
9	Waste Description:	a) HW - Recyclable Waste - 3.1 cargo residue, washing water and sludge containing oil, Oil containing cargo residue washing water and sludge from ships																						
10	Total Quantity No. of Containers:	a) 20.6 - Tonnes, 1 Container																						
11	Physical Form:	a) Sludge																						
12	Special Handling Instructions & Additional Information:	Use PPE while loading, unloading & Transit handling																						
13	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.																						
	Name and stamp:	Signature: Acknowledged from IP: 27.58.221.217					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>2</td><td>4</td><td>0</td><td>5</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	2	4	0	5	2	0	2	3
D	D	M	M	Y	Y	Y	Y																	
2	4	0	5	2	0	2	3																	
14	Transporter acknowledgement of receipt of Wastes:																							
	Name and stamp:	Signature: Acknowledged from IP: 157.51.35.117					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>2</td><td>4</td><td>0</td><td>5</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	2	4	0	5	2	0	2	3
D	D	M	M	Y	Y	Y	Y																	
2	4	0	5	2	0	2	3																	
15	Receiver's certification for receipt of hazardous and other waste:																							
	Name and stamp:	Signature: Acknowledged from IP: 157.51.35.215					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>2</td><td>6</td><td>0</td><td>5</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	2	6	0	5	2	0	2	3
D	D	M	M	Y	Y	Y	Y																	
2	6	0	5	2	0	2	3																	

FORM 10

[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's Name & Mailing Address (Including PhoneNo. and email)	Name : Adani Krishnapatnam Port Limited Address: P.O. Bag No:1, Muthukur Mandal, SPSR Nellore Dist., A.P. - 524344, Phone No : 9886192789 Email: venugopalreddy.g@adani.com																
2	Sender's Authorisation No:	APPCB/JA/NLR/11344/CFO/HO/2018 11/11/2022																
3	Manifest Document No:	71239																
4	Transporter Name & Mailing Address: (Including PhoneNo. and email):	Name: Supreme petro products Address: S.F.No225/1A2J,225/1A2K, Matharpakkam Road, Eguvarpalayam(V), Gummidipoondi (Tal), Tiruvallur District, Tamil Nadu State, TN-TN-TAMIL NADU Phone No : 9444431111 Email : supremepetroproducts@gmail.com																
5	Type of Vehicle:	Tanker																
6	Vehicle Registration No:	TN20AW4455																
7	Receiver's Name & mailing Address, (Including PhoneNo. and Email:	Name : Supreme Petro Products (Waste Oil) Address: M/a. Supreme Petro Products(Waste Oil) S.F.No225/1A2J,225/1A2K, Matharpakkam Road, Eguvarpalayam(V), Gummidipoondi (Tal), Tiruvallur District, Tamil Nadu State Phone No : 9444431111 Email: supremepetroproducts@gmail.com																
8	Receiver's Authorisation No:	2408236379833																
9	Waste Description:	a) HW - Recyclable Waste - 5.1 Used or spent oil, Waste oil from Ships																
10	Total Quantity No. of Containers:	a) 12.58 - Tonnes, 1 Container																
11	Physical Form:	a) Oily																
12	Special Handling Instructions & Additional Information:	Use PPE, use hand glove, use helmet																
13	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.																
	Name and stamp:	Signature: Acknowledged from IP: 112.133.252.82 <table border="1"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>0</td><td>3</td><td>0</td><td>8</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	0	3	0	8	2	0	2	3
D	D	M	M	Y	Y	Y	Y											
0	3	0	8	2	0	2	3											
14	Transporter acknowledgement of receipt of Wastes:																	
	Name and stamp:	Signature: Acknowledged from IP: 48.37.194.222 <table border="1"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>0</td><td>3</td><td>0</td><td>8</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	0	3	0	8	2	0	2	3
D	D	M	M	Y	Y	Y	Y											
0	3	0	8	2	0	2	3											
15	Receiver's certification for receipt of hazardous and other waste:																	
	Name and stamp:	Signature: Acknowledged from IP: 48.37.194.222 <table border="1"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>0</td><td>3</td><td>0</td><td>8</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	0	3	0	8	2	0	2	3
D	D	M	M	Y	Y	Y	Y											
0	3	0	8	2	0	2	3											

FORM 10
[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's Name & Mailing Address (Including PhoneNo. and email)	Name : Adani Krishnapatnam Port Limited Address: P.O. Bag No:1, Muthukur Mandal, SPSR Nellore Dist., A.P. - 524344, Phone No : 9866192789 Email: venugopalreddy.g@adanl.com																						
2	Sender's Authorisation No:	APPCB/VJA/NLR/11344/CFO/HO/2019 11/11/2022																						
3	Manifest Document No:	71649																						
4	Transporter Name & Mailing Address: (Including PhoneNo. and email):	Name: Supreme petro products Address: S.F.No225/1A2J,225/1A2K, Metherpakkem Road, Eguvarpelayam(V) ,Gummidipoondi (Tal), Tiruvallur District,Tamil Nadu State, TN-TN-TAMIL NADU Phone No : 9444431111 Email : supremepetroproducts@gmail.com																						
5	Type of Vehicle:	Tanker																						
6	Vehicle Registration No:	TN45BE6517																						
7	Receiver's Name & mailingAddress, (Including PhoneNo. and Email:	Name : Supreme Petro Products (Waste Oil) Address: M/s. Supreme Petro Products(Waste Oil) S.F.No225/1A2J,225/1A2K, Matherpakkem Road, Eguvarpalayam(V) ,Gummidipoondi (Tal), Tiruvallur District,Tamil Nadu State Phone No : 9444431111 Email: supremepetroproducts@gmail.com																						
8	Receiver's Authorisation No:	2408236379833																						
9	Waste Description:	a) HW - Recyclable Waste - 5.1 Used or spent oil, Waste oil from Ships																						
10	Total Quantity No. of Containers:	a) 19.06 - Tonnes, 1 Container																						
11	Physical Form:	a) Oily																						
12	Special Handling Instructions & Additional Information:	Use PPE while loading, unloading & Transit handling																						
13	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.																						
	Name and stamp:	Signature: Acknowledged from IP: 163.116.195.119					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>0</td><td>6</td><td>0</td><td>6</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	0	6	0	6	2	0	2	3
D	D	M	M	Y	Y	Y	Y																	
0	6	0	6	2	0	2	3																	
14	Transporter acknowledgement of receipt of Wastes:																							
	Name and stamp:	Signature: Acknowledged from IP: 49.37.194.222					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>0</td><td>6</td><td>0</td><td>6</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	0	6	0	6	2	0	2	3
D	D	M	M	Y	Y	Y	Y																	
0	6	0	6	2	0	2	3																	
15	Receiver's certification for receipt of hazardous and other waste:																							
	Name and stamp:	Signature: Acknowledged from IP: 49.37.194.222					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>0</td><td>7</td><td>0</td><td>6</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	0	7	0	6	2	0	2	3
D	D	M	M	Y	Y	Y	Y																	
0	7	0	6	2	0	2	3																	

FORM 10
[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's Name & Mailing Address (including PhoneNo. and email)	Name : Adani Krishnapatnam Port Limited Address: P.O. Bag No:1, Muthukur Mandal, SPSR Nellore Dist., A.P. - 524344, Phone No : 9888192789 Email: venugopalreddy.g@adani.com																
2	Sender's Authorisation No:	APPCB/VJA/NLR/11344/CFO/HO/2019 11/11/2022																
3	Manifest Document No:	105782																
4	Transporter Name & Mailing Address: (including PhoneNo. and email):	Name: SRI BALAJI PETROCHEM Address: No 52/ 2B, Chinnazambad village, Vijayapuram Mandal, Chittoor District, Andhra Pradesh -517588 Phone No : 8925842243 Email : gm@sbpetrochem.in																
5	Type of Vehicle:	Truck																
6	Vehicle Registration No:	TN05AU4927																
7	Receiver's Name & mailing Address, (including PhoneNo. and Email):	Name : Sri Balaji Petrochem Address: M/a. Sri Balaji Petrochem, Sy.No.52/2B, 52/3B, 52/4B, Chinnazambada (V), Vijayapuram (M), Chittoor District, Andhra Pradesh. Phone No : 8925842240 Email: sribalajipetrochem@gmail.com																
8	Receiver's Authorisation No:	Order No. CTR - 1747/APPCB/ZO-KNL/CTO & HWM/2023 Date:24.07.2023																
9	Waste Description:	a) HW - Recyclable Waste - 5.1 Used or spent oil, Waste oil from Ships																
10	Total Quantity No. of Containers:	a) 21.88 - Tonnes, 1 Container																
11	Physical Form:	a) Oily																
12	Special Handling Instructions & Additional Information:	Use PPE while loading, unloading & Transit handling																
13	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.																
	Name and stamp:	Signature: Acknowledged from IP: 163.116.195.115 <table border="1" style="float: right; text-align: center; border-collapse: collapse;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>2</td><td>1</td><td>1</td><td>2</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	2	1	1	2	2	0	2	3
D	D	M	M	Y	Y	Y	Y											
2	1	1	2	2	0	2	3											
14	Transporter acknowledgement of receipt of Wastes:																	
	Name and stamp:	Signature: Acknowledged from IP: 103.99.110.218 <table border="1" style="float: right; text-align: center; border-collapse: collapse;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>2</td><td>1</td><td>1</td><td>2</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	2	1	1	2	2	0	2	3
D	D	M	M	Y	Y	Y	Y											
2	1	1	2	2	0	2	3											
15	Receiver's certification for receipt of hazardous and other waste:																	
	Name and stamp:	Signature: Acknowledged from IP: 103.99.110.218 <table border="1" style="float: right; text-align: center; border-collapse: collapse;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>2</td><td>2</td><td>1</td><td>2</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	2	2	1	2	2	0	2	3
D	D	M	M	Y	Y	Y	Y											
2	2	1	2	2	0	2	3											

FORM 10
[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's Name & Mailing Address (including PhoneNo. and email)	Name : Adani Krishnapatnam Port Limited Address: P.O. Bag No:1, Muthukur Mandal, SPSR Nellore Dist., A.P. - 524344, Phone No : 9866192789 Email: venugopalreddy.g@adani.com																						
2	Sender's Authorisation No:	APPCB/VJA/NLR/11344/CFO/HO/2019 11/11/2022																						
3	Manifest Document No:	106095																						
4	Transporter Name & Mailing Address: (including PhoneNo. and email):	Name: SRI BALAJI PETROCHEM Address: No 52/ 2B, Chinnazambad village, Vijayapuram Mandal, Chittoor District, Andhra Pradesh -517586 Phone No : 8925842243 Email : gm@sbpetrochem.in																						
5	Type of Vehicle:	Tanker																						
6	Vehicle Registration No:	TN05AD5538																						
7	Receiver's Name & mailing Address, (including PhoneNo. and Email):	Name : Sri Balaji Petrochem Address: W/a. Sri Balaji Petrochem, Sy.No.52/2B, 52/3B, 52/4B, Chinnazambada (V), Vijayapuram (M), Chittoor District, Andhra Pradesh. Phone No : 8925842240 Email: sribalajipetrochem@gmail.com																						
8	Receiver's Authorisation No:	Order No. CTR - 1747/APPCB/ZO-KNU/CTO &HWM/2023 Date:24.07.2023																						
9	Waste Description:	a) HW - Recyclable Waste - 5.1 Used or spent oil, Waste oil from Ships																						
10	Total Quantity No. of Containers:	a) 24.72 - Tonnes, 1 Container																						
11	Physical Form:	a) Oily																						
12	Special Handling Instructions & Additional Information:	Use PPE while loading, unloading & Transit handling																						
13	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.																						
	Name and stamp:	Signature: Acknowledged from IP: 163.116.185.113					<table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>2</td><td>3</td><td>1</td><td>2</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	2	3	1	2	2	0	2	3
D	D	M	M	Y	Y	Y	Y																	
2	3	1	2	2	0	2	3																	
14	Transporter acknowledgement of receipt of Wastes:																							
	Name and stamp:	Signature: Acknowledged from IP: 103.99.110.218					<table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>2</td><td>3</td><td>1</td><td>2</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	2	3	1	2	2	0	2	3
D	D	M	M	Y	Y	Y	Y																	
2	3	1	2	2	0	2	3																	
15	Receiver's certification for receipt of hazardous and other waste:																							
	Name and stamp:	Signature: Acknowledged from IP: 157.48.130.250					<table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>2</td><td>4</td><td>1</td><td>2</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	2	4	1	2	2	0	2	3
D	D	M	M	Y	Y	Y	Y																	
2	4	1	2	2	0	2	3																	

FORM 10
[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's Name & Mailing Address (Including PhoneNo. and email)	Name : Adani Krishnapatnam Port Limited Address: P.O. Bag No:1, Muthukur Mandal, SPSR Nellore Dist., A.P. - 524344, Phone No : 9886192789 Email: venugopalreddy.g@adani.com																						
2	Sender's Authorisation No:	APPCB/VJA/NLR/11344/CFO/HO/2019 11/11/2022																						
3	Manifest Document No:	106097																						
4	Transporter Name & Mailing Address: (Including PhoneNo. and email):	Name: SRI BALAJI PETROCHEM Address: No 52/ 2B, Chinnazambad village, Vijayapuram Mandal, Chittoor District, Andhra Pradesh -517588 Phone No : 8925842243 Email : gm@sbpetrochem.in																						
5	Type of Vehicle:	Tanker																						
6	Vehicle Registration No:	TN05AR1728																						
7	Receiver's Name & mailing Address, (including PhoneNo. and Email):	Name : Sri Balaji Petrochem Address: M/s. Sri Balaji Petrochem, Sy.No.52/2B, 52/3B, 52/4B, Chinnazambada (V), Vijayapuram (M), Chittoor District, Andhra Pradesh. Phone No : 8925842240 Email: sribalajipetrochem@gmail.com																						
8	Receiver's Authorisation No:	Order No. CTR - 1747/APPCB/ZO-KNL/CTO &HWM/2023 Date:24.07.2023																						
9	Waste Description:	a) HW - Recyclable Waste - 5.1 Used or spent oil, Waste oil from Ships																						
10	Total Quantity No. of Containers:	a) 22.74 - Tonnes, 1 Container																						
11	Physical Form:	a) Oily																						
12	Special Handling Instructions & Additional Information:	Use PPE while loading, unloading & Transit handling																						
13	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.																						
	Name and stamp:	Signature: Acknowledged from IP: 163.116.195.113					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>2</td><td>3</td><td>1</td><td>2</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	2	3	1	2	2	0	2	3
D	D	M	M	Y	Y	Y	Y																	
2	3	1	2	2	0	2	3																	
14	Transporter acknowledgement of receipt of Wastes:																							
	Name and stamp:	Signature: Acknowledged from IP: 103.89.110.218					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>2</td><td>3</td><td>1</td><td>2</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	2	3	1	2	2	0	2	3
D	D	M	M	Y	Y	Y	Y																	
2	3	1	2	2	0	2	3																	
15	Receiver's certification for receipt of hazardous and other waste:																							
	Name and stamp:	Signature: Acknowledged from IP: 157.48.130.250					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>2</td><td>4</td><td>1</td><td>2</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	2	4	1	2	2	0	2	3
D	D	M	M	Y	Y	Y	Y																	
2	4	1	2	2	0	2	3																	

FORM 10

[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's Name & Mailing Address (Including PhoneNo. and email)	Name : Adani Krishnapatnam Port Limited Address: P.O. Bag No:1, Mulhukur Mandal, SPSR Nellore Dist., A.P. - 524344, Phone No : 9886192789 Email: vanugopalreddy.g@adani.com																
2	Sender's Authorisation No:	APPCB/VJA/NLR/11344/CFO/HO/2019 11/11/2022																
3	Manifest Document No:	109588																
4	Transporter Name & Mailing Address: (including PhoneNo. and email):	Name: SRI BALAJI PETROCHEM Address: No 52/ 2B, Chinnazambad village, Vijayapuram Mandal, Chittoor District, Andhra Pradesh -517586 Phone No : 8925842243 Email : gm@srbpetrochem.in																
5	Type of Vehicle:	Tanker																
6	Vehicle Registration No:	TN05AR2616																
7	Receiver's Name & mailing Address, (Including PhoneNo. and Email):	Name : Sri Balaji Petrochem Address: M/s. Sri Balaji Petrochem, Sy.No.52/2B, 52/3B, 52/4B, Chinnazambada (V), Vijayapuram (M), Chittoor District, Andhra Pradesh. Phone No : 8925842240 Email: sribalajipetrochem@gmail.com																
8	Receiver's Authorisation No:	Order No. CTR - 1747/APPCB/ZO-KNL/CTO & HWM/2023 Date:24.07.2023																
9	Waste Description:	a) HW - Recyclable Waste - 5.1 Used or spent oil, Waste oil from Ships																
10	Total Quantity No. of Containers:	a) 18.4 - Tonnes, 1 Container																
11	Physical Form:	a) Oily																
12	Special Handling Instructions & Additional Information:	Use PPE while loading, unloading & Transit handling																
13	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.																
	Name and stamp:	Signature: Acknowledged from IP: 163.116.195.118 <table border="1" style="float: right;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>1</td><td>2</td><td>0</td><td>1</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	1	2	0	1	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
1	2	0	1	2	0	2	4											
14	Transporter acknowledgement of receipt of Wastes:																	
	Name and stamp:	Signature: Acknowledged from IP: 103.88.110.218 <table border="1" style="float: right;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>1</td><td>2</td><td>0</td><td>1</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	1	2	0	1	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
1	2	0	1	2	0	2	4											
15	Receiver's certification for receipt of hazardous and other waste:																	
	Name and stamp:	Signature: Acknowledged from IP: 106.78.88.133 <table border="1" style="float: right;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>1</td><td>3</td><td>0</td><td>1</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	1	3	0	1	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
1	3	0	1	2	0	2	4											

FORM 10
[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's Name & Mailing Address (Including PhoneNo. and email)	Name : Adani Krishnapatnam Port Limited Address: P.O. Bag No:1, Muthukur Mandal, SPSR Nellore Dist., A.P. - 524344, Phone No : 9886192789 Email: venugopalsreddy.g@adani.com																
2	Sender's Authorisation No:	APPCB/VJA/NLR/11344/CFO/HO/2019 11/11/2022																
3	Manifest Document No:	108881																
4	Transporter Name & Mailing Address: (Including PhoneNo. and email):	Name: SRI BALAJI PETROCHEM Address: No 52/ 2B, Chinnazambad village, Vijayapuram Mandal, Chittoor District, Andhra Pradesh -517586 Phone No : 8925842243 Email : gm@sbpetrochem.in																
5	Type of Vehicle:	Tanker																
6	Vehicle Registration No:	TN18BL7801																
7	Receiver's Name & Mailing Address, (Including PhoneNo. and Email):	Name : Sri Balaji Petrochem Address: M/s. Sri Balaji Petrochem, Sy.No.52/2B, 52/3B, 52/4B, Chinnazambada (V), Vijayapuram (M), Chittoor District, Andhra Pradesh. Phone No : 8925842240 Email: sribalajipetrochem@gmail.com																
8	Receiver's Authorisation No:	Order No. CTR - 1747/APPCB/ZO-KNL/CTO &HWM/2023 Date:24.07.2023																
9	Waste Description:	a) HW - Recyclable Waste - 5.1 Used or spent oil, Waste oil from Shlps																
10	Total Quantity No. of Containers:	a) 27.8 - Tonnes, 1 Container																
11	Physical Form:	a) Oily																
12	Special Handling Instructions & Additional Information:	Use PPE while loading, unloading & Transit handling																
13	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.																
14	Name and stamp:	Signature: Acknowledged from IP: 163.116.195.96 <table border="1" style="float: right; text-align: center; border-collapse: collapse;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>1</td><td>2</td><td>0</td><td>1</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	1	2	0	1	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
1	2	0	1	2	0	2	4											
14	Transporter acknowledgement of receipt of Wastes:	Signature: Acknowledged from IP: 103.88.110.218 <table border="1" style="float: right; text-align: center; border-collapse: collapse;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>1</td><td>2</td><td>0</td><td>1</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	1	2	0	1	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
1	2	0	1	2	0	2	4											
15	Receiver's certification for receipt of hazardous and other waste:	Signature: Acknowledged from IP: 106.78.88.133 <table border="1" style="float: right; text-align: center; border-collapse: collapse;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>1</td><td>3</td><td>0</td><td>1</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	1	3	0	1	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
1	3	0	1	2	0	2	4											

FORM 10
[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's Name & Mailing Address (Including PhoneNo. and email)	Name : Adani Krishnapatnam Port Limited Address: P.O. Bag No:1, Muthukur Mandal, SPSR Nellore Dist., A.P. - 524344, Phone No : 9866192789 Email: venugopalreddy.g@adani.com																
2	Sender's Authorisation No:	APPCB/VJA/NLR/11344/CFO/HO/2019 11/11/2022																
3	Manifest Document No:	111699																
4	Transporter Name & Mailing Address: (Including PhoneNo. and email):	Name: SRI BALAJI PETROCHEM Address: No 52/ 2B, Chinnazambad village, Vijayapuram Mandal, Chittoor District, Andhra Pradesh -517586 Phone No : 8925842243 Email : gm@sbpetrochem.in																
5	Type of Vehicle:	Tanker																
6	Vehicle Registration No:	TN20BM3762																
7	Receiver's Name & mailing Address, (Including PhoneNo. and Email:	Name : Sri Balaji Petrochem Address: M/s. Sri Balaji Petrochem, Sy.No.52/2B, 52/3B, 52/4B, Chinnazambada (V), Vijayapuram (M), Chittoor District, Andhra Pradesh, Phone No : 8925842240 Email: sribalajipetrochem@gmail.com																
8	Receiver's Authorisation No:	Order No. CTR - 1747/APPCB/ZO-KNL/CTO &HWM/2023 Date:24.07.2023																
9	Waste Description:	a) HW - Recyclable Waste - 5.1 Used or spent oil, Waste oil from Ships																
10	Total Quantity No. of Containers:	a) 19 - Tonnes, 1 Container																
11	Physical Form:	a) Oily																
12	Special Handling Instructions & Additional Information:	Use PPE while loading, unloading & Transit handling																
13	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.																
	Name and stamp:	Signature: Acknowledged from IP: 163.116.219.60																
		<table border="1"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>2</td><td>4</td><td>0</td><td>1</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	2	4	0	1	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
2	4	0	1	2	0	2	4											
14	Transporter acknowledgement of receipt of Wastes:																	
	Name and stamp:	Signature: Acknowledged from IP: 103.99.110.218																
		<table border="1"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>2</td><td>4</td><td>0</td><td>1</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	2	4	0	1	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
2	4	0	1	2	0	2	4											
15	Receiver's certification for receipt of hazardous and other waste:																	
	Name and stamp:	Signature: Acknowledged from IP: 103.99.110.218																
		<table border="1"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>1</td><td>2</td><td>0</td><td>6</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	1	2	0	6	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
1	2	0	6	2	0	2	4											

FORM 10
[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's Name & Mailing Address (Including PhoneNo. and email)	Name : Adani Krishnapatnam Port Limited Address: P.O. Bag No:1, Muthukur Mandal, SPSR Nellore Dist., A.P. - 524344. Phone No : 9888192789 Email: venugopalreddy.g@adani.com																						
2	Sender's Authorisation No:	APPCB/VJA/NLR/11344/CFO/HO/2019 11/11/2022																						
3	Manifest Document No:	113265																						
4	Transporter Name & Mailing Address: (Including PhoneNo. and email):	Name: Supreme petro products Address: S.F.No225/1A2J,226/1A2K, Matharpakkam Road, Eguvarpalayam(V) ,Gummidiipoondi (Tal), Tiruvallur District,Tamil Nadu State, TN-TN-TAMIL NADU Phone No : 9444431111 Email : supremepetroproducts@gmail.com																						
5	Type of Vehicle:	Tanker																						
6	Vehicle Registration No:	TN20AW4455																						
7	Receiver's Name & mailingAddress. (including PhoneNo. and Email:	Name : Supreme Petro Products (Waste Oil) Address: M/s. Supreme Petro Products(Waste Oil) S.F.No225/1A2J,225/1A2K, Matharpakkam Road, Eguvarpalayam(V) ,Gummidiipoondi (Tal), Tiruvallur District,Tamil Nadu State Phone No : 9444431111 Email: supremepetroproducts@gmail.com																						
8	Receiver's Authorisation No:	2408236379833																						
9	Waste Description:	a) HW - Recyclable Waste - 5.1 Used or spent oil, Waste oil from Ships																						
10	Total Quantity No. of Containers:	a) 21.3 - Tonnes, 1 Container																						
11	Physical Form:	a) Oily																						
12	Special Handling Instructions & Additional Information:	Use PPE while loading, unloading & Transit handling																						
13	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.																						
	Name and stamp:	Signature: Acknowledged from IP: 163.118.195.122					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>3</td><td>1</td><td>0</td><td>1</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	3	1	0	1	2	0	2	4
D	D	M	M	Y	Y	Y	Y																	
3	1	0	1	2	0	2	4																	
14	Transporter acknowledgement of receipt of Wastes:																							
	Name and stamp:	Signature: Acknowledged from IP: 49.47.241.91					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>3</td><td>1</td><td>0</td><td>1</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	3	1	0	1	2	0	2	4
D	D	M	M	Y	Y	Y	Y																	
3	1	0	1	2	0	2	4																	
15	Receiver's certification for receipt of hazardous and other waste:																							
	Name and stamp:	Signature: Acknowledged from IP: 49.47.243.201					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>1</td><td>6</td><td>0</td><td>2</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	1	6	0	2	2	0	2	4
D	D	M	M	Y	Y	Y	Y																	
1	6	0	2	2	0	2	4																	

FORM 10
[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's Name & Mailing Address (Including PhoneNo. and email)	Name : Adani Krishnapatnam Port Limited Address: P.O. Bag No:1, Muthukur Mandal, SPSR Nellore Dist., A.P. - 524344, Phone No : 9888192789 Email: venugopalreddy.g@adani.com																						
2	Sender's Authorisation No:	APPCB/VJA/NLR/11344/CFO/HO/2019 11/11/2022																						
3	Manifest Document No:	114378																						
4	Transporter Name & Mailing Address: (Including PhoneNo. and email):	Name: SRI BALAJI PETROCHEM Address: No 52/ 2B, Chinnazambad village, Vijayapuram Mandal,Chittoor District, Andhra Pradesh -517588 Phone No : 8925842243 Email : gm@sbspetrochem.in																						
5	Type of Vehicle:	Tanker																						
6	VehicleRegistration No:	TN04AJ1189																						
7	Receiver's Name & mailingAddress, (Including PhoneNo. and Email):	Name : Sri Balaji Petrochem Address: M/s. Sri Balaji Petrochem, Sy.No.52/2B, 52/3B, 52/4B, Chinnazambada (V), Vijayapuram (M), Chittoor District, Andhra Pradesh. Phone No : 8925842240 Email: sribalajipetrochem@gmail.com																						
8	Receiver's Authorisation No:	Order No. CTR - 1747/APPCB/ZO-KNL/CFO &HWM/2023 Date:24.07.2023																						
9	Waste Description:	a) HW - Recyclable Waste - 5.1 Used or spent oil, Waste oil from Ships																						
10	Total Quantity No. of Containers:	a) 19.7 - Tonnes, 1 Container																						
11	Physical Form:	a) Oily																						
12	Special Handling Instructions & Additional Information:	Use PPE while loading, unloading & Transit handling																						
13	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.																						
14	Name and stamp:	Signature: Acknowledged from IP: 163.118.195.115					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>0</td><td>5</td><td>0</td><td>2</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	0	5	0	2	2	0	2	4
D	D	M	M	Y	Y	Y	Y																	
0	5	0	2	2	0	2	4																	
14	Transporter acknowledgement of receipt of Wastes:																							
15	Name and stamp:	Signature: Acknowledged from IP: 103.99.110.218					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>0</td><td>5</td><td>0</td><td>2</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	0	5	0	2	2	0	2	4
D	D	M	M	Y	Y	Y	Y																	
0	5	0	2	2	0	2	4																	
16	Receiver's certification for receipt of hazardous and other waste:																							
16	Name and stamp:	Signature: Acknowledged from IP: 103.99.110.218					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>0</td><td>7</td><td>0</td><td>2</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	0	7	0	2	2	0	2	4
D	D	M	M	Y	Y	Y	Y																	
0	7	0	2	2	0	2	4																	

FORM 10

[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's Name & Mailing Address (Including PhoneNo. and email)	Name : Adani Krishnapatnam Port Limited Address: P.O. Bag No:1, Muthukur Mandal, SPSR Nellore Dist., A.P. - 524344, Phone No : 9866192789 Email: venugopalreddy.g@adani.com																
2	Sender's Authorisation No:	APPCB/VJA/NLR/11344/CFO/HO/2019 11/11/2022																
3	Manifest Document No:	116389																
4	Transporter Name & Mailing Address: (Including PhoneNo. and email):	Name: SRI BALAJI PETROCHEM Address: No 52/ 2B, Chinnazambad village, Vijayapuram Mandal, Chittoor District, Andhra Pradesh -517586 Phone No : 8925842243 Email : gm@sbpetrochem.in																
5	Type of Vehicle:	Tanker																
6	Vehicle Registration No:	TN05AD5538																
7	Receiver's Name & mailing Address, (Including PhoneNo. and Email):	Name : Sri Balaji Petrochem Address: M/s. Sri Balaji Petrochem, Sy.No.52/2B, 52/3B, 52/4B, Chinnazambada (V), Vijayapuram (M), Chittoor District, Andhra Pradesh. Phone No : 8925842240 Email: sribalajipetrochem@gmail.com																
8	Receiver's Authorisation No:	Order No. CTR - 1747/APPCB/ZO-KNL/CTO &HWM/2023 Date:24.07.2023																
9	Waste Description:	a) HW - Recyclable Waste - 3.1 cargo residue, washing water and sludge containing oil, Oil containing cargo residue washing water and sludge from ships																
10	Total Quantity No. of Containers:	a) 21.22 - Tonnes, 1 Container																
11	Physical Form:	a) Sludge																
12	Special Handling Instructions & Additional Information:	Use PPE while loading, unloading & Transit handling																
13	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.																
	Name and stamp:	Signature: Acknowledged from IP: 183.118.198.90 <table border="1"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>1</td><td>4</td><td>0</td><td>2</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	1	4	0	2	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
1	4	0	2	2	0	2	4											
14	Transporter acknowledgement of receipt of Wastes:	Signature: Acknowledged from IP: 103.89.110.218 <table border="1"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>1</td><td>4</td><td>0</td><td>2</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	1	4	0	2	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
1	4	0	2	2	0	2	4											
15	Receiver's certification for receipt of hazardous and other waste:	Signature: Acknowledged from IP: 157.47.33.223 <table border="1"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>2</td><td>0</td><td>0</td><td>2</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	2	0	0	2	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
2	0	0	2	2	0	2	4											

FORM 10

- [See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's Name & Mailing Address (Including PhoneNo. and email)	Name : Adani Krishnapatnam Port Limited Address: P.O. Bag No:1, Muthukur Mandal, SPSR Nellore Dist., A.P. - 524344, Phone No : 9866192788 Email: venugopalreddy.g@adani.com																
2	Sender's Authorisation No:	APPCB/VJA/NLR/11344/CFO/HO/2019 11/11/2022																
3	Manifest Document No:	122953																
4	Transporter Name & Mailing Address: (Including PhoneNo. and email):	Name: SRI BALAJI PETROCHEM Address: No 52/ 2B, Chinnazambad village, Vijayapuram Mandal,Chittoor District, Andhra Pradesh -517588 Phone No : 8925842243 Email : gm@sbpetrochem.in																
5	Type of Vehicle:	Tanker																
6	Vehicle Registration No:	TN05AR2128																
7	Receiver's Name & Mailing Address, (Including PhoneNo. and Email):	Name : Sri Balaji Petrochem Address: M/s. Sri Balaji Petrochem, Sy.No.52/2B, 52/3B, 52/4B, Chinnazambada (V), Vijayapuram (M), Chittoor District, Andhra Pradesh. Phone No : 8925842240 Email: sribalajipetrochem@gmail.com																
8	Receiver's Authorisation No:	Order No. CTR - 1747/APPCB/ZO-KNL/CTO &HWM/2023 Date:24.07.2023																
9	Waste Description:	a) HW - Recyclable Waste - 3.1 cargo residue, washing water and sludge containing oil, Oil containing cargo residue washing water and sludge from ships																
10	Total Quantity No. of Containers:	a) 18.96 - Tonnes, 1 Container																
11	Physical Form:	a) Sludge																
12	Special Handling Instructions & Additional Information:	Use PPE while loading, unloading & Transit handling																
13	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.																
	Name and stamp:	Signature: Acknowledged from IP: 163.116.219.55																
		<table border="1"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>1</td><td>8</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	1	8	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
1	8	0	3	2	0	2	4											
14	Transporter acknowledgement of receipt of Wastes:																	
	Name and stamp:	Signature: Acknowledged from IP: 103.89.110.218																
		<table border="1"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>1</td><td>8</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	1	8	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
1	8	0	3	2	0	2	4											
15	Receiver's certification for receipt of hazardous and other waste:																	
	Name and stamp:	Signature: Acknowledged from IP: 103.89.110.218																
		<table border="1"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>2</td><td>0</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	2	0	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
2	0	0	3	2	0	2	4											

FORM 10

[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's Name & Mailing Address (Including PhoneNo. and email)	Name : Adani Krishnapatnam Port Limited Address: P.O. Bag No:1, Muthukur Mandal, SPSR Nellore Dist., A.P. - 524344, Phone No : 9866192789 Email: venugopalreddy.g@adani.com																
2	Sender's Authorisation No:	APPCB/VJA/NLR/11344/CFO/HO/2019 11/11/2022																
3	Manifest Document No:	122847																
4	Transporter Name & Mailing Address: (Including PhoneNo. and email):	Name: SRI BALAJI PETROCHEM Address: No 52/ 2B, Chinnazambad village, Vijayapuram Mandal,Chittoor District, Andhra Pradesh -517588 Phone No : 8925842243 Email : gm@sbpetrochem.in																
5	Type of Vehicle:	Tanker																
6	Vehicle Registration No:	TN05AR1870																
7	Receiver's Name & mailing Address, (Including PhoneNo. and Email):	Name : Sri Balaji Petrochem Address: M/a. Sri Balaji Petrochem, Sy.No.52/2B, 52/3B, 52/4B, Chinnazambada (V), Vijayapuram (M), Chittoor District, Andhra Pradesh. Phone No : 8925842240 Email: sribalajipetrochem@gmail.com																
8	Receiver's Authorisation No:	Order No. CTR - 1747/APPCB/ZO-KNL/CTO &HWM/2023 Date:24.07.2023																
9	Waste Description:	a) HW - Recyclable Waste - 3.1 cargo residue, washing water and sludge containing oil, Oil containing cargo residue washing water and sludge from ships																
10	Total Quantity No. of Containers:	a) 18.94 - Tonnes, 1 Container																
11	Physical Form:	a) Sludge																
12	Special Handling Instructions & Additional Information:	Use PPE while loading, unloading & Transit handling																
13	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.																
	Name and stamp:	Signature: Acknowledged from IP: 163.116.219.55 <table border="1" style="float: right;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>1</td><td>9</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	1	9	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
1	9	0	3	2	0	2	4											
14	Transporter acknowledgement of receipt of Wastes:																	
	Name and stamp:	Signature: Acknowledged from IP: 103.99.110.218 <table border="1" style="float: right;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>1</td><td>9</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	1	9	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
1	9	0	3	2	0	2	4											
15	Receivers certification for receipt of hazardous and other waste:																	
	Name and stamp:	Signature: Acknowledged from IP: 157.47.85.104 <table border="1" style="float: right;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>2</td><td>1</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	2	1	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
2	1	0	3	2	0	2	4											

FORM 10

[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's Name & Mailing Address (Including PhoneNo. and email)	Name : Adani Krishnapatnam Port Limited Address: P.O. Bag No:1, Muthukur Mandal, SPSR Nellore Dist., A.P. - 524344, Phone No : 9866192789 Email: venugopalreddy.g@adanl.com																
2	Sender's Authorisation No:	APPCB/VJA/NLR/11344/CFO/HO/2019 11/11/2022																
3	Manifest Document No:	122949																
4	Transporter Name & Mailing Address: (Including PhoneNo. and email):	Name: SRI BALAJI PETROCHEM Address: No 52/ 2B, Chinnezambad village, Vijayapuram Mandal, Chittoor District, Andhra Pradesh -517586 Phone No : 8925842243 Email : gm@sbspetrochem.in																
5	Type of Vehicle:	Tanker																
6	Vehicle Registration No:	TN05BZ8285																
7	Receiver's Name & mailing Address, (Including PhoneNo. and Email:	Name : Sri Balaji Petrochem Address: Wa. Sri Balaji Petrochem, Sy.No.52/2B, 52/3B, 52/4B, Chinnazambada (V), Vijayapuram (M), Chittoor District, Andhra Pradesh. Phone No : 8925842240 Email: sribalajipetrochem@gmail.com																
8	Receiver's Authorisation No:	Order No. CTR - 1747/APPCB/ZO-KNL/CTO &HWM/2023 Date:24.07.2023																
9	Waste Description:	a) HW - Recyclable Waste - 3.1 cargo residue, washing water and sludge containing oil, Oil containing cargo residue washing water and sludge from ships																
10	Total Quantity No. of Containers:	a) 20.86 - Tonnes, 1 Container																
11	Physical Form:	a) Sludge																
12	Special Handling Instructions & Additional Information:	Use PPE while loading, unloading & Transit handling																
13	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.																
	Name and stamp:	Signature: Acknowledged from IP: 183.118.219.55 <table border="1" style="float: right;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>1</td><td>9</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	1	9	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
1	9	0	3	2	0	2	4											
14	Transporter acknowledgement of receipt of Wastes:																	
	Name and stamp:	Signature: Acknowledged from IP: 103.99.110.218 <table border="1" style="float: right;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>1</td><td>9</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	1	9	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
1	9	0	3	2	0	2	4											
15	Receiver's certification for receipt of hazardous and other waste:																	
	Name and stamp:	Signature: Acknowledged from IP: 157.47.72.251 <table border="1" style="float: right;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>2</td><td>2</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	2	2	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
2	2	0	3	2	0	2	4											

FORM 10
[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's Name & Mailing Address (Including PhoneNo. and email)	Name : Adani Krishnapatnam Port Limited Address: P.O. Bag No:1, Muthukur Mandal, SPSR Nellore Dist., A.P. - 524344. Phone No : 9888192789 Email: venugopalreddy.g@adani.com																
2	Sender's Authorisation No:	APPCB/VJA/NLR/11344/CFO/HO/2019 11/11/2022																
3	Manifest Document No:	124689																
4	Transporter Name & Mailing Address: (Including PhoneNo. and email):	Name: Supreme petro products Address: S.F.No225/1A2J,225/1A2K, Matharpakkam Road, Eguvarpalayam(V) ,Gummidipoondi (Tal), Tiruvallur District,Tamil Nadu State, TN-TN-TAMIL NADU Phone No : 9444431111 Email : supremepetroproducts@gmail.com																
5	Type of Vehicle:	Tanker																
6	Vehicle Registration No:	TN20AW4465																
7	Receiver's Name & mailing Address, (including PhoneNo. and Email):	Name : Supreme Petro Products (Waste Oil) Address: M/s. Supreme Petro Products(Waste Oil) S.F.No225/1A2J,225/1A2K, Matharpakkam Road, Eguvarpalayam(V) ,Gummidipoondi (Tal), Tiruvallur District,Tamil Nadu State Phone No : 9444431111 Email: supremepetroproducts@gmail.com																
8	Receiver's Authorisation No:	2408238379833																
9	Waste Description:	a) HW - Recyclable Waste - 3.1 cargo residue, washing water and sludge containing oil, Oil containing cargo residue washing water and sludge from ships																
10	Total Quantity No. of Containers:	a) 14.52 - Tonnes, 1 Container																
11	Physical Form:	a) Sludge																
12	Special Handling Instructions & Additional Information:	Use PPE while loading, unloading & Transit handling																
13	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.																
	Name and stamp:	Signature: Acknowledged from IP: 163.116.219.58 <table border="1" style="float: right; text-align: center; border-collapse: collapse;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>2</td><td>8</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	2	8	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
2	8	0	3	2	0	2	4											
14	Transporter acknowledgement of receipt of Wastes:																	
	Name and stamp:	Signature: Acknowledged from IP: 49.47.241.51 <table border="1" style="float: right; text-align: center; border-collapse: collapse;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>2</td><td>8</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	2	8	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
2	8	0	3	2	0	2	4											
15	Receiver's certification for receipt of hazardous and other waste:																	
	Name and stamp:	Signature: Acknowledged from IP: 49.47.241.51 <table border="1" style="float: right; text-align: center; border-collapse: collapse;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>2</td><td>9</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	2	9	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
2	9	0	3	2	0	2	4											

Letter No AKPL/EHS/APPCB/11344/2024-031

Date:20.06.2024

To

The Environmental Engineer,
A.P. Pollution Control Board
Regional Office
SPSR Nellore



Dear Sir,

Sub:- Adani Krishnapatnam Port Limited - E-Waste Annual Returns for
the FY 2023-2024 - Form - B - Submitted - Reg.

Ref:- CFO & HWA order no APPCB/VJA/NLR/11344/CFO/HO/2019 dated
11.11.2022 valid up to 31.08.2027

@@@

In compliance with the conditions stipulated in CTO & HWA orders vide
reference cited above we are herewith submitting the Annual Returns of
Generation, Storage & Disposal of Used Batteries for the FY year 2023 - 2024
in Form - B as per the Batteries (Management & Handling) Rules, 2016 and
amendments thereof.

Kindly acknowledge receipt of the same.

Yours sincerely,

Dr. D. Jyothi
Vice President - Environment

Encl: a/a

Adani Krishnapatnam Port Ltd
Adani Krishnapatnam Port Company Ltd
PO Box No 1, Bhattukur, Mandal,
SPSR Nellore District 524344
Andhra Pradesh, India
CIN: L43202APPL96PLDC23529

Tel - 91 861 237499
Fax - 91 861 237 7046
info@adani.com
www.adaniports.com

FORM VIII
[see rule 10 (2) (ii)]

FORM FOR FILING RETURNS FOR BULK CONSUMER OF BATTERIES
[To be submitted by the bulk consumer to the State Board by 30th June
(for the period October-March) and 31st December (for the period April-September)
every year]

1.	Name and Address of the bulk consumer	Adani Krishnapatnam Port Limited, Krishnapatnam Village, Muthukur Mandal, 524344 SPSR Nellore Dist., Andhra Pradesh.
2.	Name of the Authorized person and full address with telephone and fax number	Dr. D. Jyothi - Vice President (Env) Adani Krishnapatnam Port Limited, Krishnapatnam (P), Muthukur (M) - 524344 SPSR Nellore Dist., Andhra Pradesh Phone : 9441046788 jyothi@gangavaram.com akpl.ehs@adani.com
3.	Number of new batteries of different categories purchased from the manufacturer/importer/dealer or any other agency during October-March and April - September Category: (i) Automotive (a) four wheelers (b) two wheelers (ii) Industrial (a) UPS (b) Motive Power (c) Stand-by (iii) Others	(i) No. of Batteries - 214* (i) Approximate weight - 10.78 (in Metric Tons)
4.	Number of used batteries of categories mentioned in Sl. No. 3 and Tonnage of scrap sent to manufacturer/ dealer/ Importer/ registered recycler/ or any other agency to whom the used batteries scrap was sent*.	M/s. Jayvel Enterprises, Plot No.26 A, KIADB Malur Industrial Area, Malur, Kolar - 563130 Karnataka

**10.78 MT of Battery waste is sent to registered recycler
(2.4 MT Acid battery scrap + 8.38 MT without acid battery scrap)

- Enclose list of manufacture/dealer/importer/registered recyclers/or any other agency to whom the used batteries scrap was sent.

Place: Krishnapatnam (P), Muthukur (M)
SPSR Nellore Dist., Andhra Pradesh

Date: 20.06.2024


Dr. D. Jyothi
Vice President - Environment

Signature of the authorized person

ADANI KRISHNAPATNAM PORT LTD
 PO BOX 1, VILLAGE: OOPALAPURAM, MANDAL MUTTIKURU
 NELLORE-520301, ANDHRA PRADESH, INDIA
 PAN No. : AAACK0657J
 CIN No. : U45203031996PLC128259
 GSTIN : 37AAACK0657J121
 State Code : 37



adani

Tax Invoice

To : JAYVEL ENTERPRISE PLOT NO 26A KILOD. MALUR INDUSTRIAL AREA MALUR. KOLAR-563130. KARNATAKA,INDIA PAN No : AAFF1334BF GSTIN : 29AAFF1334BF120 Place of supply KARNATAKA,INDIA State Code 29	Invoice No: 193700001377 Order No : 1143503325 PO No WS1066040640 Buyer JAYVEL ENTERPRISE PLOT NO 26A KILOD. MALUR INDUSTRIAL AREA MALUR. KOLAR-563130. KARNATAKA,INDIA GSTIN 29AAFF1334BF120 State Code:29 SAP Ref No:3138504512	Date: 13.03.2024 Date 12.03.2024 Date 19.02.2024
--	---	---

IBAN No.:	193700001377	Supply Type Code	92A
IBAN No.:	193700001377	Sub Supply Type	Supply
IBAN No.:	193700001377	Parenting Invoice Date	
IBAN No.:	193700001377	Tax Scheme	GST

Warranty: 12 Months
 Return Policy: As per the General Terms & Conditions
 Terms of Supply: (Services) as per the

SN	Item Description	Quantity	UoM	Area	Per	Amount(INR)
1	BATTERIES (VVO ACIO) MSWSAC No.83489000	8,380	Mt	80,400.00	1	673,752.00
					18%	121,275.36
					1%	7,950.20
Total Value:						802,977.56

Amount in words: Rupoo Eight Lakh Two Thousand Nine Hundred Savanty Seven And Paise Sixty Four Only

Payment : 100% Advance Payment **Incoterm** : Ex-Works

For ADANI KRISHNAPATNAM PORT LTD
 Authorized Signatory

ADANI KRISHNAPATNAM PORT LTD
 PO BOX 1, VILLAGE: OOPALAPURAM, MANDAL MUTTIKURU
 NELLORE-520301, ANDHRA PRADESH, INDIA
 PAN No. : AAACK0657J
 CIN No. : U45203031996PLC128259
 GSTIN : 37AAACK0657J121
 State Code : 37

ADANI KRISHNAPATNAM PORT LTD
 PO BOX 1, VYLADE: OOPALAPURAM, MANDAL: MUTHUKUD
 NELLORE-144, ANDHRA PRADESH, INDIA
 PAN NO. : AAACK8657J
 CIN NO. : U05203BJ1996PLC128230
 GSTIN : 37AAACK8657J121
 State Code : 37



adani

Tax Invoice

To:
 JAYVEL ENTERPRISE
 PLOT NO 26A KILDB
 MALUR INDUSTRIAL AREA, MALUR,
 KOLAR-563130,
 KARNATAKA, INDIA
 PAN No : AAFFJ7390P
 GSTIN : 29AAFFJ7390P120
 Place of supply: KARNATAKA, INDIA
 State Code: 29

Invoice No: 193700000119
 Order No : 1143502373
 PO No : DPAKAPL-2023-0160
Buyer: JAYVEL ENTERPRISE
 PLOT NO 26A KILDB,
 MALUR INDUSTRIAL AREA, MALUR,
 KOLAR-563130,
 KARNATAKA, INDIA
 GSTIN: 29AAFFJ7390P120
 State Code: 29
 SAP Ref No. 3130303054

Date: 27.04.2023
 Date: 26.04.2023
 Date: 17.03.2023

IRN No. 193700000119	CGST: 06.00%	SGST: 06.00%	Supply Type Code	B2B
Invoice No	119	119	Sub Party Type	Supplier
Document Type Code	INV		Preceding Invoice Date	
Preceding Invoice Number			Tax Scheme	GST
Transaction Mode	Receipt			

SNo	Item Description	Quantity	UoM	Rate	Per	Amount (INR)
1	200 Ball of Scrap MSN/SAC No: 87409000	2	100 MT	54,200.00		1,08,400.00
				18%		19,512.00
				1%		1,084.00
						Total Value: 1,28,996.00

Amount in words: Rupee One Lakh Fifty Four Thousand Twenty Nine And Paise Thirty Five Only

Payment : 100% Advance Payment Inco Terms : Ex-Works

For ADANI KRISHNAPATNAM PORT LTD
RAGHUNATH BYSANI Digitally signed by RAGHUNATH BYSANI
 Authorised Signatory

For ADANI KRISHNAPATNAM PORT LTD

FORM 10
(Sea Rule 19 (1))
MANIFEST FOR HAZARDOUS AND OTHER WASTE

1. Sender's name and mailing address (Including Phone No. and e-mail)	A. Anand Krishna Patil P.O. Ltd Mudholur		
2. Sender's Authorisation No.			
3. Manifest Document No.			
4. Transporter's name and address: (Including Phone No. and e-mail)	JAYVEL ENTERPRISE 914 84 89005		
5. Type of Vehicle	(Truck/Tanker/Special Vehicle)		
6. Transporter's Registration No.	306751		
7. Vehicle Registration No.	KA01AA7563		
8. Receiver's name and mailing address (Including Phone No. and e-mail)	JAYVEL ENTERPRISE Plot No. 28A, KIADB, Malur Industrial Area, Malur-563 130. Kolar District, Karnataka. CPCB REG. NO.: 3206		
9. Receiver's Authorisation No.	306622		
10. Waste Description	SCRAP METALS		
11. Total Quantity No. of Containers	8380 KGS m ³ or MT Nos		
12. Physical form	(Solid/Semi-Solid/Sludge/Oily Tarry/Sticky/Liquid)		
13. Special handling instructions and additional information			
14. Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorized, packed, marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.		
15. Transporter acknowledgement of receipt of Wastes	Name and Stamp	Signature	Month Day Year 03 13 2024
	Name and Stamp	Signature	Month Day Year 03 13 2024
16. Receiver's certification for receipt of hazardous and other waste	Name and Stamp	Signature	Month Day Year 03 13 2024
	Name and Stamp	Signature	Month Day Year 03 13 2024
Copy 1 (White):	To be forwarded by the sender to the State Pollution Control Board after signing all the seven copies.		
Copy 2 (Yellow):	To be retained by the sender after taking signature on it from the transporter and the rest of the five signed copies to be carried by the transporter.		
Copy 3 (Pink):	To be retained by the receiver (actual user or treatment storage and disposal facility operator) after receiving the waste and the remaining four copies are to be duly signed by the receiver.		
Copy 4 (Orange):	To be handed over to the transporter by the receiver after accepting waste.		
Copy 5 (Green):	To be sent by the receiver to the State Pollution Control Board.		
Copy 6 (Blue):	To be sent by the receiver to the sender.		
Copy 7 (Gray):	To be sent by the receiver to the State Pollution Control Board of the sender in case the sender is in another State.		

9/c copy



Ports and Logistics

Ref. No. AKPL/EC/ENV/007/2025-25

Date: 09.04.2025

To

The Environmental Engineer,
A.P. Pollution Control Board,
Regional Office,
SPSR Nellore,
Andhra Pradesh



Dear Sir,

Sub: Adani Krishnapatnam Port Limited (AKPL) – Complying with Phase I.i expansion of EC & CRZ clearance Conditions – Submission of NIOT Study reports - Reg.

Ref: EC & CRZ Clearance Order No.10-18/2016-IA-III dated 11.01.2021 and APCZMA NOC letter no. 202/CRZ/IND/2019 -30 dated 21.05.2020 accorded to AKPL by the Ministry of Environment, Forests & Climate Changes, New Delhi and APCZMA.

@@@

Adani Krishnapatnam Port Limited had obtained Environmental and Coastal Regulatory Zone clearances from MoEF&CC and Andhra Pradesh Coastal Zone Management Authority (APCZMA) for Phase III expansion of Port. The clearances were subjected to fulfilling of conditions for environmental monitoring as stipulated by the above authorities. In this regard AKPL has approached NIOT to carry out various monitoring studies letter dated 27.05.2021.

S.No.	Condition	Reference
A	Continuous monitoring of circulation of seawater shall be carried out every six months by engaging in a reputed agency like NIOT. The port shall undertake the study of multi-sensor, multi-data data to study the sedimentation studies in the inner harbour channel in addition to the in-	CRZ Clause: PART A: Specific Condition (iv)

Adani Krishnapatnam Port Ltd
PO Bag No 1, Muthukur Mandal,
SPSR Nellore District 524344
Andhra Pradesh, India
CIN: U45203AP1996PLC023529

Tel: +91 861 237 7999
Fax: +91 861 237 7046
info@adani.com
www.adaniports.com

S.No.	Condition	Reference
	house studies undertaken as part of regular monitoring of sedimentation in the harbour channel. The monthly reports shall be submitted to APPCB.	
B	The Port shall also undertake the scientific studies by engaging reputed agencies like National Institute of Ocean Technology (NIOT) and Indian Institute of Technology, Chennai to study the feasibility of constructing submerged breakwaters to protect the beach road from seasonal erosion and also during cyclones.	CRZ Clause: PART A Specific Condition (vii)
C	The applicant shall ensure that continuous monitoring systems of all likely affected parameters including air/fish/flora/fauna/water quality/ waste water discharges/solid waste disposal/construction material disposal etc., are installed and reports shared with the National Institute of Oceanography (NIO) on continuous basis and a monthly report submitted to the APPCB by the NIO, all through construction period and at least for one year after commencement of operations.	CRZ Clause: PART A: Specific Condition (viii)
D	The proposed expansion entails 60 million cu m of dredging in soft soil. As proposed, the PP shall utilize 26 million cu m of dredged sand for reclamation of low-lying areas of port, stockpile 2 million cu m on the coast north of north breakwater for long term coastal protection as recommended by NIOT and disposal of balance 32 million cu m of dredged spoil in the identified dredge disposal area of 56 Km ² beyond (-) 20 m contour. The impact of dredging on the marine environment should be monitored and necessary measures shall be taken on priority basis if any adverse impact is observed. NIOT will oversee the work as scientific body and continue to monitor its impact/benefits for at least 5 years post project completion. Necessary financial assistance to be provided by project proponent to NIOT. The report of the same to be submitted to regional office of MoEF&CC by project proponent.	EC Clause: Specific conditions (vii)

S.No.	Condition	Reference
E	Shoreline should not be disturbed due to dumping. Periodical study on shoreline changes shall be conducted and mitigation carried out, if necessary. The details shall be submitted along with the six-monthly monitoring reports.	EC Clause VI: Waste management (ii)

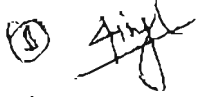
Complying with the above conditions, a study on Shore line changes from satellite imageries and monitoring of shoreline from field measurements and Shoreline protection from erosion report was prepared through National Institute of Ocean Technology (Ministry of Earth Sciences, Government of India) As per the MoEF & CC, EC & CRZ Clearance.

We therefore, submit herewith the study report to comply with the EC & CRZ Clearance stipulated condition.

Thanking You,

Yours Faithfully,

For M/s Adani Krishnapatnam Port Limited,



(Authorized Signatory)

Encl: a/a

Copy to:

SHRI N.S. MURALI, IFS

Inspector General of Forests (C),

Ministry of Environment, Forest and Climate Change,

Integrated Regional Office, Vijayawada Green House Complex,

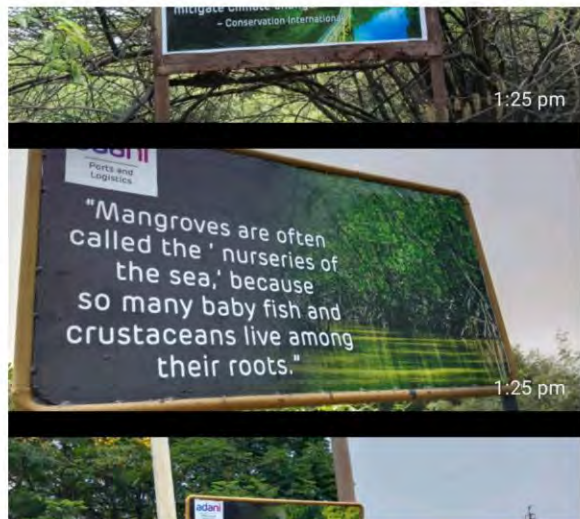
Gopalareddy Road, Vijayawada - 520010, Andhra Pradesh

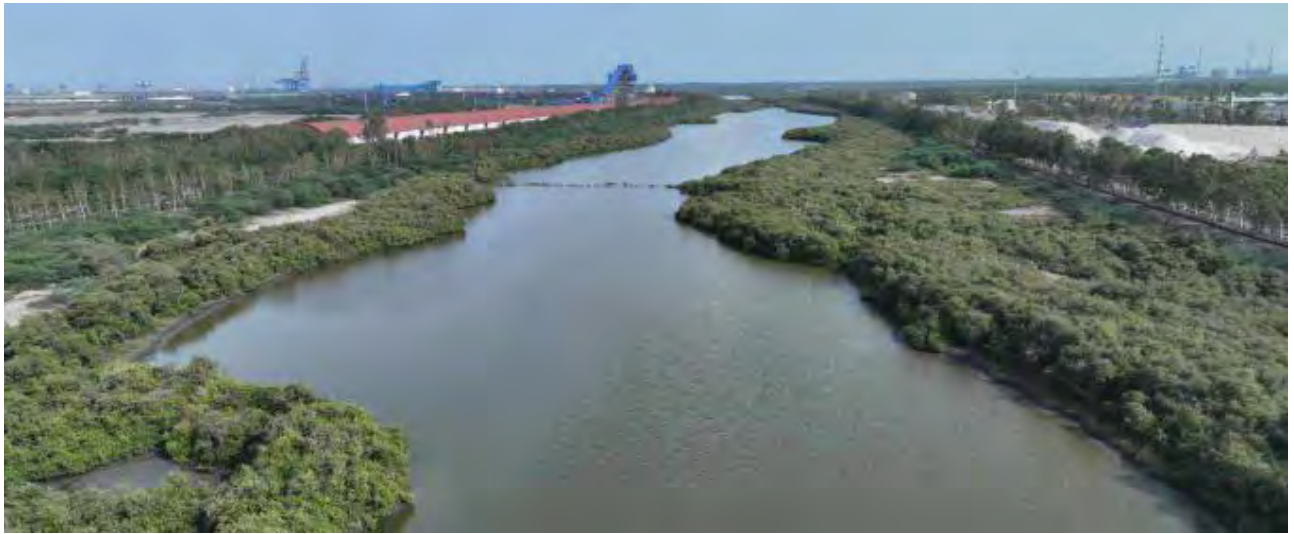
Annexure 8

Mangrove Conservation In AKPL:

- Protecting and conserving the existing mangrove areas with suitable barricading, erection of display boards and ensuring the tidal flow. As a part of Phase I EC compliance, an area of 9 acres (3.64 ha) of mangroves are being conserved in the port areas since its inception.
- Mangrove restoration is to be considered as a viable option for enhancing the green belt cover.
- Mangrove's development in 50 Ha. has been undertaken within the port as part of Phase II development.
- AKPL has conserved more than 200 Acres mangrove area in port premises by significant conservation efforts.
- The proponent shall continue to restore mangroves in the suggested sites with species like *Avicennia marina*, a resilient and common species along the creek.
- Afforestation of mangrove cover along the creeks shall be continued and intensified.
- Raise awareness in the local community about the importance of mangroves and their importance.
- Measures should be taken for desilting the creeks for easy tidal water flow which will enhance the natural flushing leading to healthy growth of mangroves.
- Illegal cutting of mangroves during the construction and operation phase of port should be prevented.







Mangrove Conservation at AKPL

adani

Ports and
Logistics

Ref. No. AKPL/EHS-EC/MoEF&CC/112/2024-25

Date: 27.11.2024

To

Deputy Director,
Ministry of Environment, Forests & Climate change (MoEF & CC),
Integrated Regional Office,
Green House Complex, Gopal Reddy Road,
Vijayawada, Andhra Pradesh, 520010.

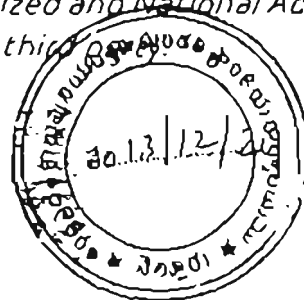
Dear Sir,

Sub:- Submission of Half yearly compliance report on conditions of Environmental and CRZ clearances for phase I, II & III Development at Krishnapatnam Port for the period of April to September 2024 - Reg.

- Ref:-**
1. EC & CRZ for Phase I of Krishnapatnam Port Ltr. No: 10-22/2005-IA-III dated 26.07.2006
 2. MoEF EC & CRZ Clearance Order F. No 11 - 62 / 2009 - IA.III dated 13.11. 2009 extended vide Oder dated 18.08.2015 & 16.04.2018 and amended order dated 16.3.2016.
 3. EC & CRZ for Phase II of Krishnapatnam Port Ltr. No: 10-18/2016-IA-III dated 11.01.2021.
 4. APPCB CTE Order No: 633/APPCB/CFE/RO-NLR/HO/2010 Dt.25.02.2021 and amended order dated 06.04.2021 & 16.07.2021.
 5. APPCB CTO & HWA Order No: APPCB/VJA/NLR/11344/CFO/HO/2019 dated 11/11/2022 valid up to 31.08.2027.

As per the Standard condition XI, Miscellaneous condition no. (iv) of the EC & CRZ Clearance and General condition No. 52 of the Consent to Operate (CTO) cited

"The port shall submit Half yearly compliance reports to all the stipulated conditions in Environmental Clearance (EC), Consent for Establishment (CFE) and Consent for Operation (CFO) through website i.e., <https://pcb.ap.gov.in> by 1st of January and 1st July of every year. The first half yearly compliance reports shall be furnished by the port and second half yearly compliance reports shall be the audited through MoEF & CC recognized and National Accreditation Board for Laboratory Testing (NABL) accredited third party laboratory."



Adani Krishnapatnam Port Ltd
PO Bag No 1
Muthukur Mandal
SPSR Nellore 524 344
Andhra Pradesh, India
CIN: U45203GJ1996PLC128219

Tel -91 861 231 7099
Fax -91 861 237 7046
www.adaniports.com



Ports and
Logistics

With reference to the above, we are herewith submitting the First half yearly compliance report of Phase I, II & III developments of Adani Krishnapatnam port limited along with Environmental Monitoring reports for the period of April 2024 to September 2024.

Thanking You,

Yours Faithfully,
For M/s Adani Krishnapatnam Port Limited,

(Authorized Signatory)

Encl: a/a

1. Copy to regional Director, CPCB Zonal office, Bengaluru.
2. Copy submitted to the Environment Engineer, A.P Pollution control Board, Regional Office, SPSR Nellore for kind information.

Adani Krishnapatnam Port Ltd
PO Reg. No 1
Muthukur Mandal
SPSR Nellore 524 344
Andhra Pradesh, India
CIN: U45203GJ1996PLC128239

Tel : 91 861 237 7999
Fax : 91 861 237 7046
www.adaniports.com

Registered Office: Adani Corporate House, Shanmigram, Near Vaishno Devi Circle, S G Highway, Khodiyar, Ahmedabad 382 421, Gujarat, India

Your (**Half Yearly Compliance Report**) has been **Submitted** with following details

Proposal No	IA/AP/MIS/566/2009
Compliance ID	113039143
Compliance Number(For Tracking)	EC/M/COMPLIANCE/113039143/2024
Reporting Year	2024
Reporting Period	01 Dec(01 Apr - 30 Sep)
Submission Date	30-11-2024
RO/SRO Name	V Geroge Jenner
RO/SRO Email	tr025@ifs.nic.in
State	ANDHRA PRADESH
RO/SRO Office Address	Integrated Regional Offices, Vijayawada

Note:- SMS and E-Mail has been sent to V Geroge Jenner, ANDHRA PRADESH with Notification to Project Proponent.

KRISHNAPATNAM PORT COMPANY LTD.

Ref.No.KP/MOEF/113

Dated: 29th August, 2012

To
 The Director (IA-III)
 Ministry of Environment and Forests
 (I.A. Divison)
 Paryavaran Bhavan
 CGO Complex, Lodi Road
 New Delhi – 110 003

Kind Attn: Shri Lalit Kapur

Sub: Environmental and CRZ Clearance for the development of Krishnapatnam Port in Phase-II at Krishnapatnam, Sri Potti Sriramulu Nellore District, Andhra Pradesh by M/s. Krishnapatnam Port Company Limited – modification to Specific Condition 5 (vii) – Request - Reg.

Ref: Your Letter F.No.11-62/2009-IA.III dated 13.11.2009

Dear Sir,

- (1) We invite your kind attention to Specific Condition No.5.(vii) of the CRZ & Environmental Clearance Order No.11-62/2009-IA.III dated 13.11.2009 of the MoEF above cited.
- (2) You may recall that during the public hearing held on the 20th February, 2009 at Krishnapatnam, Nellore District, Andhra Pradesh for Phase-II Development of Krishnapatnam Port, a request was made by one of the public (Jana Vignana Vedika) that a greenbelt of 100 m width may be provided **around the port** in lieu of the proposed 50 m width. KPCL clarified during the public hearing that as per the Phase-II development plan, a minimum of 50m wide Greenbelt would be developed all along port boundary and 20m along the stockyards. With these provisions the likely impact on the air quality was predicted using ISCST3 model and the results are within the standards stipulated by CPCB/MoEF. Our response on the Minutes of the Public Hearing was incorporated in the Final EIA report submitted to the MoEF vide KPCL's Letter dated 06.05.2009 (copy of relevant extract D-3 enclosed for ready reference as **Annexure-I**). In this context we submit that the MoEF in their CRZ & EC stated that "The greenbelt of 100 m width shall be developed **around the coal stack yard** as per the request in the public hearing", while the actual request made during the public hearing relates to "greenbelt of 100 m width **around the port**"

o/c





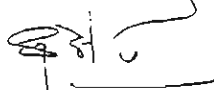
- (3). We further submit that the APCCB in its CFE for Phase-II development vide Order No.633/PCB/CFE/RO-NLR/HO/2010/390, dated 08.05.2010 (copy of relevant extract enclosed as Annexure-II) directed at Condition 24 that "Green Belt of width 100m shall be developed along the boundary of the industry as committed by the proponent". Accordingly a greenbelt of 100 m width is being developed along the boundary of the port and a 20 m wide Green belt around the iron ore and coal stack yards. The status of compliance was submitted to the Regional Office, MoEF, Bangalore in the first half-yearly compliance report dated 11.06.2010 (copy of relevant extract enclosed as Annexure-III). For ready reference, we are enclosing herewith (Annexure-IV) a pictorial presentation of the actual field Ambient Air Quality data from the monitoring stations along Port boundary for the period 2010, 2011 and 2012 (upto July) which confirms the findings of the model incorporated in the EIA Report and comply with the AAQ Standards.
- (4). During the recent visit of the Senior Officers of the MoEF, Southern Region, Bangalore to Krishnapatnam Port on 24.07.2012, we brought the above anomaly to their notice and they have advised that the MoEF may be addressed to modify the Specific Conditions 5 (vii) of the above cited EC to reflect the actual request made by the public during the hearing held on 20th February, 2009.

We accordingly request you to kindly issue an early order modifying the provision under Specific Condition 5 (vii) of the Environmental Clearance Order cited above as under:-

Existing	Requested
"The greenbelt of 100 m width shall be developed around the coal stack yard as per the request in the public hearing".	"The Greenbelt of 100m width shall be developed along the port boundary as per the request in the public hearing".

Thanking you,

Yours faithfully,
for KRISHNAPATNAM PORT CO. LTD.,


(S.B. PURI)
Director

Encl: As above

Copy to: The Director, MoEF, Southern Region, Bangalore.

Encl: As Above

Copy to: CEO, KPCL, Wellore along with enclosures

Appendix D
Responses on Minutes of Environmental Public
Hearing Meeting

Appendix D Responses on Minutes of Environmental Public Hearing Meeting on Proposed Phase II Development of Krishnapatnam Port

Date of Public Hearing : 20th February 2009

Venue : Mandal Parishat Elementary School, Krishnapatnam, Sri Potti Sriramulu Nellore District

S.No	Public View	Response made by KPCL	Section Reference in Final EIA Report
1.	Environmental Impact Assessment (EIA) should have been written in Colloquial Jargon for better understanding of local people	For better understanding of the local people, the Executive Summary of Environmental Impact Assessment Study Report which details the project development plan (Phase-II), status of baseline environmental conditions, Likely environmental and social impacts due to Phase-II development of Port, environmental management plan (proposed mitigation measures, monitoring plan and greenbelt development) and project benefits etc. are written in local language (Telugu also). In the EIA report, the Colloquial Jargon of some of the species is given to the extent possible. The Executive summary (Telugu & English) was displayed in all the four mandal offices and village panchayats for easy access to the local people and to make them aware about the project details.	Nil
2.	Rationale behind choosing 10 km radius for EIA study	The study area of 10 km is considered as per the Guidelines of MoEF. As per the EIA Manual of MoEF, the impact zone shall be determined through a screening approach and accordingly the monitoring location networks (for Air, water, soil and noise) are developed. As per the EIA manual, the impact region would be about 7-10 km from the periphery of the proposed development area. Hence, a study area of 10 km from the project site centre has been considered and the study was conducted accordingly. In the study area, four mandals are falling. The socio-economic	Section 1.9.1 of Chapter 1

S.No	Public View	Response made by KPCL	Section Reference in Final EIA Report
3.	Greenbelt of 100 m width may be provided around the Port in lieu of proposed 50 m width. Also, 33 % of total area may be developed as Greenbelt.	<p>conditions in these four mandals have been established.</p> <p>As per the Phase-II development plan, a minimum of 50 m wide Greenbelt would be developed all along port boundary especially at places where the villages are in proximity to the port. Also, it is proposed to develop 20 m wide greenbelt along the stockyards. The total area of proposed greenbelt is 60 ha, which is equal to 10% of total area for the Phase-II development of Port. Also, as part of Phase-I development of Port, 60 acres of area is being developed as Green belt. The likely impacts on air quality due to the proposed Phase-II developmental activities of the port have been predicted using ISCST3 model and the results show that the air quality parameters are found to be with in the standards stipulated by CPCB/MoEF. Since port development is a water front based facility and relatively less pollution intensive, it may not be required to allocate 33% of the total area for Green belt development.</p>	Existing greenbelt details are discussed in Section 2.3.7.1 and proposed greenbelt details are provided in Section 2.5.15 of Chapter 2.
4.	Dedicated transportation for Krishnapatnam Port shall be developed to avoid inconvenience to the local people by using village roads.	<p>The Government of Andhra Pradesh (GoAP) has developed a dedicated four lane road cum rail corridor from Venkatachalam on NH-5 to Krishnapatnam Port.</p> <p>This dedicated rail road link to the port will ensure quick movement of goods, safety to the local people and the existing traffic in the region as the NH-5 itself forms a part of the Six Lane Golden Quadrilateral.</p> <p>KPCL will also strictly adhere to the Environmental mitigation measures while transporting the cargo.</p>	Section 2.5.13 of Chapter 2.
5.	Roads were damaged due to transportation of Iron Ore.	The dedicated four lane road now diverted the traffic from the village roads. Road damages, if any are however not directly related to Iron Ore transportation to the port, but due to overall ongoing developmental activities in the region.	Nil
6.	Port authorities have to take	All the fatalities (traffic accidents) caused are not directly related	Nil



ANDHRA PRADESH POLLUTION CONTROL BOARD
 PARYAVARAN BHAVAN, A - 3, INDUSTRIAL ESTATE,
 SANATNAGAR, HYDERABAD - 500 018

Phone: 23887500
 Fax: 040 - 23815631
 Grams: Kalushya Nivarena
 Website: www.appcb.ap.nic.in

REGD. POST WITH ACK. DUE

CONSENT ORDER FOR ESTABLISHMENT

Order No. 633/PCBICFE/RO-NLR/HO/2010 390

Dt. 08.05.2010

Sub: PCB - CFE - M/s. Krishnapatnam Port Co. Ltd., Krishnapatnam (V), Tammenapatnam (V), Narikellapalli (V), Panlapalem (V), Epuru (V), Muthukur (V), Muthukur (M), SPSR Nellore district - Consent for Establishment (Expansion) of the Board under Sec. 25 of Water (P & C of P) Act, 1974 and Under Sec. 21 of Air (P&C of P) Act, 1981 - Issued - Reg.

- Ref: 1) CFE order No. APPCB/VJA/NLR/633/HO/2004, dt. 25.5.2004.
 2) Environmental Clearance and CRZ Clearance dt. 13.11.2009 issued by MOE&F, GOI.
 3) Industry's application received on 29.12.2009 & addl. information received on 1.2.2010.
 4) R.O's inspection report dt. 15.2.2010
 5) Industry's Ir. dt. 6.4.2010
 6) CFE Committee meeting held on 8.4.2010.
 7) Industry's Ir. dt. 19.4.2010

1. In the reference 3rd cited, an application was submitted to the Board seeking Consent for Establishment (CFE) for expansion of Phase-II development of Krishnapatnam Port to handle the cargo as mentioned below, with a project cost of Rs. 6000.0 crores (for expansion)

Sl. No	Existing capacity (Phase -I) (as per the CFE order dt 25.05.2004)		Proposed Expansion (Phase -II)	
	Type of Cargo	Quantity	Type of Cargo	Quantity
1	Coal	5 million tons/annum (Coal - 20000 to 30000 TPD)	Dry Bulk Cargo (Coal)	39 MTPA
2	Iron Ore	18 Million tons/ annum (60,000 to 80,000 TPD)	Container Cargo	3.30 Million TEUs/year
3	Fertilizers, Food grains, Sugar, Cement & Cement clinker, bauxites, Feldspar, Edible oils.	4 Million tons/annum	General Cargo	5.0 MTPA
4	-	-	Bulk Liquid Cargo (POL)	0.30 MTPA
	Total	28.0 Million tons/annum	Total	44.3 MTPA & 3.3 Million TEUs/year of container cargo

No. of Berths	2 Nos.	No. of Berths • Coal Berths – 5 Nos. (4 North port & 1 South port) • Container berths – 6 Nos. (1 North side + 5 South side) • General Cargo Berths – 2 Nos • POL berth – 1 No.	14 Total length – 4100 m (North port – 2,000 m, South port – 2,100 m)
---------------	--------	--	---

The developmental works as part of proposed Phase –II development of the port are as follows :-

- Breakwaters will be extended as follows :
 - > North Breakwater – Length : 1312 m, Depth : (-) 5.5 m
 - > South Breakwater – Length : 1624 m, Depth : (-) 5.8 m.
 - Dredging of existing approach channel, berths and turning circle for adequate depths
 - > Dredging quantity : 52 million cu.m
 - > Dredging material to be used for reclamation : 9 million cu.m
 - > Dredge material to be disposed at 20m. depth & beyond : 43 million cu.m.
 - Exclusive conveying system of length 12 m for Ultra Mega Power Projects (UMPP), APGENCO Power Plant, Southern side Power Plants.
2. As per the application, the above activity is to be located within the existing port area located at Krishnapatnam (V), Tammenapatnam (V), Narikellapalli (V), Pantapalem (V), Eperu (V), Muthukur (V), Muthukur (M), SPSR Nellore district.
 3. The above site was inspected by the Environmental Engineer, Regional office, Nellore, A.P Pollution Control Board on 9.1.2010 and found that the site is surrounded by
 - North : Vacant lands
 - South : Bay of Bengal
 - East : Kandaleru Creek
 - West : Kandaleru Creek
 4. The Board, after careful scrutiny of the application and verification report of Regional Officer, hereby issues CONSENT FOR ESTABLISHMENT for Expansion to your activity Under Section 25 of Water (Prevention & Control of Pollution) Act 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. This order is issued to the activity as mentioned at para (1) only.
 5. This Consent Order now issued is subject to the conditions mentioned in Schedule 'A' and Schedule 'B'.

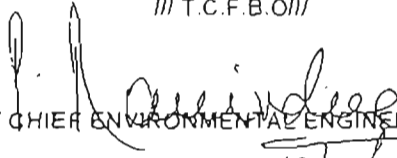
6. This order is issued from pollution control point of view only. Zoning and other regulations are not considered

Encl: Schedule 'A'
Schedule 'B'

Sd/-
MEMBER SECRETARY

✓
To
M/s. Krishnapatnam Port Co. Ltd.,
#1259, Lakshmi Towers,
Road No.36, Jubilee Hills, Hyderabad – 500 033

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

2/5  JOINT CHIEF ENVIRONMENTAL ENGINEER(CFE)

10/5/10

Solid Waste:

18. The proponent shall comply with the following:

Sl. No.	Solid Waste	Quantity	Method of Disposal
1.	Domestic use	250 kgs./day	After composting, Biodegradable waste is proposed to be used as manure. Non Biodegradable waste will be disposed to approved vendors.
2.	STP sludge	-	To be used as manure.

19. The following rules and regulations notified by the MOE&F, GOI shall be implemented.

- a) Hazardous waste (Management, Handling and Transboundary Movement), Rules, 2008.
- b) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.
- c) Coastal Regulatory Zone (CRZ) Notification, 1991.
- d) Municipal Solid Waste (Management & Handling) Rules, 2000 & amendments thereof.

20. The storage facilities of fuel oils shall be made in well designated area where risk is minimum to storage facilities to prevent fire hazard and unauthorized access to unauthorized elements.
21. Fire detection and fire fighting facilities with adequate water storage facility shall be provided in fire prone area in consultation with Directorate of Fire Firefighting.
22. Onsite & offsite Disaster Management plan shall be prepared to meet any eventuality in case of any accident. Mock drills shall be conducted atleast twice a year and modifications required if any shall be incorporated in Disaster Management Plan.
23. In case of any leakage container of hazardous cargo is found, permission shall be obtained from the Board for disposal after establishing type and quantity of the waste

Other Conditions:

24. Green belt of width 100 m shall be developed along the boundary of the industry as committed by the proponent. The greenbelt shall be under taken in an area of 167.5 ha in phase-II. Green belt development shall be started along with the construction activity.
25. The industry shall implement the commitment given in action plan submitted vide Ir.dt 19.4.2010 with in the scheduled time period and shall submit compliance to the concerned Regional Officer.

KRISHNAPATNAM PORT COMPANY LTD.



Ref. No. KP/MoEF/90

Date: 11th June, 2010

To

The Director (S)
Ministry of Environment & Forests (MoEF)
Regional Office (Southern Zone)
Kendriya Sadan, 4th Floor
E&F Wings, 17th Main Road
2nd Block, Koramangala
Bangalore - 560 034

Kind Attn: Dr. A. B. Harapanahalli

Sub: Submission of Half Yearly Compliance Reports of Krishnapatnam Port Phase- I & II
Environmental Clearances for period - September, 2009 to March, 2010 - Reg.

