

MIDPL/TNPCB/GMP/EC-HYC

Date:24-05-2019

Additional Principal Chief Conservator of Forests (C),
Ministry of Environment, Forest and Climate Change, Regional Office (South Eastern Zone),
1st and 11nd Floor, Handloom Export Promotion Council,
34, Cathedral Garden Road, Nungambakkam,
Chennai – 600 034

Dear Sir,

Sub : Half yearly Compliance report of Environment and CRZ Clearance for the development of proposed Port at Kattupalli, Tiruvallur District of Tamil Nadu by M/s Marine Infrastructure Developer Pvt. Limited for the period of October 2018 – March 2019 – Reg.

Ref : CRZ & Environmental Clearance for the development of proposed Port at Katupalli, Tiruvallur District of Tamilnadu by M/s Marine Infrastructure Developer Pvt. Limited – bifurcation of EC&CRZ Clearance vide F. No 10-130/2007 – IA.III dtd . 9th February 2018

With reference to the captioned subject and cited reference above; please find enclosed herewith the Half yearly compliance report to the conditions stipulated in the cited reference for the Half Yearly period of **October 2018 to March 2019** in soft copy for your kind reference.

Thank you,

For, M/s. Marine Infrastructure Developer Ltd



Authorized Signatory.

Encl: As above

Copy to:


- 1) The Director (Monitoring –IA-III Division), Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi – 110003
- 2) Zonal Office, Central Pollution Control Board, A-Block, Nisarga Bhavan, 1st and 2nd Floors, 7th D Cross, Thimmaiah Road, Shivanagar, Bengaluru, Karnataka 5600879
- 3) The Member Secretary, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai - 600 032
- 4) The District Environmental Engineer, Tamil Nadu Pollution Control Board, EPIB Building, A.O Block, Gummipoondi Industrial Complex, Gummipoondi – 601201.
- 5) Member Secretary TNCZMA & Director – Dept of Environment, No.1, Jeenis Road, Panagal Building, Ground Floore, Saidapet, Chennai -600 015

Marine Infrastructure Developer Pvt Ltd
(Kattupalli Port)
Kattupalli Village, Ponneri Taluk,
Tiruvalluvar District 600 120,
Tamil Nadu, India


Tel +91 44 2824 3062


CIN: U74999TN2016PTC103769




	Marine Infrastructure Developer Pvt Ltd	From : October 2018 To : March 2019
Status of Conditions Stipulated in Environmental and CRZ Clearance File no: 10-130/2007- A.III dated: 09/02/2018		


Half yearly Compliance report on conditions stipulated in Environmental & CRZ Clearance (Period: October 2018 to March 2019)		
S. No.	Conditions	Compliance Status as on 31.03.2019
Specific Conditions		
(i)	The proponent shall comply all the conditions stipulated in the letter R.C.No. P1/2004/2008, dated 21.10.2008 of the Department of Environment, Chennai.	Complied. Compliance to letter R.C.No. P1/2004/2008, dated 21.10.2008, is enclosed as Annexure -I
(ii)	The proponent shall comply all the commitment made vide his letter No. D/Shipyard/00/07 dated 20.03.2009.	Complied This EC is just a bifurcation of original EC of LTSB in name of MIDPL & LTSB. All applicable commitments, wrt letter No. D/Shipyard/00/07 dated 20.03.2009 like provision of fire station, independent port connectivity, and no reclamation on areas outside port, non-usage of Tri Butyl Tin [TBT] and treatment of waste water in STP and recycling, disposal of hazardous waste to authorised recyclers are being complied.
(iii)	Provision shall be made for the housing of Construction labour within the site with all necessary infrastructure and facilities such as fuel or 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.	Complied. Most of the construction labours are from nearby villages. Construction activities are being carried out in daytime and worker leave the site on daily basis.
(iv)	There shall be no withdrawal of groundwater in Coastal Regulation Zone area, for this project. In any case any ground water is proposed to be withdrawn from outside the CRZ area, specific prior permission from the concerned State /Central Groundwater board shall be obtained in this regard.	Complied. No groundwater is withdrawal from CRZ Area. Presently unit is procuring water from M/s. Chennai Metropolitan Water Supply and Sewerage Board, Chennai. In case of Groundwater withdrawal outside CRZ Area prior permission will be obtained for from State/Central Groundwater Board
(v)	No dumping of dredging materials in the sea shall be undertaken. In case of sea dumping required, an integrated Modelling study to be carried out to locate the dump site so that it does not cause any problem to Ennore port.	Complied. No dumping of dredging material was carried out during the period October-18 to Mar'19. Dredge material dumping location has already been identified by LTSB through modelling studies.

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Half yearly Compliance report on conditions stipulated in Environmental & CRZ Clearance (Period: October 2018 to March 2019)		
S. No.	Conditions	Compliance Status as on 31.03.2019
(vi)	Shoreline changes due the project shall be monitored continuously nourishment of northern shoreline shall be carried out using the sediments from beach acceleration on the southern shoreline.	Being Complied MIDPL has engaged Institute of Ocean Management, Anna University, Chennai for shoreline Change study which is ongoing. Reports of the same are expected in another 3 months and same will be submitted as part of compliance.
(vii)	Suitable Screens shall be installed between the construction area and the intakes so that operations of the intakes are not affected by the construction activity.	Complied Presently marine side construction is being carried out within basin area, which is sheltered by northern break water. No impact envisaged.
(viii)	At least a distance of 100 meter shall be provided between intake of Chennai Water Desalination Ltd. (CWDL) and north edge of the northern breakwater as agreed in the meeting between the proponent and CWDL	Complied Distance maintained as agreed.
(ix)	Independent port connectivity shall be developed.	Complied An independent port connectivity was developed
(x)	Rehabilitation if any shall be carried out as per law / State Government.	Complied Rehabilitation was carried out completely as per law / State Government at the time of project implementation.
(xi)	Fire station shall be located within the project area	Complied MIDPL is having dedicated fire station with fire tender and fire crew. <div data-bbox="826 1518 1396 1657">  </div>
(xii)	The Hazardous waste generated shall be properly collected and handled as per the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.	Complied. Hazardous wastes generated are properly collected and handled inline to Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 as amended. Details of the same are submitted to TNPCCB as a part of Hazardous waste annual return (Form 4) on regular basis. Annual return FY 2017-18 is attached as Annexure – 2.

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Half yearly Compliance report on conditions stipulated in Environmental & CRZ Clearance (Period: October 2018 to March 2019)		
S. No.	Conditions	Compliance Status as on 31.03.2019
(xiii)	The waste water generated from the activity shall be collected, treated and reused properly.	Complied Domestic waste water generated from the activity is being collected, treated in STP and treated water is reused for green belt.
(xiv)	Sewage Treatment Facility should be provided in accordance with the CRZ Notification.	Complied STP provided in accordance with the CRZ notification.
(xv)	No Solid Waste will be disposed of in the Coastal Regulatory Zone area. The Solid Waste shall be properly collected segregated and disposed as per the provision of Solid Waste Management Rules, 2016.	Complied No solid waste is being disposed of in the CRZ area. All the solid waste generated is properly collected, source segregation of all types of Solid Waste is practised and are disposed as per the provision of Solid Waste Management Rules 2016, as amended, APSEZ has developed a vision for making itself – “A Zero Waste Port” by the year 2020. MIDPL vision is based on adoption of 5R principle of waste management i.e Reduce, Reuse, Reprocess, Recycle & Recover. All waste is being handled inline to 5R principle. Construction of Integrated Waste Management Shed (IWMS) is nearing completion.
(xvi)	Installation and operation of DG set if any shall comply with the guidelines of CPCB.	Complied 02 no of DG set with 2000 kVA capacity is installed inline to CPCB guideline. Flue gas analysis report of the DG Set stack for the period Oct-2018 to Mar-2019 is attached as Annexure 3
(xvii)	Air quality including the VOC shall be monitored regularly as per the guidelines of CPCB and reported.	Complied Ambient Air Quality Monitoring is being carried out by NABL accredited agency, Air Quality monitoring Reports for the period October 2018 – March 2019 is enclosed as Annexure-3 . All the parameters are well with the prescribed standards. Online BTX analyser to monitor VOC is being commissioned as part of Continuous Ambient Air Quality Monitoring (CAAQM) Station.

 Ports and Logistics	Marine Infrastructure Developer Pvt Ltd	From : October 2018 To : March 2019
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Half yearly Compliance report on conditions stipulated in Environmental & CRZ Clearance (Period: October 2018 to March 2019)		
S. No.	Conditions	Compliance Status as on 31.03.2019
(xviii)	The project proponent shall undertake green belt development all along the periphery of the project area and also alongside the road.	<p>Complied</p> <p>Adequate greenbelt are developed and maintained. 978 Nos. of trees planted during Oct'18 to Mar'19 and proposed to plant another 3000 Nos FY 2019-20.</p> 

	Marine Infrastructure Developer Pvt Ltd	From : October 2018 To : March 2019
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Half yearly Compliance report on conditions stipulated in Environmental & CRZ Clearance (Period: October 2018 to March 2019)		
S. No.	Conditions	Compliance Status as on 31.03.2019
(xix)	All necessary clearances from the concerned agencies shall be obtained before initiating the project.	Complied All the necessary clearances from the concerned agencies have been obtained.
(xx)	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 All necessary precaution has been taken to avoid any kind of spillages. Oil spill contingency plan along with list of available oil spill equipment submitted vide our Letter No. MIDPL/TNPCB/GMP/EC-HYC dated 14.05.2018.
(xxi)	No hazardous chemicals shall be stored in the Coastal Regulation Zone area.	Noted for Compliance. No hazardous chemical is stored in CRZ Area.
(xxii)	The project shall not be commissioned till the requisite water supply and electricity to the project are provided by the PWD/ Electricity Department.	Complied Requisite permission for Water Supply and Electricity has been obtained from Chennai Metropolitan Water Supply and Sewerage Board (CMWSSB) and Tamil Nadu Electricity Board respectively before commissioning
(xxiii)	Specific arrangements for rainwater harvesting shall be made in the project design and the rain water so harvested shall be optimally utilized.	Being Complied Water table is observed to be high in and around the Port area Feasibility of rainwater harvesting will be studies and explored.
(xxiv)	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, 2011 and its amendment. The facilities such as office building and residential buildings which do not require water front and foreshore facilities shall not be constructed within the Coastal Regulation Zone area.	Complied. All construction has been done inline to CRZ Notification, 2011 & EC&CRZ clearance obtained.
General Conditions:		
(i)	Construction of the proposed structures shall be undertaken meticulously conforming to the existing Central/local rules and	Complied All construction has been done inline to CRZ Notification , 2011 & EC&CRZ clearance obtained

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S. No.	Conditions	Compliance Status as on 31.03.2019
	regulations including Coastal Regulation Zone Notification 1991 & its amendments. All the construction designs /drawings relating to the proposed construction activities must have approvals of the concerned State Government Departments /Agencies.	
(ii)	Adequate provisions for infrastructure facilities such as water supply, fuel, sanitation etc. shall be ensured for construction workers during the construction phase of the project so as to avoid felling of trees/mangroves and pollution of water and the surroundings.	Complied Most of the construction labours are from nearby villages. Construction activities are being carried out in daytime and worker leave the site on daily basis.
(iii)	The project authorities shall make necessary arrangements for disposal of solid wastes and for the treatment of effluents by providing a proper wastewater treatment plant outside the CRZ area. The quality of treated effluents, solid wastes and noise level etc. must conform to the standards laid down by the competent authorities including the Central/State Pollution Control Board and the Union Ministry of Environment and Forests under the Environment (Protection) Act, 1986, whichever are more stringent.	Complied Disposal of solid waste & STP unit is provided in accordance with the CRZ notification. Environment Monitoring is being carried out by NABL accredited agency, Reports for the period Oct-2018 to Mar-2019 are enclosed as Annexure -3 All the monitoring results are well within the prescribed standard.
(iv)	The proponent shall obtain the requisite consents for discharge of effluents and emissions under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (prevention and Control of Pollution) Act, 1981 from the Tamil Nadu State Pollution Control Board before commissioning of the	Complied. Requisite Consents for discharge of effluents and emissions under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (prevention and Control of Pollution) Act, 1981 were obtained before commissioning of the project and

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Half yearly Compliance report on conditions stipulated in Environmental & CRZ Clearance (Period: October 2018 to March 2019)		
S. No.	Conditions	Compliance Status as on 31.03.2019
	project and a copy of each of these shall be sent to this Ministry.	submitted to Ministry. Project is in operation phase and CTO has been obtained from the Tamil Nadu State Pollution Control Board vide Consent Order No. 1808115430679 & 1808215430679 dated 17/09/2018. Copy of the CTO, is enclosed as Annexure - 4 Application for CTO Renewal has been submitted to TNPCB in Online Consent Management and Monitoring System (OCMMS) vide Application No. 21257901 and Renewal of CTO Orders are under scrutiny with TNPCB.
(v)	In order to carry out the environmental monitoring during the operational phase of the project, the project authorities shall establish an environmental laboratory well equipped with standard equipment and facilities and qualified manpower to carry out the testing of various environmental parameters.	Complied MIDPL is having Environmental Management Cell, staffed with qualified personnel at site supported by team at Head Office in Ahmedabad. Environment monitoring is being carried out by NABL accredited agency.
(vi)	The proponents shall 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.	Complied. Domestic Waste water is being treated in STP and inlet and outlet characteristic of water is regularly analysed by NABL accredited laboratory, the monitoring results for the period Oct-2018 to Mar-2019 is enclosed as Annexure - 3 . All the results are found well within the prescribed standard. Records are made available at site for inspection of State / Central officials during their visit.
(vii)	The sand dunes and mangroves, if any, on the site shall not be disturbed in any way.	Complied No Sand dune and mangroves are present on the site.
(viii)	A copy of the clearance letter will be marked to the concerned Panchayat / local NGO, if any, from whom any	Complied This EC is just a bifurcation of original EC of LTSB.

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S. No.	Conditions	Compliance Status as on 31.03.2019
	suggestion / representation has been received while processing the proposal.	
(ix)	The Tamil Nadu Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's Office/Tehsildars Office for 30 days.	Complied The condition does not pertain to project proponent
(x)	The funds earmarked for environment protection measures shall be maintained, in a separate account and there shall be no diversion of these funds for any other purpose. A year-wise expenditure on Environmental safeguards shall be reported to this ministry	Complied. Separate budget for the Environment Protection is earmarked every year. All the expenses are recorded in advanced accounting system of the organization. Expenditure for Environment Management measures during Oct'18 to Mar'19 is Rs.21.21 Lakhs and for the FY 2018-19 is around Rs.39.21 lakhs. The breakup details are as follows; (i) Comprehensive Environmental Monitoring – Rs. 10.25 Lakhs (ii) Statutory Monitoring – Rs 1.0 Lakhs (iii) Hazardous Waste Management – Rs. 1.86 Lakhs (iv) Environmental Studies – Rs. 26.1 Lakhs In addition, Annual Maintenance Cost for STP's is Rs.10 Lakhs, House Keeping is Rs.36 Lakhs , Green belt maintenance is Rs.20 Lakhs, total amounting to Rs. 66 Lakhs FY 2018-19. Budget Proposed for Environment Management FY 2019-20 is Rs.72.75 Lakhs, excluding AMC for STP, Greenbelt and Housekeeping.
(xi)	Full support shall be extended to the officers (this Ministry's Regional Office at Chennai and the officers of the Central and State Pollution Control Boards by the project proponents during their inspection for monitoring purposes, by	Noted for Compliance. Full support will be extended to the officers of RO-MoEF&CC Chennai, CPCB & SPCB. During the compliance period monthly visit was made by TNPCC Officials to monitor the compliance and all the necessary support were extended.

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Half yearly Compliance report on conditions stipulated in Environmental & CRZ Clearance (Period: October 2018 to March 2019)		
S. No.	Conditions	Compliance Status as on 31.03.2019
	furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.	
(xii)	In case of deviation or alteration in the project including the implementing agency, a fresh reference shall be made to this ministry for modification in the clearance conditions or imposition of new ones for ensuring environmental protection.	Noted for Compliance There is no deviation or alteration in the project including implementing agency.
(xiii)	This 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 for Compliance.
(xiv)	This Ministry or any other competent authority may stipulate any other additional conditions subsequently, if deemed necessary, for environmental protection, which shall be complied with.	Noted for Compliance.
(xv)	The Project proponents shall inform the Regional Office at Chennai 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 The same has been Complied by LTSB before bifurcation itself.
EC & CRZ Amendment letter No. 10-130/2007- A.III dated 12.05.2010:		
(i)	The details of combined effect on both the Ports (i.e. Ennore Port and Kattupalli Port) shall be carried out to monitor the impact of the post-dumping. This model study shall be carried out for a period of one year.	Complied M/s LTSB has already carried out detailed modelling study to understand impact of post dumping and report was submitted to Ministry. No dumping was being carried by MIDPL during the period Oct-2018 to Mar-2019 MIDPL engaged Institute of Ocean Management, Anna University to carry out shoreline studies of the concerned area which is ongoing. Reports of the same are expected in another 3 months and same will be submitted as part of


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Half yearly Compliance report on conditions stipulated in Environmental & CRZ Clearance (Period: October 2018 to March 2019)


S. No.	Conditions	Compliance Status as on 31.03.2019
		compliance.
(ii)	A comparison between model study and actual dumping shall be carried out to examine the impacts both on North-East and South-West of the Ports and shall be submitted to the Ministry,	Complied Comparison between model study and actual dumping was made to examine the impacts and report was submitted to Ministry by LTSCB. No dumping was being carried by MIDPL during the period Oct-2018 to Mar-2019 MIDPL engaged Institute of Ocean Management, Anna University for further studies which is ongoing. Reports of the same are expected in another 3 months and same will be submitted as part of compliance.
(iii)	No reclamation of the areas outside the Port limit and Buckingham Canal shall be carried out.	Being Complied No reclamation of the areas outside Port Limit and Buckingham Canal is being carried out.

