

MIDPL/TNPCB/2020-21/32

Date: 21/09/2020

To,
The Member Secretary,
Tamil Nadu Pollution Control Board,
76, Mount Salai,
Guindy,
Chennai – 600 032

Dear Sir,

Sub: Submission of Environmental Statement (Form V) for the financial year ending 31st March, 2020 of Marine Infrastructure Developer Private Limited, Kattupalli Port, Chennai

Ref: 1. Consent Order No. 1907125448424 under Water Act dated 05.07.2019
2. Consent Order No. 1907225448424 under Air Act dated 05.07.2019

With reference to the captioned subject and cited references above, we submit herewith the Environmental Statement of **M/s Marine Infrastructure Developer Private Limited**, in Form-V prescribed under Rule 14 of the Environment (Protection) Rules 1986 for the financial year ending 31st March 2020.

Submitted for your kind information and records.

Thanking you,

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

Jai Khurana
21-09-2020
Jai Khurana
Director



Enclosures: As above

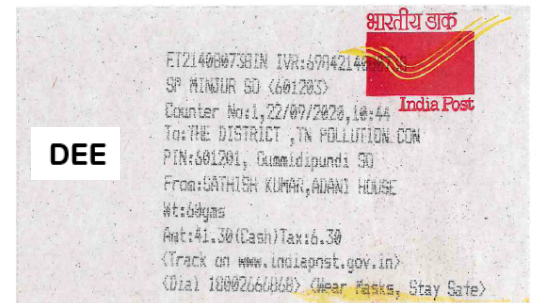
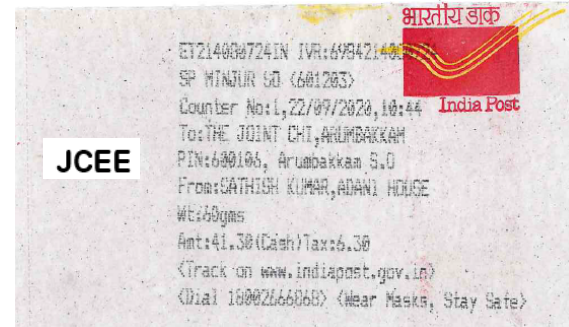
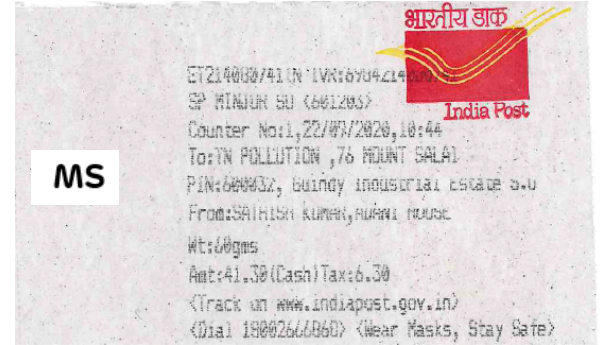
Copy To:

- 1) The Joint Chief Environmental Engineer, Tamilnadu Pollution Control Board, First Floor, 950/1, Poonamallee High Road, Arumbakkam, Chennai-600 106
- 2) The District Environmental Engineer, Tamil Nadu Pollution Control Board, Gummidipoondi – 601201.

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

Tel +91 44 2824 3062

CIN: U74999TN2016PTC103769



Sathish Kumar R

From: Sathish Kumar R
Sent: 21 September 2020 12:32
To: 'ecompliance-tn@gov.in'
Cc: Jai Khurana; Milind Sangtiani; Vijayasankar K; Prasanth A
Subject: Submission of Environmental Statement (Form V) for the financial year ending 31st March, 2020 of Marine Infrastructure Developer Private Limited, Kattupalli Port, Chennai - Reg
Attachments: MIDPL - FORM V - FY19-20.pdf
Importance: High

Dear Sir / Madam,

With reference to the captioned subject, we submit herewith the Environmental Statement of **M/s Marine Infrastructure Developer Private Limited, Kattupalli Port, Chennai** in Form-V prescribed under Rule 14 of the Environment (Protection) Rules 1986 for the financial year ending 31st March 2020.

Submitted for your kind information and records.

