

Ports and Logistics

Ref. No. AKPL/EHS-EC/MoEF&CC/097-2021

To

The Additional Principal Chief Conservator of Forests (C)

Ministry of Environment, Forests & Climate Change Regional office (South Eastern Zone), 1st& 2nd floor, HEPC Building, No.34, Cathedral Garden Road, Nungambakkam, Chennai-600034.

Sub: Submission of Half Yearly Compliance Report on conditions of Environmental Clearances for Phase – I, II & III Development of Krishnapatnam Port for the period of October 2020 to March 2021 – Regd.

Ref: 1. EC for Phase-I of Krishnapatnam Port Ltr. No: 10-22/2005-IA-III dated 26.07.2006.

2. EC for Phase – II of Krishnapatnam Port Ltr. No. F.No.11-62/2009-IA.III dated: 13.11.2009.

Date: 29/05/2021

3. EC for Phase -III Expansion of Krishnapatnam Port, F. No: 10-18/2016-IA.III dated 11.01.2021.

Dear Sir.

As per the General Condition no. 14 of the Environmental Clearance cited at 2, and Standard Condition, XI. Miscellaneous Condition no. (iv) of the Environmental clearance cited at 3, please find herewith attached condition wise six-monthly compliance report of Phase I, II & III developments of Krishnapatnam Port along with Environmental Monitoring Report for the period from **October 2020** to **March 2021**.

Thanking you,

Yours faithfully,

For ADANI KRISHNAPATNAM PORT LIMITED

G Venugopal Reddy

(Associate GM - EOHS)

Encl: Compliance Report on EC Conditions of Krishnapatnam Port Phase I, II & III development along with Environmental Monitoring Report for the Period of October' 2020 to March' 2021.

Copy to:

1. The Regional Director, CPCB Zonal office, Bangalore.

2. Environmental Engineer, A. P. Pollution Control Board, Regional Office, Nellore. am Port Ltd Tel +91 861 237 7999

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ADANI KRISHNAPATNAM PORT LIMITED



Ports and Logistics

COMPLIANCE REPORT ON
CONDITIONS STIPULATED IN THE
ENVIRONMENTAL CLEARANCE
PHASE - I, II & III

PERIOD: October 2020 to March 2021



Compliance Report on Conditions Stipulated in the

Phase-I Environmental Clearance

Period: Oct' 2020 to Mar' 2021



Compliance Report on Conditions of Environmental Clearance (EC) for Krishnapatnam Port Phase – I;

MoEF Order dated 26.07.2006 - Period of Report "October, 2020 to March, 2021"

S.No.	Stipulation	Compliance Status		
(A) Sp	pecific Conditions:			
1	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.	Noted and being complied.		
2	Detailed plan for protection of the 9 acres of the mangroves should be provided.	Complied The said 9 acres of Mangrove area situated in the salt lands. a) Display boards have been erected to protect this mangrove area b) Tidal exchange to the 9 acres mangrove area is ensured by constructing a pipe culvert.		
3	The fisherman and salt pan workers should be rehabilitated as per the Rules of Government of Andhra Pradesh.	Complied.		
4	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. Hydro dynamic studies were conducted by M/s. HR Wallingford, UK, shoreline monitoring & Marine biodiversity studies are being carried out regularly for shore protection.		
5	Green belt area should be developed along the project and budget earmarked.	Complied. At present Greenbelt of 191.5 Ha (Phase-I&II) has been developed along port boundary, around coal yards, avenue & median plantations.		
6	For rail and road connectivity of the project, separate application should be submitted to this Ministry.	Noted		
7	The Bay is reported to be calm for most of the days of the year. Even on the day of the visit, having a	Noted. Dredging is programmed in phases, ensures the impact, if any, will be minimal.		



	deep depression in South-West	
	Bay of Bengal, the 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.	
8	During the rough weather,	Noted and being complied.
	resulting in high flood tides,	·
	dredging operation in the estuary	
	should be stopped.	
9	Regarding the location of stock	Noted.
	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.	
10	A disaster management plan	Complied.
	covering emergency evacuation	Disaster Management Plan covers
	mechanisms etc., to deal with	emergency evacuation mechanisms to deal
	natural disaster events should be	with natural disaster events and it is
	prepared and furnished to the	regularly being updated time to time. The
	Ministry.	last update was on 11.06.2018 and
	Willingtry.	submitted to RO, MoEF&CC along with six
		monthly compliance report vide our letter
		dated 30.05.2020
11	The company must take up and	Complied.
''	earmark adequate funds for the	As part of Corporate Social Responsibility
	socio-economic development and	(CSR), socio economic development
	for welfare measures in the area	schemes and welfare measures in the form
	including drinking water supply,	of Roads, Drains, Drinking water supply by
	1	
	vocational training, and fishery	providing tankers and overhead tanks,
	related development programmes	sanitation and public health, roads and
	(like cold storages).	street lighting in the R&R Colonies, supply of
		cooking gas connections along with stoves,
		housing, medical aid, educational
		assistance, student hostel, old age homes,
		financial aid, imparting vocational trainings
		for skill development to improve
		employment opportunities, women
		empowerment etc., are being taken up for
		the 98 neighborhood villages covering 6
		Mandal with adequate funds earmarked for
		the same.
12	The fishing activities by the	Complied.
	fishermen living in the settlement	The fishermen have been rehabilitated by
	along the creek should not be	the GoAP. Mechanism for movement of



	hindered and a mechanism may be	fishing boats vis-à-vis shipping is evolved
	evolved for the movement of	keeping in mind the safety, security, ISPS
	fishing boats vis-a-vis shipping activities.	and customs requirements.
13	The Relocation of the fishermen	Complied.
	and local communities in the area	GoAP Rehabilitated the Fishermen and Local
	should be done strictly in	Communities.
	accordance with the norms	Krishnapatnam Port provided infrastructure
	prescribed by the State	facilities under CSR activities at the
	Government. The relocated	Rehabilitation Colony in the form of Roads,
	communities should be provided	Drains, drinking water supply, supply of
	with all facilities including health	cooking gas, housing, educational
	care, education, sanitation and	assistance, student hostels, old age homes,
	livelihood.	financial aid, imparting vocational trainings,
		women empowerment and public health, Malaria Control measures, Medical and
		Health camps in R&R colony covering 4
		locations Andal Nagar, Mathura nagar,
		Ramalingapuram & Simhadri Nagar.
14	The company should take up	Complied.
	green belt program in the project	Green belt of 191.5 Ha has been developed
	area including an ecological park	along port boundary, around coal yards,
	and the plan may be submitted to the Ministry within one year.	avenue & median plantations. Ecological park developed.
	the Millistry Within One year.	park developed.
15	The company may suitably modify	Complied.
15	The company may suitably modify the alignment of channel entrance	Complied. The channel alignment is firmed up after
15	, , , , , , , , , , , , , , , , , , , ,	The channel alignment is firmed up after undertaking numerical navigation
15	the alignment of channel entrance including its width, turning circle, taking into consideration the	The channel alignment is firmed up after undertaking numerical navigation simulation studies dated March, 2009 by
15	the alignment of channel entrance including its width, turning circle, taking into consideration the wave traversal, its intensity etc., to	The channel alignment is firmed up after undertaking numerical navigation
15	the alignment of channel entrance including its width, turning circle, taking into consideration the wave traversal, its intensity etc., to facilitate smoother navigation of	The channel alignment is firmed up after undertaking numerical navigation simulation studies dated March, 2009 by
	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.	The channel alignment is firmed up after undertaking numerical navigation simulation studies dated March, 2009 by M/s. HR Wallingford, UK.
15	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. The breakwater alignment and its	The channel alignment is firmed up after undertaking numerical navigation simulation studies dated March, 2009 by M/s. HR Wallingford, UK. Complied.
	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.	The channel alignment is firmed up after undertaking numerical navigation simulation studies dated March, 2009 by M/s. HR Wallingford, UK. Complied. The alignment and design of breakwaters
	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. The breakwater alignment and its design should be further modified	The channel alignment is firmed up after undertaking numerical navigation simulation studies dated March, 2009 by M/s. HR Wallingford, UK. Complied. The alignment and design of breakwaters
	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. 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	The channel alignment is firmed up after undertaking numerical navigation simulation studies dated March, 2009 by M/s. HR Wallingford, UK. Complied. The alignment and design of breakwaters are firmed up based on geotechnical
	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. 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	The channel alignment is firmed up after undertaking numerical navigation simulation studies dated March, 2009 by M/s. HR Wallingford, UK. Complied. The alignment and design of breakwaters are firmed up based on geotechnical investigations, geotechnical stability analysis, Numerical model studies under taken by M/s. HR Wallingford, UK, 3D model
	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. 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	The channel alignment is firmed up after undertaking numerical navigation simulation studies dated March, 2009 by M/s. HR Wallingford, UK. Complied. The alignment and design of breakwaters are firmed up based on geotechnical investigations, geotechnical stability analysis, Numerical model studies under taken by M/s. HR Wallingford, UK, 3D model studies of tranquility conducted at Lanka
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	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. 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.	The channel alignment is firmed up after undertaking numerical navigation simulation studies dated March, 2009 by M/s. HR Wallingford, UK. Complied. The alignment and design of breakwaters are firmed up based on geotechnical investigations, geotechnical stability analysis, Numerical model studies under taken by M/s. HR Wallingford, UK, 3D model studies of tranquility conducted at Lanka Hydraulic Laboratories, Sri Lanka and Physical model studies of breakwaters at IIT Chennai.
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16	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. 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. The height of dumping in the dumping site should be restricted to 30 cm against 90 cm proposed. The project proponent will not	The channel alignment is firmed up after undertaking numerical navigation simulation studies dated March, 2009 by M/s. HR Wallingford, UK. Complied. The alignment and design of breakwaters are firmed up based on geotechnical investigations, geotechnical stability analysis, Numerical model studies under taken by M/s. HR Wallingford, UK, 3D model studies of tranquility conducted at Lanka Hydraulic Laboratories, Sri Lanka and Physical model studies of breakwaters at IIT Chennai. Being Complied. Bathymetry of dumping site is being monitoring periodically to avoid build up. Complied.



		barricading, erection of display boards and ensuring the tidal flow.
19	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/ recycled for gardening, plantation and irrigation.	Complied. 300 Kilo Liters per day (KLD) capacity of Sewage Treatment Plant (STP) at Amenities Blocks is commissioned in July, 2011. Treated water is being utilized for the green belt development within port premises. Septic tank and soak pit systems are being followed at offices and isolated buildings.
20	Adequate plantation should be carried out along the roads of the Port premises and a green belt should be developed.	Complied.
21	Project proponent should prepare and regularly update the Disaster Management Plan from time to time.	Complied. Disaster Management Plan is regularly being updated time to time. last update was on dt:11.06.2018.
22	Fire Fighting arrangements are examined to the new proposal.	 Complied. a) Port has developed dedicated fire-fighting system with required equipment and trained professionals. b) Developed Fire contingency plan and implementing the same. c) Port Tugs are also having firefighting equipment
23	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.	Noted and being-Complied There is no withdrawal of ground water. The water requirement is being met through water from Nakkala kalava & Muthukur reservoir.
24	The project should not be commissioned till the requisite water supply and electricity to the project are provided by the PWD/Electricity Department.	Noted. Required necessary permissions like water supply and electricity supply are obtained from concern departments.
25	Specific arrangements for rainwater harvesting should be made in the project design and the rain water so harvested should be	Complied. 13 Rainwater harvesting ponds located at various locations in Port premises.



	optimally utilized. Details in this regard should be furnished to this Ministry's Regional Office at Bangalore within 3 months.	
0.6		O a sea U a d
26	The facilities to be constructed in	Complied.
	the CRZ area as part of this project	
	should be strictly in conformity	
	with the provisions of the CRZ	
	Notification, 1991 as amended	
	subsequently.	
27	Green buffer zone should be	Complied.
	provided all around the project	Green belt of 191.5 Ha has been developed
	area in consultation with local	along port boundary, around coal yards,
	forest department and the report	avenue & median plantations in consultation
	submitted to this Ministry's	with local forest department.
	Regional Office at Bangalore.	'
28	No product other than those	Noted.
	permissible in the Coastal	
	Regulation Zone Notification,	
	1991 should be stored in the	
	Coastal Regulation Zone area.	
(B) Ge	neral Conditions	
1	Construction of the proposed	Complied.
	structures should be undertaken	The construction designs / drawings are in
	meticulously conforming to the	conformity to the detailed project reports
	existing Central/local rules and	approved by GoAP and consistent with the
	regulations including Coastal	CRZ Notification.
	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.	
2	Adequate provisions for	Complied.
	infrastructure facilities such as	Adequate provisions including water supply,
	water supply, fuel, sanitation etc.,	fuel and sanitation were ensured for workers
	should be ensured for	at the time of construction.
	construction workers during the	of the time of constitution.
	construction phase of the project	
	,	
	trees/mangroves and pollution of	
7	water and the surroundings.	Complied
3	The project authorities must take	Complied.
	necessary arrangements for	a) Solid wastes are being collected,
1	disposal of solid wastes and for the	segregated and disposed as under:
	treatment of effluents by providing	



	a proper waste water treatment plant outside the CRZ area. The	S. No.	Material	Method of Disposal
	quality of treated effluents, solid wastes and noise level etc., must conform to the standards laid down	1	Biodegradabl e waste	Composting & used as manure/ Send to Pig Farms
	by the competent authorities including the Central / State Pollution Control Board and the	2	Non- Biodegradabl e waste	Disposal to approved recyclers
	Union Ministry of Environment and Forests under the Environment (Protection) Act, 1986, whichever are more stringent.	3	Used Oils/Used Batteries	Batteries are procured on buy back basis and Used oil is being disposed to approved vendors of APPCB
		c)	located outside Treated effluer norms and is re development.	nt conforms to APPCB ecycled for Green Belt are regularly being
4	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.	b) R	nvironmental larried out to ceredited by National Nationa	Monitoring is being hrough an agency ABL and approved by ults of monitoring orms and periodical its are being submitted ly. Sis reports are properly are being made inspection to the central officials during
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.	Enviro carry	engaged onmental moni	NABL accredited toring laboratory to ntal monitoring during e of the project.



6	The sand dunes and mangroves, if	Noted and being Complied.
	any, on the site should not be	
	disturbed in any way.	
7	A copy of the clearance letter will	Complied.
	be marked to the concerned	Copies of Environmental Clearance letters
	Panchayat/local NGO, if any, from	were submitted to Sarpanch, Krishnapatnam
	whom any suggestion/	Grama Panchayat, Nellore on 10 th August,
	representation has been received	2006 and to President, Nellore District
	while processing the proposal.	Mechanized Fishing Boat Operators
	write processing the proposal.	Association on 10 th August, 2006.
8	The Andhra Pradesh Pollution	Complied.
	Control Board should display a copy	Compiled.
	of the clearance letter at the	
	Regional Office, District Industries	
	Centre and Collector's	
	Office/Tehsildar's Office for 30	
	days.	
9	The funds earmarked for	Noted.
	environment protection measures	The expenditure incurred for the
	should be maintained, in a	environmental safeguards for the year
	separate account and there	
	should be no diversion of these	2021-22 is Rs. 6.0 Crores.
	funds for any other purpose. A	
	year-wise expenditure on	
	environmental safeguards should	
	be reported to this Ministry's	
	Regional Office at Bangalore and	
	the State Pollution Control Board.	
10	Full support should be extended	Noted and being complied.
	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.	
11	In case of deviation or alteration in	Noted.
	the project including the	
	implementing agency, a fresh	
	reference should be made to this	
	Ministry for modification in the	
	clearance conditions or imposition	
	dicarance conditions of imposition	



	T	
	of new ones for ensuring environmental protection.	
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.
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.
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.envfornic.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 namely Andhra Jyothi dated 11.08.2006. A copy of the advertisement was submitted to the Regional Office, Bangalore of MoEF vide our 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. Details were furnished to the MoEF&CC, Regional Office, Bangalore, vide our letter no. KP/MOEF/60 dated 16 th Feb, 2007. Financial Closure: 16.10.2006 Approval of the Project by GoAP: 17.09.2004 Start of Land Development June, 2006
16	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	Noted and being complied.



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 18thApril, 1996 in the Writ Petition No.664 of 1993 to the extent the applicable to this same are proposal.



Compliance Report on Conditions Stipulated in the

Phase-II Environmental and CRZ Clearance

Period: Oct'2020 to Mar' 2021



Compliance report on conditions of Environmental Clearance (EC) for Krishnapatnam Port for Phase – II MoEF Order dated 13.11.2009 Period of Report "October 2020 to March 2021"

	to March 2021"			
S. No.	Stipulation	Compliance Status		
5. Sp	ecific 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.	·		
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. The details are as follows: (i) Southern Boundary of proposed dredge disposal area of Phase-II shall be moved towards North to coincide with Northern Boundary of Phase-I dredge disposal area. (ii) Impact of bridges & conveyor across creeks to be reexamined to avoid impact on mangroves. (iii) To engage INCOIS or other reputed organization to monitor coastal behavior for a longer period. (iv) Runoff from Coal Stock piles shall be collected in dump ponds and recycled for dust suppression and fire protection.	Complied. (i) 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. (ii) Belt Conveyors and Road Bridge crossings have no impact on Mangroves. Railway Bridge Location is reworked to avoid disturbance to mangroves. (iii) 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. (iv) 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.		
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. a) The hydro-dynamic studies to ascertain the impact of port development on the shoreline in the stretch have been carried out through M/s.HR Wallingford, UK. No long term impact is noticed due to minimal net drift along the coast at Krishnapatnam Port.		



		b) However, as recommended in their report	
		dated October, 2007, 7 Km of coast line both North and South of the port entrance is monitored through M/s. Indian National Centre for Ocean Information Services (INCOIS), Hyderabad using satellite imagery. c) From the INCOIS report for the period October 2008 to January 2010, the coastline is found to be stable. d) Shoreline monitoring further carried out in-house also revealed that the coast line is unaffected except for seasonal variations.	
4.	Ministry has taken a decision that	Complied.	
	the plantation of mangroves shall be undertaken on an area of 50 ha. as the Phase-II of the project	 Mangroves development in 50 Ha is undertaken in the port, in the areas suggested by GoAP. 	
	spreads over 800 ha.	2. For the current year 2021-22, Rs. 2.50. lakh is budgeted towards mangrove protection.	
5.	Six monthly monitoring shall be	Complied.	
	carried out and a comparative analysis shall be made to examine for any mitigative measures required.	The Six monthly Environmental Monitoring Report of AAQ, Noise, Marine and ground water, Marine Sediment and Soil with comparative analysis are examined, findings shows all values are within limits and ensured mitigative measures implemented. Reports are being submitted to Ministry and APPCB. Same is enclosed to this report as Annexure-1.	
6.	The temperature, salinity and tidal inflow shall be monitored weekly.	Complied. Monitoring is being carried out on weekly basis with a NABL accredited consultant and same is being reported.	
7.	The greenbelt of 100 m. width shall be developed around the coal stack yard as per the request in the public hearing.	During Public Hearing it was requested to form 100 m width of green belt along boundary. MoEF has been requested vide ltr. No.: KP/MOEF/113 dt. 29 th August 2012 to modify this condition suitably. 100 m Green belt along the boundary and 20 m wide green belt around coal stack yards is being developed as requested during public hearing.	
8.	Impact on the drawl of the water	Noted and being Complied	
	from the Kandaleru Creek shall be		



	regularly monitored and report submitted to the Ministry.	Water is not drawn from Kandaleru Creek and quality of water is being monitored and reported.
9.	Continuous monitoring on disposal of dredged material shall be put in place for both pre and post monsoon periods.	Complied Bathymetry of the disposal area of dredged material i.e., the dumping grounds is being monitored periodically.
10.	No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	Noted and being Complied. only permitted construction works in CRZ area were carried out at site.
11.	Oil spills if any shall be properly collected and disposed as per the Rules.	Complied. Oil Spills, if any, shall be managed as per the approved Oil Spill Contingency Plan. We have procured Oil Boom, Skimmer and chemicals. Staff are trained to cater to Tierl Oil spills. As per Disaster Management Plan, Indian Coast Guard will be alerted to Coordinate.
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.	Complied. The approach channel is marked with lighted buoys for safe navigation. Adequate traffic control guidelines are 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.	Complied. Environmental Cell has been set-up under the supervision of the COO. Environmental review meetings are being held regularly for effective implementation of stipulated safeguards. i) Accreditation to International Management Systems a. Krishnapatnam Port is accredited to and complying with the following International management Systems: • ISO 14001 Environmental Management System • ISO 9001 Quality Management System • ISO 45001 OH & Safety Management System • ISO 28000 Specification for Security Management System for the Supply Chain.



 Following environmental protection measures are being implemented in the port:

i) To Improve AAQ:

- Installation and operation of Mechanical Dust Suppression System (MDSS) with 248 nos of sprinklers at coal stacking and wagon loading areas.
- Deploying 10 no's of Truck mounted water sprinklers for roads and transit areas.
- Deploying 2 nos. of Vacuum road sweeping machines.
- Deploying 13 nos. of heavy duty Atomized Sprayers
- Deploying Hoppers for unloading
- Mechanized coal handling at 2 berths within the land so far transferred on lease by GoAP. Conveyor covering with hood.
- Developed paved roads and resorted to mechanical sweeping of roads.
- Tarpaulin Covering of Railway wagons coal transport vehicles destined outside the port.
- Developed wind shield/screen and warehouses of 12 m height on west part of (Fast Track Process) FTP-1 and North side towards Krishnapatnam village in coal yards.
- 191.5 Ha. of Greenbelt has been developed along port boundary, around coal yards and avenue & median plantations.
- Developed firefighting contingency plan, procured necessary fire tenders and other equipment and deployed trained personnel.
- Monitoring AAQ at 7 locations through NABL accredited & MoEF approved agency.



		. Commissioned 7
		Commissioned 3 no's CAAQM Cavings and in the case 0 links depend to the case of the
		Equipment in the port & linked to
		APPCB website.
		ii) To Improve Water Quality:
		 Developed runoff drains, collections
		pits, guard ponds for coal storage
		yards with provision for recycling for
		dust suppression.
		 Developed truck wash with oil
		separator and settlement pits with
		provision for recycling for dust
		suppression.
		 Developed 300 KLD STP and treated
		effluent is recycled for dust
		suppression and green belt.
		 Monitoring of Marine water quality,
		Marine sediment quality, Surface
		Water Quality and ground water
		quality at regular intervals.
		ii) To Improve Oil Spillage Control:
		Developed Oil Spill Contingency plan
		for Tier-I spills, procured necessary
		equipment and chemicals and
		deployed trained personnel.
		 Trainings and periodical mock drills
		are being organized for the work force
		• Developed on-site emergency plan
		duly reviewed by former DGFASLI and
		submitted to District administration
		for integrating with Off-Site
		Emergency plan.
		iii) To improve occupational Health:
		• Personal Protection Equipment
		(PPEs) are provided to all the workers
		and ensuring that all the work force
		uses the same regularly
		 Periodical health checkup at the port
		dispensary is ensured for workers
		engaged in coal handling
14.	No destruction of mangrove is	Noted and being Complied.
	permitted. The project proponent	1. Developed mangroves of 50 Ha in the
	shall take up mangrove plantation /	Port area suggested by GoAP.



			- <u>-</u>	
	green belt in the project area, wherever possible. Adequate budget shall be provided in the Environment Management Plan for	2.		year 2020-21 Rs. 2.50 ed towards Mangrove
	such mangrove development.			
15.	The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purposes.	utilize	mount of Rs. 4 ed for Environr -21 and budgel	4.18 Crores has been nent management for t for 2021-22 Rs. 6.0
16.	There shall be no withdrawal of	Comp		
	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.	No g		peing drawn from the one.
17.	The Hazardous waste generated	Comp	lied.	
	shall be properly collected and handled as per the provisions of Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008.	Hazar batte per t (Mana	dous waste like ries are being co he provisions	used oils / grease and ollected and handled as of Hazardous Wasteing and Trans boundary 16.
18.	The waste water generated from	Comp	· · · · · · · · · · · · · · · · · · ·	
	the activity shall be collected,	A 30	0 KLD STP is	commissioned and is
	treated and reused properly.	opera	tional. The treat	ted effluent is recycled
		for gr	eenbelt develop	ment
19.	Sewage Treatment facility should be provided in accordance with the CRZ Notification.	Comp	lied.	
20.	No solid waste will be disposed of in	Noted	d and Complied.	
	the Coastal Regulation Zone area.	Solid	wastes are	•
	The solid waste shall be properly		gated and dispo	osed as under
	collected, segregated and disposed as per the provision of Solid Waste	S. No.	Material	Method of Disposal
	(Management and Handling) Rules, 2000.	1	Biodegradabl e waste	Composting & used as manure/ Send to Pig Farms
		2	Non- Biodegradabl e waste	Disposal to approved recyclers
		3	Used Oils/Used Batteries	Batteries are procured on buy back basis and Used oil is being disposed to



		approved vendors of APPCB
21.	Installation and operation of DG set if any shall comply with the guidelines of CPCB.	Noted. Diesel Generator Sets being used are in the range of 80 KVA to 500 KVA only as back up for emergency lighting & safety during power breakdowns and these DG sets comply with the guidelines of Central Pollution Control Board (CPCB).
22.	There shall be no reclamation / dredging of areas.	Not applicable. This condition is deleted vide MoEF letter no. F. No. 11-62/2009-IA.III Dated: 2 nd March, 2010.
23.	Air quality including the VOC shall be monitored regularly as per the guidelines of CPCB reported.	Not applicable. a) This condition pertaining to VOC monitoring is deleted vide MoEF letter F. No. 11-62/2009-IA.III Dated: 2 nd March, 2010. b) Air quality monitoring is regularly being carried out at 7 locations through an agency accredited by NABL and approved by MoEF&CC. Results of monitoring comply with the norms. Periodical Monitoring Reports are being submitted regularly to APPCB.
24.	The project proponent shall undertake green belt development.	Complied. Greenbelt has been developed progressively in the port i.e., 100 m wide greenbelt along periphery and 20 m around coal and iron ore stacks, total Greenbelt required by end of Phase-I &II is 191.5 Ha.
25.	Necessary clearances from all the concerned agencies shall be obtained before initiating the project.	Complied. Clearances from the concerned agencies like Krishnapatnam Village Panchayat, Fishing Boat Operators Association, Nellore; NOC from Revenue Department for dispensing HSD, Rail Transport Clearance from Ministry of Railways, Customs Clearance for handling of Cargo, Appointment of Krishnapatnam Port as Conservator from GoAP etc., have already been obtained as part of Phase-I development. Further, clearances from the following statutory authorities have also been obtained. NSPC, ISPS, Coast Guards and NHO.



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.	Complied. a) Oil Spill Contingency Response Plan is in place to cater to Tier –I spills. In pursuance, we have provided the following facilities. i) Spill response equipment and chemicals to handle Tier-1 Oil Spills ii) Shoreline cleaning equipment iii) A team of well trained professionals to handle Oil Spill Contingencies / emergencies with the coordination of Indian Coast Guard. b) Details were furnished to the MoEF&CC Regional Office, Bangalore, vide our letter no. KP/MoEF/PH-II/20 dated 2 nd February, 2010
27.	No hazardous chemicals shall be stored in the Coastal Regulation Zone area.	Complied. No hazardous chemicals are stored in CRZ area.
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.	Complied. Rainwater harvesting pits are developed near buildings. For the general area, rainwater harvesting ponds are also developed at suitable locations.
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 foreshore facilities shall not be constructed within the Coastal Regulation Zone area.	Noted and being complied.
	General Conditions:	
i.	Adequate provision for infrastructure facilities including water supply, fuel and sanitation must be ensured for construction workers during the construction	Noted. Adequate provisions including water supply, and sanitation are ensured for construction workers.



	phase of the project to avoid any damage to the environment.	
ii.	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.	Noted.
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. (b). No excavation or dumping shall	Noted. No excavation or dumping on private property is being carried out. Noted.
	be allowed on wetlands, forest areas or other ecologically valuable or sensitive locations.	Notes.
	(c). Excavation work shall be done in close consultation with the Soil Conservation and Watershed Development Agencies working in the area, and	Noted.
	(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.	Noted.
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.	Noted.
V.	Adequate precautions shall be taken during transportation of the construction material so that it does not affect the environment adversely.	Noted.
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	Noted.



	monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation and other environmental protection	
vii.	activities. 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.
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.
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.
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. These details were furnished to the MoEF&CC Regional Office, Bangalore, vide our letter no. KP/MoEF/PH-II/20 dated 2nd February, 2010. Financial Closure: 17.03.2009 Approval of the Project by GoAP: 04.08.2009 Start of land development work: 11.08.2009
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.
7.	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	Noted.