- Ref: 1. MoEF Clearance Letter No. 10 -22/2005-IA.III dated 26.07.2006 for Krishnapatnam Port
Phase-I
2. MoEF Clearance Letter No. 11-62/2009-LA.III dated 13.11.2009 for Krishnapatnam Port
Phase-II


Dear Sir,

Please find herewith enclosed condition wise compliance reports of above cited MoEF
Environmental Clearances for Krishnapatnam Port Phase-I&II respectively. As desired, we are also
enclosing results of monthly Environmental Monitoring Reports of Krishnapatnam Port Phase-I
for period of six months from September, 2009 to March, 2010.

The analysis of Environmental Monitoring Reports for the quarter ending December, 2009 &
March, 2010 are also enclosed.

Thanking you,

Yours faithfully,
for KRISHNAPATNAM PORT CO. LTD.,


(M.A.R. ANSARI)
President (Engineering)

Enclosures:-

1. Compliance Reports for Phase-I & II
2. Monthly Progress Reports from September, 2009 to March, 2010
3. Quarterly analysis reports for December, 2009 & March, 2010

DEVELOPMENT OF KRISHNAPATANAM PORT

Environmental Clearance Compliance Report for Phase-II

Period
November 2009 to March 2010

Action taken on MOEF Clearance for Krishnapatnam Port -Phase-II dated 13.11.2009

Sl.No.	Observations as per MOEF	Action taken
5. Specific Conditions		
1.	All the conditions as stipulated by the Forests & Environment Department, Govt. of Andhra Pradesh vide letter No.2286/CZMA/2009, dated 11.05.2009 shall be strictly complied.	Noted
2.	All the details / information submitted by the project proponent vide letter No.KP/MOEF/PH-II/174, dated 17.08.2009 shall be strictly complied.	Noted
3.	The hydro-dynamic studies shall be undertaken to ascertain the impact to the shoreline in the stretch and ecologically sensitive areas and the report shall be submitted to the Ministry.	The hydro-dynamic studies to ascertain the impact of port development to the shoreline in the stretch have been carried out through M/s.HR Wallingford, London. No long term impact is noticed due to minimal net drift along the coastline. However as recommended by them in their report dated October, 2007 – 7 Kms. both North and South of the coastline is being monitored through M/s.Indian National Centre for Ocean Information Services, Hyderabad using satellite imagery. From the INCOIS report for the years ending October, 2008 and January 2010 the coastline is found to be stable. Further studies are being continued.

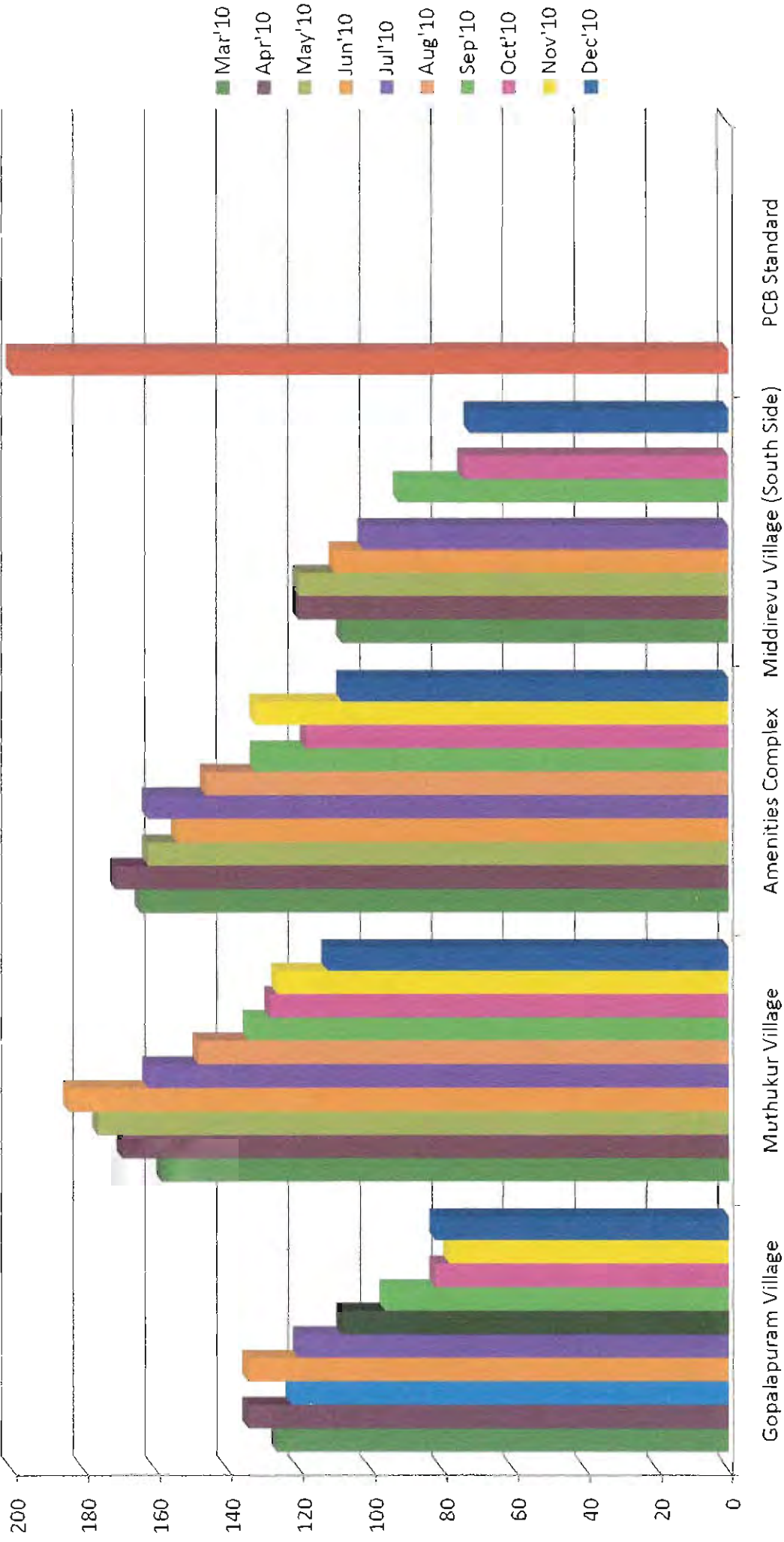
4.	Ministry has taken a decision that the plantation of mangroves shall be undertaken on an area of 50 ha., as the Phase-II of the project spreads over 800 ha.	As the mangroves are highly sensitive to the soil conditions and the tidal and hydrological conditions, suitable areas around the port are being identified through the District Administration for allotment of land for development of mangroves as a part of Phase-II of the project.
5.	Six monthly monitoring shall be carried out and a comparative analysis shall be made to examine for any mitigative measures required.	Periodic monitoring of various parameters is being carried out and six monthly comparative analysis reports are being made to identify mitigative measures required of any
6.	The temperature, salinity and tidal inflow shall be monitored weekly.	These are the studies prescribed for the Intake Pump House. The parameters would be monitored on commissioning of the Desalination Plant.
7.	The greenbelt of 100 m. width shall be developed around the coal stock yard as per the request in the public hearing.	As per the request in the public hearing 100m width of Greenbelt is being developed around the port boundary.
8.	Impact on the drawal of the water from the Kandaleru Creek shall be regularly monitored and report submitted to the Ministry.	The pattern of siltation, currents and impact on Navigation at the Intake Pump House will be monitored on commissioning the facility.
9.	Continuous monitoring on disposal of dredged material shall be put in place for both pre and post monsoon periods.	The dispersion of dredged material at the dumping grounds shall be monitored during the process of capital dredging.
10.	No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	No construction work other than that permitted in Coastal Regulation Zone Notification shall be carried out in CRZ Area. (500m from Coast and 200m from Khandaleru).

Annexure - IV

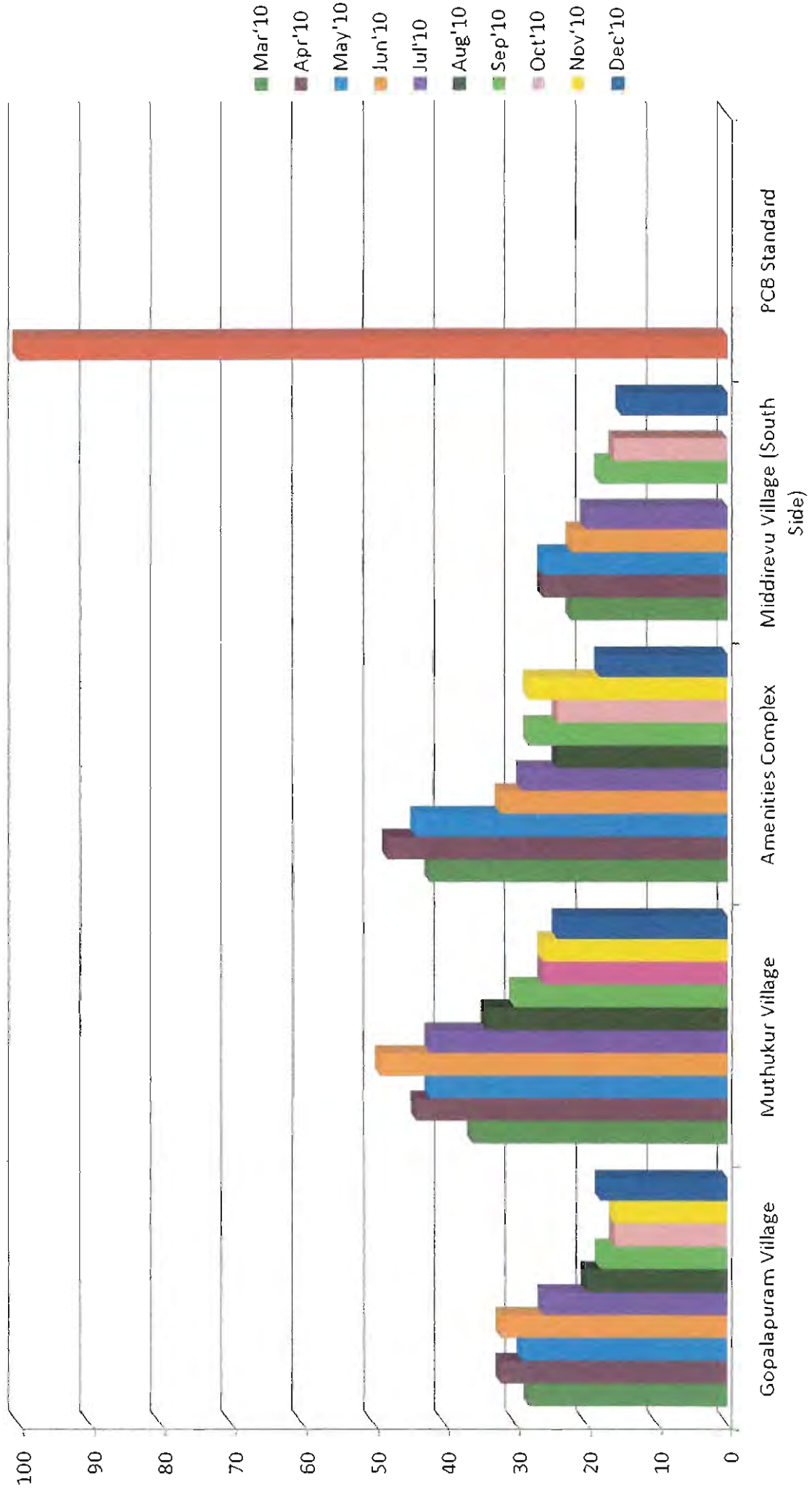
Krishnapatnam Port Company Limited

Pictorial presentation of Ambient Air Quality Monitoring data along the Port Boundary for the period 2010, 2011 and 2012 (upto July)

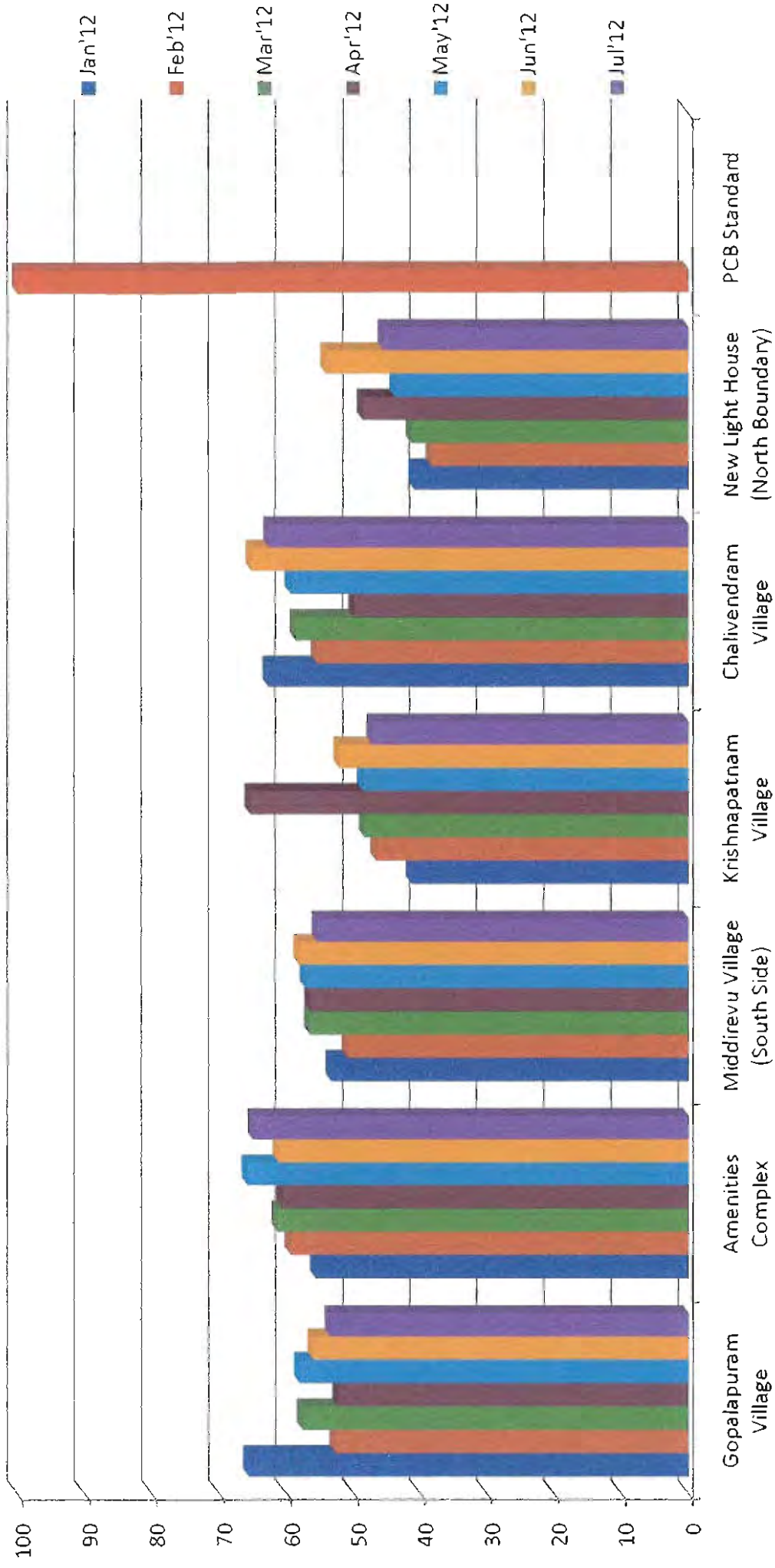
Ambient Air Quality of Total Suspended Particulate Matter (TSPM) Along Boundary of Krishnapatnam Port during the Year 2010



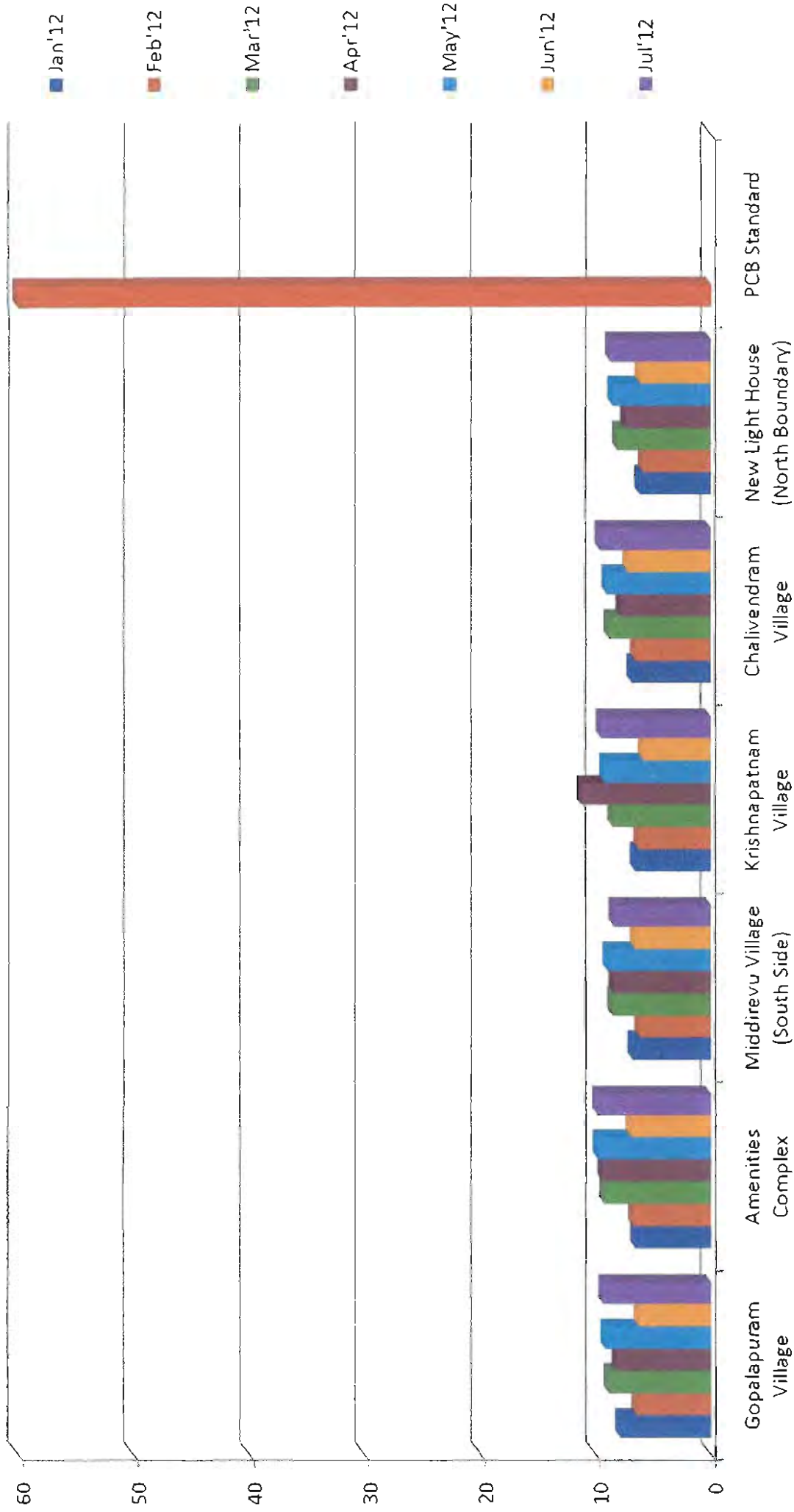
Ambient Air Quality of Respirable Suspended Particulate Matter (RSPM/PM₁₀) Along Boundary of Krishnapatnam Port for the Year 2010



Ambient Air Quality of Respirable Suspended Particulate Matter (RSPM/PM₁₀) Along Boundary of Krishnapatnam Port during the year 2012



Ambient Air Quality of Particulate Matter ($PM_{2.5}$) Along Boundary of Krishnapatnam Port during the year 2012



MOCK DRILL REPORT

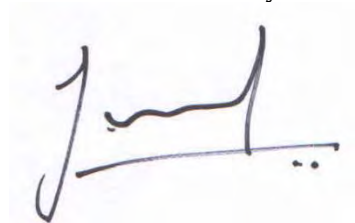
Name of the Mock Drill	Oil spills from vessel inside the Harbor
Type of Mock Drill	OPR DRILL
Date	19/02/2025
Location of the Event	NW3 Berth
Description of the event	MT EVERHARD SCHULTE reported - oil spill from the vessel during operation.
Event	Oil Spill from the vessel during operation inside the harbour.
Mock drill conducted by	Sk. Junead
Name of the Observers	Capt Rajat Garg (HoD)
	Capt Sahoo (HoS)
Emergency declared at (Time)	15:00
All Clear declared at (Time)	16:10

Emergency Actions:

Time	VHF	ACTIONS
15:00	VHF/12	MT EVERHARD SCHULTE at Berth NW3 Berth informed Port control at 15:00 hrs that small quantity of crude palm oil spilled during cargo operation vsl stopped discharging cargo.
15:06	PH	Port control informed MT EVERHARD SCHULTE vessel master to stop discharging cargo & initiate your oil pollution response operation.
15:20	VHF/12	The Port control conveyed above message to HOD, HOS, In-charge of port control, Duty Port Captain & oil pollution team. Also informed other departments concerned – Fire, Medical Services.
15:30	VHF 12	MT EVERHARD SCHULTE vessel master informed to port control cargo operation stopped and a total of 35 liters of oil spilled onboard and crew standby.
15:32	VHF 12	In charge of port control one length containment boom is deployed pls advise how much length to pay out, in charge advised to pay two more length and make it total 60 mtrs containment boom.
15:45	VHF/12	In charge the team instructed to maintain this position and handover boom towing team boom and make loop slowly to contained spilled oil and seal the spilled oil movement.
15:55	VHF/12	60 mtrs contained boom head out and deployed. In charge advise to secure the end with boat 821 and seal the movement oil.
15:57	VHF/12	Instructed team keep the boom and stand by at location as skimmer being deployed for recovery of spilled oil and recovery started.
15:59	VHF/12	Oil recovery is completed. Collected above 100 ltrs which are being sent to EHS dept for safe disposal.
16:00	VHF/12	Instructed all team to remove skimmer and booms and start picking up and secure containment boom.
16:10	VHF/12	Drill was called off and all participants were instructed for Debriefing. All departments concerned were informed regarding calling off the drill.

Items/ resource consumed	Boat 821, Fiber Boats -2, Towing Ropes, OPRC Team				
No. of persons reported at assembly point (Attach list)	7				
No. of people inside the area/ building (Attach list)	N/A				
No. of vehicles/ equipment evacuated	1 Boat				
No. of vehicle /equipment inside the area	N/A				
No of the people sent outside at safe place from assembly point	N/A				
No. of victims rescued	N/A				
No. of people injured a. Minor injuries b. Major injuries c. No.of victim Hospitalized d. Fatal	None Injured				
No.of Fire/ Rescue team involved	<u>Department</u>		<u>No.of</u>		
	<u>persons</u>		Nil		
Type of vehicle / equipment used in drill	<u>Vehicle/ Equipment</u>		<u>No's</u>		<u>Reg.</u>
	<u>Number</u>				
	Dolphin (Patrolling) Boat		1		
	Fiber (Patrolling) Boat		2		
Time taken for the drill :					
Task	People Evacuation	Vehicle/ Equipment Evacuation	Fire Extinguishing	Rescue Operation	Total
Actual	N/A	N/A	N/A	N/A	0 Min
Observations	Observer-1: None				
	Observer-2: None				
Sl. No.	Action Plan	Responsibility		Target Date	
1	Immediate action taken by Port Control.	Port control		Immediate	

Drill Conducted by:



In Charge - Port Control

F. No. 11-62/2009-IA.III
Government of India
Ministry of Environment & Forests
(IA.III Division)

Room No. 534,
Paryavaran Bhawan,
CGO Complex, Lodhi Road,
New Delhi-110003.

Dated: 2 March 2010

CORRIGENDUM


Subject: Environmental and CRZ clearance for Phase II Development of Krishnapatnam Port at Krishnapatnam, Sri Potti Sriramulu Nellore District, Andhra Pradesh by M/s. Krishnapatnam Port Company Ltd - Reg.

Sir,

This has reference to your letter No. KP/MoEF/PH-II/12 dated 19.01.2010 regarding change of the conditions. In this context, attention is invited to this Ministry's letter of even no. dt. 13.11.2009. The condition No. (xxii) be deleted and in condition (xxiii), the reference VOC be deleted.

The all other terms and conditions clearance letter of even no. dated 13.11.2009 remain unchanged.

Yours faithfully,


(Bharat Bhushan)
Director (IA)

Copy to:

1. The Principal Secretary, Director (Environment), Forests & Environment Department, Government of Gujrat, Block No. 14, 8th floor, Sachiyalaya, Gandhinagar – 382 010.
2. The Chairman, CPCB, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 32.
3. The Chairman, Andhra Pradesh State Coastal Zone management Authority & Additional Secretary, Government of Andhra Pradesh, Environment and Forests Science and technology Department, Secretariat, Hyderabad – 500 022
4. The Member Secretary, Andhra Pradesh Pollution Control Borad, Hyderabad.
5. The Chief Conservator of Forests, Ministry of Environment and Forests, Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No. 3, Ravishankar Nagar, Bhopal – 462016 (M.P.).
6. Guard File.
7. Monitoring Cell.


(Bharat Bhushan)
Director (IA)



भारत सरकार

GOVERNMENT OF INDIA

वाणिज्य और उद्योग मंत्रालय

Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन

Petroleum and Explosives Safety Organisation

(पूर्व नाम विस्फोटक विभाग)

(Formerly- Department of Explosives)

ए-ब्लॉक, पाँचवा तल, केन्द्रीय कार्यालय परिसर,

"A" Block, 5th Floor, CGO Complex,

सेमिनारी हिल्स, नागपुर - 480 006 (महाराष्ट्र)

Seminary Hills, Nagpur - 480006

Website: <http://peso.gov.in>
 Email: explosives@explosives.gov.in
 दूरभाष/Telephone: 0712-2510248
 फैक्स/FAX: 0712-2510577
 कार्यालयीन उद्देश्य के सभी पत्रादि "पुण्य
 विस्फोटक नियंत्रक" के पदनाम में भेजे जाएं
 अन्य अनिश्चित नाम में नहीं

All communications intended for this
 Office should be addressed to the
 'Chief Controller of Explosives' and
 NOT to him by name

संख्या /No. G.22 (47)180

दिनांक /Nagpur, Dated: 23/09/2024

To,

M/s. Adani Krishnapatnam Port Ltd.,
 PO Bag No 1, Muthukur Mandal,
 SPSR Nellore District,
 Andhra Pradesh-524344.

Sub: Permission for commissioning of handling of LPG (Refrigerated Propane, Refrigerated Butane) and Petroleum Products at Liquid Jetty L-4 at Adani Krishnapatnam Port, Nellore District, Andhra Pradesh Permission to operate – regarding.

Dear Sirs,

Please refer to Dy. Chief Controller of Explosives, Visakhapatnam's inspection report memo of even no. dated 26/09/2022 on the above subject and inspection by the officer on 25/09/2022 & your letter no. nil dated 23/01/2023 and confirming the compliance of OISD 156 & other related statutory provisions satisfactorily.

Since the subject construction of L-4 Jetty for handling of LPG (Refrigerated Propane, Refrigerated Butane) and Petroleum Products has been completed in all respect as per approval granted vide this office letter of even no. dated 18/01/2021, there is no objection to your commissioning L-4 Jetty for handling of LPG (Refrigerated Propane, Refrigerated Butane) and Petroleum Products under Manufacture, Storage & Import of Hazardous chemicals (MSHC) Rules, 1989 are strictly complied with.

Adequate safety precaution and SOP's shall be strictly followed to prevent any accident.

This approval/permission does not absolve you from obtaining necessary permission/clearances from other authorities or under other statutes as applicable.

The permission is valid for Three year up to 01/03/2026.

Your faithfully

(K. Thirugnanjan)

Jt. Chief Controller of Explosives
 for Chief Controller of Explosives

Explosives section; DPIS

Copy forwarded to the Dy. Chief Controller of Explosives, Visakhapatnam.

for Chief Controller of Explosives

GOVERNMENT OF ANDHRA PRADESH
STATE DISASTER RESPONSE & FIRE SERVICES DEPARTMENT

From :
The Director General,
State Disaster Response and Fire Services,
Andhra Pradesh, Vijayawada.

To :
The Management,
M/s Adani Krishna Patnam Port Ltd,
located at Muthukur (M), SPSR Nellore
District.

Re.No.8010/MSB/SR/NLR/2022, Dt: 12.10.2022.

Sir,

Sub: A.P. State Disaster Response and Fire Services Department -MSB Section- Issue of No Objection Certificate for Occupancy to M/s Adani Krishna Patnam Port Ltd, located at Muthukur (M), SPSR Nellore District - Regarding.

Ref: 1. AP Gazette Notification No. G.560 (W.No:2), Dated:18-01-2022
2. Application of M/s Adani Krishna Patnam Port Ltd, located at Muthukur (M), SPSR Nellore District.

-oOo-

The Management has requested for issuance of No Objection Certificate for Occupancy to the Existing Building of M/s Adani Krishna Patnam Port Ltd, located at Muthukur (M), SPSR Nellore District in the reference 2nd cited.

2) The Management constructed the Building with Ground + (05) Upper floors with a height of 18.90 Mtrs., with Built up area of 5424 Sq.Mtrs for Business Occupancy.

3) Previously, the Management has not obtained Provisional NOC from this Department and has now applied for No Objection Certificate for Occupancy.

4) **Particulars of the Building:**

a)	Address of the Building	:	M/s Adani Krishna Patnam Port Ltd, located at Muthukur (M), SPSR Nellore District.
b)	No. of Blocks/Floors	:	01 Block/ Ground + (05) Upper floors
c)	Height of the Building	:	18.90 Mtrs
d)	Total Built up area	:	4670.866 Sq.Mtrs
e)	Type of Occupancy	:	Business Occupancy

5) The Management has provided the following Means of Escape

S.No.	Details of Staircases	Required	Provided
1.	Internal Staircase	01.50 Mtrs.	02.00 + 02.00 = 04.00 Mtrs
2.	External Staircase	01.50 Mtrs.	02.00 Mtrs
Total:			06.00 Mtrs

6) The details of Occupant Load per Unit and Exit Width required and provided are furnished as below:

Sl. No.	Floor	Built up area in Sq. Mtrs.	Type of Occupancy	Occupant Load	Means of escape Required in Mtrs.	Provided in Mtrs.
1.	Ground	1058	Parking	Parking	Required	Provided
2.	First	1034	Business	103	01.03	06.00
3.	Second	1034	Business	103	01.03	06.00
4.	Third	1034	Business	103	01.03	06.00
5.	Fourth	690	Business	69	00.69	06.00
6.	Fifth	574	Business	57	00.57	06.00
Total:		5424				

Contd...2p

7) It is submitted that as per instructions of kind Director General, State Disaster Response and Fire Services, A.P., Vijayawada vide this Office Rc.No.5708/MSB/2021, Dated: 16-11-2021 on Fire Fighting system, the following Fire safety Equipment suggested to the management for installation instead of conventional system keeping in view of practicality, maintenance and resilience.

S.No	Fire Fighting Equipment	Prescribed	Provided	Deficit
1	Fire Extinguishers	ABC/CO2 type	92 Nos.	Nil
2	Underground parking /Cellar / Basement	Temperature Sensors connected "Hooter" and that can give alerts through cell phone	NA	Nil
3	Manual Call point	One number per floor	36 Nos.	Nil
4	Under Ground Static Water Tank (or) Terrace Water Tank	10,000 Ltrs (minimum)	20,000 ltrs at Terrace Tank	Nil
5	2 HP (Pump + Electrical Motors connected) @ one per floor connected to normal plumbing system instead of down comer/special pipes.	One per each floor	03 Nos-2HP 03 Nos-5HP	Nil

8) The Management has provided the following Electrical Safety system:

(i)	All Electrical wirings in the building shall confirm the code of practise for Electrical wiring IS:732:1989 and also shall confirm for Fire Safety Wiring of the building Electrical Installations as per IS:1646:2015. Most common mistake is that the neutral wires to the three pin plugs are not of sufficient thickness to carry the current in case of any short circuits.	:	Provided
(ii)	Installation of Miniature Circuit Breakers, (MCBs) in all floors.	:	Provided
(iii)	No Overloading of power socket in any Existing Building.	:	Yes
(iv)	10 years old wiring to be changed specially where ever high power consuming appliances such as Air conditioners, shopping complex, Data Centers, etc.,	:	NA
(v)	Grounding /Earthing shall be done. For details refer IS 3043:1987.	:	Provided
(vi)	Lightening conductors may be provided for high rise buildings exceeding 5 floors.	:	Yes
(vii)	No High Tension Lines should run inside or in close proximity (6 meters) to any Educational institution buildings.	:	Yes
(viii)	All the above safety measures shall be certified by the authorized Electrical Engineer.	:	Certified

9) In view of the above and based on the affidavit submitted by the Management the No Objection Certificate for Occupancy is issued to the existing building of M/s Adani Krishna Patnam Port Ltd, located at Muthukur (M), SPSR Nellore District for Business Occupancy that highest priority is accorded to Passive Safety measures such as ensuring two exits, not co-locating with highly inflammable shops having cloths, chemical or explosives and following Electrical Safety Checklist.

Contd...3p

10) It is informed that, the Management is requested to maintain the following conditions compulsorily for safety purpose.

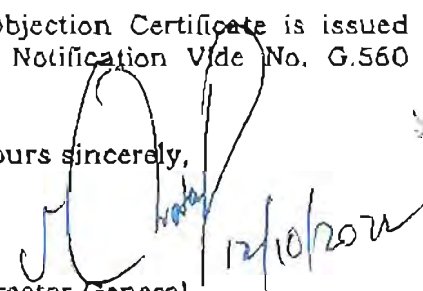
Sl.No.	As Builder	As occupant	As Security Personnel
1	All the fire protection arrangements shall be maintained in good condition as seen during inspection.	All the escape/exit routes shall not be kept locked/blocked or encroached	All the occupants must trained in correct method of operation of the fire fighting system installed.
2	Any loss of life or property due to non-functioning of fire safety measures and other installations shall be the responsibility of the management.	All occupants shall be trained to operate the fire safety equipments during emergency.	Mock drills should be conducted once in 3 months for initial two years. Thereafter, once in every 6 months.
3	Addition / alteration, if any in the building may be verified by building authority.	Mock drills should be conducted once in 3 months for initial two years. Thereafter, once in every 6 months.	All security personnel shall be trained to operate the fire safety equipments during emergency.
4	This No objection Certificate for occupancy is issued from Fire safety point of view.	Raise the alarm if the fire cannot be controlled; Evacuate the area completely at once with nearest safe exit.	Attack the fire using available fire equipment only if you feel capable of controlling. If not, take all steps to isolate the area by closing doors and windows.

11) This No Objection Certificate is issued, subject to the outcome of O.As/W.Ps etc., if any, before Courts etc.,

12) This No Objection Certificate for Occupancy is valid for a period of Five years from the date of issue of this letter to the management of M/s Adani Krishna Patnam Port Ltd, located at Muthukur (M), SPSR Nellore District. The Owner/ Occupier/ Builder/ Management concerned of the Building shall submit Self Declaration/Affidavit /Certification with regard to working condition of above Fire Safety System every year in the prescribed format and submit/upload the photographs of the Mock Drills conducted in the premises. It is the responsibility of the Builder to maintain the Fire Safety Equipment in good working condition at all times and apply for next Periodical Renewal of No Objection Certificate, duly remitting the User Charges as per G.O., two (02) months before expiry of this of No Objection Certificate.

13) The Management is hereby informed that this NO Objection Certificate is issued subjective to full compliance with provisions of Gazette Notification Vide No. G.560 (W.No.2), Dated.18-01-2022, including Mock Drills

Yours sincerely,


Director General,

State Disaster Response and Fire Services,
Andhra Pradesh, Vijayawada.

Copy to the Management of M/s Adani Krishna Patnam Port Ltd, located at Muthukur (M), SPSR Nellore District.

Note: In case of any emergency call to 101 or State Fire Control Room-9100108101.

GOVERNMENT OF ANDHRA PRADESH
STATE DISASTER RESPONSE & FIRE SERVICES DEPARTMENT

From :
The Director General,
State Disaster Response and Fire Services,
Andhra Pradesh, Vijayawada.

To :
The Management,
M/s Engineering Technology & Services
(ETS-1 & 2), Krishnapatnam,
Muthukur (M), SPSR Nellore District.

Rc.No.5116/NLR/DFO/2018 [MSB-SR], Dated: 12-10-2022.

Sir,

Sub: A.P. State Disaster Response and Fire Services Department-MSB Section-Issuance of Renewal of No Objection Certificate to the Existing Building of M/s Engineering Technology & Services (ETS-1 & 2) represented by G.Ravindranath belongs to Krishnapatnam Port Company Ltd., Krishnapatnam, Muthukur (M), SPSR Nellore District-Regarding.

Ref: 1. Occupancy NOC File No.5116/NLR/DFO/2018, Dt:20.11.2018 of District Fire Officer, SPSR Nelloe.
2. Renewal NOC File No.10067/NLR/DFO/2019, Dt:14.11.2019 of District Fire Officer, SPSR Nelloe.
3. AP Gazette Part II-Miscellaneous Notifications of interest to the Public vide No.G-560 (W.No.02), Dated:18.01.2022.
4. Application of M/s Engineering Technology & Services (ETS-1 & 2) represented by G.Ravindranath belongs to Krishnapatnam Port Company Ltd., Krishnapatnam, Muthukur (M), SPSR Nellore District.

The Management of M/s Engineering Technology & Services (ETS-1 & 2) represented by G.Ravindranath belongs to Krishnapatnam Port Company Ltd., Krishnapatnam, Muthukur (M), SPSR Nellore District has requested to issue Renewal of No Objection Certificate by duly remitting the Renewal Fee towards Fire Precautionary Fee vide reference 4th cited.

2) The No Objection Certificate for Occupancy Certificate was issued vide reference 1st cited to the Existing Building of M/s Engineering Technology & Services (ETS-1 & 2) represented by G.Ravindranath belongs to Krishnapatnam Port Company Ltd., Krishnapatnam, Muthukur (M), SPSR Nellore District with Ground + First Floor with a Height of 06.69 Mtrs., with Built-up area of 561.76 Sq.Mtrs., for Business Occupancy. Further, the Management has obtained Renewal of NOC from this Department vide reference 2nd cited.

3) The Management has submitted the Affidavit/Self Certification for Existing Building with Ground + First Floor with a Height of 06.69 Mtrs., with Built-up area of 561.76 Sq.Mtrs., and stated that they have provided the following Fire Safety measures also they declared that no additions or alterations have been made in the Building affecting Fire Prevention and Fire Safety measures including Means of Escape and that all Exits and Passages are free from any obstruction.

(contd....2p)

4) In view of the above and taking into consideration of the larger public interest and also based on the Affidavit/Self-Certification submitted by the management, the Renewal of No Objection Certificate is issued to the Existing Building of M/s Engineering Technology & Services (ETS-1 & 2) represented by G.Ravindranath belongs to Krishnapatnam Port Company Ltd., Krishnapatnam, Muthukur (M), SPSR Nellore District with Ground + First Floor with a Height of 06.69 Mtrs., with Built-up area of 561.76 Sq.Mtrs., for Business Occupancy that highest priority is accorded to Passive Safety measures such as ensuring two Exits, not Co-Locating with highly inflammable Shops having Cloths, Chemical or Explosives and following Electrical Safety Checklist.

5) It is suggested to the Management for providing the following Fire Safety measures keeping in view of Practicality, Maintenance and Resilience.

Sl. No.	Fire Fighting Equipment	Prescribed	Available with Nos.	Deficit
1	Staircases	Minimum (02) shall be Provided. If the Second Staircase is not possible, provide Slider or Tube Lift with Exhaust Fan (connected outside to Building) or German Chute or Horizontal connection between the neighborhood Buildings.	02 No.'s	Nil
2	Fire Extinguishers	ABC/CO2 type	26 No's.	Nil
3	Underground parking/ Cellar / Basement	Temperature Sensors connected to "Hooter" and that can be give alerts through Cell phone instead of Sprinklers.	Provided	Nil
4	Manual Call Point System	One Number per Floor	02 No.'s	Nil
5	Under Ground Static Water Tank (or) Terrace Water Tank	10,000 Ltrs. (Minimum)	U.G	-
			T.T	10,000 Ltrs.
6	Smoke Exhaust (Mobile) Fan shall be procured to expel the smoke in case of Fire.	Required	Provided	Nil
7	2 HP (Pump + Electrical Motors connected) @ one per Floor connected to Normal Plumbing System instead of Down Comer/Special Pipes.	One per each Floor (Total 02 Floors)	01 No.	Nil
8	5 HP (Mobile Pump + Petrol Engine on wheels connected to Ground Floor Sump) shall provide instead of Down Comer/Wet Riser System:	NA	01 No.	Nil
9	A/c Centrally Air Conditioned:	Fire Dampers	Provided	Nil
		Separation of Air Ducts to different Floors	Provided	Nil
10	Display the mentioned Phone Nos. at important areas.	(i) Fire Department Number (ii) Ambulance (iii) Police	Displayed	Nil

(contd....3p)

6) The Management has provided the following Electrical Safety system.

(i)	All Electrical wirings in the Building shall conform the code of practise for Electrical wiring IS:732:1989 and also shall conform for Fire Safety Wiring of the Building Electrical Installations as per IS:1646:2015. Most common mistake is that the neutral wires to the Three Pin plugs are not of sufficient thickness to carry the current in case of any Short Circuits.	:	Provided
(ii)	Installation of Miniature Circuit Breakers (MCB's) and to protect high power intensive equipment etc.,	:	Provided
(iii)	No Overloading of Power Sockets.	:	Provided
(iv)	Electrical wiring to be changed for every ten years, wherever high power consuming appliances such as Air Conditioners etc.,	:	Provided
(v)	LED lights in Closed Rooms, Corridors, Staircases connected to Inverter (Battery) to ensure well light pathways for Exit or Evacuation inspite of regular power failure in any Emergency.	:	Provided
(vi)	Grounding/Earthing Shall be done. For details refer IS 3043:1987.	:	Provided
(vii)	To install non pressurized Aerosol suppression system (or) CO2 Flooding system in Electrical Panel Rooms.	:	Provided
(viii)	Lightening Conductors shall be provided for more than 05 Floors Building.	:	NA
(ix)	All the above Safety measures shall be Certified by the authorized Electrical Engineer.	:	Certified

7) The Management has provided the following LPG Safety system [if Kitchen is provided]:

(i)	LPG Cylinders shall be located outside the kitchen with proper ventilation and protection from Rain and Sunlight.	:	NA
(ii)	LPG Detectors with Alarms shall be provided/installed.	:	NA
(iii)	There should be separation between Electrical Water Heaters and LPG Cylinders.	:	NA
(iv)	Five ways of putting up LPG Cylinder Fires (Pictorial/Cartoon) shall be displayed in the kitchen.	:	NA
(v)	Co2 Fire Extinguishers (Minimum 02 No's.) of 4.5 KG each shall be provided in the kitchen.	:	NA

8) It is informed that, the Management is requested to maintain the following conditions compulsorily for Safety purpose.

Sl. No.	As Builder	As Occupant	As Security personnel
1.	All the Fire protection arrangements shall be maintained in good working condition at all time.	The Escape/Exit routes shall not be kept Locked/Blocked or Encroached.	All the Occupants must be trained the correct method of operation of the Fire Fighting system installed.
2.	Any loss of life or property due to non-functioning of Fire Safety Measures and other Installations shall be the responsibility of the Management.	All Occupants shall be trained to operate the Fire Safety Equipment during Emergency.	Mock Drills should be conducted once in 03 months for initial two years. Thereafter, once in every 06 months.
3.	Addition/Alteration, if any in the Building may be verified by Building Authority.	Mock Drills should be conducted once in 03 months for initial two years. Thereafter, once in every 06 months.	All Security Personnel shall be trained to operate the Fire Safety Equipment during Emergency.
4.	This Renewal of No Objection Certificate is only from Fire Safety Point of View.	Raise the alarm If the Fire cannot be controlled, Evacuate the area completely at once with nearest Safe Exit.	Attack the Fire using available Fire Equipment only if you feel capable of controlling it. If not, take all steps to isolate the area by closing Doors and Windows.

9) The Management shall ensure the following conditions:

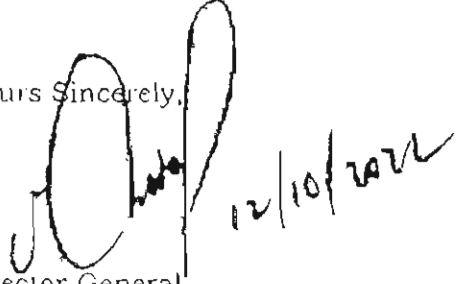
- (i) The Management is responsible for all risks involved in case of Fire Accident.
- (ii) This Renewal of NOC is given based on the information, Documents and Drawings provided by the Applicant. The Applicant confirms that the information provided and the Documents and Drawings submitted are correct. Any deviation noticed will lead to cancellation of NOC without any Notice.
- (iii) The permission accorded does not confer any Ownership rights. If it is found that the information furnished is false and fabricated, the permission will be revoked at any stage and the Applicant will be liable for criminal prosecution as per IPC.

10) This Renewal of No Objection Certificate is Issued, subject to the outcome of O.As/W.Ps etc., if any, before Courts etc.,

11) This Renewal of No Objection Certificate is valid for a period of Five (05) years from the date of issue of this letter subject to the Management of M/s Engineering Technology & Services (ETS-1 & 2) represented by G.Ravindranath belongs to Krishnapatnam Port Company Ltd., Krishnapatnam, Muthukur (M), SPSR Nellore District for Business Occupancy. The Owner/Occupier/Builder/Management concerned of the Building shall submit Affidavit/Self Declaration/Certification with regard to working condition of above Fire Safety system every year in the prescribed format and submit/upload the Photographs of the Mock Drills conducted in the premises. It is the responsibility of the Builder to maintain the Fire Safety Equipment in good working condition at all times and apply for next Periodical Renewal of No Objection Certificate, duly remitting the User Charges as per G.O, two (02) months before expiry of this Renewal of No Objection Certificate.

12) The Management is hereby informed that, this Renewal of NO Objection Certificate is issued subjective to full compliance with provisions of Gazette Notification vide No.G-560 (W.No.02), Dated: 18.01.2022 including Mock Drills.

Yours Sincerely,


Director General,

State Disaster Response and Fire Services,
Andhra Pradesh, Vijayawada.

Copy to the Director of Ports, Government of Andhra Pradesh.

Note: In case of any Emergency Call to 101 or State Fire Control Room-9100108101.

adani

Ports and
Logistics
AKPL/EHS/APPCB/Form-5/082/2024

Date: 26.09.2024

To

The Environmental Engineer
A.P. Pollution Control Board,
Regional Office,
SPSR Nellore District.



Sir,

Sub: - Adani Krishnapatnam Port Limited, Krishnapatnam (PO) Muthukur (M), SPSR Nellore Dist. - Environment Statement - FORM - V - Submitted - Reg.

Ref: - CTO & HWA Order No. APPCB/VJA/NLR/11344/CFO/HO/2019, dated 11.11.2022, valid up to 31.08.2027.

@@@

In compliance with the Consent & HW Authorization Condition No.6 stipulated in Schedule - A of CTO & HWA Order vide reference cited, and as per Rule No.14 of E(P) Rules.1986 & amendments thereof, submitting herewith the Environment Statement in Form V for the year 2023-2024.

Kindly acknowledge receipt of the same.

Thanking you.

Yours faithfully,

for Adani Krishnapatnam Port Limited.,

Dr. D. Jyothi
Vice President/Environment

Encl: Copy of Form - V - Environment Statement along with attachments.

Adani Krishnapatnam Port Ltd
PO Bag No 1
Muthukur Mandal
SPSR Nellore 524 344
Andhra Pradesh, India
CIN: U45203GJ1996PLC128239

TEL: +91 861 237 7999
Fax: +91 861 237 7046
www.adaniports.com

Registered Office: Adani Corporate House, Shantigram, Near Vaishno Devi Circle, S G Highway, Khodiyar, Ahmedabad 382 021, Gujarat, India



Ports and
Logistics
AKPL/EHS/APPCB/Form-5/082/2024

Date: 26.09.2024

To

The Environmental Engineer
A.P. Pollution Control Board,
Regional Office,
SPSR Nellore District.

Sir,

Sub: - Adani Krishnapatnam Port Limited, Krishnapatnam (PO) Muthukur
(M), SPSR Nellore Dist. - Environment Statement - FORM - V -
Submitted - Reg.

Ref: - CTO & HWA Order No. APPCB/VJA/NLR/11344/CFO/HO/2019, dated
11.11.2022, valid up to 31.08.2027.

@@@

In compliance with the Consent & HW Authorization Condition No.6 stipulated
in Schedule - A of CTO & HWA Order vide reference cited, and as per Rule
No.14 of E(P) Rules,1986 & amendments thereof, submitting herewith the
Environment Statement in Form V for the year 2023-2024.

Kindly acknowledge receipt of the same.

Thanking you.

Yours faithfully,
for Adani Krishnapatnam Port Limited.,

Dr. D. Jyothi
Vice President/Environment

Encl: Copy of Form - V - Environment Statement along with attachments.

ENVIRONMENTAL STATEMENT**FORM - V****(See Rule - 14)**

The Ministry of Environment & Forest vide its notification dated 13th March 1992 directed all industries which need to have consent under Water (Prevention & Control of Pollution) 1974 and Air (Prevention & Control of Pollution) 1981 to file the Environmental statement every year. This is to be filed for the period ending March by September 30th every year. The format for the same is as follows:

ENVIRONMENTAL STATEMENT FOR THE YEAR ENDING 31ST MARCH 2024**PART - A**

- I. Name and address of the owner / occupier of the industry, operation or process. : M/s. Adani Krishnapatnam Port Limited
Adani Corporate House, Shanti gram,
Nr Vaishno Devi Circle,
Corporate Office S.G Highway, Khodiyar, Ahemdabad-
382421, Gujarat.
- II. Site Office : M/s. Adani Krishnapatnam Port Limited
Post Box No. 1, Krishnapatnam Village
Muthukur Mandal
Sri Potti Sri Ramulu Nellore District
Andhra Pradesh - 524 344
- III. Operation or Process : Port - Services
- IV. Industry category Primary- : -----
(STC Code) Secondary- (STC Code)
- V. Production category. Units Services
- VI. Year of establishment : 2009
- VII. Date of the last environmental Statement submitted : **30.09.2023 for the period of 2022-2023**

PART - B

- i. Water and Raw Material Consumption :
Water consumption in m³/d Please refer Annexure A
Process:
Cooling:
Domestic:

Name of Products	Process water consumption per unit of products	
	During the previous financial year	During the current financial year
---	---	---



ii. Raw Material Consumption : Please refer Annexure B

Name of raw materials*	Name of Products	Process water consumption per unit of products	
		During the previous financial year	During the current financial year
Being a port activity, no raw material handling involved. Only handling various cargo is being carried out at AKPL.			

*Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries must name the raw materials used.

PART - C

I. Pollution Discharge into Environment /unit: **Please refer Annexure C**
of output (Parameter as specified in the consent issued)

Pollutants	Qty. of pollutants Discharged (Mass/day)	Concentration of pollutants in discharges(mass/volume)	Percentage of variation from prescribed standards with reasons
A. Water	-	-	-
B. Air	-	-	-

PART-D

I. **HAZARDOUS WASTE** : Please refer Annexure D
(As specified under Hazardous Wastes Management & Handling Rules, 1989).

Hazardous Wastes	Total Quantity (Kg)	
	During the Previous Financial year	During the current financial year
1. From Process	--	--
2. From Pollution Control facilities		

PART - E**I. SOLID WASTES:**

Solid Wastes	Total Quantity (Kg)	
	During the previous FTY 22-23	During the current FY23-24
a. From process	<p>From port operation i.e., handling and storage of cargo:</p> <ul style="list-style-type: none"> • Plastic waste, iron, aluminium & cardboard etc. are disposed to authorized recyclers/ re-processors permitted by Andhra Pradesh Pollution Control Board. - 3916.6 Tons of scrap was sold to authorized vendors for the FY 2022-2023. - Sludge generated from sewage treatment plant is being used as manure for development of green belt within the port premises. • 9.91 Tons is used as manure during the FY 2022-2023. 	<p>From port operation i.e., handling and storage of cargo:</p> <ul style="list-style-type: none"> • Plastic waste, iron, aluminium & cardboard etc. are disposed to authorized recyclers/ re-processors permitted by Andhra Pradesh Pollution Control Board. - 2357.37 Tons of scrap was sold to authorized vendors for the FY 2022-2023. - Sludge generated from sewage treatment plant is being used as manure for development of green belt within the port premises. • 7.16 Tons is used as manure during the FY 2023-2024.
b. From Pollution Control Facility	-	-
c. Quantity recycled or utilized within the unit.	-	-

PART - F

1. Please specify the characteristics (in : **Not Applicable** terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

PART - G

1. *Impact of the pollution control : Not Applicable measures taken on conservation of natural resources and consequently on the cost of production.*

PART - H

1. *Additional measures/investment : Please refer Annexure E proposal for environmental protection including abatement of pollution.*

PART - I**MISCELLANEOUS:**

Sl.	Any other particulars in respect of environmental protection and abatement of pollution.
1.	<p>World Earth Day 2024 on 22.04.2023. Awareness campaign on</p> <ul style="list-style-type: none"> • Environment sustainability, Protection measures to be adopted to save the environment • Significance & need of plantation • Discharging usage of single use plastic • Water conservation & Rainwater harvesting • Adopting Reduce, Reuse, Recycle method
2.	<p>Celebrated World Environment Day 5th June 2023, Adani Krishnapatnam Port actively participated in the green rally organized by the Andhra Pradesh Pollution Control Board - Nellore, in collaboration with the Nellore Municipal Corporation.</p> <ul style="list-style-type: none"> • The green rally commenced at VRC Grounds in Nellore and culminated at Shri Kasturbha Kalashetram Nellore. The event was honored by the M Hari Narayanan IAS, Collector and District Magistrate of SPSR Nellore, who graced the occasion as the chief guest and delivered a motivational speech to the participants. To raise awareness about the environment, the APPCB organized stage plays, and the district collector and magistrate flagged off the green rally. • Adani Krishnapatnam Port, in association with the Adani Foundation, conducted a sapling plantation drive in Krishnapatnam Village at various locations of the village, including in the houses of villagers. The functional heads from Adani Krishnapatnam Port and Adani Foundation guided kids in sapling plantation in the village at various places and raised awareness among the villagers about the significance of sapling plantation and the importance of avoiding products which are made of plastic. • An awareness session was conducted for field staff on plastic pollution and its effects on the environment. The session emphasized the significance of avoiding single-use plastics and explored alternative options for various purposes. The objective was to increase understanding among the staff about the detrimental impact of plastic on the environment and encourage them to adopt sustainable practices. The session aimed to raise awareness and promote the adoption of eco-friendly alternatives to single-use plastics.



	
	
<p>3 Celebrated World Oceans Day 8th June 2023, Adani Krishnapatnam Port has organized an Ocean cleanup program.</p> <ul style="list-style-type: none"> • Five fiber boats were flagged with adequate manpower, along with full safety measures and the required equipment, to clean up the ocean within the port limits. • In a mass gathering event in the evening session, employees made a pledge to avoid plastic products. In addition, awareness sessions were conducted by the Environment Cell.  	



4. Celebrated World Ozone Day, 16th September 2023, AKPL took a commitment pledge for ozone protection.

- 500 saplings planted at Dr. APJ Abdul Kalam Garden & other locations in port premises



5. AKPL has celebrated Global recycling day 2024 on 18th March, with the theme of "#Recycling Heroes".

- Promoted the importance of recycling
- Encouraged the employees to implement recycling & reuse at the house also to the extent possible.
- Discourage the utilization of single use plastic covers or things.
- Implement 3R's at home i.e. Reduce, Reuse, Recycle.



Awareness Campaign



Converted oil drums as waste collect



Plastic collection drive



- 6. Celebrated International Day of Forests on 21.03.2024. EHS team AKPL conducted "NATIVE TREE PLANTING CAMPAIGN" supporting local biodiversity.
 - On this occasion, AKPL organized a massive plantation programme and planted 2000 saplings involving all the departments.



- 7. Celebrated World Water Day on 22.03.2024 with theme of "Leveraging water for peace". The sustainable water management generates several benefits to individuals and communities, including:
 - Health
 - Food & energy security
 - Protection from natural disasters
 - Education & improved living standards and employment.
 - Economic development and a variety of ecosystem services.



8. **Promotion of Environment sustainability activities:**

Ganesh Chaturthi, distributed Clay Ganesh Idols among AKPL Employees & associates to promote environment sustainability.



ANNEXURE - A

Water Consumption details as per CTO:

Month	Water Consumption Details		
	Industrial Usage (KL)	Domestic Usage (KL)	Total KLD
23-Apr	70410	19780	90190
23-May	65420	19220	84640
23-Jun	64650	19450	84100
23-Jul	46500	18200	64700
23-Aug	53580	20100	73680
23-Sep	53250	19300	72550
23-Oct	51700	18700	70400
23-Nov	47700	17500	65200
23-Dec	31843.11	10220	42063
24-Jan	55885	13170	69055
24-Feb	60030	17560	77590
24-Mar	60820	18030	78850
Total Average Consumption (KLD)	1808.2	577.1	2385.3
Consent Qty/KLD	2350	650.0	3000

Month	During the Financial Year 2022-2023	During the Financial Year 2023-2024
STP Treated water (KL/Month)		
April-23	6539	6501
May -23	4437	6073
June-23	4692	5408
July- 23	4075	5654
August-23	6121	5904
September-23	7864	6016
October-23	5488	6082
November-23	6494	6322
December-23	5895	6419
January-24	6474	6359
February-24	6731	6637
March-24	7120	5941
Average KL/Month	5994.17	6109.67

Annexure – B

Cargo Handled at Adani Krishnapatnam Port – (April 2023 – March 2024)

Details of Cargo	Total Quantity (Kg)	
	Consented Quantity MMTPA	Commodities Handled in MMTPA
a) Coal	46	42.98
b) Iron Ore	8	5.05
c) General Cargo (Fertilizers, granites, Edible Oil and Lube oils, Others)	14	8.58
d) Liquid Cargo (POL, LNG, LPG, Chemical Products)	10	0.77
e) Container Cargo (MTEUsA)	2.0	0.11
Total	78 MMTPA + 2 MTEUsA	57.38 MMTPA+ 0.11MTeUs

Annexure – C**Water:**

AKPL being operated Sewage treatment facilities 500 KLD STP (1 X 300 KLD & 1 X 200 KLD) at CVR Amenities Complex 40 KLD STP near Admin. Building.

STP influent source	Treatment Technology	Quantity	Mode of final disposal
Domestic	Fluidized Bed Bio Reactor technique (FBBR)	540 KLD	Treated water is used for green belt within port premises.

The inlet and outlet wastewater are being monitored regularly as per the statutory regulations and the treated water is well within the statutory limits. The treated water is being used for green belt development only. AKPL is utilizing the Storm water for dust suppression purposes.

Air:

The facility has provided 3 no. of Continuous Ambient Air Quality Monitoring stations (CAAQMS) at CVR Amenities Complex, towards Thamminapatnam Village and towards Krishnapatnam Village for the parameter PM2.5, PM10, SO2, NOx, CO and NH3. The CAAQM Stations are calibrated by CPCB authorized agency.

Annexure – D

- I. E-Waste in **Form-III** : AKPL has submitted on 25.06.2024 for the financial year 2023-2024.
(Copy of Acknowledgement attached)
- II. Hazardous Waste in **Form-IV** : AKPL has submitted on 25.06.2024 for the financial year 2023-2024.
(Copy of Acknowledgement attached)
- III. Battery returns in **Form-VIII** : AKPL has submitted used on 25.06.2024 for the financial year 2023-2024.
(Copy of Acknowledgement attached)

ANNEXURE - E
COST OF ENVIRONMENTAL MEASURES FOR THE FY 2023-2024

S. No.	Facility Details	Description	Cost in Rs.
1	Dust Suppression system	DSS system Maintenance with including Vacuum sweeping machines & and Broom sweeping machines	7,962,638.00
2	STP maintenance	STP maintenance with includes Manpower and equipment repairing works.	1,002,200.00
3	500 KLD & 40 KLD power consumption cost	STP power consumption cost	2,642,623.00
4	Power consumption cost	Nakkala kaluva pump house power consumption cost	620,974.00
5	Water Cost - Nakkala Kaluva	Water consumption for Dust suppression system	1,746,360.00
6	Power consumption Cost	All Zones DSS pump houses Power consumption cost	668,329.00
7	Green belt Development	Sapling purchasing, JCB, Transport, Diesel, Fertilizers, Vehicle bills cost	7,890,389.00
8	South Truck Wheel wash facility	Establishment of South Truck Wheel wash facility	868,000.00
9	CAAQMS	Maintenance of existing 3 CAAQMS	339,148.00
10	Water Sampling & Analysis	Marine, Drinking, Sewage water sampling & analysis cost	900,000.00
		Total Amount	24,640,661.00



ANNEXURE B**Environmental measures in the Adani Krishnapatnam Port Limited**

- M/s Adani Krishnapatnam Port is a multi – purpose port located in the east coast of SPSR Nellore district of Andhra Pradesh. Krishnapatnam is a major economic gateway that caters to the land locked southern hinterland of India with multimodal connectivity.
- Commenced commercial operations in March 2009, as an all-Weather Port with Deep Draft Capable of Handling Capsize and Panamax Vessels, Round-The-Clock Navigation and provides Two Way Traffic for both Onshore & Offshore Logistics.
- AKPL is presently operating with 13 berths and with consented cargo handling capacity of 78 MMTPA for variety of Cargos of bulk and break bulk including coal, iron ore, Multi Cargo (Agri products, Slag, Limestone, Steel products etc.), Fertilizer, Gypsum, & 2MMTPA Container cargo with state-of-the-art cargo handling systems, mechanized storage facilities, railway sidings etc.,
- Out of which Berth No. N1 and N2 are Container berths, Berth No. N4, N6, N7, N8, NW1, NW2 & NW3 are fully mechanized berths.
- Berths N3, N5 & S4 are semi-mechanized berths. Berth no L4 is Liquid Jetty dedicated for POL products.



- AKPL is handling dry cargo such as coal, iron ore through mechanized system to the maximum extent possible and the Fertilizers, Food grains, Sugar, Cement & Cement Clinker, barites, Feldspar, Edible Oils are being handled through semi-mechanized system.
- Mechanical dust suppression system is provided at various critical points i.e., equipment (Hopper & reclaimer), hooded conveyor belts and the storage yards have been functioning well throughout the system. By using these measures, the port can mitigate all the dust that is being generated during the operations. The other berths are being used to handle other cargoes such as Project cargo, fertilizer (Urea), Sugar etc.
- The Pollution Control System is implemented, as a part of project, to mitigate the dust pollution, State of Art water sprinkling system at various locations. Around 30 people are working daily to operate the DSS.

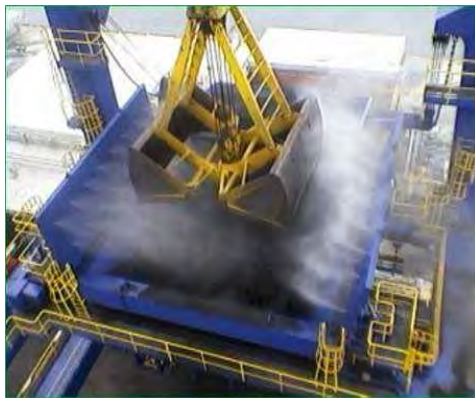
A handwritten signature in blue ink, consisting of stylized initials and a long horizontal stroke extending to the right.

- The DSS comprises of canons supported by electrical motors and operated at regular intervals to cover water fog all over cargo stacks and other areas. The water is sprayed from various points by water cannons at pressure of about 2-4 Kg/cm² to form a mist over the cargo stacks and other places and the mist attracts the dust to settle it down without spreading along the wind.
- Provided hooded conveyor for transferring dusty cargo to nearby industries like APGENCO, SEMBCORP and Penna Industries. Established Direct pipelines to nearby edible oil cluster industries to pump edible oil from vessels to industries.
- Operating 16 no. of hydraulic broom sweeping machines for cleaning of berths, backup and roads. Operating 2 nos vacuum sweeping machines to control dust on roads, berths & pavements.

1. Mechanized Operations:

The State of art mechanical dust suppression system is provided at various critical points i.e., equipment (Hopper & reclaimers), hooded conveyor belts and the storage yards have been functioning well throughout the system. Ensuring these measures, the Port can mitigate all the dust that is being generated during the operations. The other berths are being used to handle other cargos such as Project cargo, fertilizer (Urea), Sugar etc.

- AKPL using Grab ship unloaders and conveyers with water sprinkling system for handling coal from berths to storage yards and to nearby power plants which reduced dust generation, compared to dumpers for transporting coal.
- AKPL operating silo facility with telescopic chute system for loading the cargo in railway wagons. After those entire rakes covered with tarpaulin covers to avoid the fugitive spillages.
- Established fully mechanized and closed operations associated with mist sprinkling system to prevent fugitive emissions.
- Provided Dust suppression systems at Hoppers, discharge/feeding points of belt conveyors at each transfer tower.
- Provided and operating Stacker cum re-claimers for loading and unloading the coal. Dedicated mist sprinklers are provided to prevent fugitive emissions.



Mist Spraying Sytem



Silo Facility with teloscopic chute system

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Mechanized Infrastructure



Grab ship unloaders and Hoppers, discharge/feeding points

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2. Dust Suppression – Mechanical Dust Suppression System (MDSS) :

AKPL has Established Mechanical Dust Suppression System with 248 no's of water cannons at stack yards for dust suppression. The water cannons at 50 -100 metres intervals which covers a horizontal radius of approx. 50 meters and reaches a height upto 15 metres and rotates in 180 degrees.

The water is sprayed from various points by water cannons at pressure of about 2-4 Kg/cm² to form a mist over the cargo stacks and other places and the mist attracts the dust to settle it down without spreading along the wind.



Dust suppression through Sprinkling system in AKPL

Dust suppression through Tankers

Water sprinkling is being carried out on the general cargo berth and in other areas viz. Roads and yards through water tankers of 26 nos. to arrest the dust pollution causing by the vehicular movement in the port. AKPL is spending around Rs. 7 lakhs per month on an average towards water charges and maintenance.



Deployed 12 Nos. of Truck mounted sprinklers for roads and transit areas & stockpiles.

Dust suppression system through Atomizers

AKPL being operated 4 heavy duty atomizers as innovative technology in dust suppression system.

These Atomizers helpful to efficient water distribution in uniform spray patterns through pressurized nozzles. It reduced water consumption also.



As part of sustainable development activities, using these special devices ensure to prevent the dust pollution and to ensure the pollution parameters are within the permissible limits stipulated by statutory departments.

3. Truck/Wagon Tarpaulin Covering facilities:

AKPL established 14 No. of truck tarpaulin covering stations at various locations within the Port to facilitate and ensure all the outgoing cargos by Trucks are covered with tarpaulin.

AKPL ensuring that the tarpaulin is covered in all sides of the truck and tightly tied with rope to avoid transit spillages till the truck reaches the destination.



DS

Ensuring all the outbound cargo rakes are covered with tarpaulin and tightened with rope to avoid transit spillages.



4. Cargo covered with tarpaulin:

AKPL has been maintaining the tarpaulin covering on the cargos to the extent possible to avoid fugitive emissions.



5. Deployment of Road Sweeping Machines:

2 No of Heavy-Duty Vacuum Sweeping Machines are being deployed at operational areas and all internal roads.

Provided 8 No. tractor mounted hydraulic broom sweeping machines for cleaning the roads and jetty areas.



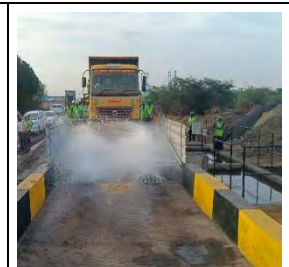
6. Truck Tyre washing facilities:

Provided 2 no. of automatic sensor-based truck/tyre washing facilities at north side and south side of the port to ensure of all the outgoing vehicles to avoid dust passage on to outside roads.

Truck tyre washing facility wheel washing facility is established with advanced technology which having cleaning water recycling & reusing system with oil skimmer facility.



North side of the Port



South side of the Port

7. Specific measures towards Habitation:

Erected wind breaking walls towards Krishnapatnam village and Arketpalem to prevent any dust transfer to habitation and a thick green belt developed supporting to the wind breaking wall to arrest the dust emissions to the villages.



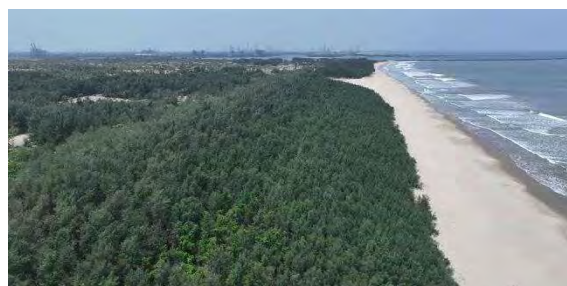
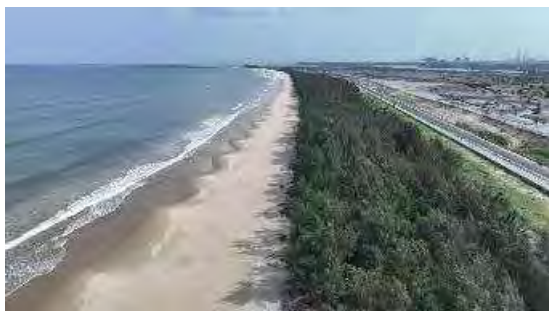
- Provided hooded conveyor for transferring dusty cargo.



AKPL maintained 100 m width of plantation towards port periphery and 20 m width around the coal stack yard zones as per the CTO condition.



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8. Environmental Monitoring Program in AKPL

As per the statutory guidelines AKPL appointed an authorized 3rd party agency, for monitoring of the environmental parameters of the port as well as nearby villages such as Krishnapatnam village, Gopala Puram Village, Chalivendram village and Thamminapatnam Village areas.

A. Ambient Air Quality

Operating 3 No. of CAAQM stations of Beta Ray Attenuation technology to measure the parameters NO_x, NH₃, SO₂, CO, PM 10, PM 2.5, at the following locations and data connected to APPCB website.

Station code	Location	Direction w.r.t. Project site	Coordinates Latitude & Longitudes	Distance from Port
CAAQMS - 1	At CVR Building	WNW	14°16'33.45"N 80° 5'54.46"E	1.4 KM
CAAQMS - 2	At Thamminapatnam Village	S	14°13'39.25"N 80° 6'5.84"E	2.5 KM
CAAQMS -3	At Krishnapatnam Village	NNW	14°16'47.69"N 80° 6'23.17"E	3.0 KM

		
Station - 1 CVR Amenities Complex	Station - 2 Thamminapatnam Village	Station - 3 Krishnapatnam Village

The Port appointed an NABL accredited SV Enviro Laboratories to monitor the air quality and submitting the Monitoring reports to APPCB on monthly basis along with the Compliance reports & to MoEF & CC on Half-Yearly basis.



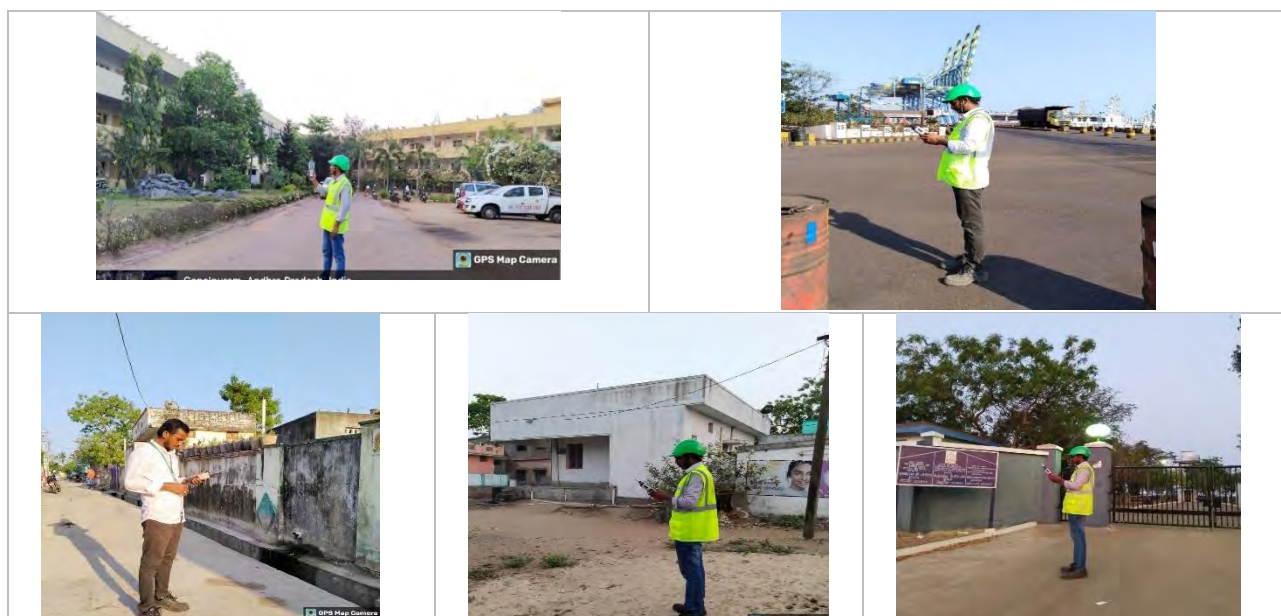
Station code	Location	Direction w.r.t. Project site	Coordinates Latitude & Longitudes	Distance from Port
A1	At Zero Point	W	14°16'2.44"N 80° 4'26.66"E	2.5 KM
A2	At Thamminapatnam Village	S	14°13'39.25"N 80° 6'5.84"E	2.5 KM
A3	At CVR Building	WNW	14°16'33.45"N 80° 5'54.46"E	1.4 KM
A4	At Gopalpuram Village	NW	14°16'41.22"N 80° 6'24.46"E	2.5 KM
A5	At Chalivendram	WNW	14°16'38.40" 80°5'11.84"	2.5 KM
A6	At Krishnapatnam	NNW	14°16'47.69"N 80° 6'23.17"E	3.0 KM
A7	At Light House	SW	14°17'37.33" 80°7'49.46"	2.5 KM

B. Noise Monitoring

Noise monitoring is being carried out as per the statutory regulations for the seven locations and the reports are well within the statutory limits and the same are being submitted to the APPCB monthly.

Station code	Location	Direction w.r.t. Project site	Coordinates Latitude & Longitudes	Distance from Port
A1	At Zero Point	W	14°16'2.44"N 80° 4'26.66"E	2.5 KM

A2	At Thamminapatnam Village	S	14°13'39.25"N 80° 6'5.84"E	2.5 KM
A3	At CVR Building	WNW	14°16'33.45"N 80° 5'54.46"E	1.4 KM
A4	At Gopalpuram Village	NW	14°16'41.22"N 80° 6'24.46"E	2.5 KM
A5	At Chalivendram	WNW	14°16'38.40" 80°5'11.84"	2.5 KM
A6	At Krishnapatnam	NNW	14°16'47.69"N 80° 6'23.17"E	3.0 KM
A7	At Light House	SW	14°17'37.33" 80°7'49.46"	2.5 KM



C. Ground Water quality monitoring

Ground water quality monitoring is being carried out on half yearly monthly basis as per the statutory regulations for the Krishnapatnam Port premises and reports are within the statutory limits and the same are being submitted to the APPCB along with 6 months report.

Location	Direction w.r.t. Project site	Coordinates	Distance from Port
South side of the Port	S	14°13'39.25"N 80° 6'5.84"E	2.5 KM
Port side	WNW	14°16'33.45"N 80° 5'54.46"E	1.4 KM
At Gopalpuram Village	NW	14°16'41.22"N 80° 6'24.46"E	2.5 KM
At Krishnapatnam	NNW	14°16'47.69"N 80° 6'23.17"E	3.0 KM



D. Marine Water / Sediment monitoring

The marine water and sediment quality monitoring is being carried out weekly basis of tidal sampling for the Four locations as

1. Port entrance (Approach Channel)
2. Turning Circle
3. Coal berth
4. Reclamation area (Mutable)

S.No	Location	Coordinates
1	Port entrance (Approach Channel)	14°14'53.66"N 80° 8'48.42"E
2	Turning Circle	14°14'49.35"N 80° 7'45.64"E
3	Coal berth	14°15'2.92"N 80° 7'42.16"E
4	Reclamation area (Mutable)	14°14'57.36"N 80° 8'17.74"E



Map Showing Marine sample collection Points

Physical, chemical and biological parameters were analysed for water as well as for sediment to assess the quality and the same is being submitted to the APPCB. The reports indicate that the waters are not having any noticeable contamination.



9. Environment Sustainability Measures:

a. Commitment towards Environment Sustainability:

AKPL is surrounded by human habitation and many major industries viz., Thermal Power Plants, Cement Industries, Edible Oil Industries etc., All the mitigation measures are being implemented & adopted to control the dust emissions.

AKPL is continuously evaluating the environmental impacts during port operations and will promote long-term environmental sustainability by continuing all the mitigation measures to prevent the dust pollution.

The funds allocated and utilized for Environmental Management for the last three years as below:

Item	Year 2021-22 (in Rs.Cr.)	Year 2022- 23 (in Rs.Cr.)	Year 2023 -24 (in Rs.Cr.)
Budget Allocated	9,33,80,083	9,02,55,160	9,64,83,786
Budget Utilized	6,83,10,659	6,16,76,369	9,48,68,251

b. Weather & Meteorological monitoring:

Installed Weather station on the top of Port Operation Control for weather forecasting & meteorological data generation.



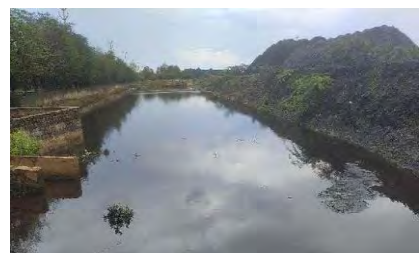
c. Water Conservation Measures:

Rainwater harvesting pits are provide across the port premises for recharging the ground water.

Settling ponds provided at yards for collection of yards runoff and the supernatant water is being used for dust suppression.

Rainwater harvesting pits around the buildings are being maintained.

Rainwater drains are being maintained periodically & pre-monsoon season to avoid stagnation & free flow of water and the water is using for dust suppression to the possible extent.



10. Sewage Treatment Plants:

STP Domestic sewage collected from office buildings from different locations of Port is being treated with FBBR technology in STPs of 500 KLD & 40 KLD and being used for greenbelt development.



500 KLD STP



40 KLD STP

The STP inlet & outlet water is being analyzed through a 3rd party agency on fortnight basis and as per the analysis reports, the values are meeting the prescribed standards of APPCB.



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Inlet and outlet sample collection

11. Waste Management in AKPL:

- **Hazardous waste (Waste oil)** – as per the CFO & HWA of APPCB, AKPL is permitted to generate & dispose of waste oil including bilge oil. AKPL is quantifying the waste oil and disposing to SPCB authorized Waste oil recyclers through APEMCL portal and submitting the details in Form – 4 to SPCB regularly. The latest submission is on 25.06.2024 for the Year 2023-2024.