Thanks and Regards

Sathish Kumar R

Head - Environment

Marine Infrastructure Developer Private Limited | Adani Ennore Container Terminal Private Limited |
Adani Vizag Coal Terminal Private Limited | Adani Mormugao Port Terminal Private Limited |

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adani

Growth
with
Goodness

Our Values: Courage | Trust | Commitment



Form-V

(See rule 14 of Environment (Protection) Rules, 1986)

Environmental Statement for the financial year ending 31st March 2020

Part-A

i)	Name and Address of the owner/occupier of the industry operation or process	:	Mr. Jai Khurana Director Marine Infrastructure Developer Private Limited Kattupalli Port, Kattupalli Village, Ponneri Taluk, Thiruvallur District – 600 120 Tamil Nadu, India
ii)	Industry Category	:	Primary : Red Secondary: 1065- Ports & Harbour, Jetties and Dredging Operations.
iii)	Production Capacity	:	Cargo Handling Capacity : 24.65 MMTPA <ul style="list-style-type: none">• Containers - 21.60 MTPA• Ro-Ro (automobiles) - 0.22 MTPA• Project cargo - 0.44 MTPA• Breakbulk / General Cargo (Barytes/ Gypsum/ Limestone/ Granite/ Steel Cargo) - 1.82 MTPA• Edible oil, CBFS, Base Oil, Lube Oil and Non-Hazardous Liquid Cargo - 0.57 MMTPA.
iv)	Year of establishment	:	2009 with the issue of Environmental Clearance to L&T Ship Building. Bifurcation of Environmental Clearance of L&T Ship Building to Marine Infrastructure Developer Private Limited on 09 th February 2018.
v)	Date of the last environmental statement submitted	:	Vide our Letter No. MIDPL/TNPCB/2019-20/09 dated 20.09.2019.



Part -B

WATER AND RAW MATERIAL CONSUMPTION

(i) Water Consumption

S. No	Water Consumption (m ³ / Day)	During the previous financial year (2018-2019)	During the Current financial year (2019-2020)
1.	Process	NIL	NIL
2.	Cooling	NIL	NIL
3.	Domestic	134.85	138.25

(ii) Raw Material Consumption

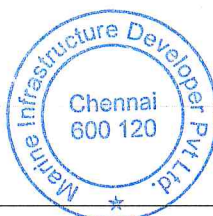
S. No	Name of the Raw Material	Name of the Product	Consumption during the financial year 2018 - 19.	Consumption during the financial year 2019 - 20.
1	Not Applicable	Not Applicable	NIL	NIL

The unit does not undergo any manufacturing process. The water consumed is mainly for Firefighting, dust suppression on roads, Green belt development and maintenance, etc.

Part-C

**POLLUTION DISCHARGE TO ENVIRONEMENT/ UNIT OF OUTPUT
(Parameters as specified in the consent issued)**

Pollutants	Quality of Pollutants Discharged (Mass/day)	Concentration of Pollutants discharges (mass/volume)	Percentage of variation from prescribed standards with reasons		
a) Water	STP Treated Water Characteristics:-				
	Parameter	Consent Limit	Actual		% Variation with prescribed standard
			30 KLD	5 KLD	
	pH	5.5-9	7.41	7.58	-Nil-
	Total Suspended Solids (mg/l)	30	17.08	17.75	-Nil-
	BOD (3 days at 27°C) (mg/l)	20	12.42	14.42	-Nil-



b) Air	DG sets are provided as standby power source and were used during power failure. The Height of DG stacks as per CPCB/TNPCB Standards. All the monitored parameters are within prescribed standards.
Particulate Matter (mg/Nm ³)	DG stack emission report is enclosed as Annexure 1 .
Sulphur Dioxide (ppm)	
Nitrogen Oxide (ppm)	

Part-D

HAZARDOUS WASTES

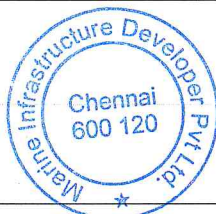
(As specified under Hazardous Waste Management and Handling Rules 1989)