	Notification 1004 is 1 li	
	Notification 1994, including the amendments and rules made	
	thereafter.	
8.	All other statutory clearances such	Complied.
0.	as the approvals for storage of	Statutory clearances are obtained for
	diesel from Chief Controller of	storage of Diesel from Chief Controller of
	Explosives, Fire Department, Civil	Explosives (CCE), Fire Department, Civil
	Aviation Department, Forest	Aviation Department, and Forest
	Conservation Act, 1980 and Wildlife	Conservation Act.
	(Protection) Act, 1972 etc., shall be	
	obtained, as applicable by project	
	proponents from the respective	
	competent authorities.	Complied
9.	The project proponent shall advertise in at least two local	Complied. Advertisement was given in Two Local
	Newspapers widely circulated in	Newspapers namely Deccan Chronicle dated
	the region, one of which shall be in	22.11.2009 and Andhra Jyothi dated
	the vernacular language informing	22.11.2009. A copy of the advertisement
	that the project has been accorded	was sent to Regional Office, Bangalore of
	Environmental Clearance and	MoEF vide our Letter No.KP/MOEF/PH.II/08
	copies of clearance letters are	dated 18.01.2009.
	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	
10	this Ministry at Bangalore.	At a sad
10.	Environmental Clearance is subject to final order of the Hon'ble	Noted.
	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.	
11.	Any appeal against this	Noted.
	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.	
	•	<u>. </u>



12.	A copy of the clearance letter shall	Complied
12.	be sent by the proponent to concerned Panchayat, Zilla Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions /representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	
13.	The proponent shall upload the	Complied.
	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 levels namely; SPM, RSPM, SO2, NOx (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.	 a) Periodic monitoring of various parameters is being carried out by an agency accredited by NABL and approved by MoEF&CC. The results of monitoring comply with the norms. Results of periodic monitoring are being regularly submitted to statutory authorities. b) EMP as per the EIA report is being implemented. c) Environmental Information is being displayed on the port website. d) Six monthly Environmental Monitoring Reports are being submitted to Ministry and APPCB. Same is enclosed as Annexure-1. e) Ambient Air Quality Parameters are being displayed at the main office.
14.	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.	Complied. Six Monthly compliance report of EC Conditions for the period April 2020 to September 2020 was submitted to Regional Office of MoEF&CC and APPCB vide our letter dated.27.11.2020.
15.	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 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	Complied. Report for the previous year (FY 2019-20) was submitted to the APPCB vide letter No. KPCL/MIS(A)-APPCB/EHS/282-2020 dated 28.09.2020.



Speci	Company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail. ific Conditions vide MoEF&CC order F 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	F.No. 11-62/2009-IA.III (Pt) dated 16.03.2016 Complied.
ii	Zone area. 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. Recommendations and Conditions	Complied.
	of the APCZMA dated 14.08.2014.	
	1. The proposed constructions in the Deep Water Port at Krishnapatnam in SPSR Nellore District shall confirm to norms prescribed in CRZ Notification, 2011 issued by the Ministry of Environment and Forests, Government of India	Noted
	2. Mining of sand, rock and other substrata material is strictly prohibited, except for the activities permitted under CRZ notification, 2011. No dressing or altering of sand dunes, hills, natural features within the area covered under Coastal regulation Zone. Approved stone quarries shall be identified for extraction of stones and boulders for the construction of roads.	Noted
	3. Harvesting or drawl of ground water within the CRZ area should not be resorted either for construction or during the operational phase of the port within the CRZ area.	Noted



4. Green belt shall be developed all	Complied.
along the land boundary of the proposed project site to act as wind breaks. The treated waste water from the Sewage Treatment Plant shall be utilized for raising the green belt.	
5. Mangrove plantations existing in the Port area shall be maintained and protected. There is about 85 Ha of mangrove plantations existing in the port area. Suitable areas may be identified for planting the mangroves. Wherever, mangroves are planted in the vicinity (Private / Government lands), necessary protection shall be extended. 6. Shore protection measures shall be undertaken to prevent	Complied a) From the INCOIS report for the period
erosion of shoreline based on studies conducted by reputed national agency (INCOIS).	October 2008 to January, 2010, the coastline is found to be stable. b) Shoreline monitoring further carried out in-house also revealed that the coastline is unaffected except for seasonal variations. c) Though the shoreline is stable, still shore protection measures like green cover (casuarina plantation) along the beach is developed.
7. Necessary measures shall be taken to prevent the pollution of waters in the creek and Buckingham Canal on account of construction of new structures.	Complied
8. Neither dumping of solid waste in the creeks / BC Canal nor filling up of the creeks are permitted. The debris shall be transported and disposed at a designated disposal site authorized by APPCB.	Complied.
9. There shall be no obstruction to ensure the free flow of water in both directions in the creeks and Buckingham Canal to prevent flooding of upper catchment during rainy season.	Noted



10 7	A1 - 1
' '	Noted
make fresh reference, in case	
the proposed operations extend	
beyond the designated area.	
11. All the conditions stipulated in	Noted and Complied
-	Noted and Complied.
the NOC issued through Letter	
No. 7401/CZMA/2012, dated	
02.02.2013 shall be	
implemented. Full cooperation	
shall be extended to all	
inspecting authorities /	
organizations such as APPCB,	
CPCB and local Environment	
Protection organizations etc.	
Recommendations and Conditions	
of the APCZMA dated 02.02.2013	
	Nichad
· '	Noted.
obtained from Government /	
Director of Ports to develop the	
infrastructure facilities and	
copies of such permissions shall	
be submitted for records.	
	Alatad
	Noted.
transport (IWT) Wing of State	
irrigation Department shall be	
obtained to undertake new	
constructions and also for taking	
up any modifications of the	
, ,	
existing structures on the	
Buckingham Canal.	
3. Dredged material shall be	Complied.
utilized for reclamation of land	•
purpose of the port hinterland	
· · ·	
area subject to the suitability of	
dredged spoils. The disposal of	
balance sediment material into	
sea be undertaken as per the EIA	
report.	
·	Noted.
submit the compliance report to	
·	
the Government before	
commissioning the port and	
related facilities	
5. Full cooperation shall be I	Noted.
extended to all inspecting	
authorities / organizations such	
as APPCB, CPCB and local	



-			
		Environment Protection	
		organizations etc.	
	iii	Automatic/online monitoring system (24x7 monitoring devices) for air pollution as well as water pollution in respect of flow measurement and relevant pollutants in the treatment system to be installed. The data to be made available to the respective SPCB and in the Company's website.	l ·
F	iv	All the recommendations	Noted.
	IV	mentioned in rapid risk assessment	Noteu.
		report, disaster management plan	
		and safety guidelines shall be	
		implemented.	



Compliance Report on Conditions Stipulated in the

Environmental and CRZ clearance For Phase-III

Development of Krishnapatnam Port

Period: October 2020 to March 2021



Adani Krishnapatnam Port obtained No Objection Certificate for CRZ from APCZMA and MoEF&CC granted Environment & CRZ clearance for the "Expansion of Krishnapatnam Port (Phase-III)", the project comprises of 16 berths including 3 jetties for liquid cargo and 3 SBMs in deep waters to cater to 150.2 MTPA of various types of cargo and 1.1 MTEUsPA of container cargo with dredging of 60 Million cum. AKPL obtained Consent For Establishment (CFE) from APPCB vide order No. 633/APPCB/CFE/RO-NLR/HO/2010 dated 25.02.2021. Phase-III expansion works initiated with dredging for construction of liquid jetty at lee side of the north breakwater.

Compliance report on conditions of Environmental & CRZ Clearance for Adani Krishnapatnam Port for Phase – III MoEF&CC Order dated 11.01.2021 Period of Report "October 2020 to March 2021"

S.	Condition	Compliance Status
No.		·
A. Sp	ecific Conditions:	
(i)	The Environmental and CRZ Clearance to the project is primarily under provisions of EIA Notification, 2006 and CRZ Notification, 2011. It does not tantamount to approvals/consent/permissions etc required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals / clearances under any other Acts/Regulations or Statutes as applicable to the project.	Noted.
(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.	Noted. All the recommendations in the Environment Management Plan of the Environmental Impact Assessment report will be implemented. As part of Phase-I & II, AKPL is conducting Environmental Monitoring covering the following attributes Air, Noise, Marine water, Sediment, Turbidity at deep sea, STP water quality, Soil, Ground water, Surface water, DG set on regular basis, the results of the analysis were found to be well within the permissible limits. The six monthly



		environmental monitoring from Oct 2020 to Mar 2021 is attached as Annexure-1.
(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.	Noted and being Complied. All the construction works are being carried out as per the CRZ Notification, 2011. Only permitted activities in CRZ area are being carried out.
(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 and being Complied
(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	Noted and Being complied. Creek water monitoring shall be implemented during the construction phase to ensure the free flow of water.
(vi)	Development of green belt by native species with consultation with state forest department shall be ensured.	Noted. Port has developed 191.5 Ha. Of greenbelt including boundary plantation, avenue plantation and plantation in the storage areas. Greenbelt developed in the Port so far is of only native species, all the saplings for the greenbelt development is being developed inhouse in the nursery by collecting seeds, stem cutting etc., and purchased from the district forest department. Same shall be followed for Phase III greenbelt.
(vii)	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	Noted. APPCB issued Consent for Establishment (CFE) vide their order No. 633/APPCB/CFE/RONLR/HO/2010 dated 25.02.2021. Dredging works for construction of liquid jetty at the lee side of the North breakwater has been started after obtaining CFE from APPCB. The impact of dredging activities will be



viii)	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. Marine ecological monitoring and its	monitored by engaging NIOT as scientific body. Noted.
	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	Periodical Environmental monitoring is being carried out in Krishnapatnam Port by NABL accredited Laboratory which includes Biological parameters Primary productivity, Chlorophyll, Phytoplankton, Zooplankton in marine water, Benthos communities (Macro benthos, Epifauna, infauna) in Marine sediment. The report of the Environmental monitoring is being submitted to the APPCB regularly. In addition, NCSCM is engaged in annual Environmental Monitoring once in four years to carry out monitoring of various parameters covering, Land, Air quality, Noise, Water, Marine, Marine sediment and mangroves.
(ix)	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.	Noted. O3 Nos. Continuous Ambient Air quality monitoring stations have been installed and connected to APPCB which are located at the periphery of the Villages Gopalapuram, Thamminapatnam and Krishnapatnam.
(x)	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	Noted. All the developmental activities will be as per the Phase-III layout and proper surface drainage system along with storm water network shall be provided



(xi)	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. Suitable preventive measures be	so as to ensure proper drainage in the project area. Noted
(*1)	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.	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.
(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.	Noted. Environmental Monitoring Plan is prepared in matrix format for the Phase-III expansion. Attached as Annexure-2.
xiii)	The company shall draw up and implement Corporate Social Responsibility Plan as per the Company's Act of 2013.	Noted. Krishnapatnam Port implemented Corporate Social Responsibility over the years by providing facilities for Education, Skill development and employment, Health & welfare, Community development, women empowerment etc., Krishnapatnam Port will augment the existing CSR activities for the proposed project.
xiv)	As per the Ministry's Office Memorandum F. No. 22-65/2017-IA.III dated 30 th 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,	Noted. Public hearing for Phase-III expansion was waived as it is being developed in the existing land area of 6800 Ac. All the commitments made in the public hearing for Phase-II during 2009 are being complied. All the activities proposed in the Environment Management Plan for Phase-III along with the existing EMP including Pollution control measures, Environmental protection and conservation, R&R, Wildlife and forest conservation/protection measures including the NPV, Compensatory Afforestation, if any., as prescribed shall be implemented.



D Ch-	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.	
D. 30	6. 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 work 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.	Noted and being Complied. Only permitted construction works in CRZ area are being carried out as per the provisions of CRZ Notification, 2011. As per the Concession Agreement, GoAP shall provide power supply from the nearest substation as per the request of the company.
<u></u> .	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.	Noted and being complied. Krishnapatnam Port has obtained license from Chief Controller of Explosives to store petroleum class A & B as a retail outlet inside the Port which is valid up to 31.12.2021. Attached as Annexure-3
	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	Noted. Environmental Monitoring is being carried out by NABL accredited laboratory. Ambient Air Quality for the entire Port area and outside the port area at 7 locations is being monitored covering upwind and downwind directions.



	the project area at least at four locations covering upwind and downwind directions.	Commissioned 3 no's CAAQM Equipment's in the port & linked to APPCB website. As Phase-III is being developed in the existing Port area, the same shall be continued.
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.	Noted. In the Port operation area, Port has deployed mechanical road sweeping machines for roads, 248 nos. of sprinklers system, 13 nos. of atomizers and 10 nos. mobile water tankers for coal storage yards for dust suppression measures, wind screen towards Krishnapatnam village & Godown with 12 m height to act as dust barrier towards Chalivendram village. All the existing measures shall be augmented as per the requirement and implementation of new technologies to control air pollution shall be explored for dust control in the Port.
iii.	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.	Noted. Shrouding shall be used in the work site to enclose and act as dust curtain. Wind screens are erected in the Port to minimize the dust spread to the nearby village.
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.	Noted
V.	The Vessels shall comply the emission norms prescribed from time to time.	Noted. All the vessels calling at Krishnapatnam Port shall be verified to comply with the MARPOL regulations as prescribed from time to time.



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. 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	Noted All the DG sets at construction area shall be provided with acoustic enclosures and conforms to the rules made under the Environment (Protection) Act, 1986 like DG height, Fuel using low sulphur diesel and emission as per the prescribed norms. Noted. A detailed Traffic Management & Traffic decongestion Plan was prepared as part of Cumulative Impact Assessment for the study area covering 20 Kms and submitted to the EAC committee as Annexure to Environmental Impact Assessment. The report and recommendations shall be submitted to the concerned authorities for road augmentation and implementation of recommendations in the Plan.
	the plan which involve the participation of these departments.	
	8. 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.	Noted. Creek water monitoring shall be implemented during the construction activities on/near the creek to ensure the 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.	Noted. Appropriate measures shall be taken while undertaking digging activities to avoid any likely degradation of water quality. Dredging is planned in phased manner and Silt curtains shall be used to contain the spreading of suspended sediment during dredging within the dredging area.
iii.	No ships docking at the proposed project site will discharge its onboard 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.	Noted. No ships will be allowed to discharge its on board waste water. However, Port collects garbage, oil waste, sludge etc., through Port reception facility from the Vessel and dispose through authorized recyclers.
iv.	Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handle.	Noted. 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.
V.	The project proponents will draw up and implement a plan for the management of temperature differences between intake waters and discharge waters.	Noted Not applicable, as there is no intake and outfall proposed in the project.
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.	 Port is equipped with Tier-I, oil spill response equipment to combat spillage of oil, supported by Indian Coast Guard. Oil Spills, if any at construction area, shall be managed as per the Oil Spill Contingency Plan. We have Procured Oil Boom, Skimmer and chemicals. Trainings and periodical mock drills are being organized for the work force at work place As per Disaster Management Plan, Indian Coast Guard will be alerted to Coordinate.



ii	Total fresh water use shall get	Nahad
vii.	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.	Noted. Port has necessary approvals to withdraw 4MLD of water from Nakalakalva Irrigation drain and 1 MLD from Muthukur tank, which will meet the total fresh water requirement of the Port.
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.	Noted. Sewage Treatment Plant of 300KLD capacity (Fluidized Bed Bio Reactor technology) is under operation as part of Phase-I & II. The treated effluent from the STP is being used for greenbelt development and dust suppression. STP for proposed Phase-III expansion shall be provided as and when required.
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.	Noted. The treated domestic effluent shall be utilized for greenbelt development and dust suppression. Obtained CFE for Phase-III expansion vide their letter no. 633/APPCB/CFE/RONLR/HO/2010 dated 25.02.2021.
X.	No diversion of the natural course of the river shall be made without prior permission from the Ministry of Water resources.	Noted. The project does not involve any diversion of the natural course of the river.
xi.	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.	Noted. Port shall stockpile 2 Million Cu.m of dredged material as erosion control measure at the shore north of north breakwater as recommended by NIOT. This will act as long term protection of shore.
	1. Noise monitoring and prevention:	
i.	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Noted. AKPL engaged NABL accredited Environmental monitoring agency to monitor Noise quality for Phase-I&II and the values are well within the limits of CPCB standard. The monthly analysis reports are being submitted to APPCB, Regional office and half yearly report along with six monthly compliance reports to Regional Office, MoEF&CC and APPCB. The same shall be continued as the proposed project



		is located within the existing Port
		boundary.
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.	Noted and being complied. Noise levels are regularly being monitored and they comply to standards at construction site. All the DG sets are provided with acoustic enclosures and all other equipment & machineries are given periodic maintenance.
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.	Noted. All the DG sets are provided with acoustic enclosures and all other equipment & machineries are given periodic maintenance. Ear plugs will be provided along with PPE to all the workmen working in noise generating area.
iv.	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.	Complied. AKPL engaged NABL accredited Environmental monitoring agency to monitor Noise quality for Phase-I&II and the values are well within the limit of CPCB standard. The noise levels are being monitored at 7 locations.
	2. Energy Conservation measures:	
i.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;	Noted. During planning stage of the building constructions, possibilities for provision of roof top solar power systems shall be explored.
ii.	Provide LED lights in their offices and port areas.	Noted. All the office buildings and other operation buildings are provided with LED lights, same shall be implemented in Phase-III expansion also.
	3. Waste management:	
i.	Dredged material shall be disposed safely in the designated areas.	Noted. Dredged material shall be used for reclamation of low lying areas and the remaining material shall be disposed off in the designated disposal site beyond -20m contour identified by NIOT,
ii.	Shoreline should not be disturbed due to dumping. Periodical study on shore line changes shall be conducted and mitigation carried	Noted. The study on shoreline changes due to dumping of dredged material shall be monitored during stockpiling of 2



	out, if necessary. The details shall	million m.cum dredged material on the
	be submitted along with the six	north of north breakwater. The report
	monthly monitoring reports.	shall be submitted along with six
		monthly monitoring report.
iii.	Necessary arrangements for the	Noted and being complied.
	treatment of the effluents and solid	Port has existing 300 KLD sewage
	wastes must be made and it must	Treatment Plant to treat waste water
	be ensured that they conform to the	from domestic usage, the treated
	standards laid down by the	effluent conforms to the standards
	competent authorities including	laid by CPCB and the solid waste
	the Central or State Pollution	generated in the Port is collected,
	Control Board and under the	segregated, stored and disposed as
	Environment (Protection) Act,	per the Solid Waste Management Rules, 2016 and Environment
	1986.	(Protection) Act, 1986. The same shall
		be implemented for the Phase-III
		expansion works.
iv.	The solid wastes shall be managed	Noted and being complied.
	and disposed as per the norms of	Solid waste generated in the Port and
	the Solid Waste Management Rules,	in the construction site is collected,
	2016.	segregated, stored and disposed as
		per the Solid Waste Management
		Rules, 2016 and Environment
		(Protection) Act, 1986. The same will
		be implemented for the Phase-III
	Any wastes from construction and	expansion works.
V.	Any wastes from construction and demolition activities related thereto	Noted. Construction waste shall be used for
	shall be managed so as to strictly	levelling and site development works,
	conform to the Construction and	no demolition works, all the waste
	Demolition Waste Management	generated from Construction and
	Rules, 2016.	Demolition works will conform to the
	1.0103, 2010.	Construction and Demolition Waste
		Management Rules, 2016.
vi.	A certificate from the competent	Noted.
	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.	
vii.	Used CFLs and TFLs should be	Noted.
	properly collected and disposed	Port replaced all the CFLs and TFLs with LED lights. Used CFLs and TFLs if
	off/sent for recycling as per the	any, will be disposed off for recycling
	prevailing guidelines/ rules of the	as per the rules of the regulatory
	regulatory authority to avoid mercury contamination.	authority.
	mercury contamination.	/-



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 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 coordination of Coast should be covered.	Noted. Port has existing Oil Spill Contingency Plan in place for the existing and proposed project. Port has Tier-I Oil Spill response equipment for recovery of oil spill in coordination with ICG, Krishnapatnam and follows the guidelines given in MARPOL and Shipping Acts.
	4. Green Belt:	
i.	Green belt shall be developed in area as provided in project details with a native tree species in accordance with CPCB guidelines.	Noted. A total of 191.5 Ha. greenbelt has been developed so far in the Port as part of Phase-I & II development with native species. In Phase-III, it is proposed to develop 120 Ha. greenbelt along the Port boundary and around the coal storage areas with native species in accordance with CPCB guidelines
ii.	Top soil shall be separately stored and used in the development of green belt.	Noted
	5. 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.	Noted. Dredging is planned in phased manner so that the turbidity developed will get dispersed preventing stress on fish population.
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.	Noted. Dredging works for construction of liquid jetty at the lee side of the North breakwater has been started after obtaining CFE from APPCB vide their letter dated 25.02.2021. The impact of dredging activities will be monitored by engaging NIOT as scientific body.
iii.	A detailed marine biodiversity management plan shall be prepared through the NIO or any other institute of repute on marine, brackish water and fresh water ecology and biodiversity and	Noted.



iv.	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, 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. Marine ecology shall be monitored	Noted
IV.	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.	Notes
V.	The project proponent shall ensure that water traffic does not impact the aquatic wildlife sanctuaries that fall along the stretch of the river.	Noted. There are no aquatic wildlife sanctuaries in the vicinity of the Port. However, it is ensured that the water traffic does not impact the marine ecosystem.
	6. Public hearing and human health issues:	
i.	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.	Noted. International standard for Occupational health and safety will be maintained in the work space to prevent any undesirable environmental pollutants.
ii.	Workers shall be strictly enforced to wear personal protective equipments like dust mask, ear	Noted. Adani Krishnapatnam Port strictly enforcing all the workers, employees,



	muffs or ear plugs, whenever and wherever necessary/ required. Special visco-elastic gloves will be used by labour exposed to hazards from vibration.	stakeholders to wear PPEs in the 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 implemented and monitored by the concerned officials to prevent the occurrence of untoward incidents/ accidents.	Noted. All the employees, workers & contractors are given daily tool box 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.	Noted. Port has developed Emergency Preparedness Plan and Disaster Management Plan for the existing facilities. For Phase-III, Emergency Preparedness Plan and DMP will be prepared and implemented as per the proposed facilities.
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.	Noted. The construction workers are provided with temporary housing structures with necessary infrastructure and medical health care.
vi.	Occupational health surveillance of the workers shall be done on a regular basis.	Noted.
	7. Environment Responsibility:	
i.	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into	Noted and being complied.



	focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The	
	copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	
ii.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.	Noted and being complied. Adani Krishnapatnam Port has formed Environment Cell headed by Associate GM reports to Chief Operating Officer (COO) and Environment cell with qualified personnel formed at corporate level as well.
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.	Noted
iv.	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out. 8. Miscellaneous:	Noted.
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	Complied Advertisement was published in District Newspapers namely "Vartha" in local language & "The New Indian Express" in English dated 21.01.2021.



	two local newspapers of the District or State, of which one shall be in the vernacular language within seven	A copy of the advertisement is enclosed as Annexure-4
	days and in addition this shall also be displayed in the project proponent's website permanently.	
ii.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in tum has to display the same for 30 days from the date of receipt.	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. The copies of letters attached as Annexure-5
iii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Noted and being complied. The status of compliance of the stipulated Environment Clearance conditions along with six monthly monitoring report will be uploaded up on submission of the same to the Regional office, MoEF&CC, Chennai.
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.	Noted
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.	Complied. Report for the previous year (FY 2019-20) was submitted to the APPCB vide letter No. KPCL/MIS(A)-APPCB/EHS/282-2020 dated 28.09.2020.
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. As per the directions and sign board format of APPCB, a sign board is placed at the main gate of the company. Regularly sign board is being updated with details of effluent discharge quality, air emission levels and CFO order no. & its validity of CFO.



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.	Noted. The project is being funded in-house. Obtained CFE for Phase-III expansion vide their letter no. 633/APPCB/CFE/RO-NLR/HO/2010 dated 25.02.2021.
viii.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Noted
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.	Agreed. Public hearing exempted for the Phase-III expansion project. All the recommendations by the EAC committee, EIA/EMP shall be implemented.
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
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
xii.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
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
xiv.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full	Noted



	cooperation to the officer (s) of the	
	Regional Office by furnishing the	
	requisite data /	
	information/monitoring reports.	
XV.	The above conditions shall be	Noted
	enforced, inter-alia under the	
	provisions of the Water (Prevention	
	& Control of Pollution) Act, 1974,	
	the Air (Prevention & Control of	
	Pollution) Act, 1981, the	
	Environment (Protection) Act,	
	1986, Hazardous and Other Wastes	
	(Management and Transboundary	
	Movement) Rules, 2016 and the	
	Public Liability Insurance Act, 1991	
	along with their amendments and	
	Rules and any other orders passed	
	by the Hon'ble Supreme Court of	
	India / High Courts and any other	
	Court of Law relating to the subject	
	matter.	
xvi.	Any appeal against this EC shall lie	Noted
	with the National Green Tribunal, if	
	preferred, within a period of 30 days	
	as prescribed under Section 16 of	
	the National Green Tribunal Act,	
4505	2010.	//
	MA – NOC vide letter no.202/CRZ/IND	7/2019-30 dated 21.05.2020
Part	A: Specific Conditions:	Noted and being complied
l	The project proponent shall comply	Krishnapatnam Port strictly complies
	with all the conditions stipulated in the Environment & CRZ clearances,	to all the conditions stipulated in the
	CFEs, CFOs issued to M/s. KPCL	EC, CFE & CFO of both Phase-I & II
	Phase-I and Phase-II projects in this	projects and continue to comply the
	Phase-III project also	same for the Phase-III expansion
		project also.
ii	The proposed constructions shall	Noted.
	conform to the norms prescribed in	All the construction activities will be
	CRZ notification issued by the	carried out as per the CRZ
	Ministry of Environment and Forests,	notification, 2011.
	Government of India as per S. No.	
	19€, dated 06.01.2011.	
iii	No activity on ground shall be	Noted
	undertaken without obtaining	MoEF&CC granted Environmental &
	Environmental clearance from	CRZ clearance vide their letter no. 10-
	Ministry of Environment and Forests,	18/2016-IA.III dated 11.01.2021.
		Obtained CFE for Phase-III expansion



	Government of India as per S. No. 19(E), dated 06.01.2011.	vide their letter no. 633/APPCB/CFE/RO-NLR/HO/2010 dated 25.02.2021. Dredging works initiated for constructing Liquid jetty at the Lee side of the North breakwater.
iv	Continuous monitoring of circulation of seawater shall be carried out every six months by engaging a 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 inhouse studies undertaken as part of regular monitoring of sedimentation in the harbour channel. The monthly reports shall be submitted to APPCB.	Noted
V	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.	Noted
Vİ	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.	Noted. Dredging works for construction of liquid jetty at the lee side of the North breakwater has been started after obtaining CFE from APPCB vide their letter dated 25.02.2021. Beach nourishment with dredged material shall be carried out in Phased manner.
vii	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.	Noted. Port is not having beach roads to study the feasibility of constructing submerged breakwaters.
viii	The applicant shall ensure that continuous monitoring systems of all likely affected parameters including air/fish/flora/fauna/water	Noted. Port engaged NABL accredited and MoEF&CC approved Environmental monitoring laboratory to monitor



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	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.	Environmental parameters: Ambient Air quality, Noise quality, Water, Marine water, Marine sediment, ground water, soil, STP water quality and DG set emission quality are being monitored regularly and the analysis reports are submitted to APPCB. Since Phase-III expansion is being developed in the existing Port area, the parameters will be revised if required and submitted to APPCB & NIO.
ix	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.	Noted
X	The project proponent while executing this project shall not disturb any of the ecologically sensitive areas like mangroves, sand heaps, sand dunes etc.	Noted. No mangroves shall be destructed during construction activities of Phase-III.
xi	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.	Noted. All the construction work shall be carried out in the notified port limit. Port is permitted for NDZ area as per the approved plan.
xii	Priority to be given to the maintenance of storm water drains from the surrounding area to prevent possible flooding of the surrounding areas.	Noted. Port started dredging works for constructing Liquid jetty at the Lee side of the North breakwater. Proper storm water drain system is planned for the construction area to prevent flooding.
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.	Noted. Mechanized port operation is proposed in the Phase-III expansion.
xiv	Raising and maintenance of greenbelt within and outside the port area to be taken up on priority and necessary assistance shall be	Noted Shoreline plantation with native species like casuarina trees are



	extended to the local agencies	carried out as part of 100m boundary
	involved in the implementation of	plantation.
	afforestation programme.	
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.	Noted
xvi	Dredged material shall be utilized for	Noted.
	nourishment of beaches.	Dredging works for construction of liquid jetty at the lee side of the North breakwater has been started after obtaining CFE from APPCB vide their letter dated 25.02.2021. Beach nourishment with dredged material shall be carried out in Phased manner.
xvii	Full cooperation shall be extended to	Noted
	all inspecting authorities/organizations such as APPCB, MoEF&CC, CPCB and local Environment Protection Organizations.	
xviii	A team of APPCB scientists and	Noted
	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.	
xix	The project activity shall be carried	Noted.
	out strictly as per the provisions of CRZ Notification, 2011, and shall not affect the coastal ecology of the area including flora and fauna.	All the construction activities shall be carried out as per the CRZ notification, 2011 without affecting the coastal ecology of the area.
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.	Noted. No mangroves shall be destructed in Phase-III expansion works both during construction and operation phase.
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	Noted
	such purpose.	



xxii	All conditions/recommendations	Noted	
XXII		INOTEO	
	stipulated by other statutory		
	authorities shall strictly be complied		
<u></u>	with, as may be applicable.	Al at a d	
xxiii	The project proponent shall obtain	Noted.	
	all necessary clearances/permissions	Obtained Petroleum Explosive License	
	from the concerned authorities as	from PESO for construction and	
	applicable.	handling of liquid cargo dated	
		18.01.2021.	
xxiv	'Consent for Establishment' and CFO	Noted	
	as may be applicable, shall be	Obtained CFE for Phase-III expansion	
	obtained from State Pollution	vide their letter no.	
	Control Board under the Air	633/APPCB/CFE/RO-NLR/HO/2010	
	(Prevention and Control of Pollution)	dated 25.02.2021.	
	Act, 1981 and the Water (Prevention		
	and Control of Pollution) Act, 1974.		
xxv	All waste (liquid and solid) arising	Noted.	
	from the proposed development will	All the solid waste generated from the	
	be disposed of as per the norms	construction area are being collected,	
	prescribed by State Pollution Control	segregated and disposed as per the	
	Board. There shall not be any	Solid Waste Management Rules, 2016.	
	disposal of untreated effluent into	_	
	the sea/coastal water bodies.		
xxvi	No permanent labour camp,	Noted.	
	machinery and material storage shall	Temporary shelter for labours and	
	be allowed in CRZ area.	material storage are provided in CRZ	
		area, only during construction phase.	
xxvi	There shall no groundwater	Noted.	
i	withdrawal within CRZ without prior	Port is not withdrawing groundwater	
	approval of the State Groundwater	in the CRZ area.	
	Authority.		
xxvi	Disposal of muck during	Noted.	
ii	construction phase should not	Dredging works for construction of	
	create any adverse effect on the	liquid jetty at the lee side of the North	
	neighboring communities and be	breakwater has been started. The	
	disposed taking the necessary	dredged material will be used for	
	precautions for general safety and	reclamation of low lying land and	
	health aspects of people, only in	beach nourishment at north of north	
	approved sites with the approval of	breakwater as shoreline protection.	
	competent authority.		
Part I	B: General Conditions		
i.	A copy of the clearance letter shall	Complied.	
	also be displayed on the website of	A copy of the Environmental	
	the AP Pollution Control Board. The	clearance is submitted to the	
	clearance letter shall also be	Environmental Engineer, APPCB	
	displayed at the AP Pollution	Regional office vide our letter dated	
	Control Board Regional Office,	12.01.2021, the District Collector vide	
	District Industries centre and	our letter dated 03.02.2021 and local	
	טואנווענ וווטטאנוופא לפוונופ מווט		



	District Collector office/Mandal	panchayats vide letter dated		
	Revenue Office for 30 days.	01.02.2021. The copies of letter		
	•	attached as Annexure-5		
i.	The funds earmarked for	Noted		
	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			
	(APCZMA) and AP Pollution control			
	Board Regional office.			
ii.	Concealing factual data by the	Noted		
'''	project proponent, any officer behalf	110000		
	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.			
iii.	The above stipulations would be	Noted.		
''''	enforced among others under the	140000		
	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.			
iv.	Full co-operation shall be extended	Noted		
	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.			
	011100.			