E – Waste is being collected and disposed to SPCB authorized E-waste recyclers and submitting the details in Form – 3 to SPCB regularly. The latest submission is on 25.06.2024 for the Year 2023-2024.

Plastic waste is being collected and disposed of to SPCB authorized plastic waste recycling units.



- **Bio-Medical Waste** – Occupational Health Centre (OHC) to provided First Aid facility to the victims and generating very less quantity of Bio-Medical Waste. M/s. SS Bio Care an authorized Bio-medical waste Treatment Facility, Safe Collection, Transportation & disposal of properly segregated and packed BMW as per the norms.

Segregation of BMW through Bins



- **Battery Waste** is being collected and disposed of to SPCB authorized Battery waste recycling units.
-
- **Solid waste** Provided collection bins at about 120 locations for collection of dry & wet solid & domestic waste. Developed bin collection system with dedicated collection vehicles and manpower. Segregating recyclable at the source and being recycled through vendors. Biodegradable food waste is sent to the pig farms.

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12. Details of Green belt in Adani Krishnapatnam Port

Development of greenbelt is a continuous process in AKPL. Up to Financial year 2023-2024, the total plantation in the Port is about 196.25 Ha.

- Green cover needs to reduce the pollution levels
- Improve the standard of Ambient Air Quality
- Meet the statutory requirements & compliance.
- Reduce the carbon emissions

The environment department is fixing its own targets besides statutory requirements and achieving the targets from time to time.

The land available in AKPL is mostly sand dunes and salt pans which are not supportive for plantation.

AKPL developed a good plantation with saplings suitable for the available land and achieved good results.

Due to the Michaung Cyclone occurred in December 2024, the existing greenbelt was damaged badly. To achieve good and dense plantation, AKPL adopted Miyawaki plantation



Damaged Nursey due to Michaung cyclone



Present status of Nursery after cyclone

High Density Plantation (Miyawaki)

Miyawaki afforestation / plantation involves several different types of native plants closely just to form a Green Wall and a completely chemical free forest in an organic way that sustains itself, supports local biodiversity, and attracts birds and insects. In 'Miyawaki' forests, the trees grow more quickly and absorb more CO2 than plantations grown for timber.

Its benefits include lowering temperature, making soil nutritious, supporting local wildlife and sequestration of carbon.

With the spirit of Miyawaki type plantation, AKPL continued further plantation in Miyawaki method in the other locations, viz., LC3 location and Chalivendram boundary.

Below details show the periodical development of Greenbelt during the last 3 years:
Table

AKPL: Periodical Development of Greenbelt during the last 3 years				
S.no	Financial year	Target	Achieved	Survival
1	2021-2022	100000	103890	85 %
2	2022-2023	100000	103242	89 %
3	2023-2024	200000	220953	89%
	TOTAL	400000	428085	

Nursery:

AKPL Established an exclusive nursery in an extent of 4.5 Acres within the Port premises and maintaining about 1.9 L to 2.0 L saplings of Avenue, Ornamental & Fruit bearing species viz., Badam, Tabebuia argentea, Polyalthia longifolia, Spathodea campanulata, Samanea saman, Mangifera indica, Psidium guava, Bougainvillea, Pheonix palm, Ixora chinensis rosea, Pandanus Veitchi, Cocos Nucifera, Allamanda nerifolia, Bougainvillea Pedilanthus, Cassia fistula, Peltophorum, Cassia siamea, Delonix regia, Hibiscus rosa-sinensis, Clitoria ternatea, Casuarina Equisetifolia, etc.

The captive nursery played a significant role in restoration / reforestation after series of cyclones.

Photographs of Nursery & Greenbelt:



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AKPL: Green belt photographs



13. Mangrove Conservation In AKPL:

- Protecting and conserving the existing mangrove areas with suitable barricading, erection of display boards and ensuring the tidal flow. As a part of Phase I EC compliance, an area of 9 acres (3.64 ha) of mangroves are being conserved in the port areas since its inception.
- Mangrove restoration is to be considered as a viable option for enhancing the green belt cover.
- The proponent shall continue to restore mangroves in the suggested sites with


**"MANGROVE IS NOT JUST A TREE
MANGROVE IS LIFE."**

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<p>species like <i>Avicennia marina</i>, a resilient and common species along the creek.</p> <ul style="list-style-type: none"> ➤ Afforestation of mangrove cover along the creeks shall be continued and intensified. ➤ Raise awareness in the local community about the importance of mangroves and their importance. ➤ Measures should be taken for desilting the creeks for easy tidal water flow which will enhance the natural flushing leading to healthy growth of mangroves. ➤ Illegal cutting of mangroves during the construction and operation phase of port should be prevented. 	
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14. New Initiatives for effective Environment & Sustainability:

<ul style="list-style-type: none"> • Completed Electrification of Cranes & Compressor from diesel Cranes • Usage of EV 4 – wheelers for Employee transportation • Started plantation program 'Each One Own One Plant' with "Geotagging". • Converted 9 no's Liebherr cranes from diesel operated to Electrically operated. • Converted 1 diesel operated oil compressor to electrically operated. • All Marine tugs provided with shore power 100% while at jetty. • Established hooded conveyor belts to mitigate dust emission into the atmosphere. • Provided Fire hydrant system for Wagon loading station. • Provided facilities for truck tarpaulin covering stations of 14 nos. at various transit locations to facilitate and ensure tarpaulin coverage to all the outgoing cargo trucks. • Provided facilities for Railway Rake to ensure tarpaulin coverage to all the outgoing cargo rakes. 	 <p style="text-align: center;">EV vehicle</p>
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adani

Ports and
Logistics

Letter No AKPL/EHS/APPCB/ 2024-030

Date:20.06.2024

To

The Environmental Engineer,
A.P. Pollution Control Board
Regional Office
SPSR Nellore



Dear Sir,

Sub:- Adani Krishnapatnam Port Limited – E-Waste Annual Returns for the FY 2023-2024 – Form – 3 – Submitted – Reg.

Ref:- CFO & HWA order no APPCB/VJA/NLR/11344/CFO/HO/2019 dated 11.11.2022 valid up to 31.08.2027

@@@

In compliance with the conditions stipulated in CTO & HWA orders vide reference cited above we are herewith submitting the Annual Returns of Generation, Storage & Disposal of E – Waste for the FY year 2023 – 2024 in Form- 3 as per the E-Waste (Management) Rules, 2016 and amendments thereof.

Kindly acknowledge receipt of the same.

Yours sincerely,


Dr. D. Jyothi
Vice President - Environment

Encl: a/a

Adani Krishnapatnam Port Ltd
(Formerly AdaniKrishnapatnam Port Company Ltd)
PO Bag No 1, Muthukur, Akividal,
SPSR Nellore District, 524344
Andhra Pradesh, India
CIN: L26203AP1996PLDC23529

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info@adani.com
www.adaniports.com

Registered Office: Adani Corporate House, Shantigram, K.V. Krishna Devi Club & S. G. Highway, Chodhwar, Ahmedabad - 382421, Gujarat, India

FORM-3

[See rules 4(5), 5(5), 8(6), 9(4), 10(8), 11(9), 13 (1) (xi), 13(2)(v), 13(3)(vii) and 13(4)(v)]

FORM FOR FILING ANNUAL RETURNS

[To be submitted by producer or manufacturer or refurbisher or dismantler or recycler by 30th day of June following the financial year to which that return relates].

Quantity in Metric Tons (MT) and numbers

1	Name and address of the producer or manufacturer or refurbisher or dismantler or recycler	Adani Krishnapatnam Port Limited, Krishnapatnam (V), Muthukur (M) - 524344 SPSR Nellore Dist., Andhra Pradesh				
2	Name of the authorized person and complete address with telephone and fax numbers and e-mail address	Dr. D. Jyothi - Vice President – Env. Adani Krishnapatnam Port Limited, Krishnapatnam (P), Muthukur (M) - 524344 SPSR Nellore Dist., Andhra Pradesh Phone : 9441046788 jyothi@gangavaram.com akpl.ehs@adani.com				
3	Total quantity of e-waste collected or channelized to recyclers or dismantlers for processing during the year for each category of electrical and electronic equipment listed in the Schedule I (Attach list) by PRODUCERS	Nil* -				
	Sl. No.	Sale Order No.	Date	E - Waste Type	Quantity MT.	
	1.	-----	-----	-----	-----	
				Total		
	Details of the above			TYPE	QUANTITY	No.
3(A)*	BULK CONSUMERS: Quantity of e- waste			NIL	NIL	NIL
3(B)*	REFURBISHERS: Quantity of e-waste:			X	X	X
3(C)*	DISMANTLERS:			X	X	X
	i. Quantity of e-waste processed (Code wise);					
	ii. Details of materials or components recovered and sold;					
	iii. Quantity of e-waste sent to recycler;					
	iv. Residual quantity of e-waste sent to Treatment, Storage and Disposal Facility.					

3(D) *	RECYCLERS: i. Quantity of e-waste processed (Code wise); ii. Details of materials recovered and sold in the market; iii. Details of residue sent to Treatment, Storage and Disposal Facility.	X	X	X
4	Name and full address of the destination with respect to 3(A)-3(D) above	--		
5	Type and quantity of materials segregated or recovered from e-waste of different codes as applicable to 3(A)-3(D)	Type ---	Quantity ---	

Enclose the list of recyclers to whom e-waste has been sent for recycling.

Place: Krishnapatnam (P),
Muthukuru (M), SPSR Nellore Dist.
Andhra Pradesh

Date: 20.06.2024


Dr. D. Jyothi
Vice President - Environment

Signature of the authorized person

Note:-

- 1 * Strike off whichever is not applicable
- 2 Provide any other information as stipulated in the conditions to the authorizer
- 3 In case filing on behalf of multiple regional offices, Bulk Consumers and Producers need to add extra rows to 1 & 3(A) with respect to each office.

Letter No AKPL/EHS/APPCB/ /2024-29

Date:20.06.2024

To

The Environmental Engineer,
A.P. Pollution Control Board
Regional Office
SPSR Nellore



Dear Sir,

Sub: Adani Krishnapatnam Port Limited - Hazardous Waste Annual Returns for the FY 2023-2024 - Form - 4 - Submitted - Reg.

Ref: CFO & HWA order no APPCB/AJA/NLR/11344/CFO/HO/2019 dated 11.11.2022 valid up to 31.08.2027

@@@

In compliance with the conditions stipulated in CTO & HWA orders vide reference cited above we are herewith submitting the Annual Returns of Generation, Storage & Disposal of Hazardous Waste (Waste/Used Oil) for the year 2023 - 2024 in Form- 4 as per the Hazardous and other Waste (Management and Transboundary Movement) Rules, 2016 (HOWM Rules, 2016) and amendments thereof.

Kindly acknowledge receipt of the same.

Yours sincerely,

Dr. D. Jyothi
Vice President - Environment

Encl: a/a

Adani Krishnapatnam Port Ltd
Formerly Krishnapatnam Port Company Ltd
PO Bag No 7, Bilsachur Mandal,
SPSA Nellore District 524344
Auranga Pradesh, India
CIN: L45203AP7996PLC023529

Tel: +91 861 2379999
Fax: +91 861 237 7046
info@adaniport.com
www.adaniports.com

FORM 4
[See rules 6 (5), 13 (B), 16(6) and 20(2)]
FORM FOR FILING ANNUAL RETURNS

[To be submitted to state pollution control board by 30th day of June of every year for the preceding period April to March]

- Sl. No : Information
1. Name and address of facility : Adani Krishnapatnam Port Limited,
 Krishnapatnam (P),
 Muthukur (M) - 524344
 SPSR Nellore Dist.
 Andhra Pradesh
2. Authorization No. and Date of Issue : CTO & HWA Order No.
 APPCB/VJA/NLR/11344/CFO/HO/2019
 11.11.2022 valid up to 31.08.2027
3. Name of the authorized person and full Address with telephone, fax number and e-mail : Dr. D. Jyothi – Vice President – Env.
 Adani Krishnapatnam Port Limited,
 Krishnapatnam (P),
 Muthukur (M) - 524344
 SPSR Nellore Dist.
 Phone: 9441046788
jyothi@qanqavaram.com
akpl.ehs@adani.com
4. Production during the year : Cargo Handled April 2023 to March 2024
 Cargo handled 57.39MMT+0.11MTEUsA
 is (Coal, Iron ore, General Cargo, and Container cargo)

Part A. To be filled by hazardous waste generators

1. Total quantity of waste generated :
 Category wise

Previous Storage	Generation 2022 -23	Disposal 2022-23	Stored	Generation 2023 -24	Disposal 2023-24	Stored
Quantity in MT						
0.5	509.41	505.26	4.15	353.827	351.72	2.107*

2. Quantity dispatched :
- Waste Oil /Used Oil (Port equipment generated) : 31.54 MT**
- i. To disposal facility : N.A.
- ii. To recycler or co-processors or pre-processor : 31.54 MT
- To disposal facility through APEMCL : M/s. Jyothi Lubricants,
 Plot No.185, Kondapalli, Vijayawada,
 Andhra Pradesh.

Waste / Used Oil sludge generated in ships : 320.18 MT

To disposal facility through APEMCL : **88.06 MT** to
M/s. Supreme petro products
S.F. No225/1A2J,225/1A2K,
Matharpakkam Road, Eguvarpalayam(V)
,Gummidipoondi (Tal),
Tiruvallur District,Tamil Nadu State,

: **232.12 MT** to

M/s Sri Balaji Petrochem
No 52/ 2B, Chinnazambad Village,
Vijayapuram Mandal,Chittoor District,
Andhra Pradesh

3. Total to recycler or co-processors or pre-processor : **351.72 MT**

4. Quantity utilized In-house, if any- : **2.107 * MT**

5. Quantity In storage at the end of the year : **NIL**

Part B. To be filled by Treatment, Storage and disposal facility operators

1. Total quantity received - :

2. Quantity in stock at the beginning of the year :

3. Quantity treated :

4. Quantity disposed in landfills as such and after treatment. :

5. Quantity incinerated (if applicable) :

6. Quantity processed other than specified above- :

7. Quantity in storage at end of the year :

Part C. To be filled by recycler or co-processors or other users

1. Quantity of the waste received during the year- :

i) Domestic Sources

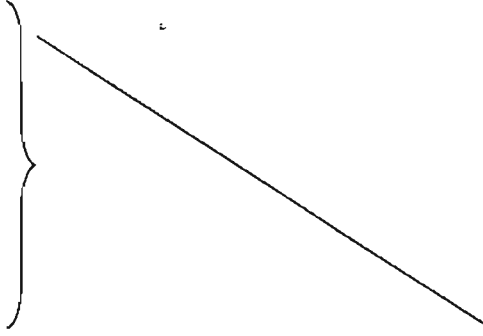
ii) Imported (if applicable)

2. Quantity in Stock at the beginning of year - :


3. Quantity recycled or co-processed or used- :

4. Quantity of product dispatched (wherever applicable) - :

5. Quantity of waste generated- :
6. Quantity of waste disposed- :
7. Quantity re-exported (wherever applicable) :
8. Quantity in the storage at the end of the year- :



Date: 20.06.2024
Place: Krishnapatnam (P),
Muthukur (M), SPSR Nellore Dist.


Dr. D. Jyothi
Vice President - Environment
Signature of the Occupier or
Operator of the Disposal facility

FORM 10
[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's Name & Mailing Address (Including PhoneNo. and email)	Name : Adani Krishnapatnam Port Limited Address: P.O. Bag No:1, Muthukur Mandal, SPSR Nellore Dist., A.P. - 524344, Phone No : 9866192789 Email: venugopalreddy.g@adani.com																
2	Sender's Authorisation No:	APPCB/VJA/NLR/11344/CFO/HO/2019 11/11/2022																
3	Manifest Document No:	86897																
4	Transporter Name & Mailing Address: (Including PhoneNo. and email):	Name: Jyothi Lubricants Address: plot no 185, IDA ,Kondapalli ,Vijayawada Phone No : 8300244004 Email : jyothilubricants@gmail.com																
5	Type of Vehicle:	Truck																
6	Vehicle Registration No:	AP16TJ2619																
7	Receiver's Name & mailing Address, (Including PhoneNo. and Email:	Name : Jyothi Lubricants Address: Plot No. 185-B, IDA,IDA, Kondapalli (V)brahimpatnam (M),Krishna Dist., Phone No : 8300244004 Email: jyothilubricants@gmail.com																
8	Receiver's Authorisation No:	K-1125/PCB/RO-VJACFOW&A/2017-																
9	Waste Description:	a) HW - Recyclable Waste - 5.1 Used or spent oil, Waste oil/Used oil from D.G Sets, Vehicles, dredgers and other machinery																
10	Total Quantity No. of Containers:	a) 10 - Tonnes, 1 Container																
11	Physical Form:	a) Liquid																
12	Special Handling Instructions & Additional Information:	Use PPE, use hand glove, use helmet																
13	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.																
	Name and stamp:	Signature: Acknowledged from IP: 163.118.195.98 <table border="1" style="float: right; text-align: center; border-collapse: collapse;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>3</td><td>0</td><td>0</td><td>8</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	3	0	0	8	2	0	2	3
D	D	M	M	Y	Y	Y	Y											
3	0	0	8	2	0	2	3											
14	Transporter acknowledgement of receipt of Wastes:																	
	Name and stamp:	Signature: Acknowledged from IP: 152.58.197.78 <table border="1" style="float: right; text-align: center; border-collapse: collapse;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>3</td><td>1</td><td>0</td><td>8</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	3	1	0	8	2	0	2	3
D	D	M	M	Y	Y	Y	Y											
3	1	0	8	2	0	2	3											
15	Receiver's certification for receipt of hazardous and other waste:																	
	Name and stamp:	Signature: Acknowledged from IP: 117.255.80.4 <table border="1" style="float: right; text-align: center; border-collapse: collapse;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>0</td><td>2</td><td>0</td><td>9</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	0	2	0	9	2	0	2	3
D	D	M	M	Y	Y	Y	Y											
0	2	0	9	2	0	2	3											

FORM 10
[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's Name & Mailing Address (Including PhoneNo. and email)	Name : Adani Krishnapatnam Port Limited Address: P.O. Bag No:1, Muthukur Mandal, SPSR Nellore Dist., A.P. - 524344, Phone No : 9866192789 Email: venugopalreddy.g@adani.com																						
2	Sender's Authorisation No:	APPCB/VJA/NLR/11344/CFO/HO/2019 11/11/2022																						
3	Manifest Document No:	87521																						
4	Transporter Name & Mailing Address: (Including PhoneNo. and email):	Name: Jyothi Lubricants Address: plot no 185, IDA ,Kondapalli ,Vijayawada Phone No : 6300244004 Email : jyothilubricants@gmail.com																						
5	Type of Vehicle:	Truck																						
6	Vehicle Registration No:	AP16TJ2619																						
7	Receiver's Name & mailingAddress, (Including PhoneNo. and Email:	Name : Jyothi Lubricants Address: Plot No. 186-B, IDA,IDA, Kondapalli (V)brahimpatnam (M),Krishna DisL, Phone No : 6300244004 Email: jyothilubricants@gmail.com																						
8	Receiver's Authorisation No:	K-1125/PCB/RO-VJACFOW&A/2017-																						
9	Waste Description:	a) HW - Recyclable Waste - 5.1 Used or spent oil, Waste oil/Used oil from D.G Sets, Vehicles, dredgers and other machinery																						
10	Total Quantity No. of Containers:	a) 4 - Tonnes, 17 Drum																						
11	Physical Form:	a) Liquid																						
12	Special Handling Instructions & Additional Information:	Use PPE while loading, unloading & Transit handling																						
13	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.																						
	Name and stamp:	Signature: Acknowledged from IP: 163.116.195.116					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>0</td><td>4</td><td>0</td><td>9</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	0	4	0	9	2	0	2	3
D	D	M	M	Y	Y	Y	Y																	
0	4	0	9	2	0	2	3																	
14	Transporter acknowledgement of receipt of Wastes:																							
	Name and stamp:	Signature: Acknowledged from IP: 117.255.48.44					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>0</td><td>4</td><td>0</td><td>9</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	0	4	0	9	2	0	2	3
D	D	M	M	Y	Y	Y	Y																	
0	4	0	9	2	0	2	3																	
15	Receiver's certification for receipt of hazardous and other waste:																							
	Name and stamp:	Signature: Acknowledged from IP: 117.213.209.107					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>0</td><td>5</td><td>0</td><td>9</td><td>2</td><td>0</td><td>2</td><td>3</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	0	5	0	9	2	0	2	3
D	D	M	M	Y	Y	Y	Y																	
0	5	0	9	2	0	2	3																	

FORM 10
[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's Name & Mailing Address (including PhoneNo. and email)	Name : Adani Krishnapatnam Port Limited Address: P.O. Bag No:1, Muthukur Mandal, SPSR Nellore Dist., A.P. - 524344. Phone No : 8868192789 Email: venugopalreddy.g@adani.com																						
2	Sender's Authorisation No:	APPCB/VJA/NLR/11344/CFO/HO/2019 11/11/2022																						
3	Manifest Document No:	120579																						
4	Transporter Name & Mailing Address: (including PhoneNo. and email):	Name: Coastal waste management project unit 2 - Repur Address: Coastal Waste Management Project (Unit-2) (A Subsidiary of M/s. Ramky Enviro Engineers Ltd.,) Govt.Veterinary polytechnic college opposite Road, Sy. No. 20-2P1, 20-2P2, 20-2P3, Raviguntapalli Village of Bojjanapalli Grampanchayat, Repur Mandal, SPSR Nellore District-524408, AP Phone No : 9154252960 Email : madhubabu@ramky.com																						
5	Type of Vehicle:	Special Vehicle																						
6	Vehicle Registration No:	AP39TK9054																						
7	Receiver's Name & mailing Address, (including PhoneNo. and Email:	Name : Coastal Waste Management Project (Unit-2) - Incinerator Address: Govt.Veterinary polytechnic college opposite Road, Sy. No. 20- 2P1, 20-2P2, 20-2P3, Raviguntapalli Village of Bojjanapalli Grampanchayat, Repur Mandal,SPSR Nellore District-524408, AP Phone No : 9154252951 Email: madhubabu@reastelnabillity.com																						
8	Receiver's Authorisation No:	APPCB/JH-IV/HWM/CFE/CWMP-NLR/2017																						
9	Waste Description:	a) HW - Incinerable Waste - 3.3 Sludge and filters contaminated with oil, Sludge and filters contaminated with oil																						
10	Total Quantity No. of Containers:	a) 1.12 - Tonnes, 1 Container																						
11	Physical Form:	a) Solid																						
12	Special Handling Instructions & Additional Information:	Use PPE while loading, unloading & Transit handling																						
13	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.																						
	Name and stamp:	Signature: Acknowledged from IP: 163.116.195.113					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>0</td><td>5</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	0	5	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y																	
0	5	0	3	2	0	2	4																	
14	Transporter acknowledgement of receipt of Wastes:																							
	Name and stamp:	Signature: Acknowledged from IP: 152.58.234.218					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>0</td><td>5</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	0	5	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y																	
0	5	0	3	2	0	2	4																	
15	Receiver's certification for receipt of hazardous and other waste:																							
	Name and stamp:	Signature: Acknowledged from IP: 47.247.120.234					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>0</td><td>7</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>		D	D	M	M	Y	Y	Y	Y	0	7	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y																	
0	7	0	3	2	0	2	4																	

FORM 10

[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's Name & Mailing Address (Including PhoneNo. and email)	Name : Adani Krishnapatnam Port Limited Address: P.O. Bag No:1, Muthukur Mandal, SPSR Nellore Dist., A.P. - 524344, Phone No : 9866192789 Email: venugopalreddy.g@adani.com																
2	Sender's Authorisation No:	APPCB/VJA/NLR/11344/CFO/HO/2019 11/11/2022																
3	Manifest Document No:	122847																
4	Transporter Name & Mailing Address: (Including PhoneNo. and email):	Name: SRI BALAJI PETROCHEM Address: No 52/ 2B, Chinnazambad village, Vijayapuram Mandal,Chittoor District, Andhra Pradesh -517588 Phone No : 8925842243 Email : gm@sbpetrochem.in																
5	Type of Vehicle:	Tanker																
6	Vehicle Registration No:	TN05AR1870																
7	Receiver's Name & mailing Address, (Including PhoneNo. and Email):	Name : Sri Balaji Petrochem Address: M/a. Sri Balaji Petrochem, Sy.No.52/2B, 52/3B, 52/4B, Chinnazambada (V), Vijayapuram (M), Chittoor District, Andhra Pradesh. Phone No : 8925842240 Email: sribalajipetrochem@gmail.com																
8	Receiver's Authorisation No:	Order No. CTR - 1747/APPCB/ZO-KNL/CTO &HWM/2023 Date:24.07.2023																
9	Waste Description:	a) HW - Recyclable Waste - 3.1 cargo residue, washing water and sludge containing oil, Oil containing cargo residue washing water and sludge from ships																
10	Total Quantity No. of Containers:	a) 18.94 - Tonnes, 1 Container																
11	Physical Form:	a) Sludge																
12	Special Handling Instructions & Additional Information:	Use PPE while loading, unloading & Transit handling																
13	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.																
	Name and stamp:	Signature: Acknowledged from IP: 163.116.219.55 <table border="1" style="float: right;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>1</td><td>9</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	1	9	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
1	9	0	3	2	0	2	4											
14	Transporter acknowledgement of receipt of Wastes:																	
	Name and stamp:	Signature: Acknowledged from IP: 103.99.110.218 <table border="1" style="float: right;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>1</td><td>9</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	1	9	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
1	9	0	3	2	0	2	4											
15	Receivers certification for receipt of hazardous and other waste:																	
	Name and stamp:	Signature: Acknowledged from IP: 157.47.85.104 <table border="1" style="float: right;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>2</td><td>1</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	2	1	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
2	1	0	3	2	0	2	4											

FORM 10

[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's Name & Mailing Address (Including PhoneNo. and email)	Name : Adani Krishnapatnam Port Limited Address: P.O. Bag No:1, Muthukur Mandal, SPSR Nellore Dist., A.P. - 524344, Phone No : 9866192789 Email: venugopalreddy.g@adanl.com																
2	Sender's Authorisation No:	APPCB/VJA/NLR/11344/CFO/HO/2019 11/11/2022																
3	Manifest Document No:	122949																
4	Transporter Name & Mailing Address: (Including PhoneNo. and email):	Name: SRI BALAJI PETROCHEM Address: No 52/ 2B, Chinnezambad village, Vijayapuram Mandal, Chittoor District, Andhra Pradesh -517586 Phone No : 8925842243 Email : gm@sbspetrochem.in																
5	Type of Vehicle:	Tanker																
6	Vehicle Registration No:	TN05BZ8285																
7	Receiver's Name & mailing Address, (Including PhoneNo. and Email:	Name : Sri Balaji Petrochem Address: Wa. Sri Balaji Petrochem, Sy.No.52/2B, 52/3B, 52/4B, Chinnazambada (V), Vijayapuram (M), Chittoor District, Andhra Pradesh. Phone No : 8925842240 Email: sribalajipetrochem@gmail.com																
8	Receiver's Authorisation No:	Order No. CTR - 1747/APPCB/ZO-KNL/CTO &HWM/2023 Date:24.07.2023																
9	Waste Description:	a) HW - Recyclable Waste - 3.1 cargo residue, washing water and sludge containing oil, Oil containing cargo residue washing water and sludge from ships																
10	Total Quantity No. of Containers:	a) 20.86 - Tonnes, 1 Container																
11	Physical Form:	a) Sludge																
12	Special Handling Instructions & Additional Information:	Use PPE while loading, unloading & Transit handling																
13	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.																
	Name and stamp:	Signature: Acknowledged from IP: 183.118.219.55 <table border="1"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>1</td><td>9</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	1	9	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
1	9	0	3	2	0	2	4											
14	Transporter acknowledgement of receipt of Wastes:																	
	Name and stamp:	Signature: Acknowledged from IP: 103.99.110.218 <table border="1"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>1</td><td>9</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	1	9	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
1	9	0	3	2	0	2	4											
15	Receiver's certification for receipt of hazardous and other waste:																	
	Name and stamp:	Signature: Acknowledged from IP: 157.47.72.251 <table border="1"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>2</td><td>2</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	2	2	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
2	2	0	3	2	0	2	4											

FORM 10
[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's Name & Mailing Address (Including PhoneNo. and email)	Name : Adani Krishnapatnam Port Limited Address: P.O. Bag No:1, Muthukur Mandal, SPSR Nellore Dist., A.P. - 524344. Phone No : 9888192789 Email: venugopalreddy.g@adani.com																
2	Sender's Authorisation No:	APPCB/VJA/NLR/11344/CFO/HO/2019 11/11/2022																
3	Manifest Document No:	124689																
4	Transporter Name & Mailing Address: (Including PhoneNo. and email):	Name: Supreme petro products Address: S.F.No225/1A2J,225/1A2K, Matharpakkam Road, Eguvarpalayam(V) ,Gummidipoondi (Tal), Tiruvallur District,Tamil Nadu State, TN-TN-TAMIL NADU Phone No : 9444431111 Email : supremepetroproducts@gmail.com																
5	Type of Vehicle:	Tanker																
6	Vehicle Registration No:	TN20AW4465																
7	Receiver's Name & mailing Address, (including PhoneNo. and Email):	Name : Supreme Petro Products (Waste Oil) Address: M/s. Supreme Petro Products(Waste Oil) S.F.No225/1A2J,225/1A2K, Matharpakkam Road, Eguvarpalayam(V) ,Gummidipoondi (Tal), Tiruvallur District,Tamil Nadu State Phone No : 9444431111 Email: supremepetroproducts@gmail.com																
8	Receiver's Authorisation No:	2408238379833																
9	Waste Description:	a) HW - Recyclable Waste - 3.1 cargo residue, washing water and sludge containing oil, Oil containing cargo residue washing water and sludge from ships																
10	Total Quantity No. of Containers;	a) 14.52 - Tonnes, 1 Container																
11	Physical Form:	a) Sludge																
12	Special Handling Instructions & Additional Information:	Use PPE while loading, unloading & Transit handling																
13	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.																
	Name and stamp:	Signature: Acknowledged from IP: 163.116.219.58 <table border="1" style="float: right; text-align: center; border-collapse: collapse;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>2</td><td>8</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	2	8	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
2	8	0	3	2	0	2	4											
14	Transporter acknowledgement of receipt of Wastes:																	
	Name and stamp:	Signature: Acknowledged from IP: 49.47.241.51 <table border="1" style="float: right; text-align: center; border-collapse: collapse;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>2</td><td>8</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	2	8	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
2	8	0	3	2	0	2	4											
15	Receiver's certification for receipt of hazardous and other waste:																	
	Name and stamp:	Signature: Acknowledged from IP: 49.47.241.51 <table border="1" style="float: right; text-align: center; border-collapse: collapse;"> <tr> <td>D</td><td>D</td><td>M</td><td>M</td><td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> <tr> <td>2</td><td>9</td><td>0</td><td>3</td><td>2</td><td>0</td><td>2</td><td>4</td> </tr> </table>	D	D	M	M	Y	Y	Y	Y	2	9	0	3	2	0	2	4
D	D	M	M	Y	Y	Y	Y											
2	9	0	3	2	0	2	4											

Letter No AKPL/EHS/APPCB/11344/2024-031

Date: 20.06.2024

To

The Environmental Engineer,
A.P. Pollution Control Board
Regional Office
SPSR Nellore



Dear Sir,

Sub:- Adani Krishnapatnam Port Limited - E-Waste Annual Returns for
the FY 2023-2024 - Form - B - Submitted - Reg.

Ref:- CFO & HWA order no APPCB/VJA/NLR/11344/CFO/HO/2019 dated
11.11.2022 valid up to 31.08.2027

@@@

In compliance with the conditions stipulated in CTO & HWA orders vide
reference cited above we are herewith submitting the Annual Returns of
Generation, Storage & Disposal of Used Batteries for the FY year 2023 - 2024
in Form - B as per the Batteries (Management & Handling) Rules, 2016 and
amendments thereof.

Kindly acknowledge receipt of the same.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'D. Jyothi'.

Dr. D. Jyothi
Vice President - Environment

Encl: a/a

Adani Krishnapatnam Port Ltd
Adani Krishnapatnam Port Company Ltd
PO Box No 1, Bonthukur, Mandal,
SPSR Nellore District, 524344
Andhra Pradesh, India
CIN: L43202AP1996PLC23529

Tel: +91 861 237499
Fax: +91 861 237 7046
info@adani.com
www.adaniports.com

FORM VIII
[see rule 10 (2) (ii)]

FORM FOR FILING RETURNS FOR BULK CONSUMER OF BATTERIES
[To be submitted by the bulk consumer to the State Board by 30th June
(for the period October-March) and 31st December (for the period April-September)
every year]

1.	Name and Address of the bulk consumer	Adani Krishnapatnam Port Limited, Krishnapatnam Village, Muthukur Mandal, 524344 SPSR Nellore Dist., Andhra Pradesh.
2.	Name of the Authorized person and full address with telephone and fax number	Dr. D. Jyothi - Vice President (Env) Adani Krishnapatnam Port Limited, Krishnapatnam (P), Muthukur (M) - 524344 SPSR Nellore Dist., Andhra Pradesh Phone : 9441046788 jyothi@gangavaram.com akpl.ehs@adani.com
3.	Number of new batteries of different categories purchased from the manufacturer/importer/dealer or any other agency during October-March and April - September Category: (i) Automotive (a) four wheelers (b) two wheelers (ii) Industrial (a) UPS (b) Motive Power (c) Stand-by (iii) Others	(i) No. of Batteries - 214* (i) Approximate weight - 10.78 (in Metric Tons)
4.	Number of used batteries of categories mentioned in Sl. No. 3 and Tonnage of scrap sent to manufacturer/ dealer/ Importer/ registered recycler/ or any other agency to whom the used batteries scrap was sent*.	M/s. Jayvel Enterprises, Plot No.26 A, KIADB Malur Industrial Area, Malur, Kolar - 563130 Karnataka

**10.78 MT of Battery waste is sent to registered recycler
(2.4 MT Acid battery scrap + 8.38 MT without acid battery scrap)

- Enclose list of manufacture/dealer/importer/registered recyclers/or any other agency to whom the used batteries scrap was sent.

Place: Krishnapatnam (P), Muthukur (M)
SPSR Nellore Dist., Andhra Pradesh

Date: 20.06.2024


Dr. D. Jyothi
Vice President - Environment

Signature of the authorized person

ADANI KRISHNAPATNAM PORT LTD
 PO BOX 1, VILLAGE: OOPALAPURAM, MANDAL MUTTIKURU
 NELLORE-520301, ANDHRA PRADESH, INDIA
 PAN No. : AAACK0657J
 CIN No. : U45203031996PLC128239
 GSTIN : 37AAACK0657J121
 State Code : 37



adani

Tax Invoice

To : JAYVEL ENTERPRISE PLOT NO 26A KIADU, MALUR INDUSTRIAL AREA MALUR, KOLAR-563130, KARNATAKA,INDIA PAN No : AAFF1334BF GSTIN : 29AAFF1334BF120 Place of supply KARNATAKA,INDIA State Code 29	Invoice No: 193700001377 Order No : 1143503325 PO No WS1066040640 Buyer JAYVEL ENTERPRISE PLOT NO 26A KIADU, MALUR INDUSTRIAL AREA MALUR, KOLAR-563130, KARNATAKA,INDIA GSTIN 29AAFF1334BF120 State Code:29 SAP Ref No:3138504312	Date: 13.03.2024 Date 12.03.2024 Date 19.02.2024
--	---	---

IBAN No.:	193700001377	Supply Type Code	92A
IBAN No.:	193700001377	Sub Supply Type	Supply
IBAN No.:	193700001377	Parenting Invoice Date	
IBAN No.:	193700001377	Tax Scheme	GST

SN	Item Description	Quantity	UoM	Area	Per	Amount(INR)
1	BATTERIES (VVO ACIO) MSWSAC No.83489000	8,380	Mt	80,400.00	1	673,752.00
	W-imp@125G51				18%	121,275.36
	S&S@TCS B&B 1%				1%	7,950.20
Total Value:						802,977.56

Amount in words: Rupoo Eight Lakh Two Thousand Nine Hundred Savanty Seven And Paise Sixty Four Only

Payment : 100% Advance Payment **Incoterm** : Ex-Works

For ADANI KRISHNAPATNAM PORT LTD
 Authorized Signatory

ADANI KRISHNAPATNAM PORT LTD
 PO BOX 1, VILLAGE: OOPALAPURAM, MANDAL MUTTIKURU
 NELLORE-520301, ANDHRA PRADESH, INDIA
 PAN No. : AAACK0657J
 CIN No. : U45203031996PLC128239
 GSTIN : 37AAACK0657J121
 State Code : 37

ADANI KRISHNAPATNAM PORT LTD
 PO BOX 1, VYLADE: DOPALAPURAM, MANDAL: MUTHUKUD
 NELLORE-144, ANDHRA PRADESH, INDIA
 PAN NO. : AAACK8657J
 CIN NO. : U05203BJ1996PLC128230
 GSTIN : 37AAACK8657J121
 State Code : 37



adani

Tax Invoice

To:
 JAYVEL ENTERPRISE
 PLOT NO 26A KILDB
 MALUR INDUSTRIAL AREA, MALUR,
 KOLAR-563130,
 KARNATAKA, INDIA
 PAN No : AAFFJ7390P
 GSTIN : 29AAFFJ7390P120
 Place of supply: KARNATAKA, INDIA
 State Code: 29

Invoice No: 193700000119
 Order No : 1143502373
 PO No : DPAKAPL-2023-0160
Buyer: JAYVEL ENTERPRISE
 PLOT NO 26A KILDB,
 MALUR INDUSTRIAL AREA, MALUR,
 KOLAR-563130,
 KARNATAKA, INDIA
 GSTIN: 29AAFFJ7390P120
 State Code: 29
 SAP Ref No. 3130303051

Date: 27.04.2023
 Date: 26.04.2023
 Date: 17.03.2023

IRN No. 193700000119	CGST: 06.00%	SGST: 06.00%	Supply Type Code	B2B
Invoice No	119	119	Sub Party Type	Supplier
Document Type Code	INV		Preceding Invoice Date	
Preceding Invoice Number			Tax Scheme	GST
Transaction Mode	Receipt			

SNo	Item Description	Quantity	UoM	Rate	Per	Amount (INR)
1	200 Ball of Scrap MSN/SAC No: 87409000	2	100 MT	54,200.00		1,08,400.00
				18%		19,512.00
				1%		1,084.00
						Total Value: 1,28,996.00

Amount in words: Rupee One Lakh Fifty Four Thousand Twenty Nine And Paise Thirty Five Only

Payment : 100% Advance Payment Inco Terms : Ex-Works

For ADANI KRISHNAPATNAM PORT LTD
RAGHUNATH BYSANI Digitally signed by RAGHUNATH BYSANI
 Authorised Signatory

For ADANI KRISHNAPATNAM PORT LTD

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1. Sender's name and mailing address (including Phone No. and e-mail)	A. K. S. Srinivasan P. O. Co. Ltd Mysore.			
2. Sender's Authorisation No.				
3. Manifest Document No.	JAYVEL ENTERPRISE			
4. Transporter's name and address (including Phone No. and e-mail)	7th 34 89505 (Truck/Tanker/Special Vehicle)			
5. Type of Vehicle				
6. Transporter's Registration No.	306751			
7. Vehicle Registration No.	KD01AD4622			
8. Receiver's name and mailing address (including Phone No. and e-mail)	JAYVEL ENTERPRISE Plot No 26A, #1AD1, Mysore Industrial Area Major 503110 Mysore District Karnataka CPCO REG. NO 13306			
9. Receiver's Authorisation No.	306722			
10. Waste Description				
11. Total Quantity No. of Containers	9. Litre Wt.	m ³ or MT		
	9. Gallon	No.		
12. Physical form	(S) or (Sl) or (Ss) or (Sludge) or (Tarry) or (Slurry) or (Liquid)			
13. Special handling instructions and additional information				
14. Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled and are in all respects in proper conditions for transport by road according to applicable national government regulations			
Name and Stamp	Signature	Month	Day	Year
		2	7	20
15. Transporter acknowledgement of receipt of Wastes				
Name and Stamp	Signature	Month	Day	Year
	S. Mahendraraj	2	7	20
16. Receiver's certification for receipt of hazardous and other waste				
Name and Stamp	Signature	Month	Day	Year
	S. Mahendraraj	2	7	20
Copy 1 (White)	To be forwarded by the sender to the State Pollution Control Board after signing all the Seven copies			
Copy 2 (Yellow)	To be retained by the sender after taking signature on it from the transporter and the rest of the five signed copies to be carried by the transporter			
Copy 3 (Pink)	To be retained by the receiver (actual user or treatment storage and disposal facility operator) after receiving the waste and the remaining four copies are to be duly signed by the receiver.			
Copy 4 (Orange)	To be handed over to the transporter by the receiver after accepting waste			
Copy 5 (Green)	To be sent by the receiver to the State Pollution Control Board.			
Copy 6 (Blue)	To be sent by the receiver to the sender			
Copy 7 (Grey)	To be sent by the receiver to the State Pollution Control Board of the sender in case the sender is in another State.			

FORM 10
(Sea Rule 19 (1))
MANIFEST FOR HAZARDOUS AND OTHER WASTE

1. Sender's name and mailing address (Including Phone No. and e-mail)	A. Anand Krishna Patil P.O. Ltd Mudholur		
2. Sender's Authorisation No.			
3. Manifest Document No.			
4. Transporter's name and address: (Including Phone No. and e-mail)	JAYVEL ENTERPRISE 914 84 89 005		
5. Type of Vehicle	(Truck/Tanker/Special Vehicle)		
6. Transporter's Registration No.	306751		
7. Vehicle Registration No.	KA01AA7563		
8. Receiver's name and mailing address (Including Phone No. and e-mail)	JAYVEL ENTERPRISE Plot No. 28A, KIADB, Malur Industrial Area, Malur-563 130. Kolar District, Karnataka. CPCB REG. NO.: 3206		
9. Receiver's Authorisation No.	306622		
10. Waste Description	SCRAP METALS		
11. Total Quantity No. of Containers	8380 KGS m ³ or MT Nos		
12. Physical form	(Solid/Semi-Solid/Sludge/Oily Tarry/Sticky/Liquid)		
13. Special handling instructions and additional information			
14. Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorized, packed, marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.		
15. Transporter acknowledgement of receipt of Wastes	Name and Stamp	Signature	Month Day Year 03/13/2024
	Name and Stamp	Signature	Month Day Year 03/13/2024
16. Receiver's certification for receipt of hazardous and other waste	Name and Stamp	Signature	Month Day Year 03/13/2024
	Name and Stamp	Signature	Month Day Year 03/13/2024
Copy 1 (White):	To be forwarded by the sender to the State Pollution Control Board after signing all the seven copies.		
Copy 2 (Yellow):	To be retained by the sender after taking signature on it from the transporter and the rest of the five signed copies to be carried by the transporter.		
Copy 3 (Pink):	To be retained by the receiver (actual user or treatment storage and disposal facility operator) after receiving the waste and the remaining four copies are to be duly signed by the receiver.		
Copy 4 (Orange):	To be handed over to the transporter by the receiver after accepting waste.		
Copy 5 (Green):	To be sent by the receiver to the State Pollution Control Board.		
Copy 6 (Blue):	To be sent by the receiver to the sender.		
Copy 7 (Gray):	To be sent by the receiver to the State Pollution Control Board of the sender in case the sender is in another State.		

Ref. No. AKPL/EC/APPCB/125/2024-25

Date: 09.01.2025

To

The Environmental Engineer,
A.P. Pollution Control Board,
Regional Office
SPSR Nellore,
Andhra Pradesh



Dear Sir,

Sub:- Adani Krishnapatnam Port Limited (AKPL) - Complying with Condition para No. 10 of Phase II Amended EC & CRZ dated 22.08.2016-Submission of Environmental Monitoring report - Reg.

Ref:- 1. Issue of Show cause Notice F.No. 19-122/2011-IA-III, dated 11.01.2013,
2. EC & CRZ clearance for Phase II Development of KPCL at SPSR Nellore F.No. 11-62/2009-IA,III, dated 02.06.2015.
3. Amend EC & CRZ Clearance for Phase II Development of KPCL para No.10 F.No. 11-62/2009-IA,III dated 22.08.2016.

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We submit that Adani Krishnapatnam Port Limited (AKPL) is an operational port located at Krishnapatnam (Village & Post), Muthukur (M), SPSR Nellore District.

The Ministry of Environment, Forests & Climate Change, New Delhi has accorded Environmental & CRZ Clearance to AKPL vide reference cited above for the development of Port under EC & CRZ clearance for Phase II Development of KPCL at SPSR Nellore with letter No. F.No. 11-62/2009-IA,III, dated 02.06.2015 and Amendment of EC & CRZ Clearance for Phase II Development of KPCL with letter No.F.No. 11-62/2009-IA,III dated 22.08.2016. (Copy of the EC & CRZ Clearance is attached herewith for your kind reference).

As per the Phase II Amended EC & CRZ letter No. F.No. 11-62/2009-IA,III dated 22.08.2016 Condition under para No. 10 stipulates that:

"The APCZMA is requested to essentially monitor the development activities of the company and take action under the law in case of violation, if any. In addition, National Centre for Sustainable Coastal Management (NCSCM) together with Society of Integrated Coastal Management (SICOM) shall undertake monitoring once in four years to ensure that no further violation takes place even unintentionally." However the copy of Annual report submitted by the Project Proponent to the Regional Office should be made available to NCSCM.

Adani Krishnapatnam Port Ltd
PO Bag No 1, Muthukur Mandal,
SPSR Nellore District 524344
Andhra Pradesh, India
CIN: U45203AP1996PLC023529

Tel +91 861 237 7999
Fax +91 861 237 7046
info@adani.com
www.adaniports.com

adani

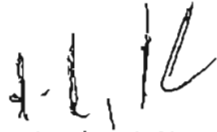
Ports and
Logistics

Complying with the above condition, a detailed Environmental Monitoring of Phase II development of AKPL was prepared through M/s. National Centre for Sustainable Coastal Management (NCSCM). As per the MoEF & CC, EC & CRZ Clearance.

We, therefore submitting herewith the First and second Half yearly Monitoring reports to comply with the Phase II EC & CRZ Clearance stipulated condition.

Thanking You,

Yours Faithfully,
For M/s Adani Krishnapatnam Port Limited,



(Authorized Signatory)

Encl: a/a

CC: The Member Secretary,
Andhra Pradesh Coastal Zone Management Authority (APCZMA),
O/o Andhra Pradesh Pollution Control Board,
Paryavaran Bhavan, APPIIC Colony Road, Gurunanak Colony,
Autonagar, Vijayawada - 520007.

Adani Krishnapatnam Port Ltd
PO Bag No 1, Muthukur Mandal,
SPSR Nellore District 524344
Andhra Pradesh, India
CIN: U45203AP996PLC023529

Tel +91 861 237 7999
Fax +91 861 237 7046
info@adanl.com
www.adaniports.com



ANDHRA PRADESH POLLUTION CONTROL BOARD
D.No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre,
Chalamalavari Street, Kasturibaipet, Vijayawada – 520010.

Website: www.pcb.ap.gov.in

CONSENT ORDER FOR ESTABLISHMENT

Order No: 633/APPCB/CFE/RO-NLR/HO/2010

Dt. 25.02.2021

Sub: **APPCB – CFE - M/s. Krishnapatnam Port Co. Ltd., Krishnapatnam (V), Muthukur (M), SPSR Nellore District – Consent for Establishment (CFE) Expansion of the Board under Sec.25 of Water (P & C of P) Act, 1974 and Under Sec.21 of Air (P & C of P) Act, 1981 - Issued - Reg.**

- Ref:
1. CFE order No.633/PCB/CFE/RO-NLR/HO/2010, dt.08.05.2010.
 2. CFE amendment order dt. 22.02.2018 for change of Cargo mix without change in overall cargo handling capacity
 3. EC & CRZ clearance order dt.11.01.2021 accorded for Port development by the MoEF & CC, GOI, under Phase-III.
 4. CFE application received on 27.01.2021 through APOCMS.
 5. R.O's inspection report dt. 12.02.2021.
 6. CFE Committee meetings held on 18.02.2021 & 23.02.2021.
 7. Proponent Ir dt.19.02.2021

1. In the reference 4th cited, an application was submitted to the Board seeking Consent for Establishment (CFE) expansion (Phase-III) of the Port for Cargo handling, as mentioned below, with an additional investment of Rs.9070 Cores.

S. No.	Type of Cargo	As per CFE amendment order dt.22.02.2018	As per CFO order dt.29.07.2018 & Amendment order dt.10.02.2020	Proposed expansion under Phase-III	Total after expansion
1.	Coal	51 Million TPA	51 Million TPA	88 Million TPA	139 Million TPA
2.	Iron Ore	8 Million TPA	8 Million TPA	-	8 Million TPA
3.	General Cargo (Fertilizers, granites, Edible Oil and Lube oils, others)	9 Million TPA	9 Million TPA	10.5 Million TPA	19.5 Million TPA
4	Liquid Cargo (POL, LNG, LPG, Chemical products)	4.3 Million TPA (dropped due to expiry of EC validity period)	--	51.7 Million TPA	51.7 Million TPA
5.	Container Cargo	3.3 Million TEUs/ Annum (dropped due to expiry of EC validity period)	2.0 Million TEUs/ Annum	1.1 Million TEUs/ Annum	3.1 MTEUs/ Annum

	Total	72.3 Million TPA + 3.3 Million TEUs/Annum	68.0 Million TPA Non-container cargo + 2.0 Million TEUs/A container cargo	150.2 Million TPA Non-container cargo + 1.1 Million TEUs/Annum Container cargo	218.2 Million TPA Non-container cargo + 3.1 Million TEUs/Annum Container cargo
6.	No. of Berths	17 Berths	12 Berths	16 Berths (including 3 Nos. of handling Liquid cargo) + 3 Single Buoy Moorings (SBM)	28 Berths (including 3 Nos. of handling Liquid cargo) + 3 Single Buoy Moorings (SBM)

The proposed berth requirement of 16 Nos. under Phase –III to handle the envisaged traffic is placed below:-

Type of Cargo	No. of Berths to be developed	Location	Berth * Numbers
Coal	7	North Dock	N9, N10, N11, N13, N14, N15 and N16
General Cargo	4	North West dock	NW4, NW5
		South Quay	S1
		North Dock	N12
Container Cargo	2	West Dock	W1 and W2
Liquid Cargo (LNG / LPG/ POL/ Chemicals)	3	--	L2, L3 & L4
Total excluding SBMs (Liquid Cargos)	16		
Three Single Buoy Moorings SBMs for Liquid Cargos, POL & other products		Geo-Coordinates 1) 14 ⁰ 14' 00" N 80 ⁰ 18' 12" E 2) 14 ⁰ 12' 54" N 80 ⁰ 19' 06" E 3) 14 ⁰ 17' 00" N 80 ⁰ 17' 48" E	

* The berth numbers shall be indicated on the berths.

- As per the application, the above activity is to be located in the existing premises of **Krishnapatnam (V), Muthukur (M), SPSR Nellore District** in an area of 1094Ha.
- The above site was inspected by Environmental Engineer (FAC) and Asst. Environmental Engineer, Regional Office: Nellore, A.P Pollution Control Board on 02.02.2021 and found that the site is in the Krishnapatnam Port.
- The Board, after careful scrutiny of the application, verification report of Regional Officer and recommendation of the CFE Committee, hereby issues **CONSENT FOR ESTABLISHMENT for EXPANSION** under Section 25 of Water (Prevention & Control of Pollution) Act 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. **This order is issued to the activity as mentioned at para (1) only.**

5. This Consent Order now issued is subject to the conditions mentioned in Annexure.
6. This order is issued from pollution control point of view only. Zoning and other regulations are not considered.
7. **This order is valid for a period of 7 years from the date of issue.**

Encl: Annexure.

Nambada
Venkata
Bhaskara Rao

Digitally signed by Nambada Venkata Bhaskara Rao
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JOINT CHIEF ENVIRONMENTAL ENGINEER (UH-1) (FAC)

To
M/s. Krishnapatnam Port Co. Ltd.,(expn)(Phase-III),
Krishnapatnam (V), Muthukur (M),
SPSR Nellore District.
environment.akpl@adani.com

Copy to: 1. The JCEE, Z.O: Vijayawada for information and necessary action.
2. The E.E., R.O: Nellore for information and necessary action.

ANNEXURE

1. The proponent shall obtain Consents for Operation (CFO) from APPCB, as required Under Sec.25/26 of the Water (P&C of P) Act, 1974 and under sec. 21/22 of the Air (P&C of P) Act, 1981, before commencement of the activity.
2. Compensation is to be paid for any environmental damage caused by it, as fixed by the Collector and District Magistrate as civil liability.
3. The rules and regulations notified by Ministry of Law and Justice, GOI, regarding the Public Liability Insurance Act, 1991 shall be followed.

Water:

4. The source of water is Muthukur Reservoir of 1000 KLD and 4 MLD of water from Nakkala kalava irrigation drain. The maximum permitted water consumption after proposed expansion is as following:

S. No.	Purpose	Qty as per CFO (Phase-1 & 2) (KLD)	Proposed in Expansion under Phase-III (KLD)	Total after expansion (KLD)
1.	Dust suppressions & other utilities	1600.0	1700	3300
2.	Gardening	300.0	200	500
3.	Domestic	600.0	600.0	1200.0
	Total:	2500.0 KLD	2500.0 KLD	5000.0 KLD

Separate meters with necessary pipe-line shall be provided for assessing the quantity of water used for each of the purposes viz., Dust suppression, Domestic purposes, Washing and servicing, development of greenery.

5. Waste water generation:

S. No.	Purpose	Qty as per CFO (Phase-1 & 2) (KLD)	Proposed in Expansion under Phase-III (KLD)	Total after expansion (KLD)
1.	Other Utilities	-	240.0	240.0
2.	Domestic	300.0	450.0	750.0
	Total	300.0 KLD	690.0 KLD	990.0 KLD

Treatment & Disposal (As per EC order):

Source of effluent	Treatment	Mode of final disposal
Domestic	Sewage Treatment Plant of capacity of 700 KLD consisting of Sewage collection Sump, Fluidized Bed Bio Reactor, Secondary clarifier, Clarifier Water Tank, Dual Media Filter, Treated water tank, Sludge drying beds etc.	Treated domestic effluents shall be utilized for Green belt development and dust suppression

Utilities	Effluent Treatment Plant of 300 KLD capacity consisting of Neutralization tank, Equalization tank, Oil Grease trap, flash mixing tank, clariflocculator, aeration tank, secondary clarifier, holding tank, pressure sand filter, activated carbon filter, sludge drying beds etc. for treating effluents	Treated effluent shall be reused for green belt and for dust suppression.
-----------	--	---

6. The effluent / sewage shall be treated to the on land for irrigation standards, as stipulated under Schedule VI of Environment (Protection) Rules, 1986, notified by Ministry of Environment and Forests, Government of India vide G.S.R.422 (E), dt.19.05.1993 and its amendments thereof. The treated waste water shall be used for development of greenery, dust suppression, re-used for various purposes within the premises.

Air:

The Air pollution Control equipment shall be installed along with the commissioning of the activity and shall comply with the following for controlling air pollution:

S. No.	Details of stack	Stack 01
a)	Attached to	D.G. Sets
b)	Capacity of D.G. set	5 x 2000 KVA, 1 x 1000 KVA, 2 x 750 KVA, 5 x 500 KVA, 3 x 320 KVA, 3 x 250 KVA, 3 x 160 KVA, 10 x 125 KVA, 10 x 82.5 KVA, 3 x 380 KVA
c)	Fuel	Diesel
d)	Stack height above the ground	Individual stacks of height 15 m each proposed
e)	Details of air pollution control equipment	Acoustic enclosures with silencers

7. The proponent shall ensure compliance of the National Ambient Air quality standards notified by MoE & F, GoI vide notification No. GSR 826(E), dated. 16.11.2009 during construction and regular operational phase of the project.
8. The proponent shall comply with the following for controlling fugitive emissions:
- Vehicle movement shall be minimized / eliminated by implementing mechanical operation.
 - All the vehicles involved in transportation of cargo shall be covered with tarpaulin.
 - Vehicles shall be managed to avoid traffic congestion and shall provide empty dusting vehicle washings / dry cleaning system to clean all out going cargo vehicles.
 - Based on traffic density/ vehicular movements anticipated from the port, parking facilities shall be provided.
9. All the transfer points, loading / unloading points and conveyer systems shall be housed completely with leak proof arrangements. Adequate dust suppression and containment measures shall be implemented for effective control of fugitive emissions.

10. Hazardous / Solid Waste details:

The Port Authority shall comply with the following w.r.t disposal of solid waste after expansion:

S.No.	Name of Waste	Quantity	Mode of disposal	
1	Solid waste (degradable)	1800 kg/day	To reuse as manure for green belt	
2	Solid waste (Non-degradable)	200 kg/day	To authorized recyclers	
3	STP sludge	120 kg/day	To be used as manure	
4	ETP sludge	50 kg/day	To TSDF for secured land fill	
5	Oil containing cargo residue washing water and sludge	250 KLPA	To authorized recyclers/ reprocessors/ TSDF	
6	Chemical containing cargo residue and sludge	100 KLPA		
7	Sludge and filters contaminated with oil	200 TPA		
8	Ballast water containing oil from ships	250 KLPA		
9	Used/ Spent Oil	350 KLPA		
10	Wastes / residues containing oil	100 KLPA		
11	Sludge from treatment of waste water arising out of cleaning/ disposal of barrels/ containers	100 TPA		
12	Discarded containers/ barrels/ liners contaminated with Haz. Waste/ chemicals	100 TPA		To authorized recyclers/ reprocessors / TSDF
13	Flue gas cleaning residue	10 TPA		
14	Chemical sludge from waste water treatment	100 TPA		
15	Oil and grease skimming residues	20 PA		

11. The following rules and regulations notified by the MOE&F, GOI shall be implemented.
- Regulation of Persistent Organic Pollutants Rules, 2018.
 - Hazardous waste and other wastes (Management and Transboundary Movement) Rules, 2016.
 - Plastic Waste Management Rules, 2016.
 - Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989
 - Fly Ash Notification, 2016.
 - Batteries (Management & Handling) Rules, 2010.
 - E-Waste (Management) Rules, 2016.
 - Construction and Demolition waste Management Rules, 2016.
 - Solid Waste Management Rules, 2016.
 - The Public Liability Insurance Act, 1991 and its amendments thereof.

Other Conditions:

12. The Port shall comply with the following conditions as committed during the CFE Committee meeting held on 23.02.2021:
- M/s. KPCL shall implement Mechanized MDSS systems for effective dust control. Water meters and energy meters shall be installed to record the quantity of water consumed and electricity consumed for MDSS systems.
 - M/s. KPCL shall conduct performance evaluation of MDSS systems.
 - M/s. KPCL shall explore the possibility of usage of Chemical suppressants such as Sodium / Potassium Aluminates, for effectively mitigating the dust emissions during coal / dusty cargo handling.
 - M/s. KPCL shall restrict the coal stack height to 10 m only. In future, APPCB will examine the increase in stack height of dusting cargo from 10 m to 12 m depending up on the justification submitted by the port.
 - M/s. KPCL shall install desalination plants to treat the sea water and use in the port area. This will minimize the fresh water consumption.
 - M/s. KPCL shall allow the effluents / leachate generated from dust suppression / coal handling etc., into sea under any circumstances. The garland drains, settling tanks shall be de-silted regularly for free flow.
 - Greenbelt of width 100 m shall be developed along the boundary of the port as committed in the public hearing (para no. 5 of EC order dt.11.01.2021) and as stipulated in the CFE order dt.08.05.2010. The greenbelt shall be developed in an area not less than 120 Ha along the Port boundary and around the coal storage areas with native species, as stipulated in EC order dt.11.01.2021. Saline water resistant saplings shall be planted as Bay-of-Bengal is located in the vicinity.
 - The liquid cargo / chemicals shall be stored in the port area complying with OISD norms. All precautions shall be taken to prevent any chemical accidents. The chemicals stored in the port premises and their capacities shall be informed to the EE, RO: Nellore from time to time.
 - As per the power point presentation given by the port officials, the values of PM₁₀ in the month of March, 2020 are ranging from 77.6 to 96.6 µg/m³ inside the port premises. These values are representing the pollution levels in the Ambient Air due to present handling capacity of cargo in the port. These values are higher than the AAQ standards stipulated by CPCB i.e., 60 µg/m³. Hence, the port shall immediately upgrade existing MDSS to suppress dust effectively so as to achieve the standards stipulated by the CPCB.
 - It is observed from the EE,RO: Nellore report that Tamminapatnam, Continuous Ambient Air Quality Monitoring Station (CAAQMS) is not working. It is to be repaired and made functional immediately.
 - The Coal stock yard shall be enclosed suitably to have three layers of green belt of varying height on all the sides.
 - Dusty cargos shall be handled through mechanized handling equipment for loading & unloading operations.

- Closed conveyor belt with water sprinkling arrangement shall be provided for conveying dusty cargos like coal& iron ore.
 - The ship un-loader for unloading and transfer of material shall be provided with in-situ water sprinkling system to avoid dust nuisance.
 - Mechanical stackers cum reclaimers for staking transfer and reclamation and conveyors for transfer of materials without manual handling.
 - Dry fogging system shall be provided at transfer points.
 - Automatic water sprinkling shall be provided at all dusty cargo stock yards. There shall be interlocking between the CAAQM station values for particulate matter and MDSS.
 - The facility shall maintain standby centrifugal pump with drive motor for uninterrupted dust suppression of the cargo.
 - The coal & iron ore shall be transported by rail from the stacking area as far as possible. The residual cargo if any shall be transported by road through covered trucks duly complying with the following measures:
 - i. Traffic congestion shall be avoided.
 - ii. Automated mechanical water sprinkling shall be provided on roads and at dusty cargo storage areas, for suppression of dust.
 - iii. All the vehicles involved in transportation of cargo during the break downs shall be covered with tarpaulin and also ensure to manage vehicles
 - iv. The truck movement shall be through a dedicated road meant for truck movement located and avoid movement of trucks closer to residential areas.
 - v. The trucks shall be fully covered with tarpaulin while plying with cargo on the roads.
 - vi. All cargo vehicles moving out from the port shall be passed through vehicle wheel wash area.
 - The port shall provide oil spill containment facilities around the SBM.
 - The port shall take necessary environmental protection measures for the dump yard of the grudged material.
13. **The industry shall comply with all the conditions stipulated in the EC order dt.11.01.2021 issued by MoEF & CC, Gol, New Delhi under Phase-III.**
14. Fire detection and fire fighting facilities with adequate water storage facility shall be provided in fire prone area in consultation with competent authorities.
15. Onsite & offsite Disaster Management plan shall be prepared to meet any eventuality in case of any accident. Mock drills shall be conducted atleast twice a year and modifications required if any shall be incorporated in Disaster Management Plan and shall submit to Board.
16. **The Port Authorities shall prepare a safety report and carry out an independent safety audit report of the respective industrial activities including chemical storages / isolated storages by an expert not associated with such industrial activity as required under Rule 10 of MSIHC Rules, 1989 and get it approved by the Factories Dept., and submit the compliance along with copy of the safety report, safety audit report and safety certificate at concerned Regional Office, APPCB.**

17. **The Port Authorities shall submit a copy of the NOC issued by the Andhra Pradesh State Disaster Response and Fire Service Dept., (APSDRFSD) at concerned Regional Office, APPCB.**
18. **The Port Authorities shall submit risk assessment report covering worst scenario clearly describing impact within the industry premises and outside the industry premises and emergency response system.**
19. The Port Authorities shall obtain prior permission from MoEF & CC, Gol and APPCB for any changes in the cargo type / capacity.
20. DO levels in the sea water at the dredging area shall be monitored at regular interval and the dredging time shall be suitably regulated to prevent depletion of DO levels in the sea water.
21. **The industry shall submit compliance to the conditions stipulated in the EC and CFE orders to the concerned Regional Officer of APPCB every six months and shall upload the same at APPCB website viz., https://pcb.ap.gov.in/UI/Submission_Combpliance_of_EC_CFE_CFO_Direction.aspx.**
22. Concealing the factual data or submission of false information/ fabricated data and failure to comply with any of the conditions mentioned in this order may result in withdrawal of this order and attract action under the provisions of relevant pollution control Acts.
23. Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves its right and power Under Sec. 27(2) of Water (Prevention and Control of Pollution) Act, 1974 and Under Sec.21(4) of Air (Prevention and Control of Pollution) Act, 1981 to revoke the order, to review any or all the conditions imposed herein and to make such modifications as deemed fit and stipulate any additional conditions.
24. Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules,1982, to such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of Water (Prevention and Control of Pollution)Act,1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.

**Nambada
Venkata
Bhaskara Rao**

Digitally signed by Nambada Venkata Bhaskara Rao
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JOINT CHIEF ENVIRONMENTAL ENGINEER (UH-1)(FAC)

To

**M/s. Krishnapatnam Port Co. Ltd.,
Krishnapatnam (V), Muthukur (M),
SPSR Nellore District.
environment.akpl@adani.com**

Director
Logistics
Lr.No.AKPL/2021, dt. 03.02.2021.

To
**The Collector & District Magistrate,
SPS Nellore Dist.,**

Respected Sir,

Sub Development of Krishnapatnam Port - Expansion of KP Port (Phase - III) at SPSR Nellore District, Andhra Pradesh by M/s Adani Krishnapatnam Port Ltd. - Environmental and CRZ Clearance - Reg

Ref File No. 10-18/2016 - IA.III proposal No. 1A/AP/MIS/566/2009 dt. 11.01.2021 from the Ministry of Environment, Forest and Climate Change (Impact Assessment Division), New Delhi

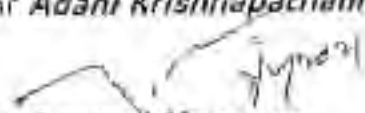
With reference to the subject cited, we bring to your kind notice that we have received Environmental and CRZ Clearance vide reference cited for expansion of Krishnapatnam Port (Phase - III) at SPSR Nellore Dist., Andhra Pradesh, from the Ministry of Environment, Forest and Climate Change (Impact Assessment Division), New Delhi.

This is submitted for favour of kind information, please.

End: Above reference

With kind regards,

Yours sincerely,
for **Adani Krishnapatnam Port Ltd.,**


**Dy. General Manager,
Corporate Affairs.**

03/02/2021
[Handwritten notes and stamps]

Adani Krishnapatnam Port Ltd
(Formerly Krishnapatnam Port Company Ltd)
PO Bag No 1
Muthukur Mandal
SPSR Nellore 524 344
Andhra Pradesh, India
CIN: U45203AP1956PLC023529

Tel: +91 861 237 7999
Fax: +91 861 237 7046
info@adani.com
www.adaniports.com

Registered Office: 1st Floor, 4B-5-17, Chirabandhara Village, Chirabandhara, 520 016, Krishna District, India

నెం 1101/2021 తే 01 02 2021 ది

To

- 1 ది పంచాయతి సెక్రటరీ, గ్రామ పంచాయతి కార్యాలయము, కృష్ణపట్నం
- 2 ది పంచాయతి సెక్రటరీ, గ్రామ పంచాయతి కార్యాలయము, పోర్తాపాలెం
- 3 ది పంచాయతి సెక్రటరీ, గ్రామ పంచాయతి కార్యాలయము, వారికేపల్లి
- 4 ది పంచాయతి సెక్రటరీ, గ్రామ పంచాయతి కార్యాలయము, పంతుపాళెం
- 5 ది పంచాయతి సెక్రటరీ, గ్రామ పంచాయతి కార్యాలయము, తిమ్మనపల్లెం

తయ్యా

విషయము : కృష్ణపట్నం పోర్టు, ఏజీ-III, శ్రీ పొట్టి శ్రీరాములు నెల్లూరు జిల్లా, ఆంధ్రప్రదేశ్ పర్యావరణ మరియు సెలెక్షన్ క్రియేటివ్ గురించి తెలియజేయుట.

సూచిక : నెం.10-18/2016 - I ప. 3, ప్రపోజల్ నెం 1ఎ/ఏ.పి/ఎం.ఎస్/556/2009 తే 11 01 2021 ది మినిస్ట్రీ ఆఫ్ పర్యావరణ మరియు ఇంప్రోవ్డ్ లిసిస్సింట్ డెవలప్ మెంట్.

ఇందుమూలముగా తెలియజేయడమేమీనగా, ప్ర సూచిక ద్వారా, కృష్ణపట్నం పోర్టు ఏజీ-III, శ్రీ పొట్టి శ్రీరాములు నెల్లూరు జిల్లా, ఆంధ్రప్రదేశ్ వారికే పర్యావరణ మరియు సెలెక్షన్ క్రియేటివ్ వచ్చినదని తెలియజేయడమైనది ఇందువంటి ప్ర సూచిక జతపరచడమైనది.

[Signature]
Panchayati Secretary
Gramapanchayati
Portapalem, Muthukur Mandal,
SPSR Nellore Dist.

[Signature]
Panchayat Secretary
GRAMAPANCHAYATI
Varikellapalli, Muthukur Mandal,
SPSR Nellore Dist.

[Signature]
Panchayati Secretary
Thaminrapotnam Gram Panchayati
Chilakur Mandal, SPSR Nellore Dist.

ఇట్లు
భవదీయములు
[Signature]
12/2/2021

[Signature]
Panchayat Secretary
KRISHNAPATNAM GP
Muthukur Mandal,
SPSR Nellore Dist.
Adani Krishnapatnam
(Formerly Krishnapatnam)
PO Bag No 1
Muthukur Mandal
SPSR Nellore 524 344
Andhra Pradesh, India
CIN: U45205AN1999PL0023578
www.adanigrup.com

[Signature]
Panchayat Secretary
Grampanchayat, Muthuku:
Muthukur Md., SPSR Nellore Dist.



Ref.No.KP/MOEF/113

Dated: 29th August, 2012

To
The Director (IA-III)
Ministry of Environment and Forests
(I.A. Division)
Paryavaran Bhavan
CGO Complex, Lodi Road
New Delhi - 110 003

Kind Attn: Shri Lalit Kapur

Sub: **Environmental and CRZ Clearance for the development of Krishnapatnam Port in Phase-II at Krishnapatnam, Sri Potti Sriramulu Nellore District, Andhra Pradesh by M/s. Krishnapatnam Port Company Limited - modification to Specific Condition 5 (vii) - Request - Reg.**

Ref: Your Letter F.No.11-62/2009-IA.III dated 13.11.2009

Dear Sir,

- (1) We invite your kind attention to Specific Condition No.5.(vii) of the CRZ & Environmental Clearance Order No.11-62/2009-IA.III dated 13.11.2009 of the MoEF above cited.
- (2) You may recall that during the public hearing held on the 20th February, 2009 at Krishnapatnam, Nellore District, Andhra Pradesh for Phase-II Development of Krishnapatnam Port, a request was made by one of the public (Jana Vignana Vedika) that a greenbelt of 100 m width may be provided **around the port** in lieu of the proposed 50 m width. KPCL clarified during the public hearing that as per the Phase-II development plan, a minimum of 50m wide Greenbelt would be developed all along port boundary and 20m along the stockyards. With these provisions the likely impact on the air quality was predicted using ISCST3 model and the results are within the standards stipulated by CPCB/MoEF. Our response on the Minutes of the Public Hearing was incorporated in the Final EIA report submitted to the MoEF vide KPCL's Letter dated 06.05.2009 (copy of relevant extract D-3 enclosed for ready reference as **Annexure-I**). In this context we submit that the MoEF in their CRZ & EC stated that "The greenbelt of 100 m width shall be developed **around the coal stack yard** as per the request in the public hearing", while the actual request made during the public hearing relates to "greenbelt of 100 m width **around the port**".

c/c



- (3). We further submit that the APCCB in its CFE for Phase-II development vide Order No.633/PCB/CFE/RO-NLR/HO/2010/390 dated 08.05.2010 (copy of relevant extract enclosed as **Annexure-II**) directed at Condition 24 that "Green Belt of width 100m shall be developed **along the boundary** of the industry as committed by the proponent". Accordingly a greenbelt of 100 m width is being developed along the boundary of the port and a 20 m wide Green belt around the iron ore and coal stack yards. The status of compliance was submitted to the Regional Office, MoEF, Bangalore in the first half-yearly compliance report dated 11.06.2010 (copy of relevant extract enclosed as **Annexure-III**). For ready reference, we are enclosing herewith (**Annexure-IV**) a pictorial presentation of the actual field Ambient Air Quality data from the monitoring stations along Port boundary for the period 2010, 2011 and 2012 (upto July) which confirms the findings of the model incorporated in the EIA Report and comply with the AAQ Standards.
- (4). During the recent visit of the Senior Officers of the MoEF, Southern Region, Bangalore to Krishnapatnam Port on 24.07.2012, we brought the above anomaly to their notice and they have advised that the MoEF may be addressed to modify the Specific Conditions 5 (vii) of the above cited EC to reflect the actual request made by the public during the hearing held on 20th February, 2009.

We accordingly request you to kindly issue an early order modifying the provision under Specific Condition 5 (vii) of the Environmental Clearance Order cited above as under:-

Existing	Requested
"The greenbelt of 100 m width shall be developed around the coal stack yard as per the request in the public hearing".	"The Greenbelt of 100m width shall be developed along the port boundary as per the request in the public hearing".

Thanking you,

Yours faithfully,
for **KRISHNAPATNAM PORT CO. LTD.,**


(S.B. PURI)
Director

Encl: As above

Copy to: The Director, MoEF, Southern Region, Bangalore.

Encl: As Above

copy to: CEO, KPCL, Mallore along with enclosures

F. No. 11-62/2009-IA.III
Government of India
(Ministry of Environment & Forests
IA.III Division)

Room No. 534,
Paryavaran Bhawan,
CGO Complex, Lodhi Road,
New Delhi-110003.

Dated: 2 March 2010

CORRIGENDUM

Subject: Environmental and CRZ clearance for Phase II Development of Krishnapatnam Port at Krishnapatnam, Sri Potti Sriramulu Nellore District, Andhra Pradesh by M/s. Krishnapatnam Port Company Ltd. Reg.

Sir,

This has reference to your letter no. KTM/MAEP/DI-11119 dated 19.01.2010 regarding change of the company. To this correct attention is invited to this Ministry's letter of order no. 41/17-2009. The condition No. 10(a) be deleted and in substitution (22)(a) be referred to (22)(b).

The all other terms and conditions clearance letter of order no. dated 11.10.09 remain unchanged.

Yours faithfully,


(Bharat Bhushan)
Director (IA)

Copies to:

1. The Principal Secretary, Director (Environment) Forests & Environment Department Government of Andhra Pradesh No. 14 2nd floor, Sachchidanaya, Gopalnagar - 582009.
2. The Chairman, CPCB, Parivesh Bhawan, CGO Complex, CGO Complex, East Arjun Nagar Delhi - 32.
3. The Chairman, Andhra Pradesh State Coastal Zone Management Authority & Additional Secretary Government of Andhra Pradesh, Environment and Forests Science and Technology Information Secretariat, Hyderabad - 500 022.
4. The Member Secretary, Andhra Pradesh Pollution Control Board Hyderabad.
5. The Chief Conservator of Forests, Ministry of Environment and Forests, Regional Office, Western Region, Kalyan Paryavaran Bhawan, Link Road No. 3, Kavi Shankar Nagar, Bhopal - 462016 (M.P.)
6. Office File.
7. Monitoring Cell.

(Bharat Bhushan)
Director (IA)

Ref. No. AKPL/EC/ENV/126/2024-25

Date: 09.01.2025

To

Ramakrishna, IFS,
CCF & Member Secretary,
AP State Biodiversity Board,
Nagarjuna Nagar, Nagarjuna University, NH-5,
Guntur District, Andhra Pradesh.

Dear Sir,

Sub:- Adani Krishnapatnam Port Limited (AKPL) – Complying with Phase III expansion of EC & CRZ clearance Condition No. VIII under Marine ecology stipulates – Submission of Marine Biodiversity Management Plan- Reg.

Ref:- EC & CRZ Clearance Order No.10-18/2016-IA-III dated 11.01.2021 accorded to AKPL by the Ministry of Environment, Forests & Climate Changes, New Delhi.

@@@

We submit that Adani Krishnapatnam Port Limited (AKPL) is an operational port located at Krishnapatnam (P), Muthukur (M), SPSR Nellore District.

The Ministry of Environment, Forests & Climate Changes, New Delhi has accorded Environmental & CRZ Clearance to AKPL vide reference cited above for the development of Port under Phase – III (Copy of the EC & CRZ Clearance is attached herewith for your kind reference).

As per the EC & CRZ Condition No. VIII under Marine ecology stipulates that:

"A detailed marine biodiversity management plan shall be prepared through the NIO or any other institute of repute on marine, brackish water and freshwater ecology and biodiversity and submitted to and implemented to the satisfaction of the State Biodiversity Board and the CRZ authority. The report shall be based on a study of the impact of the project activities on the intertidal biotopes, corals and coral communities,

Adani Krishnapatnam Port Ltd
PO Bag No 1, Muthukur Mandal,
SPSR Nellore District 524344
Andhra Pradesh, India
CIN: U45203AP1996PLC023529

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molluscs, sea grasses, sea weeds, sub-tidal habitats, fishes, other marine and aquatic micro, macro and mega flora and fauna including benthos, plankton, turtles, birds etc. as also the productivity. The data collection and impact assessment shall be as per standards survey methods and include underwater photography."

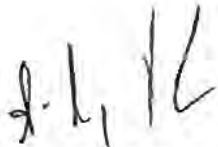
Complying with the above conditions, a study on Comprehensive Biodiversity Assessment, Impact Assessment and Management Plan was prepared through M/s. Suganthi Devadason Marine Research Institute (SDMRI). As per the MoEF & CC, EC & CRZ Clearance.

We, therefore submit herewith the study report to comply with the EC & CRZ Clearance stipulated condition,

Thanking You,

Yours Faithfully,

For M/s Adani Krishnapatnam Port Limited,




(Authorized Signatory)

Encl: a/a

Cc:

Environment Engineer,
A.P Pollution control Board,
Regional Office, SPSR Nellore.
Andhra Pradesh

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LA33551987IN Jm10r0000065982
RF MUTUKUR S.O :524344
Dumler Ho2.11/01/2020.11102
TUSANKRISHNA I. COFAMEMBER SECDE
PTN:522510, Madanasa Nagar S.O
From:ADAM KRISH.MUTUKURU
Wt:6750ms,REG=17 0
Sent at 76 To:18 To Def. Expend. (M/Cash)

adani

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Ref. No. AKPL/EC/ENV/126/2024-25

Date: 09.01.2025

To

Ramakrishna, IFS,
CCF & Member Secretary,
AP State Biodiversity Board,
Nagarjuna Nagar, Nagarjuna University, NH-5,
Guntur District, Andhra Pradesh.