EC & CRZ Extension of validity letter No. 10-130/2007- XIII dated 17.12.2014:


(i)	The cargo should only include				Being Complied.
	S N	Description	Quantity	Unit	
	1	Containers	1.8	Million TEU/Ann um (21.60 MTPA)	
	2	Ro-Ro (Nos) (Automobiles)	149899	Nos/Ann um (0.22 MTPA)	
	3	Project Cargo	440000	MT/Annu m (0.44 MTPA)	
4	Breakbulk/Ge neral Cargo (Barytes/ Gypsum/ Limestones/ Granite/ Steel Cargo)	1820000	MT/Annu m/1.82 MTPA)		
(ii)	(All the conditions stipulated by the Tamil Nadu Coastal Zone Management Authority (TNCZMA) vide letter no. 6064/EC.3/2014-1 dated 26.06.2014, shall be strictly complied with.				Complied Compliance to Tamil Nadu Coastal Zone Management Authority (TNCZMA) vide letter no. 6064/EC.3/2014-1 dated 26.06.2014, enclosed as Annexure -5
(iii)	No additional land should be utilized for the proposed development.				Complied
(iv)	As committed, the local traffic should not be disturbed.				Complied Separate road available for local traffic.

	Marine Infrastructure Developer Pvt Ltd	From : October 2018 To : March 2019
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Half yearly Compliance report on conditions stipulated in Environmental & CRZ Clearance (Period: October 2018 to March 2019)		
S. No.	Conditions	Compliance Status as on 31.03.2019
5	<p>These stipulations would be enforced among other 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, the Hazardous Chemical (Manufacture, storage and Import) Rules, 1989, Solid Waste Management Rules, 2016 and the Coastal Regulation Zone Notification, 2011 and its subsequent amendments made there under from time to time.</p>	<p>Noted for Compliance.</p>
6	<p>All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act 1972, etc shall be Obtained, as applicable by project proponents from the respective competent authorities.</p>	<p>Complied. All the statutory approvals as applicable have been obtained. Clearance from Chief Controller of Explosives, Fire Department, Civil Aviation Department has been obtained</p>
7	<p>The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the Tamil Nadu Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at http://envfonnic.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</p>	<p>Complied. Copy of Newspaper Advertisement attached as Annexure – 7.</p>

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Half yearly Compliance report on conditions stipulated in Environmental & CRZ Clearance (Period: October 2018 to March 2019)		
S. No.	Conditions	Compliance Status as on 31.03.2019
	this Ministry at Chennai.	
8	Any appeal against this Environmental Clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30 day as prescribed under section 11 of the National Environment Appellate Act, 1997.	Noted.
9	Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.	Being complied. Six monthly Compliance Report of CRZ & EC Clearance is uploaded on company website regularly (https://www.adaniports.com/ports-downloads)
10	This Environmental and CRZ Clearance is valid till 2 nd July, 2019.	Noted.
11	This issue with the approval of the Competent Authority.	Noted.

	Marine Infrastructure Developer Pvt Ltd	From : October 2018 To : March 2019
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Enclosures:

Annexure Number	Details of Annexure
Annexure I:	Compliance to RC No. P1/2004/2008, dated 21.10.2008 of Department of Environment, Chennai
Annexure II:	Annual Hazardous Returns – Form IV
Annexure III:	Environmental Monitoring reports for the period Oct'18 to Mar'19
Annexure IV:	TNPCB's Renewal CTO orders FY 2018-19 under Air & Water Acts
Annexure V:	Compliance to Tamil Nadu Coastal Zone Management Authority (TNCZMA) vide letter no. 6064/EC.3/2014-1 dated 26.06.2014
Annexure VI:	Mock Drills carried out during Oct'18 to Mar'19
Annexure VII:	News Paper advertisement regarding MIDPL Environmental Clearance.

Compliance to RC No. P1/2004/2008, dated 21.10.2008 of Department of Environment, Chennai

Sl. No	Conditions	Compliance
i	The unit shall carry out dumping/ land filling at dredged material only on land which is not covered under CRZ	Noted for Compliance
ii	The unit shall not carry out any ship breaking activity	Not applicable
iii	The unit should design that the waste water should be recycled 100% and to be used for developing greenery etc., and there should not be any waste water let out.	Complied Domestic waste water generated is being treated in STP. Treated water is being reused for Horticulture / green belt purpose
iv	The unit should tie - up with institutions like Centre for Environmental Studies or IIT for the periodical monitoring during construction phase so as to ensure the adoption of Safety measures as per the Environmental Management Plan [EMP].	Complied. LTSB carried out the studies during Construction Phase.
v	Before commencing construction activities, Proper resettlement for the local the unit should ensure the proper resettlement of local inhabitants residing at the project area to the satisfaction of District Collector and submit a report to the Department of Environment.	Not applicable. This EC is just a bifurcation of original EC of LTSB. Rehabilitation & resettlement was carried out completely as per law / State Government at the time of project implementation.
General Conditions		
a	There should not be any extraction of Ground Water in CRZ.	Noted for compliance. Presently unit is procuring desalinated water from M/s. Chennai Metropolitan Water Supply and Sewerage Board, Chennai.
b	The unit should obtain planning permission for their constructions from the CMDA/Department of Environment before commencing the constructions	Not applicable. This EC is bifurcation of original EC of LTSB. Required permission from concerned authorities was taken before commencing the constructions.
c	The proposed activities should not cause coastal erosion and alter the beach configuration	Complied. MIDPL is monitoring shoreline studies through Institute of Ocean Management, Anna University, Chennai.

d	No fencing or barricading along the pipeline alignment and parallel to the coast is permissible in CRZ.	Agreed for compliance. All activities permissible as per CRZ notification 2011 & EC&CRZ clearance will only be carried out.
e	No blasting or drilling activities in CRZ is permissible.	Agreed for compliance. All activities permissible as per CRZ notification 2011 & EC&CRZ clearance will only be carried out.
f	The proponent should not prevent public from easy access to the beach.	Being complied. MIDPL will not block the access point to beach for the public.
g	Chemical waste generated and the sewage generated, if any should not be discharged in to the sea.	Complied. No chemical waste generated. Sewage waste water generated is being treated in STP for further usage in horticulture / greenbelt
h	The proponent should implement the EMP including the Green Belt as envisaged in the EIA report.	Complied. Adequate Greenbelt is being developed and maintained..
i	The project activity should not affect the coastal ecosystem including marine flora and fauna.	Complied Marine water & Sediment quality are being monitored by NABL accredited laboratory on monthly basis. There is no e impact on water quality in the vicinity. The details of Marine Water quality monitoring report for the period October 2018 to March 2019 is enclosed as Annexure-3.
j	The proponent should not undertake any activity, which is violate of provisions of CRZ Notification 1991 and the subsequent amendments.	Being complied. All activities permissible as per CRZ notification 2011 & EC&CRZ clearance will only be carried out.
k	The CRZ Clearance will be revoked if any of the conditions stipulated in not complied with.	Noted for compliance

Annexure-2

Marine Infrastructure Developer Private Limited

REGISTERED OFFICE: NO:22, L&T CONSTRUCTION COMPLEX, MOUNT POONAMALLEE ROAD,
MANAPAKKAM, CHENNAI – 600089, TAMIL NADU, INDIA
CIN : U74999TN2016PTC103769 Telephone : 044-2252 6000

MIDPL/TNPCB/GMB/HWR-201806

Date: 28/06/2018

To,

The District Environmental Engineer,

Tamil Nadu Pollution Control Board,

EPIB Building, A.O Block,

Gummidipoondi Industrial Complex,

Gummidipoondi – 601201.

Dear Sir,

Sub: Submission of Annual Hazardous Waste Returns for the year 2017-18

Ref:

1. Hazardous Wastes (Management, Handling & Transboundary Movement) authorization no.4380 Dated 06.12.2013 issued to L&T Shipbuilding (Shipyards cum Minor Port)
2. CRZ & Environmental Clearance for the development of proposed Port at Katupalli, Tiruvallur District of Tamilnadu by M/s Marine Infrastructure Developer Pvt. Limited – bifurcation of EC&CRZ Clearance vide F. No 10-130/2007 – IA.III dtd . 9th February 2018
3. TNPCB's Consent Order No.170629762139 & 170619762139 under Air & Water Acts dated 26/12/17

With reference to captioned subject, **M/s. Marine Infrastructure Developer Private Limited** is submitting the Annual Hazardous Waste Returns in Form IV for the year 2017-18.

We wish to inform that our application for name change from L&T Ship Building to M/s Marine Infrastructure Developer Pvt Ltd for Hazardous waste Authorization is in progress.

Submitted for your kind records.

Kindly acknowledge us the receipt of the same,

For, **M/s. Marine Infrastructure Developer Private Limited**

Authorized Signatory

Encl: As Above



FORM 4*[See rules 6(5), 13(8), 16(6) and 20 (2)]***FORM FOR FILING ANNUAL RETURNS**

[To be submitted to State Pollution Control Board by 30th day of June of every year for the proceeding period April to March]

1	Name and address of facility:	Marine Infrastructure Developer Private Limited Kattupalli Village, Ponneri Taluk , Thiruvallur - 600120
2	Authorisation No. and Date of issue:	No.4380 Dated 06.12.2013
3	Name of the authorised person and full address with telephone, fax number and e-mail:	Capt.Jeyaraj Thamburaj Chief Executive Officer Kattupalli Village, Ponneri Taluk , Thiruvallur - 600120 044 - 2796 9107 Jeyaraj.thamburaj@adani.com
4	Production during the year (product wise), wherever applicable	NA

Part A. To be filled by hazardous waste generators**FY 2017-2018**

1	Total quantity of waste generated category wise	Used oil	Waste containing oil	Oil contaminated filter element
	Category	5.1	5.2	5.2
	Quantity	10000L	100Kg	225 Kgs
2	Quantity dispatched	Used oil	Waste containing oil	Oil contaminated filter element
	(i) to disposal facility	13020 L	NIL	1115 Kgs
	(ii) to recycler or co-processors or pre-processor			
	(iii) others			
3	Quantity utilised in-house, if any -	Used oil: NIL Waste containing oil: NIL Oil contaminated filter element: NIL		
4	Quantity in storage at the end of the year -	Used oil: 990 L Waste containing oil: 100Kg Oil contaminated filter element: NIL		

Part B. To be filled by Treatment, Storage and Disposal Facility operators

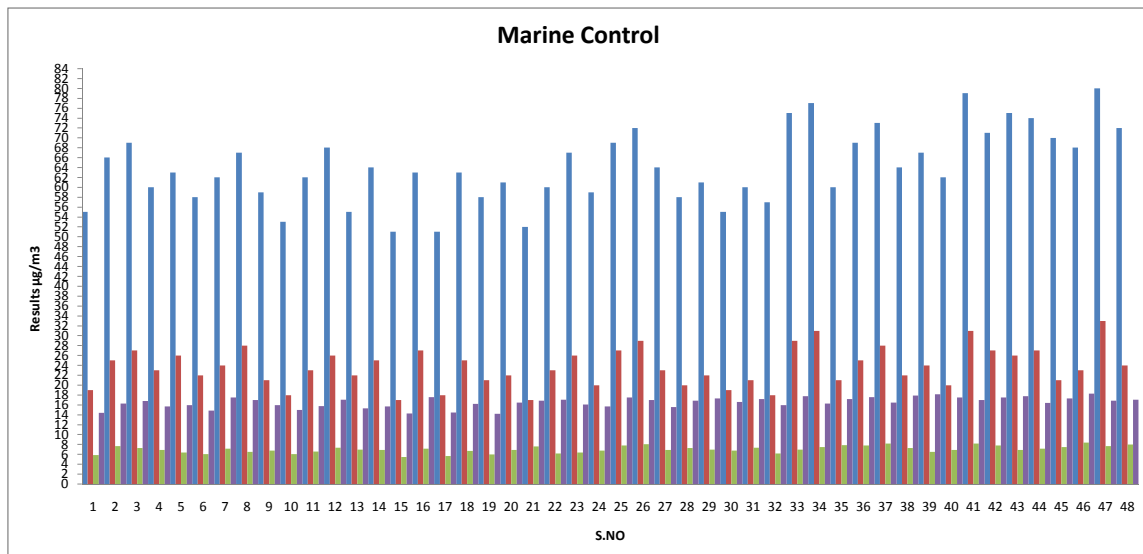
1	Total quantity received -	N/A
2	Quantity in stock at the beginning of the year -	
3	Quantity treated -	
4	Quantity disposed in landfills as such and after treatment -	
5	Quantity incinerated (if applicable) -	
6	Quantity processed other than specified	

Annexure-3

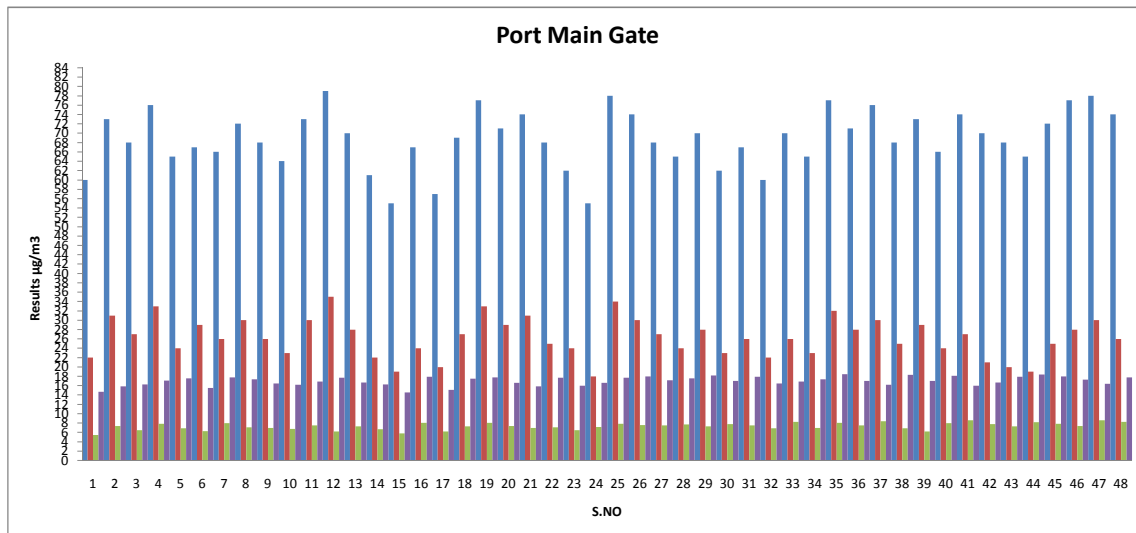
MARINE INFRASTRUCTURE DEVELOPER PRIVATE LIMITED (MIDPL)