V.	In the case of any change(s) in the	Noted
	scope of the project, the project	
	would require a fresh appraisal by	
	the APCZMA.	
vi.	The APCZMA reserves the right to	Noted
	add additional safeguard measures	
	subsequently, if found necessary,	
	and to take action including revoking	
	of the environment clearance under	
	the provisions of the Environmental	
	l . ·	
	(Protection) Act, 1986, to ensure	
	effective implementation of the	
	suggested safeguard measures in a	
	time bound and satisfactory manner.	
vii.	All other statutory clearances shall	Noted.
	be obtained, as applicable by project	
	proponents from the respective	
	competent authorities.	
viii.	The project proponent should	Complied
	advertise in at least two local	Advertisement was published in
	Newspapers widely circulated in the	District Newspapers namely "Vartha"
	region, one of which shall be in the	& "The New Indian Express" dated
	vernacular language informing that	21.01.2021.
	the project has been accorded CRZ	A copy of the advertisement was
	clearance and copies of clearance	enclosed as Annexure-4
	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.	
ix.	This clearance is subject to any order	Noted
17.	1	Notes
	passed by any Hon'ble Courts, as may	
	be applicable to this project.	Complied
X.	A copy of the clearance letter shall	Complied.
	be sent by the proponent to	A copy of the Environmental
	concerned panchayat, Zilla	clearance is submitted to the
	Parisad/Municipal corporation,	Environmental Engineer, APPCB
	Urban Local Body and the Local NGO,	
	if any, from whom	12.01.2021, the District Collector vide
	suggestions/representations, if any,	our letter dated 03.02.2021 and local
	were received while processing the	panchayats vide letter dated
	proposal. The clearance letter shall	01.02.2021. The Environment & CRZ
	also be put on the website of the	clearance letter is displayed in the
	company by the proponent.	
•	• • • •	



		Port website. The copies of letter attached as Annexure-5 .
xi.	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.	Noted. The status of compliance of the stipulated Environment Clearance conditions along with six monthly monitoring report will be uploaded in the website of the company up on submission of the same to the Regional office, MoEF&CC, Chennai, APPCB, Regional office.
xii.	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.	Complied. Report for the previous year (FY 2019-20) was submitted to the APPCB vide letter No. KPCL/MIS(A)-APPCB/EHS/282-2020 dated 28.09.2020. The same is being uploaded in the company's website time to time along with the status of compliance of clearance conditions.

ADANI KRISHNAPATNAM PORT LIMITED



ENVIRONMENTAL MONITORING REPORT FOR THE PERIOD OCT'20 to MAR'21

O	cť	20	to	Mar	21

CHAPTER - 1 INTRODUCTION

1.0 INTRODUCTION

Krishnapatnam Port is located at Krishnapatnam in Muthukuru Mandal, "Sri Potti Sri Ramulu" Nellore District, Andhra Pradesh on the East Coast of India at Latitude $14^{\circ}15'10$ " N and Longitude 80° 08' 05" E on the Northern bank of Khandaleru (Upputeru). Krishnapatnam Port is situated at about 180 Km North of Chennai (Madras) Port.

The Environmental Clearance (EC) was accorded for the Phase – I development of this Port by the MoEF, GoI vide Ir no. 10-22/2005-IA-III dated: 26th July, 2006 and the CFE was accorded by the APPCB vide Order No. APPCB/VJA/NLR/633/HO/2004/9 - 467 dt. 25.05.2004. The Phase - I facility was commissioned during the year 2009.

For the Phase II development of this Port, the Environmental Clearance has been accorded by the MoEF, GoI vide F. No. 11 – 62 / 2009 – IA.III dated: 13th November, 2009 and MoEF&CC extended vide Oder even No. dated 18.08.2015 & 16.04.2018 and amended by MoEF&CC vide order dt 16.3.2016. The CFE accorded by the APPCB vide Order No. 633/PCB/CFE/RO-NLR/HO/2010-390 dt. 08.05.2010 is extended vide APPCB Order dt 02.07.2015 and amended vide APPCB's Orders dt. 14.03.2014, 02.07.2015, 10.02.2016, 04.01.2017 & 22.02.2018. The EC and CFE accorded for Phases I & II Development of Krishnapatnam Port caters to 17 berths and necessary infrastructure with a capacity to handle 72.3 MTPA of non-container cargo and 3.3 MTEUsPA of container cargo.

CFO The has APPCB vide Order No. been accorded by the APPCB/VSP/VJA/NLR/633/CFO/HO/2009-582 dt. 08.06.2009 and same being periodically renewed. The APPCB has accorded latest CFO renewal Order, vide APPCB's Order No. APPCB/VJA/NLR/11344/CFO/HO/2018 dt. 29.07.2018 & 30.08.2018 which is valid till 31st October, 2023. Further, it is amended for additional one berth and increased coal cargo capacity from 46.5 MTPA to 51 MTPA. As of now, 12 berths out of 17 berths were constructed with necessary infrastructure with capacity to handle 68 MTPA of noncontainer cargo and 2.0 MTEUsPA of container cargo are commissioned and being operated.

Adani Ports and Special Economic Zone (APSEZ), a part of globally diversified Adani Group, the largest port developer and operator in India. APSEZ acquired KPCL from CVR Group and other investors and changed to Adani Krishnapatnam Port Limited (AKPL).

MoEF&CC granted Environment & CRZ clearance for the "Expansion of Krishnapatnam Port (Phase-III)" vide File No: 1018/2016-IA.III dated 11.01.2021, the project comprising of 16 berths including 3 jetties for liquid cargo and 3 SBMs in deep waters to cater 150.2 MTPA of various types of cargo and 1.1 MTEUsPA of container cargo with dredging of 60 Million cum. AKPL obtained CFE vide order no. 633/APPCB/CFE/RO-NLR/HO/2010 dated 25.02.2021.

The general Layout plan of the Krishnapatnam Port Phases I & II development is given in Figure–II.

The Environmental Management Plan (EMP) envisaged in the Environmental Impact Assessment (EIA) Report is being scrupulously implemented and augment as needed. Monitoring of Environmental parameters viz., Ambient Air, Ambient Noise, Water Quality (Ground, Surface & Marine), Marine Ecology and Soil as envisaged is being undertaken regularly through an agency having NABL accreditation and approved by MoEF&CC. The results of monitoring comply with the statutory standards. Periodical Reports with results of monitoring thereof are being regularly submitted regularly to the APPCB and the MoEF&CC, RO as stipulated in the EC/CFE/CFO accorded.

1.1 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: • PM10 • PM2.5 • S02 • NOx • NH ₃	Monthly Once at each location
2.	Marine Water	Collected at four locations and analyzed the following parameters: • pH • Temperature • Salinity • Density • Turbidity • Total Dissolved solids • Total Suspended solids • Potassium	Weekly Once at each location

		Flanksiaal Carabase bulks	1
		Electrical ConductivityTotal Dissolved solids	
		Total alkalinityChlorides	
		• Sodium	
		Potassium The state of th	
		• Fluorides	
		Nitrates	
		• Cyanide	
		Total Hardness	
		Salinity	
		• Sulphates	
		• COD	
		Mercury	
		• Cadmium	
		Arsenic	
		Selenium	
		• Iron	
		• Lead	
		• Zink	
		Chromium	
		Total Coliforms	
		Fecal coliforms	
8.	Soil Quality	Collected at Four locations	Once in six months
	Monitoring	• 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	

Figure:1

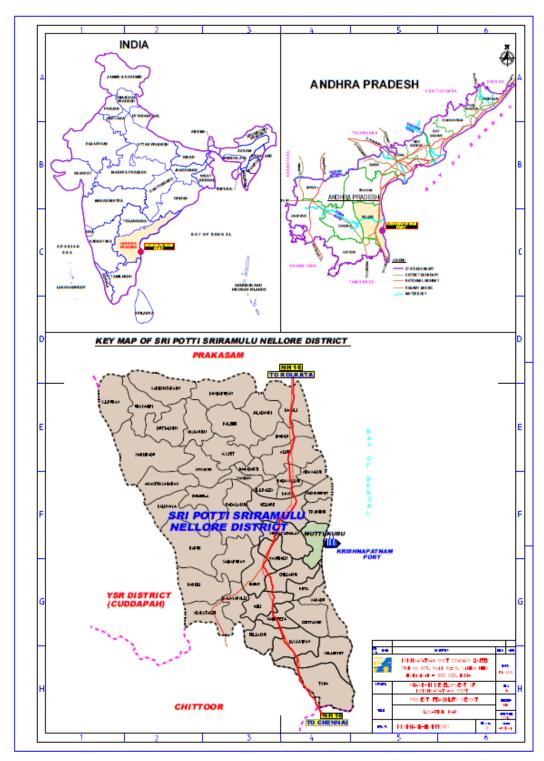
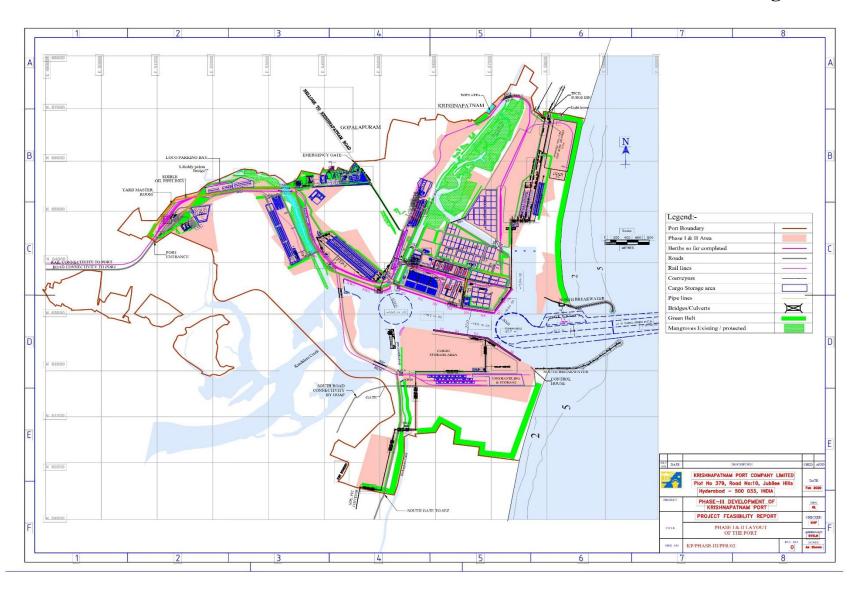


Figure:2



CHAPTER - 2 METHODOLOGY

2.0 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		
	Ambient Air Quality	PM ₁₀	Respirable Dust Sampler (Gravimetric method)	IS-5182 (Part-XXIII)
1.		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)
		NH3	Indophenol Blue Method	-
2.	Marine Water	APHA Mei	thods 23 rd Edition, 20	17
3.	Marine Sediment	ASTM Method		
4.	STP Inlet and Outlet	APHA Methods 23 rd Edition, 2017		
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 23 rd Edition, 2017		
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).		

Oct'20 – Mar'21

CHAPTER - 3 ENVIRONMENTAL MONITORING STUDIES

3.0 ENVIRONMENTAL MONITORING STUDIES - October'20 to Mar'2021

S.No	ATTRIBUTE	SCOPE	STUDIES CARRIED OUT
1.	Ambient Air Quality	Collection of ambient	Ambient Air samples collected at
		air at Seven locations in	7 locations for PM10, PM2.5,
		and outside of port	SO2, NOx & NH3 (monthly once)
		premises	for the period of 01.10.2020 to
			31.03.2021.
2.	Marine Water and	Collection of Marine	Marine Water samples from Port
	Surface Water	Water at six locations.	Entrance, Turning Circle, Coal
	Quality	• Port Entrance	Berth and Reclamation Area are
		(Approach Channel)	collection weekly once. Samples
		Turning Circle	for Buckingham Canal and
		Coal Berth	Khandaleru Creek are collected
		• Reclamation Area	monthly once. All the samples
		(Mutable)	are tested for Physical, Chemical
		Buckingham Canal	and Microbiological parameters
		Khandaleru Creek	Collected for the period of
			01.10.2020 to 31.03.2021.
3.	Marine Water	Collection of Marine	Marine Water samples from Port
	Quality for Turbidity	Water at seven	Entrance, Turning Circle, Coal
		locations.	Berth and Reclamation Area are
		• Port Entrance	collection weekly once. Deep
		(Approach Channel)	Sea water Samples are collected
		Turning Circle	monthly once.
		Coal Berth	Collected for the period of
		• Reclamation Area	01.10.2020 to 31.03.2021.
		(Mutable)	
		• 14°19′26″N &	
		80°15′43″E	
		• 14°16′52″N	

		&80°17′40″E	
		• 14°16′11″N &	
		80°17'40"E	
		00 17 10 2	
4.	Marine Sediment	Collected at	Collected at four locations and
''	Triorine Sediment	Port Entrance	analyzed for the hereunder
		(Approach Channel)	weekly once.
			Sediment Compositions
		Turning Circle Cast Basth	
		Coal Berth	• pH
		• Reclamation Area	Nitrogen
		(Mutable)	Phosphorus
			 Potassium
			• Sodium
			Benthos Communities
			Heavy Metals
			Collected for the period of
			01.10.2020 to 31.03.2021.
5.	Noise Level	Noise levels were noted	Day and Night Noise levels were
	Intensity	at	noted at
		Seven locations inside	Zero Point
		and outside port	 Thamminapatnam
		premises.	CVR Building
			 Gopalpuram
			Chalivendram
			Krishnapatnam
			Light House Siding
			Collected Noise Levels at
			seven locations for day and
			night periods once in the
			month from 01.10.2020 to
			31.03.2021.

6.	DG Set Emission	Emission Quality was	Emission Quality was conducted
0.		•	·
	Quality	conducted to DG Sets	to DG Sets of port premises, ie
		of port premises	PM, NOx, HC & CO (Six months
			once) for the period of
			01.10.2020 to 31.03.2021.
7.	Ground Water	Collected at	Ground Water samples from Port
	Quality Monitoring	Port Site	site, Krishnapatnam village,
		 Krishnapatnam 	South side of the port,
		village	Gopalapuram village Bore wells
		• South side of the	water samples are collected half
		port	yearly once. All the samples are
		Gopalapuram village	tested for Physical, Chemical and
			Microbiological parameters
			Collected for the period of
			01.10.2020 to 31.03.2021.
8.	STP Inlet and	Inlet and Outlet	STP Inlet and Outlet samples
	Outlet	samples are collected	are collected monthly once.
		from STP at Port	Collected for the period of
			01.10.2020 to 31.03.2021.
9.	Soil Quality	Collection of Soil	Soil samples from Storage area
		sample at Two	towards west, Storage area at
		locations.	Port Area are collection half
		• Storage area	yearly once. All the samples are
		towards west	tested for Physical, Chemical
		Buckingham	parameters.
		canal	Collected for the period of
		• Storage area at	01.10.2020 to 31.03.2021.
		Port	
1			

3.1 AMBIENT AIR QUALITY MONITORING

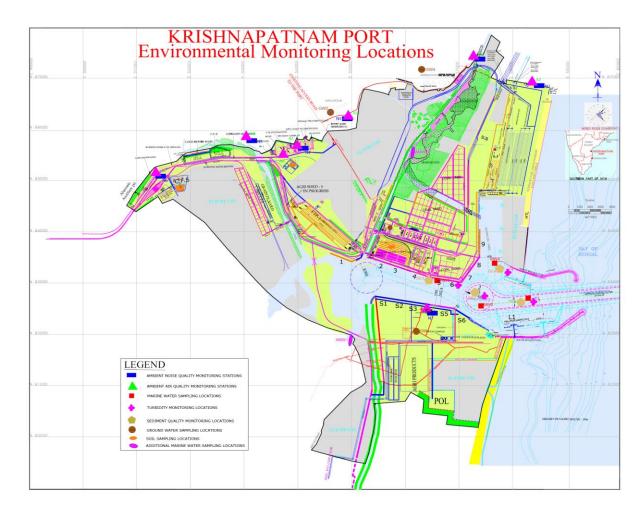
The ambient air quality was assessed through a network of 07 AAQM stations within 10 Km radius of project site (5 stations in buffer zone &2 location inside plant area).

The locations of ambient air quality stations are shown in Fig – 3 is given below:

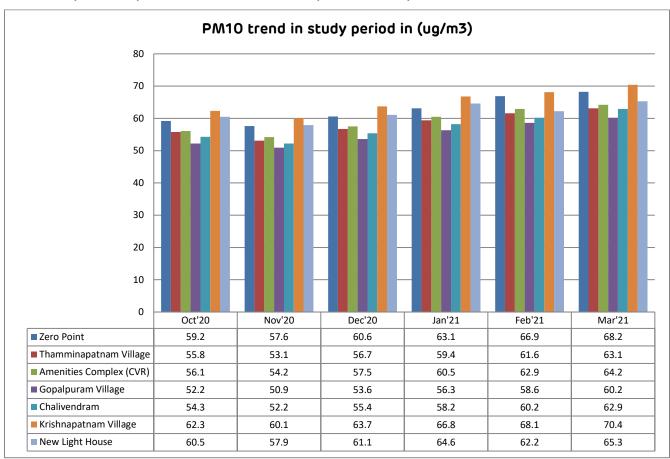
Table No- 2
DETAILS OF AMBIENT AIR QUALITY MONITORING LOCATIONS

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 3. AMBIENT AIR SAMPLING STATIONS LOCATION MAP

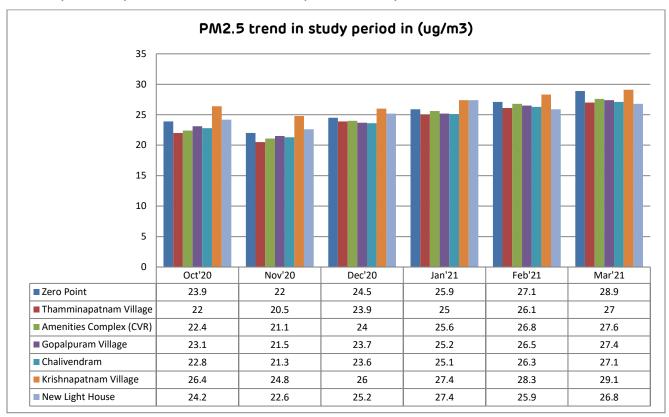


Summary of Analysis of Ambient Air Quality in the Study Area - PM10 for Oct'20 to Mar'21



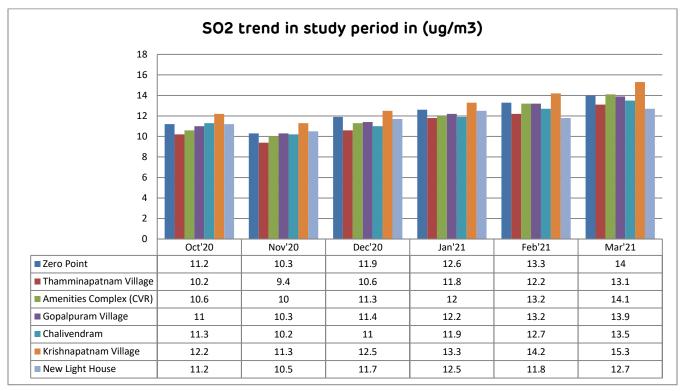
- PM10 varied between 50.9 to 70.4 μg/m,³ Minimum: Gopalpuram village
- ❖ Maximum: Krishnapatnam village, NAAQ Standard: 100µg/m³

Summary of Analysis of Ambient Air Quality in the Study Area - PM2.5 for Oct'20 to Mar'21



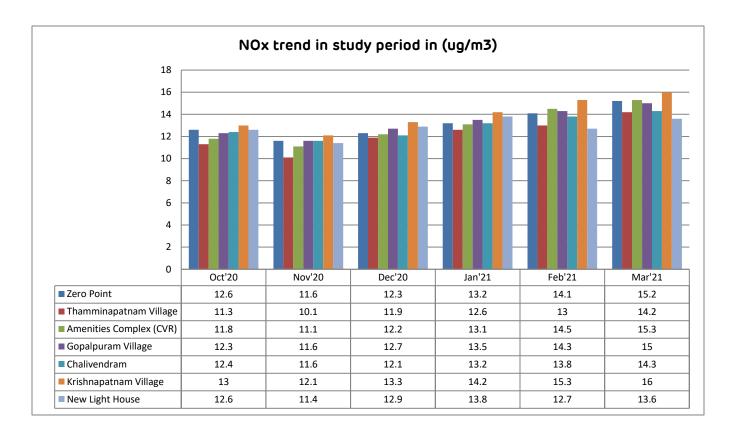
- PM_{2.5} Varied between 20.5 to 29.1 μg/m³, Minimum: Thamminapatnam village
- Maximum; Krishnapatnam village, NAAQ Standard: 60 μg/m³

Summary of Analysis of Ambient Air Quality in the Study Area - SO2 for Oct'20 to Mar'21



- SO₂ Varied between 9.4 to 15.3 μ g/m^{3,} Minimum : Thamminapatnam village
- * Maximum : Krishnapatnam village, NAAQ Standard : 80 μg/m³

Summary of Analysis of Ambient Air Quality in the Study Area - NOx for Oct'20 to Mar'21



- NOx Varied between 10.1 to 16.0 μg/m³, Minimum : Thamminapatnam village
- Maximum : Krishnapatnam village, NAAQ Standards : 80 μg/m³

3.2 AMBIENT NOISE LEVEL INTENSITY

Collection of ambient noise levels at six locations (5 locations at nearby villages & 1 location near plant). Spot noise levels where measured with a precalibrated Noise Level Meter – SL Lutron 4001 for day and night periods.

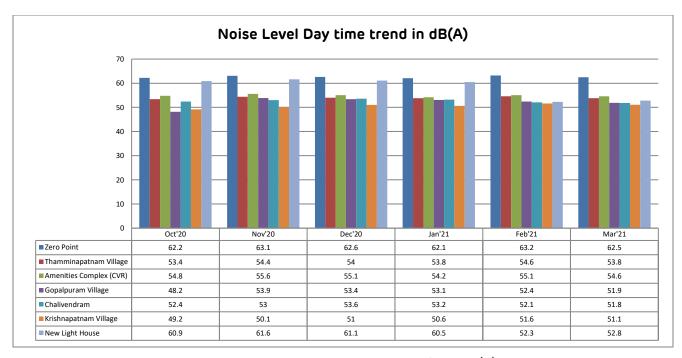
Table No-3
DETAILS OF NOISE MONITORING LOCATIONS

STATION CODE	LOCATIONS	DIRECTION		
STATION CODE	LOCATIONS	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		

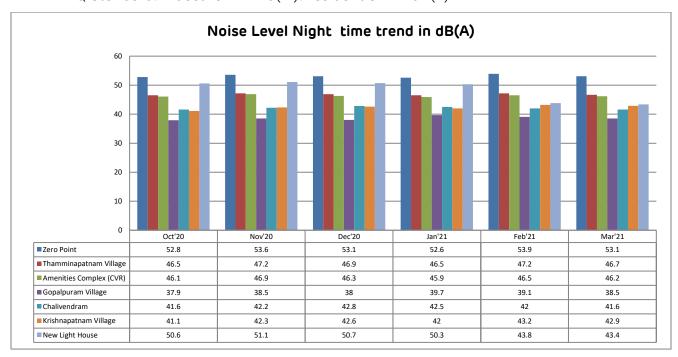
The noise monitoring locations are depicted in Fig - 5

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	CPCB norms Leq (Dba)		
Location code	Setting	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	



- \diamond Industrial Day time noise level varied between 52.3 to 63.2 dB(A)
- Residential Day time noise level varied between 48.2 to 53.9 dB(A)
- NAAQ Standard: Industrial -75 Db(A):Residential -55dB(A)



- Industrial Night time noise level varied between 43.4 to 53.9 dB(A)
- Residential Night time noise level varied between 37.9 to 43.2 db(A)
- NAAQ Standard: Industrial -70 Db(A) ,Residential-45 dB(A)

3.3 Marine Water and Surface Water Quality

3.3.1 <u>Sampling Locations</u>

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**.