Dear Sir,

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molluscs, sea grasses, sea weeds, sub-tidal habitats, fishes, other marine and aquatic micro, macro and mega flora and fauna including benthos, plankton, turtles, birds etc. as also the productivity. The data collection and impact assessment shall be as per standards survey methods and include underwater photography."

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We, therefore submit herewith the study report to comply with the EC & CRZ Clearance stipulated condition.

Thanking You,

Yours Faithfully,

For **M/s Adani Krishnapatnam Port Limited,**



(Authorized Signatory)

Encl: a/a

Cc:

Environment Engineer,
A.P Pollution control Board,
Regional Office, SPSR Nellore,
Andhra Pradesh.

Adani Krishnapatnam Port Ltd
PO Bag No 1, Muthukur Mandal,
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Registered Office: Adani Corporate House, Shantigram, Nr. Vaishno Devi Circle, S. G. Highway, Khodiyar, Ahmedabad - 382421, Gujarat, India



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* Indicates a required field.

* Consignment Number

CA838561982IN

Booked At	Booked On	Destination Pincode	Tariff	Article Type	Delivery Location	Delivery Confirmed On
Muthukur S.O	11/01/2025 11:02:11	522508	61.36	Registered Parcel	Nagarjuna Nagar S.O	15/01/2025 14:39:14

Event Details For : CA838561982IN

Current Status : Item Delivered(Addressee)

Date	Time	Office	Event
15/01/2025	14:39:14	Ram Tree Park B.O	Item Delivered(Addressee)
15/01/2025	09:52:18	Namburu S.O	Item Dispatched
15/01/2025	09:52:18	Namburu S.O	Dispatched to RO
15/01/2025	09:52:18	Namburu S.O	Item Bagged
15/01/2025	09:27:53	Namburu S.O	Item Received
14/01/2026	07:38:49	Guntur RS TMO	Item Dispatched
14/01/2025	06:45:03	Guntur RS TMO	Item Received
14/01/2025	06:33:30	Guntur PH	Item Dispatched
14/01/2025	02:41:25	Guntur PH	Item Bagged
14/01/2025	00:30:22	Guntur PH	Item Received
13/01/2025	14:49:05	Nagarjuna Nagar S.O	Item Dispatched
13/01/2025	14:48:01	Nagarjuna Nagar S.O	Item Bagged
13/01/2025	11:58:05	Nagarjuna Nagar S.O	Item Redirected to Namburu S.O Insufficient Address
13/01/2025	10:41:10	Nagarjuna Nagar S.O	Item Received
13/01/2025	06:08:04	Guntur RS TMO	Item Dispatched
13/01/2025	05:43:27	Guntur RS TMO	Item Received
13/01/2025	05:39:13	Guntur PH	Item Dispatched
13/01/2025	04:01:46	Guntur PH	Item Bagged
12/01/2025	22:46:57	Guntur PH	Item Received
12/01/2025	10:22:49	Guntur RS TMO	Item Dispatched
12/01/2026	09:00:25	Guntur RS TMO	Item Received
12/01/2025	03:36:47	Vijayawada RS TMO	Item Dispatched
12/01/2025	03:36:11	Vijayawada RS TMO	Item Received
11/01/2025	21:37:14	Nellore TMO	Item Dispatched
11/01/2025	21:33:18	Nellore TMO	Item Received

11/01/2025	21:20:28	Nellore PH	Item Dispatched
11/01/2025	21:03:34	Nellore PH	Item Bagged
11/01/2025	19:36:31	Nellore PH	Item Received
11/01/2025	13:54:53	Muthukur S.O	Item Bagged
11/01/2025	11:02:11	Muthukur S.O	Item Booked

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6483561996IN JNR:6763838561996
FR:RATHUR S.O. (579244)
Counter No. 1100/2015, 11/02
10TH CROSS ST. W. COASTAL ROAD
P.O. 520327, Autonagar S.O.
FROSTWADI ST. W. RAJHUMBU
Uttara, 40170
Tel: 02324436444 Fax: 02324436444

Ref. No. AKPL/EC/ENV/127/2024-25

Date: 09.01.2025

To

The Member Secretary,
Andhra Pradesh Coastal Zone Management Authority (APCZMA),
O/o Andhra Pradesh Pollution Control Board,
Paryavaran Bhavan, APPIIC Colony Road, Gurunanak Colony,
Autonagar, Vijayawada – 520007.

Dear Sir,

Sub:- Adani Krishnapatnam Port Limited (AKPL) – Complying with Phase III expansion of EC & CRZ clearance Condition No. VIII under Marine ecology stipulates – Submission of Marine Biodiversity Management Plan- Reg.

Ref:- EC & CRZ Clearance Order No.10-18/2016-IA-III dated 11.01.2021 accorded to AKPL by the Ministry of Environment, Forests & Climate Changes, New Delhi.

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We submit that Adani Krishnapatnam Port Limited (AKPL) is an operational port located at Krishnapatnam (P), Muthukur (M), SPSR Nellore District.

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Complying with the above conditions, a study on Comprehensive Biodiversity Assessment, Impact Assessment and Management Plan was prepared through M/s. Suganthi Devadason Marine Research Institute (SDMRI) as per the MoEF & CC, EC & CRZ Clearance.

We, therefore submit herewith the study report to comply with the EC & CRZ Clearance stipulated condition

Thanking You,

Yours Faithfully,

For **M/s Adani Krishnapatnam Port Limited,**



(Authorized Signatory)

Encl: a/a

Cc:

Environment Engineer,
A.P Pollution control Board,
Regional Office, SPSR Nellore,
Andhra Pradesh.



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* Indicates a required field

* Consignment Number

CA838561996IN



Booked At	Booked On	Destination Pincode	Tariff	Article Type	Delivery Location	Delivery Confirmed On
Muthukur S O	11/01/2025 11:02:11	520007	61.36	Registered Parcel	Autonagar S O	16/01/2025 16:36:03

Event Details For : CA838561996IN

Current Status : Item Delivered(Addressee)

Date	Time	Office	Event
16/01/2025	16:36:03	NDC VIJAYAWADA	Item Delivered(Addressee)
16/01/2025	10:47:47	NDC VIJAYAWADA (Beat Number:8)	Item Delivered [To Despatch clerk office of the member secretary ap o (Article Receipt Room)]
16/01/2025	08:15:17	NDC VIJAYAWADA	Out for Delivery
16/01/2025	06:42:48	NDC VIJAYAWADA	Item Received
12/01/2025	03:40:27	Vijayawada RS TMO	Item Dispatched
12/01/2025	03:39:42	Vijayawada RS TMO	Item Received
11/01/2025	21:34:59	Nellore TMO	Item Dispatched
11/01/2025	21:33:18	Nellore TMO	Item Received
11/01/2025	21:20:28	Nellore PH	Item Dispatched
11/01/2025	21:07:35	Nellore PH	Item Bagged
11/01/2025	19:36:31	Nellore PH	Item Received
11/01/2025	13:54:53	Muthukur S O	Item Bagged
11/01/2025	11:02:11	Muthukur S O	Item Booked

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ANNEXURE-2

EMP matrix during Construction Phase

S. No	Project Activity	Potential Risks and Impacts	Recommended Mitigation Measures	Frequency of Measurement/ Monitoring	Responsibility of Mitigation Measures	Mitigation Measures Implementation Period	Any other
Land Environment							
1	Excavation for civil structures such as operational buildings and storage areas	Disposal of excavated soil	Excavated soil will be used for back- filling the excavated pits after completion of concreting and the balance quantity will be used for filling low lying areas within Port Premises	After construction works complete	Main/ Contractor Sub-	During Excavation Period	Soil Physical Supervision
Air Environment							
2	Excavation and Civil Foundation Works	Dust emission and Air Pollution	Ambient Air Quality Monitoring near project site	Once in a month and random sampling will be done- 3 locations	AKPL/Main Contractor	Construction Period	Ambient Air Quality Monitoring conducted through NABL Accredited Laboratory
S. No	Project Activity	Potential Risks and Impacts	Recommended Mitigation Measures	Frequency of Measurement/ Monitoring	Responsibility of Mitigation Measures	Mitigation Measures Implementation Period	Any other

3	Vehicle Exhaust	Gaseous Emission and Air Pollution	BS IV/VI Emission Norms complied Vehicle to be deployed. Pollution Under Control (PUC) Certificate shall be furnished to Main Contractor for vehicles deployed for project related works	Once in a year- Parking areas	Main Contractor/Sub Contractor	Construction Period	PUC certificate shall be obtained from Agency authorized by State Transport Authority, Government of Andhra Pradesh
<u>Noise Environment</u>							
4	Vehicle Movement	Nuisance and Noise Pollution	Proper maintained vehicles will be deployed for project related activities	Once in a month- 3 locations- Junctions of Port road and public roads	Main Contractor	Construction Period	Noise Monitoring shall be monitored by Contractor using hand held noise meter
5	DG Set, Compressor, Construction Equipment Operation	Noise Pollution and Affects Hearing Loss to Workers	Acoustic Enclosure for DG Sets, Barriers for Compressor, Construction Equipment Isolation during works	Continuous 24 hrs monitoring - Once in a month- 3 locations. Instantaneous monitoring daily at the construction site.	Main/Sub Contractor	Construction Period	Contractor shall procure and train the person to monitor the noise level during construction period on daily basis.
<u>Groundwater Quality</u>							

S. No	Project Activity	Potential Risks and Impacts	Recommended Mitigation Measures	Frequency of Measurement/ Monitoring	Responsibility of Mitigation Measures	Mitigation Measures Implementation Period	Any other
6	Dredging/excavation for construction of berths	Salinity ingress in the groundwater	Envisaged berth construction with diaphragm wall structures shall prevent saturation of soil to incoming seawater	Half-Yearly - 4 locations	AKPL/Main Contractor	Construction Period	Groundwater quality in the surrounding land environment to be measured.
<u>Soil Environment</u>							
7	Dredging/excavation for construction of berths, Reclamation	Salinity ingress in the soil	Soil used for reclamation shall be tested. Envisaged berth construction with diaphragm wall structures shall prevent saturation of soil	Dredge/excavated soil shall be tested for contamination before using it for reclamation. HalfYearly- 2 locations adjacent to the reclaimed land	AKPL/Main Contractor	Construction Period	Soil quality in the surrounding land environment to be measured.
<u>Waste Management</u>							
8	Civil and Mechanical Works	Concrete Waste, Metal Scrap Waste and Waste Management	Concrete Waste shall be recycled or disposed to Landfill. Recyclable Scrap Waste shall be disposed to recyclers	Daily	Main Contractor	Construction Period	Log Book to be maintained for Waste Disposal
<u>Marine Environment</u>							

9	Drilling of piles for construction of berths	Increase of turbidity, TSS and heavy metal concentration	Sheet Piling around the drilling locations	Turbidity, Marine water quality and sediment quality - Weekly-4 locations	Main Contractor	Entire Construction Period	NABL accredited Lab shall be engaged for Monitoring
---	--	--	--	---	-----------------	----------------------------	---

S. No	Project Activity	Potential Risks and Impacts	Recommended Mitigation Measures	Frequency of Measurement/ Monitoring	Responsibility of Mitigation Measures	Mitigation Measures Implementation Period	Any other
							Sea water quality
10	Capital Dredging of 60 Million m ³	TSS and Turbidity of Marine Water Quality	Silt Curtain and Boom shall be deployed	Pre Dredging, Capital Dredging Period and Post dredging - 4 locations	AKPL	At the time of Dredging Schedule	NABL accredited Lab shall be engaged for Monitoring Sea water quality
11	Oil Spill from Construction Equipment during Construction activities in marine environment	Oil spill on the shore and seawater	Spill absorbing material shall be made available at project site. Oil spill collection tray shall be provided at potential oil leak source if any Oil storage area shall be provided away from the marine waters.	Daily	Main Contractor	Entire Construction Period	Log Book maintained for Oil Spill if any

Marine Ecological Environment

S. No	Project Activity	Potential Risks and Impacts	Recommended Mitigation Measures	Frequency of Measurement/ Monitoring	Responsibility of Mitigation Measures	Mitigation Measures Implementation Period	Any other
12	Capital Dredging of 60 Million m ³	Migration of marine species and loss of Benthic species	Silt Curtains/containment bunds for reclamation areas and Boom Dispersion Equipment		AKPL	Construction Period	NABL accredited Lab shall be engaged for Monitoring Sea water quality
13	Offshore disposal of dredge spoil	Increase in turbidity, change in bed contour and shoreline	Adequate interval shall be maintained for one cycle of disposal to other.	Pre dredging and Post dredging monitoring at the disposal site for 3 locations and 1 location at clear water for comparison.	AKPL	Construction Period	NABL accredited Lab shall be engaged

EMP matrix during Operation Phase

S. No	Project Activity	Potential Risks and Impacts	Recommended Mitigation Measures	Frequency of Measurement/ Monitoring	Responsibility of Mitigation Measures	Mitigation Measures Implementation Period	Any other
<u>Air Environment</u>							
1	Cargo Handling	Fugitive Dust Emissions – Affects Air Quality	Mechanization of Material Handling System from Berths to Coal Stock Piles. Dust Suppression and Dust Containment Systems shall be installed at critical locations such as Unloading and Coal Stock Piles area and Truck loading points	Twice a Week as per NAAQ Standards of CPCB- 7 locations	AKPL	Operation Period	NABL Accredited Lab shall be engaged
2	Vehicular Movement within Port Premises	Gaseous Emission Affect Air Quality	Emission norms prescribed by Transport Authority of State Government	Twice a Week as per NAAQ Standards of CPCB- 7 locations	AKPL	Operation Period	NABL Accredited Lab shall be engaged

Noise Environment							
3	Vehicular Movement KMPH within Port Premises	Ambient Nuisance	Speed Limit Noise Monthly- 7 shall be locations Vehicle prescribed	of 30 Governor on AKPL Operation shall	Period		be installed
Waste Management							

S. No	Project Activity	Potential Risks and Impacts	Recommended Mitigation Measures	Frequency of Measurement/ Monitoring	Responsibility of Mitigation Measures	Mitigation Measures Implementation Period	Any other
4	Operational buildings, Administrative Offices, Canteens	Solid Waste Generation	Biodegradable and Non-biodegradable wastes are collected, segregated and composted. Compost will be used as manure for Greenbelt	Once in a Year	AKPL	Maintenance	As per SWM Rules, 2016 all records shall be maintained.
5	Hazardous Waste - Used/Waste Oil	Hazardous Waste	Authorized Recyclers shall be identified for Reuse/Recycle	Once in a Year	AKPL	Maintenance	As per HWM Rules, 2016 all records shall be maintained.
Storm Water Management							

6	Storm Water Run-off from Coal Stock Piles	Affect Seawater Quality	Catch Pit, OilWater Separator and primary settling treatment facility shall be installed. Treated water will be reused for dust suppression system and greenbelt development	Once in Year	AKPL	Monsoon Period	Catch Pit, Oil Water Separator shall be cleaned before Monsoon. Discharge of wastewater in to storm water drain is not allowed
<u>Green Belt Development</u>							
S. No	Project Activity	Potential Risks and Impacts	Recommended Mitigation Measures	Frequency of Measurement/ Monitoring	Responsibility of Mitigation Measures	Mitigation Measures Implementation Period	Any other
7	Green Belt Development	Positive Impact to control Dust and Noise Pollution	Greenbelt of width 20 m is proposed around coal stockpiles and 50 m width along the port boundary		AKPL	Operation Period	Forests and Environment officers shall be consulted
<u>Mangrove Management</u>							
8	Monitoring/conservation of Existing mangroves	Positive impact on surrounding ecology	The mangroves shall be monitored for growth and survival	Bi-yearly- Random sampling by quadrat survey	AKPL	Operation Period	Forests and MSSRF shall be consulted.
<u>Marine Ecological Monitoring</u>							

9	Cargo Handling at Berth - Dust Deposition of Seawater Surface	Affects the primary productivity (Plantain and Algae)	Closed Conveyor and Hopper at Feeding point	Weekly- 3 locations within the port and 1 location in the approach channel	AKPL	Operation Period	NABL accredited Lab shall be engaged
<u>Marine Water Environment</u>							
10	Cargo Handling at Berth - Dust Deposition of Seawater Surface	Affect the water quality	Closed Conveyor and Hopper at Feeding point	Weekly- 3 locations within the port and 1 location in the approach channel	AKPL	Operation Period	NABL accredited Lab shall be engaged
11	Maintenance Dredging	Affect the water quality and sediment quality	Disposal of dredged material at the identified location in an even spread.	Monthly - at the disposal site for 4 locations and 1 location at clear water for comparison.	AKPL	Operation Period	NABL accredited Lab shall be engaged

Letter, No. AKPL/EC/EHS/032

Date: 03.07.2024

To

The Superintendent Engineer
Roads & Buildings Department,
Sujathamma Colony, Dargamitta
SPSR Nellore, 524002.

Dear Sir,

Sub:- AKPL – Complying with the MoEF & CC Conditions –Traffic Management and Traffic Decongestion Plan – Submitted – Validation & Certification – Requested - Reg.

Ref:- EC & CRZ Clearance Order No.10-08/2016-IA-III dated 11.01.2021 accorded to AKPL by the Ministry of Environment, Forests & Climate Changes, New Delhi.

We submit that Adani Krishnapatnam Port Limited (AKPL) is an operational port located at Krishnapatnam (P), Muthukur (M), SPSR Nellore District.

The Ministry of Environment, Forests & Climate Changes, New Delhi has accorded Environmental & CRZ Clearance to AKPL vide reference cited above for the development of Port under Phase – III. (Copy of the EC & CRZ Clearance is attached herewith for your kind reference).

As per the EC & CRZ Condition No. vii, under Air Quality Monitoring and Preservation stipulates that:

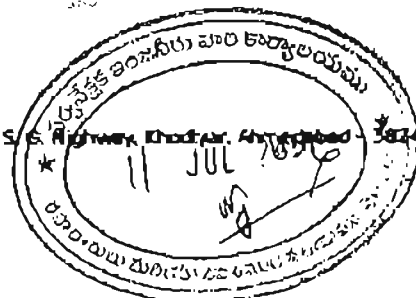
"A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all 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."

Complying with the above condition, a study on Traffic Management and Traffic Decongestion Plan was prepared through M/s. FP Project Management (formerly Frischmann Prabhu (India) Private Limited).

Adani Krishnapatnam Port Ltd
(Formerly Krishnapatnam Port Company Ltd)
PO Bag No 1, Muthukur Mandal,
SPSR Nellore District 524344
Andhra Pradesh, India
CIN: L45203AP1956PLD023529

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Fax: +91 861 237 7046
info@adani.com
www.adaniports.com

Regional Office: Adani Corporate House, Shendigram, Nr. Yaksho Devi Circle, S.P. Highway, Khodair, Anaparthi - 527421, Guntur, India



As per the MoEF & CC EC & CRZ Clearance, the Traffic Management and Traffic Decongestion Plan to be validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation.

We therefore, submitting herewith the study report for validation & certification and request your good self to validate & certify the study.

Thanking You,

Yours sincerely,

For Adani Krishnapatnam Port Limited.,



Dr. D. Jyothi
Vice President - Environment

Encl: a/a

Copy submitted to the Environmental Engineer, A.P. Pollution Control Board, Regional Office, SPSR Nellore for kind information.

Letter No. AKPL/EC/EHS/032

Date: 03.07.2024

To

The Nellore Urban Development Authority (NUDA),
Municipal Corporation Office,
SPSR Nellore, 524002.

Dear Sir,

Sub:- AKPL - Complying with the MoEF & CC Conditions - Traffic Management and Traffic Decongestion Plan - Submitted - Validation & Certification - Requested - Reg.

Ref:- EC & CRZ Clearance Order No.10-08/2016-IA-III dated 11.01.2021 accorded to AKPL by the Ministry of Environment, Forests & Climate Changes, New Delhi.

We submit that Adani Krishnapatnam Port Limited (AKPL) is an operational port located at Krishnapatnam (P), Muthukur (M), SPSR Nellore District.

The Ministry of Environment, Forests & Climate Changes, New Delhi has accorded Environmental & CRZ Clearance to AKPL vide reference cited above for the development of Port under Phase - III. (Copy of the EC & CRZ Clearance is attached herewith for your kind reference).

As per the EC & CRZ Condition No. vii, under Air Quality Monitoring and Preservation stipulates that:

"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."

Complying with the above condition, a study on Traffic Management and Traffic Decongestion Plan was prepared through M/s. FP Project Management (formerly Frischemann Prabhu (India) Private Limited).

Adani Krishnapatnam Port Ltd
(Formerly Krishnapatnam Port Company Ltd)
PO Box No. 1, Muthukur Mandal,
SPSR Nellore District 524004
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Page 1

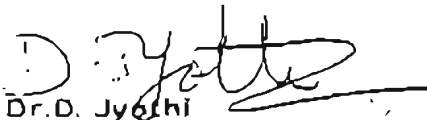
As per the MoEF & CC EC & CRZ Clearance, the Traffic Management and Traffic Decongestion Plan to be validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation.

We therefore, submitting herewith the study report for validation & certification and request your good self to validate & certify the study.

Thanking You,

Yours sincerely,

For Adani Krishnapatnam Port Limited.,



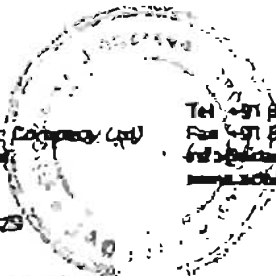
Dr. D. Jyothi
Vice President - Environment

Encl: a/a

Copy submitted to the Environmental Engineer, A.P. Pollution Control Board, Regional Office, SPSR Nellore for kind information.

Adani Krishnapatnam Port Ltd.
(Formerly Krishnapatnam Port Company Ltd)
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Quality, Environment, Health & Safety and Energy Policy

- APSEZ is committed to Quality, Energy, Occupational Health & Safety and Environment in port business. We consider IMS responsibilities are integral part of our business. To meet this commitment, APSEZ will abide by the following principles:
 - Satisfy our customers by maintaining a standard of service that consistently meets the agreed requirements
 - Focus on occupational health & safety of employees, pollution prevention, preservation & protection of environment at all times and in all circumstances
 - Identify and analyze the HSE risks arising from our activities to reduce them to the lowest possible levels
 - Eliminate or reduce the potential and severity of injuries, occupational diseases and impact on environment & community arising out of our operations
 - Fulfill applicable legislations, regulations and other requirements on IMS and take additional measures considered necessary
 - Committed to ensure the availability of information and necessary resources to achieve objectives and energy targets
 - Shall Strive to achieve the IMS goals and performance objectives, using effective Integrated Management System; and reviewed to improve performance
 - Ensure consultation and participation of workers and their representatives
 - Develop, conduct and promote education and training to improve IMS performance
 - Continually improve IMS management system by monitoring, evaluating and reviewing through the definition of operational standards, assessments and audits
 - Communicate our policies and standards to employees, suppliers, business partners and where necessary work with them to raise their standards
 - Support design activities that consider energy performance improvement
 - Reduce consumption of energy
 - Use of renewable energy
 - Procure energy efficient equipment's, products and services
 - Design for energy performance improvement
 - Provide necessary information and resources to achieve objectives and targets to all employees comply with applicable legal requirements and other requirements to which organization subscribes relates related to its energy use consumption and efficiency
 - Policy will be communicate at all level to enhanced Energy performance and involve our employees and partners for continual improvement in efficiency usage of all variable effecting energy consumption. Commitment to continual improvement in energy performance.


Subrat Tripathy
Chief Executive Officer (CEO) – Ports

Date: 28/02/2024

Rev: 05

Annexure 23

6.2.1 Compliance on the conditions stipulated in APCZMA – NOC vide letter no.202/CRZ/IND/2019-30 dated 21.05.2020

Part A- Specific Conditions		
S. No	Condition	Compliance
i.	The project proponent shall comply with all the conditions stipulated in the Environment & CRZ clearances, CFEs, CFOs issued to M/s. KPCL Phase-I and Phase-II projects in this Phase-III project also	Being complied.
ii.	The proposed constructions shall conform to the norms prescribed in CRZ notification issued by the Ministry of Environment and Forests, Government of India as per S. No. 19€, dated 06.01.2011.	Being complied.
iii.	No activity on ground shall be undertaken without obtaining Environmental clearance from Ministry of Environment and Forests, Government of India as per S. No. 19(E), dated 06.01.2011.	Being complied.
iv.	Continuous monitoring of circulation of seawater shall be carried out every six months by engaging reputed agencies like NIOT. The port shall undertake the study of multi sensor, multi date data to study the sedimentation studies in the inner harbour channel in addition to the in-house studies undertaken as part of regular monitoring of sedimentation in the harbour channel. The monthly reports shall be submitted to APPCB.	<p>Being complied.</p> <ul style="list-style-type: none"> • AKPL appointed NIOT for shore line stability study and same report as submitted on 16.04.2025 to APPCB, RO Nellore. • Letter vide no. AKPL/EC/ENV/007/2025-26 dated 09.04.2025. <p>Please find attached Annexure 7 AKPL appointed a NABL Accredited Laboratory to conduct Environmental Monitoring i.e., Terrestrial & Marine parameters.</p> <ul style="list-style-type: none"> • The reports are being submitted to APPCB on a

S. No	Condition	Compliance
		<p>monthly basis and MoEF&CC on half-yearly basis.</p> <ul style="list-style-type: none"> • NCSCM is Monitoring the Land, Air quality, Noise, Water, Marine, Marine sediment parameters and mangroves, ones in four years. • NCSCM report submitted in APPCB RO Nellore with vide letter no. AKPL/EC/APPCB/1252024-25 dated 09.01.2025 <p>Copy Attached as Annexure 15</p>
v.	<p>Study on marine biodiversity by engaging a reputed organization/ university having a proven expertise in the relevant field shall be taken up. Similar monitoring mechanism shall be developed for monitoring terrestrial part to determine the impacts.</p>	<p>Being Complied</p>
vi.	<p>The Port authorities shall continue to nourish the beaches located on the north side of the North breakwaters within the port limits, which are vulnerable to sea erosion during the monsoon season and also during cyclone.</p>	<p>Being complied</p>
vii.	<p>The Port shall also undertake the scientific studies by engaging reputed agencies like National Institute of Ocean Technology (NIOT) and Indian Institute of Technology, Chennai to study the feasibility of constructing submerged breakwaters to protect the beach road from seasonal erosion and also during cyclones.</p>	<p>Being Complied</p> <ul style="list-style-type: none"> • AKPL appointed NIOT for shore line stability study and same report as submitted on 16.04.2025 to APPCB, RO Nellore. • Letter vide no. AKPL/EC/ENV/007/2025-26 dated 09.04.2025. <p>Please find attached Annexure 7</p>

S. No	Condition	Compliance
viii.	<p>The applicant shall ensure that continuous monitoring systems of all likely affected parameters including air/fish/flora/fauna/water quality/waste water discharges/solid waste disposal/construction material disposal etc., are installed and reports shared with the National Institute of Oceanography (NIO) on continuous basis and a monthly report submitted to the APPCB by the NIO, all through construction period and at least for one year after commencement of operations.</p>	<p>Being complied.</p> <ul style="list-style-type: none"> • AKPL submitted a letter to APCZMA vide letter No. AKPL/APCZMA/ 2022-23/069 dated 09.09.2022. • AKPL appointed an NABL Accredited Laboratory to conduct Environmental Monitoring i.e., Terrestrial & Marine parameters. • The reports are being submitted to APPCB monthly and MoEF&CC on half-yearly basis.
ix.	<p>A team of APPCB scientists and environmental engineers shall be kept continuously informed and apprised of the project by the applicant, so that environmental mitigation measures are adopted on a continuous basis.</p>	<p>Senior Officials of APPCB are visiting AKPL on 6 Monthly basis to verify the compliance status under Randomized Inspection of Industries.</p>
x.	<p>The project proponent while executing this project shall not disturb any of the ecologically sensitive areas like mangroves, sand heaps sand dunes etc.</p>	<p>Being complied.</p>
xi.	<p>No construction shall be taken in the No Development Zone. However, if any permitted activity is to be taken up, the proponent may apply to the competent authority separately. Permanent structures shall be avoided in this zone.</p>	<p>Being complied.</p>
xii.	<p>Priority to be given to the maintenance of storm water drains from the surrounding area to prevent possible flooding of the surrounding areas.</p>	<p>Complied.</p> <p>AKPL is maintaining the storm water drains periodically and especially before monsoon season by removing the sludge accumulated to prevent possible flooding of the surrounding areas.</p>

S. No	Condition	Compliance
xiii.	Mechanization of Port operations shall be taken up to improve the air quality in the bowl area. SPM and RSPM levels to be maintained within the standards stipulated by the APPCB/CPCB.	<p>Being complied.</p> <ul style="list-style-type: none"> • Majority of Port operations are carried out through mechanized cargo handling equipment so as to avoid cargo spillage and dust emissions during the cargo handling activities • Provided Mechanical Dust Depression system at various critical points. • Implementing appropriate measures, able to mitigate all the dust being generated during the operations
xiv.	Raising and maintenance of greenbelt within and outside the port area to be taken up on priority and necessary assistance shall be extended to the local agencies involved in the implementation of afforestation program.	Being complied.
xv.	The project proponent shall submit the half yearly compliance reports of CRZ clearance duly audited by the accredited consultants on the degree of compliance by the project proponent during and after construction of the project.	<p>Complied.</p> <p>Submitting the half yearly NABL Accredited 3rd Party Compliance Reports for the period from October'24 to March'25 along with Terrestrial & Marine Monitoring reports to MoEF & CC and APPCB on 20.05.2024.</p> <p>Self-certified Half yearly compliance report for the period of Apr'24 to Sep'24 along with monitoring reports submitted MoEF & CC and APPCB on 30.11.2024</p> <p>Copies of the acknowledgments are attached as Annexure-9</p>
xvi.	Dredged material shall be utilized for nourishment of beaches.	Being complied.
xvii.	Full cooperation shall be extended to all inspecting authorities/	Being complied.

S. No	Condition	Compliance
	organizations such as APPCB, MoEF&CC, CPCB and local Environment Protection Organizations.	
xviii.	A team of APPCB scientists and environmental engineers shall be kept continuously informed and apprised of the project by the applicant, so that environmental mitigation measures are adopted on a continuous basis.	Senior Officials of APPCB are being visiting AKPL on 6 Monthly basis to verify the compliance status under Randomized Inspection of Industries. Random inspection reports are available in AP industries single desk portal.
xix.	The project activity shall be carried out strictly as per the provisions of CRZ Notification, 2011, and shall not affect the coastal ecology of the area including flora and fauna.	Being complied.
xx.	The project proponent shall ensure that there is no destruction of mangroves during the construction as well as the operation phase of the project.	Being complied.
xxi.	There shall be no dressing or alteration of the sand dunes and natural features, including landscape changes for beautification, recreation and other such purpose.	Being complied.
xxii.	All conditions/ recommendations stipulated by other statutory authorities shall strictly be complied with, as may be applicable.	Noted complied the conditions.
xxiii.	The project proponent shall obtain all necessary clearances/ permissions from the concerned authorities as applicable.	Being complied.
xxiv.	'Consent for Establishment' and CFO as may be applicable, shall be obtained from State Pollution Control Board under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	Complied Obtained CTE for Phase-III expansion vide Order no. 633/ APPCB/CFE/RO-NLR/HO/2010 dated 25.02.2021. Copy of the CTE Order is attached as Annexure-16.

S. No	Condition	Compliance
xxv.	All waste (liquid and solid) arising from the proposed development will be disposed of as per the norms prescribed by State Pollution Control Board. There shall not be any disposal of untreated effluent into the sea/coastal water bodies.	Being complied.
xxvi.	No permanent labour camp, machinery and material storage shall be allowed in CRZ area.	Being complied.
xxvii.	There shall no groundwater withdrawal within CRZ without prior approval of the State Groundwater Authority.	Complied.
xxviii.	Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	Being complied.
Part B - General Conditions		
i.	A copy of the clearance letter shall also be displayed on the website of the AP Pollution Control Board. The clearance letter shall also be displayed at the AP Pollution Control Board Regional Office, District Industries Centre and District Collector office/ Mandal Revenue Office for 30 days.	Complied. A copy of the Environmental clearance was submitted to <ul style="list-style-type: none"> • The Environmental Engineer, APPCB Regional office vide letter dated 12.01.2021, • The District Collector vide our letter dated 03.02.2021 and local panchayats vide letter dated 01.02.2021. Copy attached as Annexure-17.
ii.	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year wise expenditure shall be reported to the Andhra Pradesh Coastal Zone Management Authority	Being Complied.

S. No	Condition	Compliance
	(APCZMA) and AP Pollution control Board Regional office.	
iii.	Concealing factual data by the project proponent, any officer behalf of the project proponent and consultants hired by the project proponent or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted the condition.
iv.	The above stipulations would be enforced among others under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability (insurance) Act, 1991, the EIA Notification, 2006 and the CRZ Notification, 2011.	Noted the condition.
v.	Full co-operation shall be extended to the officials from the APCZMA, APPCB and Regional office of MoEF&CC, during monitoring of implementation of environmental safeguards stipulated. It shall be ensured that documents/data sought pertinent is made available to the monitoring team. A complete set of all the documents submitted to APCZMA shall be forwarded to the AP Pollution Control Board Regional office.	Noted the condition.
vi.	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the APCZMA.	Noted the condition.
vii.	The APCZMA reserves the right to add additional safeguard measures	Noted the condition.

S. No	Condition	Compliance
	subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	
viii.	All other statutory clearances shall be obtained, as applicable by project proponents from the respective competent authorities.	Noted the condition.
ix.	The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded CRZ clearance and copies of clearance letters are available with the AP Pollution Control Board and may also be seen on the website of APCZMA. The advertisement should be made within seven days from the date of receipt of the clearance letter and a copy of the same should be forwarded to the AP Pollution Control Board Regional office.	Complied. Advertisement was published in District Newspapers namely "Vartha" & "The New Indian Express" dated 21.01.2021. Copy attached as Annexure -18
x.	This clearance is subject to any order passed by any Hon'ble Courts, as may be applicable to this project.	Noted the condition.
xi.	A copy of the clearance letter shall be sent by the proponent to concern panchayat, Zilla Parisad/Municipal corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Complied. A copy of the Environmental clearance was submitted to <ul style="list-style-type: none"> • The Environmental Engineer, APPCB Regional office vide letter dated 12.01.2021, • The District Collector vide our letter dated 03.02.2021 and local panchayats vide letter dated 01.02.2021. • Copy attached as Annexure-17.

S. No	Condition	Compliance
xii.	The proponent shall upload the status of compliance of the stipulated conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the AP Pollution Control Board Regional office and, the concerned District Collector and the APPCB.	<p>Complied.</p> <p>Submitting the half yearly NABL Accredited 3rd Party Compliance Reports for the period from October'24 to March'25 along with Terrestrial & Marine Monitoring reports to MoEFCC and APPCB on 20.05.2024.</p> <p>Self-certified Half yearly compliance report for the period of Apr'24 to Sep'24 along with monitoring reports submitted MoEF & CC and APPCB on 30.11.2024.</p> <p>Copies of the acknowledgments are attached as Annexure-9</p>
xiii.	The environmental statement for each financial year ending 31st March in Form- V as is mandated to be submitted by the project proponent to the Andhra Pradesh Pollution Control Board as prescribed under the Environmental (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of clearance conditions and shall also be sent to the AP Pollution Control Board regional office, APCZMA and APPCB by email.	<p>Complied</p> <p>Form – V Environmental Statement Submitted on 28.09.2024 for the period 2023-2024.</p> <p>Copy Attached as Annexure-14.</p>

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Ref: AKPL/EHS/APPCB/026/2025-26

Date: 06/05/2025

To

The Environmental Engineer,
A.P. Pollution Control Board
Regional Office
SPSR Nellore.

Dear Sir,

Sub:- AKPL - Submission of Monthly CFO Compliance, Environmental
Marine & Terrestrial Monitoring Reports and Water
Consumption details for the Month of April'25 - Reg.

Ref:- CFO & HWA order no APPCB/AJA/NLR/11344/CFO/HO/2019
dated 11.11.2022 valid up to 31.08.2027

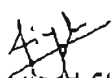
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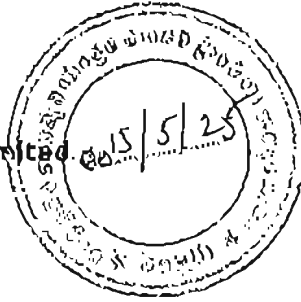
With reference to the above, we are herewith submitting the monthly CTO
compliance reports and CAAQM, Marine & Terrestrial monitoring results along
with Water Consumption details for the month of April -2025.

Thanking you.

Yours sincerely,

For Adani Krishnapatnam Port Limited


(Authorized Signatory)



Encl. a/a

Adani Krishnapatnam Port Ltd
PO Bag No 1, Muthukur Mandal
SPSR Nellore District 524344
Andhra Pradesh, India
CIN: U45203AN996PLC023529

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adani

Ports and
Logistics

Ref: AKPL/EHS/APPCB/027/2025-26

Date: 06/05/2025

To

Sr. Environmental Engineer, CESS
Andhra Pradesh Pollution Control Board,
Paryavaran Bhavan, APIIC Colony Road, Gurunanak Colony,
Autonagar, Vijayawada - 520007

Dear Sir,

Sub:- AKPL - Submission of Water Consumption details for the
Month April'25 - Reg.


Ref:- CFO & HWA order no APPCB/VJA/NLR/11344/CFO/HO/2019 dt.
11.11.2022 valid up to 31.08.2027

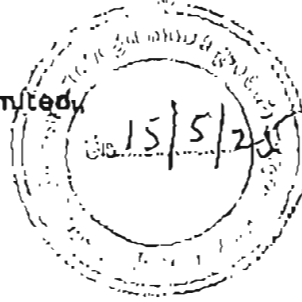
Please find enclosed herewith the water consumption details for the month of
April - 2025, prepared under the Water (Prevention and Control of Pollution) Cess
Act, 1977.

Thanking you,

Yours sincerely,

For Adani Krishnapatnam Port Limited,


(Authorized Signatory)



Encl. a/a

Copy submitted to the Environmental Engineer, A.P. Pollution Control Board,
Regional Office, SPSR Nellore for kind information.

Adani Krishnapatnam Port Ltd
PO Bag No 1, Muchukut Mandali,
SPSR Nellore District 524344
Andhra Pradesh, India
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Adani Krishnapatnam Port Limited
Compliance Report for April 2025 on conditions stipulated in the Consent to
Operation (CTO) Order of APPCB Dt. 11.11.2022

S No	CFO conditions	Status
Schedule - A		
1	Any up-set condition in any industrial plant / activity of the industry, which result in, increased effluent / emission discharge and/ or violation of standards stipulated in this order shall be informed to this Board, under intimation to the Collector and District Magistrate and take immediate action to bring down the discharge / emission below the limits.	This condition is noted.
2	The port should carryout analysis of wastewater discharges or emissions through chimneys for the parameters mentioned in this order on quarterly basis and submit to the Board.	Being Followed. The STP inlet & outlet water quality is being analyzed through NABL Accredited 3rd party agency monthly and the reports of same attached, values are within the Standard limits.
3	All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991 should be followed as applicable.	This condition is noted.
4	Notwithstanding anything contained in this consent order, the Board hereby reserves the right and powers to review / revoke any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.	This condition is noted.
5	The industry shall ensure that there shall not be any change in the process technology, source & composition of raw materials and scope of working without prior approval from the Board.	This condition is noted.
6	The applicant shall submit Environment statement in Form V before 30th September every year as per Rule No.14 of E (P) Rules, 1986 & amendments thereof.	Complied Environmental Statement in Form – V is being submitted annually. Latest Form-V Environment Statement for the FY 2023-2024 is submitted on 28.09.2024.
7	The applicant should make applications through Online for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts and detailed	Noted, will apply for Auto renewal through online consent management system before 120 days. AKPL obtained CFO & HWA from APPCB vide order No APPCB/VJA/ NLR/ 11344/CFO/HO/2019 dated 11.11.2022 valid up to 31 st August 2027.

	compliance of CFO conditions for obtaining Consent & HW Authorization of the Board.	
8	The port should immediately submit the revised application for consent to this Board in the event of any change in the raw material used, processes employed, quantity of trade effluents & quantity of emissions. Any change in the management shall be informed to the Board. The person authorized should not let out the premises / lend / sell / transfer their industrial premises without obtaining prior permission of the State Pollution Control Board.	This condition is noted.
9	Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules 1982, to Appellate authority constituted under Section 28 of the Water(Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air(Prevention and Control of Pollution) Act, 1981.	This condition is noted.
10	The conditions stipulated are without prejudice to the rights and contentions of this Board in any Hon'ble court of law.	This condition is noted
11	The port shall be liable to pay Environmental Compensation / Other Environmental Taxes, if any environmental damage caused to the surroundings, as fixed by the Collector & District Magistrate or any other competent authority as per the Rules in vogue.	This condition is noted.
12	The port may explore the possibility of tapping the solar energy for their energy requirements.	This condition is noted.
13	The port should educate the workers and nearby public of possible accidents and remedial measures.	This condition is noted.

S. No	Conditions	Compliance																											
	Schedule - B																												
1.	The port shall complete mechanizing of Berth No.6 by 31st March 2023.	Complied. Mechanization of berth no 6 is completed and in operation.																											
2.	The port shall complete the mechanization of Berth No. 5 within 24 months from the date when the coal handled at Berth No. 5 is adequate to handle through mechanization system. Till the mechanization is completed, the port shall do sprinkling along with MDSS to control dust pollution due to handling of coal.	Being Complied. Mechanization of berth No.5 work is under progress. Mobile atomizers and water tankers are being deployed while handling coal at berth no 5. Ensuring progress increase of the deployment of water sprinklers and other required dust containment / suppression measures to mitigate the dust emissions on vehicular movement during cargo evacuation on par with the cargo handling capacity.																											
3.	The port shall maintain the existing greenbelt of 100m width along the periphery. Further, development of 100m green belt at other expansion areas shall be taken up at the time of expansion of the port facility and shall be completed within 3 years.	Being Complied. AKPL has planted 1977 saplings in April 2025. 100 meters width of greenbelt developed around the port periphery.																											
4.	The port shall develop the 20m width greenbelt along the existing coal stock yards as per EC & CFO conditions within a time period of 2 years	Complied. 20 meters width of greenbelt developed around the coal stack yard zones.																											
5.	The port shall maintain storm water drains and improvement of the storm water drains in new areas shall be taken up along with the expansion of the port.	Being followed. Storm water drains are being maintained periodically and during monsoon season.																											
6.	The source of water is Muthukur Reservoir 1000 KLD and 4 MLD of water from Nakkala kalava irrigation drain. The maximum permitted water consumption after proposed expansion is as following: <table border="1"> <thead> <tr> <th>S. No.</th> <th>Purpose</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Dust suppressions & Miscellaneous (Fire protection services)</td> <td>1950.0 KLD</td> </tr> <tr> <td>2.</td> <td>Gardening</td> <td>400.0 KLD</td> </tr> <tr> <td>3.</td> <td>Domestic</td> <td>650.0 KLD</td> </tr> </tbody> </table>	S. No.	Purpose	Quantity	1.	Dust suppressions & Miscellaneous (Fire protection services)	1950.0 KLD	2.	Gardening	400.0 KLD	3.	Domestic	650.0 KLD	The average water consumption for the April 2025 was KLD i.e., <table border="1"> <thead> <tr> <th>S. No.</th> <th>Purpose</th> <th>Quantity KLD</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Dust suppressions & Miscellaneous (Fire protection services)</td> <td>1915</td> </tr> <tr> <td>2.</td> <td>Gardening</td> <td>324</td> </tr> <tr> <td>3.</td> <td>Domestic</td> <td>632</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total:</td> <td>2871</td> </tr> </tbody> </table>	S. No.	Purpose	Quantity KLD	1.	Dust suppressions & Miscellaneous (Fire protection services)	1915	2.	Gardening	324	3.	Domestic	632	Total:		2871
S. No.	Purpose	Quantity																											
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	Total: 3000.0 KLD															
7.	<p>The port shall comply the following effluent discharge standards based on the disposal points permitted:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Outlet</th> <th style="width: 60%;">Parameter No.</th> <th style="width: 30%;">Limiting Standards</th> </tr> </thead> <tbody> <tr> <td rowspan="5" style="text-align: center; vertical-align: middle;">1</td> <td>pH</td> <td style="text-align: center;">6.50 – 9.00</td> </tr> <tr> <td>Total Suspended Solids (TSS at 103 – 105°C)</td> <td style="text-align: center;"><100.00 mg/l</td> </tr> <tr> <td>Oil and Grease</td> <td style="text-align: center;">10.00 mg/l</td> </tr> <tr> <td>Biochemical Oxygen Demand (BOD 3 days at 27°C)</td> <td style="text-align: center;">30.00 mg/l</td> </tr> <tr> <td>Fecal Coliform (FC) (Most Probable Number per 100 milliliter, MPN/100ml)</td> <td style="text-align: center;"><1000 MPN/100 ml</td> </tr> </tbody> </table>	Outlet	Parameter No.	Limiting Standards	1	pH	6.50 – 9.00	Total Suspended Solids (TSS at 103 – 105°C)	<100.00 mg/l	Oil and Grease	10.00 mg/l	Biochemical Oxygen Demand (BOD 3 days at 27°C)	30.00 mg/l	Fecal Coliform (FC) (Most Probable Number per 100 milliliter, MPN/100ml)	<1000 MPN/100 ml	<p>AKPL has been operating</p> <ul style="list-style-type: none"> - 500 KLD STP (1 X 300 KLD & 1 X 200 KLD) at CVR Amenities Complex - 40 KLD STP Admin. Building <ul style="list-style-type: none"> ➤ 4143 KL of STP Treated water in the month of APR'25 has been utilized for greenbelt development. ➤ The STP inlet & outlet water quality is being analyzed through NABL Accredited 3rd party agency monthly and the values are within the limited standards.
Outlet	Parameter No.	Limiting Standards														
1	pH	6.50 – 9.00														
	Total Suspended Solids (TSS at 103 – 105°C)	<100.00 mg/l														
	Oil and Grease	10.00 mg/l														
	Biochemical Oxygen Demand (BOD 3 days at 27°C)	30.00 mg/l														
	Fecal Coliform (FC) (Most Probable Number per 100 milliliter, MPN/100ml)	<1000 MPN/100 ml														
8.	<p>The port shall comply with emission limits for DG sets of capacity up to 800 KW as per the Notification G.S.R.520 (E), dated 01.07.2003 and ~S.R.448(E), dated 12.07.2004 under the Environment (Protection) Act Rules. In case of DG sets of capacity more than 800 KW shall comply with emission limits as per the Notification G.S.R.489 (E), dated 09.07.2002 at serial no.96, under the Environment (Protection) Act, 1986</p>	<p>AKPL appointed an NABL Accredited Laboratory for Environment, Terrestrial & Marine Monitoring.</p> <p>DG stack Emission is being monitored by the third party once in 6 months and submitting reports of the same to Board.</p>														
9.	<p>The port shall comply with ambient air quality standards of PM10 (Particulate Matter size less than 10µ.m) - 100 µg/ m³; PM2.5 (Particulate Matter size less than 2.5 µm) - 60 I.ig/ m³; SO₂ - 80 µg/ m³; NO_x - 80 I.ig/m³, outside the factory premises at the periphery of the industry. Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.E-290I6/20/90/PCI-I, dated 18.11.2009.</p>	<p>Being complied.</p> <p>AKPL is operating 5 no. of Continuous Ambient Air Quality Monitoring stations at CVR Amenities Complex, towards Thamminapatnam Village and towards Krishnapatnam Village for the parameter PM_{2.5}, PM₁₀, SO₂, NO_x, CO and NH₃ and connected to APPCB website.</p>														

	<p>Noise Levels: Day time (6 AM to 10 PM) - 75 dE (A) Night time (10 PM to 6 AM) - 70 dB (A)</p>	<p>As per scientific Air modelling study report, additional 2 more CAAQM stations are installed in the port premises, one station at Northwest direction and second station at South direction.</p> <p>Coordinates of new 2 CAAQM Stations: Northwest side of the port 14°16'0.36"N & 80° 4'36.95"E.</p> <p>South side of the port 14°14'2.49"N & 80° 6'34.63"E.</p> <p>The Daily average for the Month of April 2025 Attached as Annexure - 1</p>
10.	<p>The Port shall take all measures including latest available technologies to comply with above ambient air quality standards</p>	<p>Being Complied.</p> <p>AKPL has been implementing the below measures to control emissions:</p> <p>Operating Mechanical Dust Suppression System (MDSS with 248 Nos. of sprinklers) at coal stacking and wagon loading areas.</p> <ol style="list-style-type: none"> a. 12 Nos. of Truck mounted sprinklers for roads and transit areas. b. 4 Nos. of heavy-duty Atomized Sprayers c. Provided hoppers for cargo unloading. d. Mechanized coal handling at 3 berths i.e., berth 6,7,8. Conveyors are designed with covering hood. e. Operating 3 Heavy duty vacuum sweeping machines and 6 tractor mounted mechanical road sweeping machines. f. Ensuring 100% Tarpaulin coverage to Cargo loaded Trucks and Rakes. g. Erected wind breaking shield of 450m on western side towards krishnapatnam village. h. Developed 213.60 Ha of Green belt along port boundary, around coal yards, avenue & median plantations.

11.	The Port shall not increase the capacity beyond the permitted capacity mentioned in this order, without obtaining CFE & CFO of the Board	Noted for Compliance. AKPL handled 4.89 MMTs of permitted Commodities in the Month of April 2025.
12.	Coal stack heights in all coal yards shall not be more than 12mts.	Noted and being complied
13.	The port shall ensure required wetness all the time on the surface of stockpiles to avoid the dust emissions from the stockpiles.	AKPL has been carrying out sprinkling around the stockpiles and operating MDSS.
14.	The port shall install sufficient number of CAAQM stations in between the villages and the port area. The stations shall be located at the periphery of the villages to monitor all the parameters given in the consent order.	Complied.
15.	The port shall maintain properly the three CAAQM stations provided and shall be connected to APPCB website.	Complied.
16.	Unloading of iron ore from the railway wagons house should be carried out with wagon tippers only, in case, handling of iron ore is more than 6 MTPA. As and when iron ore handling is to be done intermittently, it should be handled with water sprinkling system at high pressure with swiveling type nozzles operated regularly to cover entire stockpile. Nozzles shall be operated along stockpile at regular intervals to cover stockpile height and width.	AKPL has been carrying out sprinkling around the stockpiles and operating MDSS during handling of Iron ore.
17.	The port shall take adequate air pollution control measures with respect to the enhanced dusty materials handling capacities	Complied. Deploying 5 no. of jet water tankers in addition to 10 no. of DSS tankers to control dust emissions.
18.	The port shall stock all the dusty materials within the designated storage yards only.	Being Complied All the dusty cargos have been stored in Designated storage yards only.
19.	The port activities are concentrating in north quay by construction of 12th Berth, hence the stocking of dusty materials shall not be extended towards the residential areas around the port area.	Noted for compliance. We will not be extending dusty materials stocking towards the residential areas.

20.	The dusty materials transporting vehicles shall be closed in all respects/ covered with tarpaulin for controlling fugitive emissions	Being Complied. Provided 27 No. of Truck tarpaulin covering stations and ensuring all the outgoing cargo vehicles are properly covered with tarpaulin and tightened with rope to control fugitive emissions and transit spillages.
21.	The port shall provide wheel washing facility near the dusty cargo stocking area, to the freighted vehicles going outside the port.	Complied. Operating 2 No. of Truck wheel washing facilities and ensuring the outgoing trucks are cleaned properly before leaving the premises. i. One facility at NEC Road, Near to East - West Gate. ii. One facility at Southern side of the Port at North side of the Port.
22.	The port shall inform the modifications made in port infrastructure developments to the MoEF&CC and to the Board time to time.	Being complied.
23.	The port shall obtain EC for any change of scope of the project and shall restrict the port activities as permitted vide EC Orders Dt.26.07.2006 for Phase - I, 13.11.2009 for Phase - II & Phase-III (Expansion) 11.01.2021	Being complied.
24.	The port shall continuously operate the 3 CAAQM stations installed in between villages and port area to monitor all the parameters given in the consent order and upload the data continuously to the APPCB / CPCB websites.	Complied.
25.	The MDSS system shall be in operation wherever the stock of any bulk material (Dusty cargo) is piled in a way to ensure wetness on the surface of stockpiles.	Complied. Deploying 5 no. of jet water tankers in addition to 10 no. of DSS tankers to control dust emissions.
26.	As regards to deviation in location of facilities such as stockpiles and other facilities, from the originally envisaged plan, amendments for the EC and CFE have to be obtained immediately.	Being complied.
27.	The port shall maintain the existing green belt with adequate width and density and in vacant places	Complied.

28.	The port shall use road sweeping machines to clean all port internal roads regularly.	Complied. AKPL has been operating 3 no. of heavy-duty Vacuum Sweeping machines and 6 mechanical road sweeping machines.
29.	The port shall ensure that the trucks transporting cargos to outside the port shall be covered with tarpaulin to avoid fugitive emissions / spillages.	Being complied.
30.	All conveyor belts and other transfer points shall be covered with GI sheets to mitigate fugitive emissions generated during conveying of dusty cargos.	Complied Provided GI Sheet cladding and with sprinklers system to control fugitive emissions.
31.	The port shall maintain water sprinklers for effective control of fugitive emissions generated during handling of cargo and increased volume of vehicular traffic.	Complied. Deploying 5 no. of jet water tankers in addition to 10 no. of DSS tankers to control dust emissions.
32.	The port shall maintain Mechanical Dust Suppression System (MDSS) for stock yards, dusty cargo berths and conveyor belts.	Maintaining Mechanical Dust Suppression System (MDSS) for stock yards, dusty cargo berths and conveyor belts.
33.	The port shall develop and maintain 100 m width greenbelt along the periphery & 20m width around coal stack yards as per EC / CFE condition.	Being followed.
34.	The port shall maintain empty dusty cargo vehicles washing system to clean dusty cargo empty vehicles.	Complied. Operating 2 No. of Truck wheel washing facilities and ensuring the outgoing trucks are cleaned properly before leaving the premises. i. One facility at NEC Road, Near to East - West Gate. ii. One facility at Southern side of the Port at North side of the Port.
35.	The port shall record the energy consumption for the energy meters provided for Sewage Treatment Plant (STP), pump houses to water sprinklers / dust suppression measures and Air Pollution Control Equipment's (APCE)	Being followed.
36.	The port shall not allow any hazardous wastes through the port other than waste oil from DG Set, Waste oil from Ship, Wastes / residues containing oil	Being Complied. All the generated hazardous waste are being disposed through

	from ships, used oil generated in the Port without prior permission of Board and shall comply with EC conditions.	APEMCL portal.
37.	The port shall not store any hazardous waste within the premises as per the time frame mentioned in HWM Rules	Being followed.
38.	In case a leaky container of hazardous cargo is found, a separate permission of the Board may be obtained after establishing the quality and the type of waste for disposal	Being complied
39.	All types of the fertilizers should be stored in the closed warehouses only. The Port should ensure that there should not be any open storage of urea or any other fertilizer materials. There shall not be any effluent generation	Complied. Provided closed sheds of 13 Nos. to store the fertilizers.
40.	The port shall store fuel oils used for construction equipment, vessels and vehicles in a well-designed manner and protect them against fire hazards by construction of compound wall to prevent access to unauthorized elements. The surface run off from storage area shall pass through oil water separator before being discharged.	Complied
41.	The port shall provide fire detection and firefighting facilities with adequate water storage in fire prone areas in consultation with Directorate of firefighting.	Complied. Port is equipped with Fire fighting and detection facilities. Infrastructure like trained Fire Team, Fire Tenders (Multi purpose Fire Tender), semi fire tender etc., available at Port. Fire NOC has been obtained for Buildings (Admin and ETS).
42.	The port shall comply latest technologies for controlling fugitive emissions including the following: a) Fully mechanized handling equipment for loading and unloading operations b) Closed conveyor belt with water sprinkling arrangement for suppression of dust while conveying dusty cargoes like coal, iron ore etc.	Complied. a. Provided coal ship unloaders and conveyor at berths 6,7 & 8 b. Provided water sprinkling system in ship unloaders and conveyor system for dust suppression c. Provided Mechanical water sprinkling at coal storage yard and tankers to suppress the dust.

	<p>c) Specially designed iron ore ship loader with necessary precautions to reduce drop height of iron ore into the ship, while handling more than 6 Million Tons per annum.</p> <p>d) Mechanical water sprinkling shall be provided on roads and at dusty cargo storage areas for suppression of dust.</p>	
43.	The port shall maintain adequate number of ground water monitoring location on scientific basis and the same shall be monitored every six months	There is no ground water withdrawal within the port premises. AKPL appointed a NABL Accredited Laboratory to monitor the Ground water at 4 locations outside the port. As per the analysis reports, there was no adverse impact due to port operations.
44.	The port shall construct the storm water drains to avoid the contamination of runoff with other effluents.	Complied.
45.	The port shall regularly clean the drains to avoid siltation.	Being complied.
46.	The port shall monitor compliance through Environment Management Cell with qualified and trained staff.	Complied
47.	The port shall maintain onsite emergency action plan after carrying out risk analysis and hazop studies	Maintaining
48.	The port shall comply with the conditions of CFE order dated 08.05.2010, 22.02.2018 and 25.2.2021.	Being complied.
49.	The port shall submit monthly monitoring reports to RO: Nellore	Being submitted on a monthly basis.
50.	The port shall comply with standards and directions issued by APPCB / CPCB / MoEF&CC as and when notifications are issued from time to time	Being complied.
51.	The port shall install digital display boards at publicly visible places at the main gate indicating the products manufactured Vs permitted quantities, treated effluent concentrations Vs discharge standards, Stack emission & AAQ concentrations Vs standards,	Provided.

	hazardous waste generation, disposed, stock Vs permitted quantities and validity of CFO; and exhibit the CFO order at a prominent place in the factory premises, as per Hon'ble Supreme Court order	
52.	The port shall submit Half yearly compliance reports to all the stipulated conditions in Environmental Clearance (EC), Consent for Establishment (CFE) and Consent for Operation (CFO) through website i.e., https://pcb.ap.gov.in by 1st of January and 1st July of every year. The first half yearly compliance reports shall be furnished by the port and second half yearly compliance reports shall be the audited through MoEF&CC recognized and National Accreditation Board for Laboratory Testing (NABL) accredited third party	Complied. AKPL has Submitted First Half yearly EC, CTE, CTO compliance report for the period of April'24 to September'24 send to APPCB & CPCB through mail and the same copy was uploaded in Parivesh portal, APPCB Portal on 30.11.2024.
53.	The port shall possess valid NOC issued by the Andhra Pradesh State Disaster Response and Fire Service Dept., (APSDRFSD) and submit a copy at concerned Regional Office, APPCB.	Complied. Fire NOC has been obtained for Buildings (Admin and ETS 1 & 2).
54.	The port shall prepare a safety report and carry out an independent safety audit report of the respective industrial activities including chemical storages / isolated storages by an expert not associated with such industrial activity as required under Rule 10 of MSIHC Rules, 1989 and get it approved by the Factories Dept., and submit the compliance along with copy of the safety report, safety audit report and safety certificate at concerned Regional Office, APPCB.	Complied
55.	The port shall extend training to the working personnel for the prevention of accidents and necessary antidotes to ensure safety, as per the MSIHC Rules, 1989.	Being Complied.
56.	The port shall carryout calibration of safety equipment and leak detection systems at regular intervals and shall certify the same with the Factories	Being complied.

	Department. That certified copy shall be submitted to the APPCB, R & O.	
57.	The port shall install fluorescent Wind Vane at the highest point in the port premises	Installed.
58.	The port shall submit Risk analysis and risk assessment covering worst scenario clearly describing impact within the port premises and outside the port premises and emergency response system.	Complied.
59.	The port shall submit the copy of the safety audit report and On-Site / Off Site Emergency Plans as applicable after being certified by the Factories Department to the APPCB, Regional Office from time to time, if the storage quantity of hazardous chemicals is equal to or, in excess of the threshold quantities specified in schedule 2 & 3 of MSIHC Rules, 1989.	Complied.

Schedule C

1	The authorized person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.	This condition is noted and complied.
2	The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the State Pollution Control Board.	This condition is noted and complied.
3	The person authorized shall not rent, lend, sell, transfer, or otherwise transport the Hazardous and other wastes except what is permitted through this authorization.	This condition is noted and complied.
4	Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization	This condition is noted and complied.
5	The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site-specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;	This condition is noted and complied.

6	The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty".	This condition is noted and complied.
7	It is the duty of the authorized person to take prior permission of the State Pollution Control Board to close the facility.	This condition is noted and complied.
8	An application for the renewal of an authorization shall be made as laid down under these Rules.	This condition is noted and complied.
9	Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.	This condition is noted and complied.
Specific conditions		
10	The port shall comply with the provisions of HWM Rules, 2016 in terms of interstate transport of Hazardous Waste and manifest document prescribed Under Rule 18 and 19 of the HWM Rules, 2016.	This condition is noted and complied.
11	The port shall not store hazardous waste for more than 90 days as per the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.	This condition is noted and complied.
12	The port shall store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal to the manufacturers / dealers on buyback basis.	This condition is noted and complied.
13	The industry shall transport the hazardous waste to cement industries only through vehicle fitted with GPS tracking system.	This condition is noted and complied.
14	The industry shall maintain 7 copy manifest system for transportation of waste generated and a copy shall be submitted to concern Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter should carry a Transport Emergency (TREM) Card	This condition is noted and complied Waste oil generating from the port is being disposed through APEMC Portal authorized vendors.

<p>15</p>	<p>The industry shall maintain proper records for Hazardous and Other Wastes stated in Authorization in Form-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form-4 as per Rule 20 (2) of the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.</p>	<p>Complied.</p> <p>The following annual returns were submitted at APPCB, RO, SPSR Nellore on 29.04.2025</p> <ol style="list-style-type: none"> 1. Form – 3 – E – Waste Annual Statement for the FY 2024 – 2025. 2. Form – 4 – Hazardous Waste Annual Statement for the FY 2024 – 2025. 3. Form – 8 – Used Batteries Returns – Annual Statement for the FY 2024 – 2025.
<p>16.</p>	<p>Annual return shall be filed by June 30th for the period ensuring 31st March of the year.</p>	<p>Complied.</p> <p>The following annual returns were submitted at APPCB, RO, SPSR Nellore on 29.04.2025</p> <ol style="list-style-type: none"> 1. Form – 3 – E – Waste Annual Statement for the FY 2024 – 2025. 2. Form – 4 – Hazardous Waste Annual Statement for the FY 2024 – 2025. 3. Form – 8 – Used Batteries Returns – Annual Statement for the FY 2024 – 2025.

Adani Krishnapatnam Port Limited

Water Consumption details for the Month of April - 2025

S.NO	Purpose	Permitted Quantity (KLD)	Actual Consumption (KLD)
1	Dust Suppression & Miscellaneous (Fire protection services)	1950	1915
2	Gardening	400	324
3	Domestic	650	632
	Total	3000	2871

Annexure - 1

Adani Krishnapatnam Port Limited - CAAQM Daily Averages for April 2025

Date	Location -CVR Complex				
	PM10 - (ug/m3)	PM2.5 - (ug/m3)	SO2 - (ug/m3)	NO2 - (ug/m3)	CO - (mg/m3)
Parameter	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO
Standard	100	60	80	80	4
2025-04-01	30.7	33.36	10.58	27.51	1.11
2025-04-02	22.11	44.78	10.61	23.74	1.07
2025-04-03	15.66	37.08	10.49	10.63	1.03
2025-04-04	15.82	39.43	14.54	12.88	1.08
2025-04-05	12.67	32.69	13.71	9.6	1.08
2025-04-06	16.55	31.56	11.57	14.87	1.13
2025-04-07	13.04	28.41	10.67	15.42	1.1
2025-04-08	18.61	18.54	10.72	16.71	1.18
2025-04-09	28.59	14.68	11.67	10.55	1.17
2025-04-10	49.14	26.35	11.75	13.86	1.17
2025-04-11	49.34	28.17	12.1	14.65	1.24
2025-04-12	67.95	34.87	12.55	14.02	1.34
2025-04-13	56.79	35.25	12.43	12.66	1.33
2025-04-14	63.29	37.19	12.14	10.22	1.24
2025-04-15	58.29	33.87	11.83	10.01	1.22
2025-04-16	55.85	34.7	11.94	11.97	1.21
2025-04-17	61.26	34.77	13	8.28	1.23
2025-04-18	66.33	32.86	13.34	8.28	1.26
2025-04-19	55.03	34.35	12.49	8.94	1.31
2025-04-20	53.91	32.49	12.64	7.07	1.28
2025-04-21	60.68	34.68	12.1	6.85	1.27
2025-04-22	45.61	21.6	12.08	6.68	0.97
2025-04-23	40	19.08	13.88	7.62	0.23
2025-04-24	40.47	20.44	16.49	16.22	0.33
2025-04-25	39.11	18.31	11.57	22.17	0.5
2025-04-26	43.06	16.29	12.21	0.5	0.5
2025-04-27	27.66	12.16	12.35	0.51	0.56
2025-04-28	37.17	14.4	12.3	7.55	0.58
2025-04-29	39.49	11.4	11.31	13.91	0.63
2025-04-30	40.67	18.05	11.5	15.85	0.6
Average	40.83	27.73	12.22	11.99	1

Adani Krishnapatnam Port Limited - CAAQM Daily Averages for April 2025

Date	Location -Thamminapatnam Village				
	PM10 - (ug/m3)	PM2.5 - (ug/m3)	SO2 - (ug/m3)	NO2 - (ug/m3)	CO - (mg/m3)
Parameter	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO
Standard	100	60	80	80	4
2025-04-01	44.97	35.92	8.3	0.56	0.36
2025-04-02	37.58	38.11	8.15	1.79	0.32
2025-04-03	23.62	32.37	8.12	1.09	0.29
2025-04-04	26.38	35.81	9.16	4.07	0.3
2025-04-05	23.24	31.34	8.91	3	0.3
2025-04-06	21.29	31.25	8.84	2.57	0.31
2025-04-07	12.96	25.09	8.41	1.7	0.31
2025-04-08	11.04	21.67	8.34	2.37	0.32
2025-04-09	18.27	31	8.46	3.23	0.34
2025-04-10	42.99	17.57	9.4	2.2	0.44
2025-04-11	52.51	29.76	9.08	7.12	0.47
2025-04-12	66.18	34.94	8.68	8.13	0.53
2025-04-13	57.31	31.97	8.66	7.86	0.52
2025-04-14	52.49	31.32	8.48	4.5	0.44
2025-04-15	46.29	25.33	8.44	0.85	0.42
2025-04-16	37.39	22.49	10.45	5.15	0.5
2025-04-17	50.63	31.16	9.32	3.67	0.42
2025-04-18	51.82	27.49	8.57	1.9	0.39
2025-04-19	60.92	29.72	8.67	2.68	0.44
2025-04-20	55.68	29.72	8.64	1.05	0.42
2025-04-21	51.48	28.12	8.58	0.98	0.41
2025-04-22	32.18	17.74	9.05	2.12	0.53
2025-04-23	38.73	22.93	8.75	0.89	0.5
2025-04-24	18.35	9.11	8.83	4.57	0.31
2025-04-25	43.12	21.23	8.83	7.16	0.18
2025-04-26	40.91	18.12	8.82	6.91	0.16
2025-04-27	34.79	15.6	8.68	8.75	0.16
2025-04-28	24.57	11.47	8.7	7.73	0.21
2025-04-29	24.06	10.95	8.8	7.03	0.14
2025-04-30	32.72	16.02	9.41	7.12	0.15
Average	37.82	25.51	8.78	3.96	0.35

Adani Krishnapatnam Port Limited - CAAQM Daily Averages for April 2025

Date	Location -Krishnapatnam Village				
	PM10 - (ug/m3)	PM2.5 - (ug/m3)	SO2 - (ug/m3)	NO2 - (ug/m3)	CO - (mg/m3)
Parameter	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO
Standard	100	60	80	80	4
2025-04-01	63.6	39.05	13.01	16.78	0.77
2025-04-02	58.07	39.55	14.29	16.16	0.75
2025-04-03	49.15	25.11	11.81	15.18	0.74
2025-04-04	43.61	27.83	13.09	17.33	0.73
2025-04-05	47.78	30.27	15.34	19.19	0.77
2025-04-06	46.98	27.07	14.57	19.61	0.82
2025-04-07	35.08	20.05	11.8	18.28	0.7
2025-04-08	31.48	19.6	11.1	17.17	0.72
2025-04-09	37.99	21.83	11.09	17.52	0.81
2025-04-10	55.49	31.85	14.31	21.4	0.81
2025-04-11	62.56	40.77	13.23	24.37	0.83
2025-04-12	63.57	38.6	12.38	26.12	0.97
2025-04-13	66.08	37.27	11.65	22.19	0.9
2025-04-14	59.24	38.14	11.78	20.33	0.82
2025-04-15	62.05	35.43	13.03	19.4	0.81
2025-04-16	57.53	34.08	12.63	20.67	0.77
2025-04-17	64	35.54	12.45	21.78	0.78
2025-04-18	66.99	35.12	11.9	20.99	0.76
2025-04-19	75.15	42.52	11.66	23.08	0.79
2025-04-20	60.17	33.15	10.53	18.29	0.71
2025-04-21	61.84	37.3	10.59	20.2	0.77
2025-04-22	58.95	37.05	10.94	17.71	0.78
2025-04-23	51.77	28.53	11.8	9.84	1.07
2025-04-24	57.57	33.54	14.3	15.94	0.94
2025-04-25	49.24	30.74	12.37	15.02	0.85
2025-04-26	58.35	30.73	11.84	15.65	0.83
2025-04-27	50.38	26.1	12.72	17.41	0.81
2025-04-28	46.18	27.37	12.65	17.34	0.79
2025-04-29	43.72	23.64	12.39	15.64	0.79
2025-04-30	55.03	28.98	14.54	14.81	0.82
Average	54.65	31.89	12.53	18.51	0.81

Date	North_West_Side		South_Side	
	PM ₁₀	PM _{2.5}	PM ₁₀	PM _{2.5}
Standard	100	60	100	60
2025-04-01	75.21	42.67	86.08	47.12
2025-04-02	74.92	42.43	77.6	42.1
2025-04-03	75.15	42.62	65.55	34.93
2025-04-04	74.96	42.47	50.76	26.06
2025-04-05	75.01	42.51	63.34	33.13
2025-04-06	75.08	42.56	54.59	27.8
2025-04-07	75.24	42.7	38.07	18.02
2025-04-08	75.07	42.56	36.54	16.22
2025-04-09	75.19	42.66	43.81	21.1
2025-04-10	75.05	42.54	67.07	31.81
2025-04-11	74.89	42.41	77.35	42.09
2025-04-12	75.16	42.64	83.67	44.66
2025-04-13	75.21	42.68	82.64	43.7
2025-04-14	74.94	42.45	73.17	40.03
2025-04-15	75.01	42.5	70.38	38.1
2025-04-16	74.89	42.41	74.99	40.68
2025-04-17	74.61	42.17	73.96	40.26
2025-04-18	75.11	42.59	77.36	42.43
2025-04-19	75.07	42.56	85.14	46.28
2025-04-20	75.49	42.91	85.54	46.55
2025-04-21	74.88	42.4	83.45	45.33
2025-04-22	74.57	42.14	72.45	39.35
2025-04-23	74.96	42.47	66.22	35.82
2025-04-24	74.66	42.22	71.6	38.53
2025-04-25	74.94	42.45	78.49	42.51
2025-04-26	74.6	42.17	63.94	34.42
2025-04-27	75.1	42.58	56.91	29.65
2025-04-28	74.76	42.3	51.52	25.34
2025-04-29	74.83	42.36	35.94	16.64
2025-04-30	75.27	42.73	41.61	20.26
Average	74.99	42.5	66.32	35.03

GOVERNMENT OF ANDHRA PRADESH
WATER RESOURCES DEPARTMENT

From
Sri P.M. Khan, B.E.,
Executive Engineer (FAC),
Drainage Division,
Nellore .

To
The Director & CEO.,
M/s Adani Krishnapatnam Port Ltd.,
Krishnapatnam Post Box - No.1,
Muthukur mandal,
SPSR Nellore District.

Letter No: EE/DB/TO/Nakkala Kalava/ 329^M Dated: 16 -10-2023.

Gentleman,

Sub:- Revised rates agreement - Drawal of 4.9 cusecs of water from Nakkala kalava by Adani Krishnapatnam Port Limited - supplemental Agreement accepted - Regarding.


- Ref:- 1) G.O. Ms.No.39, I&CAD (PWGC& IWS) Dept, date: 02-04-2002.
2) Agt No.01 DN Lease/2010-11, dated: 28-07-2010.
3) G.O.Rt.No.202, Industries & Commerce (INF) Dept., date: 6-12-2014.
4) G.O.Ms.No.1, Industries & Commerce (P&I) Dept., date: 12-01-2022.
5) Letter No.ENC (I) EE/DEE/AEE2/WS/Certain clarification related to G.O.Ms. No.1, date: 18-10-2022 vide SE/IC/NLR Endt No.551gl, date: 09-11-2022.
6) SB/IC/Nellore/DEE2/(1) AEE-1/Royalty charges 241gl, date: 14-07-2023.
7) This office Letter No.EE/DB/TO/ Nakkalakuva 184M, date: 14-08-2023.
8) Adani Krishnapatnam port Limited dated: 24-08-2023.

The revised rate of agreement for " Drawal of 4.9 cusecs of water from Nakkala Kalava drain is accepted in your favour and Registered as Divisional supplemental Agreement No. **01** /2023-24.

A copy of the supplemental agreement is here with enclosed. You are requested to contact the Deputy Executive Engineer, Drainage Sub Division No.1, Nellore who is the authorized representative at all times at site of work.

Encl:- Copy of Agreement.

Yours Sincerely



Executive Engineer,
Drainage Division, Nellore.

16/10/2023



Government of Andhra Pradesh



e-Stamp

Certificate No. : IN-AP27270750489761V
 Certificate Issued Date : 13-Sep-2023 01:33 PM
 Account Reference : NEWIMPACC (SV)-ap18063304/ AP-NLRF/ AP-MTK/apkrishna
 DDO Code : 27002308001 O/o IGR
 Unique Doc. Reference : SUBIN-APAP18063304/4790888061823V
 Purchased by : SATEESH GAMGA
 Description of Document : Article 8 Agreement
 Property Description : Not Applicable
 Consideration Price (Rs.) : 0
 (Zero)
 First Party : ADANI KRISHNAPATNAM PORT LTD
 Second Party : Not Applicable
 Paid By : ADANI KRISHNAPATNAM PORT LTD
 Stamp Duty Amount(Rs.) : 100
 (One Hundred only)



Please write in type below this

This Original Agreement No.1 /2010-11, dated 28-07-2010 ("Supplemental Agreement") is made on this 16th day of October, 2023

Between his excellency the Governor of Andhra Pradesh represented by the Executive Engineer, Water Resources Department, Drainage Division, Nellore herein after called the "Government." As one part

And

ADANI KRISHNAPATNAM PORT LTD a company incorporated under the provisions of the Companies Act, 1956 or 2013 having its site office P.O Bag No.01, Muthukur Mandal, SPSR Nellore District, Andhra Pradesh 524344 and its Registered Office at Adani Corporate House, Shanti gram, Near Vaishno Devi Circle, S.G. Highway, Khodiyar, Ahmedabad-382421, Gujarat, India (Hereinafter referred to as the "Company" or "AKPL") of the other part

Supplemental agreement No. /2023-24, dt/10/2023

[Signature]
For Adani Krishnapatnam Port Limited

[Signature]
16/10/2023
Executive Engineer,
Drainage Division, Nellore.

0015581087

Managing Director

Statutory Alert:

1. The authenticity of the Stamp certificate should be verified at www.e-stamp.gov.in in case of any discrepancy in the details of the Certificate and also visit the site on www.etrack.in
2. The mode of checking the legitimacy is on the basis of the certificate

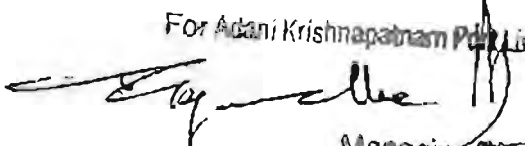
Recitals:


- A. Whereasthe Company has applied to the Government for License to draw 4.9 cusecs (17640 cft drain water per hour) for 8 hrs. in a day for a period every year from NakkalaKaluva Drain. The Government agreed to grant License and the Company has agreed to accept the license for the terms and conditions set forth therein and executed the same through an Agreement No.1 Lease /2010-11 dated 28-07-2010 (Herein after referred as "Original Agreement")
- B. Where as the company has paid an amount of Rs 1,19,070/- (Rupees One Lakh Nineteen Thousand Seventy Only) Vide DD. No,202979 dated 24-07-2010 at State Bank of India Krishnapatnam Port Branch SPSR Nellore District in favor of Assistant Pay & Accounts Officer, Somasila Project, Nellore as and for security for fulfillment and observance of the conditions, covenants and stipulations in these presents of the Original Agreement.
- C. Where as it has been agreed between the Company and the Government that the Original Agreement is required to be amended to incorporate the revised Clauses of Preamble, Water Charges by executing this Supplemental Agreement (herein after referred as "Original Agreement").
- D. Where as the Company has paid an amount Rs 3,17,520/- (Rupees Three lakhs Seventeen thousand Five Hundred and twenty Only) Vide challan. No: 71269405462023 dated 04.09.2023 for difference of three months initial advance security for fulfillment and observance of the conditions, covenants and stipulations in these presents in order to renew the agreement with the amendments set forth here under.

NOW IT IS HEREBY AGREED AND DECLARED BY THE PARTIES TO THE SUPPLEMENTAGRBEMENT AS FOLLOWS:

1. The Preamble of the Original Agreement is amended and now be read as below:

"ADANI KRISHNAPATNAM PORT LTD a company incorporated under the Provisions of the Companies Act 1956/2013 having its site office P.O Bag No.01, Muthukur Mandal, SPSR Nellore District, Andhra Pradesh 524344 and its Registered Office at Adani Corporate House, Shanti gram, Near Vaishno Devi Circle, S.G. Highway, Khodiyar, Ahmedabad-382421, Gujarat, India (Hereinafter referred to as the "Company" or "AKPL")which expression shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its successors and assigns). of the one part and:

For Adani Krishnapatnam Port Limited

Managing Director


16/10/2023
Executive Engineer,
Drainage Division, Nellore

2. The following clause 4 of the Original Agreement is amended and now be read as follows:


"4: The Company Shall pay Water charges at:Rs 5.50 per 1000 Gallons in terms of G.O.Ms. No. 202 Industries & Commerce (INF) Dept dated 06-12-2014 or at any other rate fixed by the Government from time to time payable every month as agreed with the supplier. This rate is subject to revision by the Government from time to time."


3. As G.O.Rt. No.1, Industries & Commerce (INF) Dept, date: 12-01-2022 is kept under abeyance temporarily present rate applicable is Rs. 5.50/1000 gallons only. In the event of modification of rate in future by the Government due to final verdict in the court or otherwise, subject to applicability of Government order to AKPL for consumption of Nakkala kalava drain water, AKPL shall pay new rates applicable and from the effective date as mentioned in Government Order.