Oct - 18 to Mar - 19

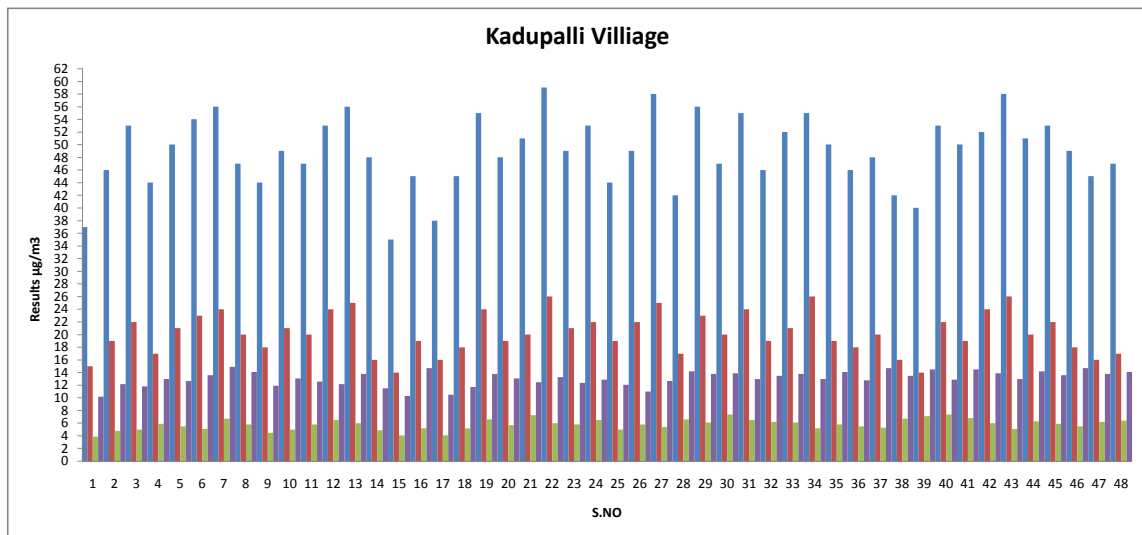
MARINE CONTROL (AAQ1)														
Parameters			Particular matter PM ₁₀	Particular matter PM _{2.5}	Sulphur dioxide as SO ₂	Nitrogen dioxide as NO ₂	Lead as Pb	Carbon monoxide as CO	Ozone as O ₃	Ammonia as NH ₃	Arsenic as As	Nickel as Ni	Benzene as C ₆ H ₆	Benzo (a) pyrene as BaP
Unit			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	µg/m ³	ng/m ³
National AAQM Standard			100	60	80	80	1	4	180	400	6	20	5	1
S.No.	Sampling Date	Report Number												
1	06.10.2018	GCS/LAB/S/1164/18-19	55	19	5.9	14.4	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
2	08.10.2018	GCS/LAB/S/1164/18-19	66	25	7.7	16.3	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
3	12.10.2018	GCS/LAB/S/1164/18-19	69	27	7.3	16.8	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
4	15.10.2018	GCS/LAB/S/1164/18-19	60	23	6.9	15.7	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
5	19.10.2018	GCS/LAB/S/1164/18-19	63	26	6.4	16.0	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
6	22.10.2018	GCS/LAB/S/1164/18-19	58	22	6.1	14.9	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
7	26.10.2018	GCS/LAB/S/1164/18-19	62	24	7.2	17.5	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
8	29.10.2018	GCS/LAB/S/1164/18-19	67	28	6.5	17.0	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
9	02.11.2018	GCS/LAB/S/1216/18-19	59	21	6.8	16.0	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
10	07.11.2018	GCS/LAB/S/1216/18-19	53	18	6.1	15.0	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
11	09.11.2018	GCS/LAB/S/1216/18-19	62	23	6.6	15.8	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
12	12.11.2018	GCS/LAB/S/1216/18-19	68	26	7.4	17.1	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
13	16.11.2018	GCS/LAB/S/1216/18-19	55	22	7.0	15.3	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
14	19.11.2018	GCS/LAB/S/1216/18-19	64	25	6.9	15.7	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
15	23.11.2018	GCS/LAB/S/1216/18-19	51	17	5.5	14.3	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
16	26.11.2018	GCS/LAB/S/1216/18-19	63	27	7.2	17.6	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
17	03.12.2018	GCS/LAB/S/1296/18-19	51	18	5.7	14.5	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
18	07.12.2018	GCS/LAB/S/1296/18-19	63	25	6.7	16.2	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
19	10.12.2018	GCS/LAB/S/1296/18-19	58	21	6.0	14.2	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
20	14.12.2018	GCS/LAB/S/1296/18-19	61	22	6.9	16.5	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
21	17.12.2018	GCS/LAB/S/1296/18-19	52	17	7.6	16.9	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
22	21.12.2018	GCS/LAB/S/1296/18-19	60	23	6.2	17.1	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
23	24.12.2018	GCS/LAB/S/1296/18-19	67	26	6.4	16.1	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
24	26.12.2018	GCS/LAB/S/1296/18-19	59	20	6.8	15.7	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
25	02.01.2019	GCS/LAB/S/1359/18-19	69	27	7.8	17.5	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
26	04.01.2019	GCS/LAB/S/1359/18-19	72	29	8.1	17.0	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
27	07.01.2019	GCS/LAB/S/1359/18-19	64	23	6.9	15.6	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
28	11.01.2019	GCS/LAB/S/1359/18-19	58	20	7.3	16.9	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
29	16.01.2019	GCS/LAB/S/1359/18-19	61	22	7.0	17.3	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
30	18.01.2019	GCS/LAB/S/1359/18-19	55	19	6.8	16.6	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
31	21.01.2019	GCS/LAB/S/1359/18-19	60	21	7.4	17.2	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
32	24.01.2019	GCS/LAB/S/1359/18-19	57	18	6.2	16.0	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
33	01.02.2019	GCS/LAB/S/1445/18-19	75	29	7.0	17.8	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
34	04.02.2019	GCS/LAB/S/1445/18-19	77	31	7.5	16.3	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
35	08.02.2019	GCS/LAB/S/1445/18-19	60	21	7.9	17.2	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
36	11.02.2019	GCS/LAB/S/1445/18-19	69	25	7.8	17.6	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
37	15.02.2019	GCS/LAB/S/1445/18-19	73	28	8.2	16.5	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
38	18.02.2019	GCS/LAB/S/1445/18-19	64	22	7.3	17.9	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
39	22.02.2019	GCS/LAB/S/1445/18-19	67	24	6.5	18.2	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
40	25.02.2019	GCS/LAB/S/1445/18-19	62	20	6.9	17.5	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
41	01.03.2019	GCS/LAB/S/1516/18-19	79	31	8.2	17.0	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
42	04.03.2019	GCS/LAB/S/1516/18-19	71	27	7.8	17.5	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
43	08.03.2019	GCS/LAB/S/1516/18-19	75	26	6.9	17.8	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
44	11.03.2019	GCS/LAB/S/1516/18-19	74	27	7.2	16.4	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
45	15.03.2019	GCS/LAB/S/1516/18-19	70	21	7.5	17.3	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
46	18.03.2019	GCS/LAB/S/1516/18-19	68	23	8.4	18.3	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
47	22.03.2019	GCS/LAB/S/1516/18-19	80	33	7.7	16.9	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
48	25.03.2019	GCS/LAB/S/1516/18-19	72	24	8.0	17.1	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1



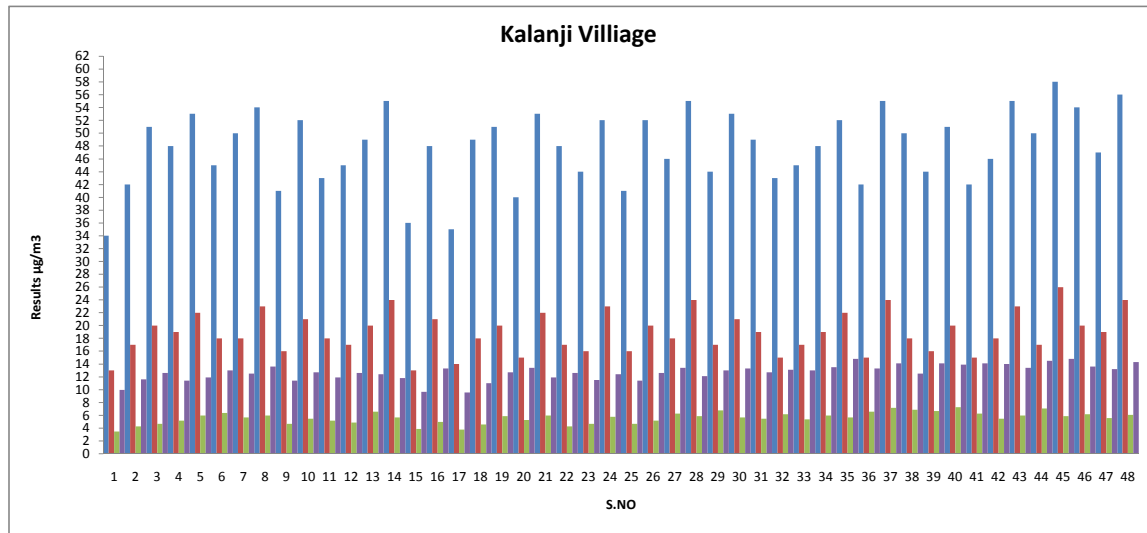
PORT MAIN GATE (AAQ2)													
Parameters		Particular matter PM ₁₀	Particular matter PM _{2.5}	Sulphur dioxide as SO ₂	Nitrogen dioxide as NO ₂	Lead as Pb	Carbon monoxide as CO	Ozone as O ₃	Ammonia as NH ₃	Arsenic as As	Nickel as Ni	Benzene as C ₆ H ₆	Benzo (a) pyrene as BaP
Unit		µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	µg/m ³	ng/m ³
National AAQM Standard		100	60	80	80	1	4	180	400	6	20	5	1
S.No.	Sampling Date	Report Number											
1	06.10.2018	GCS/LAB/S/1164/18-19	60	22	5.5	14.7	<0.1	<1.0	<2	<2	<2	<1	<0.1
2	08.10.2018	GCS/LAB/S/1164/18-19	73	31	7.4	15.9	<0.1	<1.0	<2	<2	<2	<1	<0.1
3	12.10.2018	GCS/LAB/S/1164/18-19	68	27	6.5	16.3	<0.1	<1.0	<2	<2	<2	<1	<0.1
4	15.10.2018	GCS/LAB/S/1164/18-19	76	33	7.9	17.1	<0.1	<1.0	<2	<2	<2	<1	<0.1
5	19.10.2018	GCS/LAB/S/1164/18-19	65	24	6.9	17.6	<0.1	<1.0	<2	<2	<2	<1	<0.1
6	22.10.2018	GCS/LAB/S/1164/18-19	67	29	6.3	15.5	<0.1	<1.0	<2	<2	<2	<1	<0.1
7	26.10.2018	GCS/LAB/S/1164/18-19	66	26	8.0	17.8	<0.1	<1.0	<2	<2	<2	<1	<0.1
8	29.10.2018	GCS/LAB/S/1164/18-19	72	30	7.1	17.4	<0.1	<1.0	<2	<2	<2	<1	<0.1
9	02.11.2018	GCS/LAB/S/1216/18-19	68	26	7.0	16.5	<0.1	<1.0	<2	<2	<2	<1	<0.1
10	07.11.2018	GCS/LAB/S/1216/18-19	64	23	6.8	16.2	<0.1	<1.0	<2	<2	<2	<1	<0.1
11	09.11.2018	GCS/LAB/S/1216/18-19	73	30	7.5	16.9	<0.1	<1.0	<2	<2	<2	<1	<0.1
12	12.11.2018	GCS/LAB/S/1216/18-19	79	35	6.2	17.7	<0.1	<1.0	<2	<2	<2	<1	<0.1
13	16.11.2018	GCS/LAB/S/1216/18-19	70	28	7.3	16.7	<0.1	<1.0	<2	<2	<2	<1	<0.1
14	19.11.2018	GCS/LAB/S/1216/18-19	61	22	6.7	16.3	<0.1	<1.0	<2	<2	<2	<1	<0.1
15	23.11.2018	GCS/LAB/S/1216/18-19	55	19	5.8	14.6	<0.1	<1.0	<2	<2	<2	<1	<0.1
16	26.11.2018	GCS/LAB/S/1216/18-19	67	24	8.1	17.9	<0.1	<1.0	<2	<2	<2	<1	<0.1
17	03.12.2018	GCS/LAB/S/1296/18-19	57	20	6.2	15.1	<0.1	<1.0	<2	<2	<2	<1	<0.1
18	07.12.2018	GCS/LAB/S/1296/18-19	69	27	7.3	17.5	<0.1	<1.0	<2	<2	<2	<1	<0.1
19	10.12.2018	GCS/LAB/S/1296/18-19	77	33	8.1	17.8	<0.1	<1.0	<2	<2	<2	<1	<0.1
20	14.12.2018	GCS/LAB/S/1296/18-19	71	29	7.4	16.6	<0.1	<1.0	<2	<2	<2	<1	<0.1
21	17.12.2018	GCS/LAB/S/1296/18-19	74	31	7.0	15.9	<0.1	<1.0	<2	<2	<2	<1	<0.1
22	21.12.2018	GCS/LAB/S/1296/18-19	68	25	7.1	17.7	<0.1	<1.0	<2	<2	<2	<1	<0.1
23	24.12.2018	GCS/LAB/S/1296/18-19	62	24	6.5	16.0	<0.1	<1.0	<2	<2	<2	<1	<0.1
24	26.12.2018	GCS/LAB/S/1296/18-19	55	18	7.2	16.6	<0.1	<1.0	<2	<2	<2	<1	<0.1
25	02.01.2019	GCS/LAB/S/1359/18-19	78	34	7.9	17.7	<0.1	<1.0	<2	<2	<2	<1	<0.1
26	04.01.2019	GCS/LAB/S/1359/18-19	74	30	7.6	18.0	<0.1	<1.0	<2	<2	<2	<1	<0.1
27	07.01.2019	GCS/LAB/S/1359/18-19	68	27	7.5	17.2	<0.1	<1.0	<2	<2	<2	<1	<0.1
28	11.01.2019	GCS/LAB/S/1359/18-19	65	24	7.7	17.6	<0.1	<1.0	<2	<2	<2	<1	<0.1
29	16.01.2019	GCS/LAB/S/1359/18-19	70	28	7.3	18.2	<0.1	<1.0	<2	<2	<2	<1	<0.1
30	18.01.2019	GCS/LAB/S/1359/18-19	62	23	7.8	17.0	<0.1	<1.0	<2	<2	<2	<1	<0.1
31	21.01.2019	GCS/LAB/S/1359/18-19	67	26	7.5	17.9	<0.1	<1.0	<2	<2	<2	<1	<0.1
32	24.01.2019	GCS/LAB/S/1359/18-19	60	22	6.9	16.5	<0.1	<1.0	<2	<2	<2	<1	<0.1
33	01.02.2019	GCS/LAB/S/1445/18-19	70	26	8.3	16.9	<0.1	<1.0	<2	<2	<2	<1	<0.1
34	04.02.2019	GCS/LAB/S/1445/18-19	65	23	7.0	17.4	<0.1	<1.0	<2	<2	<2	<1	<0.1
35	08.02.2019	GCS/LAB/S/1445/18-19	77	32	8.1	18.5	<0.1	<1.0	<2	<2	<2	<1	<0.1
36	11.02.2019	GCS/LAB/S/1445/18-19	71	28	7.5	17.0	<0.1	<1.0	<2	<2	<2	<1	<0.1
37	15.02.2019	GCS/LAB/S/1445/18-19	76	30	8.4	16.2	<0.1	<1.0	<2	<2	<2	<1	<0.1
38	18.02.2019	GCS/LAB/S/1445/18-19	68	25	6.9	18.3	<0.1	<1.0	<2	<2	<2	<1	<0.1
39	22.02.2019	GCS/LAB/S/1445/18-19	73	29	6.2	17.0	<0.1	<1.0	<2	<2	<2	<1	<0.1
40	25.02.2019	GCS/LAB/S/1445/18-19	66	24	8.0	18.1	<0.1	<1.0	<2	<2	<2	<1	<0.1
41	01.03.2019	GCS/LAB/S/1516/18-19	74	27	8.6	16.0	<0.1	<1.0	<2	<2	<2	<1	<0.1
42	04.03.2019	GCS/LAB/S/1516/18-19	70	21	7.8	16.7	<0.1	<1.0	<2	<2	<2	<1	<0.1
43	08.03.2019	GCS/LAB/S/1516/18-19	68	20	7.3	17.9	<0.1	<1.0	<2	<2	<2	<1	<0.1
44	11.03.2019	GCS/LAB/S/1516/18-19	65	19	8.2	18.4	<0.1	<1.0	<2	<2	<2	<1	<0.1
45	15.03.2019	GCS/LAB/S/1516/18-19	72	25	7.9	18.0	<0.1	<1.0	<2	<2	<2	<1	<0.1
46	18.03.2019	GCS/LAB/S/1516/18-19	77	28	7.4	17.3	<0.1	<1.0	<2	<2	<2	<1	<0.1
47	22.03.2019	GCS/LAB/S/1516/18-19	78	30	8.6	16.4	<0.1	<1.0	<2	<2	<2	<1	<0.1
48	25.03.2019	GCS/LAB/S/1516/18-19	74	26	8.3	17.8	<0.1	<1.0	<2	<2	<2	<1	<0.1