Table No- 4

MARINE WATER QUALITY AND

SURFACE WATER MONITORING LOCATIONS

Location Code	Location		
Marine Water Quality Sa	ampling 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

<u>Standard Operating Procedures (SOP) For Water Sampling</u>

Parameter	Sample Collecti	on	Sample Size	Storage/ Preservation		
рН	Grab sampling Plastic / container	glass	50 ml	Refrigeration, can be stored for 7 days		
Electrical Conductivity	Grab sampling Plastic / container	glass	50 mI	Refrigeration, can be stored for 7 days		
Total suspended solids	Grab sampling Plastic / container	glass	100 ml	Refrigeration, can be stored for 7 days		
Total Dissolved Solids	Grab sampling Plastic / container	glass	100 ml	Refrigeration, can be stored for 7 days		
BOD	Grab sampling Plastic / container	glass	500 ml	Refrigeration, 48 hrs		
Hardness	Grab sampling Plastic / container	glass	100 ml	Add HNO₃ to pH<2, refrigeration; 6 months		
Chlorides	Grab sampling Plastic / container	glass	50 ml	Not required; 28 days		
Sulphates	Grab sampling Plastic / container	glass	100 ml	Refrigeration; 28 days		
Nitrates	Plastic containers	;	100 ml	Refrigeration; 48 hrs		
Fluorides	Plastic conta only	iners	100 ml	Not required; 28 days		
Alkalinity	Plastic/ containers	glass	100 ml	Refrigeration; 14 days		
Ammonia	containers	glass	100 ml	Add H ₂ SO ₄ to pH>2, refrigeration, 28 days		
Heavy Metals (Ar, Cd, Mn, Cu, Fe, Zn, Pb etc.)	with 1+1 HNO ₃	rinse	500 ml	Filter, add HNO₃ to pH>2; Grab sample; 6 months		

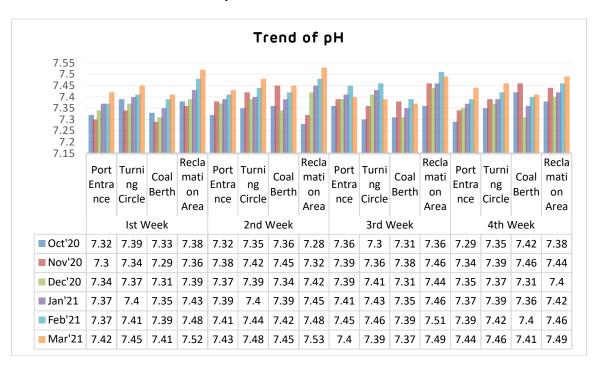
Source: Standard Methods for the Examination of Water and Wastewater, Published By APHA, 27nd Edition, 2017

The analytical techniques used for water analysis is given in the table hereunder:

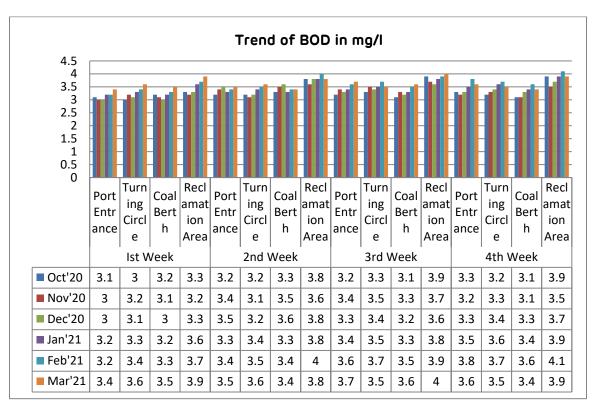
Table No- 6Analytical Techniques forWater Analysis

S.No	Parameter	Method	
1.	рН	APHA, 4500-H+B, 23rd Ed., 2017	
2.	Colour	APHA, 2120-C/2120-B, 23rd Ed., 2017	
3.	Odour	APHA, 2150, 23rd Ed., 2017	
4.	Temperature	APHA, 2550-A+B, 23rd Ed., 2017	
5.	Oil & Grease	APHA, 5520-D, 23rd Ed., 2017	
6.	Total Suspended Solids	APHA, 2540-D, 23rd Ed., 2017	
7.	Total Dissolved Solids	APHA, 2540-C, 23rd Ed., 2017	
8.	Total Residual Chlorine	APHA, 4500-Cl B, 23rd Ed., 2017	
9.	Biochemical Oxygen	APHA, 5210-B, 23rd Ed., 2017	
	Demand	4500-OC, 23rd Ed.,	
10.	Chemical Oxygen Demand	APHA, 5220-B, 23rd Ed., 2017	
11.	Free Ammonia	IS 3025	
12.	Ammonical Nitrogen	APHA, 4500-NH3 B, 23rd Ed., 2017	
13.	Total Kjeldhal Nitrogen	APHA, 4500-Norg B, 23rd Ed., 2017	
14.	Zinc	APHA, 3111-B, 23rd Ed., 2017	
15.	.ead APHA, 3111-B, 23rd Ed., 2017		
16.	Cadmium	APHA, 3111-B, 23rd Ed., 2017	
17.	Mercury	APHA, 3112-B, 23rd Ed., 2017	
18.	Arsenic	APHA, 3114-B, 23rd Ed., 2017	
19.	Copper	APHA, 3111-B, 23rd Ed., 2017	
20.	Nickel	APHA, 3111-B, 23rd Ed., 2017	
21.	Cyanide	APHA, 4500-CNB, 23rd Ed., 20172	
22.	Fluoride	APHA, 4500-FD, 23rd Ed., 2017 (SPANDS Methods)	
23.	Phosphates	APHA, 4500-PD, 23rd Ed., 2017	
24.	Sulphates	APHA, 4500-S04 ²⁻ E, 23rd Ed., 2017	
25.	Sulphide	APHA, 4500-S ²⁻ , 23rd Ed., 2017	
26.	Manganese	APHA, 3111-B, 23rd Ed., 2017	
27.	Iron	APHA, 3111-B, 23rd Ed., 2017	
28.	Phenolic Compounds	APHA, 5530-B, 23rd Ed., 2017	
29.	Bio Assay Test	IS 6582	

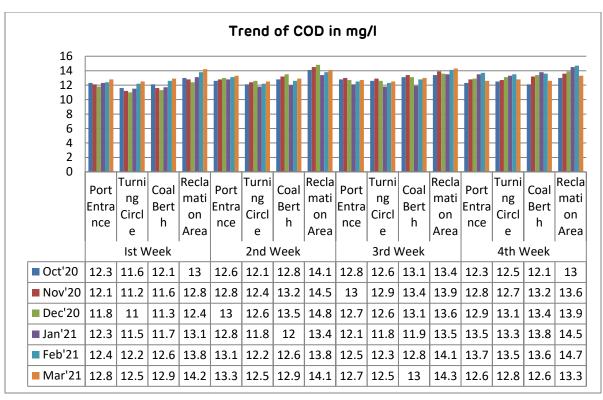
Status of Marine water Quality



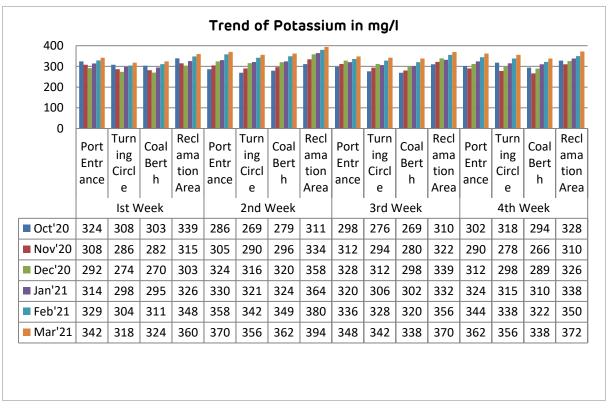
pH of Marine water varied between 7.28 to 7.53



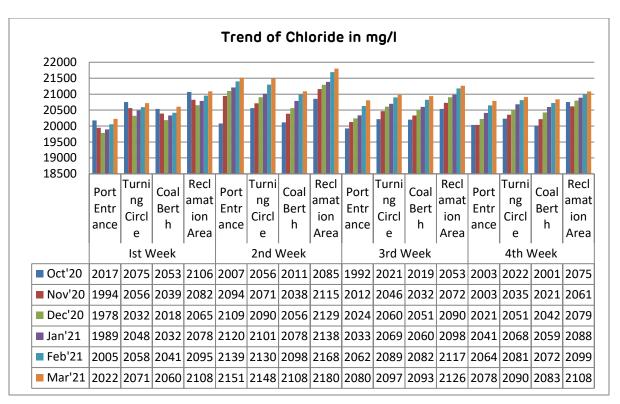
BOD of Marine Water varied between 3.0 to 4.1 mg/l



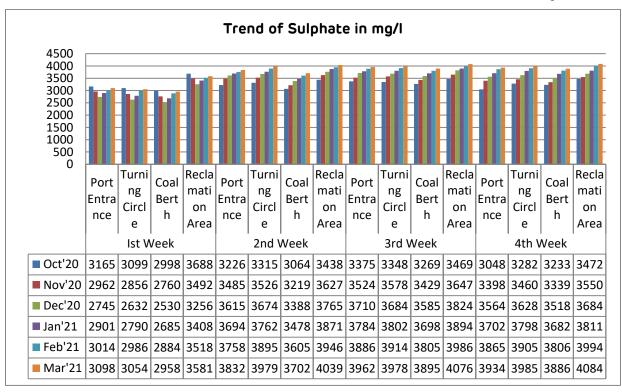
COD of Marine Water varied between 11.0 to 14.8 mg/l



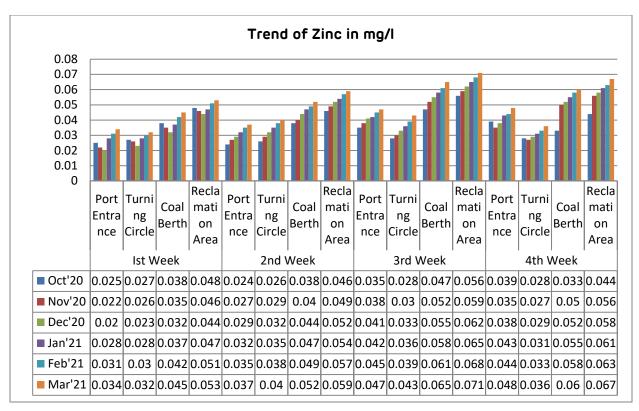
Potassium Concentration in Marine water varied between 266 to 394 mg/l



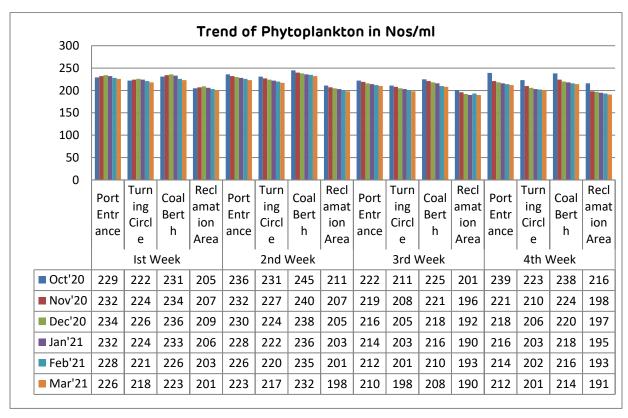
Chloride concentration in Marine water varied between 19786 to 21802 mg/l



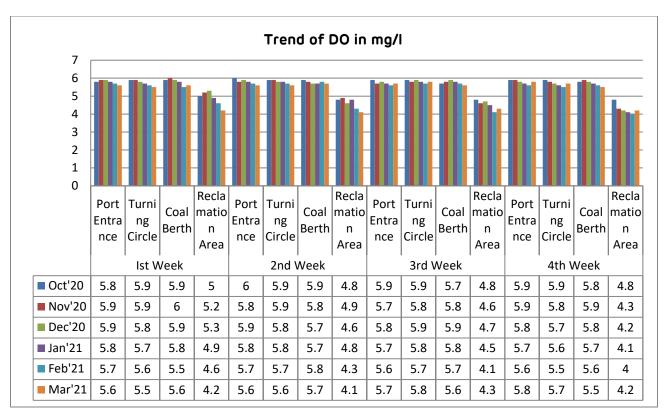
Sulphate concentration in Marine water varied between 2530 to 4084 mg/l



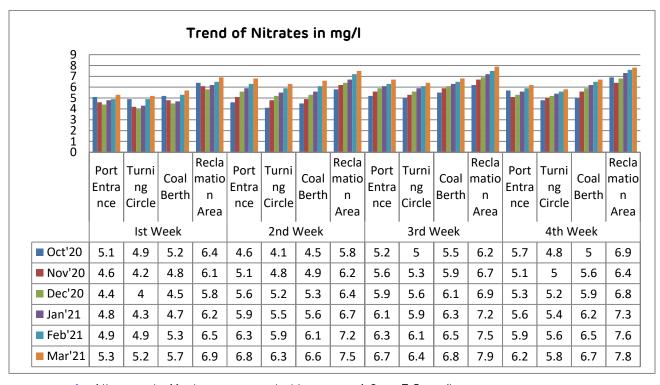
Zinc concentration in Marine water varied between 0.020 to 0.071 mg/l



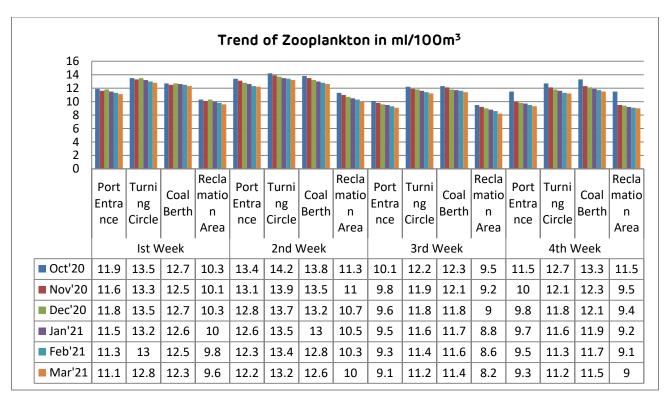
Phytoplankton in Marine water varied between 190 to 245 No./ml



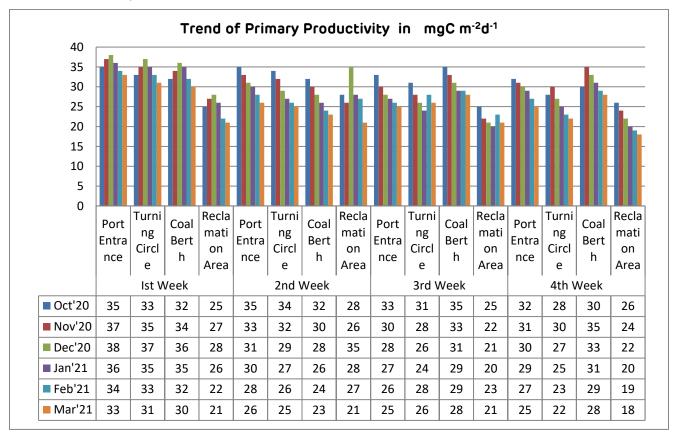
DO in Marine water varied between 4.0 to 6.0 mg/l



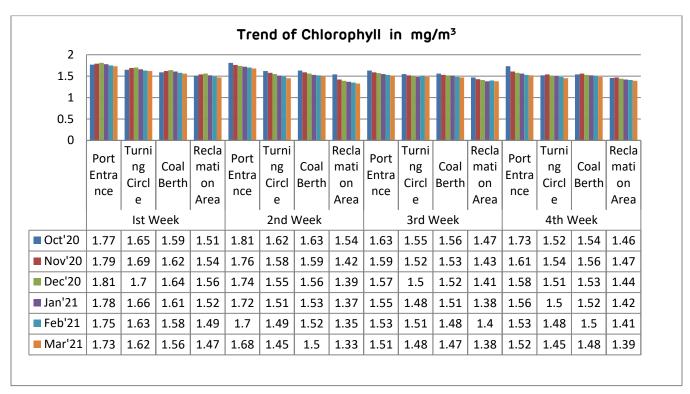
Nitrates in Marine water varied between 4.0 to 7.9 mg/l



Zoo plankton in Marine water varied between 8.2 to 14.2 ml/100m³



ightharpoonup Primary Productivity in Marine water varied between 18 to 38 mgC m⁻²d⁻¹



 \bullet Chlorophyll in Marine water varied between 1.33 to 1.81 mg/m³

Summary of Marine water quality results for six months of period Oct'20 - Mar'21

• pH - values are in the range 7.28 to 7.53

• BOD -values are in the range 3.0 to 4.1 mg/l

COD - values are in the range 11.0 to 14.8 mg/l

Potassium - values are in the range 266 to 394 mg/l

Chloride - values are in the range 19786 to 21802 mg/l

• Sulphates - values are in the range to 2530 to 4086 mg/l

• Zinc - values are in the range 0.020 to 0.071 mg/l

Phytoplankton - values are in the range 190 to 245 No./ml

• DO - values are in the range 4.0 to 6.0 mg/l

• Nitrates - values are in the range 4.0 to 7.9 mg/l

Zoo plankton - values are in the range 8.2 to 14.2 ml/100m³

Primary productivity - values are in the range 18 to 38.0 mgC m⁻²d⁻¹

Chlorophyll - values are in the range 1.33 to 1.81 mg/m³

3.4 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)	

3.4.1 Marine Deep Sea Turbidity

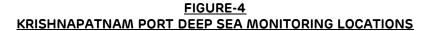
Marine water turbidity is carried out in the deep water i.e., at the dredged material disposal area on one day every month at three locations.

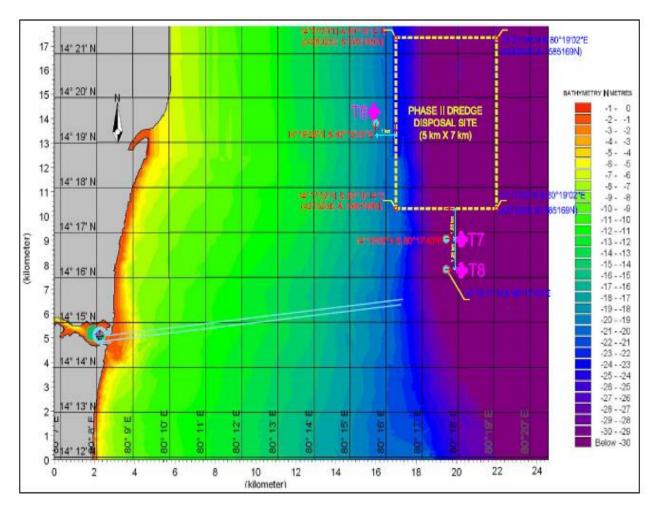
3.4.2 <u>Sampling Locations</u>

Turbidity levels are monitored during Low Tide, Medium Tide and High Tide. Monitoring locations listed below and **Figure-4**.

MARINE DEEP SEA TURBIDITY MONITORING LOCATIONS

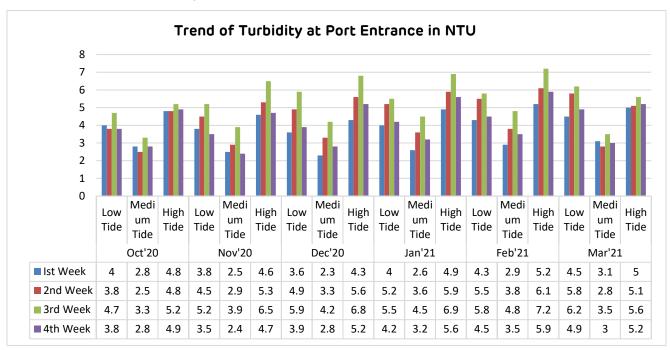
Location Code	Geographical Co-ordinates
DS1	14°19'26"N ; 80°15'43"E
DS2	14°16′52″N ; 80°17′40″E
DS3	14°16'11"N ; 80°17'40"E

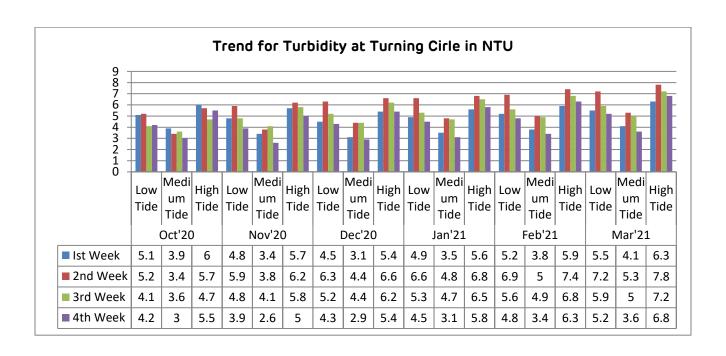


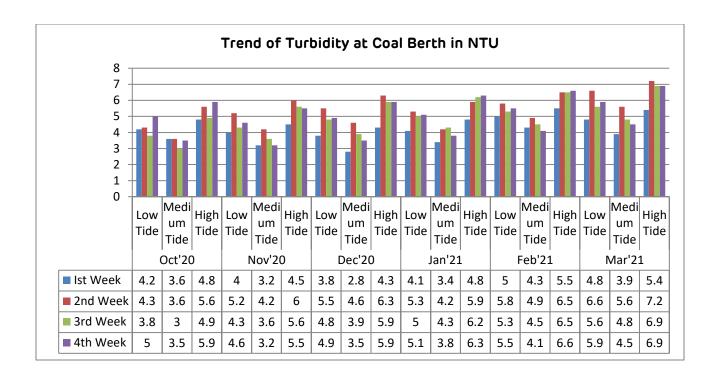


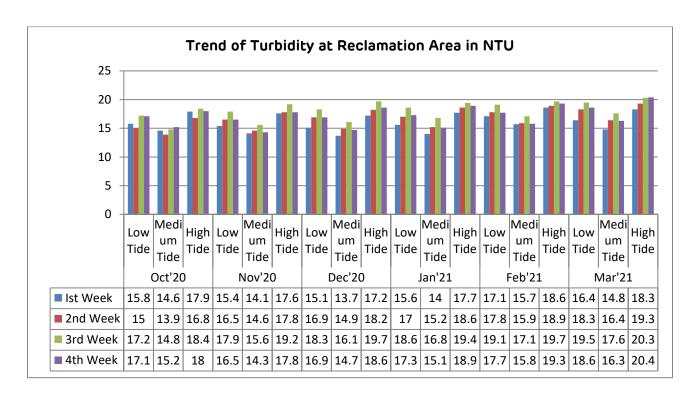
CODE	PARAMETERS	CO-ORDINATES OF MONITORING STATION
•	Turbidity Monitoring	
T6		14°19'26"N & 80°15'43"E
T7		14°16'52"N & 80°17'40"E
T8		14°16'11"N & 80°17'40"E

Status of Turbidity in Marine Water



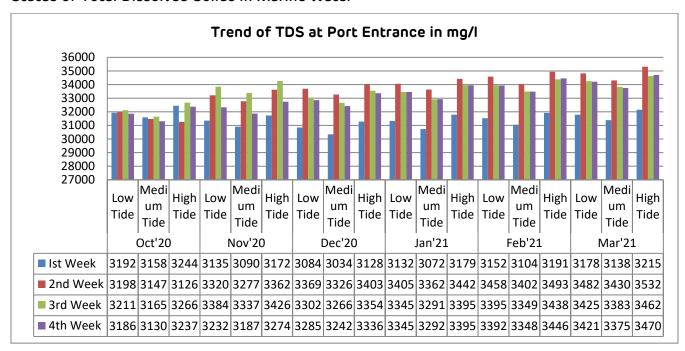


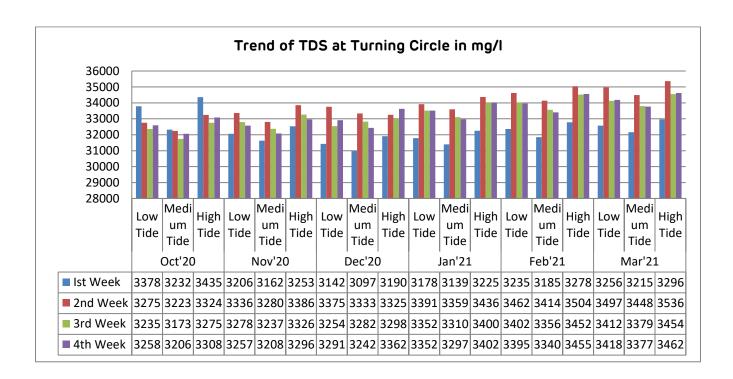


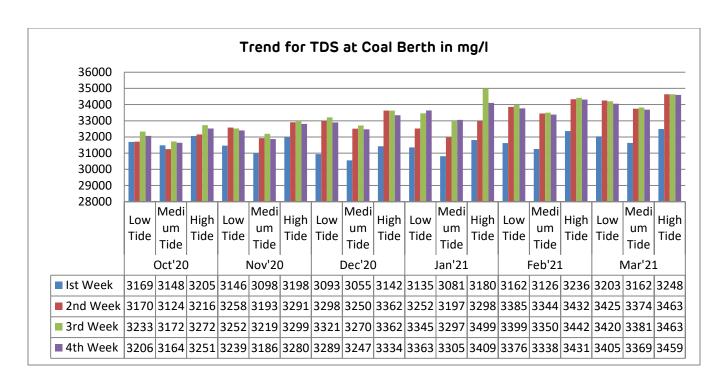


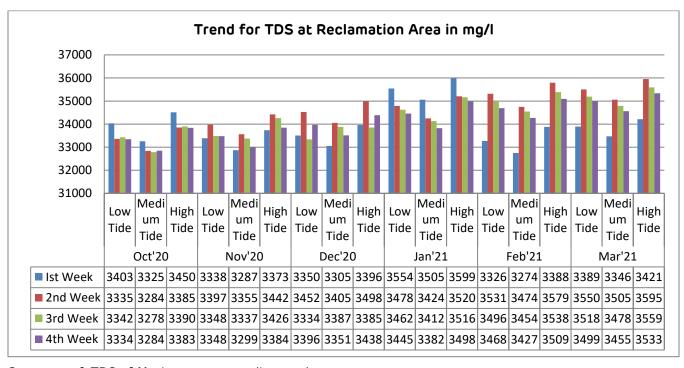
Summary of Turbidity: Coal berth varied between 2.8 to 7.2 NTU: Turning circle varied between 2.6 to 7.8 NTU and Approach channel varied between 2.3 to 7.8 NTU: Reclamation Area varied between 13.7 to 20.4 NTU.

Status of Total Dissolved Solids in Marine Water







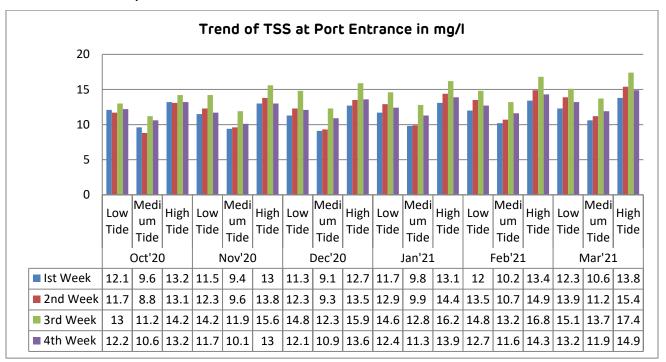


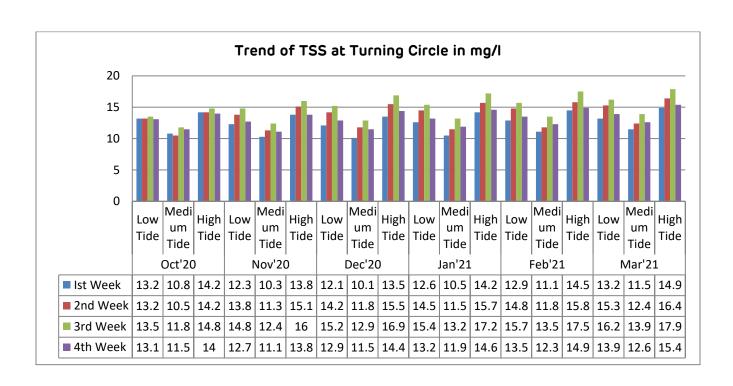
Summary of TDS of Marinne water quality results

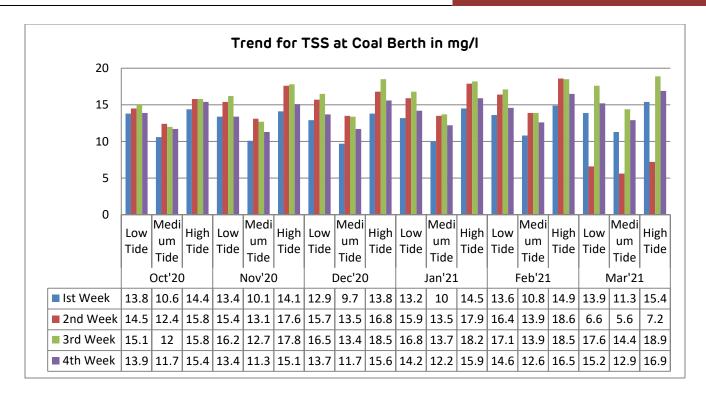
TDS - Values are in the range of 30340 to 35321 mg/l at Port Entrance (Approach Channel).