4. Miscellaneous:

- I. The Company and the Government hereby agree that this supplemental Agreement is amalgamated with Original Agreement and be constituted as a Complete Original Agreement.
- II. The provisions of this Supplemental Agreement shall modify the terms and conditions set forth in the Original Agreement to the limited extent only as set out in the Supplemental Agreement. Except as specifically and expressly provided under this Supplemental Agreement, all other provisions of the Original Agreement shall remain unchanged and in full force and effect and shall continue to remain applicable and binding on Parties thereto and hereto. Any reference to the Original Agreement in any other agreement or document shall be deemed to mean a reference to the Original Agreement as amended by this Amendment Agreement.
- III. In the event of any conflict or inconsistency between the Original Agreement and this Supplemental Agreement in respect of provisions set out herein, the provisions of this Supplemental Agreement shall prevail over Original Agreement.
- IV. This Supplemental Agreement shall be deemed co-terminus with the Original Agreement and shall terminate automatically upon the termination of the Original Agreement without any further actions from the Parties.

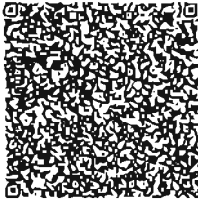
In witness whereof the parties have duly executed this Supplemental Agreement to the Original Agreement hereunto set their hands and seal on the day and year above mentioned.


Managing Director


Executive Engineer,
Drainage Division, Nellore.



Certificate No. : IN-AP33811821463438V
 Certificate Issued Date : 16-Oct-2023-03:35 PM
 Account Reference : NEWIMPACC (SV)/ ap18063304/ AP-NLR&AP-MTK/apkassih
 DEPD Code : 27002308001 O/o IG R
 Unique Doc. Reference : SUBIN-APAP1806330457718150174738V
 Purchased by : SATEESH GANGA
 Description of Document : Article 6 Agreement
 Property Description : Not Applicable
 Consideration Price (Rs.) : (Zero)
 First Party : ADANI KRISHNAPATNAM PORT LTD.
 Second Party : Not Applicable
 Paid By : ADANI KRISHNAPATNAM PORT LTD
 Stamp Duty Amount (Rs.) : 100
 (One Hundred only)



Please write or type below this line

H.T. AGREEMENT

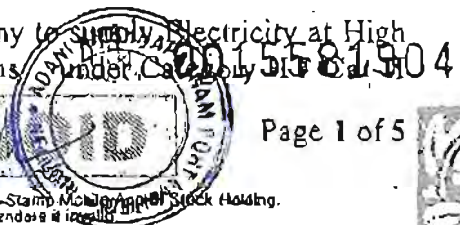
Agreement executed this 07th day of October 2023 by M/s Adani Krishnapatnam Port Ltd, (AKPL) at Krishnapatnam Port, Muthukur Mandal SPSR Nellore District for themselves/himself/itself and for their/his/its/hers, assigns and successions in favor of The Southern Power Distribution Company, a statutory corporation constituted under Section 23 of the AP Electricity Reform Act 1998 henceforth referred to as the "Company".

Recitals:

- A. WHEREAS CGM (O&M), APSPDCL Tirupati has approved through Memo No: CGM/O&M/GM/EE/C/F. e-76988/D. No. 2626/23 dated 05/10/2023 for the release of balance 2000KVA out of 6000KVA in phase IV to the existing CMD of AKPL.
- B. WHEREAS AKPL has paid an amount of Rs 60,00,000/- to the APSPDCL towards the security deposit for the enhancement of CMD @ 6000KVA (4000 KVA+2000KVA) in Phase-IV.

1. SUPPLY OF POWER:

I/We the above mentioned have requested the Company to supply Electricity at High Tension for the purpose of Port Shipping Operations under Category B/C/D.



VOID VOID VOID

Statutory Alert:

- 1. The authenticity of the Stamp certificate should be verified at www.stampsstamp.com or using e-Stamp Mobile App/Stock Holding. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
- 2. The onus of checking the legitimacy is on the users of the certificate.
- 3. In case of any discrepancy please inform the Competent Authority.

HT Cat-II (A)1 and the Company has agreed to afford such supply on the General terms and conditions notified by them from time to time under Section 21 of the License Distribution and Retail Supply License Conditions and those hereinafter mentioned.

2. **LOAD/MAXIMUM DEMAND:**

I/We agree to take from the Company, Electric Power for a CMD of 41000 KVA in phased manner of Pbase IV 2000 KVA to the Existing CMD of 17000 KVA totaling to a CMD of 19000 KVA (Phase-V 22000KVA as per the request to company) under PIT CAT-II for our exclusive use for the purposes above mentioned, at our Port premises situated in Krishnapatnam Village, Muthukur Mandal. I/We shall not affect any change in the Contracted demand without prior intimation to the company.

3. **RE-SALE OF ELECTRIC POWER:**

I/We undertake that; I/We shall not sell electrical energy obtained under this agreement without the sanction in writing of the Company.

4. **OBLIGATION TO COMPLY WITH REQUIREMENT OF ACTS, AND TERMS AND CONDITIONS OF SUPPLY:**

I/We further undertake to comply with all the requirements of the Indian Electricity Act, 2003, the Rules and Regulations framed there under, provisions of the tariffs, scale of Miscellaneous and General charges and the terms and conditions of supply prescribed by the Company without Approval of the AP Electricity Regulatory Commission herein after called as Commission from time to time and agree not to dispute the same.

5. **DATE OF COMING INTO FORCE OF THE AGREEMENT:**

I/We shall begin/take electrical energy from the Company under the conditions of this Agreement within three months from the date of issue of intimation in writing to me/us by the Authorized officer of the Company that supply of electrical energy is available. The provisions of this agreement shall be deemed to come into force from the date of commencement of supply of energy or the date of expiry of three months' notice above referred to, whichever is earlier.

6. **PERIOD OF AGREEMENT:**

I/We undertake to avail ourselves of supply for a minimum period of 4 years from the date this agreement comes into force.

Nage

A circular blue ink stamp of Adani Krishnapatnam Port Limited. The text around the perimeter reads "ADANI KRISHNAPATNAM PORT LIMITED". In the center, there is a star and the text "ADANI KRISHNAPATNAM PORT LIMITED". A signature "Nage" is written over the stamp.

7. **DETERMINATION OF THE AGREEMENT:**

I/We shall be at liberty to determine the Agreement by giving in writing three months expressing such intention at any time after the period of two years. If for any reason, I/We choose the three months to derate/terminate the Agreement before the expiry of the three months' notice period or expiry of the initial two-year period whichever is later. I/We agree that the company may terminate this Agreement at any time giving three months' notice if, I/We violate the terms of this agreement or the General terms and conditions of supply notified by the Company with the Approval of the Commission from time to time or the provisions of any law touching this agreement including the Electricity Act, 2003, the Rules and Regulations framed there under. This agreement shall remain in force until it is terminated as indicated above. In computing the periods of 2 years referred to above the period or periods for which the annual minimum guarantee has or have been waived or reduced shall be excluded.

8. **OBLIGATION OF CONSUMER TO PAY ALL CHARGES LEVIED BY COMPANY:**

From the date of this agreement comes into force. I/We shall be bound by and shall pay the Company maximum demand charges, Energy charges, surcharges, meter rents and other charges, if any in accordance with the tariffs applicable and the General terms and conditions of supply prescribed by the Company from time to time for the particular class of consumers to which I/We belong.


9. **COMPANY'S RIGHT TO VARY TERMS OF AGREEMENT:**

I/We agree that the Company shall have the unilateral right to vary, from time to time, tariffs, scale of general and miscellaneous charges and the General terms and conditions of supply under this agreement by special or general proceedings. In particular, the Board shall have the right to enhance the rates chargeable for supply of electricity according to exigencies.

10. **MONTHLY MINIMUM CHARGES:**

I/We shall pay minimum charges every month as prescribed in tariff, and General terms and conditions of supply even if no electricity is consumed for any reason whatsoever and also if the charges for electricity actually consumed are less than the minimum charges. The minimum charges shall also be payable by me/us

Nagesh



even if electricity is not consumed because supply has been disconnected by the Company because of non-payment of electricity charges, Theft of Electricity or Unauthorized use of electricity or for any other valid reason.

11. **SPECIAL ANNUAL MINIMUM GUARANTEE:**

In consideration of the Company making arrangements for supplying electrical energy to me/us, I/We agree with effect from the date of commencement of this agreement for the period of two years to guarantee a minimum payment of Rs. 20,00,00,000/- (Rupees Twenty Crores only) every year towards demand and energy charges only, exclusive of payments towards surcharge, or other payments by whatever name they be called. If the amounts actually paid towards demand and energy charges during any year fall short of the guaranteed minimum, the amount of deficit shall be deemed to be an arrears of electricity charges and recovered accordingly.

12. I/We hereby agree that if I/We am/are found including in theft of energy or Unauthorized use of electricity in respect of use of electrical energy, I/We shall pay additional charges as may be levied by the Company. I/We also agree that in such an event the Company shall in addition to the levy of the additional charge have the right to disconnect the supply of electricity to my/our premises for such period as may be decided by the Company.

13. I/We requested the Company to provide the meter for measuring the electricity supplied to me and the Company has agreed for the same. Accordingly, I/We agree to pay the monthly meter rentals, as may be fixed by the Commission from time to time.

14. I/We requested the company to release the Phased Manner (Phase IV-2000 KVA to the Existing CMD of 17000 KVA totaling to a CMD of 19000 KVA) and the balance 22000KVA may be released in a Phased Manner.


Executive Engineer,
Operation: APSPDCL
Nellore Rural.


Nagesh

Phase Manner	Maximum Demands (KVA)	Cumulative Maximum Demands (KVA)	Power Supply Required from
Phase-I	5000	5000	Released on 24.07.2012
Phase-II	4000	9000	Released on 24.04.2015
Phase-III	4000	13000	Released on 15.10.2018
Phase-IV	4000	17000	Released on 11-04-2023
Phase -IV	2000	19000	Released on 07-10-2023
Phase-V	22000	41000	As per the request to the Company

SIGNATURE: *Nagesh*

Date 07/10/2023.



Signed by the applicant in my presence.

Witness I

Signature *[Handwritten Signature]*

Name & Address M. Manoj Verma, Hainathapuram, Nellore.

Date: 07/10/2023.

Witness II

Signature *[Handwritten Signature]*

Name and Address Latchmena Rao, DL Puram, Nellore.

Date: 07/10/2023.

[Handwritten Signature]
 Executive
 Operation: APS
 Nellore
 Page 5 of 5



e-Stamp

Certificate No. : IN-AP75910815397232W
 Certificate Issued Date : 30-Mar-2024 01:11 PM
 Account Reference : CSCACC (GVV apcscacc07/ AP/ ATP/ AP-ATPMS1495/apmsnah1495u
 DDO Code : 27002308001 O/o IG R
 Unique Doc. Reference : SUBIN-APAPCSCEG0741017479574680W
 Purchased by : ATRIA WIND POWER PVT LTD
 Description of Document : Article 8(C) Agreement In any other case
 Property Description : POWER PURCHASE AGREEMENT
 Consideration Price (Rs.) : 0
 (Zero)
 First Party : ATRIA WIND POWER PVT LTD
 Second Party : Not Applicable
 Paid By : ATRIA WIND POWER PVT LTD
 Stamp Duty Amount(Rs.) : 100
 (One Hundred only)



Please write or type below this line

POWER PURCHASE AGREEMENT

This Power Purchase Agreement ("PPA"/ "Agreement") is made on this 01st day of April, 2024 at Bangalore, Karnataka.

BY AND BETWEEN:

1. **ATRIA WIND POWER PRIVATE LIMITED**, a company incorporated under the provisions of the Companies Act, 2013, with its CIN as U40108KA2014PTC074201 and registered office at 1st Floor, No. 11 Commissariat Road, Bangalore, Karnataka 560025 (hereinafter referred to as "Company", which expression shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its successors and assigns);

AND

2. **ADANI KRISHNAPATNAM PORT LIMITED**, a company incorporated under the provisions of the Companies Act, 1956, with its CIN as U45203GJ1996PLC128239 and registered office at Adani Corporate House, Shantigram, Near Vaishno Devi Circle, S.G. Highway, Khodiyar, Ahmedabad, Gujarat, India 382421 (hereinafter referred to as "Purchaser", which



0000 286615

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- 2. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid
- 3. The onus of checking the legitimacy is on the users of the certificate
- 4. In case of any discrepancy please inform the Competent Authority

shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its successors and permitted assigns).

The Company and Purchaser are individually also referred to as a Party and collectively as the Parties.

WHEREAS

- A. The Company is in the business of power generation through renewable energy resources and is currently operating a project of 25.5 MW installed capacity wind power projects located at Gangadevi Palli, Pulivendula, YSR Kadapa district, Andhra Pradesh ("Project").
- B. The Project has achieved commissioning of its entire capacity and is expected to generate 7,00,00,000 kWh of power per annum at 90% (Ninety Percent) probability of exceedance (P-90).
- C. The Purchaser is in the business of owning and operating commercial ports and is currently consuming approximately 72 (Seventy Two) million kWhA of power per annum from AP Sothern Power Distribution Company Limited ("DISCOM").
- D. The Purchaser wishes to procure power from the Project and upon request to the Company, the Company has agreed to supply power from the Project to the Purchaser in accordance with the terms of this PPA, Applicable Law and on the basis that the Project is a Captive Generating Plant of the Purchaser and shall remain a Captive Generating Plant of the Purchaser during the subsistence of this Agreement.
- E. The Purchaser has agreed to subscribe to up to 2,74,809 shares i.e., 13.35% of the total equity share capital of the Company, with voting rights, and endeavour to consume about 42% of power comprising 3,60,00,000 kWh of power on annual basis.
- F. The Company has entered into/ is contemplating to enter into separate power purchase agreements with other industrial/ commercial consumers in order to achieve the sale of 51% (Fifty-one Percent) of the total electricity generated in the Project and proportionately require such industrial/ commercial consumers to subscribe or acquire 26% (Twenty-six Percent) of the total equity share capital of the Company, in order for the Project to qualify as a 'Captive Generating Plant' under the Electricity Laws.
- G. The Company shall obtain necessary approvals for the sale of power generated from the Project to the Purchaser and enter into such arrangements required with APTRANSCO/ DISCOM as required to supply power to Purchaser, and the Purchaser agrees to provide all assistance in this regard, as appropriate. The Purchaser will be obtaining the No Dues certificate from the DISCOM and calibration of metering equipment should it be required.



NOW, THEREFORE, in consideration of the foregoing, the respective representations, warranties, covenants, terms, conditions and understandings set forth in this PPA, the receipt and sufficiency of which is hereby acknowledged, and intending to be legally bound hereby, Company and Purchaser agree as follows:

1. DEFINITIONS

In this PPA unless the context otherwise requires:

Annual Contracted Quantity means power to be delivered to the account of the Purchaser by the Company at the Delivery Point net of Transmission Losses, as set out in Schedule 1;

APERC means Andhra Pradesh Electricity Regulatory Commission;

Applicable Law means, in relation to this PPA, all laws including Electricity Laws in force, statute, decree, ordinance, regulation, notice, circular, code, scheduling requirements, restriction and curtailment orders, categorization of consumers, rule or direction, or any interpretation of any of them by a Governmental Instrumentality and includes all applicable rules, regulations, orders, directions, notifications by a Governmental Instrumentality pursuant to or under any of them;

APTRANSCO means the Andhra Pradesh Power Transmission Corporation Limited or its successor entities established under Electricity Laws;

Arbitration Act means the Arbitration and Conciliation Act, 1996 and its rules, as amended from time to time;

Banking Charges means applicable charges to be paid to distribution licensee for banking the surplus power generated;

Change in Law means:

- (a) the enactment, bringing into effect, adoption, promulgation, amendment, modification or repeal, after the date of this PPA of any statute, decree, ordinance or other law, regulation, notice, circular, code, order, categorization, incentive/penalty, rule or direction by any Governmental Instrumentality or a change in its interpretation by a competent court, tribunal, ERC, Tribunal, GoI or other Governmental Instrumentality, of any of the above provisions, or
- (b) change in any consents, approvals, or licenses available or obtained for the matters contemplated hereunder, which results in any change in any cost of or revenue from the business of generating and selling electricity by the Company under the terms of this PPA or the imposition by any Governmental Instrumentality of any material condition in connection with the issuance, renewal, modification (including ceasing to have full force and effect or inclusion of any consents, permissions, approvals or actions of similar nature), revocation or non-renewal (other than for cause) of any consent.



(c) change in the rates of taxes or duties imposed by any Governmental Instrumentality including but not limited to electricity duty or grid support charges;

Check Meters means the meters connected in parallel to the same core of the current transformers (CTs) and potential transformers (PTs) to which the main Metering System is connected and which could be used for energy accounting and billing in case of failure of the main Metering System;

COD means date of commissioning of the Project;

Company Event of Default has the meaning ascribed to in Clause 15.1;

Concession Agreement means the Revised Concession Agreement dated September 17, 2004 entered between GoAP and the Purchaser for an initial period of 30 years from Adani Krishnapatnam Port Limited achieving the commercial operation date (ie., March 20, 2009) and any subsequent amendments, modifications or extensions thereto from time to time;

Contracted Capacity has the meaning ascribed to it in Clause 8.1;

Day means a period of 24 consecutive hours beginning at 00-00 hours on each day;

Delivery Point means the electricity supply main/s of the Purchaser at 132 kV Substation in Adani Krishnapatnam Port, which has an ABT compliant Metering System comprising Main, Check and Standby Meter and associated CT/PT of 0.2S class installed, where the Purchaser receives the electricity generated from the Generation Point through the Interconnection Facilities;

DISCOM means Andhra Pradesh South Power Distribution Company Limited which is one of the Electricity Distribution Companies in Andhra Pradesh;

Due Date of Payment has the meaning ascribed to it in Clause 13.1(b);

Electricity Laws means the Electricity Act, 2003 and the codes, rules and regulations made there under from time to time along with amendments and replacements thereof in whole or in part and any other Applicable Law related to electricity;

ERC mean Electricity Regulatory Commission;

Extended Term has the meaning ascribed to it under Clause 3.1;

Financial Lock-In Period means the period of 10 years from the first day of supply of wind energy from the project, in which either party cannot terminate this PPA except under the extreme circumstances specified in Clause 19 (Force Majeure);

Fiscal Year means the 12 months period starting 1st April of any calendar year and ending 31st March of the next calendar year;



Generation Point means the point at which Company shall deliver power through the Interconnection Facilities to the Delivery Point;

“GoAP” means Government of Andhra Pradesh;

GoI means the Government of India; **Governmental Instrumentality** means any legislative, judicial, regulatory, executive or other governmental body (including any agency, department, board, instrumentality, commission, office or authority) of the Government of India or Government of Andhra Pradesh or local authority or any political sub-division thereof;

Grid Outage means an interruption or reduction in the power delivery/supply capability of the Project that is due to technical problems or overload conditions in the grid;

High Tension or HT means a voltage equal or higher than 400/440 volts;

Initial Term has the meaning ascribed to it in Clause 3.1;

Interconnection Facilities or Grid means the facilities of the AP Transmission Company and/or the AP Distribution Companies required to transmit the electricity generated from the Generation Point to the Delivery Point, except for equipment required for Metering Facilities;

kV means kilo volt;

Maintenance Outage means an interruption or reduction in the generating capability of the Project –

- (a) is not a Scheduled Outage;
- (b) is for the purpose of performing work on specific components, which cannot be Postponed until the next Scheduled Outage or is required due to Change in Law or a force majeure event;

Metering System means all meter(s) and current and potential transformers along with cubicles and installed at the Generation Point or the Delivery Point for measuring and recording the delivery and receipt of energy;

Month means a calendar month;

MU means Million Units;

MW means Megawatt(s);

Notice of Default has the meaning ascribed to it Clause 15.3(i);

Notice of Termination has the meaning ascribed to it in Clause 16.2;

Other Users means the remaining shareholders of Company solely determined by Company,



who collectively (along with the Purchaser) hold not less than 26% of the entire Equity Share capital of Company and consume not less than 51% of the total electricity generated by the Company, as required to be qualified as a 'Captive Generating Plant' under the Electricity Laws.

PLF means plant load factor of the Project;

Prudent Utility Practices means those practices, methods, techniques and standards as prevalent from time to time, that are generally accepted in Andhra Pradesh for use in electrical utility industries and commonly used in prudent electric utility engineering and operations to design, engineer, construct, test, operate and maintain equipment lawfully, safely, efficiently and economically as applicable to power plants of size, service and type as that of the Project and that generally conforms to manufacturers' operation and maintenance guidelines and is in compliance of the Applicable Law;

Purchase Price has the meaning ascribed to in Clause 9;

Purchaser Dispute means any dispute arising in connection with or out of the interpretation, performance, termination of this PPA, or otherwise in connection with this PPA;

Purchaser Event of Default has the meaning ascribed to it in Clause 15.2;

Quarter means any of the following four 3 monthly periods of a Fiscal Year:

- (i) **Quarter 1** means period from 1st April to 30th June;
- (ii) **Quarter 2** means period from 1st July to 30th September;
- (iii) **Quarter 3** means period from 1st October to 31st December;
- (iv) **Quarter 4** means period from 1st January to 31st March.

SAO means Senior Accounts Officer;

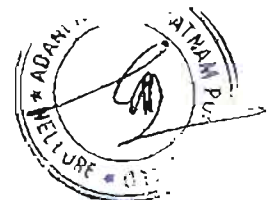
Scheduled Outage means a planned interruption of the generating capability of the Project:

- (a) for inspection, testing, preventive maintenance, corrective maintenance, repairs, replacements and improvements; and
- (b) which is not a Maintenance Outage;

Scheduled Supply Date or **SSD** means the date on which this Agreement is executed between the Company and the Purchaser being the date for commencement of the supply of the Contracted Capacity under this PPA and the Purchaser is ready, in all respects, for the receiving and consumption of such supplied power;

Shareholding Company means M/s Atria Wind Private Limited;

SEB means State Electricity Board;



SPSHA means Share Purchase and Shareholders' Agreement executed among the Purchaser, Shareholding Company and Company;

Taxes and Duties shall have the meaning ascribed to it in Clause 10.1;

Transmission Charges means applicable charges to be paid to APTRANSCO for transmission of power;

Transmission Losses means applicable losses to be paid to APTRANSCO for transmission of power;

Tribunal has the meaning ascribed to it in Clause 23;

Unit(s) means kilowatt hour or kWh/KWAh as per the DISCOM's billing;

Wheeling Charges means applicable charges to be paid to distribution licensee for wheeling of power; and

Wheeling Losses means applicable losses to be paid to distribution licensee for wheeling of power.

2. INTERPRETATION

In this PPA unless the context otherwise requires:

- (a) References to any statute or statutory provision or order or regulation made there under shall include that statute, provision, order or regulation as amended, modified, re-enacted or replaced from time to time whether before or after the date hereof.
- (b) References to persons shall include body corporate, unincorporated associations, partnerships and any organisation or entity having legal capacity.
- (c) Headings to Clauses are for convenience only and shall not form part of the operative provisions of this PPA and shall not be taken into consideration in its interpretation or construction.
- (d) References to Recitals, Clauses and Schedules are, unless the context otherwise requires, references to recitals or clauses of this PPA.
- (e) References to the words **include** or **including** shall be construed as being suffixed by the words **without limitation**.
- (f) Unless the context otherwise requires, words importing the singular include the plural and vice versa.
- (g) Neither Party shall be liable to the other for any consequential, indirect or special damages to persons or property whether arising in tort, contract or otherwise, by reason of this PPA or any



services performed or undertaken to be performed hereunder (including but not limited to loss of production, loss profits, loss operations).

- (h) Any other terms used in this PPA shall have the meanings as agreed between the Parties, commonly used in the English language and in standard utility parlance and accepted in electricity trade. In case of ambiguity both parties shall take reliance to the Electricity Act, Rules and ERC Regulations for the interpretation of these terms. In addition, references to "Articles", "Sections" or "Exhibits" shall be to articles, sections, or exhibits of this PPA.

3. TERM OF PPA

- 3.1 The term of the PPA shall be Ten (10) years ("Initial Term") with a financial lock-in of ten (10) years from the date of PPA in force and (the term of the PPA may be extended for another term of Nine (9) years ("Extended Term") after the expiry of the Initial Term subject to mutual consent of the Parties..
- 3.2 In the event the PPA is extended for another term of Nine (9) years beyond the Initial Term,
- 3.3.1 the change in DISCOM's tariff leads to increase in the Purchase Price, the Purchase Price agreed under this PPA shall be applicable for the entire Extended Term;
- 3.3.2 the change in DISCOM's tariff leads to decrease in the Purchase Price, the benefit of the saving shall be transferred to the Purchaser.

In case either Party decides not to extend the term of the PPA beyond the Initial Term, then such Party has the right to terminate the PPA by giving notice of four (4) months and without incurring any termination penalty specified in Clause 16.1

- 3.3 Save and except as expressly provided in Clause 4 (Conditions Precedent to the Effectiveness of PPA), Clause 19 (Force Majeure), Clause 23 (Arbitration) and Clause 24 (Miscellaneous), the respective rights and obligations of the Parties under this PPA shall be subject to the satisfaction or waiver of the Conditions Precedent as set out in Clause 4.

4. CONDITIONS PRECEDENT TO THE EFFECTIVENESS OF PPA

- 4.1 This PPA shall become effective upon the satisfaction or waiver in writing of all of the following conditions precedents:
- (a) The Purchaser shall subscribe a maximum of INR 7,19,99,958 (Indian Rupees Seven crore nineteen lakh ninety nine thousand nine fifty eight rupees only) as Equity Shareholding which shall constitute 13.35% (Thirteen point three five Percent) of the equity share capital of the Company or an equity share capital in proportion to the shareholding requirements under the Group Captive User under the prevailing Electricity Laws.



- (b) The Purchaser has executed its respective SPSHA and fulfilled all mutually agreed conditions precedent / conditions subsequent (if any) to the effectiveness of the SPSHA.
- (c) The Company shall have achieved COD for its full capacity and executed wheeling and banking agreement with Transmission/Distribution licensee for transmission or/and wheeling of power from the Generation Point to the Delivery Point.
- (d) The Purchaser will make reasonable efforts to facilitate the required assistance for obtaining open access approval by the Company from the Area Distribution Licensee for use of transmission lines for supply of power from the Generation Point at the Project to the Delivery Point.
- (e) The Purchaser shall have installed the ABT compliant Metering System as per the requirements of APTRANSCO/DISCOM at the Delivery Point for accurately recording the receipt of electricity from the Generation Point.
- (f) Receipt of the NOC (No Objection Certificate) by Company from the DISCOM for the Purchaser.

5. SHAREHOLDING REQUIREMENT

- 5.1 The Purchaser shall maintain its equity shareholding, as mentioned in Clause 4.1, in the Company throughout the Initial Term and Extended Term of the PPA, unless the shareholding is transferred by the Purchaser or the Company in accordance with the provisions of the SPSHA. The Purchaser shall not be subjected to any liability of any nature as long as the Purchaser retains its shareholding as per provisions in the SPSHA. Notwithstanding above, subject to the Purchaser giving a notice by 30th September of the ongoing /prevailing financial year, the Purchaser reserves the right to seek adjustment of the equity shareholding of the Purchaser in the Company for up to **Three (3) times** when the power consumption goes below **70% (Seventy Percent)** of the Annual Contracted Quantity, during the currency of the PPA, to fulfil the Group Captive User norms stipulated under the prevailing Electricity Laws without any liability, including but not limited to statutory liabilities etc., to the account of the Purchaser.
- 5.2 Provided that, the Purchaser shall not be eligible to reduce the power consumption below **51% (Fifty One percent)** of the Annual Contracted Quantity in any of the **Three (3) years** in the aforesaid paragraph.
- 5.3 Notwithstanding Purchaser's right of reduction of purchase of power from the Company, the Purchaser's obligation under the Clause 8.6 shall continue.

6. UNDERTAKING

Subject to fulfilment of obligations by the Purchaser as provided in this PPA, the Company undertakes to do the following:



- 6.1 To obtain all necessary Consents, Clearances and Permits from appropriate commission for wheeling of electricity to the Purchaser under the captive group policy as regulated by APERC, APTRANSCO and DISCOM through their orders.
- 6.2 To ensure that the minimum of 26% (Twenty-six Percent) of shareholding is held by all the Captive Users and minimum 51% (Fifty-One Percent) power is supplied to the Captive Users so as to ensure group captive status. In this context, if any existing group captive consumer surrenders their equity shares to opt out as group captive consumers, Company shall take all necessary steps to locate any other consumer to allot shares to him to ensure continuance of group captive status. If for any other reason, Company could not locate any other consumer as stated above, Company shall offer those shares to the existing Captive Users for them to subscribe for shares and maintain group captive status.
- 6.3 To supply Annual Contracted Quantity to the Purchaser as per the Agreement.

The Company further undertakes to discharge the following obligations:

- 6.4 To ensure adherence to all the responsibilities and obligations imposed by DISCOM under the Wheeling Agreement.
- 6.5 For proper maintenance of the Project in accordance with the established Prudent Utility Practices
- 6.6 To furnish the generation and maintenance schedules and the performance details of the Project to the Purchaser on monthly basis
- 6.7 For obtaining necessary approvals, permits or licences for operation of the Project and sale of energy under the provisions of the Applicable laws.
- 6.8 Allow Purchaser and authorised representatives of the Purchaser to visit the Project site at any point of time without any restriction, subject to prior notice to the Company.
- 6.9 To supply the Contracted Capacity only from the Project site to the Purchaser.

7. POWER DELIVERY

- 7.1 The Company shall be deemed to be in control of the energy from the Project up to the Delivery Point and would be deemed to have delivered the energy to the Purchaser once it is recorded in the Metering System of the Purchaser, subject to Applicable Law, Scheduled Outages, Maintenance Outages, Grid Outages, Prudent Utility Practices, timely performance of obligations of the Purchaser, and compliance by APTRANSCO/DISCOM Licensee of the obligations under respective agreements, Change in Law, Force Majeure, the Company shall supply the Contracted Quantity to Purchaser at the Delivery Point as set out in detail herein. The title and risk of the energy shall transfer from the Company to the Purchaser at the Delivery Point.



- 7.2 All Parties will be responsible to comply with relevant laws, codes, regulations for the Generation Point or Delivery Point(s) including providing timely reports or forecasts as may be required by statutory authorities or licensees.
- 7.3 Subject to Clause 8.3, the Parties may mutually agree on any additional supply of power to the Purchaser, over and above the Contracted Quantity in accordance with Applicable Laws.
- 7.4 **Environmental Credit:** To the extent not prohibited by Applicable Law, any current and/or future Environmental Credit that is attributable to and/or based upon the amount of the power delivered to the Purchaser shall belong to and/or become the property of the Purchaser. The Company shall use its commercially reasonable efforts to ensure that such portion of such Environmental Credits are vested in the Purchaser, and shall execute all documents, including, but not limited to, documents transferring such portion of such Environmental Credits, without further compensation.

8. POWER CONSUMPTION

- 8.1 The Company will dedicate **15 [Fifteen] MWs** of production capacity for the Purchaser and shall provide the entire power produced from the **15 MW** portion of the Project which will be termed "**Contracted Capacity**" of **25 (Twenty-five point Five) MW**. The Purchaser will dedicate **5 [Five] MW** (equivalent consumption capacity of the Purchaser) at its end and will provide priority letter to the DISCOM confirming that the energy supplied by the Company will be settled on the highest priority post the settlement of minimum obligation energy units, if any, to the DISCOM. The Purchaser shall provide to the Company a monthly forecast, to the best of its knowledge of quantum of power and scheduling of consumption, as is reasonably required by the Company to arrange for supply and wheeling of power through the APTRANSCO/DISCOM. Notwithstanding that if any future additional capacity is installed by the company, the first priority will be given to purchaser for the purchase of additional quantum of power on mutually agreed basis.
- 8.2 The Purchaser will be responsible to comply with relevant laws, codes, regulations for the Delivery Point(s) including providing timely reports or forecasts as may be required by statutory authorities or licensees. The Company shall comply with all the relevant laws, codes, regulations in relation with the production of the power and its transmission to the Delivery Point.
- 8.3 The Purchaser shall ensure that the energy delivered is consumed at the Delivery Point and not to divert out of the Port's premises any part of the energy supplied by the Company in any manner whatsoever.
- 8.4 It is agreed by the Purchaser that it shall ensure that the power supplied by the Company shall be accorded the first priority and precedence post to the settlement for the Minimum Obligation Energy Units to DISCOM, in terms of consumption and payment, over any other supplier of



power, including distribution licences as well as its own generation, if any. Within Seven (7) days of signing of the Agreement the Purchaser will issue an irrevocable letter instructing the DISCOM settle this power on a first priority, but after meeting the line minimum requirements of the DISCOM, if any.

- 8.5 Save as otherwise provided under this Agreement, the Purchaser shall during the tenure of this PPA, maintain its shareholding as mentioned in Clause 4.1, in proportion of the Contracted Capacity, from the Project to meet the requirements of the Electricity Laws and all Applicable Laws. In the event the Purchaser commits any breach of the terms of this PPA, including Clause 15.2(g), the Company shall, notwithstanding other rights available to it under this PPA or in Applicable Law, in order to ensure that the instant arrangement among the Parties is not diluted i.e. the status of 'Captive Generating Plant' per the Electricity Laws for the Project, remains valid continuously throughout the term of this PPA, have the sole right to perform all deeds after giving Thirty (30) days of time period to the Purchaser to rectify such breach of terms, including but not limited to subscribing to identifying a third party to subscribe to: (i) transfer the existing shares held by the Purchaser to such third party; and/or (ii) require the said third party to subscribe or purchase additional equity shares of the Company and consume additional electricity generated in the Project, in the manner determined by the Company.
- 8.6 Notwithstanding anything written in this agreement, including on account of Force Majeure or unforeseen outages, the Company shall supply, and the Purchaser is required to consume at least entire **85% (Eighty Five Percent)** of the Annual Contracted Quantity. If the Company fails to supply **85% (Eighty Five Percent)** of the Annual Contracted Quantity of Thirty-six (36) Million Units, then the Company shall pay the savings, which is the difference between prevailing SEB/APSPDCL tariff and the agreed Purchase Price under this PPA, to the Purchaser for the short fall units and if the Purchaser fails to consume **85% (Eighty Five Percent)** of the Annual Contracted Quantity, then the Purchaser shall pay the applicable Purchase Price under this PPA for the short fall units. Further the Company shall reimburse the payment received for such lapsed units from APTRANSCO within Seven (7) days of such receipt.

9. PURCHASE PRICE

- 9.1 The Purchaser shall pay a tariff of **INR 5.75 (Indian Rupees Five and Seventy five Paise only, Including rebate of Rs. 0.15 per Kwh)** per unit ("**Purchase Price**") to the Company for the power delivered at the Delivery Point throughout the term of the PPA. In the event of difference between the Purchase Price and the DISCOM tariff applicable electricity consumption by Purchaser for commercial HT 2 category is less than **Rs.0.50 (Fifty Paise only)** at any time during the Term of this PPA, the Purchase Price for such period shall be reduced so as to maintain a minimum difference of **Rs. 0.50 (Fifty Paise only)** paise between Purchase Price and the applicable DISCOM tariff. Further if the Purchase Price goes down by more than **Rs. 0.50 (Fifty Paise only)** paise on account of this clause, then in such case both the parties agree to renegotiate to arrive at an acceptable Purchase Price, failing which, either



of the parties shall have a right to terminate this PPA without any financial/commercial penalty/liabilities against each other.

- 9.2 The demand charges payable by the Purchaser to the DISCOM would be shared by the Company in proportion to the energy supplied by the Company as attributed and permitted by the APERC and APSPDCL. Any benefit on account of TOD tariff shall be shared in 80: 20 ratio between the Company and the Purchaser respectively.
- 9.3 The Periodical FSA ('Fuel Surcharge Adjustment') charges levied by DISCOM on the power delivered by the Company shall be to the account of the Company.
- 9.4 **Electricity Duty:** In case the statutory electricity duty pertaining to green energy is levied on the power procured by purchaser from the company, such electricity duty shall be borne in the ratio 60:40 i.e. 60% by the Company and 40% by the Purchaser and is applicable exclusively to this PPA.
- 9.5 The Purchaser agrees that in the event the Project ceases to be treated as 'Captive Generating Plant' on account of the Purchaser's event of default leading to its power consumption goes below **70% (Seventy Percent)** of the Annual Contracted Quantity (except in case of force majeure), the Purchaser shall pay any additional charges or penalties levied on the Purchaser by the statutory body, including without limitation, any cross subsidy charges, wheeling and banking charges, reactive energy charges, grid support charges, back-up charges, unscheduled interchange charges, as may be imposed by the GoAP or any Governmental Instrumentality for the default of the Purchaser, or reimburse such costs or charges incurred by the Company on the account of the Purchaser's power consumption goes below **70% (Seventy Percent)** of the Annual Contracted Quantity (except in case of force majeure). In all other events, if the Company and/or Other Users fails to comply the norms/requirements for 'Captive Generating Plant, all the costs and liabilities including, but not limited to, cross subsidy charges, wheeling and banking charges reactive energy charge, grid support charges, back-up charges, unscheduled interchange charges, as may be imposed by the GoAP or any Governmental Instrumentality, shall be to the sole account of the Company.
- 9.6 In the event the sourcing of the power is shifted from the existing facility of the project to an alternative source of power for a period less than **One (1) year**, the Company shall obtain prior written consent of the Purchaser, which shall not be unreasonably withheld for such transfer and the tariff shall remain the same as agreed under this PPA
- 9.7 In the event the sourcing of power is shifted from the existing facility of the Project to an alternative source of power for a period more than **One (1) year**, the Company shall obtain prior consent of the Purchaser, which shall not be unreasonably withheld for such transfer.
- 9.8 Upon occurrence of any of the events under the Clauses 9.6 or 9.7, the tariff, including the transition periods, shall not be more than the Purchase Price agreed under this Agreement.



9.9 In case the cross-subsidy surcharge ("CSS") is levied by DISCOM in the electricity bill of the Purchaser; the Purchaser may withhold such payments to the Company. Further, the Purchaser shall pay to the Company any CSS withheld by the Purchaser on receipt of GCP compliance confirmation from the DISCOM or SAO CSS reversal letter (i.e. no CSS in the electricity bill) within a period of Twenty-one (21) days of receipt of such confirmation. In such case no Bank Guarantee would be required for release of CSS payment by the Purchaser to the Company. In the event the Company requires the Purchaser to pay the CSS to the Company without the aforementioned letter from DISCOM or SAO CSS reversal letter and the Purchaser has not paid such CSS to the DISCOM; the Company or its Group company shall provide irrevocable Bank Guarantee with mutual agreed terms to Purchaser and the Purchaser shall reimburse the CSS equal to Bank Guarantee simultaneously. The Purchaser shall return said Bank Guarantees to the Company or its Group company immediately on receipt of GCP compliance confirmation from the DISCOM or SAO CSS reversal letter. In case at any point in time, DISCOM requires the Purchaser to pay the CSS; the Purchaser shall provide a Ten (10) days' notice to Company to pay the same; and in case the Company fails to make such payment; the Purchaser shall either withhold payment from the immediately due amount or encash the bank guarantee of an equivalent amount required for payment of CSS.

10. LEVIES, TAXES, DUTIES, CESS ETC.

10.1 Any statutory taxes, levies, duties, demand, fees, costs, charges, rent, cess or any other kind of imposition(s) whatsoever imposed/charged by a Government Instrumentality (Taxes and Duties) in relation to supply of power to the Purchaser and/or use of electricity by the Purchaser, shall be borne by the Purchaser. For the benefit of clarity, above includes any prior period recovery charges/cess which Distribution Licensee/APTRANSCO may impose on the consumption of electricity by the Purchaser.

10.2 Any statutory taxes, levy, duties, demand, fees, costs, charges, rent, cess or any other kind of imposition(s) whatsoever imposed/charged by a Government Instrumentality (Taxes and Duties) in relation to the generation of power/ electricity at the Project shall be to the account of the Company.

11. TRANSMISSION AND WHEELING OF POWER

11.1 The Company shall enter into wheeling and banking arrangement with the transmission and/or distribution licensee for transmission and wheeling of power contracted from the Project to the Delivery Point and the Purchaser shall provide all assistance to the Company in procuring the requisite consents/NOCs for the same.

11.2 The Transmission Charges, Wheeling Charges and the Banking Charges for wheeling and banking of power shall be paid and borne by the Company to the Distribution Licensee/APTRANSCO.

11.3 The Company shall be responsible for cost of Open Access, provided the Purchaser has supported in obtaining metering clearance and no-dues clearance from the DISCOM.



11.4 Any additional legal/regulatory charges arising out of structuring of the 'Captive Ownership of the Project shall be to the account of the Company.

12. MEASUREMENT OF ENERGY

12.1 Installation of Energy Meters

All Parties agree to comply with the relevant codes for the installation of Metering System as required for customers and Company's for availing open access.

12.2 Reading and Correction of Meters

- (a) The responsibility of having the meters in good maintenance and to be read regularly would be on either Party for their respective installation.
- (b) The Purchaser agrees to share the meter data with Company on a regular basis.

13. BILLING, PAYMENT PROCEDURE AND PAYMENT SECURITY MECHANISM

13.1 Billing and Payment Procedure

- (a) A monthly invoice containing the quantity of electricity supplied to the Purchaser at the Delivery Point along with relevant forms evidencing such electricity supplied and at the rate of applicable Purchase Price shall be submitted by the Company to the Purchaser by way of hard copy of the invoice,
- (b) The Purchaser shall make payment of the amounts due within a period of Twenty- one (21) days of receipt of such invoices from the Company ("Due Date of Payment") by way of RTGS/NEFT only to the designated TRA Account as intimated by the Company by email to the Purchaser. In case the Purchaser makes the full invoice payment by or before the Due Date of Payment, the Purchaser shall be entitled to a prompt payment discount of Rs. 0.15 (Fifteen Paise only) per unit.
- (c) The Purchaser agrees to provide any information / document including letter to the lender(s), duly notified to the Purchaser by the Company, regarding payment of invoices into Trust and Retention Account as may be required by the lender to the Project from time to time.

13.2 Payment Delay or Default

- (a) Late payments, after Due Date of Payment, shall carry, for the period of delay, interest at 14% (Fourteen Percent) per annum, calculated for the period of delay expressed in number of days on the unpaid amount of the invoice, till the recovery of all dues including interest on delayed payment. Any payment received shall be appropriated in the following priority (a) earlier unpaid monthly invoices, (b) current monthly invoice; and (c) late payment surcharge



- (b) In case payment is not effected within Forty-five (45) days of Due Date of Payment, the Purchaser shall be given further time of Fifteen (15) days to rectify the delay in payments. On failing to rectify the delay by the Purchaser, the Company will have the right to summarily discontinue and disconnect the supply forthwith till the payment is made.

14. NOTICE

- 14.1 Any communication to be made by one Party to the other Party under this PPA shall be validly made when delivered in writing by hand or through fax or by registered mail (with acknowledgement of receipt). The communication shall be considered as effective at the date of acknowledgement of receipt.

- 14.2 The communication should be addressed as below:

Company:

Attn: Mr. Kaushik Raju

Address: Atria Wind Power Private Limited 1st Floor, 11 Commissariat Road, Karnataka 560025

Tel: 080-49411411

Fax: 080-49411499

Mail Id: legal@atriapower.com

Purchaser:

Attn: S.G Nageswara Rao

M/s. Adani Krishnapatnam Port Ltd

Address: P.O. Bag No.1 Muthukur Mandal SPSR Nellore District 524344

Tel: +91-9937243307

Mail 1: Lakshmana.rao@adani.com

Mail 2: S.Nageswararao@adani.com

- 14.3 The Parties may by notice, change the address and/or addresses to which such communications are to be delivered or mailed.

15. EVENTS OF DEFAULT

15.1 Company Events of Default

The occurrence, other than due to a Force Majeure, Grid Outage, or Purchaser's Event of Default, and continuation of any of the following events shall constitute a Company's events of default ("Company Event of Default"):

- (a) The Company fails to supply at least 85% (Eighty five Percent) of Annual Contracted Quantity to the Delivery Point for a period of two (2) consecutive years other than due to a Force Majeure, Grid Outage, abnormal or extreme weather conditions or Purchaser Event of Default;
- (b) Bankruptcy, liquidation or dissolution of Company pursuant to Applicable Law, except for the purpose of a merger, consolidation or reorganisation that does not affect the ability of the resulting entity to perform all its obligations under this PPA and provided that such resulting entity assumes all such obligations; and



- (c) Material breach of any other obligation under this PPA by Company and failure to rectify such breach within a period of 30 (thirty) days from notice from the Purchaser.
- (d) The Company assigns or purports to assign/transfers its rights and/or its obligations under this PPA without the prior consent of Purchaser;
- (e) Breach of any of the provisions of the SPSHA or any other agreement executed among the Parties;

15.2 Purchaser Event of Default

The occurrence, other than due to a Force Majeure, Grid Outage, abnormal or extreme weather conditions or Company's Event of Default, and continuation of any of the following events shall constitute Purchaser' event of default (Purchaser Event of Default):

- (a) Any one of the two events whichever occurs earlier: (i) The Purchaser fails to consume 85% (Eighty five Percent) of the Annual Contracted Quantity at the Delivery Point for a period of two (2) consecutive years; (ii) the Purchaser fails to consume any energy for the period of three (3) consecutive months
- (b) Material breach of any of the provisions of this PPA by Purchaser and failure to rectify such breach within a period of 30 (thirty) days from notice from Company;
- (c) Bankruptcy, liquidation or dissolution of Purchaser pursuant to Applicable Law, except for the purpose of a merger, consolidation or reorganisation that does not affect the ability of the resulting entity to perform all its obligations under this PPA and provided that such resulting entity expressly assumes all such obligations;
- (d) The Purchaser assigns or purports to assign/transfers its rights and/or its obligations under this PPA without the prior consent of Company;
- (e) Failure to maintain equity shareholding in Company, as mentioned in Clause 4.1;
- (f) Transfer or attempt to transfer by the Purchaser of its shareholding in Company in contravention of the SPSHA;
- (g) Breach of any of the provisions of the SPSHA or any other agreement executed among the Parties; or
- (h) Breach of Clause 8.3 above.

15.3 Notice of Default

- (i) Upon the occurrence of either Party's events of default, Company or Purchaser, as the case may be, shall deliver a notice to the defaulting Party ("Notice of Default") which shall specify in reasonable detail the event of default leading to serving of Notice of Default to that Party.



- (ii) The defaulting Party shall be entitled to get a cure period of (Thirty (30) days from the date on which the Notice of Default is served on the defaulting Party.

16. TERMINATION

- 16.1 Neither Party has a right to terminate the PPA during the Initial Term of the PPA for the reasons of convenience. In case of Termination of this Agreement during the Initial Term by Purchaser, due to Company event of default as per Clause 15.1, or by Company for any reason, the Company shall compensate Purchaser for an amount equivalent to savings (applicable DISCOM Tariff –Purchase Price at the time of Termination) multiplied by 85% (Eighty five Percent) of Annual Contracted Quantity plus the refund of the Investment Amount as per the SPSHA.
- 16.2 In case of Termination of this Agreement during the Initial Term of PPA by the Company, due to Purchaser event of default as per Clause 15.2, or by the Purchaser for any reason, the Purchaser shall compensate Company for an amount equivalent to applicable Purchase Price multiplied by 85% (Eighty five Percent) of Annual Contracted Quantity less refund of the Investment Amount as per the SPSHA. On the expiry of the cure period as provided in Clause 15.3(ii) and unless otherwise agreed between the Parties, if the event of default is not remedied within such specified period, the non-defaulting Party may serve a termination notice to forthwith terminate the PPA (Notice of Termination).
- 16.3 The Company upon the serving of the Notice of Termination shall have the right to enter into agreements to sell any portion of the Annual Contracted Quantity to any third party and sell the shares of the Purchaser as per the terms agreed under the SPSHA. The Purchaser upon the serving of the Notice of Termination shall have the right to revoke the 'Priority Letter' issued to the DISCOM, and the Purchaser shall be at liberty to issue such Priority Letter in favour of any Third Party upon such termination.
- 16.4 Termination of this PPA shall be without prejudice to the accrued rights and liabilities of the Parties as on the date of termination, unless waived in writing by the Parties.
- 16.5 Termination of this PPA with respect to the Purchaser shall deem to be an immediate and automatic termination of the SPSHA.
- 16.6 In the event of any significant regulatory changes and/or penalties being levied on either Parties due to this transaction or there being difficulty in implementation, which is beyond the control of the parties, either of the Parties will have an option to terminate the contract by serving an Three (3) months advance termination notice to the other party. In such case of termination,



the Purchaser shall continue to off-take the power and pay till the end of the billing cycle for that particular month.

17. REPRESENTATIONS AND WARRANTIES

17.1 The Company represents and warrants to Purchaser that:

- (a) it has the power to execute, deliver and perform the terms and provisions of this PPA and has taken all necessary actions to authorize the execution, delivery and performance by it of this PPA;
- (b) it has duly executed and delivered this PPA and this PPA constitutes its legally valid and binding obligation enforceable in accordance with its terms;
- (c) neither the execution, delivery or performance by Company of this PPA, nor compliance by it with the terms and provisions hereof will:
 - (i) contravene any material provision of any law, statute, rule or regulation or any order, writ, injunction or decree of any court or governmental authority; or
 - (ii) conflict or be inconsistent with or result in any breach of any of the material terms, covenants, conditions or provisions of, or constitute a default under any agreement, contract or instrument to which Company is a party or by which it or any of its properties or assets are bound; or
 - (iii) violate any provision of Company's constituent documents;
- (d) no order, consent, approval, license, authorisation or validation of, or filing, recording or registration with or exemption by, any governmental or public body or authority, or any subdivision thereof, is required to authorise, or is required in connection with, the execution, delivery and performance of this PPA.

17.2 The Purchaser represents and warrants to Company that:

- (a) it has the power to execute, deliver and perform the terms and provisions of this PPA and has taken all necessary actions to authorize the execution, delivery and performance by it of this PPA;
- (b) it has duly executed and delivered this PPA and this PPA constitutes its legally valid and binding obligation enforceable in accordance with its terms;
- (c) neither the execution, delivery or performance by the Purchaser of this PPA, nor compliance by it with the terms and provisions hereof will:
 - (i) contravene any material provision of any law, statute, rule or regulation or any order, writ, injunction or decree of any court or governmental authority; or



- (ii) conflict or be inconsistent with or result in any breach of any of the material terms, covenants, conditions or provisions of, or constitute a default under any agreement, contract or instrument to which Purchaser is a party or by which it or any of its properties or assets are bound; or
 - (iii) violate any provision of the Purchaser' constituent documents;
 - (iv) it does not have arrears of payment / dues towards APTRANSCO, DISCOM or any other distribution licensee;
- (d) no order, consent, approval, license, authorisation or validation of, or filing, recording or registration with or exemption by, any governmental or public body or authority, or any subdivision thereof, is required to authorise, or is required in connection with, the execution, delivery and performance of this PPA.

18. CHANGE IN LAW

- 18.1 In the event of a Change in Law, the Parties shall mutually discuss and take all steps that may be reasonable required to comply with such Change in Law, including extension of time, compensation for additional taxes and costs, decrease in power generation. In the event of any significant regulatory or penalties being levied on either parties due to this transaction or there being difficulty in implementation, which is beyond the control of the parties, then either of the parties will have an option to terminate the Agreement by serving **Three (3)** months advance termination notice to the party, however the Purchaser shall continue to off-take the power and pay till the end of the billing cycle for that particular month

19. FORCE MAJEURE

- 19.1 In the event a Party is rendered unable to perform any obligations required to be performed by it under this PPA by force majeure, the particular obligations so affected shall, upon notification to the other Party, be suspended for the period of force majeure and Annual Contracted Quantity shall also be reduced proportionately.
- 19.2 For the purpose of this Clause 19, force majeure shall mean any event or circumstances or combination of events or circumstances that wholly or partly prevents or unavoidably delays any Party in the performance of its obligations under this PPA, but only if and to the extent that such events and circumstances are not within the reasonable control, directly or indirectly, of the affected Party and could not have been avoided even if the affected Party had taken reasonable care. Such events may include acts of God, acts of the Government Instrumentality, Acts of the APTRANSCO or DISCOM, epidemic, pandemic, plague, radioactive contamination, strikes, sabotage, civil unrest, war, enemy action, quarantine restrictions, floods, abnormal or extreme weather conditions, terrorists act and fire to the extent they, or their consequences, satisfying the above requirements. Provided that a Force Majeure shall not



include the inability of a Party to perform its obligations in this Agreement on account of mere economic hardships suffered by such Party.

- 19.3 Upon the occurrence of an event of force majeure, the Party claiming that, it has been rendered unable to perform any of its material obligations under this PPA, shall notify the other Party in writing within 7 days of the commencement thereof giving the particulars and satisfactory evidence in support of its claim. Upon termination of such event of force majeure, the affected Party shall within Twenty-four (24) hours of its termination, intimate the other Party of such termination.
- 19.4 Time for performance of the relative obligations suspended by force majeure shall then stand extended by the period of delay, which is directly attributable to force majeure. The Party giving such notice shall be excused from timely performance of its obligations under this PPA, for so long as the relevant event of force majeure continues and to the extent that such Party's performance is prevented, hindered or delayed, provided the Party or Parties affected by the event of force majeure shall use reasonable efforts to mitigate the effect thereof upon its performance of the obligations under this PPA. The obligation by a Party to pay any undisputed amount which is due to shall continue even during the occurrence of force majeure event and not be excused by the same.
- 19.5 In the case of force majeure, it is the duty of the effected Party to make reasonable efforts to reduce the impact of the force majeure on this contract. If despite making reasonable efforts it is foreseeable that this contract obligation will remain suspended for a prolonged period or force majeure remains in effect for more than 3 months then the non-affected Party has the right to terminate the contract and exit the contract without any penalty.
- 19.6 Notwithstanding anything contained in this PPA, no event shall suspend the Purchaser obligation to make payments. Either Party shall be free to make arrangements to mitigate the loss incurred by them during the force majeure period including the right to sell and procure power till the obligations of the other Party are suspended.

20. INDEMNITY

- 20.1 Either of the Parties hereby irrevocably and unconditionally agrees to indemnify and hold the other Party and its affiliates, officers, directors, employees, agents and authorised representatives (each being an Indemnified Party) harmless from and against any and all liabilities, losses, damages, costs, claims, actions, proceedings, judgements, settlements, expenses, penalty or the like (collectively the Losses) which may be suffered or incurred directly by the Indemnified Parties in this PPA or SPSHA or any other agreement executed among the Parties or any two or more of them or non-fulfilment of or failure to perform any covenant or obligation or agreement or undertaking contained in this PPA, the SPSHA or any other agreement executed among the Parties or any two or more of them by either of the Parties.



21. STATUTORY OBLIGATIONS

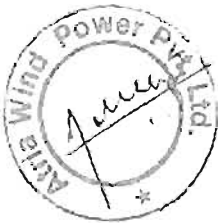
- 21.1 All statutory permission/consents/approvals required to be obtained from the Government, local bodies and/or any of the statutory body under all or any law applicable, from time to time, during the currency of this agreement, relating to the production and transmission of power shall be obtained by the Company entirely at its own cost and risk. The Purchaser shall, in no way, be responsible to obtain any of such statutory permissions/licenses/approvals for the Company. The Company shall provide all the documents/requisite permissions/details well in advance for processing necessary permissions on the Purchaser's end.

22. GOVERNING LAW AND JURISDICTION

- 22.1 This PPA shall be governed by, interpreted and construed in accordance with the laws of India. Subject to the provisions of Clause 23, the courts of Vijayawada, Andhra Pradesh, shall have exclusive jurisdiction in relation to all matters arising out of this PPA.

23. ARBITRATION

- 23.1 The Parties shall endeavour to settle any Dispute arising in connection with the interpretation, performance, termination of this PPA, or otherwise in connection with this PPA through amicable discussions and negotiations. If no settlement can be reached through the discussions or negotiations within 30 (thirty) working days of the Dispute, either Party may, by delivering a notice of the Dispute to the other Party, refer such matter to be settled by arbitration. This PPA and the rights and obligations of the Parties shall remain in full force and effect pending the award in such arbitration proceeding.
- 23.2 The seat of the arbitration shall be Vijayawada, Andhra Pradesh and it shall be conducted in accordance with the Arbitration Act.
- 23.3 The arbitration shall be conducted by a panel of three arbitrators ("Tribunal") one to be appointed by the claimant (or claimants jointly, if more than one) and one to be appointed by the respondent (or respondents jointly, if more than one) and the third arbitrator to be jointly



appointed by the two arbitrators so appointed and failing any agreement between the two arbitrators, the third arbitrator to be appointed in accordance with the Arbitration Act.

23.4 The language of the arbitration shall be English.

23.5 The award rendered by the Tribunal shall be in writing and shall set out the reasons for the Tribunal's decision. The award shall allocate or apportion the costs of the arbitration as the arbitrator deems fair.

23.6 The Tribunal shall also be entitled to grant interim award, injunction and specific performance if it considers such remedy appropriate.

23.7 The Parties agree that the arbitration award shall be final and conclusive and binding on them.

24. MISCELLANEOUS

24.1 Good Faith

(a) This PPA has been entered into by the Parties in good faith and each Party shall refrain from any act which could damage any lawful rights and interests of the other Party.

(b) The Parties shall with reasonable diligence do all such things and provide all such reasonable assurances as may be required to consummate the transaction hereby contemplated, and each Party shall provide such further documents or instruments required by any other Party as may be reasonably necessary or desirable to effect the purpose of this PPA and carry out its provisions.

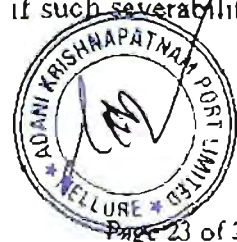
24.2 No Partnership or Agency

Nothing contained or implied in this PPA shall constitute or be deemed to constitute a partnership or agency between the Parties hereto and none of the Parties hereto will have any authority to bind, commit or make any representations on behalf of any of the other parties hereto.

24.3 Waiver and Severability

(a) Any failure or delay on the part of any Party to exercise any right under this PPA shall not operate as a waiver thereof; nor shall a single or partial exercise of any right preclude any other future exercise thereof.

(b) If any provision of this PPA shall be determined to be invalid or unenforceable under applicable laws, all other provisions of this PPA shall continue in full force and effect unless such invalidity or unenforceability adversely affects the underlying intent of this PPA or unless the invalid or unenforceable provision comprises an integral part of, or is inseparable from the remainder of this PPA. Provided, however, that if such severability



materially changes the economic benefits of this PPA to any Party, the Parties shall negotiate an equitable adjustment in the provisions of this PPA in good faith.

24.4 Authority of Parties/Signatories

Each person signing this Agreement represents and warrants that he/she is duly authorized and has legal capacity to execute and deliver this Agreement. Each Party represents and warrants to the other Party that the execution and delivery of the Agreement and the performance of such Party's obligations hereunder have been duly authorized and that the Agreement is a valid and legal agreement binding on such Party and enforceable in accordance with its terms.

24.5 Amendment

No amendment to this PPA will be effective unless it is in writing and signed by each of the Parties.

24.6 Confidentiality

- (a) The Parties shall, on a confidential basis, at all times forthwith provide to each other such information as is available and is necessary or useful to enable the other Party to perform its obligations under this PPA.
- (b) The Parties hereto will cause their directors, officers, employees, servants, agents and contractors to be similarly bound by the covenants specified in sub-clauses (a) and (b). Each Party will keep this agreement strictly confidential and not divulge to any third party without consent of the other Party any information about existence or terms of this PPA.
- (c) Either Party may, however, use or disclose confidential information, subject to prior consent from the other Party, to its nominees, investment bankers, lenders, accountants, legal counsels and bona-fide prospective investors and lenders provided such persons or entities are under appropriate non-disclosure obligations. In the event any disclosure is required to be made by either Party under Applicable Law, upon reasonable request by the non-disclosing party, the disclosing Party shall, upon reasonable request by the non-disclosing Party, use all reasonable efforts and cooperate with other Party's efforts to obtain confidential treatment of the information so disclosed.

24.7 Successors and Assigns

- (a) Except as specifically contemplated and permitted in this PPA, no rights, liabilities or obligations under this PPA shall be assigned by the Parties without the prior written consent of the other Party. The provisions of this PPA shall inure to the benefit of, and shall be binding upon, the successors and permitted assigns of the Parties hereto;
- (b) The Parties hereby agree that, the Company may assign/transfer any of its rights and obligations under this Agreement in favour of lenders/financing institutions with prior written notice to the



Purchaser for the purposes of construction, development, investment, operation, financing, maintenance and operation of the Project.

24.8 Counterparts

This PPA may be executed in one or more counterparts, and by the Parties on separate counterparts, but shall not be effective until each Party has executed at least one counterpart and each such counterpart shall constitute an original of this PPA but all the counterparts shall together constitute one and the same instrument.

24.9 Survival

Cancellation, expiration or earlier termination of this PPA shall not relieve the Parties of obligations that by their nature should survive such cancellation, expiration or termination, including warranties, remedies and confidentiality, provided, however, that all obligations surviving the cancellation or early termination of this PPA shall only survive for a period of 10 years.

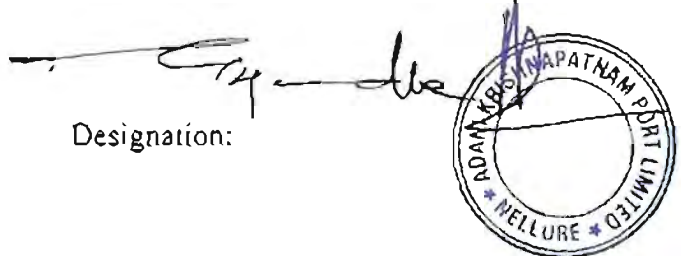
IN WITNESS, therefore, the Parties hereto have executed and delivered this PPA on the date first written above.

For On Behalf of the Company
ATRIA WIND POWER PRIVATE LIMITED



Designation:

For On Behalf of the Purchaser
ADANI KRISHNAPATNAM PORT LIMITED



Designation:

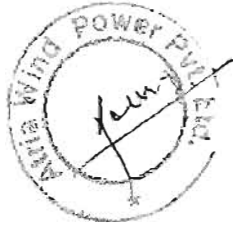
Witness

1.

2.

SCHEDULE I
ANNUAL CONTRACTED QUANTITY

1. Units (kWh)
(a) Annual Contracted Quantity: **36 Million** units per annum.
2. Load (MW) at the Purchaser's End: **5 MWs**
3. Load (MW) at the Company's End: **15 MWs**
4. Value of Shares to be held by the Purchaser: Maximum of INR 7,19,99,958 (Indian Rupees Seven crore nineteen lakh ninety nine thousand nine fifty eight only), which will be revised downwards, if captive consumer shareholding exceeds 26% (Twenty-six Percent).



To,
The Shipping Agents,
Adani Krishnapatnam Port Ltd,

Subject: Corrigendum to DGS Circular No. 02 of 2019 – Compliance with the provisions of MARPOL Annex VI, Regulation 14

Dear Sirs,

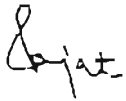
Adani Krishnapatnam Port Ltd. has always been a trusted partner to all stakeholders, and we value the deep-rooted partnership with all valued customers.

"Vessel which are calling to Krishnapatnam port must be compliance with the provisions of MARPOL annex VI, regulation 14, as per DG shipping circular no. 02 of 2023 which was issued on 31-01-2023"

Attached DG Shipping circular.

Above is for your information and further circulation

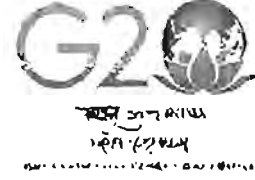
For Adani Krishnapatnam Port Ltd.



Capt. Rajat Garg
HOD - Marine Services
CC: CEO Sir desk



भारत सरकार / GOVERNMENT OF INDIA
पत्तन, पोत परिवहन और जलमार्ग मंत्रालय
MINISTRY OF PORTS, SHIPPING AND WATERWAYS



नौवहन महानिदेशालय, मुंबई
DIRECTORATE GENERAL OF SHIPPING, MUMBAI

DGS Circular No 02 of 2023

File No. 13-20011/3/2020-ENGG-DGS (C-3205)	Date: 31.01.2023
Sub: Corrigendum to DGS Circular No. 02 of 2019 – Compliance with the provisions of MARPOL Annex VI, Regulation 14	
<ol style="list-style-type: none">1. Recognizing that in October 2008, the Marine Environment Protection Committee (MEPC) of the International Maritime Organization (IMO) adopted revisions to the international regulations for the prevention of air pollution from ships (MARPOL Annex VI).2. Noting that the revised regulations included a requirement that, from 1 January 2020, the sulphur content of fuel oil used by ships operating outside designated emission control areas shall not exceed 0.50% by mass, known as "IMO 2020".3. Noting that ships can comply with above regulations related to a cap of maximum sulphur on fuel used on board ships by one of the following ways:<ul style="list-style-type: none">• Use a compliant fuel oil with a sulphur content that does not exceed 0.50% or• use an equivalent e.g. an Exhaust Gas Cleaning System ("scrubber") if exceeding 0.50% or• Use an alternative fuel e.g. LNG, methanol.4. Recognizing that in October 2008, the Marine Environment Protection Committee (MEPC) of the International Maritime Organization (IMO) adopted revisions to the international regulations for the prevention of air pollution from ships (MARPOL Annex VI).5. Noting that the revised regulations included a requirement that, from 1 January 2020, the sulphur content of fuel oil used by ships operating outside designated emission control areas shall not exceed 0.50% by mass, known as "IMO 2020".	

१^{री} मंजिल, सीटा बिल्डींग, आई थिंक टेक्नो कॅम्पस, कांजुर गाँव रोड, कांजुरमार्ग (पूर्व), मुंबई - 400042
9th Floor, BETA Building, I-Think Techno Campus, Kanjur Village Road Kanjurmarg (E) / Mumbai - 400042
फोन/Cell: +91-22-25752040/1/2/3, फॅक्स/Fax: +91-22-25752029/35 ई-मेल/E-mail: dgship-dgc@nic.in वेबसाइट Website: www.dgshipplus.gov.in

6. Noting that ships can comply with above regulations related to a cap of maximum sulphur on fuel used on board ships by one of the following ways:
 - Use a compliant fuel oil with a sulphur content that does not exceed 0.50% or
 - use an equivalent e.g. an Exhaust Gas Cleaning System ("scrubber") If exceeding 0.50% or
 - Use an alternative fuel e.g. LNG, methanol.
7. Noting that regulation 4 of MARPOL Annex VI allows the use of an alternative compliance method provided it is at least as effective in terms of emission reductions as that required by MARPOL Annex VI, including any of the standards set forth in regulation 14 taking into account guidelines developed by the Organization.
8. Noting above, IMO adopted guidelines specifying the requirements for the testing, survey certification and verification of Exhaust Gas Cleaning System (EGCS) under regulation 4 of MARPOL Annex VI to ensure that they provide effective equivalence to the requirements of regulations 14.1 and 14.4 of MARPOL Annex VI vide Resolution MEPC. 259 (68).
9. Recognizing all the above, the Directorate on 28 August 2019 issued Engineering Circular 02 of 2019 specifying the requirements for compliance to IMO 2020. The stated circular permits usage of Exhaust Gas Cleaning System (EGCS) as an alternative means of compliance subject to certified in accordance with Resolution MEPC 259 (68) as may be amended.
10. Noting that some Indian ports are not permitting ships to berth which are complying with IMO 2020 vide alternative means of compliance, that is, EGCS and are asking them to switch over to low sulphur fuel oil prior berthing, which is not in consonance with the permitted operational requirements under MARPOL 73/78, as amended.
11. Noting any such additional requirements by the local Port authorities, prohibiting IMO (MARPOL) compliant ships (certified for alternate means of compliance to IMO 2020) from entering an Indian port or restricting port entry permissions only after a changeover to low sulphur fuel oil, shall be construed as a unilateral measure from a members state against the provisions of an International Convention that it has ratified.
12. Also noting that IMO has issued MEPC.1/Circ.899 on 2022 Guidelines for risk and impact assessments of the discharge water from exhaust gas cleaning systems. These guidelines provide methodology for risk and impact assessments that Member States

(port states) should follow when considering local or regional regulations to protect the sensitive waters/environment from the discharge water from EGCS that complies with the Convention.

13. Recognizing the said guidelines issued by IMO requires member state mandating additional requirements for ships using alternate means of compliance to IMO 2020, in any of its ports, shall undertake the risk and impact assessment in accordance with MEPC.1/Circ. 899. And further advise the member states to notify the IMO, the list of such ports where entry/berthing of ships with alternate means of compliance to IMO 2020 is prohibited, together with the notification of local regulations on the discharges of discharge water from EGCS.
14. Now therefore, the Director General of Shipping, hereby notifies the following uniform procedure to be followed by all ports in India for the compliance of IMO 2020 Sulphur cap requirements on merchant ships calling their ports:-
 - i. Any port or local authority proposing to prohibit IMO (MARPOL) compliant ships (certified for alternate means of compliance to IMO 2020) from entering their port or imposing any additional requirements, including, changeover to low sulphur fuel oil, shall submit their request in this regard to the Director General of Shipping, Govt. of India, along with the risk and impact assessment duly undertaken by the respective authority in accordance with IMO-MEPC.1/Circ. 899.
 - ii. If approved, a list of such ports where entry/berthing of ships with alternate means of compliance to IMO 2020 is prohibited shall be published on DGS web site, under intimation to the IMO and a letter issued to the respective port authority for public display and for duly alerting the ships calling their ports, in advance.
 - iii. No port in India shall prohibit or impose additional measures on ships certified for alternate means of compliance to IMO 2020, unless authorized by the competent authority as above.
15. It is also to be noted that the Directorate General of Shipping and its allied offices are conferred with powers to ensure compliance to IMO Conventions on all ships operating in the coast of India, under the ambit of Merchant Shipping Act and the Rules framed thereunder. It is therefore advised that any restriction placed on any ship by any port or local authorities in contravention of the above and thereby impede the smooth conduct

of legitimate ship operations, may be undertaken only after due consultation with the Director General of Shipping.

16. All Principal Officers and Surveyors In-Charge of Mercantile Marine Departments are hereby advised to circulate this circular to all ports in their jurisdiction and any non-compliance by any port to be reported to this Directorate immediately.
17. This is issued with the approval of the Competent Authority.

Sd/-

(Vikrant Rai)

Engineer & Ship Surveyor-cum-DDG (Tech)

To,

1. The Principal Officer Mercantile Marine Department (Mumbai/ Chennai/ Kolkata/ Kochi/ Kandla).
2. All Surveyor-in-charge, Mercantile Marine Department
3. The Indian National Ship-owners Association (INSA)
4. The Indian Coastal Conference Shipping Association (ICCSA)
5. Indian Ports Association (IPA)
6. Foreign Owners Representatives and Ship-manages Association. (FOSMA)
7. Maritime Association of Ship-owners Ship-managers and Agents (MASSA)
8. All Stakeholders/ Shipping Companies through DGS Website.
9. AD (OL) Hindi Cell with a request to translate this circular in Hindi and upload on DGS website.
10. The Computer Cell, DGS, GOI with a request to upload this circular on the official website

Copy for information to:

- Sr. PS to DG(S)
- Sr. PS to Addl. DG(S)
- Sr. PS to Chief Surveyor
- Sr. PS to Nautical Advisor (I/c)



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LIFE SHELL LABS INDIA PVT. LTD.

(The Complete Environmental Service Provider)
No. 20, Nehru Street, Maruthi Nagar, Phase I,
Iyyappanthangal, Chennai - 600077, Tamil Nadu
Tel: +91(44) 48634849, 63809 68684
Email: labs@lifeshell.in, lifeshelllabs@gmail.com
www.lifeshelllabs.com

TEST REPORT

Sample ID: 2205035	JOE: 1322	Report Date: 20.05.2022	
Customer Name	M/s. Adani Krishnapatnam Port Ltd.,		
Address	PO Bag NO: 01, Muthukur, Nellore SPSR Nellore-524344.		
Client Name	M/s. Pi Green Innovations Pvt Ltd.		
Date of Sampling	14.05.2022	Sampled by	LSL
Sample Received on	15.05.2022	Sample Description	Stack Emission
Test Commenced on	15.05.2022	Sample Mark	DG-500 KVA -1
Test Completed on	19.05.2022	Sampling Procedure	Prescribed as per Test Method
Sampling Location	NCT Area	Ambient Temp during sampling	32°C (Avg.)
Stack Diameter	0.10Meter	RH during sampling	62% (Avg.)
Serial No	PI/CCM/AP/00023	DG Number	KPCL DG No.68

DISCIPLINE		CHEMICAL TESTING				
PRODUCT GROUP		ATMOSPHERIC POLLUTION				
S. No	PARAMETERS	UNIT	TEST METHOD	RESULTS		LIMITS AS PER *APPCB
				Before CCM	After CCM	
1	Stack Temperature	K	IS 11255 (Part 3)	618	601	--
2	Flue Gas Velocity	m/s	IS 11255 (Part 3)	24.8	23.6	--
3	Flow Rate	Nm ³ /hr	IS 11255 (Part 3)	335	331	--
4	Particulate Matter (PM)	mg/Nm ³	IS 11255 (Part 1)	68.4	13.4	115
5	Sulphur dioxide (SO ₂)	mg/Nm ³	IS 11255 (Part 2)	5.82	5.40	--
6	Oxide of Nitrogen (NO _x)	mg/Nm ³	IS 11255 (Part 7)	296.4	279.8	--
7	Carbon monoxide (CO)	%	IS 13270	BDL (DL:0.2)	BDL (DL:0.2)	--
8	Carbon dioxide (CO ₂)	%	IS 13270	6.1	1.4	--
9	Oxygen (O ₂)	%	IS 13270	9.4	14.7	--

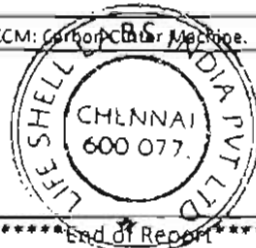
Note: BDL: Below Detectable Limit, DL: Detectable Limit.

*APPCB: ANDHRA PRADESH POLLUTION CONTROL BOARD. CCM: Carbon Content in Fuel.

Verified by

M. BALAJI

Deputy Quality Manager



*****End of Report*****

For Life Shell Labs India Pvt. Ltd.

Authorized Signatory

K. KAMALANATHAN

Deputy Technical Manager



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Certificate No.: TC-7602

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Email: labs@lifeshell.in, lifeshelllabs@gmail.com
www.lifeshelllabs.com

TEST REPORT

Sample ID: 2205036	JOE: 1322	Report Date: 20.05.2022
Customer Name	M/s. Adani Krishnapatnam Port Ltd.,	
Address	PO Bag NO: 01, Muthukur, Nellore SPSR Nellore-524344.	
Client Name	M/s. Pi Green Innovations Pvt Ltd.	
Date of Sampling	14.05.2022	Sampled by
Sample Received on	15.05.2022	Sample Description
Test Commenced on	15.05.2022	Sample Mark
Test Completed on	19.05.2022	Sampling Procedure
Sampling Location	NCT-2 Area	Ambient Temp during sampling
Stack Diameter	0.10Meter	RH during sampling
Serial No	PI/CCM/AP/00024	DG Number
		KPCL DG No.46

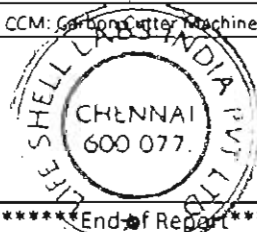
DISCIPLINE		CHEMICAL TESTING				
PRODUCT GROUP		ATMOSPHERIC POLLUTION				
S. No	PARAMETERS	UNIT	TEST METHOD	RESULTS		LIMITS AS PER *APPCB
				Before CCM	After CCM	
1	Stack Temperature	K	IS 11255 (Part 3)	576	564	--
2	Flue Gas Velocity	m/s	IS 11255 (Part 3)	21.9	21.1	--
3	Flow Rate	Nm ³ /hr	IS 11255 (Part 3)	320	317	--
4	Particulate Matter (PM)	mg/Nm ³	IS 11255 (Part 1)	66.9	12.6	115
5	Sulphur dioxide (SO ₂)	mg/Nm ³	IS 11255 (Part 2)	5.58	5.22	--
6	Oxide of Nitrogen (NO _x)	mg/Nm ³	IS 11255 (Part 7)	304.1	292.4	--
7	Carbon monoxide (CO)	%	IS 13270	BDL (DL:0.2)	BDL (DL:0.2)	--
8	Carbon dioxide (CO ₂)	%	IS 13270	8.6	1.6	--
9	Oxygen (O ₂)	%	IS 13270	10.3	14.9	--

Note: BDL: Below Detectable Limit, DL: Detectable Limit.

*APPCB: ANDHRA PRADESH POLLUTION CONTROL BOARD. CCM: Carbon Cutter Machine.

Verified by

M. BALAJI
Deputy Quality Manager



*****End of Report*****

For Life Shell Labs India Pvt. Ltd.

Authorized Signatory
K. KAMALANATHAN
Deputy Technical Manager



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Email: labs@lifeshell.in, lifeshelllabs@gmail.com
www.lifeshelllabs.com

TEST REPORT

Sample ID: 2205041	JOE: 1322	Report Date: 20.05.2022	
Customer Name	M/s. Adani Krishnapatnam Port Ltd.,		
Address	PO Bag NO: 01, Muthukur, Nellore SPSR Nellore-524344.		
Client Name	M/s. Pi Green Innovations Pvt Ltd.		
Date of Sampling	14.05.2022	Sampled by	LSL
Sample Received on	15.05.2022	Sample Description	Stack Emission
Test Commenced on	15.05.2022	Sample Mark	DG-250 KVA -3
Test Completed on	19.05.2022	Sampling Procedure	Prescribed as per Test Method
Sampling Location	Substation-2	Ambient Temp during sampling	32°C (Avg.)
Stack Diameter	0.10Meter	RH during sampling	60% (Avg.)
Serial No	PI/CCM/AP/00016	DG Number	KPCL DG No.10

DISCIPLINE		CHEMICAL TESTING				
PRODUCT GROUP		ATMOSPHERIC POLLUTION				
S. No	PARAMETERS	UNIT	TEST METHOD	RESULTS		LIMITS AS PER *APPCB
				Before CCM	After CCM	
1	Stack Temperature	K	IS 11255 (Part 3)	522	514	--
2	Flue Gas Velocity	m/s	IS 11255 (Part 3)	24.6	23.9	--
3	Flow Rate	Nm ³ /hr	IS 11255 (Part 3)	397	392	--
4	Particulate Matter (PM)	mg/Nm ³	IS 11255 (Part 1)	68.2	13.1	115
5	Sulphur dioxide (SO ₂)	mg/Nm ³	IS 11255 (Part 2)	6.15	6.05	--
6	Oxide of Nitrogen (NO _x)	mg/Nm ³	IS 11255 (Part 7)	262.9	255.8	--
7	Carbon monoxide (CO)	%	IS 13270	BDL (DL:0.2)	BDL (DL:0.2)	--
8	Carbon dioxide (CO ₂)	%	IS 13270	4.7	1.5	--
9	Oxygen (O ₂)	%	IS 13270	12.6	14.4	--

Note: BDL: Below Detectable Limit, DL: Detectable Limit.