KATTUPALLI VILLAGE (AAQ3)														
Parameters			Particular matter PM ₁₀	Particular matter PM _{2.5}	Sulphur dioxide as SO ₂	Nitrogen dioxide as NO ₂	Lead as Pb	Carbon monoxide as CO	Ozone as O ₃	Ammonia as NH ₃	Arsenic as As	Nickel as Ni	Benzene as C ₆ H ₆	Benzo (a) pyrene as BaP
Unit			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	µg/m ³	ng/m ³
National AAQM Standard			100	60	80	80	1	4	180	400	6	20	5	1
S.No.	Sampling Date	Report Number												
1	06.10.2018	GCS/LAB/S/1164/18-19	37	15	3.9	10.2	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
2	08.10.2018	GCS/LAB/S/1164/18-19	46	19	4.8	12.2	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
3	12.10.2018	GCS/LAB/S/1164/18-19	53	22	5.0	11.8	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
4	15.10.2018	GCS/LAB/S/1164/18-19	44	17	5.9	13.0	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
5	19.10.2018	GCS/LAB/S/1164/18-19	50	21	5.5	12.7	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
6	22.10.2018	GCS/LAB/S/1164/18-19	54	23	5.1	13.6	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
7	26.10.2018	GCS/LAB/S/1164/18-19	56	24	6.7	14.9	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
8	29.10.2018	GCS/LAB/S/1164/18-19	47	20	5.8	14.1	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
9	02.11.2018	GCS/LAB/S/1216/18-19	44	18	4.5	11.9	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
10	07.11.2018	GCS/LAB/S/1216/18-19	49	21	5.0	13.1	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
11	09.11.2018	GCS/LAB/S/1216/18-19	47	20	5.8	12.6	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
12	12.11.2018	GCS/LAB/S/1216/18-19	53	24	6.5	12.2	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
13	16.11.2018	GCS/LAB/S/1216/18-19	56	25	6.0	13.8	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
14	19.11.2018	GCS/LAB/S/1216/18-19	48	16	4.9	11.5	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
15	23.11.2018	GCS/LAB/S/1216/18-19	35	14	4.1	10.3	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
16	26.11.2018	GCS/LAB/S/1216/18-19	45	19	5.2	14.7	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
17	03.12.2018	GCS/LAB/S/1296/18-19	38	16	4.1	10.5	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
18	07.12.2018	GCS/LAB/S/1296/18-19	45	18	5.2	11.7	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
19	10.12.2018	GCS/LAB/S/1296/18-19	55	24	6.6	13.8	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
20	14.12.2018	GCS/LAB/S/1296/18-19	48	19	5.7	13.1	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
21	17.12.2018	GCS/LAB/S/1296/18-19	51	20	7.3	12.5	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
22	21.12.2018	GCS/LAB/S/1296/18-19	59	26	6.0	13.3	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
23	24.12.2018	GCS/LAB/S/1296/18-19	49	21	5.8	12.4	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
24	26.12.2018	GCS/LAB/S/1296/18-19	53	22	6.5	12.9	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
25	02.01.2019	GCS/LAB/S/1359/18-19	44	19	5.0	12.1	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
26	04.01.2019	GCS/LAB/S/1359/18-19	49	22	5.8	11.0	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
27	07.01.2019	GCS/LAB/S/1359/18-19	58	25	5.4	12.7	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
28	11.01.2019	GCS/LAB/S/1359/18-19	42	17	6.6	14.2	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
29	16.01.2019	GCS/LAB/S/1359/18-19	56	23	6.1	13.8	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
30	18.01.2019	GCS/LAB/S/1359/18-19	47	20	7.4	13.9	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
31	21.01.2019	GCS/LAB/S/1359/18-19	55	24	6.5	13.0	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
32	24.01.2019	GCS/LAB/S/1359/18-19	46	19	6.2	13.5	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
33	01.02.2019	GCS/LAB/S/1445/18-19	52	21	6.1	13.8	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
34	04.02.2019	GCS/LAB/S/1445/18-19	55	26	5.2	13.0	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
35	08.02.2019	GCS/LAB/S/1445/18-19	50	19	5.8	14.1	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
36	11.02.2019	GCS/LAB/S/1445/18-19	46	18	5.5	12.8	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
37	15.02.2019	GCS/LAB/S/1445/18-19	48	20	5.3	14.7	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
38	18.02.2019	GCS/LAB/S/1445/18-19	42	16	6.7	13.5	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
39	22.02.2019	GCS/LAB/S/1445/18-19	40	14	7.1	14.5	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
40	25.02.2019	GCS/LAB/S/1445/18-19	53	22	7.4	12.9	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
41	01.03.2019	GCS/LAB/S/1516/18-19	50	19	6.8	14.5	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
42	04.03.2019	GCS/LAB/S/1516/18-19	52	24	6.0	13.9	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
43	08.03.2019	GCS/LAB/S/1516/18-19	58	26	5.1	13.0	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
44	11.03.2019	GCS/LAB/S/1516/18-19	51	20	6.3	14.2	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
45	15.03.2019	GCS/LAB/S/1516/18-19	53	22	5.9	13.6	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
46	18.03.2019	GCS/LAB/S/1516/18-19	49	18	5.5	14.7	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
47	22.03.2019	GCS/LAB/S/1516/18-19	45	16	6.2	13.8	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
48	25.03.2019	GCS/LAB/S/1516/18-19	47	17	6.4	14.1	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1

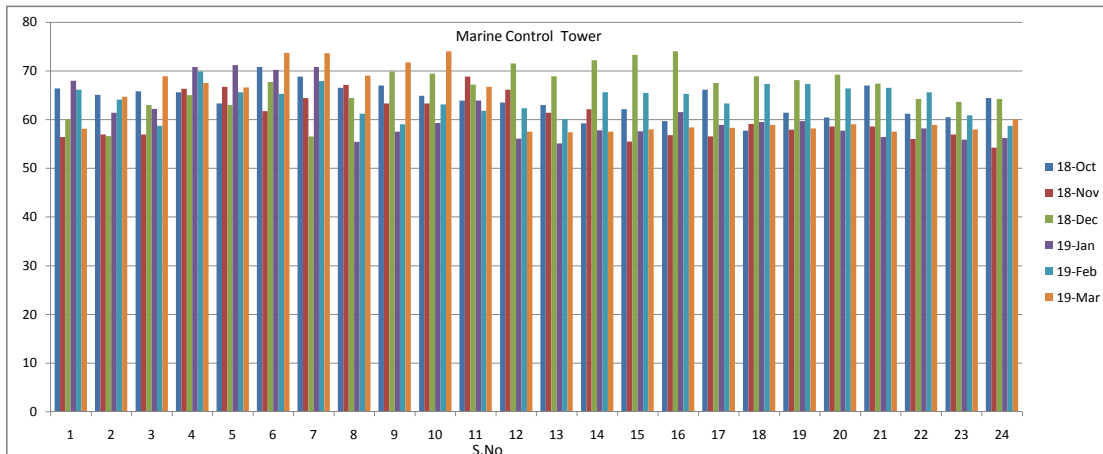
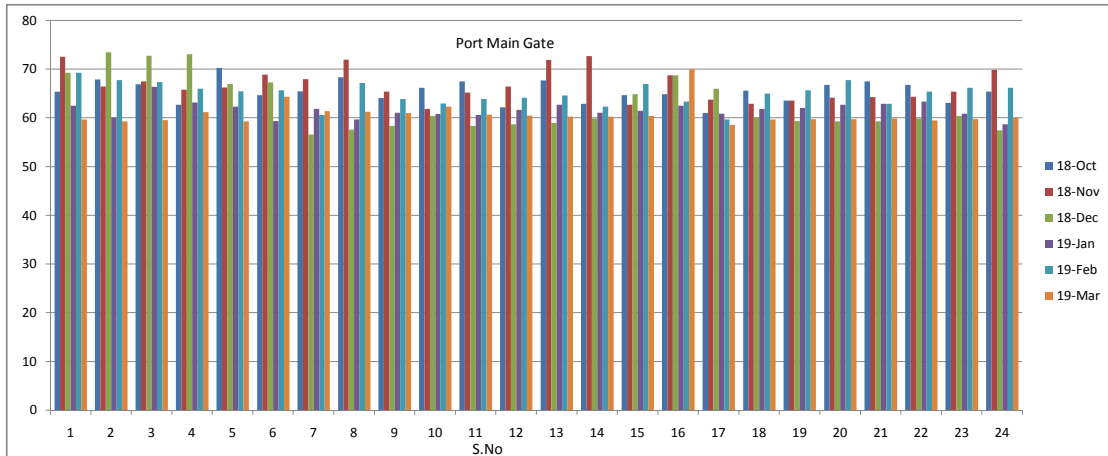


KALANJI VILLAGE (AAQ4)														
Parameters			Particular matter PM ₁₀	Particular matter PM _{2.5}	Sulphur dioxide as SO ₂	Nitrogen dioxide as NO ₂	Lead as Pb	Carbon monoxide as CO	Ozone as O ₃	Ammonia as NH ₃	Arsenic as As	Nickel as Ni	Benzene as C ₆ H ₆	Benzo (a) pyrene as BaP
Unit			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	µg/m ³	ng/m ³
National AAQM Standard			100	60	80	80	1	4	180	400	6	20	5	1
S.No.	Sampling Date	Report Number												
1	06.10.2018	GCS/LAB/S/1164/18-19	34	13	3.5	10.0	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
2	08.10.2018	GCS/LAB/S/1164/18-19	42	17	4.3	11.6	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
3	12.10.2018	GCS/LAB/S/1164/18-19	51	20	4.7	12.6	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
4	15.10.2018	GCS/LAB/S/1164/18-19	48	19	5.2	11.4	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
5	19.10.2018	GCS/LAB/S/1164/18-19	53	22	6.0	11.9	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
6	22.10.2018	GCS/LAB/S/1164/18-19	45	18	6.4	13.0	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
7	26.10.2018	GCS/LAB/S/1164/18-19	50	18	5.7	12.5	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
8	29.10.2018	GCS/LAB/S/1164/18-19	54	23	6.0	13.6	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
9	02.11.2018	GCS/LAB/S/1216/18-19	41	16	4.7	11.4	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
10	07.11.2018	GCS/LAB/S/1216/18-19	52	21	5.5	12.7	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
11	09.11.2018	GCS/LAB/S/1216/18-19	43	18	5.2	11.9	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
12	12.11.2018	GCS/LAB/S/1216/18-19	45	17	4.9	12.6	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
13	16.11.2018	GCS/LAB/S/1216/18-19	49	20	6.6	12.4	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
14	19.11.2018	GCS/LAB/S/1216/18-19	55	24	5.7	11.8	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
15	23.11.2018	GCS/LAB/S/1216/18-19	36	13	3.9	9.7	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
16	26.11.2018	GCS/LAB/S/1216/18-19	48	21	5.0	13.3	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
17	03.12.2018	GCS/LAB/S/1296/18-19	35	14	3.8	9.6	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
18	07.12.2018	GCS/LAB/S/1296/18-19	49	18	4.6	11.0	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
19	10.12.2018	GCS/LAB/S/1296/18-19	51	20	5.9	12.7	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
20	14.12.2018	GCS/LAB/S/1296/18-19	40	15	5.3	13.4	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
21	17.12.2018	GCS/LAB/S/1296/18-19	53	22	6.0	11.9	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
22	21.12.2018	GCS/LAB/S/1296/18-19	48	17	4.3	12.6	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
23	24.12.2018	GCS/LAB/S/1296/18-19	44	16	4.7	11.5	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
24	26.12.2018	GCS/LAB/S/1296/18-19	52	23	5.8	12.4	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
25	02.01.2019	GCS/LAB/S/1359/18-19	41	16	4.7	11.4	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
26	04.01.2019	GCS/LAB/S/1359/18-19	52	20	5.2	12.6	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
27	07.01.2019	GCS/LAB/S/1359/18-19	46	18	6.3	13.4	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
28	11.01.2019	GCS/LAB/S/1359/18-19	55	24	5.9	12.1	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
29	16.01.2019	GCS/LAB/S/1359/18-19	44	17	6.8	13.0	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
30	18.01.2019	GCS/LAB/S/1359/18-19	53	21	5.7	13.3	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
31	21.01.2019	GCS/LAB/S/1359/18-19	49	19	5.5	12.7	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
32	24.01.2019	GCS/LAB/S/1359/18-19	43	15	6.2	13.1	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
33	01.02.2019	GCS/LAB/S/1445/18-19	45	17	5.4	13.0	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
34	04.02.2019	GCS/LAB/S/1445/18-19	48	19	6.0	13.5	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
35	08.02.2019	GCS/LAB/S/1445/18-19	52	22	5.7	14.8	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
36	11.02.2019	GCS/LAB/S/1445/18-19	42	15	6.6	13.3	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
37	15.02.2019	GCS/LAB/S/1445/18-19	55	24	7.2	14.1	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
38	18.02.2019	GCS/LAB/S/1445/18-19	50	18	6.9	12.5	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
39	22.02.2019	GCS/LAB/S/1445/18-19	44	16	6.7	14.1	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
40	25.02.2019	GCS/LAB/S/1445/18-19	51	20	7.3	13.9	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
41	01.03.2019	GCS/LAB/S/1516/18-19	42	15	6.3	14.1	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
42	04.03.2019	GCS/LAB/S/1516/18-19	46	18	5.5	14.0	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
43	08.03.2019	GCS/LAB/S/1516/18-19	55	23	6.0	13.4	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
44	11.03.2019	GCS/LAB/S/1516/18-19	50	17	7.1	14.5	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
45	15.03.2019	GCS/LAB/S/1516/18-19	58	26	5.9	14.8	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
46	18.03.2019	GCS/LAB/S/1516/18-19	54	20	6.2	13.6	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
47	22.03.2019	GCS/LAB/S/1516/18-19	47	19	5.6	13.2	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1
48	25.03.2019	GCS/LAB/S/1516/18-19	56	24	6.1	14.3	<0.1	<1.0	<10	<2	<2	<2	<1	<0.1

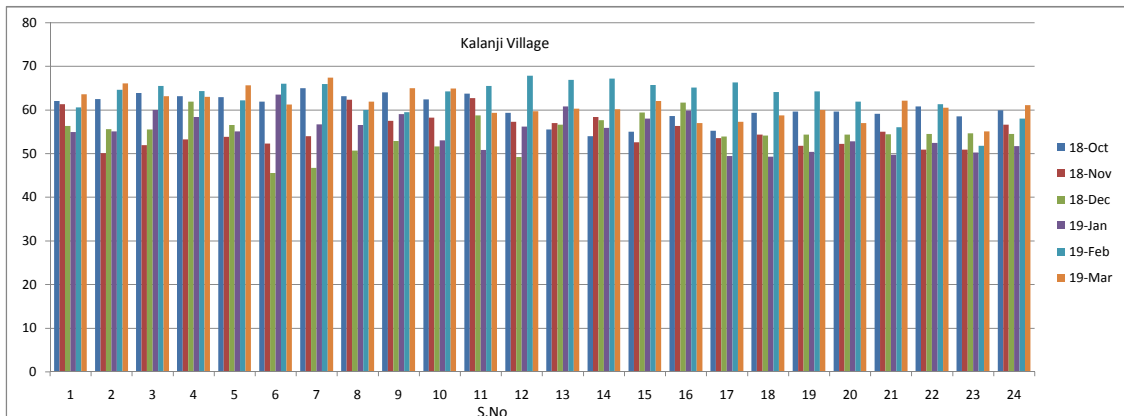
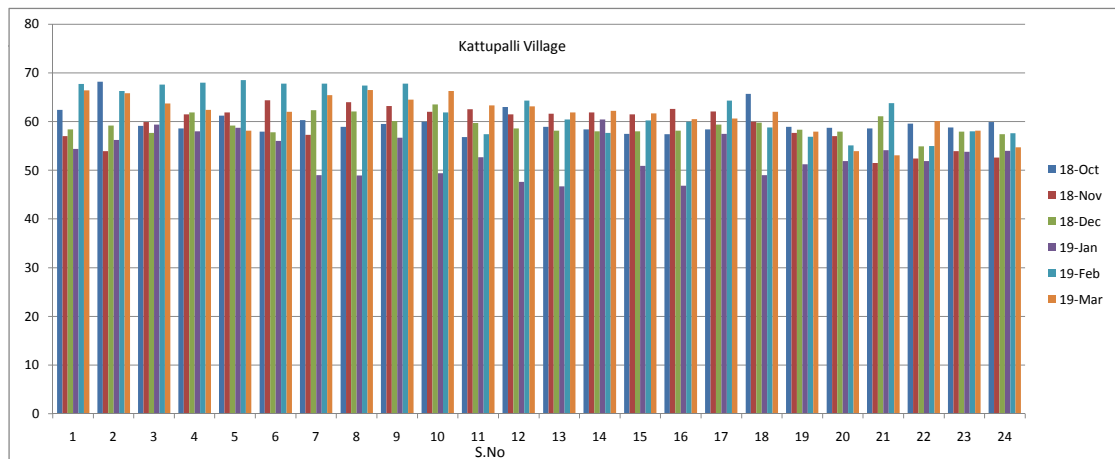