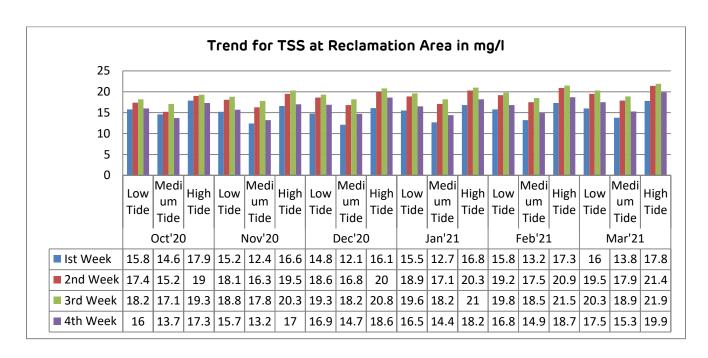
- Values are in the range of 30978 to 35369 mg/l at Turning Circle
- Values are in the range of 30552 to 34994 mg/l at Coal Berth
- Values are in range of 32749 to 35990 at Reclamation Area

Status of Total Suspended Solids in Marine Water

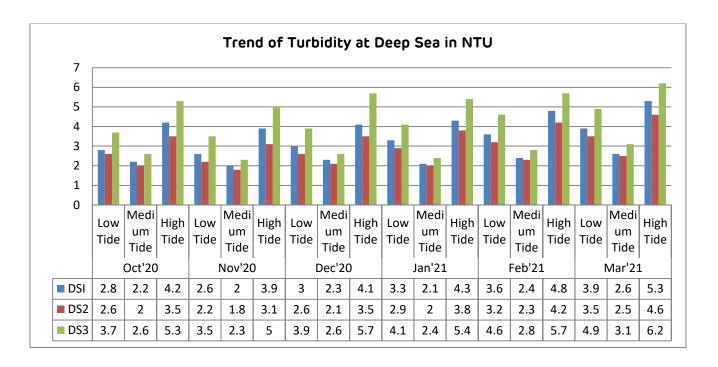


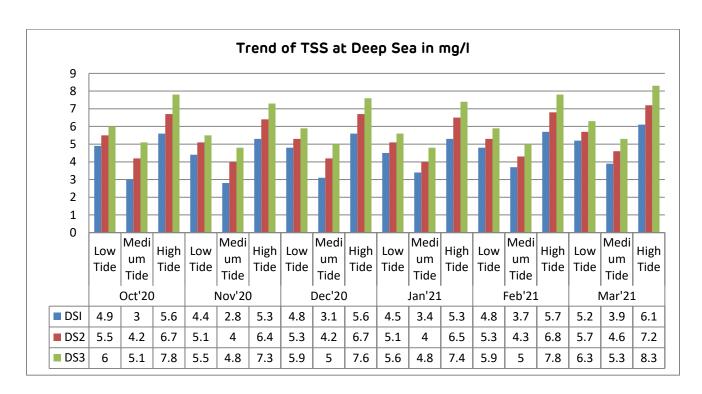


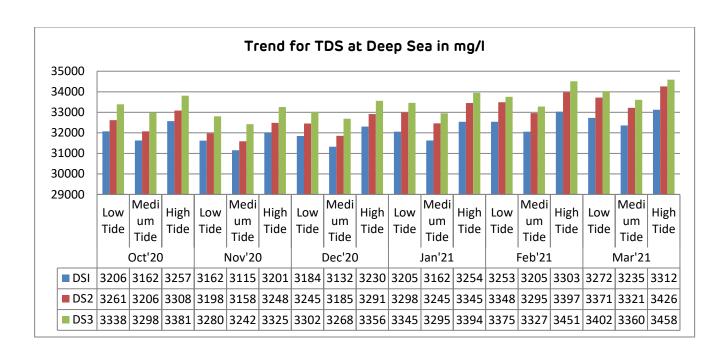




Status of Deep Sea Water Quality







3.5 Marine Sediment Quality

3.5.1 Sampling Locations

The Marine sediment sampling is carried out once in every week at four locations in the port listed below.

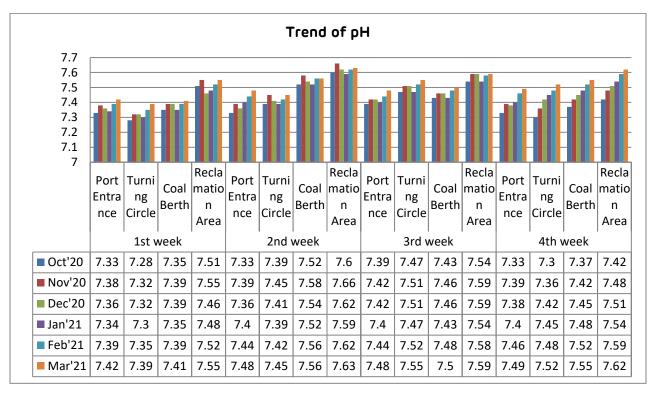
MARINE SEDIMENT MONITORING LOCATIONS

S. No	Location
1	Port Entrance
2	Turning Circle
3	Coal Berth
4	Reclamations Area

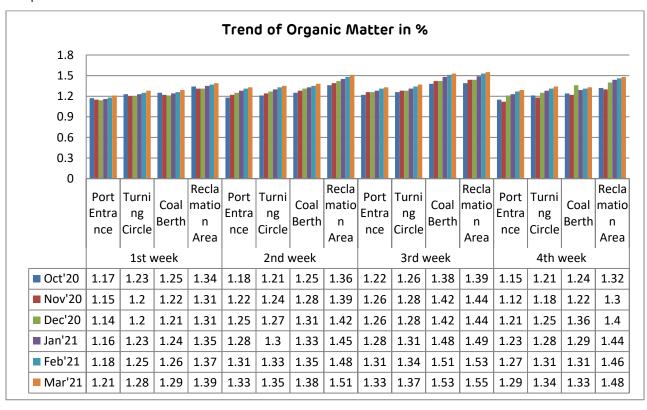
3.5.2 <u>Method of Sampling</u>

Marine sediment samples are collected using Van Veen Grab Sampler for analyzing Physical, Chemical and Biological parameters and presence of Heavy metals.

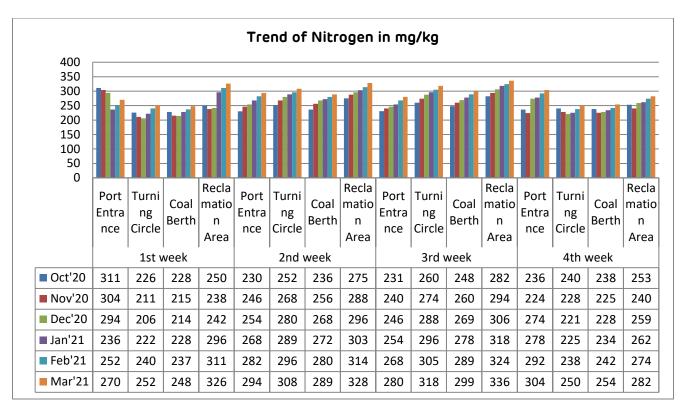
Status of Marine Sediments Quality



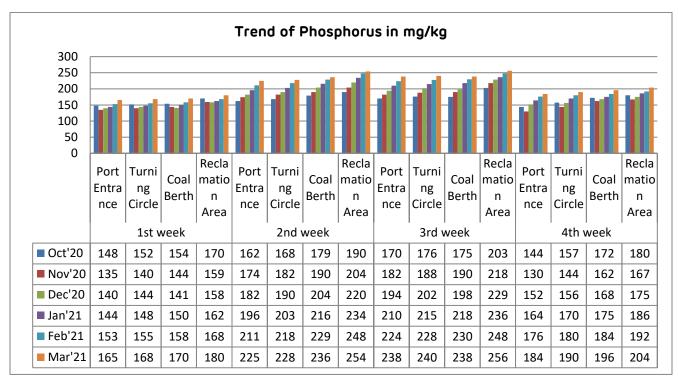
pH in Marine sediment varied between 7.28 to 7.66



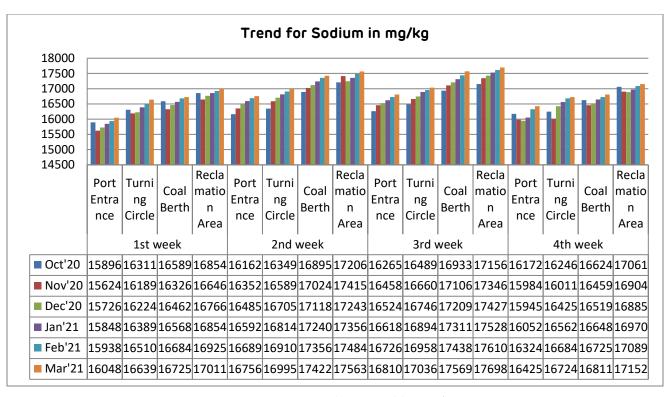
Organic Matter in Marine sediment varied between 1.12 to 1.55 %



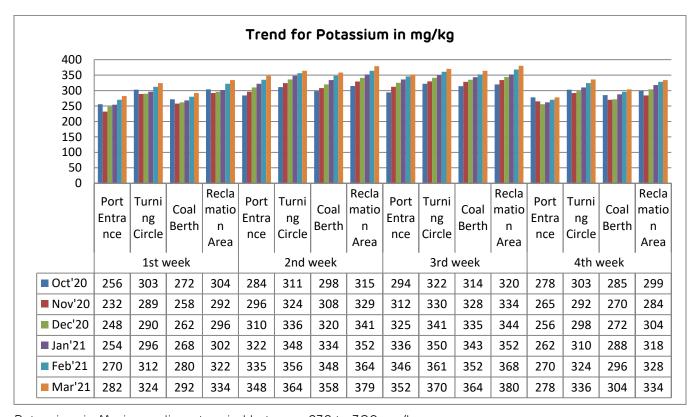
Nitrogen In Marine sediment varied between 206 to 336 mg/kg



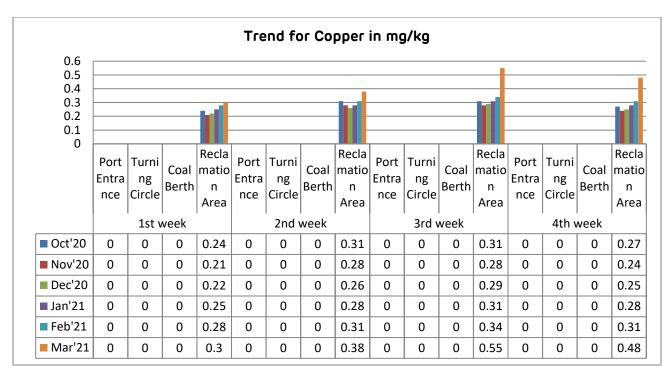
Phosphorous in Marine sediment varied between 130 to 256 mg/kg



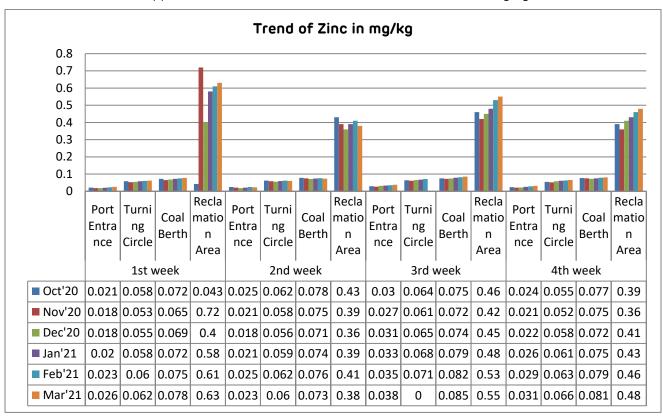
Sodium in Marine sediment varied between 15624 to 17698 mg/kg



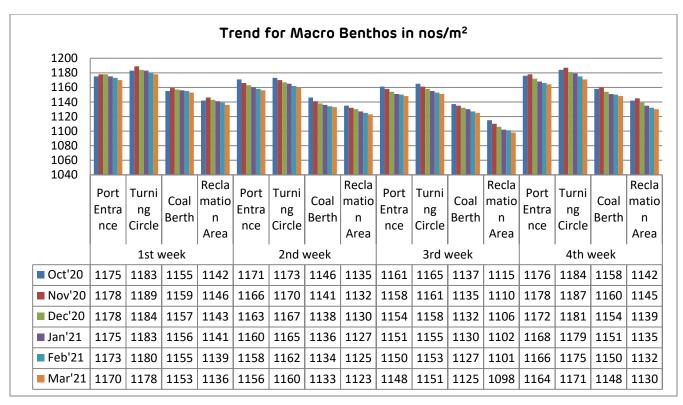
Potassium in Marine sediment varied between 232 to 380 mg/kg



Copper in Marine Sediment varied between 0.21 to 0.55 mg/kg



Zinc in Marine sediment varied between 0.018 to 0.72 mg/kg



Macro Benthos in Marine Sediment varied between 1098 to 1189 nos/m²

Summary of marine sediments quality results for Six months of Oct'20 - Mar'21

Organic matter - value are in the range 1.12 to 1.55 %

Nitrogen - value are in the range 206 to 336 mg/kg

Phosphorous - value are in the range 130 to 256 mg/kg

Sodium - value are in the range 15624 to 17698 mg/kg

Potassium - value are in the range 232 to 380 mg/kg

- value are in the range 0.21 to 0.55 mg/kg

- value are in the range 0.018 to 0.72 mg/kg

Macro Benthos - value are in the range 1098 to 11189 nos/m²

Copper

Zinc

3.6 GROUND WATER QUALITY

3.6.1 <u>Sampling Locations</u>

Ground Water sampling is carried out once in six months at four locations in and around the Port. The Ground water sampling locations are listed below.

GROUND WATER QUALITY MONITORING LOCATIONS

Location Code	Location
GW1	Port Site
GW2	South Side of the Port
GW3	Gopalapuram Village
GW4	Krishnapatnam Village

TEST REPORT OF GROUND WATER SAMPLES

DATE OF COLLECTION: 18-11-2020

S. No.	Parameter	Unit	Port Site (Bore Well)	Krishnapatna m Village	South Side of the Port	Gopalpuram Village	IS: 10500-2012 Specification
1.	рН		7.24	7.50	7.58	7.38	6.5 – 8.5
2	Electrical Conductivity	µmhos	1552	850	1254	879	-
3	TDS	mg/l	962	527	778	535	500
4	Total Alkalinity as CaCO₃	mg/l	252	212	348	192	200
5	Chlorides as Cl ⁻	mg/l	424	192	356	189	250
6	Sodium	mg/l	166	86.2	182	89.5	-
7	Potassium	mg/l	42	16	38	16	-
8	Fluorides as F ⁻	mg/l	0.64	0.49	0.76	0.46	1.0
9	Nitrates as NO-3	mg/l	6.72	6.18	4.88	4.98	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	134	78.2	112	91.5	200
12	Salinity	ppt	0.075	0.032	0.062	0.051	-
13	Sulphates as SO ⁻² ₄	mg/l	118	66.3	75.6	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	0.06	0.07	0.14	0.06	0.3
20	Lead as Pb	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	0.01
21	Zinc as Zn	mg/l	0.10	0.05	0.08	0.11	5.0
22	Chromium as Cr ⁶⁺	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	0.05
23	Total Coliforms	CFU/mI	Not Detected	Not Detected	Not Detected	Not Detected	Shall not be detected in 100ml
24	Fecal Coliforms	CFU/mI	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 23rd Edition, 2017.

3.7 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.

3.7.1 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
S 1	Storage area towards west Buckingham Canal
S2	Storage Area at Port

TEST REPORT OF SOIL SAMPLES

DATE OF COLLECTION : 18-11-2020

S. NO.	PARAMETER	UNIT	S1	S2	
1.	pH(1:5)		7.34	7.40	
2.	EC(1:5)	µmhos	668	705	
3.	Texture				
	a. Sand	%	75.0	73.8	
	b. Silt	%	12.8	13.9	
	c. Clay	%	12.2	12.3	
4	Available Nitrogen	kg/ha	224	240	
5	Available Phosphorus	kg/ha	11	12	
6	Available Potassium	kg/ha	486	502	
7	Exchangeable Sodium	mg/kg	184	198	
8	Exchangeable Calcium	mg/kg	119	152	
9	Exchangeable	mg/kg	32	40	
	Magnesium	0 0			
10	SAR (SAR)	-	1.2	1.5	
11	Water Soluble Chlorides	mg/kg	148	159	
12	Organic Carbon	%	0.38	0.45	
13	Lead	mg/kg	7.4	6.1	
14	Cadmium	mg/kg	0.14	0.11	
15	Copper	mg/kg	6.5	7.0	
16	Zinc	mg/kg	6.8	7.4	

3.8 STP INLET AND OUTLET ANALYSIS

Frequency: STP Inlet and Outlet samples are collected monthly once.

TEST REPORT OF STP INLET

S.No	Parameter	Unit	Oct'20	Nov'20	Dec'20	Jan'21	Feb'21	Mar'21
1	ρН	•	6.85	6.92	6.98	7.52	7.36	6.98
2	Total Solids	mg/l	2011	1888	1936	2142	2008	2114
3	Total Dissolved Solids	mg/l	1836	1720	1762	1950	1826	1906
4	Total Suspended Solids	mg/l	175	168	174	192	182	208
5	COD	mg/l	270	256	284	268	292	278
6	BOD 3day 27°C	mg/l	101	98.0	103	104	110	102
7	Oil & Grease	mg/l	5.1	4.8	5.0	4.8	5.1	4.7

TEST REPORT OF STP OUTLET

S.No	Parameter	Unit	Oct'20	Nov'20	Dec'20	Jan'21	Feb'21	March'21
1	рН	•	7.20	7.14	7.18	7.68	7.26	7.62
2	Total Solids	mg/l	1148	1060	1110	1288	1216	1256
3	Total Dissolved Solids	mg/l	1132	1048	1092	1262	1194	1218
4	Total Suspended Solids	mg/l	16	12.0	18.0	26.0	22.0	38.0
5	COD	mg/l	76.2	68.6	80.6	96.5	85.6	79.2
6	BOD 3day 27°C	mg/l	25.0	23.0	25.0	27.0	24.0	22.0
7	Oil & Grease	mg/l	<1.0	<1.0	<1.0	1.2	1.1	1.0

4.0 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.

S. No	DG Capacity (kVA)	Location	S. No	DG Capacity (kVA)	Location
1	380	Admin building	14	250	Dredger
2	250	SS-2	15	250	MCG
3	320	Admin Block	16	250	Garage
4	82.5	Sea Shell	17	250	CG-1
5	250	Dredger	18	500	CT Yard
6	250	South Port	19	250	CT Yard
7	125	CV Block	20	125	DSS1
8	250	R Block	21	160	Batching Plant
9	160	SSI	22	160	NPS
10	125	MUSS	23	100	KPCT Scanner
11	320	South Port	24	500	CT Yard
12	250	Batching Plant	25	125	DSS14
13	250	TTT			

EMISSION RATE

S.NO.	PARAMETER	UNIT METHOD		RESULT					
3.110.	PARAMETER	ONT	METHOD	1	2	3	4	5	
1.	Particulate Matter – PM	g/kw-hr	IS:11255-P-1	0.08	0.15	0.10	0.15	0.08	
2.	Oxides of Nitrogen – NOx	g/kw-hr	IS:11255-P-2	1.25	1.63	1.26	1.17	0.68	
3.	Carbon Monoxide – CO	g/kw-hr	IS:11255-P-7	0.55	0.71	0.58	0.51	0.32	
4.	Hydrocarbons - HC	g/kw-hr	IS:11255	0.18	0.13	0.11	0.16	0.07	

S.NO.	PARAMETER	UNIT	METHOD	RESULT					
3.110.	PARAMETER	Civii	METHOD	6	7	8	9	10	
1.	Particulate Matter – PM	g/kw-hr	IS:11255-P-1	0.12	0.14	0.10	0.11	0.11	
2.	Oxides of Nitrogen – NOx	g/kw-hr	IS:11255-P-2	1.06	1.16	1.28	1.30	1.17	
3.	Carbon Monoxide – CO	g/kw-hr	IS:11255-P-7	0.47	0.48	0.63	0.55	0.41	
4.	Hydrocarbons - HC	g/kw-hr	IS:11255	0.14	0.13	0.16	0.12	0.07	

S.NO.	PARAMETER	UNIT	METHOD	RESULT					
3.110.	PARAMETER	0.4.1	METHOD	11	12	13	14	15	
1.	Particulate Matter – PM	g/kw-hr	IS:11255-P-1	0.14	0.17	0.14	0.07	0.15	
2.	Oxides of Nitrogen – NOx	g/kw-hr	IS:11255-P-2	1.12	1.28	1.31	1.13	1.22	
3.	Carbon Monoxide – CO	g/kw-hr	IS:11255-P-7	0.51	0.49	0.54	0.45	0.49	
4.	Hydrocarbons - HC	g/kw-hr	IS:11255	0.05	0.15	0.10	0.11	0.18	

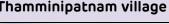
S.NO.	PARAMETER	UNIT	METHOD	RESULT					
3.110.	PARAMETER	ONT	METHOD	16	17	18	19	20	
1.	Particulate Matter – PM	g/kw-hr	IS:11255-P-1	0.11	0.13	0.15	0.12	0.10	
2.	Oxides of Nitrogen – NOx	g/kw-hr	IS:11255-P-2	1.55	1.15	1.46	1.30	1.18	
3.	Carbon Monoxide – CO	g/kw-hr	IS:11255-P-7	0.56	0.44	0.58	0.44	0.57	
4.	Hydrocarbons - HC	g/kw-hr	IS:11255	0.06	0.08	0.12	0.08	0.09	

S.NO.	PARAMETER	UNIT METHOD		RESULT				
3.110.	PARAMETER	ONIT	METHOD	21	22	23	24	25
1.	Particulate Matter – PM	g/kw-hr	IS:11255-P-1	0.13	0.13	0.14	0.15	0.12
2.	Oxides of Nitrogen – NOx	g/kw-hr	IS:11255-P-2	1.41	1.24	1.25	1.67	1.31
3.	Carbon Monoxide – CO	g/kw-hr	IS:11255-P-7	0.53	0.50	0.48	0.51	0.50
4.	Hydrocarbons - HC	g/kw-hr	IS:11255	0.11	0.10	0.13	0.12	0.05

ADANI KRISHNAPATNAM PORT LIMITED -	- HALF YEARLY REPORT	Oct'20 -	- Mar'21
			<u>PHOTOGRAPHS</u>
			PHOTOGRAPHS
SV ENVIRO LABS & CONSULTANTS,			

AMBIENT AIR QUALITY SAMPLING LOCATIONS

Thamminipatnam village





Gopalapuram village



Chalivendram



Krishnapatnam village



AMBIENT AIR QUALITY SAMPLING LOCATIONS

Zero Point New Light House Amenities Complex (CVR)

SV ENVIRO LABS & CONSULTANTS,

WATER SAMPLING



SEDMENT SAMPLING



PHYTOPLANKTON SAMPLING



NOISE MONITORING



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
<u>Land Environment</u>							
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 lowlying areas within Port Premises	After construction works complete	Main/ Sub- Contractor	During Soil Excavation Period	Physical Supervision
			<u>Air En</u>	<u>vironment</u>			
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 E</u>	<u>nvironment</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.
			Groundy	vater Quality		1	, , , , , , ,

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 E</u>	<u>nvironment</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. Half-Yearly- 2 locations adjacent to the reclaimed land	AKPL/Main Contractor	Construction Period	Soil quality in the surrounding land environment to be measured.
			<u>Waste 1</u>	<u> 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</u>	<u>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 Ecolo	<u>gical Environment</u>	<u> </u>		
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	Weekly monitoring- 4 locations-	AKPL	Construction Period	NABL accredited Lab shall be engaged for Monitoring Sea water quality

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
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		
	Air Environment								
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 within Port Premises	Ambient Noise Nuisance	Speed Limit of 30 KMPH shall be prescribed	Monthly- 7 locations	AKPL	Operation Period	Speed Governor on Vehicle shall 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	<u>er Management</u>				
6	Storm Water Run-off from Coal Stock Piles	Affect Seawater Quality	Catch Pit, Oil-Water 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	
	Green Belt Development							

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	Monthly- Random sampling by quadrat survey - 3 locations for every 10 Ha.	AKPL	Operation Period	Forests and Environment officers shall be consulted		
	Mangrove Management								
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.		
	Marine Ecological Monitoring								
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		
	Marine Water Environment								
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		

ANNEXURE - 3



भारत सरकार Government of India वाणिज्य और उदयोग मंत्रालय

Ministry of Commerce & Industry पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो) Petroleum & Explosives Safety Organisation (PESO) डोर नंबर 7-20-13, किरलामपुडी लेआउट विशाखापड्डनम- 530017 Door No. 7-20-13, Kirlampudi Layout, Visakhapatanam - 530017

E-mail: dyccevizag@explosives.gov.in

Phone/Fax No: 0891-2722257

संख्या /No.: P/SCIAP/14/5544 (P219323)

मेवा में /ा०

M/S KRISHNAPATNAM PORT COMPANY LTD,

P.O.Bag No.1, Muthukur Mandal, Nellore,

District: NELLORE, State: Andhra Pradesh PIN: 524344

दिनांक /Dated : 15/02/2019

- 5 MAR 2019

विषय /Sub : Plot No, S.No.440,442 & 444, NA, Krishnapatnam, Muthukur mandal, District: NELLORE, State: Andhra Pradesh, PIN: 999999 में स्थित

विद्यमान पेट्रोलियम वर्ग A,B Retail Outlet की अनुज्ञप्ति संख्या P/SC/AP/14/5544 (P219323) - नवीकरण के संदर्भ में ।

Existing Petroleum Class A,B Retail Outlet at Plot No, S.No.440,442 & 444, NA, Krishnapatnam, Muthukur mandal, District: NELLORE, State: Andhra Pradesh, PIN: 999999 - Licence No. P/SC/AP/14/5544 (P219323) - Reg Renewal of Licence.

महोट्य /Sir (s),

कपया आपके उपर्यक्त विषय से संबंधित पत्र संख्या X दिनांक 19/11/2018 का संदर्भ ग्रहण करें।

Please refer to your letter No. X dated 19/11/2018 on the subject.

अनुज़िन्त सं P/SC/AP/14/5544 (P219323) दिनांक 01/08/2011 दिनांक 31/12/2021 तक नवीनीकृत कर लौटाई जा रही हैं । Licence No. P/SC/AP/14/5544 (P219323) dated 01/08/2011 is returned herewith duly renewed upto 31/12/2021.

कृपया पेट्रोलियम नियम,2002 के अधीन बनाए गए नियम 148 में दी गई प्रक्रिया का कडाई से पालन करें । अनुज्ञप्ति के नवीकरण हेत् समस्त दस्तावेजों को दिनांक 31/12/2021 या उससे पहले इस कार्यालय में प्रस्तुत करें।

Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for the Renewal of the licence so as to reach this office on or before 31/12/2021.

कृपया पावती दें । Please acknowledge the receipt.