*APPCB: ANDHRA PRADESH POLLUTION CONTROL BOARD. CCM: Carbon Capture Machine.

Verified by

M. Balaji

M. BALAJI

Deputy Quality Manager



For Life Shell Labs India Pvt. Ltd.

K. Kamalanathan

Authorized Signatory

K. KAMALANATHAN

Deputy Technical Manager

*****End of Report*****



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Email: labs@lifeshell.in, lifeshelllabs@gmail.com
www.lifeshelllabs.com

TEST REPORT

Sample ID: 2205042	JOE: 1322	Report Date: 20.05.2022	
Customer Name	M/s. Adani Krishnapatnam Port Ltd.,		
Address	PO Bag NO: 01, Muthukur, Nellore SPSR Nellore-524344.		
Client Name	M/s. Pi Green Innovations Pvt Ltd.		
Date of Sampling	14.05.2022	Sampled by	LSL
Sample Received on	15.05.2022	Sample Description	Stack Emission
Test Commenced on	15.05.2022	Sample Mark	DG-160 KVA -1
Test Completed on	19.05.2022	Sampling Procedure	Prescribed as per Test Method
Sampling Location	Substation-1	Ambient Temp during sampling	32°C (Avg.)
Stack Diameter	0.10Meter	RH during sampling	60% (Avg.)
Serial No	PI/CCM/AP/00015	DG Number	KPCL DG No.26

DISCIPLINE		CHEMICAL TESTING				
PRODUCT GROUP		ATMOSPHERIC POLLUTION				
S. No	PARAMETERS	UNIT	TEST METHOD	RESULTS		LIMITS AS PER *APPCB
				Before CCM	After CCM	
1	Stack Temperature	K	IS 11255 (Part 3)	512	507	--
2	Flue Gas Velocity	m/s	IS 11255 (Part 3)	27.6	27.2	--
3	Flow Rate	Nm ³ /hr	IS 11255 (Part 3)	454	448	--
4	Particulate Matter (PM)	mg/Nm ³	IS 11255 (Part 1)	69.4	12.9	115
5	Sulphur dioxide (SO ₂)	mg/Nm ³	IS 11255 (Part 2)	5.96	5.58	--
6	Oxide of Nitrogen (NO _x)	mg/Nm ³	IS 11255 (Part 7)	239	232.4	--
7	Carbon monoxide (CO)	%	IS 13270	BDL (DL:0.2)	BDL (DL:0.2)	--
8	Carbon dioxide (CO ₂)	%	IS 13270	4.9	1.3	--
9	Oxygen (O ₂)	%	IS 13270	12.8	14.9	--

Note: BDL: Below Detectable Limit, DL: Detectable Limit.

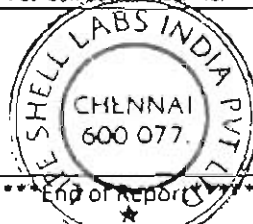
*APPCB: ANDHRA PRADESH POLLUTION CONTROL BOARD. CCM: Carbon Cutter Machine.

Verified by

M. Balaji

M. BALAJI

Deputy Quality Manager



*****End of Report*****

Page 1 of 1

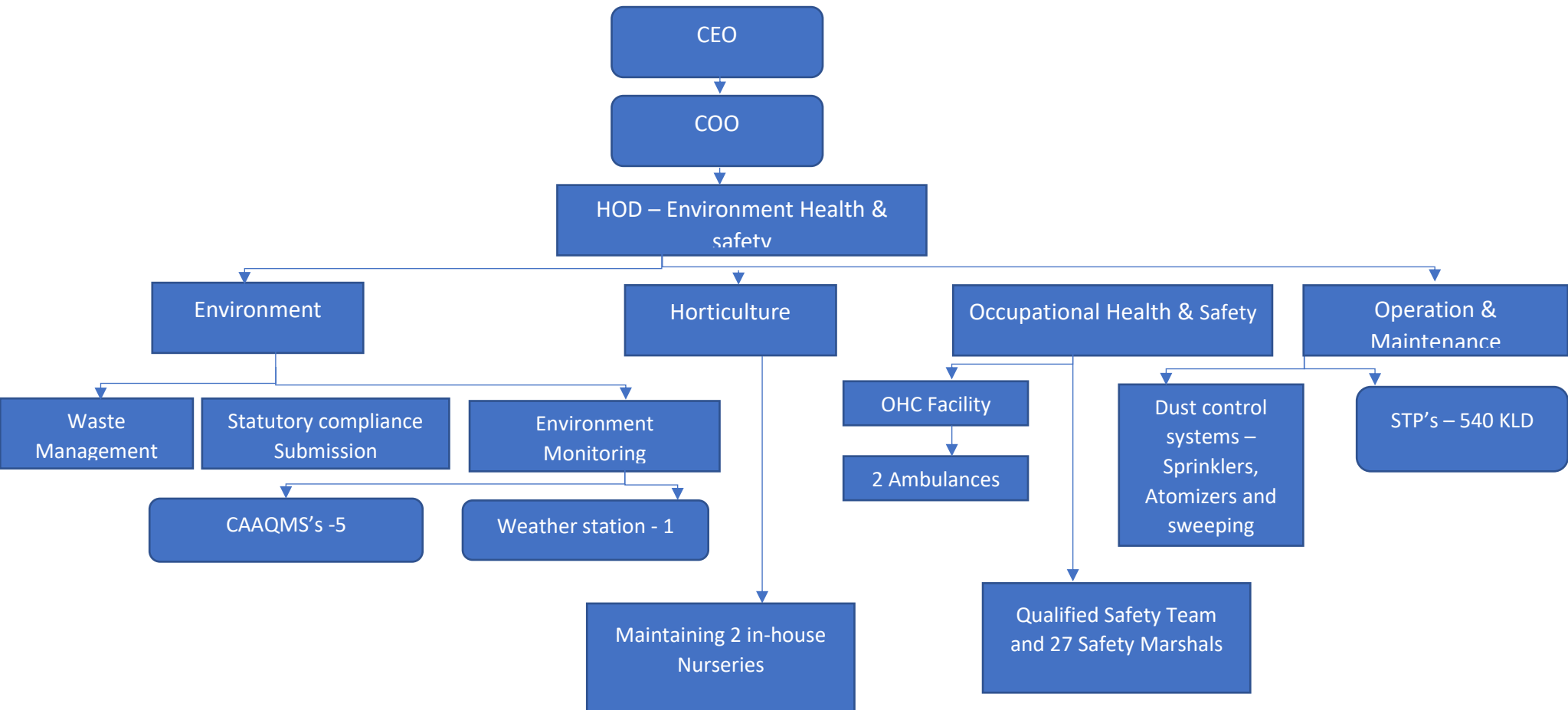
For Life Shell Labs India Pvt. Ltd.

K. Kamalanathan

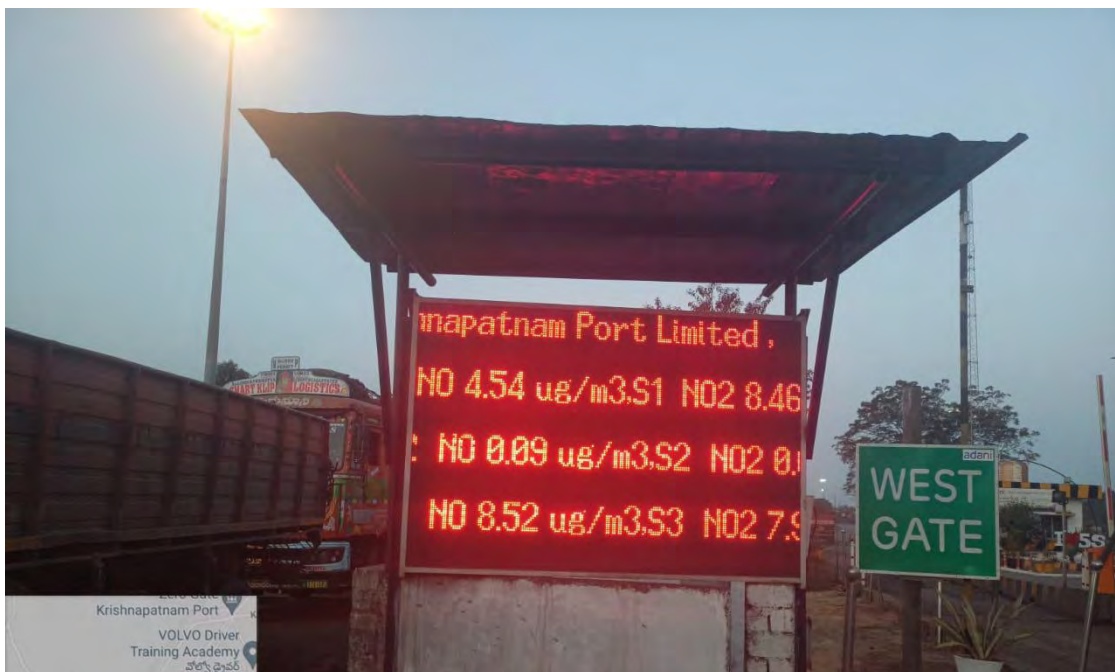
Authorized Signatory

K. KAMALANATHAN

Deputy Technical Manager



- AKPL Port has installed digital display board at the main gate indicating the AAQ concentrations.



**MONITORING OF BASELINE
ENVIRONMENTAL PARAMETERS**
(CONSOLIDATED REPORT FOR PERIOD OF Oct'24 – March'25)

FOR



M/s. ADANI KRISHNAPATNAM PORT LIMITED.

Krishnapatnam Post, Muthukur Mandal,
SPSR Nellore District, Andhra Pradesh – 524 344

Prepared By

M/s. SV ENVIRO LABS & CONSULTANTS

(MOEF Recognized, NABL & NABET Accredited And
ISO 9001, 14001 & OSHAS 18001 Certified Laboratory)

Enviro House, B1, Block-B, Autonagar, Visakhapatnam -12

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CHAPTER – 1
INTRODUCTION

1.0 INTRODUCTION

Adani Krishnapatnam Port is located in Krishnapatnam Village, Muthukur Mandal, Sri Potti Sri Ramulu Nellore, Nellore District of Andhra Pradesh on the East Coast of India at about 170 km north of Chennai Port. The latitude and longitude of the Krishnapatnam port location are 14° 15' 10" N and 80° 08' 05" E. The location of the port is shown in **Figure-1**.

Adani Krishnapatnam Port is connected to the National Highway No.16 (Chennai to Kolkata) through a dedicated 23 km long Port Road Connectivity. A dedicated 25 km long electrified Port rail Connectivity is also formed from Venkatachalam on the National Rail grid.

Presently Phase –II Development work as per the Environmental Clearance and CFE accorded by the MOEF and APPCB respectively as well as cargo handling operations as per the CFO accorded by the APPCB are in progress at the Adani Krishnapatnam Port. The layout of Adani Krishnapatnam Port is shown in **Figure-2**.

1.1 PREAMBLE

The periodic sampling of environmental parameters at Krishnapatnam port is being carried out, as per EMP, by M/s. SV ENVIRO LABS & CONSULTANTS, Visakhapatnam to ensure compliance of various environmental parameters to the respective standards / base line as the case may be as well as ascertain the impact of the port construction and operations on the environment in order to review the Environmental Management Plan being implemented at the port. A site laboratory has also been established by M/s. SV ENVIRO LABS & CONSULTANTS in the premises of Environmental Division of Adani Krishnapatnam port.

Status of the following Environmental attributes is being monitored:

- 1 Ambient Air Quality;
- 2 Ambient Noise Levels;
- 3 Marine Water Quality;
- 4 Turbidity in Marine Water in the Harbour and at Deep Sea;
- 5 Marine Sediment Quality
- 6 Ground Water Quality;
- 7 Surface Water Quality and
- 8 Soil Quality

The results of monitoring of above-mentioned environmental attributes carried out at the Adani Krishnapatnam Port during the month of Oct'24 - March'25 are submitted in this Six months Report. A Typical Activity of Krishnapatnam Port during Operational Phase- I & II from Oct'25 - March'25 are given in Table-1.1

Fig - 1: Location Map

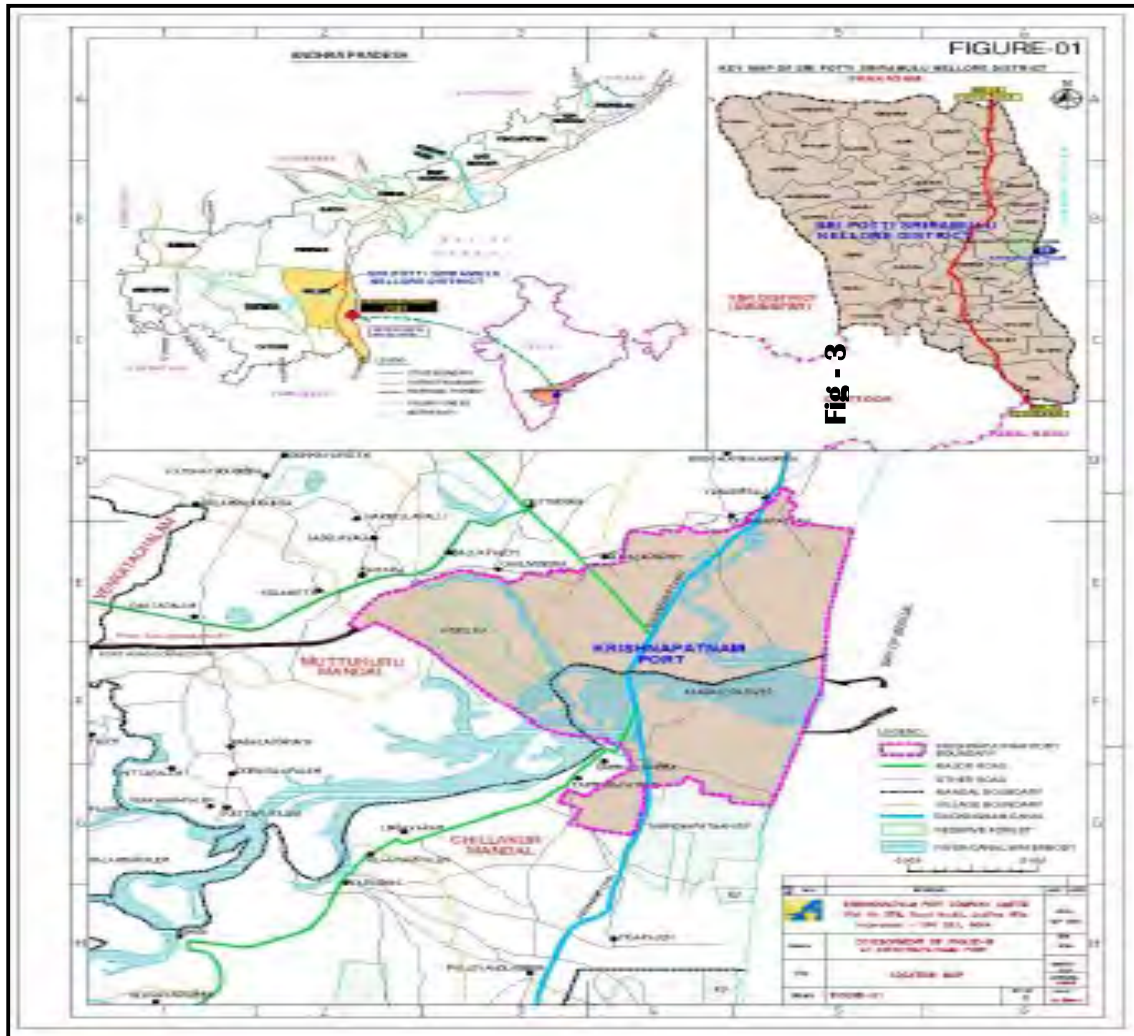


Fig No 2 : KRISHNAPATNAM PORT LAYOUT



CHAPTER – 2
SCOPE OF WORK

2.0 SCOPE OF WORK

The scope of the baseline studies include monitoring of the following environmental components

1. Ambient Air Quality
2. Marine Water
3. Marine Sediment
4. Noise Level Intensity
5. STP Inlet & Outlet
6. DG Set Emission Quality
7. Ground Water Quality Monitoring
8. Soil Quality

The parameters covered under the scope for each of the above attributes are given below:

SCOPE OF WORK

S.No	Attribute	Scope	Frequency
1.	Ambient Air Quality	Sampling of ambient air at 07 stations for analyzing the following parameters: <ul style="list-style-type: none"> • PM10 • PM2.5 • SO2 • NOx • NH₃ 	Monthly Once at each location
2.	Marine Water	Collected at four locations and analyzed the following parameters : <ul style="list-style-type: none"> • pH • Temperature • Salinity • Density • Turbidity • Total Dissolved solids • Total Suspended solids • Potassium • COD • BOD • Oil & Grease • D.O • Nitrates • Nitrites • Ammonia • Phosphates • Chlorides • Sodium • Sulphates • Silicates 	Weekly Once at each location

		<ul style="list-style-type: none"> • Reactive Silica • Total Phosphorus • Total Nitrogen • Primary Productivity • Chlorophyll • Phytoplankton • Zooplankton • Heavy Metals 	
3.	Marine Sediment	<p>Collected at four locations and analyzed for</p> <ul style="list-style-type: none"> • Sediment Compositions • pH • Nitrogen • Phosphorus • Potassium • Sodium • Benthos Communities • Heavy Metals 	Weekly Once at each location
4.	Noise Level Monitoring	<p>Collected at seven locations</p> <ul style="list-style-type: none"> • Day Leq in dB(A) • Night Leq in dB(A) 	Once in a month
5.	STP Inlet and Outlet	<ul style="list-style-type: none"> • pH • Total Solids • Total Suspended Solids • COD • BOD • Oil & Grease 	Once in a month
6.	DG Set Emission Quality	<ul style="list-style-type: none"> • PM • NOx • HC • CO 	Once in six months
7.	Ground Water Quality Monitoring	<p>Collected at Four locations</p> <ul style="list-style-type: none"> • pH • Electrical Conductivity • Total Dissolved solids • Total alkalinity • Chlorides • Sodium • Potassium • Fluorides • Nitrates • Cyanide • Total Hardness 	Once in six months

		<ul style="list-style-type: none"> • Salinity • Sulphates • COD • Mercury • Cadmium • Arsenic • Selenium • Iron • Lead • Zink • Chromium • Total Coliforms • Fecal coliforms 	
8.	Soil Quality Monitoring	<p>Collected at Four locations</p> <ul style="list-style-type: none"> • pH • EC • Texture • Available Nitrogen • Available Phosphorous • Available Potassium • Exchangeable Sodium • Exchangeable calcium • Exchangeable Magnesium • SAR • Water Soluble Chlorides • Organic Carbon • Lead • Cadmium • Copper • Zinc 	Once in six months

CHAPTER – 3
METHODOLOGY

3.0 METHODOLOGY

Methodologies adopted for sampling and analysis for each of the above parameters are detailed below. Methods of monitoring and analysis for various parameters

S.No	Attributes	Measurement Technique		
1.	Ambient Air Quality	PM ₁₀	Respirable Dust Sampler (Gravimetric method)	IS-5182 (Part-XXIII)
		PM _{2.5}	Fine Particulate Sampler (Gravimetric method)	IS-5182 (Part-XXIV)
		Sulphur dioxide	Modified West and Gaeke	IS-5182 (Part-II)
		Oxides of Nitrogen	Jacob & Hochheiser	IS-5182 (Part-VI)
		NH ₃	Indophenol Blue Method	-
2.	Marine Water	APHA Methods 24 th Edition, 2023		
3.	Marine Sediment	ASTM Method		
4.	STP Inlet and Outlet	APHA Methods 24 th Edition, 2023		
5.	Noise Level Intensity	Digital Noise Level Meter – SL Lutron 4001		
6.	DG Set Emission Quality	IS : 11255 Measurement of Emission from Stationary Sources		
7.	Ground Water Quality	APHA Methods 24 th Edition, 2023		
8.	Soil Quality	IS:2720 & methods of soil analysis, part-1, 2 nd edition, 1986 (American Society for Agronomy and Soil Science Society of America).		

CHAPTER – 4
ENVIRONMENTAL MONITORING STUDIES

4.0 ENVIRONMENTAL MONITORING STUDIES – Oct'24 to March'25

S.No	ATTRIBUTE	SCOPE	STUDIES CARRIED OUT
1.	Ambient Air Quality	Collection of ambient air at Seven locations in and outside of port premises	Ambient Air samples collected at 7 locations for PM10, PM2.5, SO2, NOx & NH3 (monthly once) for the period of 01.10.2024 to 31.10.2025.
2.	Marine Water and Surface Water Quality	Collection of Marine Water at six locations. <ul style="list-style-type: none"> • Port Entrance (Approach Channel) • Turning Circle • Coal Berth • Reclamation Area (Mutable) • Buckingham Canal • Khandaleru Creek 	Marine Water samples from Port Entrance, Turning Circle, Coal Berth and Reclamation Area are collection weekly once. Samples for Buckingham Canal and Khandaleru Creek are collected monthly once. All the samples are tested for Physical, Chemical and Microbiological parameters Collected for the period of 01.10.2024 to 31.10.2025.
3.	Marine Water Quality for Turbidity	Collection of Marine Water at seven locations. <ul style="list-style-type: none"> • Port Entrance (Approach Channel) • Turning Circle • Coal Berth • Reclamation Area (Mutable) • 14°19'26"N & 80°15'43"E • 14°16'52"N & 80°17'40"E 	Marine Water samples from Port Entrance, Turning Circle, Coal Berth and Reclamation Area are collection weekly once. Deep Sea water Samples are collected monthly once. Collected for the period of 01.10.2024 to 31.10.2025.

		<ul style="list-style-type: none"> • 14°16'11"N & 80°17'40"E 	
4.	Marine Sediment	<p>Collected at</p> <ul style="list-style-type: none"> • Port Entrance (Approach Channel) • Turning Circle • Coal Berth • Reclamation Area (Mutable) 	<p>Collected at four locations and analyzed for the hereunder weekly once.</p> <ul style="list-style-type: none"> • Sediment Compositions • pH • Nitrogen • Phosphorus • Potassium • Sodium • Benthos Communities • Heavy Metals <p>Collected for the period of 01.10.2024 to 31.10.2025.</p>
5.	Noise Level Intensity	Noise levels were noted at Seven locations inside and outside port premises.	<p>Day and Night Noise levels were noted at</p> <ul style="list-style-type: none"> • Zero Point • Thamminapatnam • CVR Building • Gopalpuram • Chalivendram • Krishnapatnam • Light House Siding <p>Collected Noise Levels at seven locations for day and night periods once in the month from 01.10.2024 to 31.10.2025.</p>

6.	STP Inlet and Outlet	Inlet and Outlet samples are collected from STP at Port	STP Inlet and Outlet samples are collected monthly once. Collected for the period of 01.10.2024 to 31.10.2025.
7.	DG Set Emission Quality	Emission Quality was conducted to DG Sets of port premises	Emission Quality was conducted to DG Sets of port premises, ie PM, NOx, HC & CO (Six months once) for the period of 01.10.2024 to 31.10.2025
8.	Ground Water Quality Monitoring	Collected at <ul style="list-style-type: none"> • Port Site • Krishnapatnam village • South side of the port • Gopalapuram village 	Ground Water samples from Port site, Krishnapatnam village, South side of the port, Gopalapuram village Bore wells water samples are collected half yearly once. All the samples are tested for Physical, Chemical and Microbiological parameters Collected for the period of 01.10.2024 to 31.10.2025.
9.	Soil Quality	Collection of Soil sample at Two locations. <ul style="list-style-type: none"> • Storage area towards west Buckingham canal • Storage area at Port 	Soil samples from Storage area towards west, Storage area at Port Area are collection half yearly once. All the samples are tested for Physical, Chemical parameters. Collected for the period of 01.10.2024 to 31.10.2025.

4.1 METEOROLOGICAL DATA

Meteorological data was collected on hourly basis by installing an auto weather monitoring station at Plant site. The report depicted hereunder represents the data for study period (01.10.2024 to 31.10.2025.)

The following parameters were recorded

- Wind speed
- Wind direction
- Temperature
- Relative humidity
- Rainfall

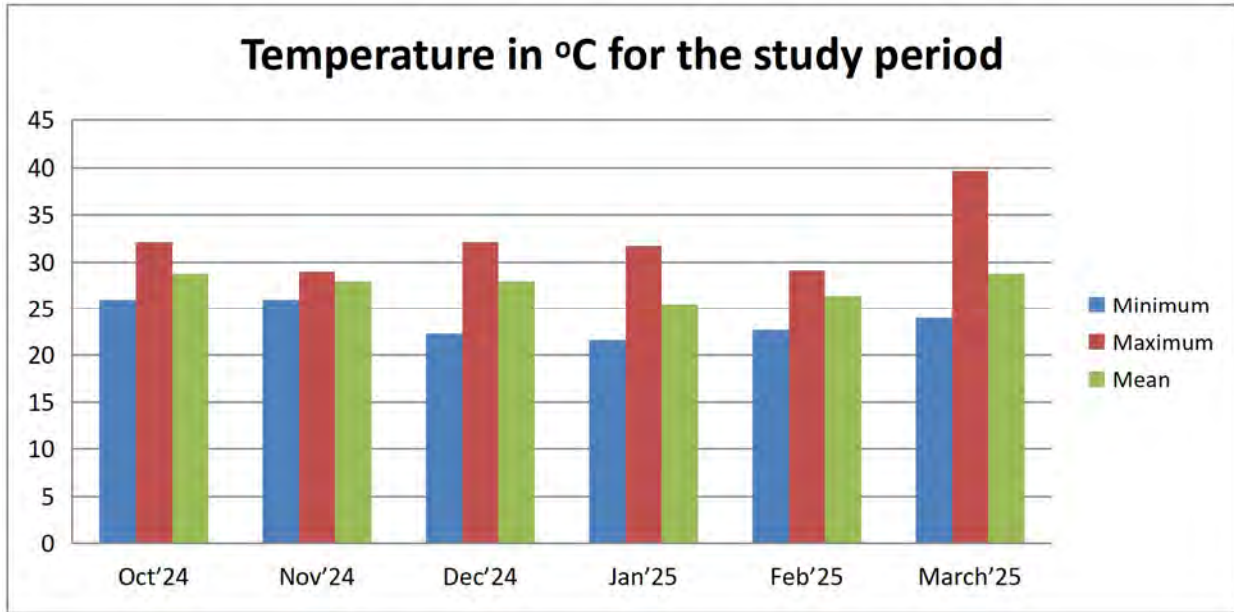
MINIMUM AND MAXIMUM VALUES OF RELATIVE HUMIDITY, TEMPERATURE AND RAINFALL DURING STUDY PERIOD (01.04.2024 to 31.09.2024).

Temperature in °C	Oct'24	Nov'24	Dec'24	Jan'25	Feb'25	March'25
Minimum	26.0	26.0	22.3	21.6	22.7	24.0
Maximum	32.1	29.0	32.1	31.7	29.1	39.7
Mean	28.8	28.0	28.0	25.5	26.4	28.8

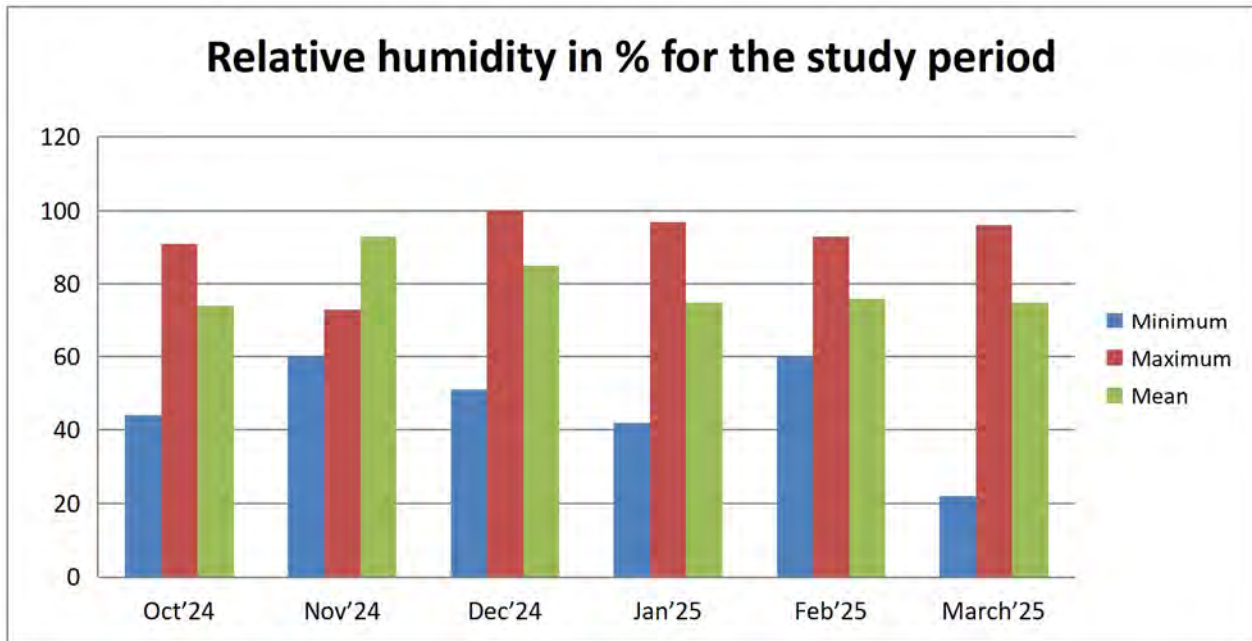
Relative Humidity %	Oct'24	Nov'24	Dec'24	Jan'25	Feb'25	March'25
Minimum	44	60	51	42	60	22
Maximum	91	73	100	97	93	96
Mean	74	93	85	75	76	75

Rainfall in mm	Oct'24	Nov'24	Dec'24	Jan'25	Feb'25	March'25
Minimum	0.1	0.1	0.1	0.1	-	-
Maximum	48.4	29.2	27.3	6.2	-	-
Cumulative	439.06	324.5	153.7	6.91	-	-

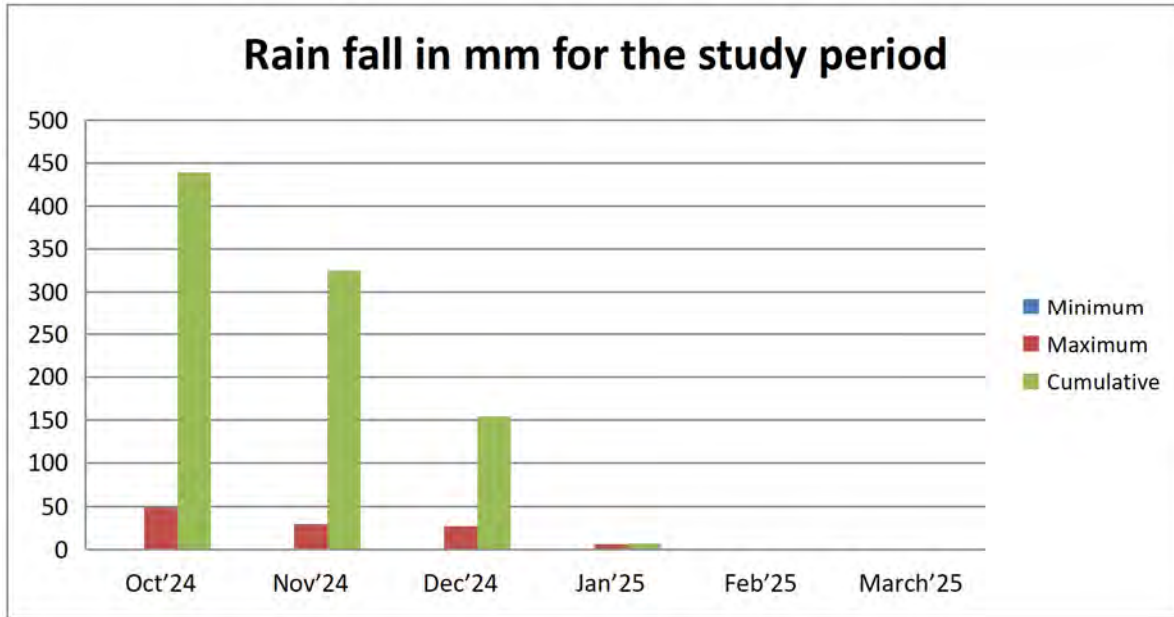
Graphical interpretation of Minimum and Maximum values of and Temperature during study period.



Graphical Interpretation of Minimum and Maximum values of Relative Humidity during study period.



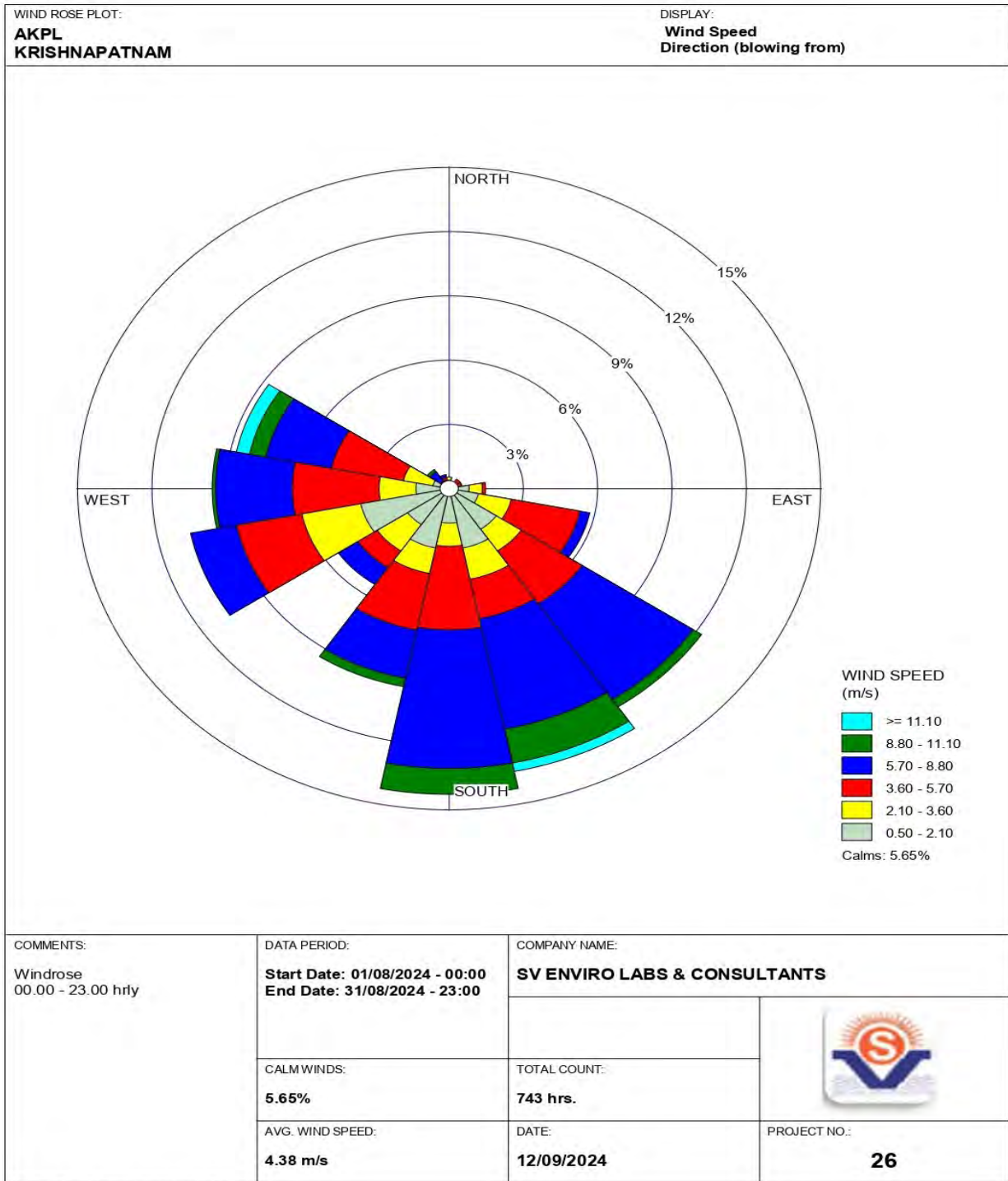
Graphical Interpretation of Minimum and Maximum values of Rainfall during study period.



WIND PATTERN – (April'24 – Sep'24)

Predominant Wind directions	Distribution in Percentage	Wind rose Enclosed as
ENE	18.1 %	Fig – 7
E	11.3%	
NE	9.52%	
ESE	7.38%	

Fig-7. Wind rose diagram for 00.00 – 23.00 hrs (24hrly)



WRPI OT View - I akes Environmental Software

4.2 AMBIENT AIR QUALITY MONITORING

The ambient air quality was assessed through a network of 07 AAQM stations within 10 Km radius of project site (5 stations in buffer zone & 2 location inside plant area).

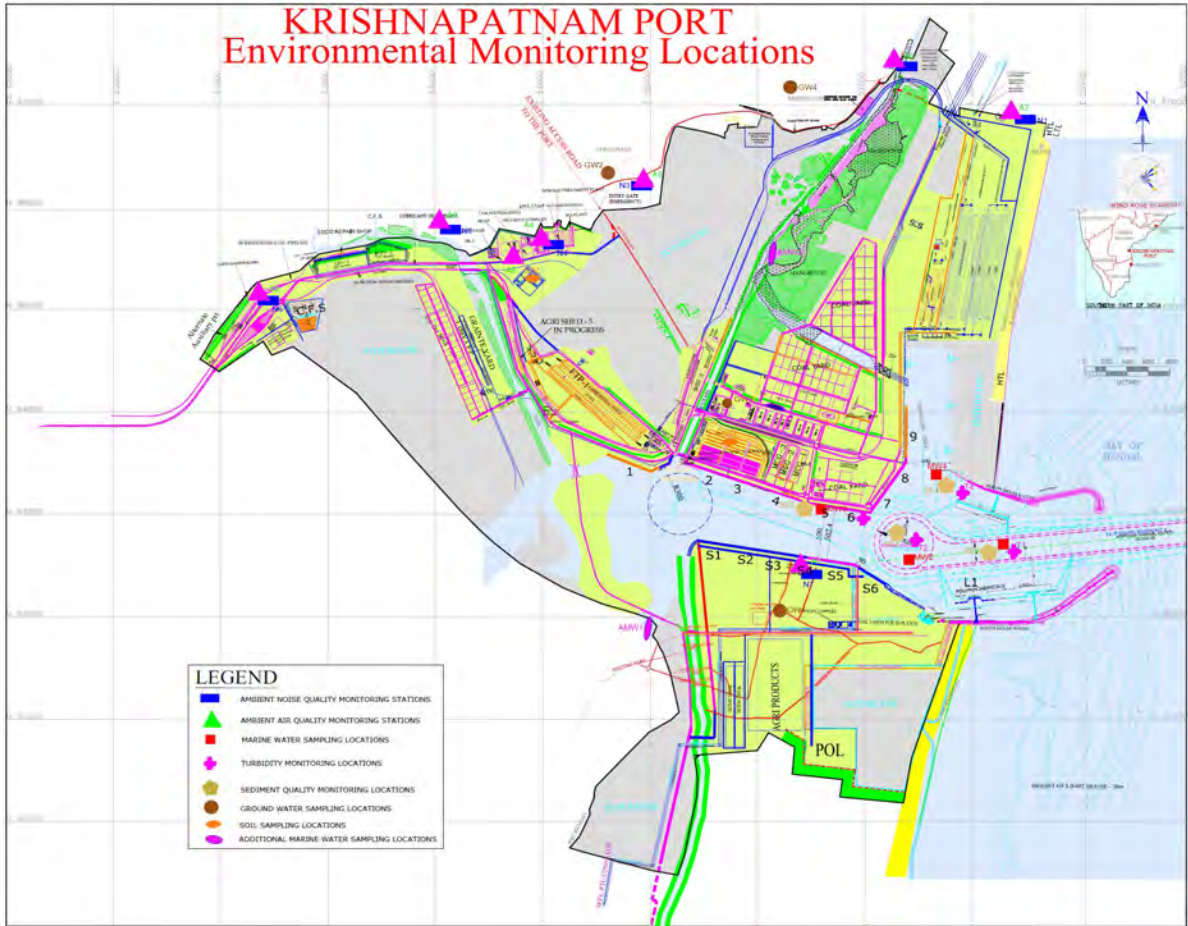
The locations of ambient air quality stations are shown in Fig – 4is given below:

Table No- 2

DETAILS OF AMBIENT AIR QUALITY MONITORING LOCATIONS

Station code	Location	Direction w.r.t. Project site	Environmental setting
A1	At Zero Point	W	Industrial
A2	At Thamminapatnam Village	S	Industrial
A3	At CVR Building	WNW	Residential
A4	At Gopalpuram Village	NW	Residential
A5	At Chalivendram	WNW	Residential
A6	At Krishnapatnam	NNW	Residential
A7	At Light House	SW	Residential

Fig 4. AMBIENT AIR SAMPLING STATIONS LOCATION MAP



Summary of Analysis of Ambient Air Quality in the Study Area at A1 –Zero Point for the period of Oct'24 – March'25.

	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	NH ₃ (µg/m ³)
Oct'24	61.5	24.3	13.1	14.0	BDL
Nov'24	63.9	26.2	14.0	15.4	BDL
Dec'24	66.3	27.8	13.2	14.5	BDL
Jan'25	68.9	28.6	14.1	15.8	BDL
Feb'25	64.6	26.4	12.7	14.2	BDL
March'25	69.2	29.5	13.9	15.6	BDL
NAAQS Standards	100	60	80	80	400

Summary of Analysis of Ambient Air Quality in the Study Area at A2 –Thamminipatnam for the period of Oct'24 – March'25.

	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	NH ₃ (µg/m ³)
Oct'24	51.4	21.2	10.6	13.1	BDL
Nov'24	54.3	23.1	12.0	14.5	BDL
Dec'24	56.8	24.6	11.6	13.5	BDL
Jan'25	60.3	26.1	12.5	14.9	BDL
Feb'25	57.4	24.2	10.9	13.1	BDL
March'25	62.7	26.9	12.3	14.6	BDL
NAAQS Standards	100	60	80	80	400

Summary of Analysis of Ambient Air Quality in the Study Area at A3 –CVR for the period of Oct'24 – March'25.

	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	NH ₃ (µg/m ³)
Oct'24	49.3	19.5	9.0	10.4	BDL
Nov'24	52.6	21.3	10.7	11.9	BDL
Dec'24	55.1	23.4	9.6	10.7	BDL
Jan'25	58.7	25.3	10.8	11.9	BDL
Feb'25	55.3	23.1	9.5	11.0	BDL
March'25	60.8	25.6	11.4	13.2	BDL
NAAQS Standards	100	60	80	80	400

Summary of Analysis of Ambient Air Quality in the Study Area at A4 –Gopalpuram for the period of Oct'24 – March'25.

	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	NH ₃ (µg/m ³)
Oct'24	48.3	19.6	10.2	12.1	BDL
Nov'24	51.5	20.8	11.0	12.9	BDL
Dec'24	54.2	22.0	10.4	11.6	BDL
Jan'25	58.6	24.5	11.4	12.8	BDL
Feb'25	53.9	22.4	10.2	11.5	BDL
March'25	57.3	25.1	11.6	12.8	BDL
NAAQS Standards	100	60	80	80	400

Summary of Analysis of Ambient Air Quality in the Study Area at A5 –Chalivendram for the period of Oct'24 – March'25.

	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	NH ₃ (µg/m ³)
Oct'24	46.2	18.5	11.3	12.0	BDL
Nov'24	49.5	19.9	12.6	13.9	BDL
Dec'24	51.8	21.3	11.9	12.6	BDL
Jan'25	55.2	23.9	12.7	13.5	BDL
Feb'25	52.1	21.3	11.0	12.3	BDL
March'25	55.7	23.5	12.4	13.2	BDL
NAAQS Standards	100	60	80	80	400

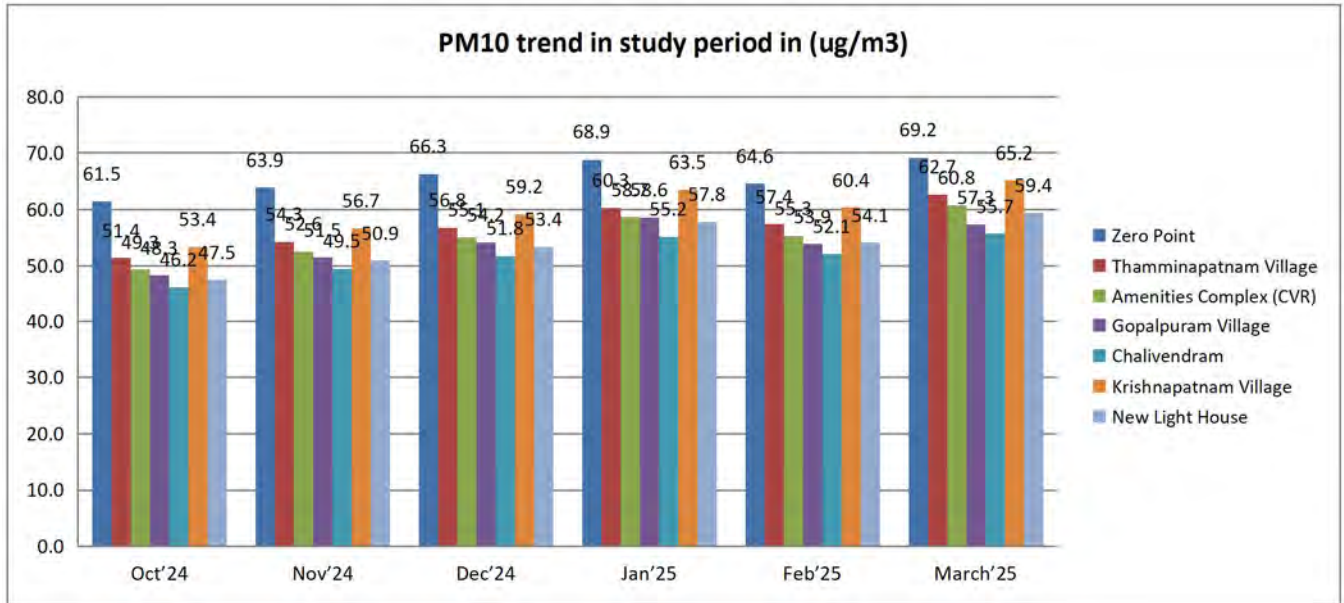
Summary of Analysis of Ambient Air Quality in the Study Area at A6 –Krishnapatnam for the period of Oct'24 – March'25.

	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	NH ₃ (µg/m ³)
Oct'24	53.4	22.0	10.6	12.1	BDL
Nov'24	56.7	24.5	11.3	13.6	BDL
Dec'24	59.2	26.1	10.4	12.3	BDL
Jan'25	63.5	27.8	11.2	13.1	BDL
Feb'25	60.4	25.8	10.6	12.2	BDL
March'25	65.2	27.9	12.4	14.2	BDL
NAAQS Standards	100	60	80	80	400

Summary of Analysis of Ambient Air Quality in the Study Area at A7 –Light House for the period of Oct'24 – March'25.

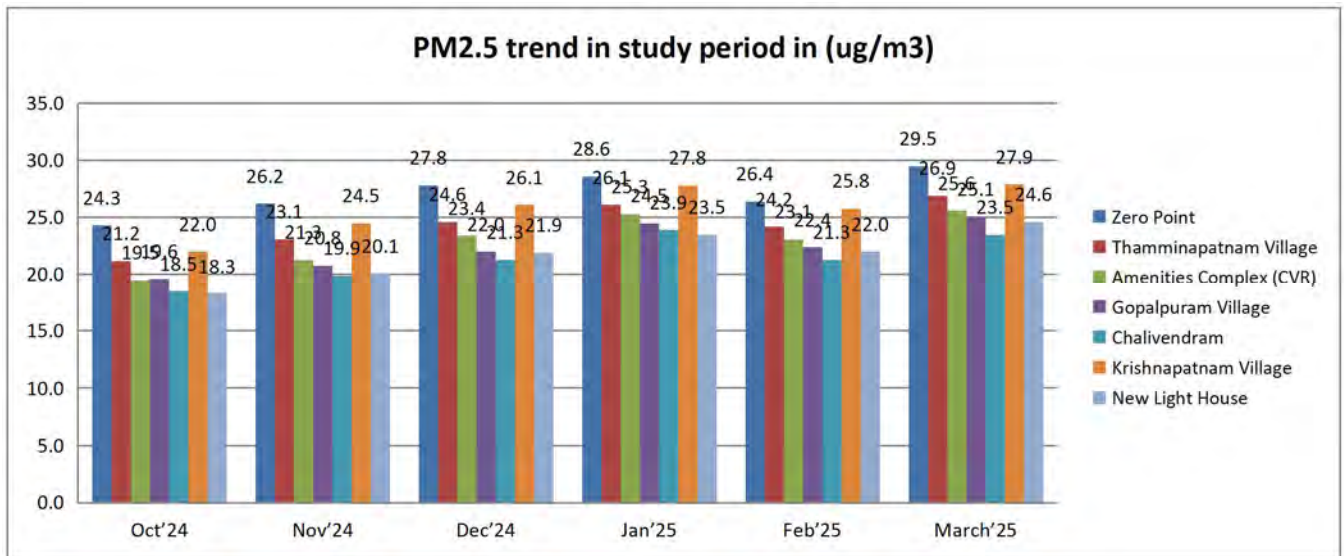
	PM₁₀ (µg/m³)	PM_{2.5} (µg/m³)	SO₂ (µg/m³)	NO_x (µg/m³)	NH₃ (µg/m³)
Oct'24	47.5	18.3	7.6	9.8	BDL
Nov'24	50.9	20.1	8.9	11.0	BDL
Dec'24	53.4	21.9	8.2	10.9	BDL
Jan'25	57.8	23.5	9.4	11.2	BDL
Feb'25	54.1	22.0	8.6	10.0	BDL
March'25	59.4	24.6	9.8	11.5	BDL
NAAQS Standards	100	60	80	80	400

Summary of Analysis of Ambient Air Quality in the Study Area – PM10 for Oct'24 – March'25.



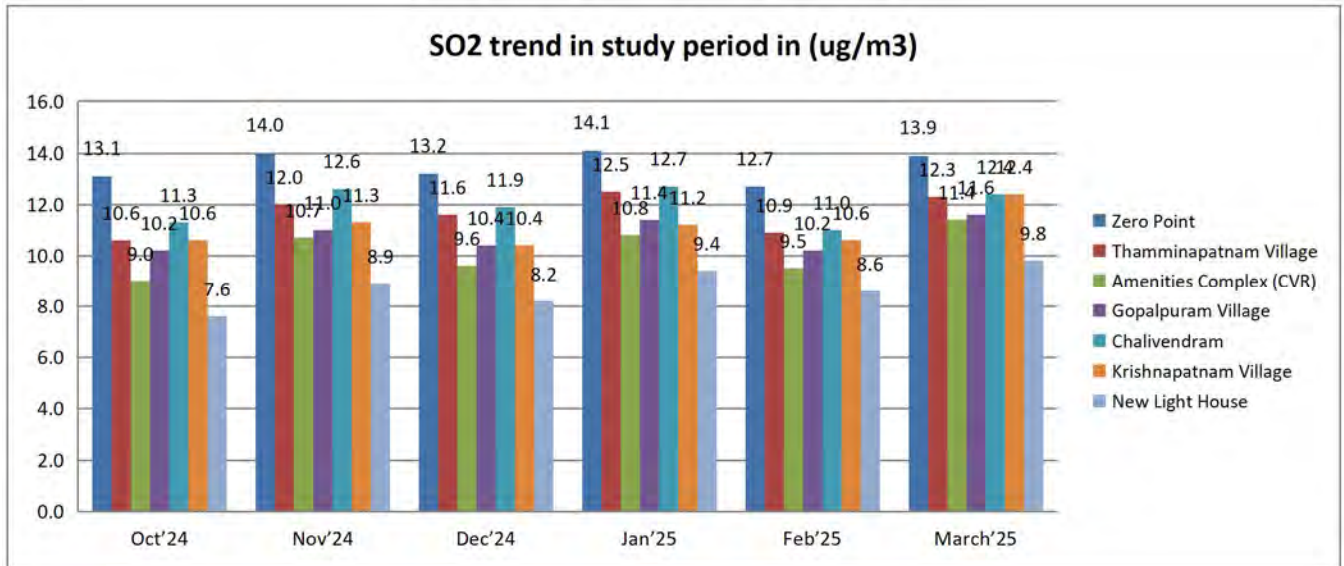
- ❖ *PM10 varied between 46.2 to 69.2 µg/m³ Minimum: Chalivendram*
- ❖ *Maximum: Zero Point, NAAQ Standard: 100µg/m³*

Summary of Analysis of Ambient Air Quality in the Study Area – PM2.5 for Oct'24 – March'25.



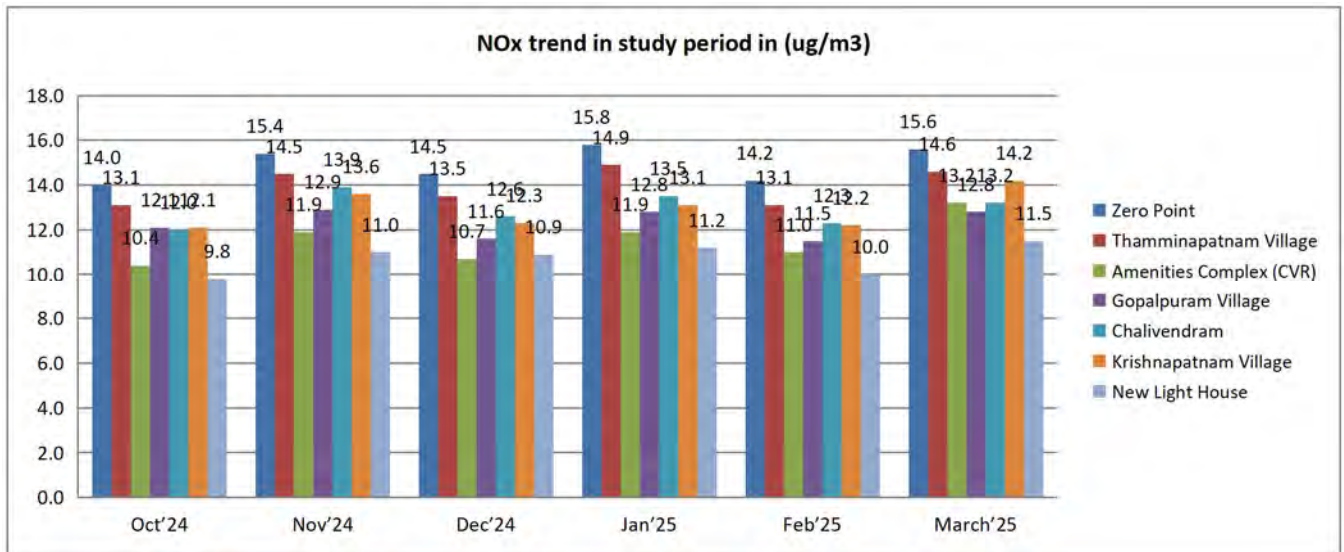
- ❖ *PM2.5 Varied between 18.3 to 29.5 µg/m³, Minimum: New light house*
- ❖ *Maximum ;Zero Point, NAAQ Standard : 60 µg/m³*

Summary of Analysis of Ambient Air Quality in the Study Area – SO₂ for Oct'24 – March'25.



- ❖ *SO₂ Varied between 7.6 to 14.1 μg/m³, Minimum : New Light House*
- ❖ *Maximum : Zero Point, NAAQ Standard : 80 μg/m³*

Summary of Analysis of Ambient Air Quality in the Study Area – NO_x for Oct'24 – March'25.



- ❖ *NO_x Varied between 9.8 to 15.8 μg/m³, Minimum :New Light House*
- ❖ *Maximum :Zero Point , NAAQ Standards : 80 μg/m³*

4.3 AMBIENT NOISE LEVEL INTENSITY

Collection of ambient noise levels at Seven locations (6 locations at nearby villages & 1 location near plant). Spot noise levels were measured with a precalibrated Noise Level Meter – SL Lutron 4001 for day and night periods.

Table No-3

DETAILS OF NOISE MONITORING LOCATIONS

STATION CODE	LOCATIONS	DIRECTION w.r.t PROJECT SITE
N1	At Zero Point	W
N2	At Thamminapatnam Village	S
N3	At CVR Building	WNW
N4	At Gopalpuram Village	NW
N5	At Chalivendram	WNW
N6	At Krishnapatnam	NNW
N7	At Light House	SW

The noise monitoring locations are depicted in **Fig – 5**

The noise levels monitored during the study period are given hereunder in form of Leq day, Leq night compared with CPCB Standards.

Location Code	Environmental Setting	CPCB norms Leq (Dba)	
		Day	Night
N1	Industrial	75	70
N2	Industrial	75	70
N3	Residential	55	45
N4	Residential	55	45
N5	Residential	55	45
N6	Residential	55	45
N7	Residential	55	45

Noise Level Data for the above locations are enclosed as Table - 4.5.1&4.5.2

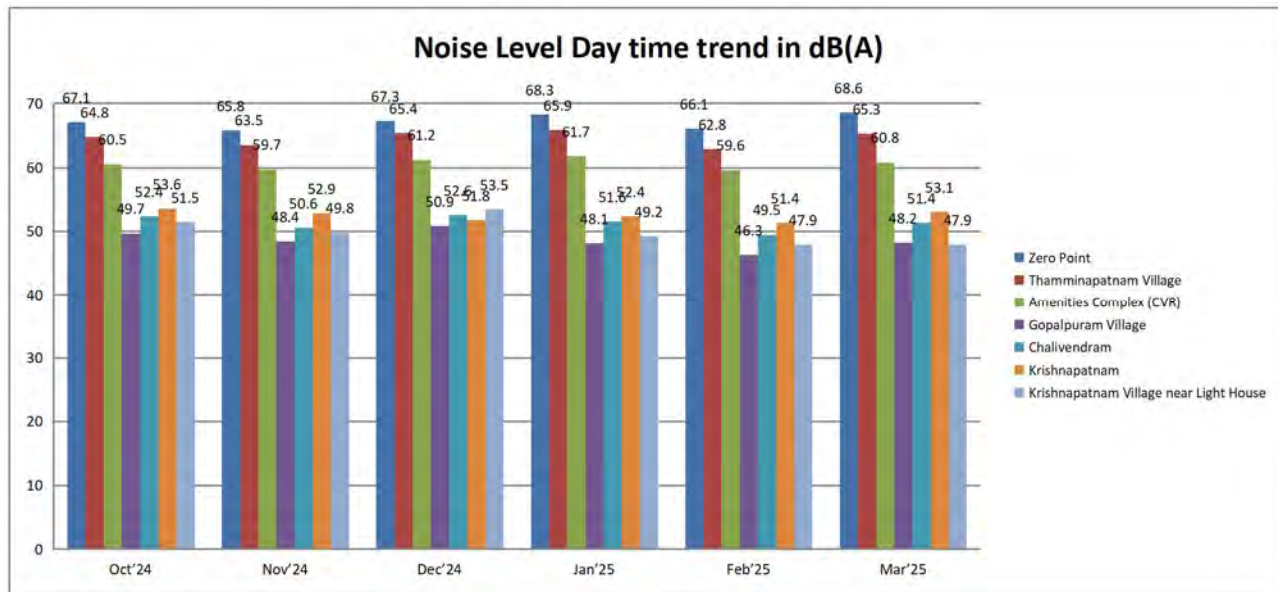


TABLE-4.5.1

Location	Oct'24	Nov'24	Dec'24	Jan'25	Feb'25	March'25
Zero Point	67.1	65.8	67.3	68.3	66.1	68.6
Thamminapatnam Village	64.8	63.5	65.4	65.9	62.8	65.3
Amenities Complex (CVR)	60.5	59.7	61.2	61.7	59.6	60.8
Gopalpuram Village	49.7	48.4	50.9	48.1	46.3	48.2
Chalivendram	52.4	50.6	52.6	51.6	49.5	51.4
Krishnapatnam	53.6	52.9	51.8	52.4	51.4	53.1
Krishnapatnam Village near Light House	51.5	49.8	53.5	49.2	47.9	47.9

- ❖ *Industrial Day time noise level varied between 47.9 to 68.6 dB(A)*
- ❖ *Residential Day time noise level varied between 46.3 to 53.6 dB(A)*
- ❖ *NAAQ Standard: Industrial -75 Db(A):Residential –55dB(A)*

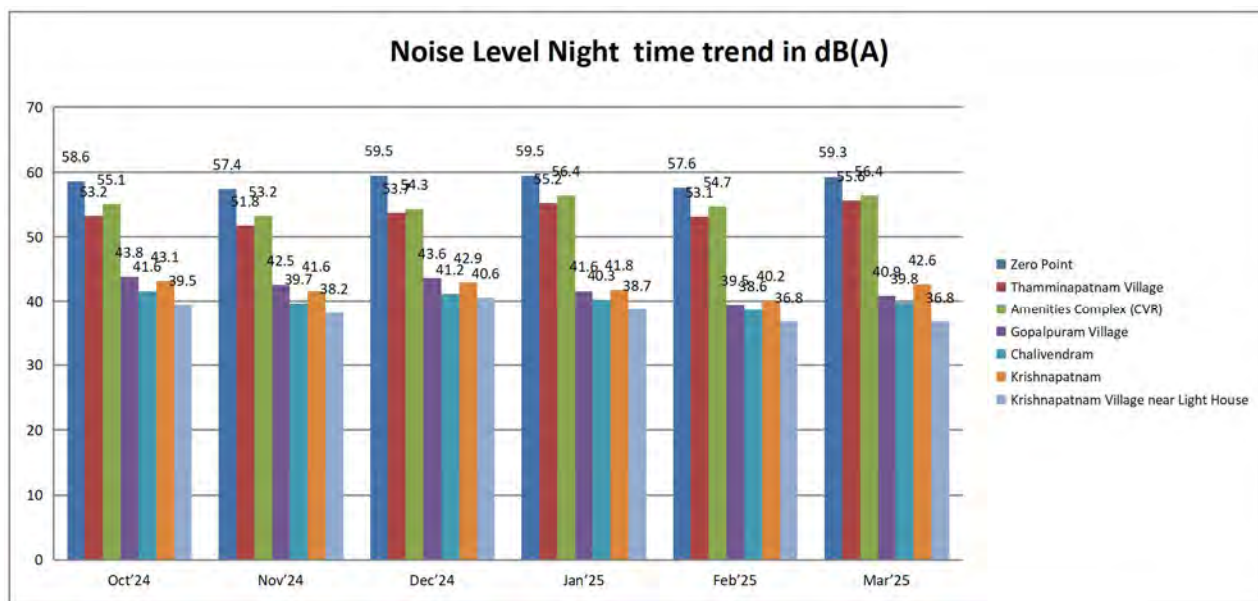


TABLE-4.5.2

Location	Oct'24	Nov'24	Dec'24	Jan'25	Feb'25	March'25
Zero Point	58.6	57.4	59.5	59.5	57.6	59.3
Thamminapatnam Village	53.2	51.8	53.7	55.2	53.1	55.6
Amenities Complex (CVR)	55.1	53.2	54.3	56.4	54.7	56.4
Gopalpuram Village	43.8	42.5	43.6	41.6	39.5	40.9
Chalivendram	41.6	39.7	41.2	40.3	38.6	39.8
Krishnapatnam	43.1	41.6	42.9	41.8	40.2	42.6
Krishnapatnam Village near Light House	39.5	38.2	40.6	38.7	36.8	36.8

- ❖ *Industrial Night time noise level varied between 36.8 to 59.5 dB(A)*
- ❖ *Residential Night time noise level varied between 38.6 to 43.8 dB(A)*
- ❖ *NAAQ Standard: Industrial -70 Db(A) ,Residential-45 dB(A)*

4.4 Marine Water and Surface Water Quality

4.4.1 Sampling Locations

Marine water sampling is carried out once in every week at Four sampling locations in the port. In addition to marine quality sampling, surface water quality sampling is also carried out at two locations in the creek once in every month. The marine water and surface water sampling locations are given in **Table-4** and **Figure-5**.

Table No- 4
MARINE WATER QUALITY AND
SURFACE WATER MONITORING LOCATIONS

Location Code	Location
Marine Water Quality Sampling Location	
MW1	Coal Berth
MW2	Turning Circle
MW3	Approach Channel
MW4	Reclamation Area (Mutable)
Surface Water Sampling Location	
SW1	Kandaleru Creek
SW2	Buckingham Canal

- Analysis results of the water samples collected from the above locations are enclosed

The methodology for sample collection and preservation techniques was followed as per the Standard Operating Procedures (SOP) mentioned in table hereunder:

Table No- 5
Standard Operating Procedures (SOP) For Water Sampling

Parameter	Sample Collection	Sample Size	Storage/ Preservation
pH	Grab sampling Plastic /glass container	50 ml	Refrigeration, can be stored for 7 days
Electrical Conductivity	Grab sampling Plastic /glass container	50 ml	Refrigeration, can be stored for 7 days
Total suspended solids	Grab sampling Plastic /glass container	100 ml	Refrigeration, can be stored for 7 days
Total Dissolved Solids	Grab sampling Plastic /glass container	100 ml	Refrigeration, can be stored for 7 days
BOD	Grab sampling Plastic /glass container	500 ml	Refrigeration, 48 hrs
Hardness	Grab sampling Plastic /glass container	100 ml	Add HNO ₃ to pH<2, refrigeration; 6 months
Chlorides	Grab sampling Plastic /glass container	50 ml	Not required; 28 days
Sulphates	Grab sampling Plastic /glass container	100 ml	Refrigeration; 28 days
Nitrates	Plastic containers	100 ml	Refrigeration; 48 hrs
Fluorides	Plastic containers only	100 ml	Not required; 28 days
Alkalinity	Plastic/ glass containers	100 ml	Refrigeration; 14 days
Ammonia	Plastic/ glass containers	100 ml	Add H ₂ SO ₄ to pH>2, refrigeration, 28 days
Heavy Metals (Ar, Cd, Mn, Cu, Fe, Zn, Pb etc.)	Plastic/ Glass rinse with 1+1 HNO ₃	500 ml	Filter, add HNO ₃ to pH>2; Grab sample; 6 months

Source: Standard Methods for the Examination of Water and Wastewater, Published By APHA, 24th Edition, 2023

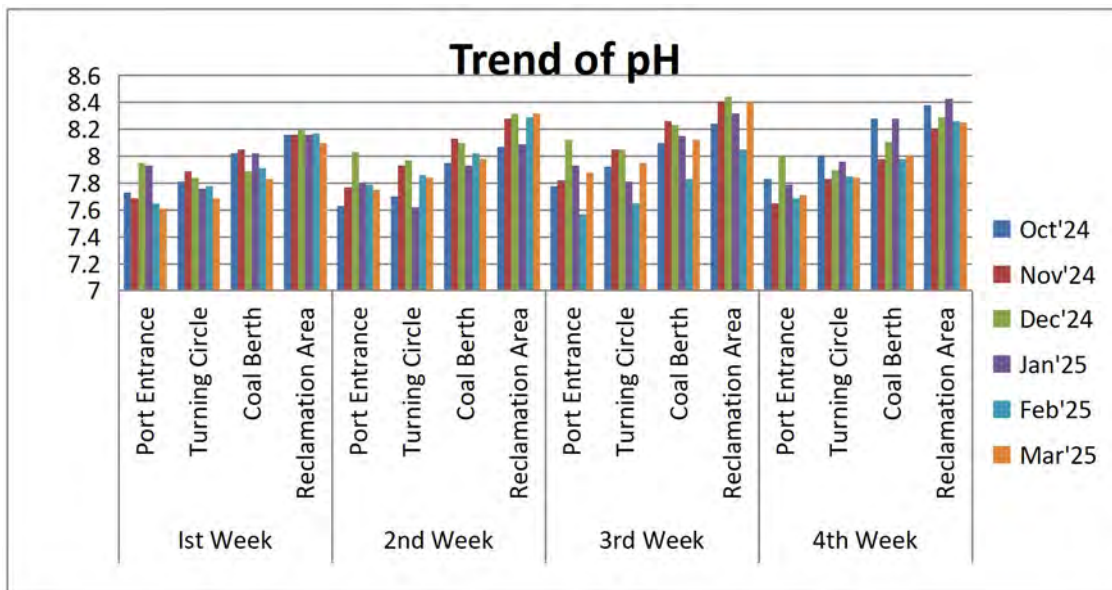
The analytical techniques used for water analysis is given in the table hereunder:

Table No- 6
Analytical Techniques for Water Analysis

S.No	Parameter	Method
1.	pH	APHA, 4500-H+B, 24 th Ed., 2023
2.	Colour	APHA, 2120-C/2120-B, 24 th Ed., 2023
3.	Odour	APHA, 2150, 24 th Ed., 2023
4.	Temperature	APHA, 2550-A+B, 24 th Ed., 2023
5.	Oil & Grease	APHA, 5520-D, 24 th Ed., 2023
6.	Total Suspended Solids	APHA, 2540-D, 24 th Ed., 2023
7.	Total Dissolved Solids	APHA, 2540-C, 24 th Ed., 2023
8.	Total Residual Chlorine	APHA, 4500-Cl B, 24 th Ed., 2023
9.	Biochemical Oxygen Demand	APHA, 5210-B, 24 th Ed., 20234500-OC, 24 th Ed., 2023
10.	Chemical Oxygen Demand	APHA, 5220-B, 24 th Ed., 2023
11.	Free Ammonia	IS 3025
12.	Ammonical Nitrogen	APHA, 4500-NH ₃ B, 24 th Ed., 2023
13.	Total Kjeldhal Nitrogen	APHA, 4500-Norg B, 24 th Ed., 2023
14.	Zinc	APHA, 3111-B, 24 th Ed., 2023
15.	Lead	APHA, 3111-B, 24 th Ed., 2023
16.	Cadmium	APHA, 3111-B, 24 th Ed., 2023
17.	Mercury	APHA, 3112-B, 24 th Ed., 2023
18.	Arsenic	APHA, 3114-B, 24 th Ed., 2023
19.	Copper	APHA, 3111-B, 24 th Ed., 2023
20.	Nickel	APHA, 3111-B, 24 th Ed., 2023
21.	Cyanide	APHA, 4500-CNB, 24 th Ed., 2023
22.	Fluoride	APHA, 4500-FD, 24 th Ed., 2023 (SPANDS Methods)
23.	Phosphates	APHA, 4500-PD, 24 th Ed., 2023
24.	Sulphates	APHA, 4500-SO ₄ ²⁻ E, 24 th Ed., 2023
25.	Sulphide	APHA, 4500-S ²⁻ , 24 th Ed., 2023
26.	Manganese	APHA, 3111-B, 24 th Ed., 2023
27.	Iron	APHA, 3111-B, 24 th Ed., 2023
28.	Phenolic Compounds	APHA, 5530-B, 24 th Ed., 2023
29.	Bio Assay Test	IS 6582

Marine water samples have been collected in the port and the results of the same are shown below in **Table**.