AMBIENT NOISE LEVEL MONITORING

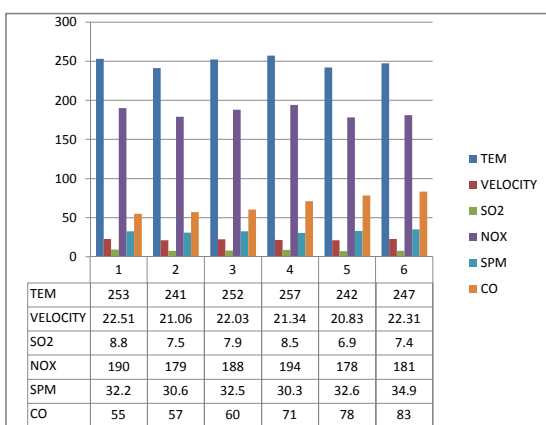
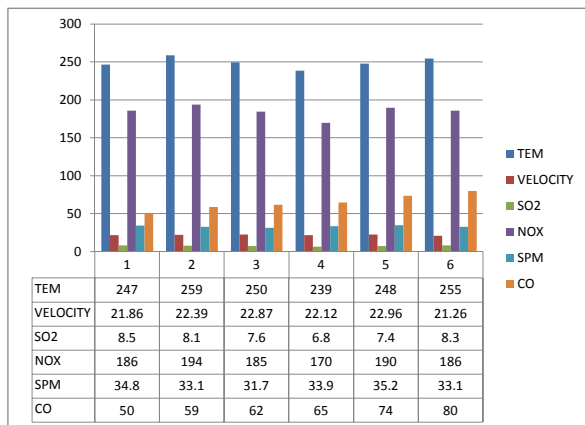
Location		PORT MAIN GATE						MARINE CONTROL					
Month & Year		Oct - 18	Nov - 18	Dec-18	Jan-19	Feb-19	Mar-19	Oct - 18	Nov - 18	Dec-18	Jan-19	Feb-19	Mar-19
Parameter & Unit		Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)
S.No.	Time of Sampling												
1	06.00 – 07.00 (Day)	65.4	72.6	69.3	62.5	69.3	59.7	66.4	56.4	60.1	68	66.1	58.1
2	07.00 – 08.00	67.9	66.5	73.5	60.1	67.8	59.3	65.1	56.9	56.6	61.4	64.1	64.7
3	08.00 – 09.00	66.9	67.5	72.8	66.4	67.4	59.6	65.8	56.9	63	62.2	58.7	68.9
4	09.00 – 10.00	62.7	65.8	73.1	63.2	66	61.2	65.6	66.3	65	70.8	69.9	67.5
5	10.00 – 11.00	70.3	66.3	67	62.3	65.5	59.3	63.3	66.7	63	71.2	65.6	66.6
6	11.00 – 12.00	64.7	68.9	67.3	59.4	65.7	64.4	70.8	61.7	67.7	70.2	65.3	73.7
7	12.00 – 13.00	65.5	68.0	56.6	61.9	60.6	61.4	68.8	64.4	56.5	70.8	67.9	73.6
8	13.00 – 14.00	68.4	72.0	57.6	59.7	67.2	61.3	66.5	67.1	64.4	55.4	61.2	69
9	14.00 – 15.00	64.1	65.4	58.4	61.1	63.9	61	67.0	63.3	69.9	57.5	59	71.7
10	15.00 – 16.00	66.2	61.9	60.4	60.8	63	62.3	64.9	63.3	69.4	59.3	63.1	74
11	16.00 – 17.00	67.5	65.2	58.4	60.6	63.9	60.7	63.9	68.8	67.2	63.9	61.8	66.7
12	17.00 – 18.00	62.2	66.5	58.7	61.7	64.2	60.5	63.5	66.1	71.5	56.1	62.3	57.5
13	18.00 – 19.00	67.7	71.9	59	62.7	64.6	60.3	63.0	61.4	68.9	55.1	60.1	57.4
14	19.00 – 20.00	62.9	72.7	59.9	61.1	62.3	60.3	59.2	62.1	72.2	57.8	65.6	57.5
15	20.00 – 21.00	64.7	62.7	64.9	61.5	67	60.4	62.1	55.5	73.3	57.6	65.5	58
16	21.00 – 22.00	64.9	68.8	68.8	62.5	63.4	70	59.7	56.8	74	61.5	65.3	58.4
17	22.00 – 23.00 (Night)	61.0	63.8	66	60.9	59.7	58.6	66.1	56.5	67.5	58.9	63.3	58.3
18	23.00 – 00.00	65.6	62.9	60.1	61.9	65	59.7	57.7	59.1	68.9	59.5	67.3	58.9
19	00.00 – 01.00	63.6	63.6	59.4	62.1	65.7	59.8	61.4	57.9	68.1	59.7	67.3	58.2
20	01.00 – 02.00	66.8	64.2	59.3	62.7	67.8	59.8	60.4	58.6	69.2	57.7	66.4	59
21	02.00 – 03.00	67.5	64.3	59.3	62.9	62.9	59.9	67.0	58.6	67.4	56.4	66.5	57.5
22	03.00 – 04.00	66.8	64.4	59.9	63.4	65.4	59.5	61.2	56.0	64.2	58.2	65.6	58.9
23	04.00 – 05.00	63.1	65.4	60.4	60.9	66.2	59.8	60.5	56.9	63.6	55.9	60.9	58
24	05.00 – 06.00	65.4	69.9	57.5	58.7	66.2	60.1	64.4	54.2	64.2	56.2	58.7	60



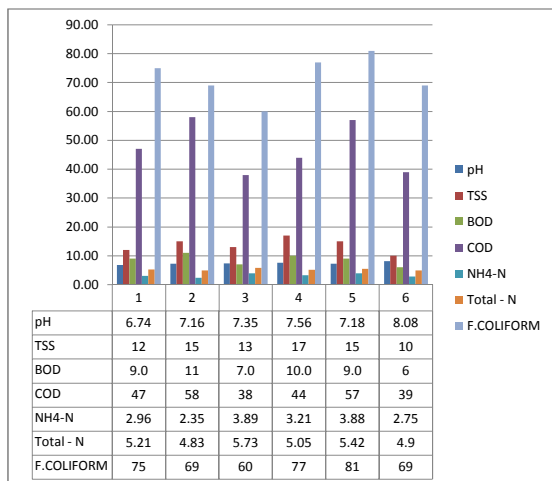
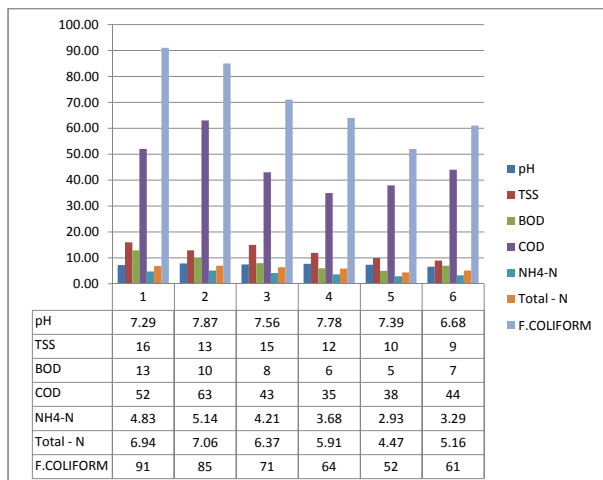
Location		KATTUPALLI VILLAGE						KALANJI VILLAGE					
Month & Year		Oct - 18	Nov - 18	Dec-18	Jan-19	Feb-19	Mar-19	Oct - 18	Nov - 18	Dec-18	Jan-19	Feb-19	Mar-19
Parameter & Unit		Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)
S.No.	Time of Sampling												
1	06.00 – 07.00 (Day)	62.4	57.0	58.4	54.4	67.7	66.4	62.0	61.3	56.3	54.9	60.6	63.6
2	07.00 – 08.00	68.2	53.9	59.2	56.2	66.3	65.8	62.5	50.1	55.6	55.1	64.6	66.1
3	08.00 – 09.00	59.1	59.9	57.7	59.4	67.6	63.7	63.9	51.9	55.5	60	65.5	63.1
4	09.00 – 10.00	58.6	61.5	61.9	58	68	62.4	63.1	53.2	61.9	58.4	64.3	63
5	10.00 – 11.00	61.2	61.9	59.2	58.7	68.5	58.1	62.9	53.8	56.5	55.1	62.2	65.6
6	11.00 – 12.00	57.9	64.4	57.8	56	67.8	62	61.9	52.3	45.5	63.5	66	61.2
7	12.00 – 13.00	60.3	57.3	62.3	49	67.8	65.4	65.0	54.0	46.7	56.7	65.9	67.4
8	13.00 – 14.00	58.9	64.0	62.1	48.9	67.4	66.5	63.1	62.3	50.7	56.5	60	61.9
9	14.00 – 15.00	59.5	63.2	60.1	56.7	67.8	64.5	64.0	57.5	52.9	59	59.5	65
10	15.00 – 16.00	60.0	62.0	63.5	49.4	61.9	66.3	62.4	58.2	51.6	53	64.2	64.9
11	16.00 – 17.00	56.8	62.5	59.7	52.7	57.4	63.3	63.7	62.7	58.7	50.8	65.5	59.3
12	17.00 – 18.00	63.0	61.5	58.6	47.6	64.3	63.1	59.3	57.3	49.2	56.2	67.8	59.7
13	18.00 – 19.00	58.9	61.6	58.1	46.7	60.4	61.9	55.5	57.0	56.6	60.8	66.9	60.3
14	19.00 – 20.00	58.4	61.9	58	60.4	57.7	62.2	54.0	58.4	57.6	55.9	67.2	60.1
15	20.00 – 21.00	57.5	61.5	58	50.9	60.2	61.7	55.0	52.6	59.4	58	65.7	62
16	21.00 – 22.00	57.4	62.6	58.1	46.8	60	60.5	58.6	56.3	61.7	59.8	65.1	57
17	22.00 – 23.00 (Night)	58.4	62.1	59.4	57.5	64.3	60.6	55.2	53.5	53.9	49.4	66.3	57.3
18	23.00 – 00.00	65.7	60.0	59.8	49	58.8	62	59.3	54.3	54.1	49.3	64.1	58.7
19	00.00 – 01.00	58.9	57.7	58.3	51.2	56.9	57.9	59.6	51.8	54.3	50.4	64.2	60
20	01.00 – 02.00	58.7	57.0	57.9	51.9	55.1	53.9	59.6	52.2	54.3	52.8	61.9	57
21	02.00 – 03.00	58.6	51.5	61.1	54.1	63.8	53.1	59.1	55.0	54.4	49.7	56	62.1
22	03.00 – 04.00	59.6	52.4	54.9	51.9	55	60.1	60.8	50.9	54.5	52.4	61.3	60.5
23	04.00 – 05.00	58.8	53.9	57.9	53.8	58	58.1	58.5	50.9	54.6	50.2	51.8	55.1
24	05.00 – 06.00	59.9	52.6	57.4	54	57.6	54.7	59.9	56.6	54.5	51.7	58	61.1



STACK MONITORING													
Location		DG 2000KVA - 1						DG 2000KVA - 2					
Month & Year		Oct - 18	Nov - 18	Dec-18	Jan-19	Feb-19	Mar-19	Oct - 18	Nov - 18	Dec-18	Jan-19	Feb-19	Mar-19
S.No.	Parameters												
1	Stack Temperature, °C	247	259	250	239	248	255	253	241	252	257	242	247
2	Flue Gas Velocity, m/s	21.86	22.39	22.87	22.12	22.96	21.26	22.51	21.06	22.03	21.34	20.83	22.31
3	Sulphur Dioxide, mg/Nm3	8.5	8.1	7.6	6.8	7.4	8.3	8.8	7.5	7.9	8.5	6.9	7.4
4	NOX (as NO2) in ppmv	186	194	185	170	190	186	190	179	188	194	178	181
5	Particular matter, mg/Nm3	34.8	33.1	31.7	33.9	35.2	33.1	32.2	30.6	32.5	30.3	32.6	34.9
6	Carbon Monoxide, mg/Nm3	50	59	62	65	74	80	55	57	60	71	78	83
7	Gas Discharge, Nm3/hr	5631	5638	5858	5787	5903	5393	5732	5488	5621	5393	5418	5747



STP OUTLET WATER													
Location		STP 30KLD OUTLET						STP 5KLD OUTLET					
Month & Year		Oct - 18	Nov - 18	Dec-18	Jan-19	Feb-19	Mar-19	Oct - 18	Nov - 18	Dec-18	Jan-19	Feb-19	Mar-19
S.No.	Parameters												
1	pH @ 25°C	7.29	7.87	7.56	7.78	7.39	6.68	6.74	7.16	7.35	7.56	7.18	8.08
2	Total Suspended Solids, mg/L	16	13	15	12	10	9	12	15	13	17	15	10
3	BOD at 27°C for 3 days, mg/L	13	10	8	6	5	7	9.0	11	7.0	10.0	9.0	6
4	COD, mg/L	52	63	43	35	38	44	47	58	38	44	57	39
5	Ammonical Nitrogen as NH4-N, mg/L	4.83	5.14	4.21	3.68	2.93	3.29	2.96	2.35	3.89	3.21	3.88	2.75
6	Total Kjeldahl Nitrogen as N-Total, mg/L	6.94	7.06	6.37	5.91	4.47	5.16	5.21	4.83	5.73	5.05	5.42	4.9
7	Fecal Coliform, MPN/100ml	91	85	71	64	52	61	75	69	60	77	81	69



DRINKING WATER								
Month & Year		Unit	Oct - 18	Nov - 18	Dec-18	Jan-19	Feb-19	Mar-19
S.No.	Parameters							
1	pH @ 25°C	-	6.92	6.53	7.97	6.59	6.70	6.57
2	Total Hardness as CaCo3	mg/L	13.0	4	11.0	BDL	12	4
3	Chloride as Cl	mg/L	12	11	12	14	16	22
4	Total Dissolved Solids	mg/L	47	20	32	21	30	41
5	Calcium as Ca	mg/L	5.6	0.8	3.6	BDL	4.0	1.2
6	Sulphate as SO4	mg/L	BDL (DL:1.0)					
7	Nitrate as No3	mg/L	BDL (DL:1.0)					
8	Total Alkalinity as CaCo3	mg/L	19	5	19	7.1	9.5	11
9	Magnesium as Mg	mg/L	0.96	0.48	0.72	BDL	0.48	0.24
10	Color	Hazen	-					
11	Odour	-	Unobjectionable					
12	Taste	-	Agreeable					
13	Turbidity	NTU	<0.5					
14	Iron as Fe	mg/L	BDL(DL 0.05)					
15	Total Residual Chlorine	mg/L	BDL(DL 0.1)					
16	Copper as Cu	mg/L	BDL(DL 0.05)					
17	Manganese as Mn	mg/L	BDL(DL 0.05)					
18	Fluoride as F	mg/L	BDL(DL 0.1)					
19	Phenolic compounds as C6H5OH	mg/L	BDL(DL 0.001)					
20	Mercury as Hg	mg/L	BDL(DL 0.001)					
21	Cadmium as Cd	mg/L	BDL(DL 0.003)					
22	Selenium as Se	mg/L	BDL(DL 0.01)					
23	Arsenic as As	mg/L	BDL(DL 0.01)					
24	Lead as Pb	mg/L	BDL(DL 0.01)					
25	Zinc as Zn	mg/L	BDL(DL 0.05)					
26	Anionic Detergents as MBAS	mg/L	Nil					
27	Total Chromium as Cr	mg/L	BDL(DL 0.05)					
28	Phenolphthalein Alkalinity as CaCo3	mg/L	Nil					
29	Aluminium as Al	mg/L	BDL(DL 0.05)					
30	Boron as B	mg/L	BDL(DL 0.1)					
31	Mineral Oil	mg/L	Nil					
32	Polynuclear Aromatic Hydrocarbons as [PAH]	mg/L	Nil					
33	Pesticides	mg/L	Nil					
34	Cyanide as CN	mg/L	BDL (DL : 0.01)					
35	E. coli	MPN/100ml	Absence					
36	Total Coliform	MPN/100ml	Absence					