भवदीय /Yours faithfully,

Zinia ((अमील जवाहरलाल सोनबारसे) (Amo! Jawahariai Sonbarse))

Dy. Controller of Explosives कृते उप मुख्य विस्फोटक नियंत्रक For Dy. Chief Controller of Explosives विशाखापट्टनम/Visakhapatanam

(अधिक जानकारी जैसे आवेदन की स्थिति, श्ल्क तथा अन्य विवरण के लिए हमारी वेबसाइट : http://pesc.gov.in देखें) (For more information regarding status, fees and other details please visit our website: http://peso.gov.in)

प्ररूप XIV (प्रथम अनुसूची का अनुच्छेद 5 देखिए) FORM XIV (see Article 5 of the First Schedule)

मोटर वाहनों में ईंधन डालने के लिए पम्प आउटिफट के संबंध में टैंक या टैंकों में पेट्रोलियम अंडारकरण के लिए अनुनिप्त

अनुज्ञप्ति सं. (Licence No.) : P/SC/AP/14/5544(P219323)

फीस रूपए (Fee Rs.) 18000/- per year

पेट्रोलियम अधिनियम, 1934 के उपबंधों और उसके अधीन बनाए गए नियमों तथा इस अनुज्ञप्ति की अतिरिक्त शर्तों के अधीन रहते हुए 20.00 KL of Petroleum class A and 210.00 KL of Petroleum class B को टैंक/टैंको में भण्डारकरण मात्र के लिए M/S KRISHNAPATNAM PORT COMPANY LTD, P.O.Bag No.1, Muthukur Mandal,, Nellore, District: NELLORE, State: Andhra Pradesh, PIN: 524344 को नीचे वर्णित अनुज्ञप्त परिसरों में जो कि इससे उपबध्द नक्शा संख्यां P/SC/AP/14/5544(P219323) तारीख 01/08/2011 में दिखाया गया है, के लिए विधिमान्य अनुज्ञप्ति अनुदत्त की जाती हैं।

Licence is hereby granted to M/S KRISHNAPATNAM PORT COMPANY LTD, P.O.Bag No.1, Muthukur Mandal,, Nellore, District: NELLORE, State: Andhra Pradesh, PIN: 524344 valid only for the storage of 20.00 KL of Petroleum class A and 210.00 KL of Petroleum class B in tank/s in the licensed premises described below and shown on the plan no: P/SC/AP/14/5544(P219323) dated 01/08/2011 attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुज्ञप्ति 31st day of December 2021 तक विधिमान्य रहेगी । The Licence shall remain in force till the 31st day of December 2021

July 5, 2010

For Jt. Chief Controller of Explosives SC, Chennai

1). Amendment dated - 01/08/2011

अनुज्ञप्त परिसरों का विवरण और अवस्थान DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

अनुजप्त परिसर जिसकी सीमाएं संलग्न नक्शे में दिखाई गई हैं Plot No: S.No.440,442 & 444, NA, Krishnapatnam, Muthukur mandal, District: NELLORE, State: Andhra Pradesh, PIN: 999999 में स्थित हैं और उसमें निम्नलिखित सम्मिलित हैं:

The licensed premises, the boundaries of which are shown in the attached plan, are situated at Plot No: S.No.440,442 & 444, NA, Krishnapatnam, Muthukur mandal, District: NELLORE, State: Andhra Pradesh, PIN: 999999 and consist of:

- क पेट्रोलियम वर्ग क परिसर के लिए 20.00 किलोलिटर क्षमता के/क्रमश: 1 क्षमता के भूमिगत गैस टाईट टैंक, जो विद्युतचालित/हस्तचालित 2 डिस्पेन्सिंग पम्पो से जुडे हए हैं ।
- a 1 number(s) underground gas tight tanks of capacity 20.00 kilolitres respectively of petroleum Class A connected with 2 number(s) electrically/manually operated dispensing pump(s)
- ख पेट्रोलियम वर्ग ख/ग परिसर के लिए 70.00+ 70.00+ 70.00 किलोलिटर क्षमता के/क्रमशः 3 क्षमता के भूमिगत गैस टाईट टैंक, जो विद्युतचालित/हस्तचालित 5 डिस्पेन्सिंग पम्पो से जड़े हए हैं।
- b 3 number(s) underground gas tight tanks of capacity 70.00+ 70.00+ 70.00 kilolitres respectively of petroleum Class B connected with 5 number(s) electrically/manually operated dispensing pump(s).
- ग एक विक्रय कक्षा/कियोस्क
- c A sales room/kiosk
- घ सर्विस सम्बन्धी सुविधाएं जिनमें Kiosk, store, Elec. Room सम्मिलित हैं।
- d Servicing facilities consisting of Kiosk, store, Elec. Room As per attached plan

अनुज्ञप्ति संख्या-(Licence No.) P/SC/AP/14/5544 (P219323)

नवीनीकरण के पृष्ठांकन के लिए स्थान SPACE FOR ENDORSEMENT OF RENEWALS

नवीकरण की तारीख १९३४ के उपबन्धों या उनके समाप्ति की तारीख अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प पेट्रोलियम अधिनियम, Date of Signature and office stamp of the Date of अधीन बनाए गए नियमों या इस अनुज्ञप्ति की शर्तों Renewal Expiry of license licencing authority. का उल्लंघन न होने की दशा में यह अन्जण्ति फ़िस में बिना किसी छूट के दस वर्ष तक नवीकृत की जा सकेगी। This licence shall be renewable without any concession in fee for ten years in the absence of contravention of any provisions of the Petroleum Act, 1934 or of the rules framed thereunder or of any of the conditions of this licence. 11/02/2013 31/12/2015 1). Basudev Basak Controller of Explosives
For Dy. Chief Controller of Explosives Secunderabad Sd/-03/12/2015 31/12/2018 2) Abdul Muttalib Controller of Explosives For Dv. Chief Controller of Explosives Visakhapatanam Amol Jawaharlal Sonbarse 31/12/2021 15/02/2019 3) Dy. Controller of Explosives
For Dy. Chief Controller of Explosives ख्य मुख्य Visakhapatanam नियंत्रक, विशाखपट्टणम Dy. Chief Controller of Explosives, Visakhapatnam

यदि अनुजप्ति परिसर इसमें उपाबद्ध विवरण और शर्तों के अनुरुप नहीं पाए जाते हैं और जिन नियमों और शर्तों के अधीन यह अनुजप्ति मंजूर की गई हैं उनमें से किसी का उल्लंघन होने की दशा में यह अनुजप्ति रद्द की जा सकती है और अनुजप्तिधारी प्रथम अपराध के लिए साधारण कारावास से, जो एक मास तक हो सकता है, या जुर्माने से, जो एक हजार रुपये तक हो सकता है, या दोनों से, और प्रत्येक पश्चातवर्ती अपराध के लिए साधारण कारावास से जो तीन मास तक हो सकता है, या जुर्माने से, जो पांच हजार रुपये तक हो सकता है, या दोनों से, दण्डनीय होगा |

एक नास तक हो सकता है, या जुमान से, जा एक हजार रुपय तक हा सकता है, या दोनों से, उपाड़ परचातवता जपराय के लिए सायारण कारावास से जो तीन मास तक हो सकता है, या जुमान से, जो पांच हजार रुपये तक हो सकता है, या दोनों से, उण्डनीय होगा |

This licence is liable to be cancelled if the licensed premises are not found conforming to the description given on the approved plan attached hereto and contravention of any of the rules and conditions under which this licence is granted and the holder of this licence is also punishable for the first offence with simple imprisonment which may be extend to one month, or with fine which may extend to one thousand rupees, or with both and for every subsequent offence with simple imprisonment which may extend to three months, or with fine which may extend to five thousand rupees or with both.

M/s Krishnapatnam Port Company Ltd. Regarding Environmental and CRZ Clearance of Phase-III Expansion

PUBLIC NOTICE

This is to bring to the public notice that M/s Krishnapatnam Port Company Ltd. has been accorded Environmental Clearance (EC) for Development of Phase-III Expansion with supporting utilities and infrastructure facilities by the Ministry of Environment. Forest and Climate Change (MoEF&CC), Indira Paryavaran Bhavan, Jor Bagh Road, New Delhi 110003, vide File No.: 10-18/2016-IA.III, dated 11.01.2021. A copy of the above mentioned clearance letter along with the Environmental Conditions and safeguard is published here and is available with Andhra Pradesh Pollution Control Board. This may also be seen on the website of Ministry of Environment, Forest and Climate Change at https://www.moef.nic.in and on website of http://krishnapatnamport.com/in Environmental Information section.

File No.: 10-18/2016-IA.III

Proposal No.: IA/AP/MIS/566/2009

TIRUPATI

Government of India, Ministry of Environment, Forest and Climate Change (Impact Assessment Division), Indira Paryavaran Bhawan, Jor Bagh Road, Ali Ganj, New Delhi - 110 003.

Dated: 11th January 2021

To: The Director and Chief Executive Officer, M/s Krishnapatnam Port Company Ltd, 1st Floor, 48-9-17, Dwarakanagar, Visakhapatnam - 530 016, Andhra Pradesh.

Subject: Expansion of Krishnapatnam Port (Phase-III) at SPSR Nellore District, Andhra Pradesh by M/s Krishnapatnam Port Company Ltd - Environmental and CRZ Clearance.

Sir

This has reference to your online proposal to this Ministry on 05th June 2020 regarding Environmental and CRZ Clearance for Expansion of Krishnapatnam Port (Phase-III) at SPSR Nellore District, Andhra Pradesh by Mis Krishnapatnam Port Company Ltd.

- 2. Krishnapatnam Port located at 14°15'10" N Latitude and 80°08' 05" E Longitude in Sri Potti Sri Ramulu (SPSR) Nellore District, AP is developed by Krishnapatnam Port Company Ltd (KPCL) as an all-weather, deep water, multi-purpose port. The Phase I & II developments of Krishnapatnam Port comprising of 12 berths out of 17 approved berths with required marine infrastructure were developed in a designated land area of Ha.1240 (Ac. 3064) to cater to 68 MTPA of various types of cargo plus 2.0 MTEUsPA of container traffic. To cater to future traffic needs, KPCL has proposed to take up Phase III expansion of the port.
- 3. The proposed phase-III project comprising of 16 Berths including 3 jetties for liquid cargo and 3 SBM's in deep waters within Port Limits to cater 150.2 MTPA of various types of cargo plus 1.1 MTEUsPA of container cargo. The proposed expansion entail 60 million cu m of dredging in soft soil, utilize 26 million cum of dredged sand for reclamation of low lying areas of port, stock pile 2 million cum on the coast north of north breakwater for long term coastal protection as recommended by NIOT and disposal of balance 32 million cum of dredged spoil in the identified dredge disposal area of 56 Km2 beyond (-) 20 m contour. In view of the severe floods that have occurred in the Nellore region during 2015, in order to improve the discharge through Kandaleru Creek the GoAP also suggested cutting through the Islands in the Creek. The Masterplan development as well as the proposed Phase-III expansion of Krishnapatnam Port envisaged training the meanders of the Kandaleru Creek by forming a straight cut across the sand bar existing in the Kandaleru Creek within the port limits and develop the west dock with berths on both sides of the straight cut and reclaim the erstwhile meanders of the creek.
- 4. The proposed proposal fall under 7(e), Category A as per EIA notification 2006. The overall cost of the project is Rs. 907000 Lakhs. The Term of Reference (ToR) was issued vide letter No. 10-18/2016-IA.III dated 4th May 2016. Amendment in TOR was done vide Letter No. of even number dated 24th November 2017. Further amendment in TOR was done vide Letter No. of even number dated 27th August 2018. Public hearing was exempted as per the ToR amendment vide Letter No.10-18/2016-IA-III dated 24th November 2017. However, it was recommended that the Project Proponent shall address the compliance of there commendations made in the Public Hearing 2009 and submit the same as separate document attached to EIA report.
- 5. As per the commitments made during the public hearing 100 m green belt has been developed along the boundary of the port. Further as desired by APPCB, 191.5 Ha of green belt has been developed. Dedicated 4 lane port road connectivity has been developed to NH-16 by GoAP. Further, as requested by local public, Krishnapatnam Port is undertaking environmental protection measures to combat air pollution. Total no of village population working directly and indirectly in the port and port based industries are 10,500. Further KPCL has adopted 33 surrounding villages and is carrying out necessary developmental activities.
- 6. Total area of the proposed project is 1094 Ha (Ac.2703). The project does not involve any land acquisition and R&R as the proposed project activities will be developed within the exiting designated Krishnapatnam port facility. There is no diversion of forest land. The patches of mangroves around 7.128 Ha of area is falling in proposed Phase-III development area will be protected. There is no Eco-Sensitive Zone (ESZ) / Protected Areas such as National Parks, Sanctuaries and Tiger Reserves etc., within the 10 km radius of the project area.
- 7. The proposed project site is located in the coastal area and attracts CRZ Notification, 2011. The CRZ Area details of the proposed project activities as per the revised layout of the Phase-III expansion of KPCL has been provided by Institute of Remote Sensing, Anna University, which is an authorized agency for CRZ map preparation. The layout superimposed on CRZ map was done at 1:4000 scales. The proposed project was appraised by the Andhra Pradesh Coastal Zone Management Authority (APCZMA) and the recommendation was obtained vide Letter No. 202/CRZ/IND/201930 dated 21.05.2020.
- 8. The project site is located on the east coast alongside Bay of Bengal. The Kandaleru Creek and Upputeru creeks, Buckingham canal passes through the project site. The other surface water bodies in the study area include irrigation drains from agricultural fields, Sarvepalli reservoir and Govindapalli reservoir. The ephemeral drains inside the project site will not be disturbed and culverts CED 1 and CED 2 are proposed to be provided for the road and rail bridges over the drains without affecting their flow. The mangroves inside the Phase III developmental area will be conserved and pipelines from the nearby drain are provided for tidal exchange. The Kandaleru Creek will be straightened to develop the west dock. NIOT has studied the impacts of creek rerouting and it was found that there is only slight change in the water level and no impact on flushing and tidal exchange due to the proposed development.
- The existing port facility has a water supply of 5 MLD which includes 1 MLD of water from Muthukur Reservoir provided by Government of Andhra Pradesh and 4 MLD of water from Nakkalakalava irrigation drain provided by Irrigation Department of Andhra Pradesh. The present Port facility (Phase-I and Phase-II developments) utilizes 2.5 MLD of water and the water requirement for the proposed Phase-III development is estimated to be 2.5 MLD. No groundwater will be extracted/utilized for the proposed project.
- 10. The port is proposed to install a Sewage Treatment Plant (STP) of capacity 700 KLD to treat the sewage and an Effluent Treatment Plant (ETP) of 300 KLD capacities to treat the wastewater from the Port. The treated wastewater will be utilized for greenbelt and dust suppression systems. Greenbelt is proposed in an area of 120 Ha along the Port boundary and around the coal storage areas with native species.
- 11. Benefits of the project: The proposed development would generate large scale direct and indirect employment for the local people in both the skilled and unskilled worker class. Further there would be an improvement to the local infrastructures in the vicinity of the port through CSR. About 6200 people will get employment during construction and operation phase. The proposed development will help in handling the increased cargo demand due to industrialization. This will contribute towards the growth in economy of the region and the nation. The increased revenue due to proposed development would contribute to the exchequer i.e., Central Government departments like Customs & Excise, Railways, Commercial Taxes and Income Tax. This will eventually contribute towards the State Government of Andhra- Pradesh by way of share of revenue and lease rentals.
- 12. The project proponent along with the EIA consultant M/s Cholamandalam MS Risk Services Limited, Chennai made a presentation through Video Conferencing during 249th EAC meeting held on 14th December 2020. The EAC based on the information submitted and

- (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.
- (vii) 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.
- (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.
- (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.
- (x) No diversion of the natural course of the river shall be made without prior permission from the Ministry of Water resources.
- (xi) 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.

IV. Noise monitoring and prevention:

- (i) Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- (ii) Noise from vehicles, power machinery and equipment on-site should not exceed the prescribed limit. Equipment should be regularly serviced. Attention should also be given to muffler maintenance and enclosure of noisy equipment.
- (iii) Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.
- (iv) The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

V. Energy Conservation measures:

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

VI. Waste management:

- Dredged material shall be disposed safely in the designated areas.
- 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.
- (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.
- (iv) The solid wastes shall be managed and disposed as per the norms of the Solid Waste Management Rules, 2016.
- 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.
- (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.
- (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.
- (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 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.

VII. Green Be

- (i) Green belt shall be developed in area as provided in project details with a native tree species in accordance with CPCB guidelines.
- (ii) Top soil shall be separately stored and used in the development of green belt.

VIII. 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.
- (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.
- (iii) A detailed marine biodiversity management plan shall be prepared through the NIO or any other institute of repute on marine, brackish water and fresh water 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, 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.
- (iv) Marine ecology shall be monitored regularly also in terms of sea weeds, sea grasses, mudflats, sand dunes, fisheries, echinoderms, shrimps,

- 13. The Ministry of Environment, Forest and Climate Change has considered the proposal based on the recommendations of the Expert Appraisal Committee (Infrastructure, CRZ and other Miscellaneous projects) and hereby decided to grant Environmental and CRZ Clearance for the "Expansion of Krishnapatnam Port (Phase-III) at SPSR Nellore District, Andhra Pradesh by M/s Krishnapatnam Port Company Ltd." under the EIA Notification, 2006 as amended and CRZ Notification 2011, subject to strict compliance of the following specific conditions, in addition to all standard conditions applicable for such projects.
- (i) The Environmental and CRZ Clearance to the project is primarily under provisions of EIA Notification, 2006 and CRZ Notification, 2011. It does not tantamount to approvals / consent / permissions etc required to be obtained under any other Act / Rule / regulation. The Project Proponent is under obligation to obtain approvals / clearances under any other Acts / Regulations or Statutes as applicable to the project.
- (ii) 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.
- (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.
- (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.
- (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.
- (vi) Development of green belt by native species with consultation with state forest department shall be ensured.
- (vii) The proposed expansion entails 60 million cum of dredging in soft soil. As proposed, the PP shall utilize 26 million cum of dredged sand for reclamation of low lying areas of port, stock pile 2 million cum on the coast north of north breakwater for long term coastal protection as recommended by NIOT and disposal of balance 32 million cum 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.
- (viii)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.
- (ix) 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 MoEF8CC.
- (x) 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.
- (xi) 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.
- (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. MoFF&CC along with half yearly compliance report.
- (xiii) The company shall draw up and implement Corporate Social Responsibility Plan as per the Company's Act of 2013.
- (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.

B. STANDARD CONDITIONS:

I. 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 work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.
- (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.
- (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 proponents from the respective competent authorities.

II. Air quality monitoring and preservation:

- (i) The project proponent shall install system to carryout Ambient Air Quality monitoring for common / criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM₂₅ 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.
- (ii) Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed emission standards.
- (iii) 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.
- (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.
- (v) The Vessels shall comply the emission norms prescribed from time to time.
- (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
- (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 implementation of components of the plan which involve the participation of these departments.

III. Water quality monitoring and preservation:

- 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.
- (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.
- (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.
- (iv) Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handle.
- (v) The project proponents will draw up and implement a plan for the management of temperature differences between intake waters and discharge waters.

(v) The project proponent shall ensure that water traffic does not impact the aquatic wildlife sanctuaries that fall along the stretch of the river.

IX. Public hearing and human health issues:

- 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.
- (ii) Workers shall be strictly enforced to wear personal protective equipments like dust mask, ear muffs or ear plugs, whenever and wherever necessary/required. Special visco-elastic gloves will be used by labour exposed to hazards from vibration.
- (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 implemented and monitored by the concerned officials to prevent the occurrence of untoward incidents/accidents.
- (iv) Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- (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.
- (vi) Occupational health surveillance of the workers shall be done on a regular basis.

Environment 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 report shall be submitted to the MoFF&CC as a part of six-monthly report
- (ii) A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
- (iii) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry / Regional Office along with the Six Monthly Compliance Report.
- (iv) Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

I. 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.
- i) 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.
- (iii) The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- (iv) The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- (v) The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company
- (vi) The criteria pollutant levels namely; PM₂₅, 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.
- (vii) The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- (viii) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- (ix) The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee
- (x) No further expansion or modifications in the port area shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF8CC).
- (xi) Concealing factual data or submission of false / fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- (xii) The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- (xiii) The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- (xiv) The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/monitoring reports.
- (xv) The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- (xvi) Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- 19. This issues with the approval of the Competent Authority.

(Amardeep Raju) Scientist-E

Copy to:

- The Principal Secretary, Department of Forests & Environment and Chairman, APCZMA, Govt. of Andhra Pradesh, A.P. Secretariat, Velagapudi, Amaravathi, A.P.
- The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi 32.
 The Member Secretary, AP Pollution Control Board, Chalamalavari Street, Kasturibaipet, Vijayawada 520 010.
- 4. The APCCF (C), Tulja Guda Complex, building, M. J. Market, Hyderabad, (Andhra Pradesh) 500001.
- The APCCF (C), Tulja Guda Complex, building, M.J. Market, Hyderaba
 Monitoring Cell, MoEF&CC, Indira Parvayaran Bhayan, New Delhi.
- Guard File / Record File.
- 7. Notice Board.

(Amardeep Raju) Scientist-E

"This is a copy of Environment Clearance issued in English and the original copy of the same is available on MoEF&CC website. This is in line with directive issued therein and is for information purposes only. In case of a discrepancy, the original Environment Clearance in English will prevail and KPCL shall not be liable for any ambiguity arises"

M/s కృష్ణపట్నం పోర్ట్ కంపెనీ లిమిటెడ్

3వ దశ విస్తరణకు పర్వావరణ మలియు సీఆర్జ్ అనుమతి గులించి

బహిరంగ (పకటన

ఫైల్ నంబరు: 10-18/2016-IA.III

(ක්ෂිකිංසින් න්රහජා: IA/AP/MIS/566/2009

భారత ప్రభుత్వం పర్యావరణ, అటటీ మరియు వాణావరణ మార్పు మం@తక్క శాఖ (ప్రభావ అంచనా విభాగం) ఇందిరా పర్యావరణ్ భవన్, జోర్ బాగ్ రోడ్, అలీ గంజ్, న్యూ ఢిల్లీ-110003

టు, ద డైలెక్టర్ అండ్ చీఫ్ ఎగ్జిక్కూటివ్ ఆఫీసర్ M/s కృష్ణపట్నం పోర్ట్ కంపెనీ లిమిటెడ్, 1వ అంతస్తు, 48-9-17, ద్వారకానగర్, విశాఖపట్నం-530 016, ఆంధ్రప్రదేశ్.

බ්షియం: M/s ඡු,ష్ణిపెట్నం పోశ్ద్ కంపెనీ లెమెటెడ్ ఎస్ప్ఎస్ఆర్ నెల్లూరు జిల్లా, అంధ్రప్రదేశ్లో కృష్ణపట్నం పోశ్ద్ (3వ దశ) విస్తరణ– పర్యావరణ మలయు సీఆర్జడ్ అనుమతి. సాగ్

Ms కృష్ణపట్నం పోర్ట్ కంపెనీ లిమిటెడ్చే ఎస్పిఎస్ఆర్ నెల్లూరు జిల్లా, ఆంధ్రప్రదేశ్లో కృష్ణపట్నం పోర్ట్ (3వ దశ) విస్తరణ కొరకు పర్యావరణ మలియు సిఆర్జడ్ క్లియరెన్స్ గులించి 05 జూన్ 2020న ఈ మంత్రిత్య శాఖకు మీరు అన్లైన్లో చేసిన ప్రతిపాదనకు సంబంధించి బీవిని ఇన్నున్నాము.