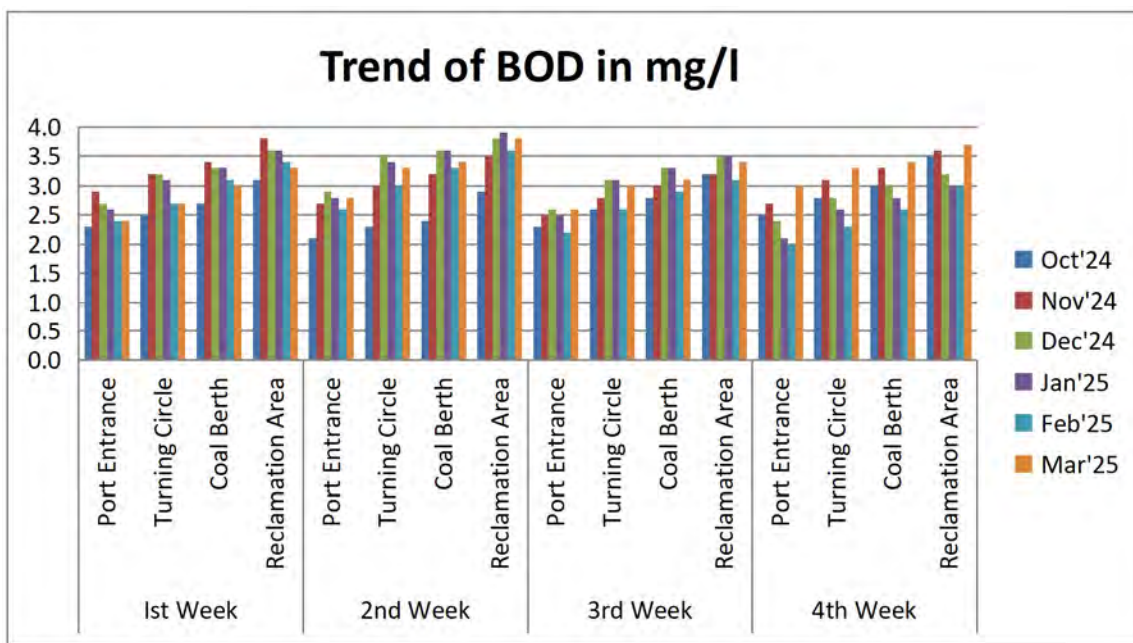
Status of Marine water Quality



pH of Marine water varied between 7.57 to 8.44

Month	1st Week				2nd Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	7.73	7.81	8.02	8.16	7.63	7.7	7.95	8.07
Nov'24	7.69	7.89	8.05	8.16	7.77	7.93	8.13	8.28
Dec'24	7.95	7.84	7.89	8.2	8.03	7.97	8.10	8.32
Jan'25	7.93	7.76	8.02	8.16	7.80	7.62	7.93	8.09
Feb'25	7.65	7.78	7.91	8.17	7.79	7.86	8.02	8.29
Mar'25	7.61	7.69	7.83	8.10	7.75	7.84	7.98	8.32

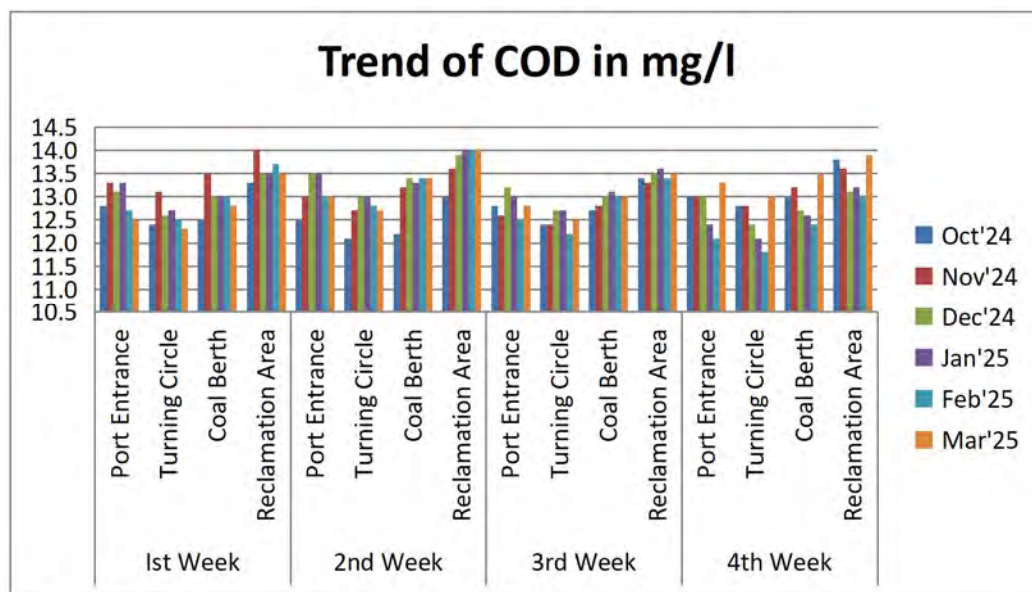
Month	3rd Week				4th Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	7.78	7.92	8.10	8.24	7.83	8.01	8.28	8.38
Nov'24	7.82	8.05	8.26	8.41	7.65	7.83	7.98	8.21
Dec'24	8.12	8.05	8.23	8.44	8.01	7.90	8.11	8.29
Jan'25	7.93	7.81	8.15	8.32	7.79	7.96	8.28	8.43
Feb'25	7.57	7.65	7.83	8.05	7.69	7.85	7.98	8.26
Mar'25	7.88	7.95	8.12	8.41	7.71	7.84	8.01	8.25



❖ BOD of Marine Water varied between 2.0 to 3.9 mg/l

Month	Ist Week				2nd Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	2.3	2.5	2.7	3.1	2.1	2.3	2.4	2.9
Nov'24	2.9	3.2	3.4	3.8	2.7	3.0	3.2	3.5
Dec'24	2.7	3.2	3.3	3.6	2.9	3.5	3.6	3.8
Jan'25	2.6	3.1	3.3	3.6	2.8	3.4	3.6	3.9
Feb'25	2.4	2.7	3.1	3.4	2.6	3.0	3.3	3.6
Mar'25	2.4	2.7	3.0	3.3	2.8	3.3	3.4	3.8

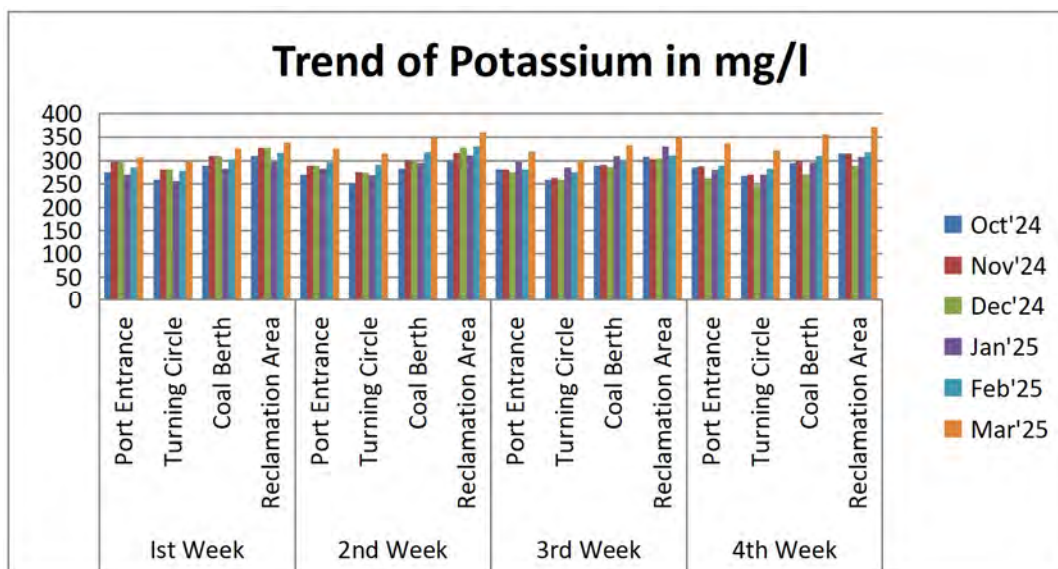
Month	3rd Week				4th Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	2.3	2.6	2.8	3.2	2.5	2.8	3.0	3.5
Nov'24	2.5	2.8	3.0	3.2	2.7	3.1	3.3	3.6
Dec'24	2.6	3.1	3.3	3.5	2.4	2.8	3.0	3.2
Jan'25	2.5	3.1	3.3	3.5	2.1	2.6	2.8	3.0
Feb'25	2.2	2.6	2.9	3.1	2.0	2.3	2.6	3.0
Mar'25	2.6	3.0	3.1	3.4	3.0	3.3	3.4	3.7



❖ COD of Marine Water varied between 11.8 to 14.0 mg/l

Month	Ist Week				2nd Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	12.8	12.4	12.5	13.3	12.5	12.1	12.2	13.0
Nov'24	13.3	13.1	13.5	14.0	13.0	12.7	13.2	13.6
Dec'24	13.1	12.6	13.0	13.5	13.5	13.0	13.4	13.9
Jan'25	13.3	12.7	13.0	13.5	13.5	13.0	13.3	14.0
Feb'25	12.7	12.5	13.0	13.7	13.0	12.8	13.4	14.0
Mar'25	12.5	12.3	12.8	13.5	13.0	12.7	13.4	14.0

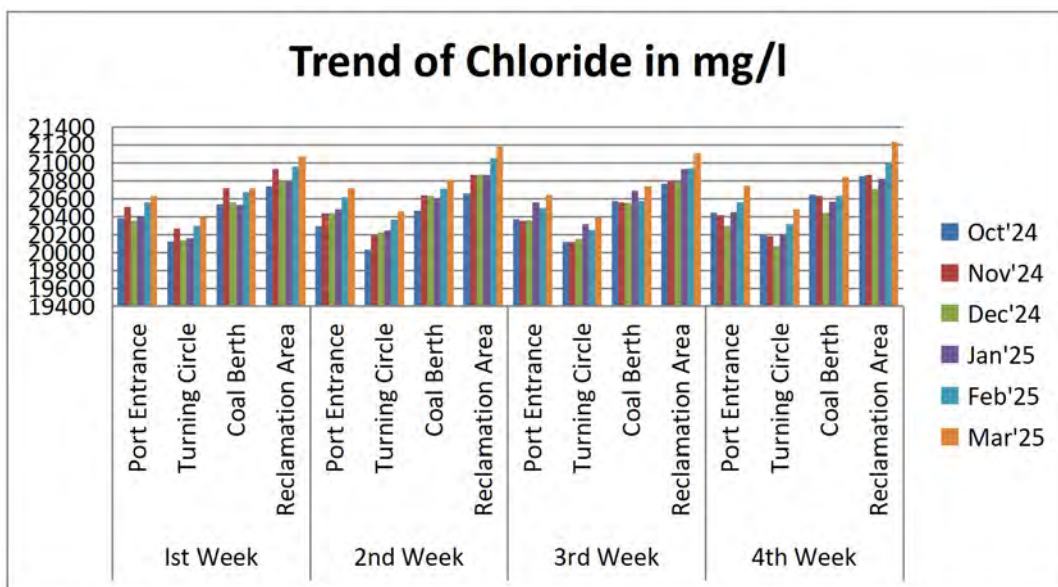
Month	3rd Week				4th Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	12.8	12.4	12.7	13.4	13.0	12.8	13.0	13.8
Nov'24	12.6	12.4	12.8	13.3	13.0	12.8	13.2	13.6
Dec'24	13.2	12.7	13.0	13.5	13.0	12.4	12.7	13.1
Jan'25	13.0	12.7	13.1	13.6	12.4	12.1	12.6	13.2
Feb'25	12.5	12.2	13.0	13.4	12.1	11.8	12.4	13.0
Mar'25	12.8	12.5	13.0	13.5	13.3	13.0	13.5	13.9



❖ Potassium Concentration in Marine water varied between 247 to 371 mg/l

Month	Ist Week				2nd Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	276	259	290	310	270	252	283	302
Nov'24	298	281	310	327	290	276	302	316
Dec'24	298	281	310	327	290	275	301	327
Jan'25	270	256	283	298	283	269	295	312
Feb'25	286	278	304	316	298	291	317	330
Mar'25	307	298	326	338	325	314	349	360

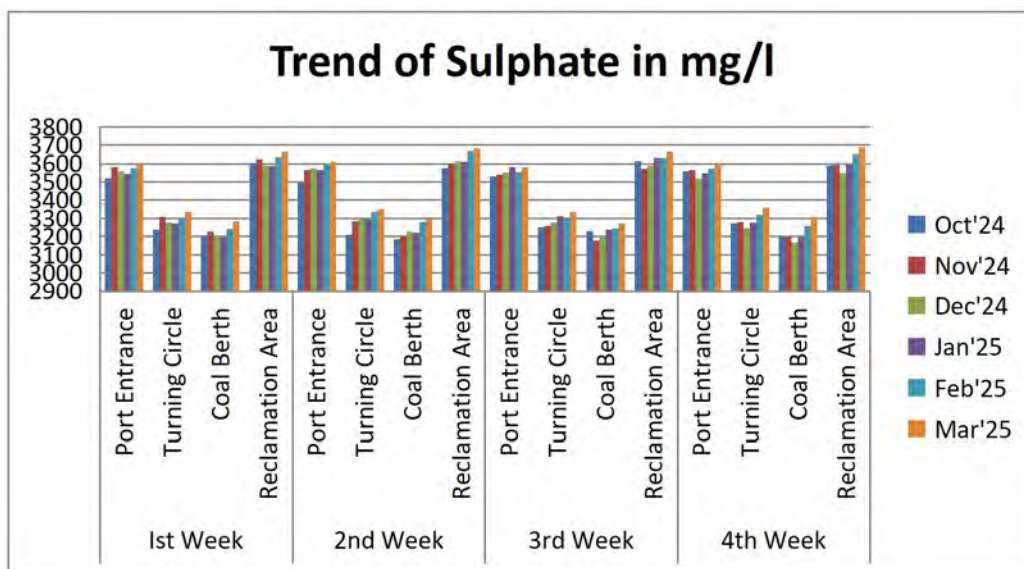
Month	3rd Week				4th Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	281	260	289	309	286	267	295	315
Nov'24	281	263	291	304	288	271	300	315
Dec'24	276	260	287	305	262	247	271	290
Jan'25	298	286	310	330	280	271	296	309
Feb'25	282	276	300	311	289	283	310	317
Mar'25	318	302	332	349	336	321	355	371



❖ Chloride concentration in Marine water varied between 20033 to 21227 mg/l

Month	Ist Week				2nd Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	20382	20127	20542	20735	20297	20033	20469	20659
Nov'24	20512	20270	20714	20933	20438	20198	20641	20867
Dec'24	20356	20143	20562	20794	20442	20227	20632	20870
Jan'25	20410	20162	20531	20789	20485	20248	20610	20863
Feb'25	20563	20297	20671	20962	20620	20368	20708	21054
Mar'25	20632	20389	20716	21073	20714	20463	20807	21178

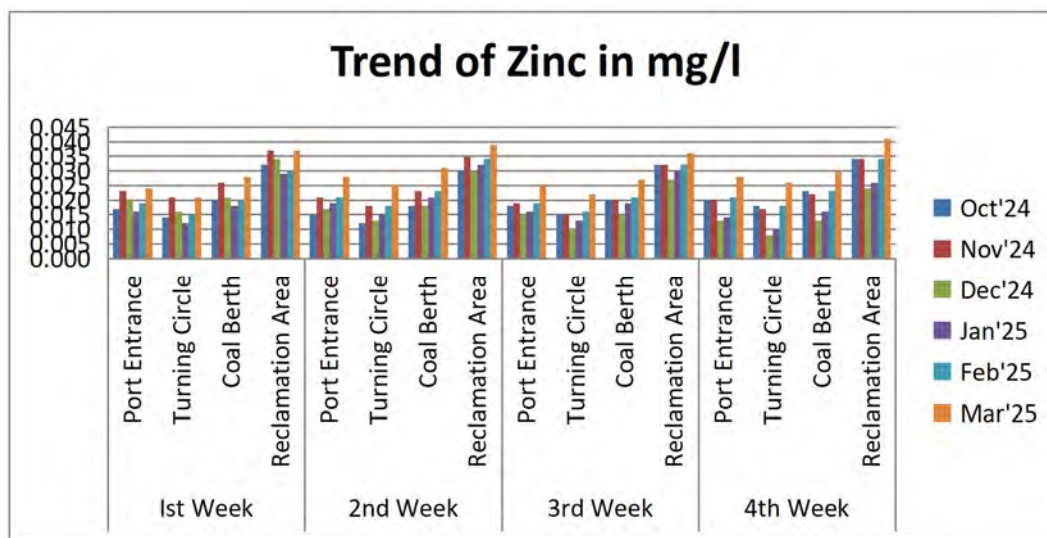
Month	3rd Week				4th Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	20373	20117	20573	20769	20449	20199	20649	20851
Nov'24	20355	20122	20562	20798	20417	20180	20629	20869
Dec'24	20362	20158	20550	20787	20296	20074	20450	20708
Jan'25	20561	20315	20687	20932	20451	20203	20566	20826
Feb'25	20496	20258	20576	20936	20564	20316	20635	21004
Mar'25	20649	20389	20739	21106	20745	20482	20846	21227



❖ Sulphate concentration in Marine water varied between 3167 to 3687 mg/l

Month	Ist Week				2nd Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	3519	3237	3208	3604	3495	3211	3184	3576
Nov'24	3583	3308	3229	3624	3564	3284	3202	3602
Dec'24	3559	3278	3204	3590	3576	3294	3227	3613
Jan'25	3543	3272	3196	3586	3567	3296	3220	3610
Feb'25	3575	3302	3240	3636	3603	3338	3281	3669
Mar'25	3596	3337	3283	3665	3610	3352	3296	3681

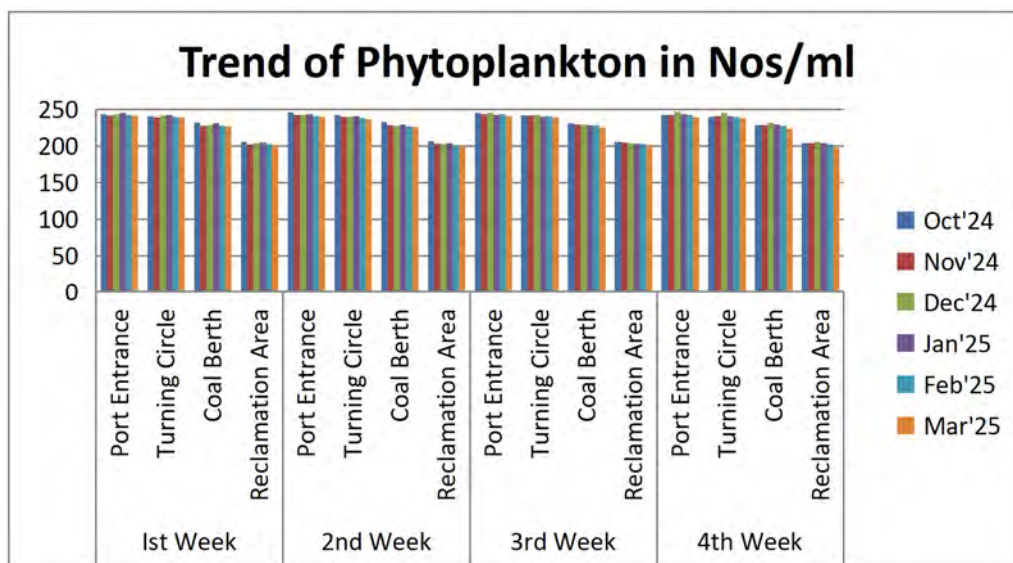
Month	3rd Week				4th Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	3531	3253	3232	3614	3557	3275	3200	3590
Nov'24	3542	3258	3177	3574	3565	3281	3198	3594
Dec'24	3550	3276	3203	3591	3521	3245	3167	3546
Jan'25	3583	3312	3238	3632	3547	3276	3197	3597
Feb'25	3555	3301	3244	3632	3572	3318	3260	3649
Mar'25	3578	3336	3273	3664	3593	3359	3310	3687



❖ Zinc concentration in Marine water varied between 0.008 to 0.041 mg/l

Month	Ist Week				2nd Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	0.017	0.014	0.020	0.032	0.015	0.012	0.018	0.030
Nov'24	0.023	0.021	0.026	0.037	0.021	0.018	0.023	0.035
Dec'24	0.020	0.016	0.021	0.034	0.017	0.013	0.018	0.030
Jan'25	0.016	0.012	0.018	0.029	0.019	0.015	0.021	0.032
Feb'25	0.019	0.015	0.020	0.030	0.021	0.018	0.023	0.034
Mar'25	0.024	0.021	0.028	0.037	0.028	0.025	0.031	0.039

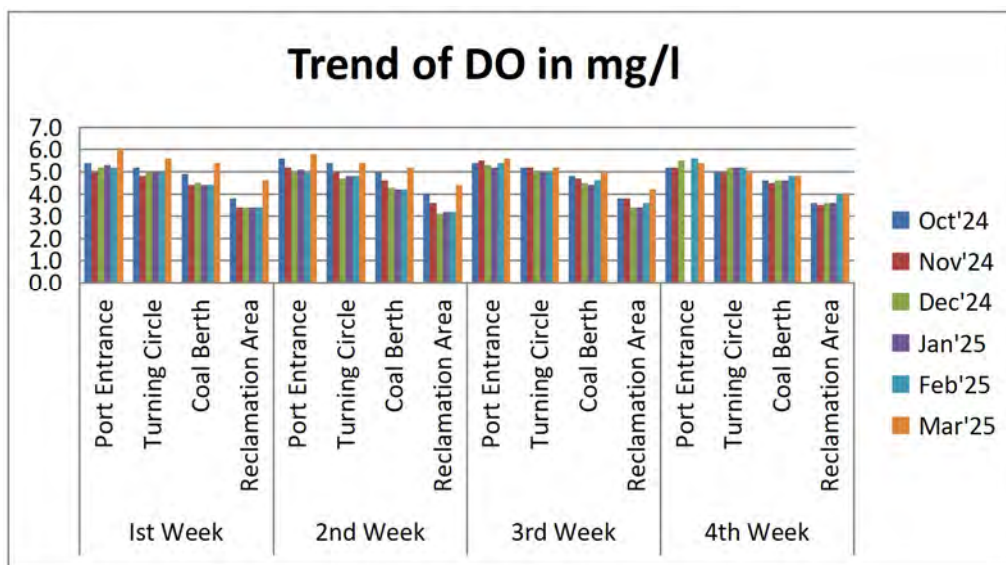
Month	3rd Week				4th Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	0.018	0.015	0.020	0.032	0.020	0.018	0.023	0.034
Nov'24	0.019	0.015	0.020	0.032	0.020	0.017	0.022	0.034
Dec'24	0.015	0.010	0.015	0.027	0.013	0.008	0.013	0.024
Jan'25	0.016	0.013	0.019	0.030	0.014	0.010	0.016	0.026
Feb'25	0.019	0.016	0.021	0.032	0.021	0.018	0.023	0.034
Mar'25	0.025	0.022	0.027	0.036	0.028	0.026	0.030	0.041



❖ Phytoplankton in Marine water varied between 198 to 247 No./ml

Month	Ist Week				2nd Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	244	241	232	206	246	243	233	207
Nov'24	242	239	228	202	243	240	229	203
Dec'24	244	242	229	204	243	240	228	203
Jan'25	245	243	231	205	244	241	230	204
Feb'25	243	240	228	203	241	238	227	201
Mar'25	242	239	227	201	240	237	226	200

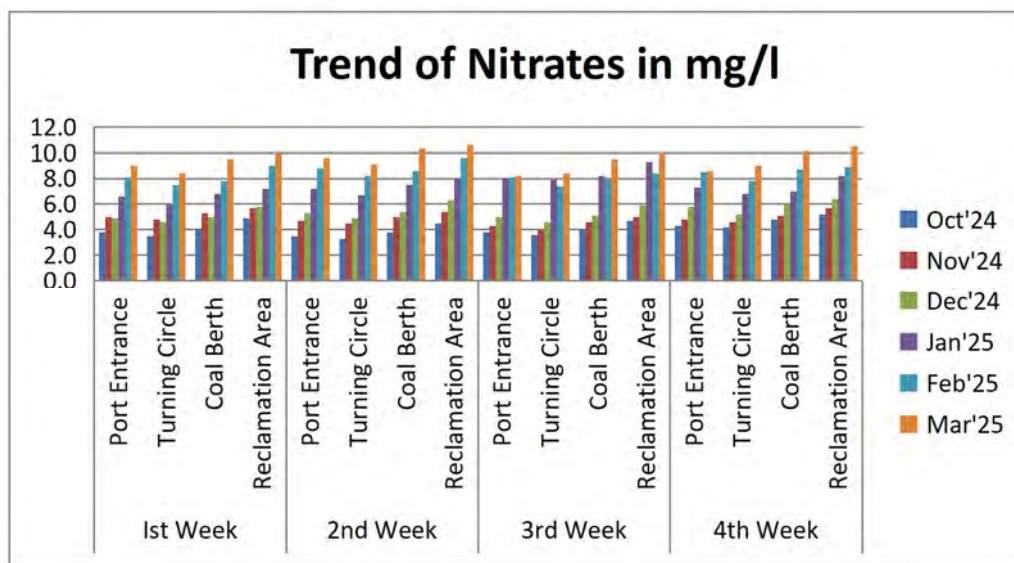
Month	3rd Week				4th Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	245	242	231	206	243	240	229	204
Nov'24	244	242	230	205	243	241	229	204
Dec'24	245	243	230	204	247	245	232	206
Jan'25	243	240	229	203	244	241	230	204
Feb'25	244	241	229	203	243	240	228	202
Mar'25	241	239	225	201	239	238	223	198



❖ DO in Marine water varied between 3.1 to 6.0 mg/l

Month	Ist Week				2nd Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	5.4	5.2	4.9	3.8	5.6	5.4	5.0	4.0
Nov'24	5.0	4.8	4.4	3.4	5.2	5.0	4.6	3.6
Dec'24	5.2	5.0	4.5	3.4	5.0	4.7	4.3	3.1
Jan'25	5.3	5.0	4.4	3.4	5.1	4.8	4.2	3.2
Feb'25	5.2	5.0	4.4	3.4	5.0	4.8	4.2	3.2
Mar'25	6.0	5.6	5.4	4.6	5.8	5.4	5.2	4.4

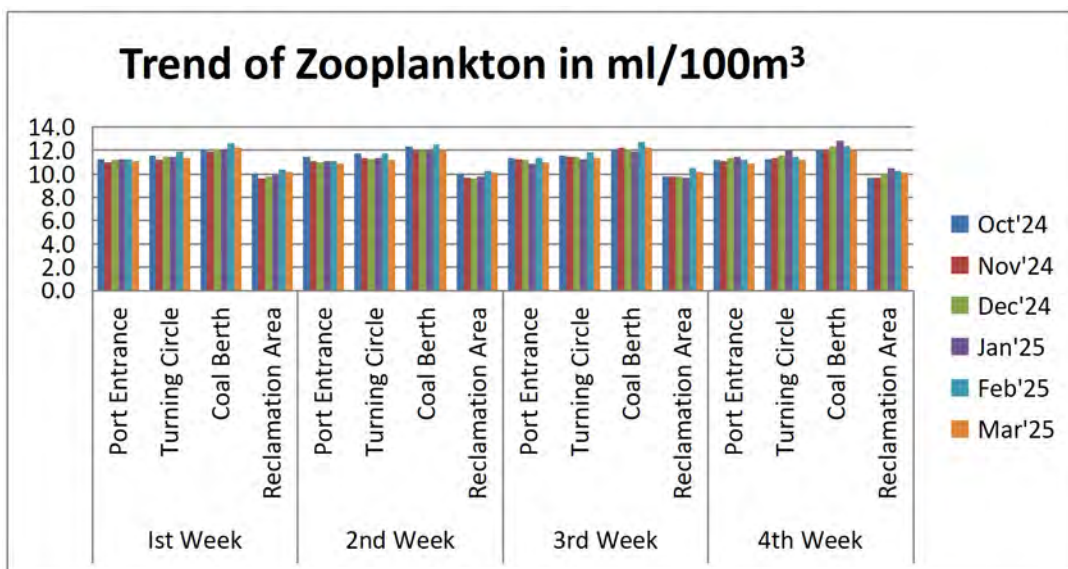
Month	3rd Week				4th Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	5.4	5.2	4.8	3.8	5.2	5.0	4.6	3.6
Nov'24	5.5	5.2	4.7	3.8	5.2	5.0	4.5	3.5
Dec'24	5.3	5.0	4.5	3.4	5.5	5.2	4.6	3.6
Jan'25	5.2	5.0	4.4	3.4	s	5.2	4.6	3.6
Feb'25	5.4	5.0	4.6	3.6	5.6	5.2	4.8	4.0
Mar'25	5.6	5.2	5.0	4.2	5.4	5.0	4.8	4.0



❖ Nitrates in Marine water varied between 3.3 to 10.6 mg/l

Month	Ist Week				2nd Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	3.8	3.5	4.1	4.9	3.5	3.3	3.8	4.5
Nov'24	5.0	4.8	5.3	5.7	4.7	4.5	5.0	5.4
Dec'24	4.9	4.6	5.0	5.8	5.3	4.9	5.4	6.3
Jan'25	6.6	6.0	6.8	7.2	7.2	6.7	7.5	8.0
Feb'25	8.1	7.5	7.8	9.0	8.8	8.2	8.6	9.6
Mar'25	9.0	8.4	9.5	10.0	9.6	9.1	10.3	10.6

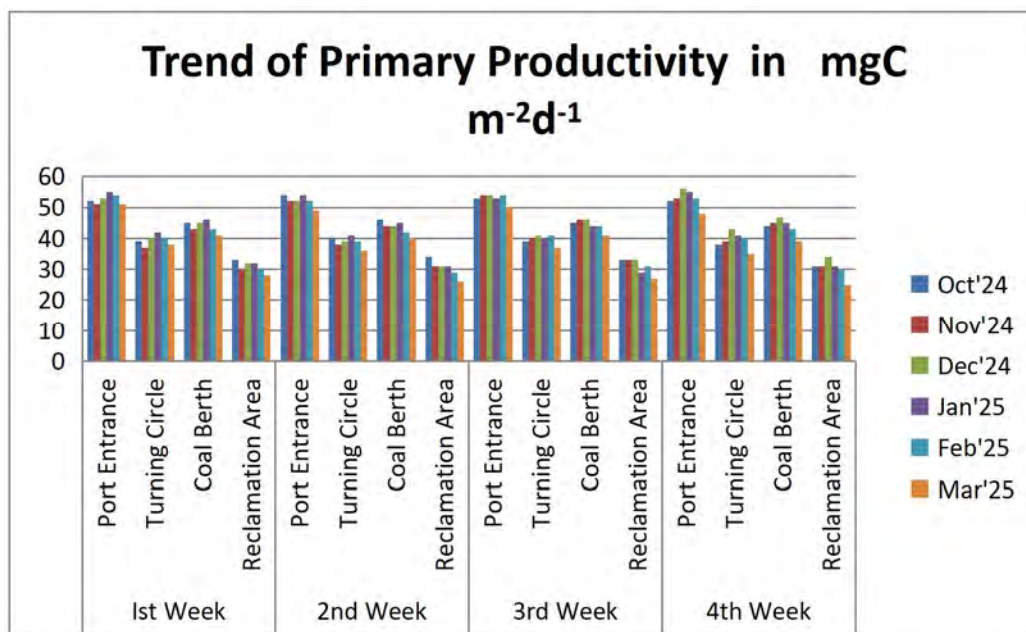
Month	3rd Week				4th Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	3.8	3.6	4.0	4.7	4.3	4.2	4.8	5.2
Nov'24	4.3	4.0	4.6	5.0	4.8	4.6	5.1	5.7
Dec'24	5.0	4.6	5.1	5.9	5.8	5.2	6.0	6.4
Jan'25	8.0	7.9	8.2	9.3	7.3	6.8	7.0	8.2
Feb'25	8.1	7.4	7.9	8.4	8.5	7.8	8.7	8.9
Mar'25	8.2	8.4	9.5	10.0	8.6	9.0	10.1	10.5



❖ Zoo plankton in Marine water varied between 9.6 to 12.8 ml/100m³

Month	Ist Week				2nd Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	11.3	11.6	12.1	10.0	11.5	11.7	12.3	10.0
Nov'24	11.0	11.2	11.9	9.6	11.1	11.4	12.0	9.7
Dec'24	11.2	11.5	12.1	9.8	11.0	11.3	12.0	9.6
Jan'25	11.3	11.5	12.1	9.9	11.1	11.4	12.0	9.8
Feb'25	11.3	11.9	12.6	10.4	11.1	11.7	12.5	10.3
Mar'25	11.1	11.4	12.2	10.2	10.9	11.2	12.0	10.1

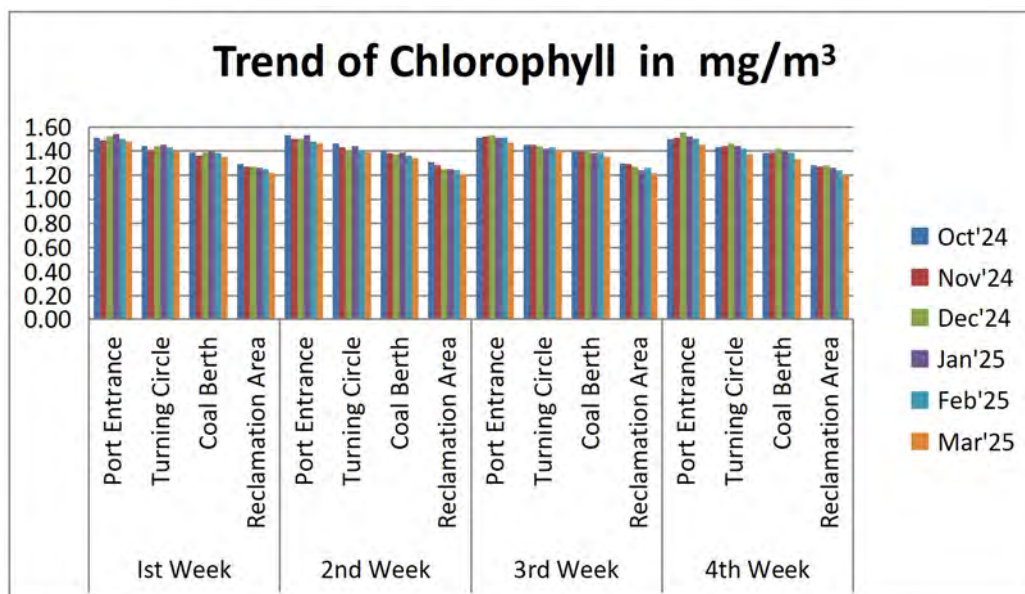
Month	3rd Week				4th Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	11.4	11.6	12.1	9.8	11.2	11.3	12.0	9.7
Nov'24	11.3	11.5	12.2	9.8	11.1	11.4	12.0	9.7
Dec'24	11.2	11.5	12.1	9.8	11.4	11.6	12.3	10.0
Jan'25	10.9	11.3	11.9	9.7	11.5	12.0	12.8	10.5
Feb'25	11.4	11.8	12.7	10.5	11.2	11.5	12.4	10.3
Mar'25	11.0	11.4	12.2	10.2	10.9	11.2	12.0	10.1



❖ Primary Productivity in Marine water varied between 25 to 56 mg m⁻²d⁻¹

Month	Ist Week				2nd Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	52	39	45	33	54	40	46	34
Nov'24	51	37	43	30	52	38	44	31
Dec'24	53	40	45	32	52	39	44	31
Jan'25	55	42	46	32	54	41	45	31
Feb'25	54	40	43	30	52	39	42	29
Mar'25	51	38	41	28	49	36	40	26

Month	3rd Week				4th Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	53	39	45	33	52	38	44	31
Nov'24	54	40	46	33	53	39	45	31
Dec'24	54	41	46	33	56	43	47	34
Jan'25	53	40	44	29	55	41	45	31
Feb'25	54	41	44	31	53	40	43	30
Mar'25	50	37	41	27	48	35	39	25



❖ Chlorophyll in Marine water varied between 1.2 to 1.55 mg/m³

Month	Ist Week				2nd Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	1.51	1.44	1.39	1.29	1.53	1.46	1.41	1.31
Nov'24	1.49	1.41	1.36	1.27	1.50	1.43	1.38	1.28
Dec'24	1.52	1.44	1.39	1.27	1.50	1.41	1.37	1.25
Jan'25	1.54	1.45	1.40	1.26	1.53	1.44	1.39	1.25
Feb'25	1.50	1.43	1.38	1.25	1.48	1.41	1.36	1.24
Mar'25	1.48	1.40	1.35	1.22	1.46	1.39	1.34	1.21

Month	3rd Week				4th Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	1.51	1.45	1.40	1.30	1.50	1.43	1.38	1.28
Nov'24	1.52	1.45	1.40	1.29	1.51	1.44	1.39	1.27
Dec'24	1.53	1.44	1.40	1.27	1.55	1.46	1.42	1.28
Jan'25	1.51	1.42	1.38	1.24	1.52	1.44	1.40	1.26
Feb'25	1.51	1.43	1.39	1.26	1.50	1.42	1.38	1.24
Mar'25	1.47	1.40	1.35	1.22	1.45	1.37	1.33	1.20

Summary of Marine water quality results for six months of period Oct 24 – March 25

- pH - values are in the range 7.57 to 8.44
- BOD - values are in the range 2.0 to 3.9 mg/l
- COD - values are in the range 11.8 to 14.0 mg/l
- Potassium - values are in the range 247 to 371 mg/l
- Chloride - values are in the range 20033 to 21227 mg/l
- Sulphates - values are in the range 3167 to 3687 mg/l
- Zinc - values are in the range 0.008 to 0.041 mg/l
- Phytoplankton - values are in the range 198 to 247 No./ml
- DO - values are in the range 3.1 to 6.0 mg/l
- Nitrates - values are in the range 3.3 to 10.6 mg/l
- Zoo plankton - values are in the range 9.6 to 12.8 ml/100m³
- Primary productivity - values are in the range 25 to 56 mgC m⁻²d⁻¹
- Chlorophyll - values are in the range 1.20 to 1.55 mg/m³

4.5 Marine Water Turbidity

Marine water turbidity is carried out on one day every week at each of the four locations of Marine Water quality sampling (MT1, MT2, MT3 and MT4). Turbidity levels are monitored during Low Tide, Medium Tide and High Tide.

MARINE TURBIDITY MONITORING LOCATIONS

Sampling Code	Name of the Location
MT1	Coal Berth
MT2	Turning circle
MT3	Approach channel
MT4	Reclamation Area (Mutable)

4.5.1 Marine Deep Sea Turbidity

Marine water turbidity is carried out in the deep water i.e., at the dredged material disposal area on one day every month at three locations.

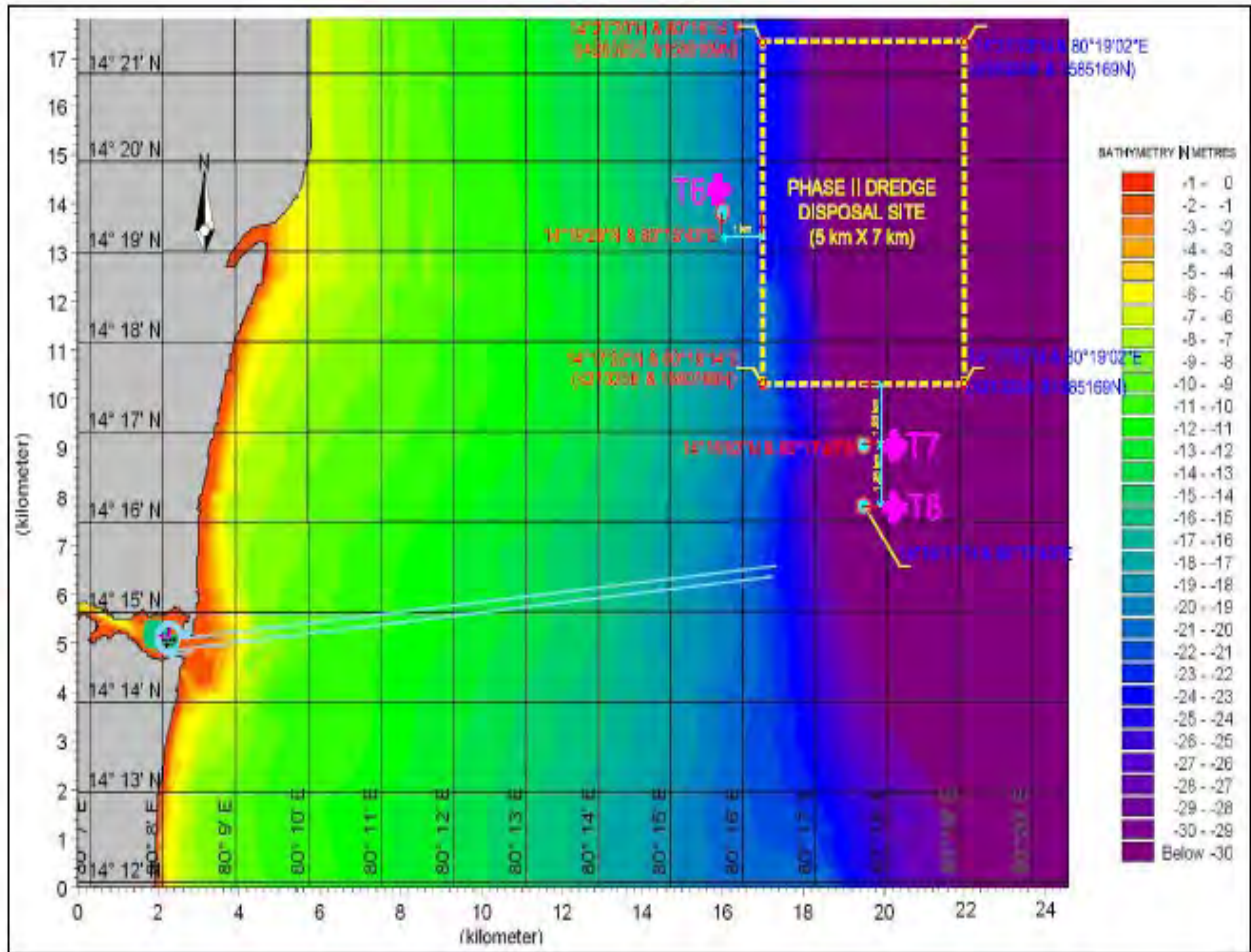
4.5.2 Sampling Locations

Turbidity levels are monitored during Low Tide, Medium Tide and High Tide. Monitoring locations listed below and **Figure–5**.

MARINE DEEP SEA TURBIDITY MONITORING LOCATIONS

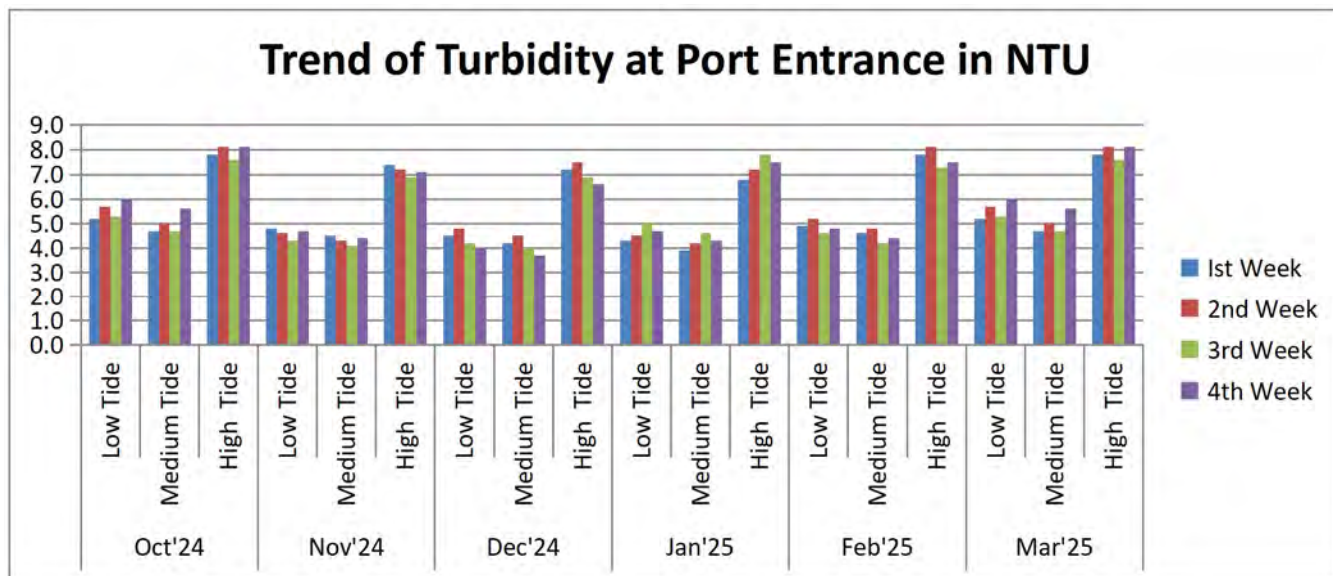
Location Code	Geographical Co-ordinates
DS1	14 ⁰ 19'26"N ; 80 ⁰ 15'43"E
DS2	14 ⁰ 16'52"N ; 80 ⁰ 17'40"E
DS3	14 ⁰ 16'11"N ; 80 ⁰ 17'40"E

FIGURE-5
KRISHNAPATNAM PORT DEEP SEA MONITORING LOCATIONS

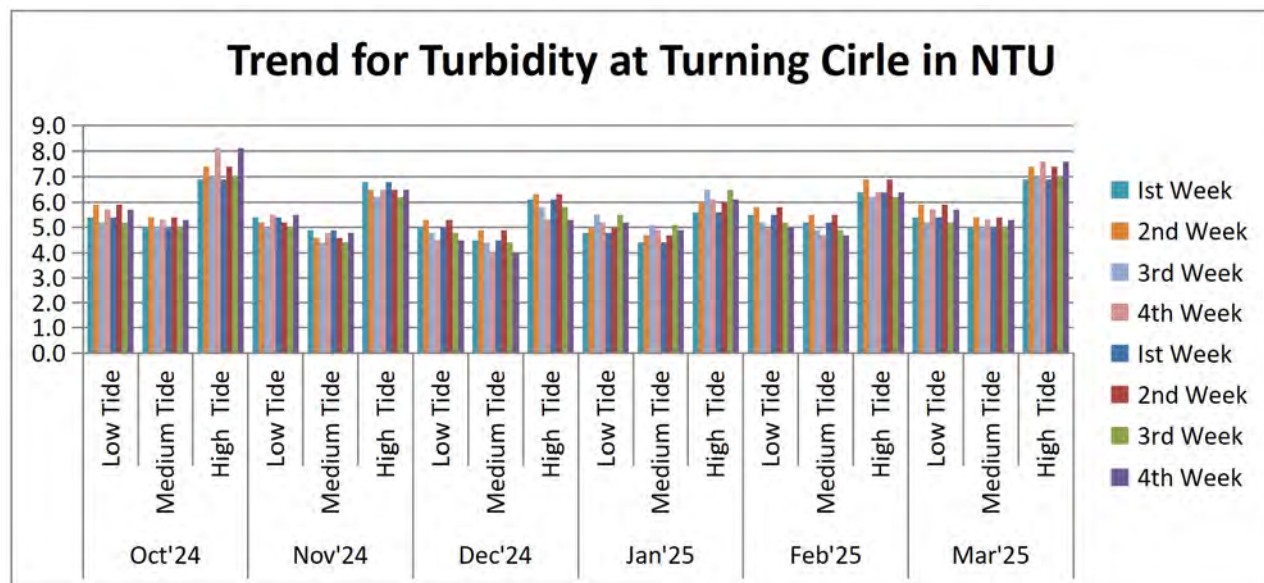


CODE	PARAMETERS	CO-ORDINATES OF MONITORING STATION
+	Turbidity Monitoring	
T6		14°19'26"N & 80°15'43"E
T7		14°16'52"N & 80°17'40"E
T8		14°16'11"N & 80°17'40"E

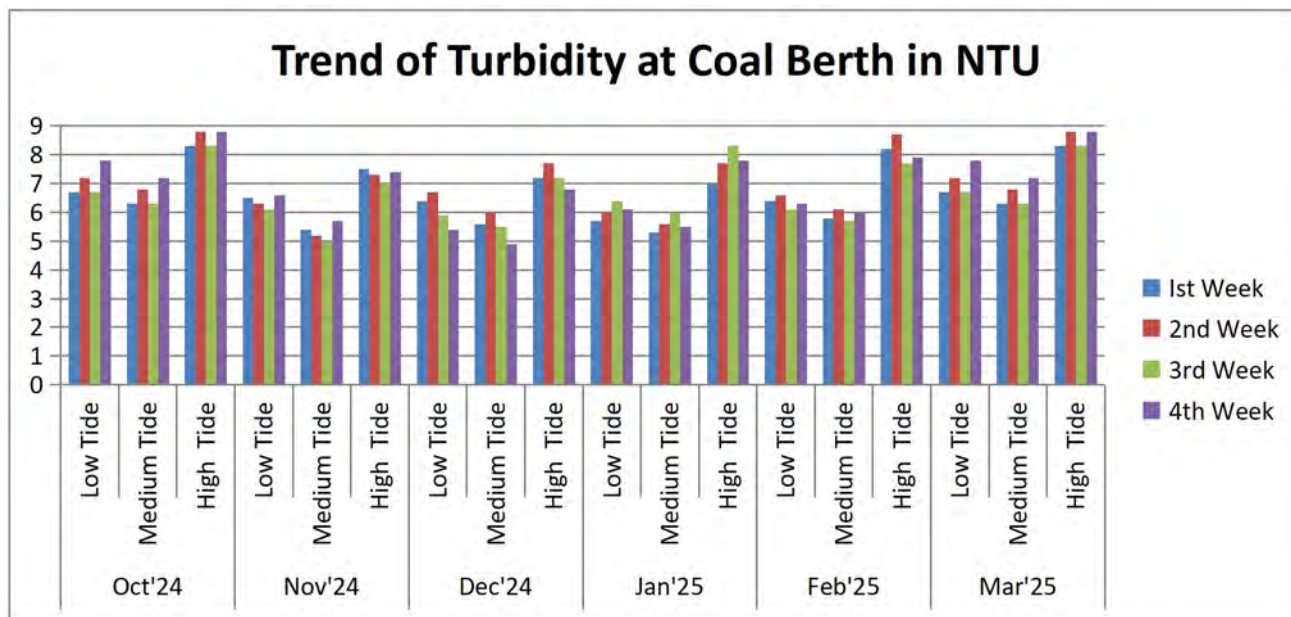
Status of Turbidity in Marine Water



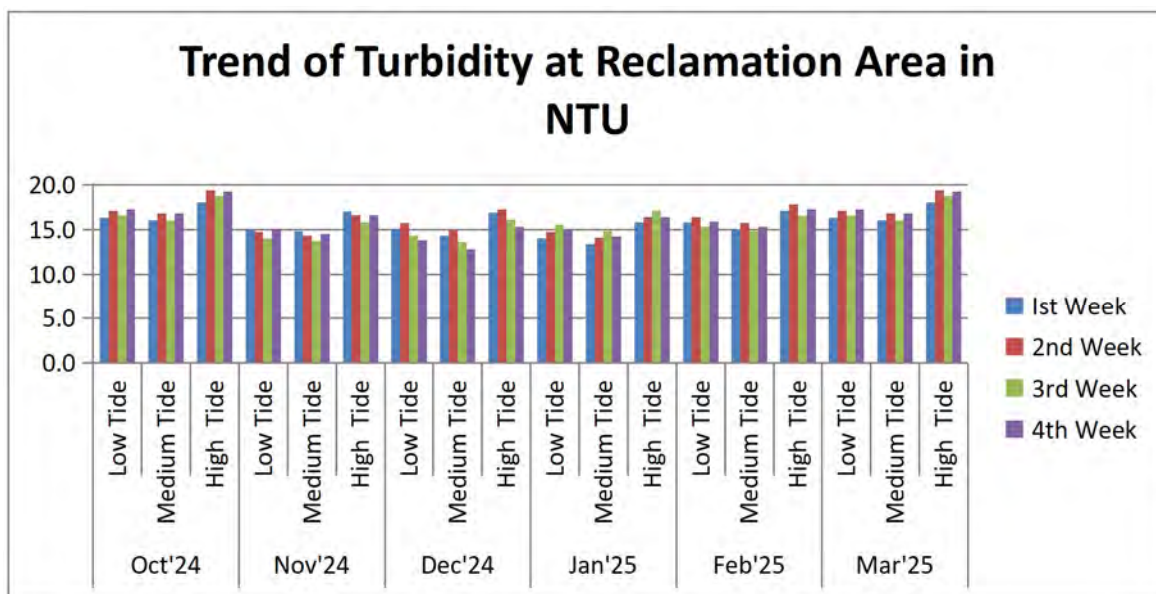
Month		Ist Week	2nd Week	3rd Week	4th Week	Month		Ist Week	2nd Week	3rd Week	4th Week
Oct'24	Low Tide	5.2	5.7	5.3	6.0	Jan'25	Low Tide	4.3	4.5	5	4.7
	Medium Tide	4.7	5.0	4.7	5.6		Medium Tide	3.9	4.2	4.6	4.3
	High Tide	7.8	8.1	7.6	8.1		High Tide	6.8	7.2	7.8	7.5
Nov'24	Low Tide	4.8	4.6	4.3	4.7	Feb'25	Low Tide	4.9	5.2	4.6	4.8
	Medium Tide	4.5	4.3	4.1	4.4		Medium Tide	4.6	4.8	4.2	4.4
	High Tide	7.4	7.2	6.9	7.1		High Tide	7.8	8.1	7.3	7.5
Dec'24	Low Tide	4.5	4.8	4.2	4	Mar'25	Low Tide	5.2	5.7	5.3	6
	Medium Tide	4.2	4.5	4	3.7		Medium Tide	4.7	5	4.7	5.6
	High Tide	7.2	7.5	6.9	6.6		High Tide	7.8	8.1	7.6	8.1



Month		1st Week	2nd Week	3rd Week	4th Week	Month		1st Week	2nd Week	3rd Week	4th Week
Oct'24	Low Tide	5.4	5.9	5.2	5.7	Jan'25	Low Tide	4.8	5.0	5.5	5.2
	Medium Tide	5.0	5.4	5.0	5.3		Medium Tide	4.4	4.7	5.1	4.9
	High Tide	6.9	7.4	7.0	8.1		High Tide	5.6	6.0	6.5	6.1
Nov'24	Low Tide	5.4	5.2	5.0	5.5	Feb'25	Low Tide	5.5	5.8	5.2	5.0
	Medium Tide	4.9	4.6	4.4	4.8		Medium Tide	5.2	5.5	4.9	4.7
	High Tide	6.8	6.5	6.2	6.5		High Tide	6.4	6.9	6.2	6.4
Dec'24	Low Tide	5.0	5.3	4.8	4.5	Mar'25	Low Tide	5.4	5.9	5.2	5.7
	Medium Tide	4.5	4.9	4.4	4.0		Medium Tide	5.0	5.4	5.0	5.3
	High Tide	6.1	6.3	5.8	5.3		High Tide	6.9	7.4	7.0	7.6



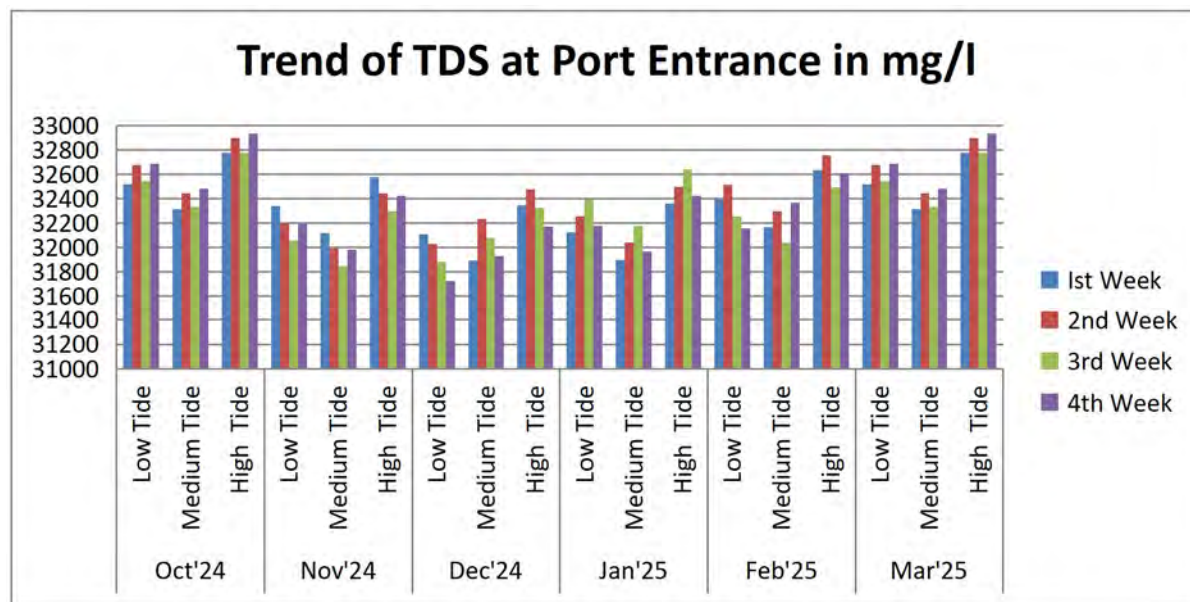
Month		Ist Week	2nd Week	3rd Week	4th Week	Month		Ist Week	2nd Week	3rd Week	4th Week
Oct'24	Low Tide	6.7	7.2	6.7	7.8	Jan'25	Low Tide	5.7	6.0	6.4	6.1
	Medium Tide	6.3	6.8	6.3	7.2		Medium Tide	5.3	5.6	6.0	5.5
	High Tide	8.3	8.8	8.3	8.8		High Tide	7.0	7.7	8.3	7.8
Nov'24	Low Tide	6.5	6.3	6.1	6.6	Feb'25	Low Tide	6.4	6.6	6.1	6.3
	Medium Tide	5.4	5.2	5.0	5.7		Medium Tide	5.8	6.1	5.7	6.0
	High Tide	7.5	7.3	7.0	7.4		High Tide	8.2	8.7	7.7	7.9
Dec'24	Low Tide	6.4	6.7	5.9	5.4	Mar'25	Low Tide	6.7	7.2	6.7	7.8
	Medium Tide	5.6	6.0	5.5	4.9		Medium Tide	6.3	6.8	6.3	7.2
	High Tide	7.2	7.7	7.2	6.8		High Tide	8.3	8.8	8.3	8.8



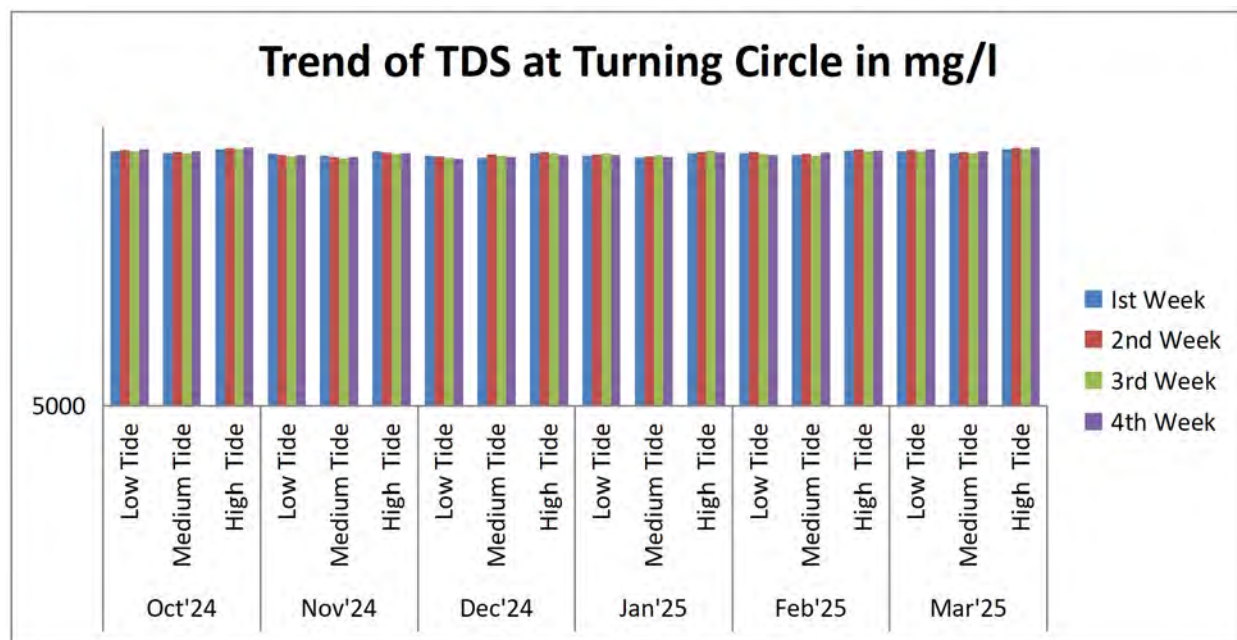
Month		Ist Week	2nd Week	3rd Week	4th Week	Month		Ist Week	2nd Week	3rd Week	4th Week
Oct'24	Low Tide	16.3	17.1	16.6	17.2	Jan'25	Low Tide	14.0	14.7	15.5	15.0
	Medium Tide	16.0	16.8	16.0	16.8		Medium Tide	13.4	14.1	14.8	14.2
	High Tide	18.0	19.4	18.7	19.2		High Tide	15.8	16.4	17.1	16.4
Nov'24	Low Tide	15.0	14.7	14.0	15.1	Feb'25	Low Tide	15.8	16.4	15.3	15.9
	Medium Tide	14.8	14.3	13.7	14.5		Medium Tide	15.0	15.7	14.8	15.3
	High Tide	17.0	16.6	15.8	16.6		High Tide	17.1	17.8	16.5	17.2
Dec'24	Low Tide	15.1	15.7	14.3	13.8	Mar'25	Low Tide	16.3	17.1	16.6	17.2
	Medium Tide	14.3	14.9	13.6	12.8		Medium Tide	16.0	16.8	16.0	16.8
	High Tide	16.9	17.2	16.1	15.3		High Tide	18.0	19.4	18.7	19.2

Summary of Turbidity: Coal berth varied between 4.9 to 8.8 NTU: Turning circle varied between 4.0 to 8.1 NTU and Approach channel varied between 3.7 to 8.1 NTU: Reclamation Area varied between 12.8 to 19.4 NTU

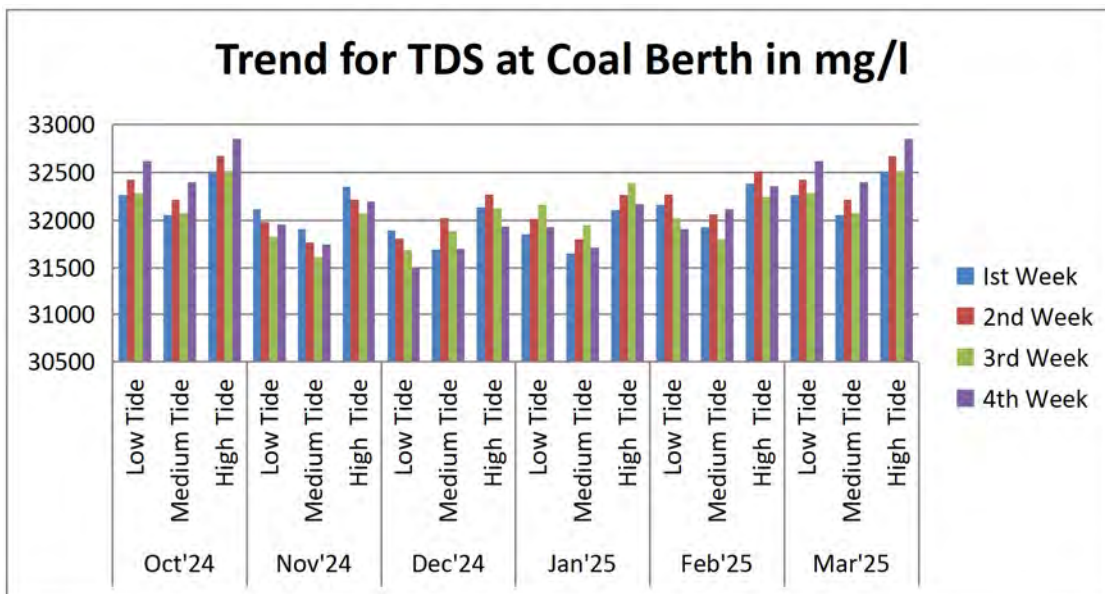
Status of Total Dissolved Solids in Marine Water



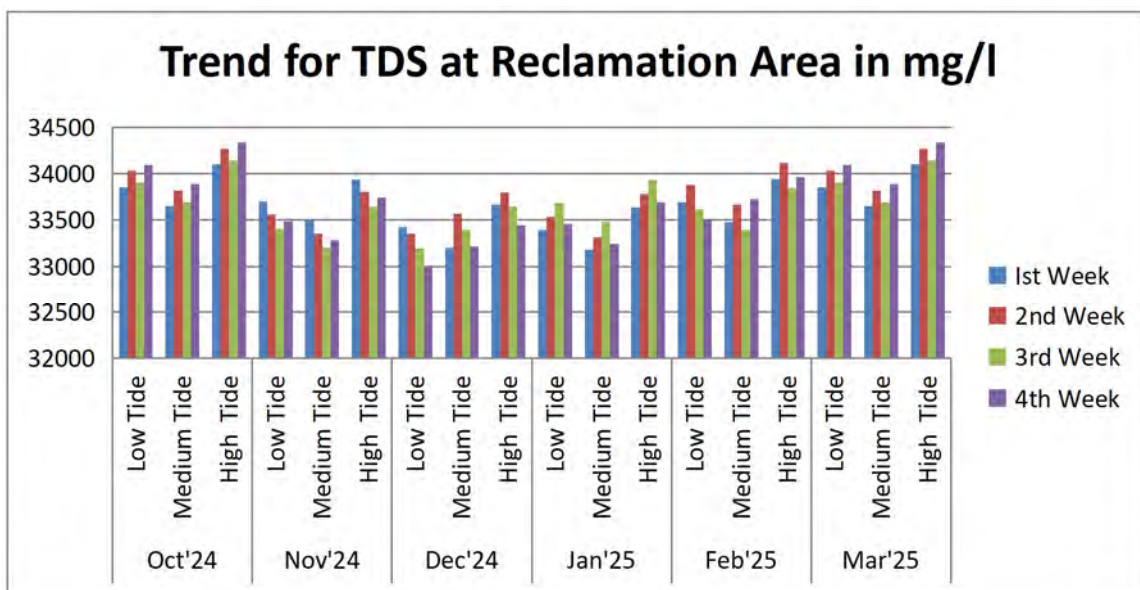
Month		Ist Week	2nd Week	3rd Week	4th Week	Month		Ist Week	2nd Week	3rd Week	4th Week
Oct'24	Low Tide	32520	32676	32545	32691	Jan'25	Low Tide	32126	32258	32396	32178
	Medium Tide	32316	32448	32336	32485		Medium Tide	31898	32042	32178	31968
	High Tide	32780	32898	32778	32935		High Tide	32362	32498	32642	32425
Nov'24	Low Tide	32341	32205	32058	32196	Feb'25	Low Tide	32396	32516	32258	32159
	Medium Tide	32120	31996	31846	31985		Medium Tide	32170	32297	32043	32369
	High Tide	32578	32449	32297	32428		High Tide	32634	32758	32493	32610
Dec'24	Low Tide	32112	32032	31883	31725	Mar'25	Low Tide	32520	32676	32545	32691
	Medium Tide	31893	32236	32081	31930		Medium Tide	32316	32448	32336	32485
	High Tide	32349	32476	32326	32175		High Tide	32780	32898	32778	32935



Month		Ist Week	2nd Week	3rd Week	4th Week	Month		Ist Week	2nd Week	3rd Week	4th Week
Oct'24	Low Tide	32378	32518	32396	32589	Jan'25	Low Tide	31945	32095	32235	32013
	Medium Tide	32175	32310	32185	32379		Medium Tide	31721	31878	32020	31796
	High Tide	32615	32752	32626	32828		High Tide	32184	32337	32475	32252
Nov'24	Low Tide	32164	32029	31867	31988	Feb'25	Low Tide	32224	32372	32145	32028
	Medium Tide	31948	31817	31662	31782		Medium Tide	31998	32156	31928	32238
	High Tide	32396	32268	32114	32235		High Tide	32459	32610	32375	32478
Dec'24	Low Tide	31940	31872	31726	31564	Mar'25	Low Tide	32378	32518	32396	32589
	Medium Tide	31725	32078	31945	31778		Medium Tide	32175	32310	32186	32379
	High Tide	32180	32319	32181	32012		High Tide	32615	32752	32626	32828



Month		Ist Week	2nd Week	3rd Week	4th Week	Month		Ist Week	2nd Week	3rd Week	4th Week
Oct'24	Low Tide	32263	32425	32284	32618	Jan'25	Low Tide	31856	32012	32165	31924
	Medium Tide	32058	32216	32074	32400		Medium Tide	31652	31797	31947	31708
	High Tide	32512	32671	32519	32850		High Tide	32110	32261	32394	32167
Nov'24	Low Tide	32118	31978	31829	31956	Feb'25	Low Tide	32164	32268	32019	31908
	Medium Tide	31909	31768	31612	31745		Medium Tide	31928	32062	31797	32119
	High Tide	32353	32217	32068	32196		High Tide	32387	32516	32247	32358
Dec'24	Low Tide	31891	31806	31684	31488	Mar'25	Low Tide	32263	32425	32284	32618
	Medium Tide	31690	32021	31889	31695		Medium Tide	32058	32216	32074	32400
	High Tide	32138	32268	32124	31936		High Tide	32512	32671	32519	32850

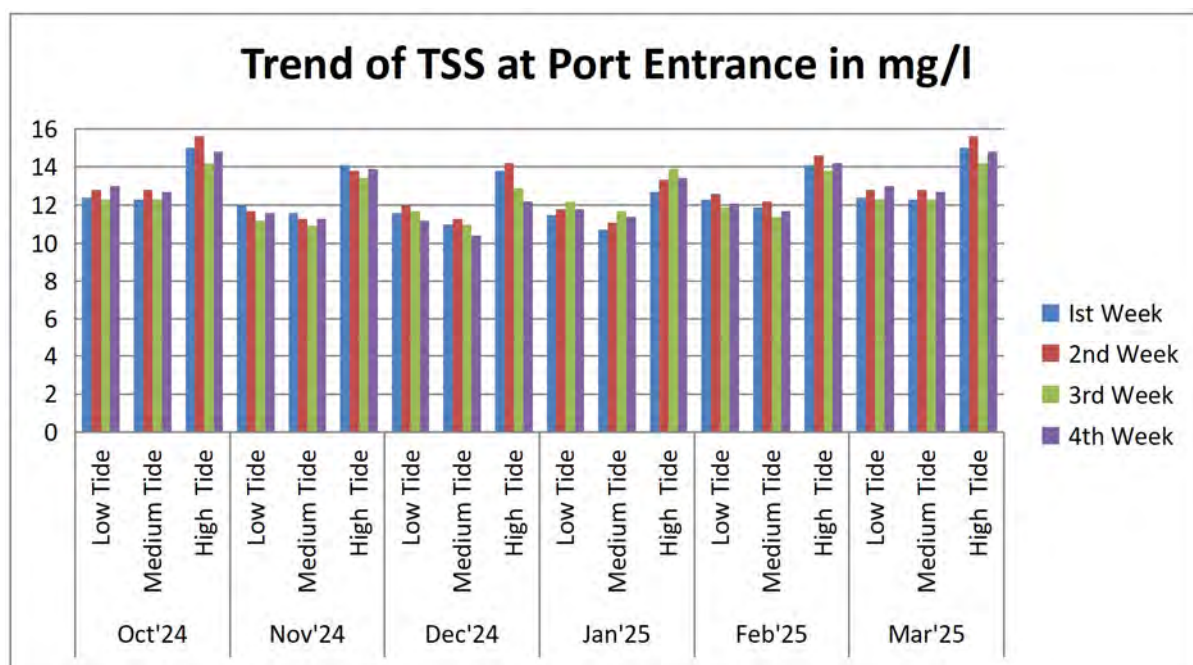


Month		Ist Week	2nd Week	3rd Week	4th Week	Month		Ist Week	2nd Week	3rd Week	4th Week
Oct'24	Low Tide	33855	34032	33910	34097	Jan'25	Low Tide	33392	33536	33687	33460
	Medium Tide	33651	33819	33695	33886		Medium Tide	33178	33315	33475	33240
	High Tide	34098	34270	34145	34336		High Tide	33638	33785	33928	33696
Nov'24	Low Tide	33697	33561	33412	33487	Feb'25	Low Tide	33695	33881	33617	33513
	Medium Tide	33489	33356	33205	33285		Medium Tide	33478	33668	33398	33725
	High Tide	33934	33806	33645	33742		High Tide	33945	34112	33848	33963
Dec'24	Low Tide	33420	33356	33192	33006	Mar'25	Low Tide	33855	34032	33910	34097
	Medium Tide	33205	33568	33398	33214		Medium Tide	33651	33819	33695	33886
	High Tide	33662	33799	33642	33446		High Tide	34098	34270	34145	34336

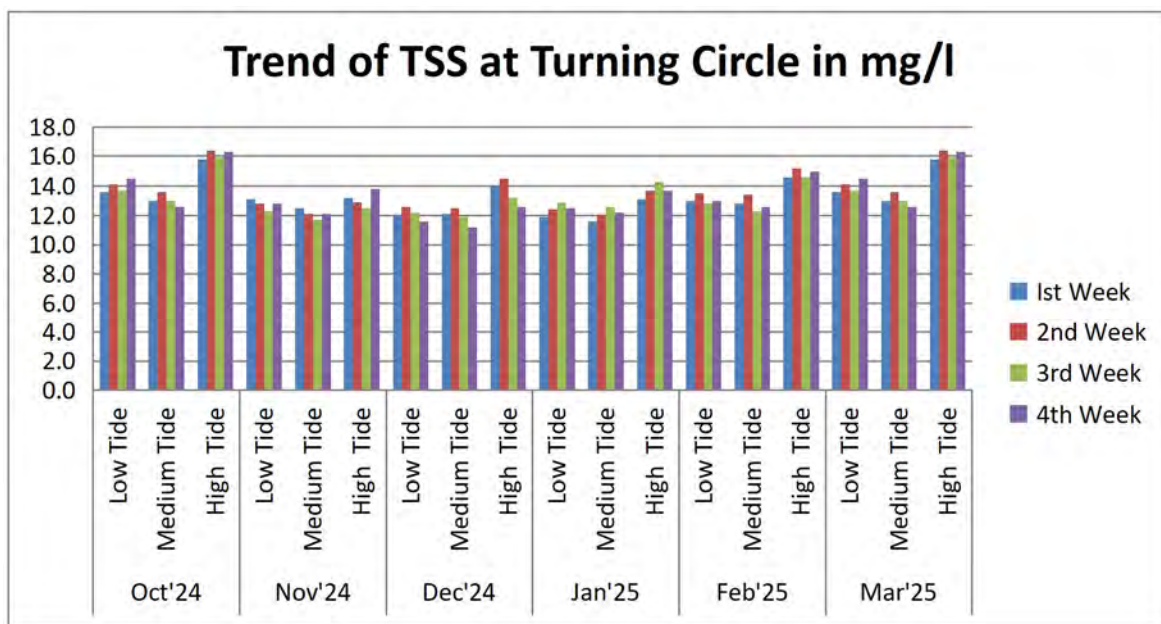
Summary of TDS of Marine water quality results

- ❖ **TDS** - Values are in the range of 31725 to 32935 mg/l at Port Entrance (Approach Channel).
 - Values are in the range of 31564 to 32828 mg/l at Turning Circle
 - Values are in the range of 31488 to 32850 mg/l at Coal Berth
 - Values are in range of 33006 to 34336 at Reclamation Area

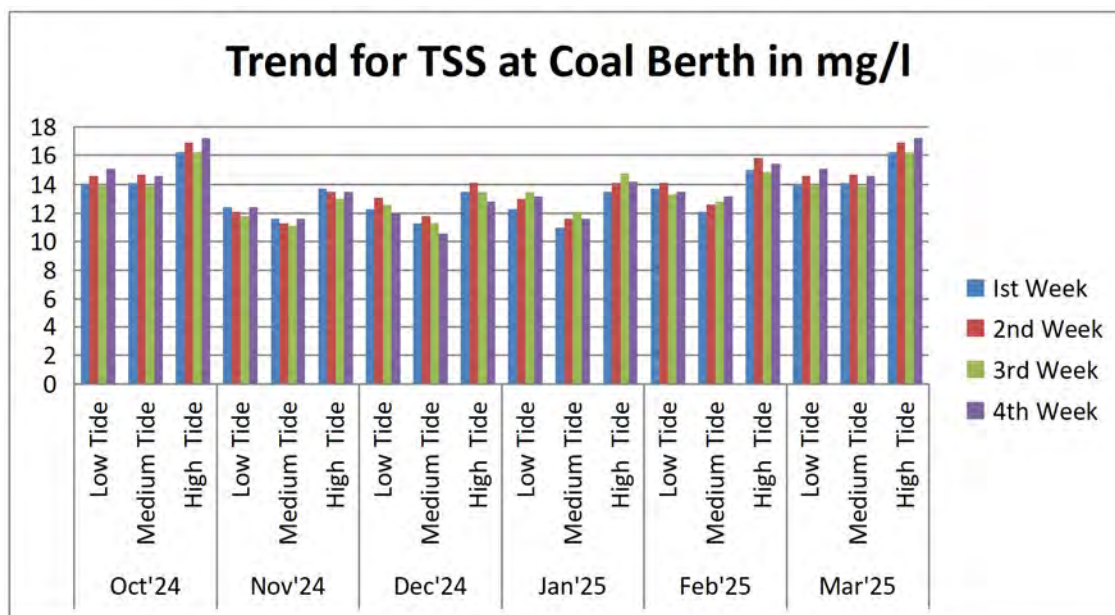
Status of Total Suspended Solids in Marine Water



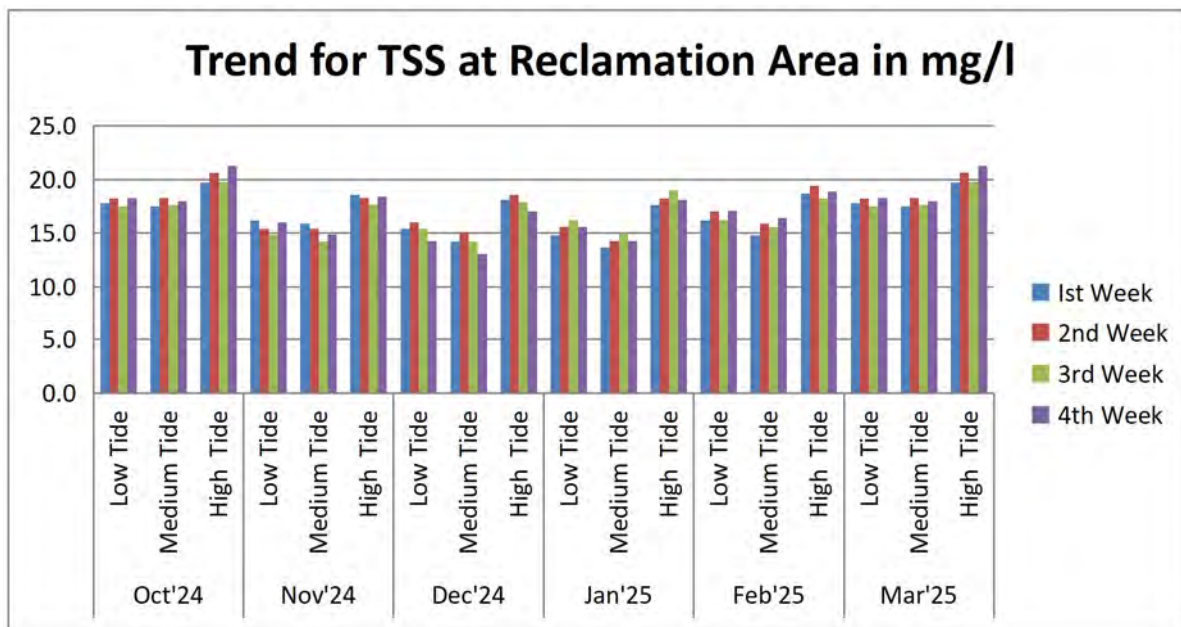
Month		Ist Week	2nd Week	3rd Week	4th Week	Month		Ist Week	2nd Week	3rd Week	4th Week
Oct'24	Low Tide	12.4	12.8	12.3	13.0	Jan'25	Low Tide	11.5	11.8	12.2	11.8
	Medium Tide	12.3	12.8	12.3	12.7		Medium Tide	10.7	11.1	11.7	11.4
	High Tide	15.0	15.6	14.2	14.8		High Tide	12.7	13.3	13.9	13.4
Nov'24	Low Tide	12.0	11.7	11.2	11.6	Feb'25	Low Tide	12.3	12.6	11.9	12.1
	Medium Tide	11.6	11.3	10.9	11.3		Medium Tide	11.9	12.2	11.4	11.7
	High Tide	14.1	13.8	13.4	13.9		High Tide	14.1	14.6	13.8	14.2
Dec'24	Low Tide	11.6	12.0	11.7	11.2	Mar'25	Low Tide	12.4	12.8	12.3	13.0
	Medium Tide	11.0	11.3	11.0	10.4		Medium Tide	12.3	12.8	12.3	12.7
	High Tide	13.8	14.2	12.9	12.2		High Tide	15.0	15.6	14.2	14.8



Month		Ist Week	2nd Week	3rd Week	4th Week	Month		Ist Week	2nd Week	3rd Week	4th Week
Oct'24	Low Tide	13.6	14.1	13.7	14.5	Jan'25	Low Tide	11.9	12.4	12.9	12.5
	Medium Tide	13.0	13.6	13.0	12.6		Medium Tide	11.6	12.0	12.6	12.2
	High Tide	15.8	16.4	15.9	16.3		High Tide	13.1	13.7	14.3	13.7
Nov'24	Low Tide	13.1	12.8	12.3	12.8	Feb'25	Low Tide	13.0	13.5	12.8	13.0
	Medium Tide	12.5	12.1	11.7	12.1		Medium Tide	12.8	13.4	12.3	12.6
	High Tide	13.2	12.9	12.5	13.8		High Tide	14.6	15.2	14.6	15.0
Dec'24	Low Tide	12.0	12.6	12.2	11.6	Mar'25	Low Tide	13.6	14.1	13.7	14.5
	Medium Tide	12.1	12.5	11.9	11.2		Medium Tide	13.0	13.6	13.0	12.6
	High Tide	14.0	14.5	13.2	12.6		High Tide	15.8	16.4	15.9	16.3

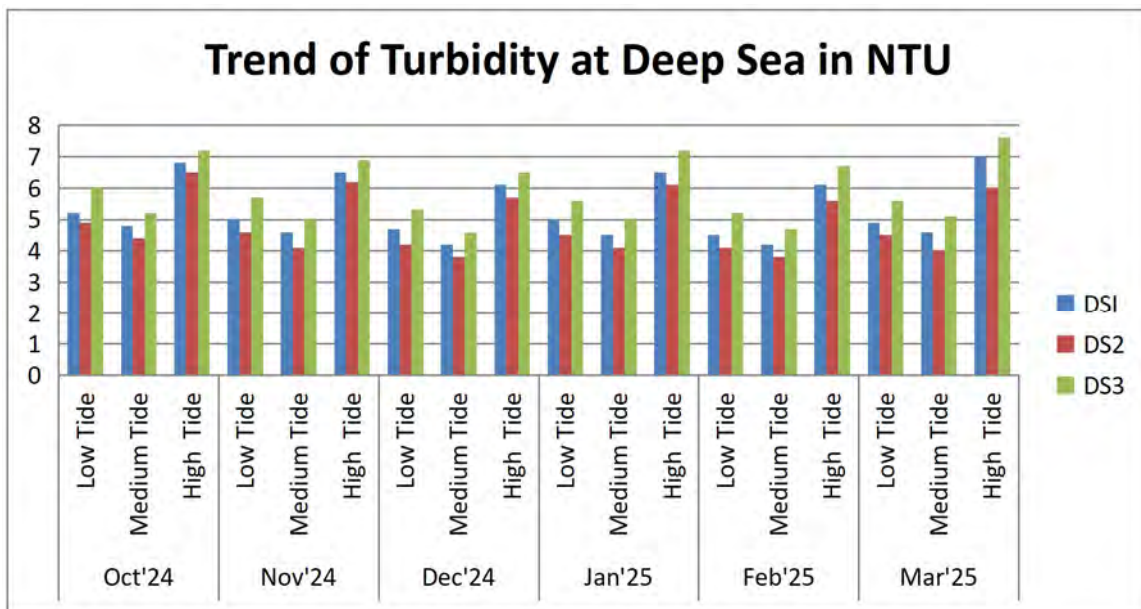


Month		Ist Week	2nd Week	3rd Week	4th Week	Month		Ist Week	2nd Week	3rd Week	4th Week
Oct'24	Low Tide	14.0	14.6	14.0	15.1	Jan'25	Low Tide	12.3	13.0	13.5	13.2
	Medium Tide	14.1	14.7	13.9	14.6		Medium Tide	11.0	11.6	12.1	11.6
	High Tide	16.2	16.9	16.2	17.2		High Tide	13.5	14.1	14.8	14.2
Nov'24	Low Tide	12.4	12.1	11.8	12.4	Feb'25	Low Tide	13.7	14.1	13.3	13.5
	Medium Tide	11.6	11.3	11.1	11.6		Medium Tide	12.1	12.6	12.8	13.2
	High Tide	13.7	13.5	13.0	13.5		High Tide	15.0	15.8	14.9	15.4
Dec'24	Low Tide	12.3	13.1	12.6	12.0	Mar'25	Low Tide	14.0	14.6	14.0	15.1
	Medium Tide	11.3	11.8	11.3	10.6		Medium Tide	14.1	14.7	13.9	14.6
	High Tide	13.5	14.1	13.5	12.8		High Tide	16.2	16.9	16.2	17.2

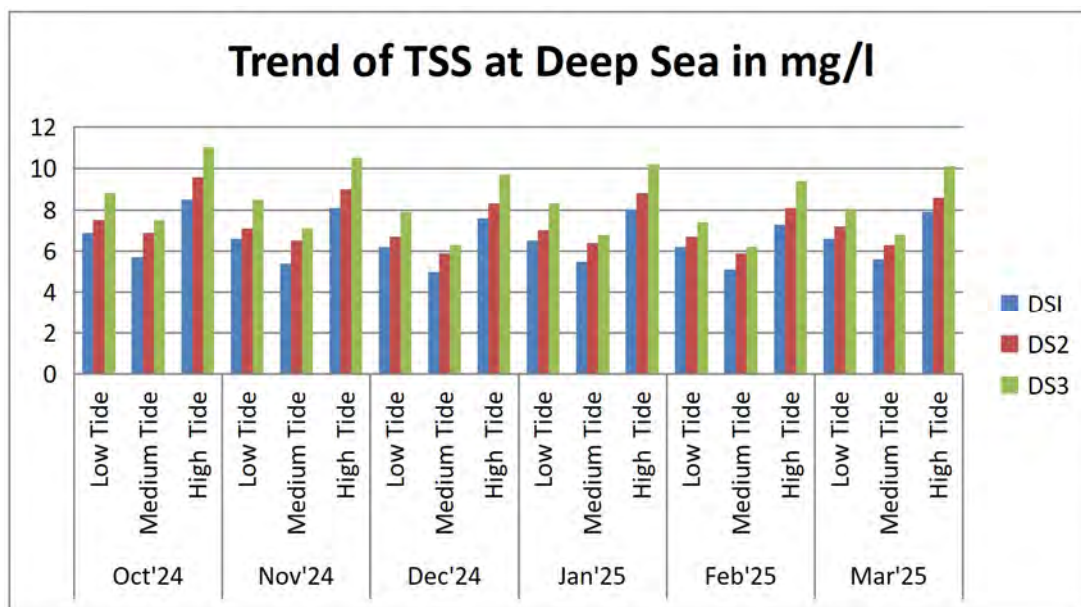


Month		1st Week	2nd Week	3rd Week	4th Week	Month		1st Week	2nd Week	3rd Week	4th Week
Oct'24	Low Tide	17.8	18.2	17.5	18.3	Jan'25	Low Tide	14.8	15.6	16.2	15.6
	Medium Tide	17.5	18.3	17.6	18.0		Medium Tide	13.7	14.3	15.0	14.3
	High Tide	19.7	20.6	19.8	21.3		High Tide	17.6	18.2	19.0	18.1
Nov'24	Low Tide	16.2	15.4	14.9	16.0	Feb'25	Low Tide	16.2	17.0	16.2	17.1
	Medium Tide	15.9	15.4	14.2	14.9		Medium Tide	14.8	15.9	15.6	16.4
	High Tide	18.6	18.3	17.7	18.4		High Tide	18.7	19.4	18.2	18.9
Dec'24	Low Tide	15.4	16.0	15.4	14.3	Mar'25	Low Tide	17.8	18.2	17.5	18.3
	Medium Tide	14.2	15.1	14.2	13.1		Medium Tide	17.5	18.3	17.6	18.0
	High Tide	18.1	18.6	17.9	17.0		High Tide	19.7	20.6	19.8	21.3

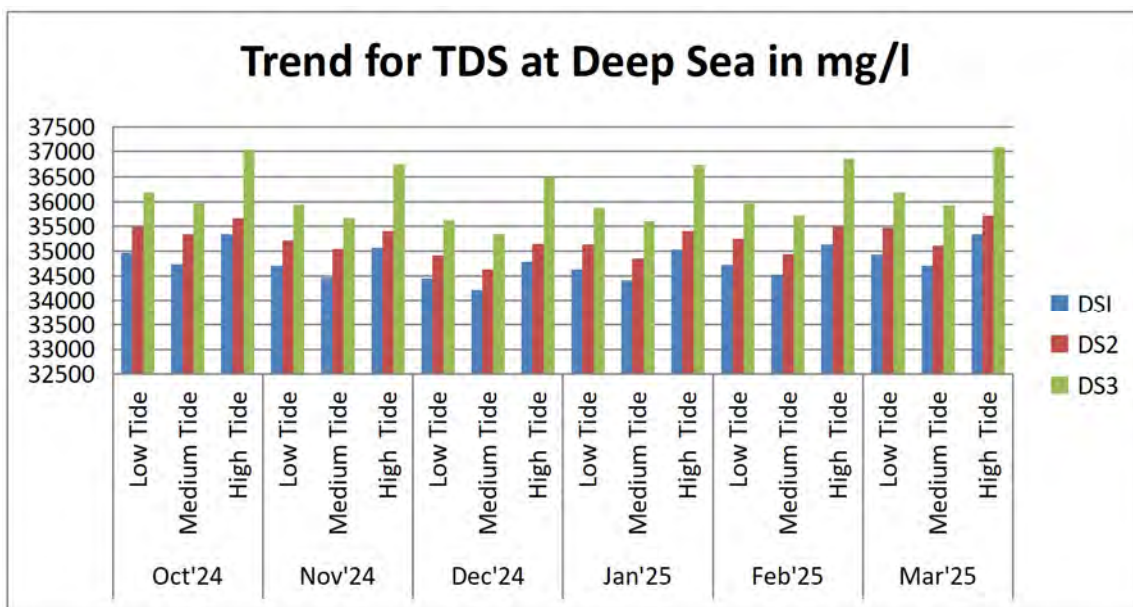
Status of Deep Sea Water Quality



Month		DS1	DS2	DS3	Month		DS1	DS2	DS3
Oct'24	Low Tide	5.2	4.9	6.0	Jan'25	Low Tide	5.0	4.5	5.6
	Medium Tide	4.8	4.4	5.2		Medium Tide	4.5	4.1	5.0
	High Tide	6.8	6.5	7.2		High Tide	6.5	6.1	7.2
Nov'24	Low Tide	5.0	4.6	5.7	Feb'25	Low Tide	4.5	4.1	5.2
	Medium Tide	4.6	4.1	5.0		Medium Tide	4.2	3.8	4.7
	High Tide	6.5	6.2	6.9		High Tide	6.1	5.6	6.7
Dec'24	Low Tide	4.7	4.2	5.3	Mar'25	Low Tide	4.9	4.5	5.6
	Medium Tide	4.2	3.8	4.6		Medium Tide	4.6	4.0	5.1
	High Tide	6.1	5.7	6.5		High Tide	7.0	6.0	7.6



Month		DS1	DS2	DS3	Month		DS1	DS2	DS3
Oct'24	Low Tide	6.9	7.5	8.8	Jan'25	Low Tide	6.5	7.0	8.3
	Medium Tide	5.7	6.9	7.5		Medium Tide	5.5	6.4	6.8
	High Tide	8.5	9.6	11.0		High Tide	8.0	8.8	10.2
Nov'24	Low Tide	6.6	7.1	8.5	Feb'25	Low Tide	6.2	6.7	7.4
	Medium Tide	5.4	6.5	7.1		Medium Tide	5.1	5.9	6.2
	High Tide	8.1	9.0	10.5		High Tide	7.3	8.1	9.4
Dec'24	Low Tide	6.2	6.7	7.9	Mar'25	Low Tide	6.6	7.2	8.0
	Medium Tide	5.0	5.9	6.3		Medium Tide	5.6	6.3	6.8
	High Tide	7.6	8.3	9.7		High Tide	7.9	8.6	10.1



Month		DSI	DS2	DS3	Month		DSI	DS2	DS3
Oct'24	Low Tide	34970	35491	36182	Jan'25	Low Tide	34635	35130	35879
	Medium Tide	34737	35349	35961		Medium Tide	34410	34852	35604
	High Tide	35349	35664	37037		High Tide	35027	35410	36746
Nov'24	Low Tide	34707	35209	35941	Feb'25	Low Tide	34717	35246	35965
	Medium Tide	34468	35039	35664		Medium Tide	34530	34936	35714
	High Tide	35073	35410	36751		High Tide	35141	35498	36852
Dec'24	Low Tide	34449	34920	35631	Mar'25	Low Tide	34935	35476	36184
	Medium Tide	34214	34637	35346		Medium Tide	34710	35108	35924
	High Tide	34787	35147	36490		High Tide	35337	35716	37094

4.6 Marine Sediment Quality

4.6.1 Sampling Locations

The Marine sediment sampling is carried out once in every week at four locations in the port listed below.