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial Year (2018-19)	During the current financial Year (2019-20)
(a) From Process	<ul style="list-style-type: none"> Used oil (5.1) - 19,600 Liters Sludge and filters contaminated with oil (3.3) - 2.23 MT 	<ul style="list-style-type: none"> Cargo residue, washing water and sludge containing oil (3.1) - 50.310 T
(b) From Pollution control facilities	NA	NA

Part-E

SOLID WASTES

Total Quantity Generated			
Solid Waste		During the previous financial Year (2018-19)	During the current financial Year (2019-20)
a)	From process	NIL	NIL
b)	From pollution control facilities- STP	180 kgs	192 kgs
c)	1. Quantity recycled or reutilized within the Unit	180 kgs	192 kgs
	2. Sold	NIL	NIL
	3. Disposed	NIL	NIL



Part-F

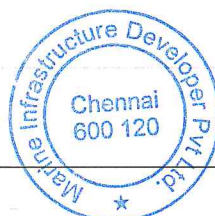
Please specify the characterization (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

- Hazardous waste includes Cargo residue, washing water and sludge containing oil . All the hazardous wastes are collected and stored properly in Integrated Waste Management Shed & are being disposed to TNPCB authorized /registered recyclers in line to Hazardous and Other Waste (Management & Transboundary Movement) Rules, 2016 (As amended).
- The used batteries and E-waste are stored in Integrated Waste Management Shed and disposed through TNPCB approved vendor.
- Hazardous waste Annual returns in Form 4 was submitted in line with the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.
- E-waste returns in Form 3 was submitted in line with the E-waste Management Rules, 2016.
- 100% utilization of STP sludge for greenbelt maintenance as manure.
- All the non-hazardous wastes like paper, wood, metal scraps generated from the port are also collected, stored in the Integrated Waste Management Shed and are handled as per 5R principle.

Part-G

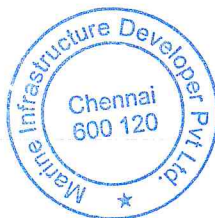
Impact on pollution control measures on conservation of natural resources and consequently on the cost of production

- Solar panels of 450 kW were installed at MIDPL and the power generated from solar panel ranges between 55,000-65,000 units per months. MIDPL has invested nearly Rs.2 Crs. for developing this solar plant there by achieved reduction of conventional energy and contributed for resource conservation.
- 15RTGs retrofitted into Electrical power driven system at the project cost of Rs.44 Crs. Key Cost benefits includes reduction in diesel consumption and emission level.
- Sewage Treatment Plants (30 KLD and 5 KLD STPs) are in continuous operation and the treated effluent water quality is meeting the TNPCB norms. STP treated water is



used for Gardening purpose, thereby reducing freshwater consumption. The total cost spent on STP operation and maintenance during the year 2019-20 is Rs. 14.49 Lakhs.

- Biogas facility was setup at MIDPL to convert the kitchen waste to useful heat energy. The biogas unit generates output of 3kg / day. The plant capacity is 6 cubic meter / day.
- Unit is undertaking Regular Environmental Monitoring in port through NABL accredited laboratory. We have also installed and operating Continuous Ambient Air Quality Monitoring Station (SO₂, NO_x, CO, PM₁₀&2.5, BTX analyser to monitor VOC) and meteorological station (Wind Speed, Wind Direction, Ambient Temperature, Atmospheric Pressure, Relative Humidity, Rainfall and Solar Radiation). Real time data of CAAQMS is connected to TNPCB server. All the monitored environmental parameters are well within the prescribed standards and the details of monitored data is regularly submitting to TNPCB, CPCB, MoEF&CC and other concerned authorities.
- All the domestic effluent generated at port is treated at existing sewage treatment plants (30 KLD and 5 KLD) and the entire treated sewage water is being reused within port premises for gardening.
- Unit is continuously developing and maintaining green belt within port premises.
- Motion sensor and timers installed at buildings to reduce energy consumption.
- Installation of water saver (water tap filter nozzles) in all wash basin taps – achieved around 4% reduction in water consumption.
- Integrated Waste Management Shed (IWMS) constructed to handle wastes as per 5R principle.
- Installed and operating Vehicle Pollution Under Control (PUC) checking facility to control vehicular emission in port premises.
- RTG Stack monitoring system implemented and achieved energy saving up to 18000 Units per year amounting to Rs. 1.35 L /Year.
- Air conditioners fitted with energy saving device.
- Street light and High mast lighting controlled by light intensity sensor.
- Carried out mass Tree Plantation of 1000 saplings through "Woodlot Planting Technique".