- 2. జ్రీ పాట్టి శ్రీరాములు (ఎస్పీఎస్ఆర్) నెల్లూరు జిల్లా, ఎపిలో 14°16'10' N అజ్ఞాంశం మలయు 80°08' 05' E రేఖాంశం వద్ద ఉన్న కృష్ణపట్నం పోర్టును Ms కృష్ణపట్నం పార్ద్ కంపెగీ లెమిటెడ్ అగ్ని వాతావరణాలను తట్టుకోగల, డీప్ వాటర్, బహుళ ఉపయోగకర పోర్పగా అభివృద్ధి చేస్తోంది. కృష్ణపట్నం పోర్టు యొక్క దశ 1 మలయు 2 అభివృద్ధిలో ఆమోచించిన 17 బెర్తుల్లో 12 బెర్తులకు కావలసిన సముద్ర మౌలిక సదుపాయాలతో 68 ఎంటిపిఎల వివిధ రకాల కార్గ్ ప్లస్ 2.0 ఎంటియు/ఎ కంటెయినర్ టాఫీక్ అహారించిన 17 బెర్తుల్లో 12 బెర్తులకు కావలసిన సముద్ర మౌలిక సదుపాయాలతో 68 ఎంటిపిఎల వివిధ రకాల కార్గ్ ప్లస్ 2.0 ఎంటియు/ఎ కంటెయినర్ టాఫీక్ అహారించిన భూమిలో అభివృద్ధి చేయబడింది. భవిష్కత్తులో ఉండే ట్రూఫీక్ అవసరాలను తీర్వేందుకు, పార్ను యొక్క 3వ దశ విస్తరణను చేపట్లులని కెపిసీఎల్ ప్రతిపాదించింది.
- 3. ట్రతిపాదిత దళ 3లో 150.2 ఎంటిపిఎల నివిధ రకాల కార్గో మరియు 1.1 ఎంటియు/ఎ కంటెయిగర్ కార్గో అవగరాలను తీర్చేందుకు పోర్ను పలముతుల లోపల డీప్ బాటర్టోలో 3 ఎస్టెటిఎంలు మరియు లిక్కిడ్ కార్గో కొరకు 3 జెట్టీలతో సహా 16 బెర్త్లలు ఉన్నాయి. ట్రతిపాదిత విస్తరణకు మెత్తని నేలలో 60 మిరియన్ క్యూటిక్ మీటర్ల డెడ్డింగ్కి, పోర్వల్లోని, పోర్వలలు మరియు 19డ్డేందుకు 26 మిరియన్ల క్యూటిక్ మీటర్ల డెడ్డింగ్ చేసిన ఇసుకను ఉపయోగించుకోవడానికి, ఎన్ఐఒటి సీఫారసు చేసినట్లుగా దీర్ఘకాలం తీర స్థాంకాన్ని రక్షించేందుకు ఉత్తర ట్రోకిపాటర్లికి ఉత్తర తీరంలో 2 మిరియన్ క్యూటిక్ మీటర్లను స్మాక్ చేయడానికి మరియు (-) 20 మీ కంటోరకి మించి 56 చదరపు శీలోమీటర్లు గుల్తించిన డ్రెడ్డ్ డిస్వేజల్ పేలయాలో మిగతా 32 మిరియన్ క్యూటిక్ మీటర్ల డెడ్డింగ్ చేసిన మట్టిని విసల్జించడానికి హక్కు ఉంది. 2015 సంవత్తరంలో నెల్లురు స్థాంతంలో తీస్ర వరదలు సంభవించిన దృష్ట్యె, కండలేరు జ్రీక్ గుండా నీటి డిశ్వాష్ట్రని పెంపాంచిందుకు, జ్రీక్ తోని దీవులను కట్టింగ్ చేయాలని కూడా అంగ్రభుచేశ్ స్థూటిక్నం స్థలుకు చేయడం ద్వారా మరియు స్టైయిట్ కటికి రెండు పైపులా బెర్డేలో పక్షిమ డాక్స్ అభివృద్ధి చేయడం ద్వారా జ్రీక్ యొక్క అలనాటి మలుపులను తిలిగిపొందడం ద్వారా కండలేరు జ్రీక్ యొక్క మలుపులను పర్వాటు చేయాలని మాస్టర్లిక్సాన్ డెవలస్వేమ్ మలుపులను ప్రత్తికు కృష్ణపట్టం పోర్వు దాకని బల్లు ప్రవిమ చారను స్థాటు చేయులని మాస్టర్లు ప్రవిమ చేయకింది.
- 4. థ్రతిపాదిత థ్రతిపాదన EIA నోటిఫికేషన్ 2006 థ్రూరా 7 (e), కేటగీల A కిందకు వస్తుంది. థ్రాజెక్టు మొక్తం వ్యయం రూ. 907000 లక్షలు. టర్మ్ ఆఫ్ లథరెన్స్ (టిఒఆర్) లేఖ నం. 10-18/2016-IA.III తేబీ 4 మే 2016న జాలీ చేయబడింది. తేబీ 24 నవంబరు 2017న టిఒఆర్ కి సవరణ చేయబడింది. ఆ తరువాత 27 ఆగస్టు 2018వ తేబీన టిఒఆర్ తో మరొక సవరణ చేయబడింది. లేఖ నం. 10-18/2016-IA-III తేబీ 24 నవంబరు 2017 ద్వారా టిఒఆర్ సవరణ ప్రకారం థ్రజాభిప్రాయ నేకరణ నుంచి మినహాయించుకమైనది. అయికే, థ్రజాభిప్రాయ నేకరణ 2009లో చేసిన సిఫారసులను అమలు చేయాలని మలియు బీటీని వేరే డాక్కుమెంటుగా ఇబెఎ లిపోర్మకు జతచేసి సమర్వించాలని సిఫారసు చేయడమైనది.
- 6. ట్రణాభిస్తాయ సేకరణలో ఇచ్చన వాగ్దానం మేరకు పోర్ను సలహద్దు వెంబడి 100 మీటర్ల గ్రీన్ బెల్ట్గర్ అభివృద్ధి చేయడమైనది. ఆ కరువాత ఎపిపిసిటి కోలక మేరకు, 191.5 హెక్టార్ ల గ్రీన్ బెల్ట్గర్ అభివృద్ధి చేయడమైనది. ఆంధ్రప్రదేశ్ ట్రభుత్వం పోర్ను నుంచి 4 వరుసల రోడ్ ను అభివృద్ధి చేసి నేషనల్ హైవే 168 అనుసంధానం చేసింది. స్థానిక ట్రజల కోలక మేరకు, నాయు కాలుష్కాన్ని నిరోధించేందుకు కృష్ణపట్నం పోర్ను పర్వావరణ పలిరక్షణ చర్యలు చేపట్టింది. పోర్ను మలయు పోర్ను అధాలక పల్చనమల్లో పనిచేస్తున్న జనాఖా మొత్తం సంఖ్య 10,500. ఇంకా, కెపిసిఎల్ 33 పలిసర గ్రామాలను దత్తతకు తీసుకుని అవసరమైన అభివృద్ధి కార్యకలాపాలు చేసేక్తింది.
- 6. @తిపాటిళ డ్రాజెక్టు యొక్క మొత్తం విస్తీర్ణం 1094 హెక్టార్లు (2703 ఎకరాలు), ఈ డ్రాజెక్టులో భూ సేకరణలు మరియు జరోఅండిఆర్ లేదు. ఎందుకంటే 6ుకిపాటిళ డ్రాజెక్టు పనులు కృష్ణపట్నం పోర్యకు లేటాయించిన డ్రాంతంలో ఉన్న దారావుగా 7.128 హెక్టార్లలోని మ్యాన్స్ గోన్స్ ప్యాచ్లను రక్షించడం జరుగుతుంది. జాతీయ పార్కులు, అభయారణ్యాలు మరియు పులుల సంరక్షణ కేంద్రాలు తదితర లాంటి పర్యావరణ సుద్వితమైన జోన్/రక్షిత డ్రాంతాలు ఈ డ్రాజెక్టుకు 10 కిలోమీటర్ల రేడియన్లో లేవు.
- 7. ఈ స్థరిపాబిత స్టాజెక్సు సైట్ తీర స్థాంతంలో ఉంది మలియు సీఆర్జడ్ నోటిఫికేషన్, 2011 కిందకు వస్తుంది. సవలంచిన కెపిసిఎల్ దళ-3 విస్తరణ లేఅవుట్ స్థకారం, స్థరిపాబిత స్థాజెక్సు పనుల యొక్క సీఆర్జడ్ ఎలయా వివరాలను ఇన్ఫ్ట్మీట్యాట్ ఆఫ్ లెమోట్ సిగ్సింగ్, అన్నా యూనివల్లటీ ఇచ్చింది. సీఆర్జడ్ మ్యాప్ తయాలీకి ఈ యూనివల్లటీ అభికృత ఏజెక్సిగా ఉంది. సీఆర్జడ్ మ్యాప్ సూపర్ఇంపాడ్ చేసిన లేఅవుట్ని 1:4000 స్క్రీల్లో చేయడమైనది. స్థకిపాబిత సౌజిక్సను అంగ్రాథ్యదేశ్ కోస్టల్ జోన్ మేనేజ్ముంట్ అథాలటి (ఎపిసిజడిఎంఎ) అంచనా పేయబడింది మల్లియు లేఖ నం, 202/CRZ/IND/201930 తేటీ 21.05.2020న సీఫారసు పాందబడింది.
- 8. థరిపాటిక జ్రాజెక్ను కూర్పున బంగాణాఖాతం తీరం పెంబడీ ఉంది. ఈ డ్రాజెక్య గుండా కండలేరు డ్రీక్, ఉప్పటేరు డ్రీకీలు, బకింగిహ్యమ్ కెనాల్ వెతుతున్నాయి. మృవసాయ పాలాల్లోని సాగునీటి డ్రెయిన్లు, సర్మేపల్లి లజర్వాయర్ మలయు గోబిందనల్లి లజర్వాయర్లు ఇక్కడ ఉన్న ఇతర ఉపలకల నీటి వనరులు డ్రాజెక్ట్ సైట్ లోపల ఉన్న శాశ్వతం జాని డ్రెయిన్లకు విఘాతం కలగడు మలయు నీటి భవాహాలు ద్రభావితం కాకుండా డ్రెయిన్లపై రోడ్ మలయు రైలు టిడ్డీలు నిల్లించేందుకు కల్మర్లలు సిఇడి 1 మలయు సీఇడి 2 ద్రతిపాచించాలి. దళ 3 అభివృద్ధి డ్రాంతం లోపల ఉన్న మ్యాన్స్ గూన్స్ సులరక్షించాలి మలయు టైడల్ ఎక్స్ చేంజ్ కొరకు సమీపంలోని డ్రెయిన్ నుంచి సైపలైనలు వేయాలి. పక్షిమ డాక్స్ అభివృద్ధి చేసిందుకు కండలేరు డ్రీక్స్ ఉన్నగా చేయాలి. డ్రీక్స్ దాల మక్కించడం వల్ల కలిగే ద్రభావాన్ని ఎన్ఐఒటి అధ్యయనం చేసింది మలయు ఇలా చేయడం వల్ల నీటి మట్టంలో కొల్లగా మాత్రమే మార్లు ఉంటుందని మలయు ద్రతిపాచిత అభివృద్ధి వల్ల ప్రవీంగ్ మలయు ఖైడల్ ఎక్సేవేంజ్ఫ్ దర్శావం ఉండదని పెల్లడైంది.
- తీ. ట్రస్పుకు పోర్యుకు 5 ఎంఎలోడి నీటి సరఫరా ఉంది. దీనిలో ఆంధ్రప్రదేశ్ ప్రభుక్వం ముక్కుకుళారు లిజర్యాయర్ నుంచి 1 ఎంఎలోడి సరఫరా చేస్తుండగా ఆంధ్రప్రదేశ్ రాష్ట్ర ఇరిగేషన్ శాఖ నక్కలకాల్వ నుంచి 4 ఎంఎలోడి నీటిని సరఫరా చేస్తోంది. ఈ ప్రస్తుక పోర్యు (దశ-1 మలియు దశ-2 అభివృద్ధి) 2.5 ఎంఎలోడి నీటిని వీనియోగించుకుంటోంది. ప్రతిపాబిక దశ 3 అభివృద్ధికి నీటి అవసరం 2.5 ఎంఎలోడి ఉంటుందని అంచనావేయడమైనది. ఈ ప్రతిపాబిక దాశామ్య కోసం భూగర్య జలాలు తోడటం/మినియోగించుకోవడం ఉండదు.
- 10. మురుగు నీటిని శుద్ధి చేసేందుకు 700 కెఎలోడి సామర్థ్యంతో సీవేజ్ జ్రోటిమెంట్ ప్లాంట్ (ఎస్ట్ టిప్) మలయు పోర్భాలోని వ్యర్థ నీటిని శుద్ధ చేసేందుకు 300 కెఎలోడి సామర్థ్యంతో ఎఫ్హూయెంట్ జ్రోటిమెంట్ ప్లాంట్ (ఇటిపి) నెలకొల్వాలగి పోర్డు ప్రతిపాటించింది. శుద్ధి చేసిన వ్యర్థ నీటిని గ్రీన్బోల్లకి మలయు దుమ్ము అజచివేత వ్యవస్థలకు ఉపయోగించడం జరుగుతుంది. పోర్టు సలహద్దు వెంబడి మలయు పోగ్గు నిల్వచేసే ప్రాంతాల్లో 120 హిజ్జారల విస్తీర్ణంలో స్థానిక తెగకు చెందిన మొక్కలతో గ్రీన్టల్లోని అభివృద్ధి చేయడమ్మైనది.
- 11. ప్రాణెక్ను వల్ల కలిగే ద్రయోజనాలు: ద్రతిపాచిత అభివృద్ధి పనులు నైపుజ్యం గల మరియు నైపుజ్యం లేగి కాల్మిక (లేజిలో స్థానిక ద్రజలకు ద్రత్యక్షంగా మరియు పరోక్షంగా భారీ స్థాయిలో ఉపాధి అవకాశాలు కర్టిస్తుంది. సీఎస్ఆర్ ద్వారా పోర్మ పరిసర ప్రాంతాల్లో స్థానిక మౌలికసదుపాయాల్లో పురోగతి ఉంటుంది. సిర్మాణ మరియు నిర్మహణ దశలో దాదాపు 6200 మంది ప్రజలకు ఉపాధి లభిస్తుంది. పాల్గణామికీకరణ వల్ల పెరుగుతున్న కార్స్ డిమాండ్ ని తీర్వడానికి ప్రతిపాచిత అభివృద్ధి సహాయమడుతుంది. ఇది కళ ప్రాంతంతో పాటు దేశ అర్థకాభివృద్ధికి దోహదపడుతుంది. ప్రతిపాచిత అభివృద్ధి వల్ల పెలిగిన అదాయం కస్టమ్స్ అండ్ ఎక్హెక్, రైల్మేస్, వాణిజ్య వన్నలు మరియు అదాయపు పన్న లాంటి కేంద్ర ప్రభుత్మ శాఖల ఖజానాకు దోహదపడుతుంది. ఇది అంతిమంగా అదాయం వాటా మరియు లేజు అద్దెల రూపంలో అంద్రప్రదేశికి కూడా దోహదపడుతుంది.
- 12. ఇటుఎ కన్నల్లెంట్ M/s చోకమండలం ఎంఎస్ లస్క్ సర్వీసెస్ లిమిటెడ్, చెన్నైతో పాటు ఊజెక్కు ప్రతిపాదకులు 14 డిసెంటరు 2020న జలగీన 249వ ఇఎసీ సమావేశంలో బీడియో కాన్ఫరెస్సింగ్ ద్యారా సమర్వణ చేశారు. ప్రాణెక్కు ప్రతిపాదకులు సమర్వించిన మరియు ఇచ్చిన వివరణలపై మరియు అన్ని విషయాలపై చేసిన వివరణ్లున చర్వలపై అధారపడిన ఇఎసీ, సదరు ప్రాణెక్కు/యాక్టివిటికి 4 జనవం, 2019 తేబీన ఓఎం ద్వారా మంత్రత్య, శాఖ తెలియజేసినట్లుగా ఇతర ప్రామాజిక ఇసీ షరకులతో పాటు స్వష్టంగా నిర్దేరించిన నిర్దిష్ట షరకులతో ఈ ప్రాణెక్నుకు పర్మావరణ మరియు సీఆర్జక్ క్రియరెన్ట్ మంజారు చేయవలసించిగా సిఫారసు చేయబడుతోంది.

- (V) తీసుకునే మలయు విడుదల చేసే బీటికి మధ్యలో గల ఉప్పోగ్రత వ్యత్యాసాలను నిర్మహించేందుకు ఉంజెక్కు ప్రతిపాదకులు స్టాన్ రూపొంంచించి అమలు చేయాలి
- (vi) నిర్మాణ సైట్లోలో ఇంధనం/ఇంజిన్ అయిల్ మలియు లూటికెంట్స్ చిందడం వల్ల సింబ్రీయ కాలుష్కం ఏర్హడి, ఇబి సముద ఊణులను థ్రభాఖికం చేస్తుంది. తగిన ముందుజాగ్రక్తలు తీసుకోవడం ద్వారా మలియు చించినదానిని పట్టుకునేందుకు అవసరమైన యండ్రాంగాలను అందించడం ద్వారా కూడా బీగిని నిరోభించాలి.
- (vii) ස්නාධාලය සහ අත්ත්ර සහ අත්ත්ර ලාම සහ කරවා දැන්න සහ අත්ත්ර සහ අත් සහ අත්ත්ර සහ අත
- (viii) ట్రాజెక్ను నుంచి ఉత్తత్తి అయ్యే వ్యర్థ సిటిగి శుద్ధి చేసేందుకు సీవేజ్ (టీటెమెంట్ ప్లాంట్గా నెలకొల్వలి. శుద్ధిచేసిన నీటిని హాల్డకల్వర్, స్టప్సింగ్, బ్యాక్వాష్, హెచ్ఐఎస్ ఉద్దేశాలకు మలయు దుమ్ము సెస్టెర్బర్ల్ కి ఉపయోగించాలి.
- (ix) శుద్ధిచేసిన ఎఫ్మాయెంట్/శుద్ధిచేయని ఎఫ్హూయెంట్లను చివల డిస్వాజల్ పాయింట్లో పాటు థ్రణా సీవర్/డిస్వాజల్/డైనేజ్ సిస్టమ్లోకి డిశ్వర్థ్ చేసేందుకు సంబంధిక అధికాల నుంచి సలైఫికెట్ తీసుకోవాళి.
- (x) నీటి వనరుల మంత్రిత్వ శాఖ నుంచి ముందుగా అనుమతి తీసుకోకుండా నది యొక్క సహజమైన గమనాన్ని మక్కించకూడదు.
- (xi) గీటి ముఖ ద్వార సదుపాయాల్లో కోత నియంత్రణ చర్వలన్నిటినీ తీసుకోవాలి. భూమి నుంచి తీర్వపాంతం/సలహద్దు గీత నుంచి సముద్ర గీటి బాడీలోకి కోసుకుపెళవడాన్ని నివాలంచేందుకు భూమి రక్షణ పగి నిర్వహించాలి.

- (ii) వాఠానాలు, పవర్ యండ్రాలు మలియు సైట్లోగి పలకరాల నుంచి వెలువడే ధ్మగి గిల్జీక పలమితిగి మించకూడదు. పలకరాలకు ఉమంతస్వకుండా సల్మీసు చేయాలి; మష్టర్ మెయింటెన్స్టీకి మలియు ధ్మగి వచ్చే పలకరాలకు ఎన్క్లోజర్ కల్పించడాగికి కూడా ఉద్ద చూపాలి.
- (iv) නවත්වප දැනි බලුගානා E(P)A rule, 1986ණී ද්යාහාදාගේ ජ්ව්වා දර්ශාව දෙන වේ සම්ප්ර නවත්ව පාල නිෂණී 70 dB(A) ස්වෙන්වා

V. ఎనల్జీ పలిరక్షణ చర్యలు:

- (i) భవనాల రూఫ్ల్ టాఫ్ల్ సేకలార్ పవర్ ఉత్తత్త, అగ్ది కామన్ పిలయాలకు సేకలార్ లైట్ సిస్టమ్, బీథి బీపాలు, ప్రాజెక్టు పిలయాతు దలడాపుల్లో పాల్కంగ్ పిర్వాటు చేయాలి మలయు బీటిని రెగ్స్మలర్గా మెయింటెయిన్ చేయాలి.
- (ii) කෘජු සංලදුවරාවේ කවරාා බවරා බවරාවේ යව්සයි වූඩ්වා බලාඩා ස්රාමේ.

VI. వ్యర్థపదార్థాల నిర్వహణ:

- (i) ැඩිද්රි ඩාභ්වරාවේව විභාගාර එර ආලේ රාර්ම්ර්ර වාර්ථ විභාගාර එර අවත්ව අවත්
- డింపింగ్ వల్ల తీరడ్రాంతానికి విఘాతం తంగకూడదు. తీర డ్రాంతంలో మార్వలపై అధ్యయనాన్ని ఎష్టటికవ్వడు చేయాలి మలయు అవసరమైతే తీడ్రత తగ్గించే చర్యలు నిర్వహించాలి. వివరాలను ఆరు-నెలలవాలీ పర్మవేక్షణ లపోర్వలతో పాటు సమల్పంచాలి.
- (iii) ఎఫ్లూయెంట్స్ మరియు సాలిడ్ వేస్టులను శుద్ధి చేసేందుకు అవసరమైన ఏర్వాట్లు కష్టకుండా చేయాలి మరియు కేంద్ర లేదా రాష్ట్ర కాలుష్క నియంత్రణ మండలితో సఫక్ సంబంభిత అభికారులు పొందుపలిచిన ద్రమాణాలను మరియు పర్యావరణ (రక్షణ) చట్టం, 1986ని కష్టకుండా పాటించాలి.
- (iv) ఘన వ్యర్థ పదార్వాలను సాలిడ్ వేస్ట్ మేనేజ్ముంట్ నిబంధనలు, 2016 నిబంధనల ప్రకారం నిర్మహించాలి మలియు విసల్టించాలి.
- (V) నిర్మాణం మలియు దీనికి సంబంధించిన కూత్మివేక పనుల నుంచి వెలువడే ఘన వృద్ధ పదార్థాలు ఏవైనా కన్స్మక్షన్ మలియు డిమాలిషన్ వేస్ట్ మేనేజీమెంట్ నిబంధనలు, 2016 నిబంధనల ప్రకారం తప్పకుండా నిర్మాలంచాలి.
- (vi) ముగ్గిపల్ ఘన వృద్ధి పదార్థాలను సంభాశంచే సంబంధింత అధికాల నుంచి సర్టెఫికెట్ తీసుకోవాలి, సంభాలించడంలో ఉన్నుత సిఖిక్ సామర్థ్యాలు మలయు ఉంటెక్టు నుంచి ఉత్తాచించిన ఎం.ఎస్.డబ్ల్యుని తీర్హణానికి కావలసినవి ఉన్నాయనే విషయం సూచించాలి.

VII. เก็ม ฮ

- - වූ කණුව විට්ෆං වන_ු చేయాව කවගා ල්.నී ඔහු ඉතකුළුණ් ස්කගැංරිං සංච.

VIII. సముద్ర పర్యావరణం:

- (i) ఏర్పడిన మరినాలు చేపల సంఖ్యపై ఒత్తిడిని నిరోభించేంత క్యరగా విడుదలయ్యేలా డెడ్డింగ్ షెడ్యూలును ద్రణాశక చేయాలి.
- (ii) ලිශිල්රුති විරදුණිංං නිර්කුණය, නිදහනතවූ කාඩරකු නීතීරණන නිදහන්දු බිම්හුී/තිරකුම යතුලා කුණරුණ ක්රුණ්ඩුක නීරණව කාචරණ බිඩුනා නිමණාම නිදහන්ර රකාවර යනයිම් ලිපදහනුම ලිපමන්ඩමන් මන්තරතුවන් ප්රදුණ ම්භාණිතාව.
- (iii) పివరమైన మెరైన్ బయోండైవల్లటి మేనేజ్మెంట్ ప్లాన్ళి ఎన్ఐఒ ద్యారా లేదా మెరైన్, జూకీష్ వాటర్ మలయు బయోండైవల్లటిపై పేరు ఉ్ర్యూత్తుల గల పడ్డినా ఇతర సంస్థతో తయారు చేయాలి మలయు రాష్ట్ర బర్యూడైవల్లటి బోర్వుకు మలయు సీఆర్ఐడ్ అభికాలకి సమల్లంచాలి మలయు వాళ్ళకు సంతృప్తి కలిగేలా అమలు చేయాలి, ఇంటర్ బ్రెడల్ బయోట్స్లో పగరాలు, మొలస్యాలు, సముద్రపు గర్తి, సముద్రపు కలుపులు, సబ్-టైడల్ హక్వబిటట్స్, చేవలు, బెంతోస్, ఫ్లాంకేటన్, టల్టల్స్ పట్టులు అదితర వాటితో సహా ఇతర సముద్ర మలయు అక్కాటికి, మేర్లులు అదితా సహా ఇతర సముద్ర మలయు అక్కాటికి, మ్యాంక్ మెల్లో, మ్యాంక్ మలయు మెగా వృడ్త జాతులపై ఉండెక్సు పనులు టిట్లావంపై అధ్యయనం ఆధారంగా లిపెకర్మ ఉండాలి. డేటా నీటరణ మలయు అర్హాంచిం మదింపు ప్రామాజిక సర్మే పద్ధకుల ప్రకారం ఉండాలి మలయు అండరోవాటర్ ఫోట్ఫోగ్ఫ్ ఉండాలి.
- (iv) సముద్ర కలుపులు, సముద్ర గడ్డి, బురద నేలలు, ఇసుక ఉన్నెలు,చేపలు, ఎకినోడెర్డ్ల్, రొయ్యలు, ఆణోత్తు, పగడాలు, తీరణాంత వృక్షాలు, మ్యాన్(గ్రోక్స్ మలయు సముద్ర జీవవెనిద్దం అంటి సముద్ర వర్మానరణ్యు కుడా అమంత్స్తకుండా పర్మవేద్దించాలి.

- 12. ఇబఎ క్వర్టైంటో Ws చోతమండలం ఎంఎస్ లస్క్ సల్వీసెస్ 9మిటెడ్, చెన్నైతో పాటు ఉంతెక్కు ఉంపాదకులు 14 డిసెంబరు 2020న జలగిన 249వ ఇఎస్ సమావేశంలో మీడియో కాన్ఫరెగ్సింగ్ ద్వారా సమర్వణ చేశారు. ఉంతెక్కు డ్రతిపాదకులు సమర్వించిన మరియు ఇచ్చిన వివరణలపై మరియు అన్ని నిషయాలపై చేసిన వివరణ్లున చర్వలపై అధారపడిన ఇఎసీ, సదరు ఉంతెక్కు/యాక్డివిటికి 4 జనవల, 2019 తేదీన ఒఎం ద్వారా మంత్రిత్య శాఖ తెలియజేసినట్లుగా ఇతర ఉంమాజీక ఇసీ షరకులతో పాటు స్వష్ణంగా నిర్దేశించిన నిల్లిష్ట షరకులతో ఈ ఊతెక్కుకు పర్యావరణ మరియు సిఆర్ఇడ్ క్లియరెన్స్ మంజారు చేయవలసించిగా సిఫారసు చేయబడుతోంది.
- 13. నిపుబుల అమ్లైజల్ కనుటి (మౌలికసదుపొయాలు, సీజర్జడ్ మలియు ఇతర (పి.జెక్టులు) చేసిన సిఫారసుల అధారంగా (పఠిపాదనను వర్యావరణ, అటవీ మలియు పాణావరణ మార్పు మండ్రిత్య, శాఖ పలిశీలించింది మలియు ఇలాంటి (పొజెక్టులకు వర్తించే ప్రామాణిక షరకులస్విటికి అదనంగా నిర్దిష్ట షరకులసు కచ్చికంగా అమలు చేయడానికి లోబడి, ఇబ్బు నోటిఫికేషన్, 2006ని సవలంచినట్లుగా మలియు సీఆర్జడ్ నోటిఫికేషన్ 2011 కింద, ''ఎస్పెఫిఎస్ఆర్' నెల్మూరు జిల్లా, ఆంధ్రప్రదేశ్లో M/s కృష్ణపట్నం పోర్టు కంపెనీ లిమిటిడ్ చేపట్టిన కృష్ణపట్నం పోర్టు కంపెనీ లిమిటిడ్ చేపట్టిన కృష్ణపట్నం పోర్టు (దశ 3) విస్తరణ'' కోసం పర్కావరణ మలియు సీఆర్జడ్ క్లియరెస్ట్ మంజారు చేయాలని ఇందుమూలంగా నిర్ణయించింది.
- (i) ఉంజెక్సుకు పర్కావరణ మలియు సిఆర్ఆడ్ క్లియరెన్స్ ఉంభమికంగా ఇబఎ నోటిఫిలేషన్, 2006 మలియు సీఆర్ఆడ్ నోటిఫిలేషన్, 201.1లోని నిబంధనల కింద ఉంది. ఏదైనా ఇతర చట్టం/నిబంధన/రెగ్స్వలేషన్ కింద పాందవలసిన ఆమోదాలు/సమ్మతి/అనుమతులకు ఇది సమానం కాదు. ఉంజెక్సుకు వర్తించినట్లుగా ఏమైనా ఇతర చట్టలు/నిబంధనల లేదా శాసనాల కింద ఆమోదాలు/క్లియరెన్స్ పాందవలసిన బాధ్యత ప్రాజెక్సు ప్రతిపాదకులకు ఉంది.
- (iii) నిర్మాణ పనులను తప్పకుండా కచ్చికంగా సీఆర్జడ్ నోటిఫికేషన్, 2011లోని నిబంధనల ప్రకారం చేవట్యాలి. కోస్టల్ రెగ్యులేషన్ జోన్ నోటిఫికేషన్లో అనుమతించినట్లుగా మినహా కోస్టల్ రెగ్యులేషన్ జోన్ ఇకరణా ఎలాంటి నిర్మాణ పనులు చేయకూడదు.
- (iv) ఆంధ్రప్రవేశ్ కోస్టల్ తోన్ మేనేజ్మెంట్ అథాలటి (ఎపిసిజడ్ఎంఎ) లేఖ 202/CRZ/IND/201930 తేదీ 21.05.2020 ద్వారా తెలియజేసిన సిఫారసులు మరియు షరతులు అగ్రిటిగ్రీ పూల్చచేయాలి.
- (v) ලං සින් විභ්ණ වීන්ස්ත් රිබුතා නිතාව ස්ල ලිව්වා ඒයා ත්රාහා නාංගන්න්නෙරයා ලං මෙන් ගිරීමාරන්න භාලාව නවරගා විරා බ්යුස්තා ගින්නාරවීම ස්කාශවේ. ලිව් වීම තරුබිණ ල්ලාබ්ව වලාස රජණී කොවාවීරගාවේ.
- (vi) පතුු මහඩ් පතුත හරුක්සට කිල්කර මිරුණ මිරුණ මිරුන් කිල්බ් සම්වේත මෙන්නු ක්රියාව.
- (vii) කිම්මාවේ නතුරුගෙන කාඡුන වීමේ 60 නාවරාව හැ. නිසි කිහදු (ඔවුල් වීම හෙතු, අංග. කිරපුම් නිසිය ලාං මෙන ක්රියාන කිරපුම් නිසිය ලාං මෙන ක්රියාන 26 නාවරාවේ විසිය ලාං මෙන ක්රියාන කිරපුම් නිසිය ලාං මෙන ක්රියාන 26 නාවරාවේ විසියාන කිරපුම් නිසිය ලාං මෙන ක්රියාන - (viii) ఫైటోష్లాంకేటన్, జావ్యాంకేటన్క్ మ్యాతోబెంధోస్, అభయారణ్యాలు, సముద్ర గడ్డీ, నాచు, సముద్ర కలుపులు, జ్రస్మిషియన్స్, చేపలు, పగడపు బిబ్బలు మలియు మ్యాన్(గోప్ ప్ రక్షణ కొరకు సముద్ర పర్వావరణ పర్వవేక్షణ మలయు దానిని తగ్గించే చర్మలను ఇబఎ-ఇఎంపి లిపోర్యలో ఇచ్చినట్లుగా తూచ తప్పకుండా ప్రఖ్యాత సంస్థల లేదా సదరు అంశంలో పలణ్మనం కలిగిన దేశ స్థాయి ప్రఖ్యాత వ్యక్తులతో అమలుచేయాలి.
- (X) థధాన ల్యాండిస్కేప్ మార్వలను తగ్గించేందుకు థుకిపాచిత ల్యాండిస్కేప్ థ్రణాకిక కాన్స్పోపై థ్రకారం చర్యలు ఉండాలి. భూమిని ఉపయోగించే విధానంలో మార్వను థుకిపాచిత పోర్యు హద్దులకు పలమితం చేయాలి మలయు వరద నీటి నెట్వర్కతో సహా ఉపలతల డ్రెయినేజ్ సిస్టమ్లలను ఇవ్వడం ద్వారా తగిన డ్రెయినేజ్ ఉండేలా చూడాలి.
- (xii) අනය වඖරහුණ సమల్పంచిన නිානීෆ්షన్ చర్యలన్నిటినీ మ్యాటిక్స్ ఫొర్మాటోలో తయారు చేయాలి మలయు ప్రతి మిటిగేషన్ ఫ్లాన్ అనువర్తనను అర్ధ సంవత్సర వర్తింపు నివేచికతో పాటు ఆరోజ, ఎంఒఇఎఫ్ఆండ్సిసికి సమల్పంచాలి.
- (Xiii) కంపెనీల చట్టం 2013 థ్రకారం కార్వోరేట్ సామాజిక బాధ్యక థ్రణాకికను కంపెనీ రూపాందించి, అమలు చేస్తుంది.
- (xiv) మండ్రక్క శాఖ కార్కాలయం మెమొరాండం ఎఫ్. నం. 22-65/2017-IA.ill కేబీ 30 సెఫ్టెంబరు, 2020 ద్రణారం, ద్రజా సంద్రదింపుల సమయంలో లేవనెక్తిన అందోళనలను పలష్కరించేందుకు అము కట్టుబడిన నిబద్ధకలన్నటికీ డ్రాజెక్టు ద్రతిపాదకులు కట్టుబడాలి. ద్రజాభిస్తాయ నేకరణ సమయంలో చేసిన నిబద్ధకలన్నటికీ డ్రాజెక్టు ద్రతిపాదకులు కట్టుబడాలి. ద్రజాభిస్తాయ నేకరణ సమయంలో చేసిన నిబద్ధకలన్నై ఆధారపడి, తాము ద్రతిపాదించిన కార్మకలాపాలను పాలెక్టు ద్రతిపాదకుడు చేపట్టాలి, పర్యావరణ నిర్వహణ ప్లాన్లలో చేల్ప మండ్రక్క శాఖకు సమర్వించాలి. కాలుష్క నియంత్రణ, పర్యావరణ రక్షణ మలయు పలిరక్షణ, ఆరోతండ్ న వర్మపాలతో సహా ఇతర కార్వకలాపాలన్మెటినీ మలయు ఎన్ఎవితో సహా అటిపీ పలిరక్షణ చర్మలను, సామాజిక ద్రభావ మదింపు మలయు ఇవిఎ లిపోర్ను తర్మాలో సమయంలో నిర్వహించిన ఆరోతండ్తోకి కార్యాచరణ ద్రణాలక ద్రతిపాచించినవి లేదా ఇఎసీ థ్రిస్కయిపో చేసినవి కూడా అమలు చేయాలిని మలయు ఇఎంపిలో బాగమవుతాయి.