MARINE WATER														
Location		CB - 1 Surface Water							CB - 2 Surface Water					
Month & Year		Unit	Oct-18	Nov - 18	Dec-18	Jan-19	Feb-19	Mar-19	Oct - 18	Nov - 18	Dec-18	Jan-19	Feb-19	Mar-19
S.No.	Parameters													
1	pH @ 25°C	-	7.48	7.81	7.69	7.43	7.61	7.22	7.6	7.83	7.63	7.81	7.93	7.5
2	Temperature	°C	29	29	29	29	29	29	29	29	29	29	29	29
3	Total Suspended Solids	mg/L	20	27	24	30	26	23	14	18	21	27	20	25
4	BOD at 27 °C for 3 days	mg/L	11	16	10	13	12	11	10	12	9	11	9	12
5	Dissolved oxygen	mg/L	4.4	4.2	3.8	3.4	3.7	3.1	3.8	3.1	3.7	3.5	3.1	2.9
6	Salinity at 25 °C	-	31.8	32.1	34.6	37.1	35.5	37.7	33.2	32	36.4	40	45.5	43.9
7	Oil & Grease	mg/L	BDL(DL 1.0)							BDL(DL 1.0)				
8	Nitrate as NO ₃	mg/L	7.56	5.98	6.47	6.96	5.4	6.24	6.13	6.77	7.25	7.89	6.27	5.95
9	Nitrite as NO ₂	mg/L	4.29	3.75	4.05	3.78	3.07	3.96	3.84	4.06	4.84	4.32	3.91	4.62
10	Ammonical Nitrogen as N	mg/L	BDL(DL 1.0)							BDL(DL 1.0)				
11	Ammonia as NH ₃	mg/L	BDL(DL 0.01)							BDL(DL 0.01)				
12	Kjeldahl Nitrogen as N	mg/L	BDL(DL 1.0)							BDL(DL 1.0)				
13	Total phosphates as PO ₄	mg/L	2.07	2.94	2.71	3.05	3.11	4.07	1.06	1.84	2.08	2.67	3.19	3.84
14	Total Nitrogen	mg/L	BDL(DL 1.0)							BDL(DL 1.0)				
15	Total Dissolved Solids	mg/L	34672	33086	34817	36892	33290	34895	36015	34891	34002	38654	39842	38254
16	COD	mg/L	65	78	85	93	104	112	87	103	96	83	101	120
17	Total bacterial count	cfu/ml	81	85	74	80	85	78	70	82	89	77	80	86
18	Coliforms	Per 100 ml	Absence							Absence				
19	Escherichia coli	Per 100 ml	Absence							Absence				
20	Salmonella	Per 100 ml	Absence							Absence				
21	Shigella	Per 100 ml	Absence							Absence				
22	Vibrio cholerae	Per 100 ml	Absence							Absence				
23	Vibrio parahaemolyticus	Per 100 ml	Absence							Absence				
24	Enterococci	Per 100 ml	Absence							Absence				
25	Octane	µg/L	134	127	119	113	121	109	148	135	143	155	165	147
26	Nonane	µg/L	BDL(DL 0.1)							BDL(DL 0.1)				
27	Decane	µg/L	BDL(DL 0.1)							BDL(DL 0.1)				
28	Undecane	µg/L	BDL(DL 0.1)							BDL(DL 0.1)				
29	Tridecane	µg/L	5.9	6.6	7.2	7.9	6.8	7.6	7.1	7.8	8.2	8.6	8.9	8.3
30	Tetradecane	µg/L	BDL(DL 0.1)							BDL(DL 0.1)				
31	Pentadecane	µg/L	BDL(DL 0.1)							BDL(DL 0.1)				
32	Hexadecane	µg/L	BDL(DL 0.1)							BDL(DL 0.1)				
33	Octadecane	µg/L	BDL(DL 0.1)							BDL(DL 0.1)				
34	Nonadecane	µg/L	BDL(DL 0.1)							BDL(DL 0.1)				
35	Elcosane	µg/L	BDL(DL 0.1)							BDL(DL 0.1)				
36	Primary Productivity	mg C/m ³ /hr	6.35	6.74	7.12	7.89	8.73	8.06	7.34	8.05	8.65	8.04	9.2	8.28
37	Chlorophyll a	mg /m ³	5.41	5.65	5.98	6.37	6.98	7.29	6.86	6.23	6.83	7.16	7.83	6.95
38	Phaeophytin	mg /m ³	0.62	0.51	0.65	0.61	0.69	0.62	0.57	0.69	0.57	0.67	0.73	0.79
39	Oxidisable Paticular Organic	mg /L	3.97	4.98	5.34	5.93	6.81	6.38	6.11	5.44	5.01	5.36	5.99	6.16
PHYTOPLANKTON														
40	Bacteriastrium hyalinum	nos/ml	14	13	10	14	16	14	8	11	8	12	14	12
41	Bacteriastrium varians	nos/ml	10	7	9	12	11	10	11	13	11	14	16	15
42	Chaetoceros didymus	nos/ml	8	11	14	10	13	15	6	9	12	9	11	10
43	Chaetoceros decipiens	nos/ml	5	8	11	15	12	16	9	12	15	17	15	11
44	Biddulphia mobiliensis	nos/ml	11	14	12	9	7	9	13	10	9	10	13	14
45	Ditylum brightwellii	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
46	Gyrosigma sp	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
47	Cladophyxis sps	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
48	Coscinodiscus centralis	nos/ml	12	16	17	13	15	10	10	15	13	15	10	8
49	Coscinodiscus granii	nos/ml	15	18	15	18	20	17	18	20	17	20	17	13
50	Cylcotella sps	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
51	Hemidiscus hardmanianus	nos/ml	8	6	8	11	14	11	23	17	14	11	12	7
52	Laudaria annulata	nos/ml	13	10	7	8	10	13	15	11	16	13	10	16
53	Pyropacus horologicum	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
54	Pleurosigma angulatum	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
55	Leptocylindrus danicus	nos/ml	9	12	16	19	16	18	6	9	10	14	18	20
56	Guinardia flaccida	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
57	Rhizosolenia alata	nos/ml	14	15	17	16	19	20	7	14	18	15	9	16
58	Rhizosolenia impricata	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
59	Rhizosolenia semispina	nos/ml	16	9	11	7	8	5	12	8	7	8	15	9
60	Thalassionema nitzschioides	nos/ml	20	18	19	17	13	8	14	16	19	21	23	19
61	Triceratium reticulatum	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
62	Ceratium trichoceros	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
63	Ceratium furca	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
64	Ceratium macroceros	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
65	Ceracium longipes	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
ZOOPLANKTONS														
66	Acrocalanus gracilis	nos/ml	11	13	16	14	17	19	14	10	14	16	18	12
67	Acrocalanus sp	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
68	Paracalanus parvus	nos/ml	5	7	10	12	14	12	16	12	16	18	15	10
69	Eutintinus sps	nos/ml	10	12	14	17	13	10	9	13	11	14	10	14
70	Centropages furcatus	nos/ml	16	13	17	15	10	8	21	18	12	9	8	11
71	Corycaeus dana	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
72	Oithona brevicornis	nos/ml	9	11	8	11	8	11	11	15	17	19	17	13
73	Euterpina acutifrons	nos/ml	13	15	13	14	16	14	10	14	10	12	14	17
74	Metacalanus aurivilli	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
75	Copepod nauplii	nos/ml	7	9	11	9	12	15	18	11	13	15	13	18
76	Cirripede nauplii	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
77	Bivalve veliger	nos/ml	19	16	12	10	15	17	12	18	18	11	9	15
78	Gastropod veliger	nos/ml	8	10	15	18	21	16	15	17	13	17	13	9

Location		CB - 1 Bottom Water							CB - 2 Bottom Water					
Month & Year		Unit	Oct - 18	Nov - 18	Dec-18	Jan-19	Feb-19	Mar-19	Oct - 18	Nov - 18	Dec-18	Jan-19	Feb-19	Mar-19
S.No.	Parameters													
1	pH @ 25°C	-	7.43	7.59	7.81	7.63	7.59	7.34	7.64	7.73	7.59	7.76	7.84	7.59
2	Temperature	°C	29	29	29	29	29	29	29	29	29	29	29	29
3	Total Suspended Solids	mg/L	16	20	24	36	32	29	18	20	27	32	27	24
4	BOD at 27 °C for 3 days	mg/L	8	11	13	15	14	13	12	15	16	19	16	14
5	Dissolved oxygen	mg/L	2.2	2.5	2.2	1.8	2.5	2.7	2.1	2.4	2.1	1.7	2.2	3
6	Salinity at 25 °C	-	26.4	28.9	37.2	37.6	41.8	36.8	31	31.6	35.5	36.4	39.1	41.1
7	Oil & Grease	mg/L	BDL(DL 1.0)							BDL(DL 1.0)				
8	Nitrate as NO ₃	mg/L	6.43	7.01	7.86	7.98	9.14	8.44	4.87	5.91	6.83	7.08	8.43	7.93
9	Nitrite as NO ₂	mg/L	5.65	5.98	6.25	6.46	7.38	5.29	3.2	4.08	4.59	4.91	5.99	6.2
10	Ammonical Nitrogen as N	mg/L	BDL(DL 1.0)							BDL(DL 1.0)				
11	Ammonia as NH3	mg/L	BDL(DL 0.01)							BDL(DL 0.01)				
12	Kjeldahl Nitrogen as N	mg/L	BDL(DL 1.0)							BDL(DL 1.0)				
13	Total phosphates as PO4	mg/L	1.9	2.43	2.19	2.87	3.32	5.71	2.43	2.17	2.85	3.22	4.05	4.54
14	Total Nitrogen	mg/L	BDL(DL 1.0)							BDL(DL 1.0)				
15	Total Dissolved Solids	mg/L	31785	32868	33317	34012	37003	35987	33119	34265	40233	41568	42157	41342
16	COD	mg/L	70	83	72	91	98	108	78	89	76	80	110	118
17	Total bacterial count	cfu/ml	76	70	64	69	76	70	82	73	80	89	94	87
18	Coliforms	Per 100 ml	Absence							Absence				
19	Escherichia coli	Per 100 ml	Absence							Absence				
20	Salmonella	Per 100 ml	Absence							Absence				
21	Shigella	Per 100 ml	Absence							Absence				
22	Vibrio cholerae	Per 100 ml	Absence							Absence				
23	Vibrio parahaemolyticus	Per 100 ml	Absence							Absence				
24	Enterococci	Per 100 ml	Absence							Absence				
25	Colour	Hazan	5	10	15	10	15	10	10	15	12	15	10	5
26	Odour	-	Unobjectionable							Unobjectionable				
27	Taste	-	Disagreeable							Disagreeable				
28	Turbidity	NTU	10	25	32	35	41	37	11.8	14.2	18.1	20.6	18.3	15.7
29	Calcium as Ca	mg/L	332	351	398	341	374	357	351	394	417	494	501	451
30	Chloride as Cl	mg/L	14641	15997	20612	20839	23156	20348	17243	17491	19632	20136	21464	22800
31	Cyanide as CN	mg/L	BDL(DL 0.01)							BDL(DL 0.01)				
32	Fluoride as F	mg/L	0.37	0.44	0.53	0.72	0.8	0.72	0.46	0.4	0.52	0.6	0.66	0.75
33	Magnesium as Mg	mg/L	1120	1282	1205	1148	1261	1124	1248	1303	1376	1412	1510	1392
34	Total Iron as Fe	mg/L	0.19	0.27	0.32	0.37	0.55	0.69	0.41	0.48	0.44	0.49	0.52	0.46
35	Residual Free Chlorine	mg/L	BDL(DL 0.1)							BDL(DL 0.1)				
36	Phenolic Compounds as C6H5OH	mg/L	BDL(DL 1.0)							BDL(DL 1.0)				
37	Total Hardness as CaCO3	mg/L	5497	6219	6016	5636	6189	5576	6078	6414	6776	7118	7544	6928
38	Total Alkalinity as CaCO3	mg/L	168	205	289	255	276	311	162	196	214	272	290	324
39	Sulphide as H2S	mg/L	BDL(DL 0.5)							BDL(DL 0.5)				
40	Sulphate as SO4	mg/L	2334	2198	2042	2083	2265	2043	2513	2242	2150	2216	2147	2039
41	Anionic surfactants as MBAS	mg/L	BDL(DL 1.0)							BDL(DL 1.0)				
42	Monocrotophos	µg/L	BDL(DL 0.01)							BDL(DL 0.01)				
43	Atrazine	µg/L	BDL(DL 0.01)							BDL(DL 0.01)				
44	Ethion	µg/L	BDL(DL 0.01)							BDL(DL 0.01)				
45	Chlorpyrifos	µg/L	BDL(DL 0.01)							BDL(DL 0.01)				
46	Phorate	µg/L	BDL(DL 0.01)							BDL(DL 0.01)				
47	Mehyle parathion	µg/L	BDL(DL 0.01)							BDL(DL 0.01)				
48	Malathion	µg/L	BDL(DL 0.01)							BDL(DL 0.01)				
49	DDT (o,p and p,p-Isomers of DDT,DDE and DDD	µg/L	BDL(DL 0.01)							BDL(DL 0.01)				
50	Gamma HCH (Lindane)	µg/L	BDL(DL 0.01)							BDL(DL 0.01)				
51	Alppha HCH	µg/L	BDL(DL 0.01)							BDL(DL 0.01)				
52	Beta HCH	µg/L	BDL(DL 0.01)							BDL(DL 0.01)				
53	Delta HCH	µg/L	BDL(DL 0.01)							BDL(DL 0.01)				
54	Endosulfan (Alpha,beta and sulphate)	µg/L	BDL(DL 0.01)							BDL(DL 0.01)				
55	Butachlor	µg/L	BDL(DL 0.01)							BDL(DL 0.01)				
56	Alachlor	µg/L	BDL(DL 0.01)							BDL(DL 0.01)				
57	Aldrin/Dieldrin	µg/L	BDL(DL 0.01)							BDL(DL 0.01)				
58	Isoproturon	µg/L	BDL(DL 0.01)							BDL(DL 0.01)				
59	2,4-D	µg/L	BDL(DL 0.01)							BDL(DL 0.01)				
60	Polychlorinated Biphenyls (PCB)	µg/L	BDL(DL 0.01)							BDL(DL 0.01)				
61	Polynuclear aromatic hydrocarbons (PAH)	µg/L	BDL(DL 0.01)							BDL(DL 0.01)				
62	Arsenic as As	mg/L	BDL(DL 0.01)							BDL(DL 0.01)				
63	Mercury as Hg	mg/L	BDL(DL 0.001)							BDL(DL 0.001)				
64	Cadmium as Cd	mg/L	BDL(DL 0.003)							BDL(DL 0.003)				
65	Total Chromium as Cr	mg/L	BDL(DL 0.05)							BDL(DL 0.05)				
66	Copper as Cu	mg/L	BDL(DL 0.05)							BDL(DL 0.05)				
67	Lead as Pb	mg/L	BDL(DL 0.01)							BDL(DL 0.01)				
68	Manganese as Mn	mg/L	BDL(DL 0.05)							BDL(DL 0.05)				
69	Nickel as Ni	mg/L	BDL(DL 0.05)							BDL(DL 0.05)				
70	Selenium as Se	mg/L	BDL(DL 0.01)							BDL(DL 0.01)				
71	Barium as Ba	mg/L	BDL(DL 0.1)							BDL(DL 0.1)				
72	Silver as Ag	mg/L	BDL(DL 0.01)							BDL(DL 0.01)				
73	Molybdenum as Mo	mg/L	BDL(DL 0.01)							BDL(DL 0.01)				
74	Octane	µg/L	140	149	156	164	169	151	146	141	166	181	170	162
75	Nonane	µg/L	BDL(DL 0.1)							BDL(DL 0.1)				
76	Decane	µg/L	BDL(DL 0.1)							BDL(DL 0.1)				
77	Undecane	µg/L	6.5	7.2	7.8	8.6	8.1	6.2	7	7	7.3	8.5	8	7.1
78	Tridecane	µg/L	BDL(DL 0.1)							BDL(DL 0.1)				
79	Tetradecane	µg/L	BDL(DL 0.1)							BDL(DL 0.1)				
80	Pentadecane	µg/L	BDL(DL 0.1)							BDL(DL 0.1)				
81	Hexadecane	µg/L	BDL(DL 0.1)							BDL(DL 0.1)				

Location		CB - 1 Bottom Water							CB - 2 Bottom Water					
Month & Year		Unit	Oct - 18	Nov - 18	Dec-18	Jan-19	Feb-19	Mar-19	Oct - 18	Nov - 18	Dec-18	Jan-19	Feb-19	Mar-19
S.No.	Parameters													
82	Heptadecane	µg/L	BDL(DL 0.1)						BDL(DL 0.1)					
83	Octadecane	µg/L	BDL(DL 0.1)						BDL(DL 0.1)					
84	Nonadecane	µg/L	BDL(DL 0.1)						BDL(DL 0.1)					
85	Elcosane	µg/L	BDL(DL 0.1)						BDL(DL 0.1)					
86	Primary Productivity	mg C/m ³ /hr	8.02	8.96	8.09	8.56	8.91	8.42	9.55	9.13	9.74	9.12	9.46	8.91
87	Chlorophyll a	mg /m ³	4.4	6.01	6.76	6.99	7.45	8.01	4.27	5.79	7.12	8.05	8.27	7.43
88	Phaeophytin	mg /m ³	0.93	0.78	0.83	0.78	0.72	0.67	0.72	0.91	0.8	0.89	0.85	0.81
89	Oxidisable Paticular Organic	mg /L	4.89	6.15	7.05	7.74	7.08	7.59	5.94	6.78	6.23	6.61	6.24	6.9
PHYTOPLANKTON														
90	Bacteriastrium hyalinum	nos/ml	17	15	18	20	19	17	20	17	13	16	18	15
91	Bacteriastrium varians	nos/ml	12	9	11	15	14	13	14	18	15	19	17	12
92	Chaetoceros didymus	nos/ml	5	13	16	13	16	14	8	12	10	11	14	11
93	Chaetoceros decipiens	nos/ml	10	12	14	16	10	12	12	15	18	20	11	9
94	Biddulphia mobiliensis	nos/ml	15	17	13	11	9	10	17	11	14	15	16	13
95	Ditylum brightwellii	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
96	Gyrosigma sp	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
97	Cladophyxis sps	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
98	Coscinodiscus centralis	nos/ml	9	14	18	14	17	15	16	19	11	12	8	14
99	Coscinodiscus granii	nos/ml	11	16	12	19	15	11	20	23	19	22	19	16
100	Cylcotella sps	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
101	Hemidiscus hardmanianus	nos/ml	6	5	9	12	18	10	10	13	7	8	9	6
102	Laudaria annulata	nos/ml	16	7	10	7	11	15	12	8	11	10	7	10
103	Pyropacus horologicum	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
104	Pleurosigma angulatum	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
105	Leptocylindrus danicus	nos/ml	11	14	17	21	14	16	7	10	12	17	20	17
106	Guinardia flaccida	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
107	Rhizosolenia alata	nos/ml	8	11	15	13	20	18	19	21	16	10	13	15
108	Rhizosolenia impricata	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
109	Rhizosolenia semispina	nos/ml	19	10	8	10	12	7	14	11	9	11	20	21
110	Thalassionema nitzschioides	nos/ml	17	11	13	15	21	16	21	19	17	20	25	18
111	Triceratium reticulatum	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
112	Ceratium trichoceros	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
113	Ceratium furca	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
114	Ceratium macroceros	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
115	Ceracium longipes	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
ZOOPLANKTONS														
116	Acrocalanus gracilis	nos/ml	8	11	18	16	13	15	10	8	10	13	15	17
117	Acrocalanus sp	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
118	Paracalanus parvus	nos/ml	10	9	12	15	18	14	8	10	15	17	19	15
119	Eutintinus sps	nos/ml	13	15	17	19	15	12	11	14	8	11	16	13
120	Centropages furcatus	nos/ml	12	14	11	10	12	10	15	17	14	12	11	9
121	Corycaeus dana	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
122	Oithona brevicornis	nos/ml	7	10	13	17	14	16	14	19	12	15	20	18
123	Euterpina acutifrons	nos/ml	15	17	9	11	19	13	9	12	16	18	12	16
124	Metacalanus aurivilli	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
125	Copipod nauplii	nos/ml	14	8	14	12	16	11	12	7	9	14	17	20
126	Cirripede nauplii	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
127	Bivalve veliger	nos/ml	16	19	15	13	17	19	20	22	17	15	10	14
128	Gastropod veliger	nos/ml	11	16	10	16	10	17	13	15	11	19	17	10