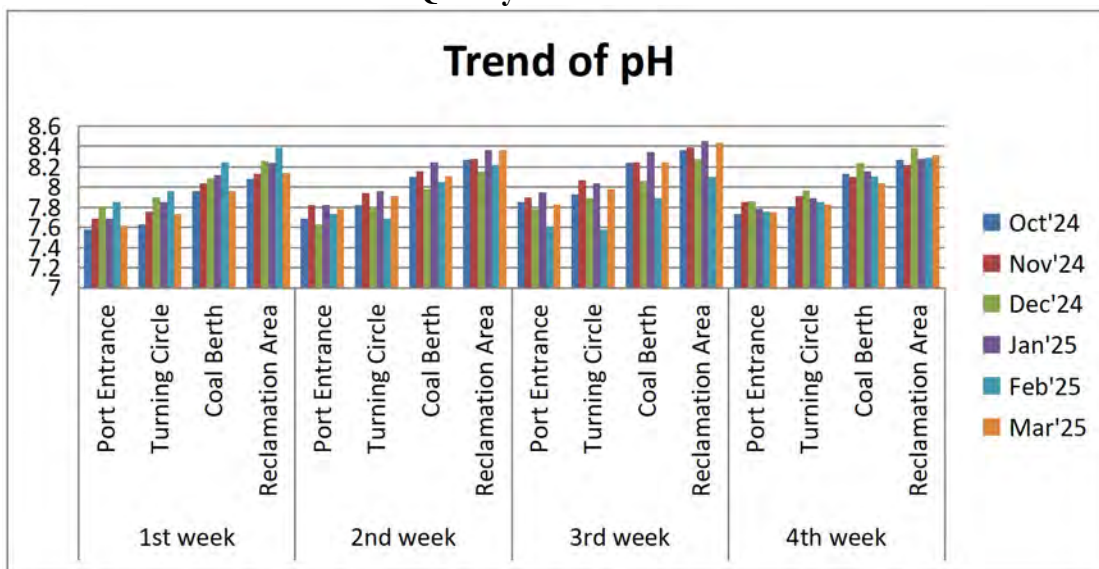
MARINE SEDIMENT MONITORING LOCATIONS

Sl.No	Location
1	Port Entrance
2	Turning Circle
3	Coal Berth
4	Reclamations Area

4.6.2 Method of Sampling

Marine sediment samples are collected using Van Veen Grab Sampler for analyzing Physical, Chemical and Biological parameters and presence of Heavy metals.

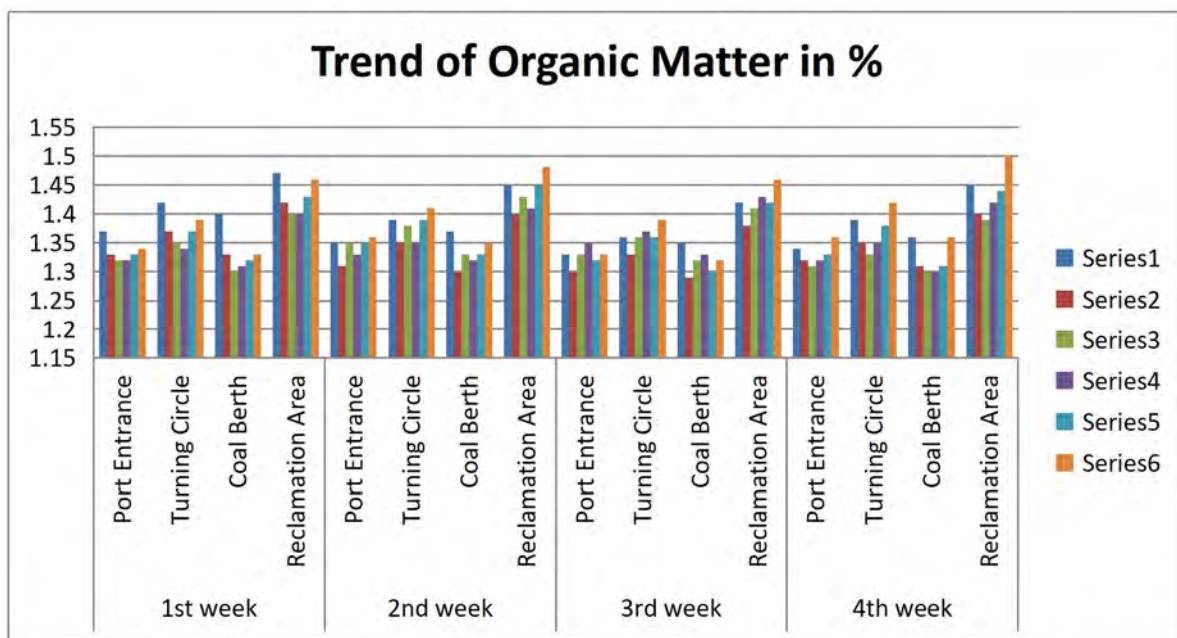
Status of Marine Sediments Quality



pH in Marine sediment varied between 7.58 to 8.45

Month	1st Week				2nd Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	7.58	7.63	7.96	8.08	7.69	7.82	8.10	8.27
Nov'24	7.69	7.76	8.04	8.13	7.82	7.94	8.16	8.28
Dec'24	7.81	7.90	8.09	8.26	7.63	7.81	7.98	8.15
Jan'25	7.69	7.85	8.12	8.24	7.82	7.96	8.25	8.36
Feb'25	7.85	7.96	8.25	8.39	7.73	7.69	8.05	8.22
Mar'25	7.62	7.73	7.96	8.14	7.78	7.91	8.11	8.36

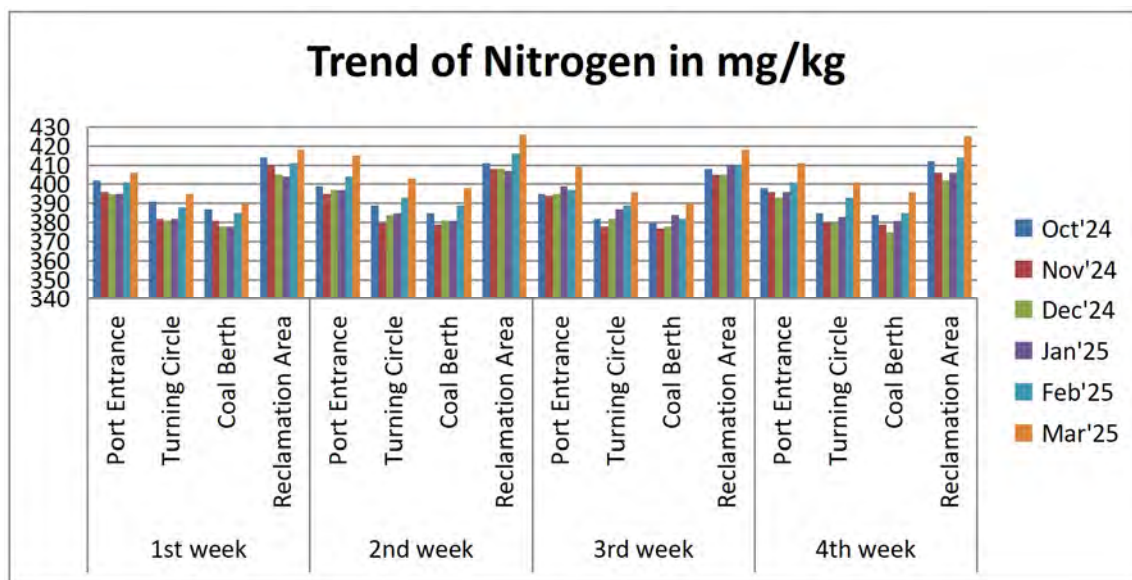
Month	3rd Week				4th Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	7.85	7.93	8.24	8.36	7.73	7.81	8.13	8.27
Nov'24	7.90	8.07	8.25	8.39	7.85	7.91	8.10	8.22
Dec'24	7.78	7.89	8.06	8.28	7.86	7.97	8.24	8.38
Jan'25	7.95	8.04	8.34	8.45	7.78	7.89	8.16	8.28
Feb'25	7.61	7.58	7.89	8.10	7.76	7.85	8.11	8.29
Mar'25	7.83	7.98	8.25	8.43	7.75	7.83	8.04	8.32



Organic Matter in Marine sediment varied between 1.29 to 1.50 %

Month	1st Week				2nd Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	1.37	1.42	1.40	1.47	1.35	1.39	1.37	1.45
Nov'24	1.33	1.37	1.33	1.42	1.31	1.35	1.30	1.40
Dec'24	1.32	1.35	1.30	1.40	1.35	1.38	1.33	1.43
Jan'25	1.32	1.34	1.31	1.40	1.33	1.35	1.32	1.41
Feb'25	1.33	1.37	1.32	1.43	1.35	1.39	1.33	1.45
Mar'25	1.34	1.39	1.33	1.46	1.36	1.41	1.35	1.48

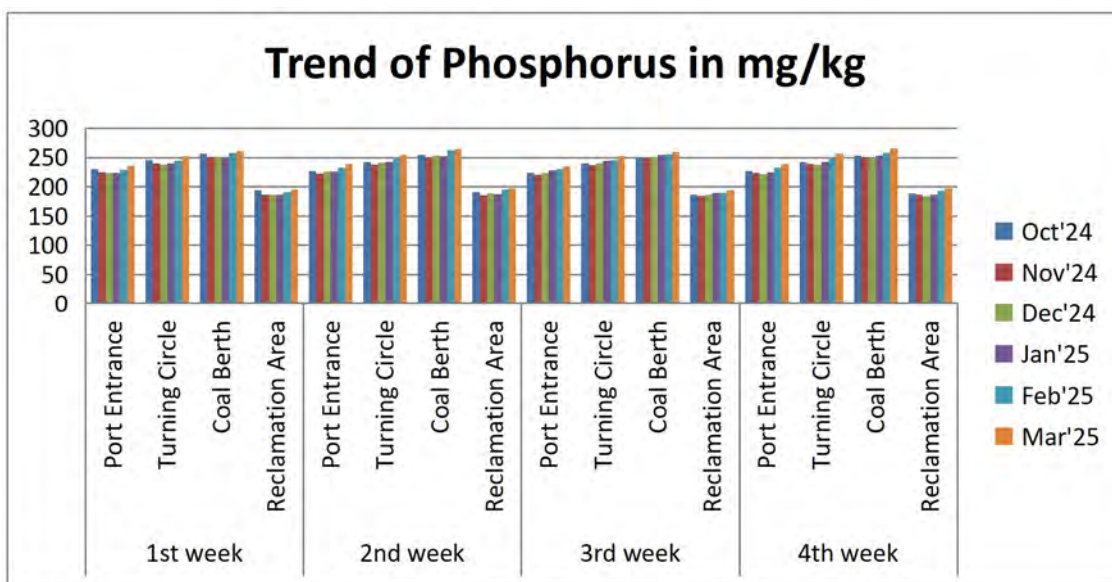
Month	3rd Week				4th Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	1.33	1.36	1.35	1.42	1.34	1.39	1.36	1.45
Nov'24	1.30	1.33	1.29	1.38	1.32	1.35	1.31	1.40
Dec'24	1.33	1.36	1.32	1.41	1.31	1.33	1.30	1.39
Jan'25	1.35	1.37	1.33	1.43	1.32	1.35	1.30	1.42
Feb'25	1.32	1.36	1.30	1.42	1.33	1.38	1.31	1.44
Mar'25	1.33	1.39	1.32	1.46	1.36	1.42	1.36	1.50



Nitrogen In Marine sediment varied between 375 to 426 mg/kg

Month	1st Week				2nd Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	402	391	387	414	399	389	385	411
Nov'24	396	382	381	410	395	380	379	408
Dec'24	395	381	378	405	397	384	381	408
Jan'25	395	382	378	404	397	385	381	407
Feb'25	401	388	385	411	404	393	389	416
Mar'25	406	395	390	418	415	403	398	426

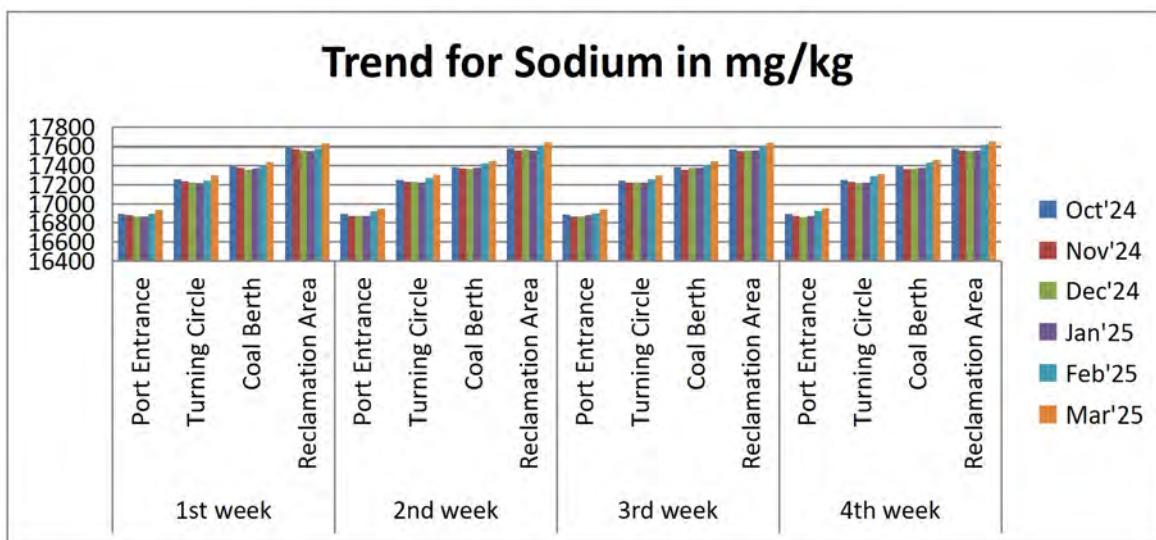
Month	3rd Week				4th Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	395	382	380	408	398	385	384	412
Nov'24	394	378	377	405	396	380	379	406
Dec'24	395	382	378	405	393	380	375	402
Jan'25	399	387	384	410	396	383	381	406
Feb'25	397	389	382	410	401	393	385	414
Mar'25	409	396	390	418	411	401	396	425



Phosphorous in Marine sediment varied between 184 to 265 mg/kg

Month	1st Week				2nd Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	230	246	257	194	227	243	254	191
Nov'24	225	240	251	187	223	238	250	185
Dec'24	224	238	251	186	226	241	253	189
Jan'25	224	240	250	186	226	243	252	188
Feb'25	229	245	258	191	233	249	262	195
Mar'25	236	252	261	195	239	255	264	198

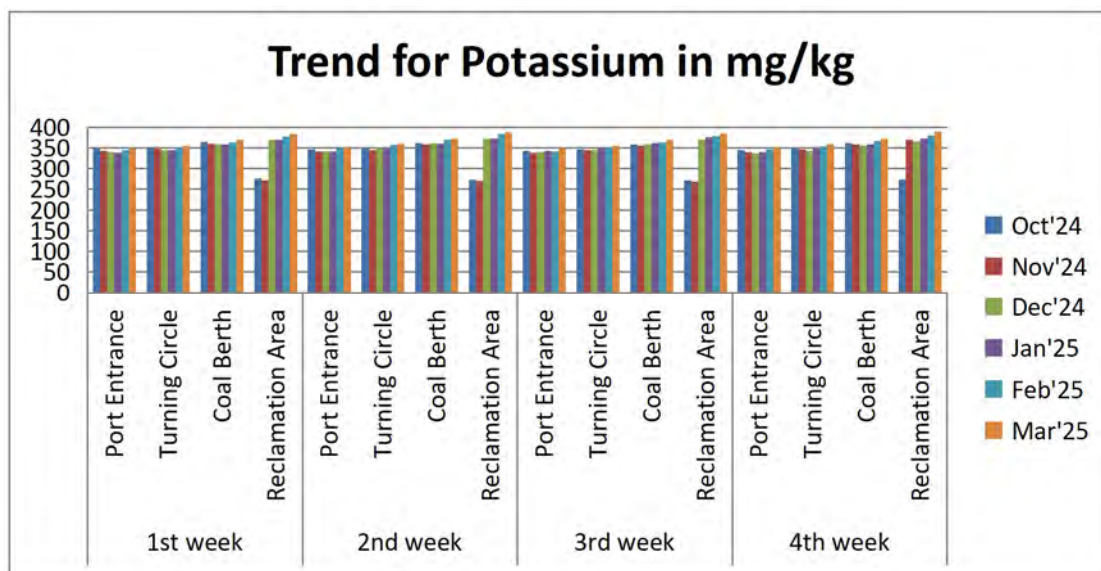
Month	3rd Week				4th Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	224	240	250	187	227	242	253	189
Nov'24	221	237	249	184	224	239	251	186
Dec'24	224	240	250	186	222	238	248	184
Jan'25	228	245	255	190	225	242	253	187
Feb'25	230	246	256	190	233	249	258	193
Mar'25	235	252	260	194	239	257	265	198



Sodium in Marine sediment varied between 16860 to 17645 mg/kg

Month	1st Week				2nd Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	16895	17256	17392	17584	16891	17250	17388	17580
Nov'24	16880	17238	17377	17575	16872	17230	17369	17563
Dec'24	16869	17223	17361	17560	16875	17231	17368	17571
Jan'25	16864	17218	17374	17555	16872	17221	17377	17558
Feb'25	16896	17245	17400	17582	16920	17272	17426	17610
Mar'25	16932	17297	17438	17627	16945	17306	17450	17640

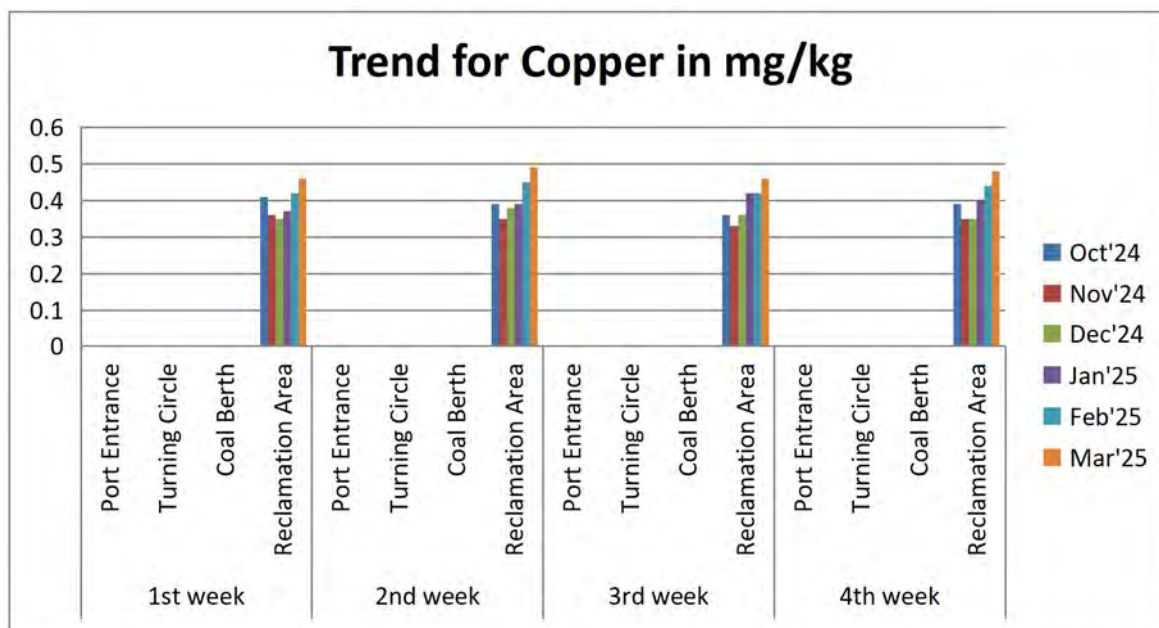
Month	3rd Week				4th Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	16887	17246	17385	17577	16891	17249	17389	17581
Nov'24	16867	17225	17361	17556	16873	17232	17367	17562
Dec'24	16868	17224	17379	17560	16860	17214	17370	17551
Jan'25	16877	17226	17381	17562	16874	17221	17376	17558
Feb'25	16902	17258	17412	17598	16925	17290	17430	17615
Mar'25	16940	17301	17443	17633	16951	17312	17457	17645



Potassium in Marine sediment varied between 268 to 389 mg/kg

Month	1st Week				2nd Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	349	351	365	277	346	349	362	274
Nov'24	343	347	360	272	341	345	358	270
Dec'24	340	345	358	370	342	348	361	372
Jan'25	339	345	358	369	341	347	360	372
Feb'25	344	351	363	377	349	357	370	384
Mar'25	348	356	369	384	353	360	372	388

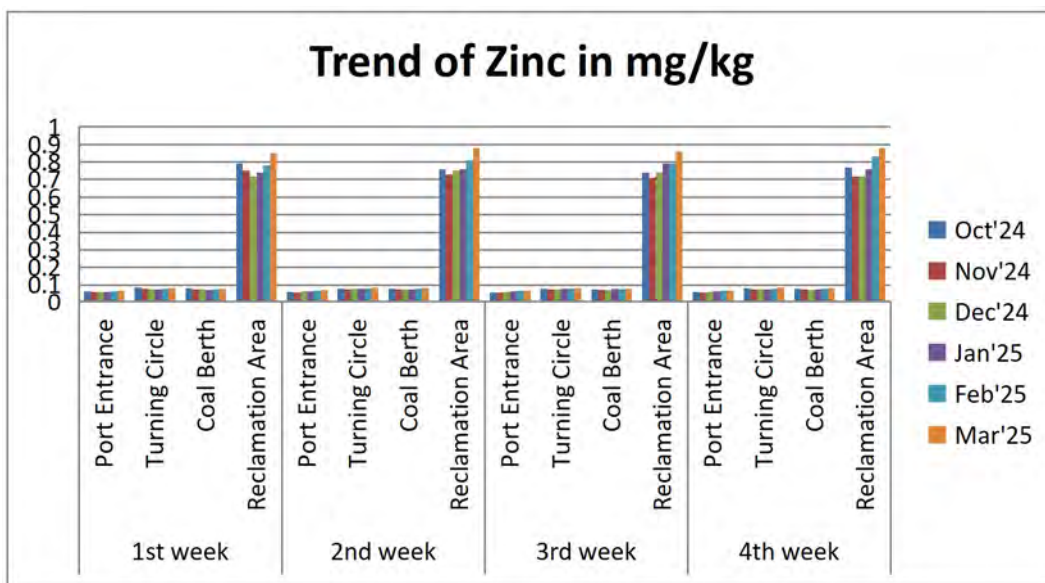
Month	3rd Week				4th Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	343	346	359	271	345	349	362	274
Nov'24	339	344	356	268	340	346	359	270
Dec'24	340	345	359	370	337	343	356	367
Jan'25	343	350	362	375	340	347	359	372
Feb'25	342	351	363	378	346	354	367	381
Mar'25	349	356	369	385	353	359	373	389



Copper in Marine Sediment varied between 0.33 to 0.49 mg/kg

Month	1st Week				2nd Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	< 0.01	< 0.01	< 0.01	0.41	< 0.01	< 0.01	< 0.01	0.39
Nov'24	< 0.01	< 0.01	< 0.01	0.36	< 0.01	< 0.01	< 0.01	0.35
Dec'24	< 0.01	< 0.01	< 0.01	0.35	< 0.01	< 0.01	< 0.01	0.38
Jan'25	< 0.01	< 0.01	< 0.01	0.37	< 0.01	< 0.01	< 0.01	0.39
Feb'25	< 0.01	< 0.01	< 0.01	0.42	< 0.01	< 0.01	< 0.01	0.45
Mar'25	< 0.01	< 0.01	< 0.01	0.46	< 0.01	< 0.01	< 0.01	0.49

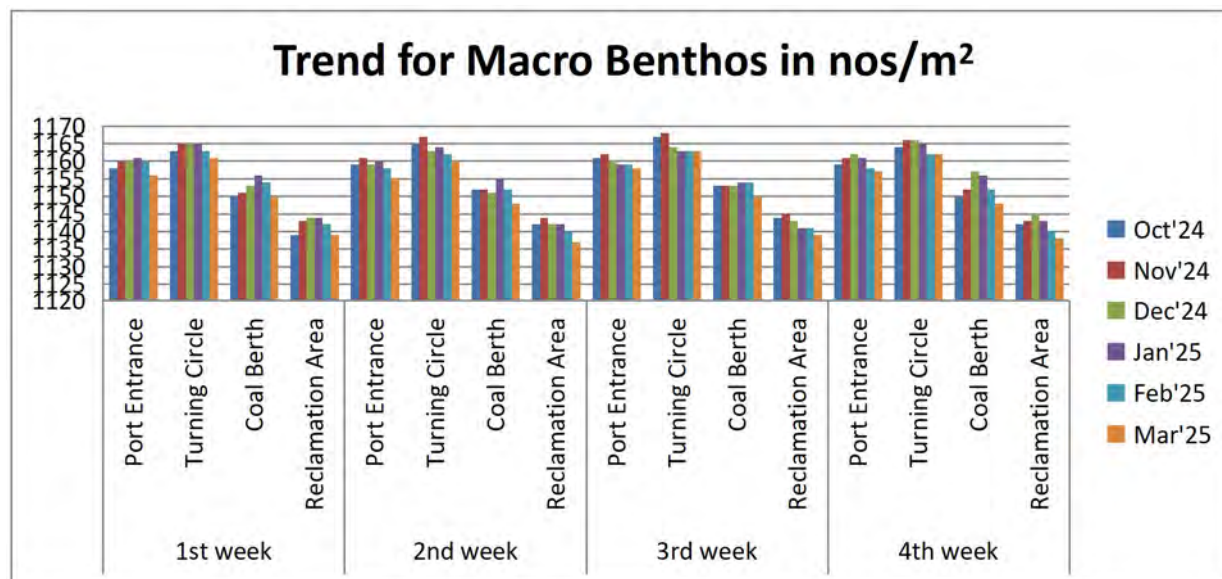
Month	3rd Week				4th Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	< 0.01	< 0.01	< 0.01	0.36	< 0.01	< 0.01	< 0.01	0.39
Nov'24	< 0.01	< 0.01	< 0.01	0.33	< 0.01	< 0.01	< 0.01	0.35
Dec'24	< 0.01	< 0.01	< 0.01	0.36	< 0.01	< 0.01	< 0.01	0.35
Jan'25	< 0.01	< 0.01	< 0.01	0.42	< 0.01	< 0.01	< 0.01	0.4
Feb'25	< 0.01	< 0.01	< 0.01	0.42	< 0.01	< 0.01	< 0.01	0.44
Mar'25	< 0.01	< 0.01	< 0.01	0.46	< 0.01	< 0.01	< 0.01	0.48



Zinc in Marine sediment varied between 0.056 to 0.88 mg/kg

Month	1st Week				2nd Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	0.065	0.084	0.081	0.79	0.061	0.080	0.078	0.76
Nov'24	0.060	0.078	0.076	0.75	0.058	0.075	0.073	0.73
Dec'24	0.060	0.076	0.073	0.72	0.063	0.078	0.074	0.75
Jan'25	0.061	0.075	0.072	0.74	0.063	0.077	0.075	0.76
Feb'25	0.065	0.078	0.076	0.78	0.068	0.080	0.079	0.81
Mar'25	0.068	0.082	0.080	0.85	0.070	0.085	0.083	0.88

Month	3rd Week				4th Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	0.058	0.078	0.076	0.74	0.061	0.081	0.079	0.77
Nov'24	0.056	0.073	0.072	0.71	0.058	0.075	0.074	0.72
Dec'24	0.061	0.075	0.072	0.74	0.059	0.073	0.070	0.72
Jan'25	0.065	0.079	0.078	0.79	0.063	0.076	0.075	0.76
Feb'25	0.066	0.078	0.076	0.79	0.067	0.080	0.078	0.83
Mar'25	0.067	0.082	0.080	0.86	0.069	0.085	0.083	0.88



Macro Benthos in Marine Sediment varied between 1137 to 1168 nos/m²

Month	1st Week				2nd Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	1158	1163	1150	1139	1159	1165	1152	1142
Nov'24	1160	1165	1151	1143	1161	1167	1152	1144
Dec'24	1160	1165	1153	1144	1159	1163	1151	1142
Jan'25	1161	1165	1156	1144	1160	1164	1155	1142
Feb'25	1160	1163	1154	1142	1158	1162	1152	1140
Mar'25	1156	1161	1150	1139	1155	1160	1148	1137

Month	3rd Week				4th Week			
	Port Entrance	Turning Circle	Coal Berth	Reclamation Area	Port Entrance	Turning Circle	Coal Berth	Reclamation Area
Oct'24	1161	1167	1153	1144	1159	1164	1150	1142
Nov'24	1162	1168	1153	1145	1161	1166	1152	1143
Dec'24	1160	1164	1153	1143	1162	1166	1157	1145
Jan'25	1159	1163	1154	1141	1161	1165	1156	1143
Feb'25	1159	1163	1154	1141	1158	1162	1152	1140
Mar'25	1158	1163	1150	1139	1157	1162	1148	1138

Summary of marine sediments quality results for Six months of Oct'24 – March'25

- Organic matter - value are in the range 1.29 to 1.50 %
- Nitrogen -value are in the range 375 to 426 mg/kg
- Phosphorous - value are in the range 184 to 265 mg/kg
- Sodium - value are in the range 16860 to 17645 mg/kg
- Potassium - value are in the range 268 to 389 mg/kg
- Copper - value are in the range 0.33 to 0.49 mg/kg
- Zinc -value are in the range 0.056 to 0.88 mg/kg
- Macro Benthos - value are in the range 1137 to 1168 nos/m²

TEST REPORT OF GROUND WATER SAMPLES**DATE OF COLLECTION** : 19-03-2025

S. No.	Parameter	Unit	Port Site (Bore Well)	Krishnapatnam Village	South Side of the Port	Gopalpuram Village	IS: 10500-2012 Specification
1.	pH	--	7.51	7.44	7.29	7.33	6.5 – 8.5
2	Electrical Conductivity	µmhos	1201	1068	1378	1244	-
3	TDS	mg/l	803	629	849	736	500
4	Total Alkalinity as CaCO ₃	mg/l	255	229	341	245	200
5	Chlorides as Cl ⁻	mg/l	351	268	322	209	250
6	Sodium	mg/l	138	102	143	91.4	-
7	Potassium	mg/l	44.7	26.9	28.1	12.5	-
8	Fluorides as F ⁻	mg/l	0.51	0.47	0.60	0.45	1.0
9	Nitrates as NO ₃	mg/l	4.93	5.44	4.03	4.66	45
10	Cyanide as CN	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	0.05
11	Total Hardness as CaCO ₃	mg/l	129	109	142	113	200
12	Salinity	ppt	0.058	0.03	0.06	0.02	-
13	Sulphates as SO ₄ ²⁻	mg/l	97.6	68.3	71.2	80.1	200
14	COD	mg/l	< 10.0	< 10.0	< 10.0	< 10.0	-
15	Mercury as Hg	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	0.001
16	Cadmium as Cd	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	0.003
17	Arsenic as As	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	0.01
18	Selenium	mg/l	< 0.05	< 0.05	< 0.05	< 0.05	-
19	Iron as Fe	mg/l	0.07	0.03	0.08	0.11	0.3
20	Lead as Pb	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	0.01
21	Zinc as Zn	mg/l	0.12	0.06	0.04	0.07	5.0
22	Chromium as Cr ⁶⁺	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	0.05
23	Total Coliforms	CFU/ml	Not Detected	Not Detected	Not Detected	Not Detected	Shall not be detected in 100ml
24	Fecal Coliforms	CFU/ml	Not Detected	Not Detected	Not Detected	Not Detected	Shall not be detected in 100ml

Note: . All the above parameters have been tested as per APHA 24th Edition, 2023.

4.8 SOIL QUALITY

For studying soil profile of the region, sampling locations are selected to assess the existing soil characteristics in and around the port area representing various land use conditions.

4.8.1 Sampling Locations

A total two number of samples collected from the sampling sites. The details of the soil sampling locations are given below.

The soil samples are collected and analyzed once in six months.

SOIL QUALITY MONITORING LOCATIONS

Location Code	Name of the Location
S1	Storage area towards west Buckingham Canal
S2	Storage Area at Port

TEST REPORT OF SOIL SAMPLES**DATE OF COLLECTION** : 19-03-2025

S. NO.	PARAMETER	UNIT	S1	S2
1.	pH(1:5)	--	7.28	7.19
2.	EC(1:5)	µmhos	537	601
3.	Texture			
	a. Sand	%	51.8	47.6
	b. Silt	%	23.2	20.1
	c. Clay	%	25.0	32.3
4	Available Nitrogen	kg/ha	202	217
5	Available Phosphorus	kg/ha	10	13
6	Available Potassium	kg/ha	443	469
7	Exchangeable Sodium	mg/kg	171	183
8	Exchangeable Calcium	mg/kg	109	134
9	Exchangeable Magnesium	mg/kg	25	37
10	SAR (SAR)	-	2.16	1.59
11	Water Soluble Chlorides	mg/kg	146	175
12	Organic Carbon	%	0.27	0.38
13	Lead	mg/kg	6.1	5.1
14	Cadmium	mg/kg	0.14	0.07
15	Copper	mg/kg	7.4	7.5
16	Zinc	mg/kg	6.9	7.8

4.9 STP INLET AND OUTLET ANALYSIS

Frequency: STP Inlet and Outlet samples are collected monthly once.

TEST REPORT OF STP INLET – 500KLD

S.No	Parameter	Unit	Oct'24	Nov'24	Dec'24	Jan'25	Feb'25	Mar'25
1	pH	-	7.36	7.13	7.36	7.35	7.23	7.42
2	Total Suspended Solids	mg/l	120	132	120	106	98.0	112
3	BOD 3day 27°C	mg/l	108	116	110	98.0	90.0	101
4	Oil & Grease	mg/l	4.0	5.0	4.0	3.0	3.0	4.0
5	Fecal coliform	MPN/100ml	15X10 ³	17X10 ³	15X10 ³	12X10 ³	10X10 ³	13X10 ³

TEST REPORT OF STP OUTLET – 500KLD

S.No	Parameter	Unit	Oct'24	Nov'24	Dec'24	Jan'25	Feb'25	Mar'25
1	pH	-	7.51	7.34	7.48	7.59	7.41	7.63
2	Total Suspended Solids	mg/l	43.0	49.0	42.0	36.0	31.0	38.0
3	BOD 3day 27°C	mg/l	24.0	27.0	24.0	21.0	18.0	23.0
4	Oil & Grease	mg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	Fecal coliform	MPN/100ml	240	270	240	210	180	230

TEST REPORT OF STP INLET – 40KLD

S.No	Parameter	Unit	Oct'24	Nov'24	Dec'24	Jan'25	Feb'25	Mar'25
1	pH	-	7.58	7.67	7.51	7.73	7.56	7.86
2	Total Suspended Solids	mg/l	102	110	98.0	90.0	80.0	88.0
3	BOD 3day 27°C	mg/l	95.0	108	102	94.0	84.0	92.0
4	Oil & Grease	mg/l	4.3	5.0	4.0	3.0	2.0	3.0
5	Fecal coliform	MPN/100ml	12X10 ³	14X10 ³	11X10 ³	09X10 ³	07X10 ³	11X10 ³

TEST REPORT OF STP OUTLET – 40KLD

S.No	Parameter	Unit	Oct'24	Nov'24	Dec'24	Jan'25	Feb'25	Mar'25
1	pH	-	7.29	7.10	7.23	7.32	7.14	7.31
2	Total Suspended Solids	mg/l	17.0	22.0	18.0	14.0	10.0	15.0
3	BOD 3day 27°C	mg/l	20.0	23.0	20.0	18.0	15.0	19.0
4	Oil & Grease	mg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	Fecal coliform	MPN/100ml	198	220	190	150	120	160

5.0 STACK EMISSION MONITORING

Sampling of Flue gas emissions of DG Sets was done and their emissions were determined. The Detailed report has been enclosed here.

SAMPLE PARTICULARS : **DG SET EMISSION**

SOURCE OF COLLECTION : 1) 380 KVA DG SET (Port Admin Building)
2) 250 KVA DG SET (SS - 2)
3) 320 KVA DG SET (Admin Block)
4) DG SET (SS-1)
5) 320 KVA DG SET (GUEST HOUSE)

DATE OF MONITORING : 19-03-2025

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT				
			1	2	3	4	5
1.	Diameter of the Stack	mts	0.16	0.16	0.16	0.16	0.16
2.	C/s Area of Stack	sq.mt	0.02	0.02	0.02	0.02	0.02
3.	Pitot Coefficient	-	0.87	0.87	0.87	0.87	0.87
4.	Sp: gravity of Fluid	-	1.0	1.0	1.0	1.0	1.0
5.	Temperature @ DGM	^o C	32	32	33	33	34
6.	Stack temperature	^o C	144	119	141	136	131
7.	Nozzle Diameter	mm	10	10	10	10	10
8.	Exit Velocity	m/sec	12.2	11.2	13.8	10.8	12.9
9.	Gas Quantity	m ³ /hr	878	806	993	777	929
10.	Duration of Sampling	minutes	30	30	30	30	30
11.	Fuel used	-	Diesel				

EMISSION RATE

S.NO.	PARAMETER	UNIT	METHOD	RESULT				
				1	2	3	4	5
1.	Particulate Matter – PM	g/kw-hr	IS:11255-P-1	0.11	0.07	0.16	0.18	0.15
2.	Oxides of Nitrogen – NOx	g/kw-hr	IS:11255-P-2	0.83	0.73	1.17	0.91	0.93
3.	Carbon Monoxide – CO	g/kw-hr	IS:11255-P-7	0.37	0.45	0.51	0.35	0.47
4.	Hydrocarbons - HC	g/kw-hr	IS:11255	0.13	0.10	0.19	0.08	0.14

SAMPLE PARTICULARS : **DG SET EMISSION**

SOURCE OF COLLECTION : 6) 250 KVA DG SET (GUEST HOUSE)
7) 250 KVA DG SET (GARRAGE)
8) 500 KVA DG SET (NCT – 1)
9) 500 KVA DG SET (NCT YARD)
10) 125 KVA DG SET (LIQUID JETTY - L4)

DATE OF START : 19-03-2025

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT				
			6	7	8	9	10
1.	Diameter of the Stack	mts	0.16	0.16	0.16	0.16	0.16
2.	C/s Area of Stack	sq.mt	0.02	0.02	0.02	0.02	0.02
3.	Pitot Coefficient	-	0.87	0.87	0.87	0.87	0.87
4.	Sp: gravity of Fluid	-	1.0	1.0	1.0	1.0	1.0
5.	Temperature @ DGM	°C	34	33	32	32	31
6.	Stack temperature	°C	115	121	152	166	112
7.	Nozzle Diameter	mm	10	10	10	10	10
8.	Exit Velocity	m/sec	10.1	11.9	14.5	14.8	10.7
9.	Gas Quantity	m ³ /hr	727	856	1044	1065	770
10.	Duration of Sampling	minutes	30	30	30	30	30
11.	Fuel used	-	Diesel				

EMISSION RATE

S.NO.	PARAMETER	UNIT	METHOD	RESULT				
				6	7	8	9	10
1.	Particulate Matter – PM	g/kw-hr	IS:11255-P-1	0.17	0.15	0.22	0.16	0.11
2.	Oxides of Nitrogen – NOx	g/kw-hr	IS:11255-P-2	0.69	1.03	0.98	0.83	0.57
3.	Carbon Monoxide – CO	g/kw-hr	IS:11255-P-7	0.35	0.49	0.47	0.41	0.35
4.	Hydrocarbons - HC	g/kw-hr	IS:11255	0.09	0.16	0.12	0.10	0.07

ANNEXURES

**NATIONAL AMBIENT AIR QUALITY STANDARDS
CENTRAL POLLUTION CONTROL BOARD
NOTIFICATION**

New Delhi, the 18th November, 2009

No B-29016/20/90/PCI-L—In exercise of the powers conferred by Sub-section (2) (b) of section 16 of the Air (Prevention and Control of Pollution) Act, 1981 (Act No. 14 of 1981), and in super session of the Notification No(s). S.O. 384(E), dated 11th April, 1994 and S.O. 935(E), dated 14th October, 1998, the Central Pollution Control Board hereby notify the National Ambient Air Quality Standards with immediate effect, namely:-

NATIONAL AMBIENT AIR QUALITY STANDARDS

S. No.	Pollutant	Time Weighted average	Concentration in Ambient Air		Methods of Measurement
			Industrial, Residential, Rural and Other Area	Ecologically sensitive area (notified by Central Govt.)	
(1)	(2)	(3)	(4)	(5)	(6)
1	Sulphur Dioxide (SO ₂), µg/m ³	Annual*	50	20	<ul style="list-style-type: none"> Improved West and Geake Ultraviolet fluorescence
		24 hours**	80	80	
2	Nitrogen Dioxide (NO ₂), µg/m ³	Annual*	40	30	<ul style="list-style-type: none"> Modified Jacob & Hochheiser (Na-Arsenite) Chemiluminescence
		24 hours**	80	80	
3	Particulate Matter (size less than 10 µm) or PM ₁₀ , µg/m ³	Annual*	60	60	<ul style="list-style-type: none"> Gravimetric TOEM Beta attenuation
		24 hours**	100	100	
4	Particulate Matter (size less than 2.5 microns) or PM _{2.5} , µg/m ³	Annual*	40	40	<ul style="list-style-type: none"> Gravimetric TOEM Beta attenuation
		24 hours**	60	60	
5	Ozone (O ₃), µg/m ³	8 hours**	100	100	<ul style="list-style-type: none"> UV photometric Chemiluminescence Chemical method
		1 hour**	180	180	
6	Lead (Pb), µg/m ³	Annual*	0.5	0.5	<ul style="list-style-type: none"> ASS / ICP method after sampling on EPM 2000 or equivalent filter paper ED - XRF using
		24 hours**	1.0	1.0	
7	Carbon Monoxide (CO), mg/m ³	8 hours**	2	2	Non Dispersive Infra RED (NDIR) Spectroscopy
		1 hour**	4	4	
8	Ammonia (NH ₃), µg/m ³	Annual*	100	100	<ul style="list-style-type: none"> Chemiluminescence Indophenol blue method
		24 hours**	400	400	
9	Benzene (C ₆ H ₆), µg/m ³	Annual*	5	5	<ul style="list-style-type: none"> Gas chromatography based continuous analyser Adsorption and desorption followed by GC analysis
10	Benzo (a) Pyrene (BaP) – particulate phase only, ng/m ³	Annual*	1	1	Solvent extraction followed by HPLC / GC analysis
11	Arsenic (As), ng/m ³	Annual*	6	6	AAS / ICP method after sampling on EPM 2000 or equivalent filter paper
12	Nickel (Ni), ng/m ³	Annual*	20	20	AAS / ICP method after sampling on EPM 2000 or equivalent filter paper

* Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

** 24 hourly or 8 hourly or 1 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

Note: Whenever and wherever monitoring results on two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further investigation.

PHOTOGRAPHS

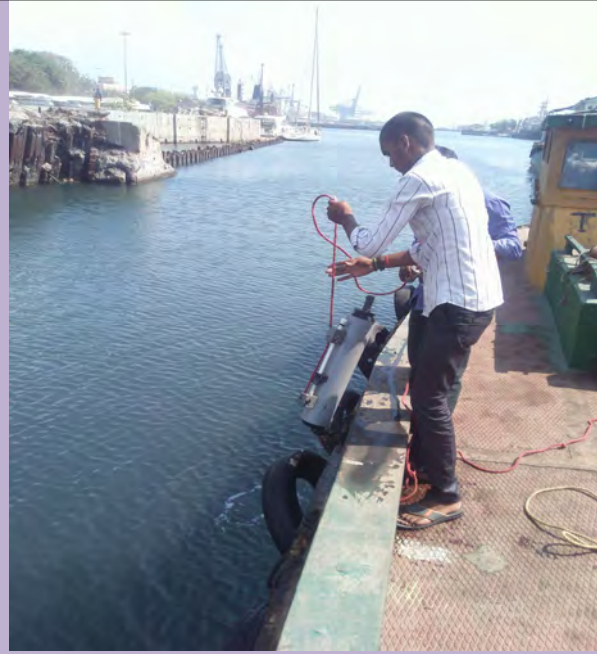
AMBIENT AIR QUALITY SAMPLING LOCATIONS

Thamminipatnam village	Gopalapuram village
	
Chalivendram	Krishnapatnam village
	

AMBIENT AIR QUALITY SAMPLING LOCATIONS

New Light House	Zero Point
 A photograph showing a person in a light-colored shirt and dark pants standing next to an air quality sampling station. The station consists of a blue cabinet on a dark barrel, with a white vertical tube and a blue cap. The background shows a paved area with some greenery and a building under construction.	 A photograph of an air quality sampling station at the Zero Point location. The station is a blue cabinet on a dark barrel, with a white vertical tube and a blue cap. The background shows a dirt area with some trees and a clear sky.
Amenities Complex (CVR)	
 A photograph showing a person in a purple shirt kneeling next to an air quality sampling station. The station is a blue cabinet on a dark barrel, with a white vertical tube and a blue cap. The person is adjusting something on the front of the cabinet. The background shows a paved area with a wall and some trees.	 A photograph of an air quality sampling station at the Amenities Complex (CVR) location. The station is a blue cabinet on a dark barrel, with a white vertical tube and a blue cap. The background shows a paved area with a wall and some trees.

WATER SAMPLING



SEDIMENT SAMPLING

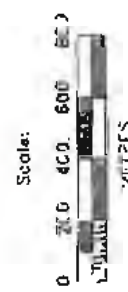
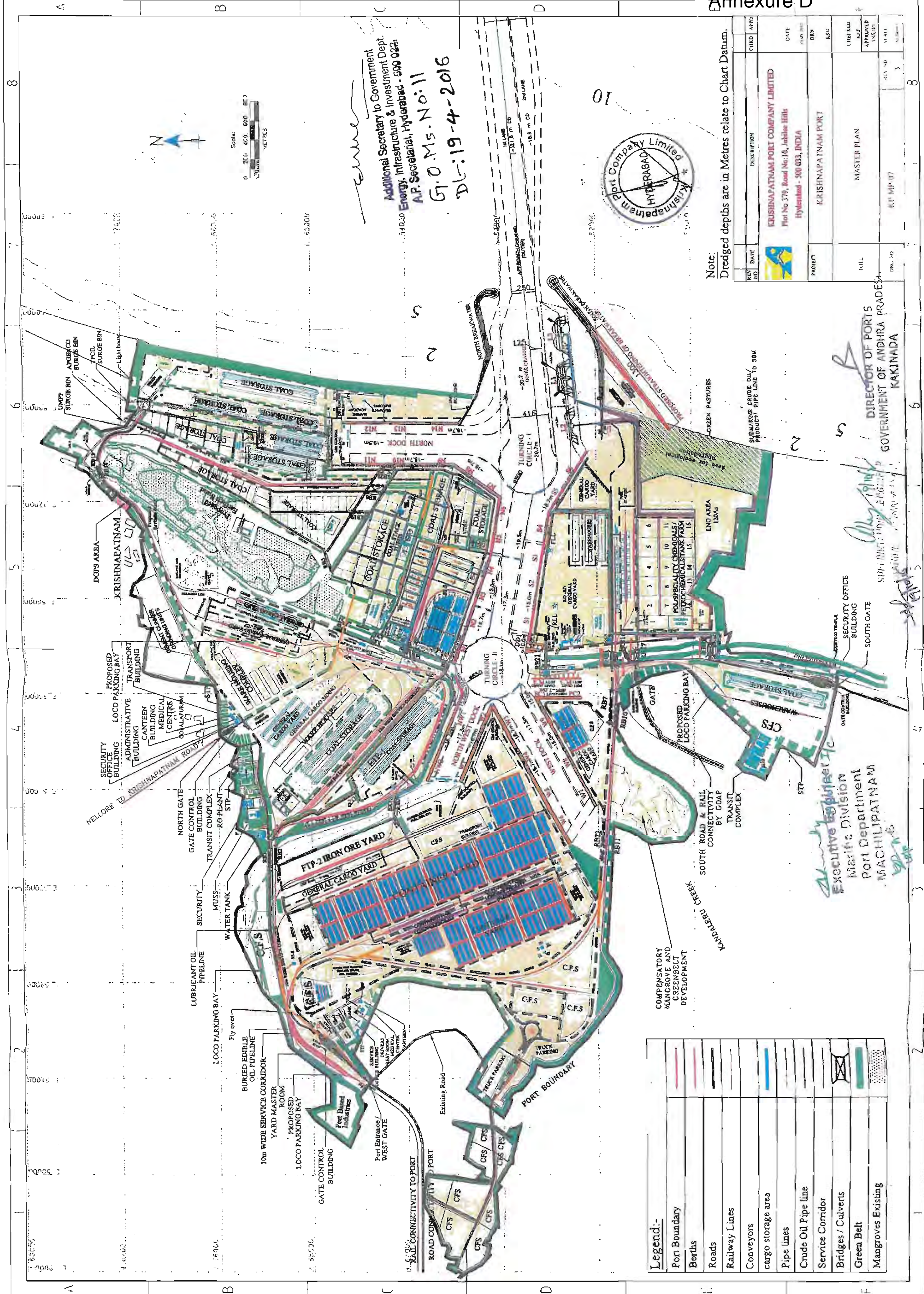


PHYTOPLANKTON SAMPLING



NOISE MONITORING





Additional Secretary to Government
Energy, Infrastructure & Investment Dept.
A.P. Secretariat, Hyderabad - 500 022.
G.O.Ms. No:11
DL:19-4-2016



Note:
Dredged depths are in Metres relate to Chart Datum.

REV. NO.	DATE	DESCRIPTION	CHKD.	APPD.
1				
KRISHNAPATNAM PORT COMPANY LIMITED Plot No 379, Road No:16, Jubilee Hills Hyderabad - 500 033, INDIA				
PROJECT			KRISHNAPATNAM PORT	
TITL			MASTER PLAN	
DRG. NO.			K.P.M.P-07	
REV. NO.			1	
DATE			19/04/2016	
DRP.			B.S.P.	
CHKD.			APPROVED	
APPD.			V.SURESH	
SCALE			1:1000	

Executive Engineer
Executive Division
Maritime Department
MACHILIPATNAM

Director of Ports
GOVERNMENT OF ANDHRA PRADESH
KAKINADA

Legend:-

	Port Boundary
	Berths
	Roads
	Railway Lines
	Conveyors
	cargo storage area
	Pipe lines
	Crude Oil Pipe line
	Service Corridor
	Bridges / Culverts
	Green Belt
	Maangroves Existing

AKPL has a maintaining in house Environmental Laboratory to carry out the testing of various environmental parameters.

List Of the Equipment's Procured:

1. Digital PH Meter
2. Digital TDS & EC Meter
3. Oil and Grease apparatus
4. BOD Incubator
5. Ambient Air sampler
6. Noise meter
7. DG stack sampling kit
8. Weighing Balance





Krishnapatnam Port Hydraulic Modelling Studies

Report EX 5429

Release 7.0

October 2007



Document Information

Project	Krishnapatnam Port
Report title	Hydraulic Modelling Studies
Client	Krishnapatnam Port Company Ltd
Client Representative	Mr M.A.R. Ansari
Project No.	DDR4072
Report No.	EX 5429
Project Manager	Mr T J Chesher
Project Sponsor	Dr J V Smallman

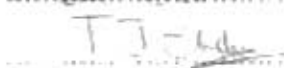
Document History

Date	Release	Prepared	Approved	Authorised	Notes
10/11/06	1.0				Progress update 1
20/12/06	2.0		tjc	jvs	Progress update 2
18/01/06	3.0	jwi	tjc	jvs	Draft Final
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24/04/07	6.0	jwi	tjc	jvs	Correction to Section 2.2.4 and summary
20/10/07	7.0	jwi	tjc	jvs	Incorporation of earlier addendum into summary and Section 3.3.3

Prepared



Approved



Authorised



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Summary

Krishnapatnam Port

Hydraulic Modelling Studies

Report EX 5429

October 2007

Howe (India) Pvt Ltd are presently undertaking engineering design and impact studies on behalf of Krishnapatnam Port Company Ltd and requested the provision of mathematical modelling studies to assess elements of these studies for the proposed new bulk handling terminal at Krishnapatnam.

The scope of work for these studies comprised tidal flow modelling and channel sedimentation, wave tranquility studies, an assessment of the adequacy of a sand trap, and the requirement for shore protection.

Conclusions and recommendations arising from this study are as follows:

Tidally induced sedimentation

Infill of the channel and port areas was assessed by simulating spring and neap tidal conditions, and calculating the transport of both sand and mud. There is abundant source of sand in the outer estuary and coast, and despite the dam upstream in the river, fine material is also abundant in the water column, hence both sand infill and siltation should be anticipated.

The mud infill prediction yields totals of 115,000m³/year in Phase I and 540,300m³/year in Phase II, and this infill is relatively evenly distributed over the deepened areas. Applying the same scaling to the sand infill yields 7,700m³/year in Phase I and 3,500m³/year in Phase II. Given the nature of the sand infill (which occurs adjacent to the deep cuts at the western end of the dredged zone and to the north of the turning circle) it is considered that this infill is an over-estimate of the longer-term rate. This is because there will be adjustment to the seabed in the areas where the sand transport is greatest, and this will reduce the sand infill over time. Note that this is not expected to be the case for infill due to silts and muds which will continue to infill the channel. In addition, as highlighted in Section 2.2.2, it is recommended that the dredged zone be extended approximately 200m upstream (west) beyond the berths (with width the same as the dredged berth, and to the same depth) as this will also reduce the amount of maintenance dredging in the berth areas.

In terms of the distribution of the sand infill Figure 2.13 highlights that the sand infill is likely to occur at the berths in Phase I, as well as there being a risk of some sedimentation on the northern side of the turning circle. In Phase II Figure 2.17 indicates that the areas prone to sand infill are in the SW areas of the port.

In respect of the distribution of mud infill, figures 2.20 and 2.21 indicate that in Phase I the distribution of muddier infill will tend to accumulate over the entire deepened area relatively evenly (especially when it is considered that ship motion will tend to redistribute some of the infill). In Phase II it is concluded from Figures 2.22 and 2.23 that the mud infill will be concentrated in the inner berths to the west of the port, with approximately 80% of the annual

Appendix 2 Derivation of representative wave conditions

A wave climate consists of many different components in terms of wave height, wave period and direction. Although a wave spectrum can be described in terms of representative parameters, such as significant wave height and mean period, all the components need to be taken into account, when the sediment transport is determined. This results in a large number of simulations and large amounts of computer time. In this appendix a procedure for wave climate filtering is presented.

Firstly the incoming waves are grouped in discrete direction intervals. The size of the angle of incidence intervals depend on the information available, but typically 10 to 15 degree bands are appropriate. For each direction interval the approximate functional relationship between the littoral drift, Q , and the wave climate, H and T , is established. From these functional relationships it is possible to derive the factors ' n ' and ' m ' in

$$Q = H^n \quad \text{for } H > H_c$$
$$Q = T^m$$

Where Q = Longshore sediment transport rate [m^3/y] and H_c and T_c are the critical values below which no sediment transport takes place.

On the basis of earlier studies, the following parameter values were determined:

$$n = 4.3$$

$$m = 1.0$$

$$H_c = 0.5m$$

These values are applied as global default values in the absence of a site specific parameter study.

Given the parameter values above a representative wave height and period is derived using the following nonlinear averaging formulae:

$$H_{rep} = \left[\sum (H) H^n \right]^{1/n} \quad \text{for } H > H_c$$

$$T_{rep} = \left[\sum (T) T^m \right]^{1/m}$$

The normalised frequencies of occurrence, $f(H)$ and $f(T)$, are obtained from the joint probability distribution of H and T .

Once H_{rep} and T_{rep} are found for the various discrete direction intervals, simulations are performed with only one set of parameters, namely H_{rep} and T_{rep} , rather than with the whole wave climate.

In effect the application of H_{rep} and T_{rep} for a given directional sector, will yield the same result, in terms of littoral drift, as the application of the entire joint probability distribution of H and T for that particular directional sector.

Although the method is based on a littoral drift situation, the techniques have been applied to other sediment process applications, such as harbour entrance sedimentation, executive bay sediment transport, port breakwater bypassing etc.

A.P. POLLUTION CONTROL BOARD
REGIONAL OFFICE NELLORE

K.L.P KUMAR
Environmental Engineer
Nellore

APSC Building,
A.K.Nagar

LT.No. N- /PUB/RU/CLR/2009-193 19.13/03/2009

To


Sri Anil Kumar,
Chief Executive Officer
M/s Krishnapatnam Port Company Ltd,
Krishnapatnam Village,
SPSR Nellore Dist

Sir,

Sub: M/s.Krishnapatnam Port Company Ltd., Krishnapatnam Village,
Nellore Dist. - Submission of copy Minutes of the public hearing
-Reg

With reference to the above, I am pleased to inform you that the Minutes of the Public Hearing held on 11.12.2008 on the proposed site of M/s Krishnapatnam Port Company Ltd., Krishnapatnam Village, SPSR Nellore Dist. for information & taking necessary action for processing F.O application at MCE & F.

Yours faithfully,


ENVIRONMENTAL ENGINEER
A.P. Pollution Control Board
REGIONAL OFFICE
NELLORE

**MINUTES OF THE ENVIRONMENTAL PUBLIC HEARING MEETING
ON THE PROPOSED DEVELOPMENT OF ALL WEATHER MULTI
PURPOSE DEEP WATER PORT - PHASE II BY M/S.
KRISHNAPATNAM PORT COMPANY LTD, AT
KRISHNAPATNAM, MUTTUKUR & EEPUR VILLAGES, MUTTUKUR
MANDAL, TAMMENAPATNAM, CHILLAKUR MANDAL, SRI
POTTI SRIRAMULU NELLORE DIST, AP HELD ON 20/02/2009.**

Panel Members :

1. Sri Ram Gopal K.,
I.A.S.,
District Collector
SPS Nellore
Chairman
2. Sri K.L.P.Kumar
Environmental Engineer,
Rep. of APPCB. Nellore

Speicial Invitee

Sri Venugopala Reddy,
RDO, Nellore

Project Authorities :

1. Sri Anil Kumar
2. Sri Jithendra Nimmagadda

At the outset, the Environmental Engineer welcomed the public and other participants and informed about the need for conducting public hearing for the proposed Phase II development of Krishnapatnam Port project as per the Ministry of Environment and Forests, GOI Notification, dated:14-09-2006. He informed that the A.P. Pollution Control Board, Regional Office, Nellore issued press notification in Telugu and English News Papers on 18/01/2009. This Notification was issued inviting objections, suggestions and opinion in writing on the proposed development of all Weather Multi Purpose Deep Water Port - Phase II by M/s. Krishnapatnam Port Company Ltd, at Krishnapatnam, Muttukur & Eepur Villages, Muttukur Mandal, Tammenapatnam, Chillakur Mandal, Sri Potti Sriramulu Nellore District and called for suggestions, views and objections, if any, from the public, bonafide residents, environmental groups and others located near the proposed project area, likely to be affected. He

requested the public gathered at the venue to offer their suggestions, views, comments and objections, if any, on the proposed project. The project salient features and the project plan layout in addition to the EIA reports and executive summaries were displayed prominently at the venue for the benefit of the public

The District Collector, SPS Nellore District, A.P informed the public that M/s. Krishnapatnam Port Company Ltd, at Krishnapatnam, Muttukur & Eepur Villages, Muttukur Mandal, Tammenapatnam, Chillakur Mandal, Sri Potti Sriramulu Nellore District is proposing to develop an all Weather Multi Purpose Deep water Port - Phase II in an area of 6111 acres and informed the public, about the significance of Public Hearing. He then requested the Public to give their suggestions, views and objections, if any, on the proposed project especially from environmental point of view. The District Collector then requested the project authorities, to explain the public about the Project activities and the measures proposed for protection of Environment .

Sri Anil Kumar, Krishnapatnam Port Company Limited, explained the project activities to the public. He stated that they have proposed to develop an all Weather Multi Purpose Deep water Port - Phase II in an area of 6111 acres. The Port Company proposes to develop Phase II of the Port in view of requirement of additional berths for importing coal, general cargo, petroleum products and containers etc,. The salient features of development of Phase II are as follows:

- Increasing the length of north break waters.
- Provision of gateway cum transmission container terminal with 5 nos of berths in the southern side and one berth on the northern side of Kandaleru Creek.
- Provision of 2 nos berths for transportation of general cargo.
- Provision of P.O.L berth at southern break waters for petroleum products.
- And 5 berths for coal handling

The Government of Andhra Pradesh has agreed for supply of 1 MLD water for the port purpose and the additional requirement of 1 MLD will be taken care through the Desalination Plant. The water requirement for fire fighting will be taken from Kandaleru Creek.

The management will augment all the Pollution Control Measures and Fire Fighting facilities and Navigation Channel already provided in Phase I to the requirements of Phase II.

He then explained the salient features of Environment Impact Studies carried within a radius of 10 Kms from the Port. The Status of Environment in the study area with respect to Marine Waters and Territorial data on land side is observed to be within the standards stipulated by the Central Pollution Control Board.

The Government of Andhra Pradesh have agreed to provide an extent of 5800 acres for the development of Port in different Phases. Till now 2418 acres have been handed over by the Government. He also informed that the Government have agreed to sanction an amount of Rs.25.85 Crores, for the rehabilitation of project affected villages as per G.O.MS.NO.58. And also sanctioned an amount of Rs.31 Crores as compensation for the 1719 fishermen families and 2000 non-fishermen families outside the project affected area. The Port Management has already constructed the houses for the rehabilitated villagers. Till now ,the company provided employment to 750 persons directly and 1500 persons indirectly. The Port Management is also taking up the Socio-Economic Activities such as Development of Schools, Hospitals, Community Hall, and Worship Places in the villages around the Port. An amount of Rs.4 Crores has already been incurred towards these purposes.

Regarding Environmental Protection Measures the CEO assured that:

- i. Greenbelt will be developed in an area of 80 Hac in Phase II with a width of 50 mts adjoining the Residential Areas and 10 to 20 mts width Greenbelt in stock yard areas.

- ii. Proposes to provide water sprinkling system at storage and different transfer points of Iron Ore and Coal with mechanization of Bulk Material Handling.
- iii. Silencers, Accoustic Measures and Anti Vibration pads will be provided to take care of the noise pollution.
- iv. The Water Pollution will be taken care by providing drainage system with necessary treatment facilities besides taking care of effluents generated, during the dredging operations and movement of ships.

The Chief Executive Officer has also assured the Monitoring of Environment during the construction and operational Phases duly allocating an amount of Rs. 2.4 Crores during construction period and Rs. 74 Lakhs Per Annum during operation period. He also stated that around 1.3 Lakh people will get benefited owing to development of industries around the Port in Nellore District. The other benefits that accrue due to development of Phase II of the Port are

- a. Employment potential during the construction and operation Phases.
- b. Development of infra structural facilities around the Port.
- c. Economic upliftment of the District as well as the State.
- d. Development of Special Economic Zones and Industries in the district.

He assured that all Environmental safe guards will be taken care of and requested the cooperation of one and all.

Sri T.Ramanaiah, Convenor, Nellore District Paryavarana Parirakshana Samithi: While welcoming the project, stated that a port was already existing since time immemorial at Krishnapatnam. Some ancient temples are located in the surrounding areas and the same have to be looked into by the Port Authorities. He expressed his displeasure on transportation of Iron Ore to the Port through the roads during First Phase operations of the Port and requested to take all possible measures in regulating the same. He also requested to take measures for controlling ground as well as surface water

pollution in the area. He also requested to solve the problems of fishermen who were affected by the project amicably. He apprehended that there would be an Environmental impact in five surrounding Mandals of the Port. He expressed his concern over the discrepancies in the implementation of packages to the project affected people and the delay in construction of fishing harbor and its location at Juvvalladinne Village by the GOAP. He then requested the Government to solve all the problems being faced by the people sympathetically. He expressed his happiness for raising the social causes of the people on the National Social Welfare Day just as coincidence.

Sri Dr Vijaya Kumar, Jana vigana Vedika: While welcoming the project, he stated that major Environmental problems have not been encountered due to operation of First Phase of the Port, but expressed his apprehension on Environmental problems during Second Phase of the Port. He opined that EIA should have been written in colloquial Jargon for better understanding of the common people. He also questioned the rationale behind the choosing of 10 Kms radius for Environmental Impact Assessment Studies. He requested the port management to take all measures in combating the Air Pollution that may be caused by way of Sulpher Dioxide, Carbon Monoxide, Particulate matter etc.,. He also opined that 100 mts Greenbelt may be provided around the Port in lieu of proposed 50 meter Greenbelt. He also stated that lot of aquatic resources present in Kandaleru Creek Catering local fishermen and requested to look into their livelihood also. He desired to develop the Port without causing Tsunami hazards this being a cyclone prone area. He also expressed happiness over the proposal of using surface water for construction instead of ground water. He stated that the Port Management has to take all measures for controlling the Marine Pollution, during dredging operations besides following international standards for controlling noise pollution. He stated that there exists some poramboke land in the surroundings and requested the Government to protect the

same. He expressed apprehension of Health and Occupational Hazards not only for workers but also to the surrounding villagers and requested to provided health care facilities to the surrounding villagers. He opined that the Budget allocated for the Protection of Environment appears meager and may be at least minimum of 10% of the project cost and emphasized need for sustainable development. He then requested to incorporate all these in EIA and modify accordingly.

Sri Dr Ramaiah, Janavigana Vedika: While welcoming the project, he stated that the Environmental issues be given due care and requested the port management to act on following:

- i. The Port authorities have to take necessary measures on the fatalities caused owing to transportation of Iron Ore during First Phase of Development.
- ii. The Port authorities have to ensure the transportation of Iron Ore in tarpaulin covered Lorries / tippers for cleaner transport.
- iii. Roads were damaged due to transportation of Iron Ore in the District and the Port Authorities have to develop dedicated road exclusively for port purposes.
- iv. The Port Authorities may provide 33% of Greenbelt in the Port area.
- v. Hospital facilities have to be provided for the local people.
- vi. Employment opportunities to be provided for all local people including landless people working in the fields.

He then requested to incorporate all these in EIA and modify accordingly.

Sri Kodandaramiah, Krishnapatnam Village: While welcoming the project, he stated that the employment is being offered for the people from whom land was taken for the Port leaving landless laborers depending on fields. He requested the Government to provide unemployment benefit on yearly basis to all the poor people till the compensation claims are settled.

Sri Narahari, Ex-State President Democratic Youth Federation of India: While welcoming the project, he stated that railway track and power plants are being established as ancillary units of Port. There is a lot of scope for industrization of the district due to development of Port. Employment generation for the local people is meager in the First Phase and requested to provide more employment in the Second Phase besides providing employment to local educated youth, landless people etc., Hospital facilities have to provided for the local people. He appealed for an all out support for development of the Port

Sri Navadi muthyalayya, Krishnapatnam Gramam: While welcoming the Project, he endorsed the views of Dr Vijaya Kumar and requested the Port Management to adopt their village. Hospital facilities has to be ensured. Special compensation packages are to be extended to the poramboke land people based on survey report without insisting for papers. Government shall ensure 24 hours power supply to the village besides ensuring package to the local skilled people.

Sri Sai Krishna, Krishnapatnam Labour Society: While welcoming the Project, requested the Government to extend the compensation packages to all the families. Hospital facilities have to be provided. Employment to be provided to the local people as villagers have lost aquatic resources and salt ponds and hence the Government has to do justice to the affected villages.

Sri Gudali Nagesh Babu, Krishnapatnam Village: While welcoming the project, he stated that the Port Authorities have to announce the packages in this hearing. Port management shall provide employment to the people and develop the Krishnapatnam Village. Port management has to provide the compensation to all ceiling and patta lands besides providing power facilities, street lights etc., in the village.

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Sri Ramalingam, Muttkur Mandal: While welcoming the project, he stated that the Port Authorities have constructed houses for the fishermen in an area of 36 ankanams. He requested employment to all the people in the area.

Sri Ganga Raju, Upa Sarpanch: While welcoming the project, he stated that the Port Authorities gave good packages to all the people. He appealed to extend the same to the spouses also and requested the employment to all the people.

Sri Chinna Polaiiah, Krishnapatnam Village : While welcoming the project, he stated that there are discrepancies in the packages offered by the Government. Many people in the villages depend on local aquatic resources. He requested extension of package to ceiling lands also. He requested the Port Management to uplift the villagers' lifestyle for using gas for domestic purposes in lieu of fire wood. Salt pond land owners are also to be provided with employment in Port.

Sri Nellore Bhaskhar, Sombhurithopu Village: While welcoming the project, he stated that the Port Authorities shall provide the employment to their villagers also and requested the extension of package to ceiling lands also.

Sri Anil Kumar, Krishnapatnam Port Company Limited, While responding to the suggestions and remarks by the public stated that the Port Management is in favor of the social cause of the people of the surrounding areas and will support all social causes for the upliftment of the village and its people. He further stated that

1. though the traffic accidents are not directly related to the Port and even then the Port Management has been providing ex-gratia to the affected victims, as vicarious responsibility.
2. The Port Management has been developing dedicated road to the Port and railway line for transportation of cargo which in turn reduces the accidents due to transportation and also helps in

controlling pollution. The dedicated road is already operational and has diverted the cargo traffic.

3. Proposal for development of a wider Greenbelt will be examined by consulting experts in the field and necessary action will be taken accordingly.
4. Air pollution levels will be monitored by engaging Environmental experts and the best possible technology will be adopted to minimize the pollution.
5. As far as possible employment opportunities will be provided to the local people duly imparting training to the local youth.
6. The road damages will be promptly attended by the Port Management.
7. Health Care facilities will be provided for the local people.
8. Necessary budget will be provided for Environmental protection every year.

He assured the public that the Port Management will work for the overall development of the area and for the cause of people.

The District Collector appreciated the public for active participation and for offering remarks and clarified the following points to the public:

- 1) The Collector informed that the Port is a basic infrastructure component for development of the region by industrialization.
- 2) The Collector directed the Management to take appropriate technical measures to protect Environment and shall see that the pollution levels be within the limits.
- 3) Regarding the rehabilitation measures, the Collector informed that the Government allotted 6111 acres of land for the Port. Out of this land 800 acres is only patta land.
- 4) District Administration will conduct Lok Adalat to settle land disputes after consulting District Judge for speedy settlement.
- 5) The Government will train the landless, packageless and all people at National Academy of Construction to upgrade their skills suitable for a job and make efforts to provide suitable employment.

- 6) The Collector said that the Health problems raised by the public are hypothetical in nature and there is no need for apprehension.
- 7) Fishing harbor proposed at Juvvaladinne is to be based on technical feasibility and the Fish landing centers will be established, as per the convenience of public.

While epitomizing the Public Hearing Proceedings, the District Collector stated that all the issues raised by the public have been recorded and will be submitted to the Central Government for perusal and for taking further necessary action.


Environmental Engineer,
APPCB
Nellore, AP

(1/1)


District Collector
Sri Potti Sriramulu Nellore, AP

A Handled.

ENVIRONMENTAL ENGINEER
& P. Pollution Control Board
REGIONAL OFFICE
NELLORE