జు. (ప్రామండేక షరతులు:

l. చట్టబద్ధ సమ్మతి:

- (i) నిర్మాణ పనులను కచ్చకంగా సీఆర్జడ్ నోటిఫిలేషన్ 2011 మరియు రాష్ట్ర ప్రభుత్వం రూపొందించిన రాష్ట్ర తీర ప్రాంత నిర్వహణ ప్లాన్ ప్రకారం చేపట్టాలి. కోస్టల్ రెగ్కులేషన్ జోన్ నోటిఫిలేషన్లో అనుమతించినట్లుగా కోస్టల్ రెగ్కులేషన్ జోన్ ఇతరత్రా ఎలాంటి నిర్మాణ పనులు చేయకూడదు.
- (ii) @ාම්ඡාුණ මනාකාමර යනුල් ම්රීමේ නිංහා @ාම්ඡාූණ නිස්තුණ නිප්‍රත්‍ර විස්තුණු කිසිල් නිපව ප්රීත්‍රත්‍ර විස්තුණු ප්‍රත්‍ර වේ.
- ii) డీజిలోని నిల్వచేసుకునేందుకు చీఫ్ కంటోలర్ ఆఫ్ ఎక్సిప్లేజిన్స్, అగ్దిమాపక శాఖ, కోస్ట్ గార్డ్, పౌర విమానయాన శాఖ నుంచి ఆమోదాలు లాంటి ఇతర చట్టబద్ధ అనుమకులన్మిటినీ (ప్రాజెక్టు ద్రుతిపాదనలకు వల్తించిన విధంగా సంబంధిత అధికారుల నుంచి తీసుకోవాళి.

ෆාඩ තෘක්‍රණ බජ්‍රක්‍රිස්‍ කාචරණ බච්ජස්‍රක:

- (i) ఉల్డ్ల మలియు అధేముఖ చిశును కసర్ చేస్తూ కరీసం నాలుగు స్థానాలలో పాజెక్టు ఏలియా లోపల మలియు బయట విడుదలయ్యే ప్రధాన కాలుష్కాలకు (ఉదా: PM ఎమిషన్ సంబంధంచి PM10 మలియు PM2.5, మలియు SO2 మలియు NOx ఎమిషన్ కుంబంధంచి PM10 మలియు PM2.5, మలియు SO2 మలియు NOx ఎమిషన్ కుంబంధందా SO2 మలియు NOx) సంబంధందా మామూలు/ప్రామాణికత పరామికుల కొరకు పలసరాల గాళి నాణ్మక పర్వవేక్షణ చేసేందుకు సిస్టమ్ ప్రాజెక్టు ప్రతిపాదకులు ఇన్బ్ చేయాలి.
- (ii) నిర్ణయించిన ఉద్దారాల (ప్రమాణాలను అనువర్తించేందుకు, అనువైన మార్గాలన్మిటి నుంచి పుగిటివ్ దుమ్ముతో సహా దుమ్మును ఉత్వాదించే పాయింట్లు అన్మిటికీ సముచితమైన వాయు కాలుష్య నియంత్రణ (ఎపిసి) వ్యవస్థ ఇవ్యాని.
- (iii) పనిచేసే చోట డాక్/డ్రుకిపాటక ఫెసిలిటీ పీలయాను కష్టడం జరుగుతుంది. ఇది దుమ్ము కర్జెన్ వలె పనిచేస్పంది మలయు సైట్ నుండి సున్మా ఉక్షర్మాన్ని సౌలిస్తుంది. డై డాక్ అవరేషన్లను ప్రభావితం చేయకుండా గాలి అనాంకరాన్ని నిరోభించడంలో, వ్యర్థాలు చెల్లాచేదురష్మడాన్ని నిరోభించడంలో, కాల్మకులకు నీడ కర్మించడం ద్వారా పనిచేసి పలిస్టితులను మెరుగువరచడం ద్వారా ఈ కర్జెన్లలు లేదా కష్టలు చాలా ప్రభావవంతంగా ఉంటాయి.
- (iv) బ్లాస్టింగ్ (ఉపలకలాన్ని శుభరంచేయడం) మలయు పెయింటింగ్ పమలు చేయవలసిన చోట దుమ్ము కలెక్టర్లలను నియమించాలి, సమర్థవంతంగా చెల్లాచేదురయ్యేందుకు మెట్లు కట్టాలి.
- (v) ఎప్పటికప్పడు థిగ్రుయిట్ చేసిన ఉద్దారాల నిబంధనలను నౌకలు అనువర్తించాలి.
- (Vi) బ్యాక్ అప్ పవర్ సౌకర్హాం ద్రకిపాదించిన డీజిల్ పవర్ జెనరేటింగ్ సెట్ట్ ఎన్క్లోజిడ్ రకం మలియు పర్యావరణ (రక్షణ) చెట్టం, 1986 కింద చేసిన నిబంధనలను అనువర్హించేసై ఉండాలి. డీజి సెట్లు స్వాక్ ఎత్తు అన్న ద్రక్షిపాదిక డీజి సెట్లు రాష్ట్ర ప్రాక్షిప్ సమానంగా ఉండాలి. సల్టర్ తక్యువ గల డీజిల్గని ఉపయోగించాలి. డీజి సెట్లు లోకేషన్స్ రాష్ట్ర కాలుష్ఠ నియంత్రణ మండలిని సంద్రువించి నిర్ణయించాలి.
- (vii) స్టాంజెక్టు రేడియస్.కి 05 కి.మీ లోపు రోడ్ల యొక్క స్టుపుక సల్మీసు స్థాయి నిర్వహించబడేలా చూసిందుకు సవివరమైన ట్రాంఫిక్ నిర్వహణ మలియు ట్రాఫిక్ రర్జీని తగ్గించే ప్రాన్ స్టాన్ రూపాండించాలి మలియు స్టాంజెక్టు అమలును మెరుగుపరచాలి. స్టాంజెక్టు లేదా ఇతర ఏజెస్టీలు సైట్లోలో 5 కిలోమీటర్ల పలిట్లో వివిధ స్థలాలలో మలియు ఈ సమయంలో చేసే సమగ్రాభివృద్ధి మలియు నివాసాలను పెంచడం లేదా పెంచాలని ప్రతిపాచించడం యొక్క సంచిత ప్రభావంపై ఆధారపడి ఉండాలి మలియు నివాసం ఉండటాన్ని పెంచడం మలియు ట్రాఫిక్ నిర్మహణ ప్రజాతకను రాష్ట్ర పట్టణాభివృద్ధి శాఖ మలియు పి.డబ్ల్లుడి/కాంపిటెంట్ అథాలటి ఫర్ రోడ్ము ఆర్మెంటేషన్ సంపూర్ణంగా వ్యాలిడేట్ మలియు సల్వఫై చేయాలి మలియు ఈ శాఖలో పాల్గొనడం ఉండే ప్రణాతకలోని కాంపాసెంట్లును అమలుచేసేందుకు తమ సమ్మతిని కూడా ఇవ్యాలి.
- III. నీటి నాణ్యతను పర్వవేక్షించుట మరియు పరిరక్షించుట:
- (ii) తమ్మకం పనులు చేపట్టోటప్పడు నీటి నాజ్యత దెబ్బతినే అవకాశం లేని విధంగా సముచికమైన చర్యలు తప్పకుండా తీసుకోశాలి. (డెడ్జింగ్ ఏలయా లోపల (డెడ్జింగ్ చేసేటప్పడు విడుదలైన మడ్డి వ్యాపించడాన్ని అలకట్టేందుకు సిల్ట్ కర్టెన్లను తప్పకుండా ఉపయోగించాలి.
- (N) අංధనం మరియు පాරිද් භ්රහාභාන භංඛයකාවූ නිර්කාංධීරයාණ, නිරාරුමර්ධීරයාණ කවරයා වඡන්රි ධීනරයා දුළු ඡන්ණායක ම්නාභි්කාව.

- జయాబాక్స్లు విరాహిలు, విజాలస్వలు, సముద్రవు గెడ్డి, సముద్రవు కలువులు, సమాద్రదల వ్యాతిపెక్కు మండు గ్లాల్లో ప్రా సముద్ర మలియు ఆక్యాటిక్ మైక్రో, మ్యాక్లో మలియు మెగా వృక్ష జాతులపై ఉంజెక్క పనులు 6్రభావంపై అధ్యయనం ఆధారంగా లిపోర్డు ఉండాలి. డేటా సేకరణ మలియు ద్రభావం మదింపు ప్రామాణిక సర్వే పద్ధకుల ద్రణారం ఉండాలి మలియు అండరోవాటర్ ఫోటోగ్రఫీ ఉండాలి.
- (iv) సముద్ర కలుపులు, సముద్ర గడ్డి, బురద నేలలు, ఇసుక తిన్నెలు,చేపలు, ఎకినోడెర్డ్లో, రాయ్యలు, ఆటోళ్ళ, పగడాలు, తీర్మసాంత వృక్షాలు, మ్యార్గ్ గోన్ట్ మలియు సముద్ర జీవమైనిధ్యంలో భాగమైన చిన్న మలియు పెద్ద వృక్ష జంకు జుకులతో సమ ఇకర సముద్ర జీవమైనిధ్యం అంటి సముద్ర పర్యావరణాన్ని కూడా త్రమంతప్పకుండా పర్యవేక్షించాలి.
- (v) රුඩ බිටහයි සටයි සවස්ථාවක, නිරුදුමාශ අපරණුවීවෙන් නිණි දුන්නණය රුදනම්ණය ස්ථාර්ණයක ලාමිණු දුන්මකයන් සටයාවේ.

- (i) పనిచేసే స్థలం వృత్తిపరమైన ఆరోగ్యం మలియు సురక్షిత విషయాల్లో అంతర్వాతీయ ద్రమాణాలకు అనుగుణంగా ఉండాలి. విఒసిలతో సహా అవాంఛనీయమైన స్థాయిల్లో కాలుష్కాలు జమవ్వడాన్ని మలియు పేల్వడాన్ని నిరోధించేందుకు తాజా గాలి రెస్పిరోటర్లు, బ్లోవర్లు, మలియు ఫ్యాన్లు చేయాలి.
- (iii) පාවුණවරයවා මහා නිරීම විදුසුබුහි නිරමුණු එසිස සත්වේ කර්ථා නිරම පාවුණය කර්ථා සියිදුවී මනුණටක ලික්සේ වුණ්නු එසිස කර්ථා ක්ෂි (එඳීම්) කර්ථාව, ජෙ එසිස විද්යා විදුක්වරයා සත්වේ අවස් කර්ථාව, ජෙ එසිස විද්යාවර්ග විදුක්වරයා මහා සත්වේ නිරමාවර්ග කර්ථාවර්ග කර්ථාවර්ග සත්වේ සත්වර්ග සත්වර
- (iv) (ස්නාය්ජර බොජ, ඉංස්තා ක්වරා වඩාද කඩරන) (නිංධිසමර්ය) කවරා (ස්තුම බුන්විෂ වූව කුසමේ දෙපර්ටු සේ ක්රීර් වියුද්ජයා මක්වා විරාම්ව.
- (V) వంట చేసేందుకు ఇంధనం, మొజైల్ టాయిలెట్లు, మొజైల్ ఎస్ట్ టిస్ట్ ఎస్ట్ స్ట్రార్డ్ మాల్లెక్స్ స్ట్రార్డ్ స్టర్ట్ లోపల కాల్హకులకు హౌసీం నిర్మాణానికి ఏర్పాటు చేయాలి. (ప్రాజక్టు పూర్తయిన తరువాత తొలగించబడే అత్యానిక నిర్మాణాల రూపంలో హౌసింగ్ ఉంతామ.
- (Vi) కాల్షికుల యొక్క వృత్తిపరమైన అరోగ్య నిఘాను రెగ్యులర్ ఉాతిపదికన చేయాలి.

X. పర్యావరణ బాధ్యత:

- (i) బాగా రూపాంచించబడిన మలియు బోర్డు ఆఫ్ డైరెక్టర్లలు సంపూర్ణంగా అమోదించిన పర్యావరణ పాలసీ కంపెనీకి ఉండాలి. తగిన నియంత్రణలు మలియు బ్యాలెన్ట్లలు ఉండేందుకు మలియు పర్యావరణ/అటవీ/వన్యప్రాణుల నిబంధనలు/షరకుల ఉల్లంఘన/అతిత్రమణలపై దృష్టిపెట్టేందుకు ప్రామాణిత నిర్మహణ డుత్రీయలను పర్యావరణ పాలసీ ప్రిస్స్మయిట్ చేయాలి. పర్యావరణ/అటవీ/వన్యప్రాణుల నిబంధనలు/షరకుల మలియు/లేదా వాటాదారుల/భాగస్మాముల ఉల్లంఘన/అతిత్రమణను లిపోర్టు చేసిందుకు కంపెనీకి నిర్దీత వ్యవస్థ ఉండాలి. ఈ విషయంతో బోర్డు తీర్మానం కామీని అరు-నెలల లిపోర్టుతో భాగంగా ఎంఒకుఎఫ్ఆండేసిసికి సమర్వించాలి.
- (ii) స్టాజెక్టు మలియు కంపెనీ స్టర్లూన కార్యాలయం స్థాయిలో, అర్బలైన సిబ్బంబితో వేరే పర్యావరణ సెల్స్ సీనియర్ ఎర్జిక్యూటివ్ నియంత్రణ స్థాయిలో నెలకొల్వాని, అకను నేరుగా సంస్థ అభినేతకు లపోర్డు చేయాని.
-) ජටపెనీ యొక్క బాధ్యత మ్యాటిక్సితో పాటు ఇఎంపి మలియు పర్కావరణ ప్రకులను అమలు చేసేందుకు కార్కాచరణ ప్రణాకకను తయారు చేయాలి మలియు సంబంధిక అధికాల సంపూర్ణంగా ఆమోచించాలి. పర్కావరణ పలరక్షణ చర్యలు చేపట్టేందుకు సంవక్షరం వాలీగా కేటాయించిన డబ్బును వేరే అకౌంటోలో ఉంచాలి మలియు ఇతర పనులు వేటికీ ఈ డబ్బ ఉపయోగించకూడదు. సంవక్షరం వాలీగా కార్కాచరణ ప్రణాశిక అమలు పురోగతిని ఆరు నెలల వర్తింపు నివేదికతో పాటు మండ్రిత్య/టాంతీయ కార్మాలయానికి సమలించాలి.
- (iv) හිම විභා ත්හුරෝ න්පුංක්රක අයිභ් හිරුකාංකාව. (එම කාංජා හිංක්සුපාවේ කාංජක් ක්ෂුංමේ න්පුංක්රක අයිභ්ව හිරුකාංකාව.

XI. කුණුලාහා:

- (i) జిల్లా లేదా రాష్ట్రంలోని కనీసం రెండు స్థానిక బినపత్రికల్లో ద్రముఖంగా ద్రకటనలు ఇవ్వడం ద్వారా తమ ద్రాజెక్టుకు పర్యావరణ షరతులు మలియు పలిరక్షణలతో మంజారైన పర్యావరణ అనుమతి కాపీని ద్రజలకు వాళ్ల ఖర్వతో ద్రాజెక్టు ద్రతిపాదకులు అందుబాటులో ఉంచాలి. ద్రకటన ఇవ్వదడే బినపత్రికల్లో ఒకటి మాతృభాషబ అయిపుండాలి, మలియు ఏడు రోజుల లోపు ద్రకటించాలి మలియు పర్యావరణ క్షియరెన్స్ రి ద్రాజెక్టు ద్రతిపాదకుల వెట్ఫొట్లోలో కూడా శాశ్వతంగా ద్రదల్మించాలి.
- ii) పర్యావరణ అనుమతి కాపీలను డ్రాజెక్టు ద్రతిపాదకులు సంబంధిక ద్రభుక్వ కార్యాలయాలకో స్థానిక సంస్థల అధినేతలకు, పంచాయతీలకు మలియు మున్నిపల్ సంస్థలకు సమలించాలి. ఈ కాపీ అందిన శేబీ నుంచి 30 రోజుల లోపు బీనిని ద్రదర్భంలాలి.
- (iii) పర్వవేక్షణ డేటా ఫలిణాలతో పాటు నిర్దేశిత పర్కావరణ అనుమతి పరతుల అమలు స్థితిని ఉంజెక్టు ప్రతిపాదకులు తమ వెబ్సొట్లో అప్లోడ్ చేయాలి మలయు ఆరు నెలలకు ఒకసాల బీనిని అవిదేట్ చేయాని.
- (V) పర్యావరణ (పలరక్షణ) నిబంధనలు, 1986, ఆ కరువాత చేసిన సవరణల కింద డ్రిస్కయిట్ చేసినట్లుగా సంబంధిత రాష్ట్ర కాలుష్క నియంత్రణ మండలికి ఫారం-5 రూపంలో పర్యావరణ స్టేటిమెంట్ని డ్రాంకెట్ల డ్రతిపాదకులు సమల్పంచాలి మలయు కంపెనీ వెటిస్టైట్లో పెట్టాలి.
- (vi) ఉంజెక్టుకు సూచించబడిన PM₂₀, PM₃₀, SO₂, NOX (పలసరాల స్థాయిలు) అనే ప్రామాణికత కాలుష్కం స్థాయిలు లేదా కీలక సెక్టోలయల్ పేరామీటర్లను పర్వవేడ్షించాలి మరియు కంపెనీ యొక్క ప్రధాన గేటుకు సమీపంలో సౌకర్యంగా ఉండే చోకు ప్రజా భాహుక్యంలో ప్రదర్శించాలి.
- (vii) බුැතතුුරාවේ මුදිසරි කවරා හිටහටවුම ඉටුපත්වන ලිංඕණුණ මාධ මබාංධර, ආඛා ඉවතුඩු ලිංජරතුබුන් කවරා ලිංඕණු ఉණුමු කින්වා ලිංචරතුවන් මිඩ්ව ලාංඔණු ග්රීමාධණාව ලිංරම්රා පාලදුවරාගෙනීම් කවරා කරලිණු අඟුණ මිවරාම්රාවේ.
- (viii) రాష్ట్ర కాలుష్య నియంత్రణ మండలి మలియు రాష్ట్ర ప్రభుత్వం చేసిన నిర్దేశనలకు ప్రాజెక్సు అధికారులు కచ్చితంగా కట్టుబడివుండాలి.
- (ix) කුතය/කුයටහි වනිරිහුණි ත්රීන් නැලූතාවා ක්වරාා විදිහර්තාවා මඩුස්ප්, ලික හිතාරක තිකරාගේ ක්වරාා විතුකව මඩුස්ජ් නිකච්චා විතියිස්ණි ජාංශ ත්රීන් නැලූතාවම් ලාම්ජු ලිපිමාරජාවා ජිඩාහනවේ.
- (x) పర్యావరణ, මහති మరియు వాణావరణ మార్పు (ఎంఒఇఎఫ్అండ్సీసీ) మంత్రిక్క శాఖ నుంచి ముందుగా ఆమోదం లేకుండా పోర్టు పేలియాలో మరింతగా విస్తరణ లేదా మార్పులు చేయకూడదు.
- మార్చవాలను దాచిపెట్టడం లేదా తప్పడు/కల్పిక డేటాను సమర్వించటం వల్ల ఈ పర్యావరణ ఆమోదం ఉపసంహాలించబడవచ్చు మలియు పర్యావరణ (పలిరక్షణ) చట్టం, 1986 నిబంధనల కింద చర్య తీసుతోబడుతుంది.
- (xii) పైన ఇవ్వబడిన పరకుల్లో వేటినైనా సంతృప్తికరంగా అమలుచేయకపోతే, అనుమతిని మంత్రిక్క శాఖ వెనక్కి తీసుతోవచ్చు లేదా సస్పెండ్ చేయవచ్చు.
- (xiv) හිට්ස්රංධන කුරණව මකානානා ಈ කාරුමණු සංක ලිංරම්ගා පාපැදුවෙගාර නිරුබ්දුීනුරුවේ. පාක්වේහන් ඕණා/ තිණාස්තර්ර නිරුබ්දුක එමණිරාූනා තික්වූරුවේගේ සැලස් ලාංරම්ගා පාපැදුවගාර පෙළුපඟිවන් ලාංකිණු මඳාපඟිනා තිරෙණුවූ තිණපාපර මංගීරයකව්.
- (XV) වූ ත්රණවත් වීස් (ෂාවාක්, විරිශ්ස් ක්වරාා වරාරුල්ස) එතුර, 1974, නංගා (ෂාවාක්, විරිශ්ස් ක්වරාා වරාරුල්ස) එතුර, 1981, ත්පැත්ව (නිවර්ස්ස) එතුර, 1986, ලික්කර්ජර ක්වරාා අපර කුලාව (විරුණුම කවරාා ලාංක්, මිට්ටේ සිත්වර්) වනරේත්ව, 2016 ක්වරාා ලිස්ස් වරාග්වීස් අත්පුල්, එහුර, 1994, වනරේත්ව කවරාා අපර ක්වල්ව එහින එක්වර් අත්පුල්, එමුර්, විරුණුම ක්වරාා අපර කිවුන් සම්ප්‍රිතිත සමේබ්වත් එමුර්, වෙන එම්ක් වූ කිවුන් කරන්න සම්ප්‍රිතිත සමේබ්වත් එමුර්, වන් විරුණුම කිවුන් සම්ප්‍රිතිත සමේබ්වත් එමුර්, වන් විරුණුම කිවුන් සම්ප්‍රිතිත සම්බ්වත් එමුර්, වන්න වන්න වන්න සම්ප්‍රිතිත සම්බ්වත් සම්ප්‍රිතිත සම්ප්‍ය සම්ප්‍රිත සම්ප්‍ය සම්ප්‍ය සම්ප්‍ය සම්ප්‍ය සම්ප්‍ය සම්ප්‍ය සම්ප්‍ය සම්ප්‍ය
- (xvi) ఈ ఇసిపై ఏదైనా అప్దీలును నేషనల్ (గీన్ ట్రిబ్కునల్ చట్టం, 2010, సెక్షన్ 16 కింద బ్రిస్యయిబ్ చేసినట్లుగా, 30 రోజుల లోపు నేషనల్ (గీన్ ట్రిబ్కునల్క్ చేయాలి.
- 19. පංරීම්ට වේ ඉහළුවේ බොජු ඉඩාහරමේ ඉඩ කච්ඨිණවශීරයි.

(అమరోదీప్ రాజు) సైంటిస్ట్-ఇ

> (මකාරිඩ්ඩ් පංෂා) චූරභී්ච්-න

ණ ළුරුධ කංඑම් නිඡ්නා:

- . ద ప్రిస్సిపల్ సెక్రటల, డిపార్యమెంట్ ఆఫ్ ఫారెస్ట్ అండ్ ఎస్విరాన్మాంట్ అండ్ చైర్మన్, ఎపిసిజడీఎంఎ, గవర్మమెంట్ ఆఫ్ అండ్రభదేశ్, ఎ.పి.సెక్రటేలియట్, వెలగఫూడి, అమరావతి, ఎ.పి.
- 2. ద చైర్హన్, సెంట్రల్ పాల్యూషన్ కంట్రోల్ బోర్డు, పలవేష్ భవన్, సిబిడి-కమ్-ఆఫీస్ కాంప్లెక్స్, ఈస్ట్ అర్జున్ నగర్, ఢిల్లీ-32.
- ద మెంబర్ సెత్రటల, ఎపి పాల్యూషన్ కంట్రోల్ బోర్డు, చలమలవాల స్ట్రీట్, కస్తూలబాయిపేట, విజయవాడ-520 010
 ద ఎపిసిసిఎఫ్ (సి), తుల్జాగూడ కాంప్లెక్ట్, బిబ్బింగ్, ఎం.జె. మార్కెట్, హైదరాబాద్, (అండ్రథదేశ్)-500001.
- మానిటెలంగ్ సెల్, ఎంటఇఎఫ్అండెసిసి, ఇందిరా పర్యావరజ్ భవన్, న్యూఢిల్లీ.
- 6. ෆංර් බුව්/වපරු බුව්
- 7. నోటీసు బోర్డు.

ఇది ఇంగ్లీష్లలో జాల్చేసిన పర్యావరణ ఆమోదం కాపీ మరియు దీని అసలు కాపీ ఎంటఇఎఫ్అండిసిసి వెబ్బెట్లోలో లభిస్తుంది. ఇది ఇక్కడ జాలీచేయబడిన ఆదేశాలకు అనుగుణంగా ఉంది మరియు సమాచార (పయోజనాల కోసం మాత్రమే ఇవ్వబడింది. ఒకవేళ తేడా ఏమైనా ఉంటే, ఇంగ్లీష్లో ఉన్న అసలు పర్యావరణ అనుమతి మాత్రమే చెల్లుకుంది మరిం

KRISHNAPATNAM PORT COMPANY LTD.



Ref: KPCL/EC/EHS/005-2021

Date: 12/01/2021

To
The Environmental Engineer
AP Pollution Control Board
Regional Office,
A.P.S.F.C. Building, A.K. Nagar
Sri Potti Sriramulu Nellore

Sub: Submission of Environmental and CRZ clearance for "Expansion of Krishnapatnam Port (Phase III) at SPSR Nellore District, Andhra Pradesh" - Regd.

Ref: Environmental and CRZ Clearance for Phase – III vide File No: 10-18/2016-IA.III dated 11.01.2021.

Dear Sir,

As per the condition in XI. Miscellaneous, point (ii) of Environmental and CRZ clearance cited above, Krishnapatnam Port is herewith submitting copy of Environmental and CRZ clearance accorded to Krishnapatnam Port for "Expansion of Krishnapatnam Port (Phase-III) at SPSR Nellore District, Andhra Pradesh".

Kindly acknowledge the receipt of the same.

Thanking you

Yours truly,

For KRISHNAPATNAM PORT COMPANY LIMITED

G. Venugopal Reddy

DGM-EHS

Encls: As above



P.O.Bag No.1, Mutthukur Mandal, SPSR Nellore District, Andhra Pradesh - 524 344. India.

Tel: +91-861-2377999 Fax: +91-861-2377046 Email: customerservice@krishnapatnamport.com URL: www.krishnapatnamport.com

CIN: U45203AP1996PLC023529. Tel: +91-891-2754602, Fax: +91-891-2747362



Ports and 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 – 1A.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.

Encl: Above reference.

With kind regards,

Yours sincerely.

for Adani Krishnapatnam Port Ltd.,

Dy. General Manager, Corporate Affairs.

Adani Krishnapatnam Port Ltd (Formerly Krishnapatnam Port Company Ltd) PO Bag No 1 Muthukur Mandal

SPSR Nellore 524 344 Andhra Pradesh, India CIN: U45203AP1996PLC023529 Tel +91 861 237 7999 Fax +91 861 237 7046 info@adani.com www.adaniports.com



లేఖ నెం. కె.పి.సి.ఎల్/2021, తే.01.02.2021.ది

To

- 1. బి పంచాయితి సెక్రటరీ, గ్రామ పంచాయితి కార్యాలయము, ముత్తుకూరు.
- 2. బి పంచాయితి సెక్రటరీ, గ్రామ పంచాయితి కార్యాలయము, కృష్ణాపట్మం.
- 3. ది పంచాయితి సెక్రటరీ, గ్రామ పంచాయితి క్వార్యాలయము, నాలికేళ్యపలి.
- 4. ಬಿ పంచాయితి సెక్రటరీ, గ్రామ పంచాయితి కార్యాలయము, పంటపాశెం.
- 5. బి పంచాయితి సెక్రటరీ, గ్రామ పంచాయితి కార్యాలయము, తమ్మినపట్నం.

စ်ထာ္မွာ!

కృష్ణపట్నం పార్వు, ఫేజ్-III, శ్రీ పాట్టి శ్రీరాములు నెల్హూరు జిల్లా, ఆంధ్రప్రదేశ్ -**බ**නුරාකා

పర్యావరణ మరియు సి.ఆర్.జెడ్ కియరెన్స్ గులించి తెలియజేయుట.

సూచిక నెం.10-18/2016 — I ఎ, 3, ప్రపాఠీజల్ నెం.1ఎ/ఏ.పి/ఎం.ఐ.ఎస్/566/2009,

తే.11.01.2021.ది మినిష్ట్రి ఆఫ్ పర్యావరణ మార్పు, (ఇంప్యాక్ట్ అసెస్కెంట్ డివిజను),

న్యూఢిల్లీ.

ఇందుమూలముగా తెలియజేయదమేమనగా, పై సూచిక ద్వారా, కృష్ణపట్నం పోర్టు, పేజ్-III, శ్రీ పాట్టి శ్రీరాములు నెల్లూరు జిల్లా, ఆంధ్రప్రదేశ్ వాలికి పర్యావరణ మలియు సి.ఆర్.జెడ్ క్లియరెన్స్ వచ్చినదని తెలియజేయడమైనది. ఇందువెంట పై సూచిక జతపరచడమైనది.

Panchayati Secretary Gramapanchayati Pantapalem, Muthukur Mandal SPSR Nellore Dist

> GRAMAPANCHAYAT! Narikellapalli, Muthukur Mandol

Thaminnapatnam Gram Panchayath Chillakur Mandal, SPSR Nellore Dist.

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భవబీయులు

SPSR N ...ure Dt.

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CIN: U45203AP1996PLC023529

Panchayat Secretary Frampanchayat, Muthuku:

Muthukur Md., SPSR NeWore Dist