Part-H

Additional investment proposal for environment protection including abatement of pollution, prevention of pollution

<u>Regular Expenditure (cost in INR lakhs/year)</u>		
S. No	Description	Cost
1	Environmental monitoring of MOEF recognized third party	9.0
2	Green belt & Horticulture development	29.85
3	Annual maintenance contractor of STP operation	14.50
4	Operation & Maintenance of Integrated Waste Management System	2.40

Part-I

ANY OTHER PARTICULARS IN RESPECT TO ENVIRONMENT

- Working towards achieving "Zero Waste Inventory" as per our Group Environment Policy and all wastes are being handled in line with 5R Principle.
- Energy Conservation Committee to measure the amount of energy consumed and to actions to reduce the energy consumed through port operations
- Carried out mass Tree Plantation of 1000 saplings through "Woodlot Planting Technique".
- Water Warriors committee to identify and reduce the water consumption. The committee would propose innovative water solutions
- Integrated Management System (ISO 9001:2015, 14001:2015 and 45001:2018) certified Port
- Single use and throwaway plastics completely banned inside the port premises.

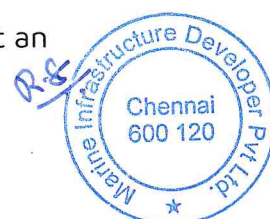
Date: 21.09.2020

(Signature of a person carrying out an industry operation or process)

Name : Jai Khurana

Designation : Director

Address : Marine Infrastructure Developer Private Limited (MIDPL)
Kattupalli Village, Ponneri Taluk,
Thiruvallur District – 600 120
Tamil Nadu, India.



MIDPL- STACK MONITORING (April'2019 to March'2020)													
Location		DG 2000KVA - 1											
Month & Year		Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20
S.No.	Parameters												
1	Stack Temperature, °C	241	247	238	245	253	259	267	253	262	269	280	269
2	Flue Gas Velocity, m/s	21.98	19.95	21.63	22.18	22.81	23.57	21.98	23.05	23.68	24.12	25.14	26.35
3	Sulphur Dioxide, mg/Nm ³	7.5	8.6	9.1	8.7	9.4	8.8	7.5	7.9	8.5	9.3	8.3	6.9
4	NOX (as NO ₂) in ppmv	180	188	175	186	195	210	226	220	231	236	248	233
5	Particular matter, mg/Nm ³	34.4	31.5	34.1	35.8	32.7	34	32.9	34.3	31	34.2	36.7	34
6	Carbon Monoxide, mg/Nm ³	76	81	87	92	98	92	87	80	87	91	98	93
7	Gas Discharge, Nm ³ /hr	5728	5139	5670	5736	5809	5935	5452	5871	5929	5961	6090	6512
MIDPL- STACK MONITORING (April'2019 to March'2020)													
Location		DG 2000KVA - 2											
Month & Year		Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20
S.No.	Parameters												
1	Stack Temperature, °C	238	243	231	240	247	252	259	250	257	261	273	260
2	Flue Gas Velocity, m/s	20.87	20.21	20.98	21.73	22.36	22.9	22.16	22.87	23.19	23.75	24.86	25.98
3	Sulphur Dioxide, mg/Nm ³	7	7.9	8.4	7.9	8.6	8	8.6	7.4	8	8.8	8	7.2
4	NOX (as NO ₂) in ppmv	175	182	170	182	191	203	214	218	225	230	242	228
5	Particular matter, mg/Nm ³	32.8	33.6	32.3	34	36.2	33.2	31.5	35.7	33.4	31.6	34.3	32.7
6	Carbon Monoxide, mg/Nm ³	79	85	89	95	90	96	91	84	89	93	96	90
7	Gas Discharge, Nm ³ /hr	5471	5246	5576	5674	5760	5843	5580	5858	5861	5957	6099	6529



B.S.