

MIDPL/TNPCB/2019- 20/09

Date: 20/09/2019

To,

**The District Environmental Engineer,**  
Tamil Nadu Pollution Control Board,  
EPIB Building, A.O Block,  
Gummidipoondi Industrial Complex,  
Gummidipoondi – 601201.

Dear Sir,

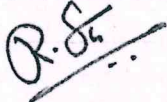
**Sub: Submission of Environmental statement (Form V) for the Financial Year 2018-19**

With reference to the captioned subject, we are herewith submitting the "Environmental Statement in Form V for the financial year 2018-19".

Submitted for your kind information and records.

Thanking you,

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



**R. Sathish Kumar**  
**Head - Environment**



Enclosures: As above



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

**Form-V**  
**(See rule 14 of Environment (Protection) Rules, 1986)**

**Environmental Statement for the financial year ending 31<sup>st</sup> March 2019**

**Part-A**

i)	<b>Name and Address of the owner/occupier of the industry operation or process</b>	:	<b>Mr. Jai Khurana</b> <b>Director</b> Marine Infrastructure Developer Private Limited Kattupalli Village, Ponneri Taluk, Thiruvallur District – 600 120 Tamil Nadu, India
ii)	<b>Industry Category</b>	:	<b>Primary</b> : Red <b>Secondary</b> : 1065 - Ports & Harbour, Jetties and Dredging Operations
iii)	<b>Production Capacity</b>	:	<b>Cargo Handling Capacity : 24.65 MMTPA</b> <ul style="list-style-type: none"> <li>• Containers 21.60 MTPA</li> <li>• Ro-Ro (automobiles) 0.22 MTPA</li> <li>• Project cargo 0.44 MTPA</li> <li>• Breakbulk / General Cargo (Barytes /Gypsum /Limestone /Granite /Steel Cargo) 1.82 MTPA</li> <li>• Edible oil, CBFS, Base Oil, Lube Oil and Non-Hazardous Liquid Cargo 0.57 MMTPA.</li> </ul>
iv)	<b>Year of establishment</b>	:	2009 with the issue of Environmental Clearance to L&T Ship Building. Bifurcation of Environmental Clearance L&T Ship Building to Marine Infrastructure Developer Private Limited on 09 <sup>th</sup> February 2018.
v)	<b>Date of the last environmental statement submitted</b>	:	Vide our Letter No. MIDPL/TNPCB/GMP/ES/2017-18 dated 10.09.2018.



## Part -B

### WATER AND RAW MATERIAL CONSUMPTION

(i) Water Consumption

S.No	Water Consumption (m <sup>3</sup> / Day)	During the Previous financial year (2017 - 18)	During the current financial year (2018 - 19)
1.	Process	NIL	NIL
2.	Cooling	NIL	NIL
3.	Domestic	121.01	134.85

(ii) Raw Material Consumption

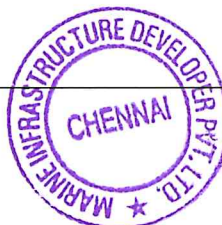
S.No	Name of the Raw Material	Name of Product	Consumption of raw material per unit of output	
			During the Previous financial year (2017 - 18)	During the current financial year (2018 - 19)
1	Not Applicable	Not Applicable	NIL	NIL

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

## PART- C

### POLLUTION DISCHARGES TO ENVIRONMENT/UNIT OF OUTPUT (Parameter 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
	pH	5.5-9	7.5	-Nil-
	Total Suspended Solids (mg/l)	30	18.7	-Nil-
	BOD (3 days at 27°C) (mg/l)	20	9.9	-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 standards.
Particulate Matter (mg/Nm <sup>3</sup> )	DG stack emission report is enclosed as <b>Annexure 1</b>
Sulphur Dioxide (ppm)	
Nitrogen Oxide (ppm)	

#### **PART- D**

##### **HAZARDOUS WASTES**

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

<b>Hazardous Wastes</b>	<b>Total Quantity (Kg)</b>	
	<b>During the previous financial year (2017-18)</b>	<b>During the current financial year (2018-19)</b>
(a) From Process	<ul style="list-style-type: none"> <li>13,040 Liters of Used oil (5.1)</li> <li>225 Kgs of Sludges &amp; Filters contaminated with oil (3.3)</li> </ul>	<ul style="list-style-type: none"> <li>19,600 Liters MT of used oil (5.1)</li> <li>2.23 MT of Sludges &amp; Filters contaminated with oil (3.3)</li> </ul>
(b) From pollution Control facilities	NA	NA

#### **PART- E**

##### **SOLID WASTES**

<b>Total Quantity Generated (MT/Annum)</b>		
<b>Solid Waste</b>	<b>During the Previous Financial Year (2017-18)</b>	<b>During the Current Financial Year ( 2018-19)</b>
(a) From Process	Nil	Nil
(b) From Pollution Control facilities - STP	145 Kg	180 Kg
(C) 1. Quantity recycled or reutilized within the unit.	145 Kg	180 Kg
2. Sold	Nil	Nil
3. Disposed	Nil	Nil