SEA SEDIMENT															
Location		CB - 1 Sea Sediment							CB - 2 Sea Sediment						
Month & Year		Unit	Oct - 18	Nov - 18	Dec-18	Jan-19	Feb-19	Mar-19	Oct - 18	Nov - 18	Dec-18	Jan-19	Feb-19	Mar-19	
S.No.	Parameters														
1	Total organic matter	%	0.41	0.49	0.55	0.61	0.50	0.47	0.45	0.51	0.47	0.53	0.6	0.55	
2	% Sand	%	24	28	31	27	25	23	30	27	29	25	22	26	
3	%silt	%	30	25	20	22	20	21	28	22	25	23	28	22	
4	%Clay	%	46	47	49	51	55	56	42	51	46	52	50	52	
5	Iron (as Fe)	mg/kg	15.9	18.1	15.2	16.7	14.2	15.8	10	12.5	10.8	11.4	13.1	16.4	
6	Aluminium (as Al)	mg/kg	12947	11096	10542	10126	10917	11146	13102	12348	11543	11086	10439	10953	
7	Chromium (as cr)	mg/kg	44	53	47	39	44	40	47	52	60	55	48	42	
8	Copper (as cu)	mg/kg	50	65	74	65	60	65	61	74	77	84	71	79	
9	Manganese (as Mn)	mg/kg	393	301	278	286	306	340	412	319	302	317	320	361	
10	Nickel (as Ni)	mg/kg	11.8	13.6	11.3	12.8	15.7	12.8	13.4	14.6	15.7	16.2	17.4	14.6	
11	Lead (as Pb)	mg/kg	35	27	25	29	32	29	48	51	44	40	39	33	
12	Zinc (as Zn)	mg/kg	225	298	270	291	245	238	270	247	239	259	261	250	
13	Mercury(as Hg)	mg/kg	0.39	0.43	0.38	0.32	0.38	0.44	0.44	0.4	0.46	0.41	0.45	0.51	
14	Total phosphorus as P	mg/kg	121	135	124	117	121	132	136	139	132	139	130	140	
15	Octane	mg/kg	BDL(DL 0.1)							BDL(DL 0.1)					
16	Nonane	mg/kg	BDL(DL 0.1)							BDL(DL 0.1)					
17	Decane	mg/kg	BDL(DL 0.1)							BDL(DL 0.1)					
18	Undecane	mg/kg	0.4	0.42	0.46	0.53	0.56	0.5	0.3	0.35	0.31	0.37	0.47	0.59	
19	Dodecane	mg/kg	BDL(DL 0.1)							BDL(DL 0.1)					
20	Tridecane	mg/kg	BDL(DL 0.1)							BDL(DL 0.1)					
21	Tetradecane	mg/kg	BDL(DL 0.1)							BDL(DL 0.1)					
22	Phntadecane	mg/kg	BDL(DL 0.1)							BDL(DL 0.1)					
23	Hexadecane	mg/kg	BDL(DL 0.1)							BDL(DL 0.1)					
24	Heptadecane	mg/kg	BDL(DL 0.1)							BDL(DL 0.1)					
25	Octadecane	mg/kg	BDL(DL 0.1)							BDL(DL 0.1)					
26	Nonadecane	mg/kg	BDL(DL 0.1)							BDL(DL 0.1)					
27	Elcosane	mg/kg	BDL(DL 0.1)							BDL(DL 0.1)					
I. Nematoda															
28	Oncholaimussp	nos/m ²	15	17	14	15	11	14	18	15	11	13	15	11	
29	Tricomasp	nos/m ²	10	13	16	18	16	16	14	10	14	17	20	18	
II. Foraminifera															
30	Ammoniaebecarii	nos/m ²	8	11	10	13	19	18	11	13	16	14	18	12	
31	Quinquilinasp	nos/m ²	20	24	21	17	15	12	17	19	12	19	11	15	
32	Discorbinellasp.,	nos/m ²	13	18	15	11	10	8	15	20	17	15	17	10	
33	Bolivinaspathulata	nos/m ²	9	12	17	19	14	17	12	9	13	18	12	14	
34	Elphidiumsp	nos/m ²	17	10	12	14	12	10	20	14	10	12	16	21	
35	Noniondepressula	nos/m ²	21	15	18	23	20	15	16	12	15	16	13	17	
III. Molluscs-Bivalvia															
36	Meretrixveligers	nos/m ²	19	16	19	16	18	22	22	17	21	17	9	13	
37	Anadoraveligers	nos/m ²	24	22	13	10	17	13	21	25	28	15	19	16	
	Total No. of individuals	nos/m ²	156	158	155	156	152	145	166	154	157	156	150	147	
	Shanon Weaver Diversity Index		2.24	2.27	2.28	2.27	2.28	2.27	2.28	2.26	2.25	2.29	2.27	2.28	



TAMILNADU POLLUTION CONTROL BOARD

Annexure-4



CONSENT ORDER NO. 1808215430679

DATED: 17/09/2018.

PROCEEDINGS NO.T1/TNPCB/F.0420GMP/RL/GMP/A/2018

DATED: 17/09/2018

SUB: Tamil Nadu Pollution Control Board - RENEWAL OF CONSENT -M/s. MARINE INFRASTRUCTURE DEVELOPER PRIVATE LIMITED , S.F.No. 14-18B, 15, 168-1&2, 169, 170-1&2, 171-1&2, 172-1&2, 173-1&2, 174, 175, 176, 177, 178-1,2,3&4,179-1, 2, 3&4, 180, 181, 182, 183, 184-1, 2&3, 186, 187, 188-1, 2A, 2B& 2C,189, 190,191, 192-1 & 2, 193-1, 2, 3 & 4, 194, 195, 196, 197-1,2&3, 199, 200-1&2, 202-1&2, 203, 206-1,2A,2B,3,4A&4B, 207-2B, 208-2, 209-1,2&3, 210-1&2, 211-1,2,3,4,5,6&7, 212, 213, 214-1,2,3&4,215-1&2,216,217,218-1,2,3,4&5,219-1&2,220, 223-1&2, 224-1,2,3,4&5, 225, 226, 227, 228-1,2,3,4& 5, 229, 230, 231-1,2,3,4&5, 232, 233-1,2,3&4, 234-1,2,3&4, 235-1B, 2-3B, 236-3B, 4, 242-1&2, 243-2B, 244-2, 247-1, 248-1&2, 249-1A2,2B, 198-1, 205-1A,1B,2,5, 1 (part)-4A1 Pt,4A2,4B Pt,5 Pt, 11 (part), 16 (part)-1&2,17 (part)-1, 2, 3A&3B ,143 (part), 151 (part)-1,2,3&4,152 (part), 153 (part), 154 (part)-1&2, 166 (part), 167 (part)-1&2, 204(part)-1,2&3, 221(part), 222 (part)-1&2, 330 (part)-1,2,3&4, 12 (Part),16-3, 198-2, 201, 205-3, 205-4, KATTUPALLI village, Ponneri Taluk and Tiruvallur District - Renewal of Consent for the operation of the plant and discharge of emissions under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) -Issued- Reg.

REF: 1. PROCEEDINGS NO.T5/TNPCB/F.0661AMB/RL/AMB/W&A/2017 DATED: 09/02/2017.
2. IR.No : F.0420GMP/RL/AE/GMP/2018 dated 16/08/2018.

RENEWAL OF CONSENT is hereby granted under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) (hereinafter referred to as “The Act”) and the rules and orders made there under to

The Chief Executive Officer

M/s.MARINE INFRASTRUCTURE DEVELOPER PRIVATE LIMITED,

S.F.No. 14-18B, 15, 168-1&2, 169, 170-1&2, 171-1&2, 172-1&2, 173-1&2, 174, 175, 176, 177, 178-1,2,3&4,179-1, 2, 3&4, 180, 181, 182, 183, 184-1, 2&3, 186, 187, 188-1, 2A, 2B& 2C,189, 190,191, 192-1 & 2, 193-1, 2, 3 & 4, 194, 195, 196, 197-1,2&3, 199, 200-1&2, 202-1&2, 203, 206-1,2A,2B,3,4A&4B, 207-2B, 208-2, 209-1,2&3, 210-1&2, 211-1,2,3,4,5,6&7, 212, 213, 214-1,2,3&4,215-1&2,216,217,218-1,2,3,4&5,219-1&2,220, 223-1&2, 224-1,2,3,4&5, 225, 226, 227, 228-1,2,3,4& 5, 229, 230, 231-1,2,3,4&5, 232, 233-1,2,3&4, 234-1,2,3&4, 235-1B, 2-3B, 236-3B, 4, 242-1&2, 243-2B, 244-2, 247-1, 248-1&2, 249-1A2,2B, 198-1, 205-1A,1B,2,5, 1 (part)-4A1 Pt,4A2,4B Pt,5 Pt, 11 (part), 16 (part)-1&2,17 (part)-1, 2, 3A&3B ,143 (part), 151 (part)-1,2,3&4,152 (part), 153 (part), 154 (part)-1&2, 166 (part), 167 (part)-1&2, 204(part)-1,2&3, 221(part), 222 (part)-1&2, 330 (part)-1,2,3&4, 12 (Part),16-3, 198-2, 201, 205-3, 205-4, KATTUPALLI village, Ponneri Taluk, Tiruvallur District.

Authorizing the occupier to operate the industrial plant in the Air Pollution Control Area as notified by the Government and to make discharge of emission from the stacks/chimneys.

This is subject to the provisions of the Act, the rules and the orders made there under and the terms and conditions incorporated under the Special and General conditions stipulated in the Consent Order issued earlier and subject to the special conditions annexed.

This RENEWAL OF CONSENT is valid for the period ending March 31, 2019

POLLUTION PREVENTION PAYS



TAMILNADU POLLUTION CONTROL BOARD

R. KANNAN

Digitally signed by R.
KANNAN
Date: 2018.09.21
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**For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai**



TAMILNADU POLLUTION CONTROL BOARD

SPECIAL CONDITIONS

1. This renewal of consent is valid for operating the facility for the manufacture of products (Col. 2) at the rate (Col. 3) mentioned below. Any change in the products and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
Product Details			
1.	Containers	1.8	Million TEU / Annum (21.60 MTPA)
2.	Ro-R0 (Nos) (Automobiles)	149899	Nos / Annum (0.22 MTPA)
3.	Project Cargo	440000	MT / Annum (0.44 MTPA)
4.	Breakbulk / General Cargo (Barytes/Gypsum/Limestone/Granite/Steel Cargo)	1820000	MT / Annum (1.82 MTPA)

2. This renewal of consent is valid for operating the facility with the below mentioned emission/noise sources along with the control measures and/or stack. Any change in the emission source/control measures/change in stack height has to be brought to the notice of the Board and fresh consent/Amendment has to be obtained.

I Point source emission with stack :				
Stack No.	Point Emission Source	Air pollution Control measures	Stack height from Ground Level in m	Gaseous Discharge in Nm3/hr
1	DG Set 2000 KVA	Acoustic enclosures with stack	34	
2	DG Set 2000 KVA	Acoustic enclosures with stack	34	
II Fugitive/Noise emission :				
Sl. No.	Fugitive or Noise Emission sources	Type of emission	Control measures	
1.	DG Set 2000 KVA-2 nos	Noise	Acoustic Enclosures are Provided	

POLLUTION PREVENTION PAYS



TAMILNADU POLLUTION CONTROL BOARD

Additional Conditions:

1. The unit shall operate and maintain the APC measures efficiently and continuously so as to satisfy the Ambient Air Quality / emission standards prescribed by the Board.
2. The unit shall adhere to the Ambient Noise Level standards prescribed by the Board.
3. The unit shall provide one Continuous Ambient Air Quality Monitoring station for the parameters PM 10, PM 2.5 and VOC and shall connect the same to the care Air Centre, TNPCB, Gunidy.
4. The unit shall utilize the Power obtained from the DG Sets for captive use only and shall not supply Power to Grid.
5. The unit shall have the Environmental Management Cell with full fledged laboratory facilities and qualified trained staff with environmental policy for regular monitoring of stack emission and ambient air quality and implementation of environmental management system and to preserve the ecology of that locality.
6. The unit shall ensure that the internal roads shall be paved with concrete/bitumen and provided with water sprinkling arrangement to arrest dust, and the speed of vehicles less than 10 km/hr so as to ensure ambient air quality standards
7. The unit shall liable to pay the consent fee and shall remit the difference in amount in case of any revision of consent fee by the Government.

R. KANNAN

Digitally signed by R.
KANNAN
Date: 2018.09.21 17:43:10
+05'30'

**For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai**

To
The Chief Executive Officer,
M/s.MARINE INFRASTRUCTURE DEVELOPER PRIVATE LIMITED,
Kattupalli Port, Post box no: 001, Kattupalli Village,
Pin: 600120

Copy to:

- 1.The Commissioner, THIRUVALLUR-Panchayat Union, Ponneri Taluk, Tiruvallur District .
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, GUMMIDIPOONDI.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.
4. File



TAMILNADU POLLUTION CONTROL BOARD



CONSENT ORDER NO. 1808115430679

DATED: 17/09/2018.

PROCEEDINGS NO.T1/TNPCB/F.0420GMP/RL/GMP/W/2018

DATED: 17/09/2018

SUB: Tamil Nadu Pollution Control Board - RENEWAL OF CONSENT – M/s. MARINE INFRASTRUCTURE DEVELOPER PRIVATE LIMITED , S.F.No. 14-18B, 15, 168-1&2, 169, 170-1&2, 171-1&2, 172-1&2, 173-1&2, 174, 175, 176, 177, 178-1,2,3&4,179-1, 2, 3&4, 180, 181, 182, 183, 184-1, 2&3, 186, 187, 188-1, 2A, 2B& 2C,189, 190,191, 192-1 & 2, 193-1, 2, 3 & 4, 194, 195, 196, 197-1,2&3, 199, 200-1&2, 202-1&2, 203, 206-1,2A,2B,3,4A&4B, 207-2B, 208-2, 209-1,2&3, 210-1&2, 211-1,2,3,4,5,6&7, 212, 213, 214-1,2,3&4,215-1&2,216,217,218-1,2,3,4&5,219-1&2,220, 223-1&2, 224-1,2,3,4&5, 225, 226, 227, 228-1,2,3,4& 5, 229, 230, 231-1,2,3,4&5, 232, 233-1,2,3&4, 234-1,2,3&4, 235-1B, 2-3B, 236-3B, 4, 242-1&2, 243-2B, 244-2, 247-1, 248-1&2, 249-1A2,2B, 198-1, 205-1A,1B,2,5, 1 (part)-4A1 Pt,4A2,4B Pt,5 Pt, 11 (part), 16 (part)-1&2,17 (part)-1, 2, 3A&3B ,143 (part), 151 (part)-1,2,3&4,152 (part), 153 (part), 154 (part)-1&2, 166 (part), 167 (part)-1&2, 204(part)-1,2&3, 221(part), 222 (part)-1&2, 330 (part)-1,2,3&4, 12 (Part),16-3, 198-2, 201, 205-3, 205-4, KATTUPALLI village, Ponneri Taluk and Tiruvallur District - Renewal of Consent for the operation of the plant and discharge of sewage and/or trade effluent under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act 6 of 1974) – Issued- Reg.

REF: 1. PROCEEDINGS NO.T5/TNPCB/F.0661AMB/RL/AMB/W&A/2017 DATED: 09/02/2017.
2. IR.No : F.0420GMP/RL/AE/GMP/2018 dated 16/08/2018.