## **PART- F**

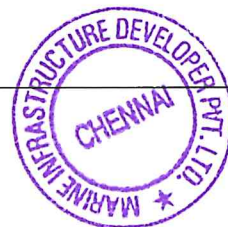
**Please specify the characterizations (in terms of composition of quantum) of Hazardous as well solid waste and indicate disposal practice adopted for both these categories of wastes.**

- Hazardous waste includes used oil and filters contaminated with oil. Used oil and the filters contaminated with oil generated during various maintenance activities were collected in barrels and kept in Integrated Waste Management Shed & disposed through TNPCB authorized recycler.
- The used batteries and E -waste also be stored in Integrated Waste Management Shed and are disposed through approved vendor.
- Hazardous waste Annual returns in Form 4 was submitted in line with the Hazardous and Other Wastes (Management & Trans boundary 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 terminal also are collected, stored in the Integrated Waste Management Shed and are handled as per 5R principle.

## **PART- G**

**IMPACT OF THE POLLUTION ABATEMENT MEASURES TAKEN ON CONSERVATION OF NATURAL RESOURCES AND 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 month. MIDPL has invested nearly Rs.2 Crs. for developing this solar plant there by achieved reduction of conventional energies
- Sewage Treatment Plants (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 during the year 2018-19 is Rs. 11 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.
- Unit is undertaking Regular Environmental Monitoring of port through NABL accredited laboratory. All the required environmental parameters are well within specified limit & the details of monitored data is regularly submitting to TNPCB, CPCB, MoEF&CC and other concerned authorities.
- All the domestic waste water generated at port is treated at existing sewage treatment plant and the treated 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.
- Implemented Integrated Waste Management System (IWMS) for managing all types of wastes in line with 5R principle.
- Installed Vehicle Pollution Under Control (PUC) checking facility.

#### **PART- H**

#### **ADDITIONAL MEASURES/INVESTMENT PROPOSAL FOR ENVIRONMENTAL PROTECTION INCLUDING ABATEMENT OF POLLUTION, PREVENTION OF POLLUTION.**

	Description	
<b><u>Regular Expenditure ( cost in INR lakhs/year)</u></b>		
1	Environmental monitoring of MOEF recognized third party	10
2	Green belt & Horticulture development	14
3	Annual maintenance contractor of STP operation	11



## **PART- I**

### **ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF ENVIRONMENT.**

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

Date: 20.09.2019

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

Name : Jai Khurana

Designation: Director

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





MIDPL- STACK MONITORING (April'2018 to March'2019)													
Location		DG 2000KVA - 1											
Month & Year		Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19
S.No.	Parameters												
1	Stack Temperature, °C	247	240	250	242	246	255	247	259	250	239	248	255
2	Flue Gas Velocity, m/s	21.96	22.63	21.98	23.01	22.56	23.06	21.86	22.39	22.87	22.12	22.96	21.26
3	Sulphur Dioxide, mg/Nm <sup>3</sup>	8.6	9.2	9.6	8.5	8.9	9.4	8.5	8.1	7.6	6.8	7.4	8.3
4	NOX (as NO <sub>2</sub> ) in ppmv	170	175	179	185	188	194	186	194	185	170	190	186
5	Particular matter, mg/Nm <sup>3</sup>	34.2	32	34.1	33.5	34.7	32	34.8	33.1	31.7	33.9	35.2	33.1
6	Carbon Monoxide, mg/Nm <sup>3</sup>	47	42	47	52	48	56	50	59	62	65	74	80
7	Gas Discharge, Nm <sup>3</sup> /hr	5657	5909	5630	5985	5823	5850	5631	5638	5858	5787	5903	5393

MIDPL- STACK MONITORING (April'2018 to March'2019)													
Location		DG 2000KVA - 2											
Month & Year		Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19
S.No.	Parameters												
1	Stack Temperature, °C	245	238	244	248	251	260	253	241	252	257	242	247
2	Flue Gas Velocity, m/s	22.83	22.12	22.76	22.14	22.91	21.98	22.51	21.06	22.03	21.34	20.83	22.31
3	Sulphur Dioxide, mg/Nm <sup>3</sup>	7.5	8	8.8	8	9.2	9.8	8.8	7.5	7.9	8.5	6.9	7.4
4	NOX (as NO <sub>2</sub> ) in ppmv	163	172	183	176	191	197	190	179	188	194	178	181
5	Particular matter, mg/Nm <sup>3</sup>	33.8	34.6	32.6	31.9	34.7	35.3	32.2	30.6	32.5	30.3	32.6	34.9
6	Carbon Monoxide, mg/Nm <sup>3</sup>	44	40	45	47	48	52	55	57	60	71	78	83
7	Gas Discharge, Nm <sup>3</sup> /hr	5904	5798	5897	5692	5856	5524	5732	5488	5621	5393	5418	5747



*Signature*

Name : M/s. Marine Infrastructure Developer Pvt Ltd  
Address: Kattupalli, Ponneri Taluk,  
Tiruvallur District – 600120.