RENEWAL OF CONSENT is hereby granted under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act, 6 of 1974) (hereinafter referred to as “The Act”) and the rules and orders made there under to

The Chief Executive Officer

M/s.MARINE INFRASTRUCTURE DEVELOPER PRIVATE LIMITED,

S.F.No. 14-18B, 15, 168-1&2, 169, 170-1&2, 171-1&2, 172-1&2, 173-1&2, 174, 175, 176, 177, 178-1,2,3&4,179-1, 2, 3&4, 180, 181, 182, 183, 184-1, 2&3, 186, 187, 188-1, 2A, 2B& 2C,189, 190,191, 192-1 & 2, 193-1, 2, 3 & 4, 194, 195, 196, 197-1,2&3, 199, 200-1&2, 202-1&2, 203, 206-1,2A,2B,3,4A&4B, 207-2B, 208-2, 209-1,2&3, 210-1&2, 211-1,2,3,4,5,6&7, 212, 213, 214-1,2,3&4,215-1&2,216,217,218-1,2,3,4&5,219-1&2,220, 223-1&2, 224-1,2,3,4&5, 225, 226, 227, 228-1,2,3,4& 5, 229, 230, 231-1,2,3,4&5, 232, 233-1,2,3&4, 234-1,2,3&4, 235-1B, 2-3B, 236-3B, 4, 242-1&2, 243-2B, 244-2, 247-1, 248-1&2, 249-1A2,2B, 198-1, 205-1A,1B,2,5, 1 (part)-4A1 Pt,4A2,4B Pt,5 Pt, 11 (part), 16 (part)-1&2,17 (part)-1, 2, 3A&3B ,143 (part), 151 (part)-1,2,3&4,152 (part), 153 (part), 154 (part)-1&2, 166 (part), 167 (part)-1&2, 204(part)-1,2&3, 221(part), 222 (part)-1&2, 330 (part)-1,2,3&4, 12 (Part),16-3, 198-2, 201, 205-3, 205-4, KATTUPALLI Village , Ponneri Taluk , Tiruvallur District .

Authorising the occupier to make discharge of sewage and /or trade effluent.

This is subject to the provisions of the Act, the rules and the orders made there under and the terms and conditions incorporated under the Special and General conditions stipulated in the Consent Order issued earlier and subject to the special conditions annexed.

This RENEWAL OF CONSENT is valid for the period ending March 31, 2019

POLLUTION PREVENTION PAYS



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KANNAN
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POLLUTION PREVENTION PAYS



TAMILNADU POLLUTION CONTROL BOARD

SPECIAL CONDITIONS

1. This renewal of consent is valid for operating the facility for the manufacture of products/byproducts (Col. 2) at the rate (Col 3) mentioned below. Any change in the product/byproduct and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
Product Details			
1.	Containers	1.8	Million TEU / Annum (21.60 MTPA)
2.	Ro-R0 (Nos) (Automobiles)	149899	Nos / Annum (0.22 MTPA)
3.	Project Cargo	440000	MT / Annum (0.44 MTPA)
4.	Breakbulk / General Cargo (Barytes/Gypsum/Limestone/Granite/Steel Cargo)	1820000	MT / Annum (1.82 MTPA)

2. This renewal of consent is valid for operating the facility with the below mentioned outlets for the discharge of sewage/trade effluent. Any change in the outlets and the quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Outlet No.	Description of Outlet	Maximum daily discharge in KLD	Point of disposal
Effluent Type : Sewage			
1.	Sewage 1	45.0	On land for gardening
Effluent Type : Trade Effluent			

POLLUTION PREVENTION PAYS



TAMILNADU POLLUTION CONTROL BOARD

Additional Conditions:

1. The unit shall operate and maintain the Sewage Treatment Plant efficiently and continuously so as to satisfy the standards prescribed by the Board.
2. The unit shall utilize the treated sewage on its own land for gardening purposes thereby developing green belt.
3. The unit shall analyze the sewage effluent in the TNPCB laboratory and furnish the report periodically.
4. The unit shall ensure that no trade effluent shall be generated from their activity under any circumstances.
5. The unit shall not stake the material Barytes/Gypsum/ Limestone/Steel Cargo in the open yard under any circumstances.
6. The unit shall not carry out any capital dredging under any circumstances.
7. The unit shall ensure that the operation of the port activity will not create any impact on the livelihood of the fishermen.
8. The unit shall ensure that the operation of port activity shall not create any adverse effect on the marine eco system or marine water quality of the sea water intake point of M/s. Chennai Water Desalination Plant.
9. The unit shall ensure that the operation activity of the unit shall not create any hindrances to the Kattupalli village under any circumstances.
10. The unit shall ensure that no oil spill shall occur in the marine coastal areas due to the operation activities.
11. The unit shall comply with the provisions under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
12. The unit shall adhere to the conditions as stipulated in the Letter No.: 10 – 130 / 2007 – IA.III, Dated: 03.07.2009 , 17.12.2014, 12.05.2010 and 09.02.2018 issued by the Ministry of Environment, Forests and Climate Change, Government of India.
13. The unit shall develop green belt of 25 % of plot area (400 trees/Hec) comprising of tall trees (min.2m height) and various species according to local soil conditions I consultation with local DFO / Horticulture Department / Authorised Consultant and shall furnish the proposal for the same along with the layout map indicating the existing and proposed green belt details within six months.
14. The Port shall ensure that the dredged material arising from dredging operations shall not be dumped in the areas attracting CRZ Notification and the material shall be used for further beneficial use.
15. The Port shall have containment Boom facility with skimmer to contain and recover the spillages of Liquid Cargo in to the sea if any.
16. The Port shall ensure that the dredged material shall not be dumped in the areas attracting CRZ Notification and the material shall be used for further beneficial use.
17. The unit shall maintain the water quality of Marine Sea so as to meet the Marine Water quality prescribed for Harbour Sea Water and ensure that the marine water quality is monitored at regular intervals by engaging competent agencies.
18. The port shall ensure that there shall be no spillage of Marine Liquid in the sea while unloading from ship to pipelines/Road Vessels
19. The unit shall furnish carry out impact assessment study once in a year with respect to marine and land environment and the report shall be furnished to Board.
20. The Port shall ensure that adequate oil spill response equipment shall be made available as per the Appendix B of the Tamil Nadu State Oil Spill Disaster Contingency Plan, September 2016.
21. The Port shall ensure participation in the oil spill combating training along with the State Agencies such as Tamil Nadu Maritime Board organized by the Indian Coast Guard time to time.
22. The port shall ensure the formation and regular functioning of dedicated Environment Cell and Oil Spill Contingency Response Cell in order to have timely response to incidents of oil spill and any other contingency in the Port area.
23. Continuous monitoring of the marine environment shall be under taken by an institute like Faculty of Marine Biology, Annamalai university and to furnish a report to the Board every 6 months.
24. The unit shall not use 'use and throwaway plastics' such as plastic sheets used for food wrapping, spreading on dining table etc., plastic plates, plastic coated tea cups, plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastic flags irrespective of thickness, within the industry premises. Instead it shall encourage use of eco friendly alternative such as banana leaf, areca nut palm plate, stainless steel, glass, porcelain plates/cups, cloth bag, Jute bag etc.,
25. The unit shall furnish exact green belt area ear marked/developed in the unit premises and furnish photographs along with latitude and longitude co-ordinates.
26. The unit shall liable to pay the consent fee and shall remit the difference in amount in case of any revision of consent fee by the Government.



TAMILNADU POLLUTION CONTROL BOARD

Digitally signed by R. KANNAN
Date: 2018.09.21 17:44:03
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For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

Taluk, Tiruvallur District .

To
The Chief Executive Officer,
M/s.MARINE INFRASTRUCTURE DEVELOPER PRIVATE LIMITED,
Kattupalli Port, Post box no: 001, Kattupalli Village,
Pin: 600120

Copy to:

- 1.The Commissioner, THIRUVALLUR-Panchayat Union, Ponneri
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, GUMMIDIPOONDI.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.
4. File

சென்னை

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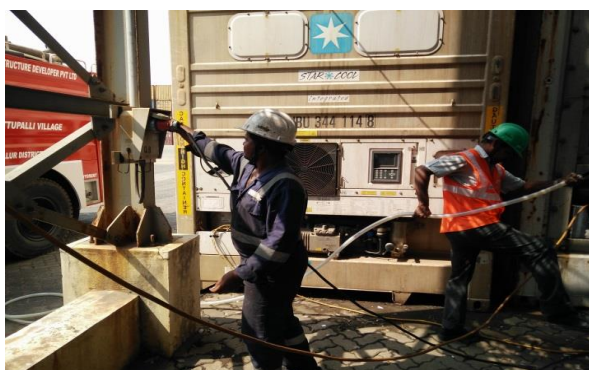
POLLUTION PREVENTION PAYS

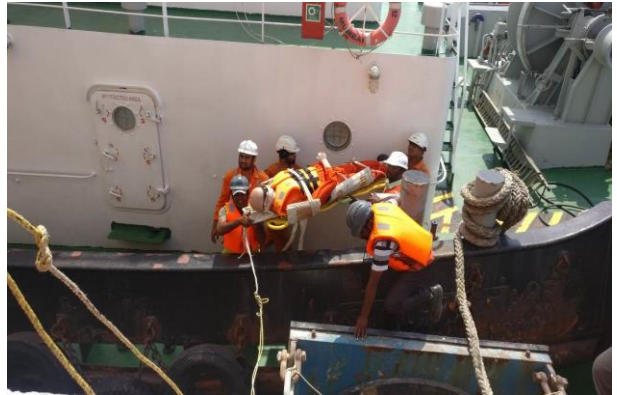
Annexure – 5**Compliance to Tamil Nadu Coastal Zone Management Authority (TNCZMA) vide letter no. 6064/EC.3/2014-1 dated 26.06.2014**

Sl. No	Conditions	Compliance
i	The unit shall compliance with all the conditions stipulated in Environment Clearance issued in No. 10-130/2007-IA-III, Ministry of Environment & Forest, Government of India, dated 3rd July 2009	Being complied
ii	The proposed activities should not cause coastal erosion and alter the beach configuration. The shoreline changes shall be monitored continuously	<p>This EC is just a bifurcation of original EC of LTSB. In past, LTSB has been continuously monitoring shoreline studies through Institute of Ocean Management, Anna University, Chennai.</p> <p>Further, MIDPL also engaged Institute of Ocean Management, Anna University, Chennai. for shoreline studies of the concerned area.</p>
iii	Chemical waste generated and the sewage generated, if any should not be discharged in to the sea and shall be properly handled	<p>Complied</p> <p>No chemical waste generated. Sewage waste water generated is being treated in STP for further usage in horticulture / greenbelt</p>
iv	The waste water generated shall be collected, treated and reused properly	<p>Complied.</p> <p>Domestic waste water generated is being treated in STP. Treated water is being reused for Horticulture / green belt purpose</p>
v	The proponent shall implement oil spill mitigation measures without fail	<p>Complied.</p> <p>Oil Spill contingency plan (OSCP) is being implemented at site. OSCP along with list of Oil spill control equipment already submitted.</p>
vi	Disaster management plan shall be implemented and mock drills shall be carried out properly and periodically.	<p>Complied</p> <p>MIDPL has already formulated detailed Disaster Preparedness & Management Plan to handle any Natural and industrial hazards at site.</p> <p>Regular Mock Drills are conducted as per the Crisis Management Plan. The details of drills conducted towards dock safety for the period Oct-2018 to Mar-2019 is enclosed as Annexure- 6.</p>

Mock Drills Oct-2018 to Mar-2019

S.No.	Date	Time	Scenario	Participants
1	24.10.18	13:30	Gardening Staff got Snake Bite in front of PAB.	19
2	13.01.19	11:08	Electrical cable short circuit at refer yard	17
3	24.01.19	12:00	Emergency fire evacuation from Port operations building	63
4	04.02.19	15:02	Fire in dry grass at backside of container scanner building	19
5	10.02.19	12:56	A Lasher working nearby bollard no.4 accidently slipped and fell into the water	25
6	31.03.19	15:55	Smoke at out gate of customs building Electrical panel room	10





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PUBLIC NOTICE

M/s L & T Shipbuilding Limited
Ground Floor, TG-1 Building, L&T Construction Complex, Mount Pooneri Road, Marapakkam, Chennai - 600 085 (Tamil Nadu)

NOTICE FOR PUBLIC

This is to notify the general public that the bifurcation of the existing Environmental & CRZ Clearance issued vide Letter No. 10-130/2007-IA.III dated July 03, 2009 in favour of M/s L & T Shipbuilding Limited (Joint venture of L&T and TIDCO) for the development of Shipyard-cum-Minor Port Complex at Kattupalli, Ponneri Taluk, Tiruvallur District/Tamil Nadu in to L&T Shipbuilding Limited (LTSB) and Marine Infrastructure Developer Private Limited (MIDPL) has been granted under the EIA Notification 2006 (as amended) and CRZ Notification 2011 (as amended) by Ministry of Environment, Forest and Climate Change (IA-III Division) vide their letter no. F. No.10-130/2007-IA.III dated February 09, 2018.

The copy of the above letter of Environment and CRZ Clearances is available with the Tamil Nadu Pollution Control Board (TNPCB) and may also be seen at website of MoEF&CC at <http://envfor.nic.in>

Date: February 19, 2018

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FINANCE

PUBLIC NOTICE

M/s Marine Infrastructure Developer Private Limited
Ground Floor, TG-1 Building, L&T Construction Complex, Mount Pooneri Road, Marapakkam, Chennai - 600 085 (Tamil Nadu)

NOTICE FOR PUBLIC

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Date: February 19, 2018

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மேல் பகுதி 9 கல்வெட்டுகள் எண் 10-130/2007-IA/III/ 03.07.2009ல்
மேலாங்கல், சென்னை - 600 069 (தமிழ்நாடு)
பொது அறிவிப்பு
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மற்றும் டி.கே. நிறுவனத்திற்கு கடிதம்
எண்.10-130/2007-IA/III/ 03.07.2009ல்
தமிழ்நாடு திருவள்ளூர் மாவட்டம்
பொன்னேரி தாலுக்கா, காட்டுப்
பள்ளியில் கப்பல் கட்டுமானம்
மேம்படுத்துதல் மற்றும் துறைமுக
வளாகம் அமைப்பது சம்மந்தமாக
சுற்றுமூலம் மற்றும் CRZ வழங்கிய
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லிமிடெட் லிமிடெட் (LTSE) மற்றும்
மனை இன்பிராஸ்ட்ரக்சர் டெவலப்மன்ட்
பிரைவேட் லிமிடெட் (MIDPL) என்கிற
நிறுவனங்களுக்கு வழங்கப்பட்டு மேற்படி
ஆணை சுற்றுமூலம் மற்றும் காடு /
பருவநிலை மற்றும் (IA-III பிரிவின்படி)
அனுமதிக்கப்பட்ட, EIA 2006 (திருத்தப்பட்ட)
மற்றும் CRZ 2011 (திருத்தப்பட்ட)
படிவங்களின்படி அறிவிக்கப்பட்டு கடிதம்
எண். F.No.10-130/2007-IA/III/ 03.02.2018
வழங்கப்பட்டுள்ளது.

மேற்குறிப்பிட்ட சுற்றுமூலம் மற்றும் CRZ
அனுமதி கடிதம் நகல் தமிழ்நாடு மாசு
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MoEF&CCல் உள்ள <http://envfor.nic.in>
என்ற வலை தளத்திலும் தெரிவிக்கப்
பட்டுள்ளது.
தேதி 19.2.2018

மனை இன்பிராஸ்ட்ரக்சர் டெவலப்மன்ட் லிமிடெட்
தலைநகரம் TC-1 கட்டிடம்,
மேல் பகுதி 9 கல்வெட்டுகள் எண் 10-130/2007-IA/III/ 03.07.2009ல்
மேலாங்கல், சென்னை - 600 069 (தமிழ்நாடு)
பொது அறிவிப்பு
எல் அண்டு டி லிமிடெட் லிமிடெட்
(கூட்டு நிறுவனமான எல் அண்டு டி
மற்றும் டி.கே. நிறுவனத்திற்கு கடிதம்
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PUBLIC NOTICE

M/s L & T Shipbuilding Limited
Ground Floor, TC-1 Building, L&T Construction Complex,
Mount Poonamallee Road, Managakkam, Chennai - 600 069 (Tamil Nadu)
NOTICE FOR PUBLIC
This is to notify the general public that
the bifurcation of the existing
Environmental & CRZ Clearance issued
vide Letter No. 10-130/2007-IA.III dated
July 03, 2009 in favour of M/s L & T
Shipbuilding Limited (Joint venture of
L&T and TIDCO) for the development of
Shipyard-cum-Minor Port Complex at
Kattupalli, Ponneri Taluk, Tiruvallur
District Tamil Nadu in to L&T
Shipbuilding Limited (LTSE) and
Marine Infrastructure Developer Private
Limited (MIDPL) has been granted
under the EIA Notification 2006 (as
amended) and CRZ Notification 2011
(as amended) by Ministry of
Environment, Forest and Climate
Change (IA-III Division) vide their letter
no. F. No.10-130/2007-IA.III dated
February 09, 2018.
The copy of the above letter of
Environment and CRZ Clearances is
available with the Tamil Nadu Pollution
Control Board (TNPCB) and may also be
seen at website of MoEF&CC at
<http://envfor.nic.in>
Date: February 19, 2018

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PUBLIC NOTICE **PEST CONT**

M/s Marine Infrastructure Developer Private Limited
Ground Floor, TC-1 Building, L&T Construction Complex,
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Date: February 19, 2018

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