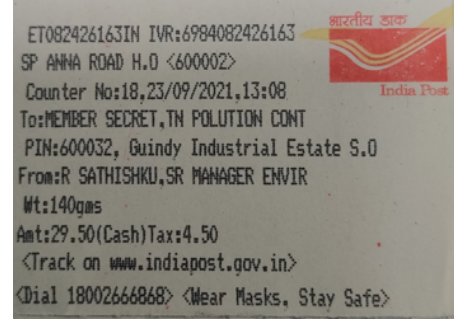


MIDPL/TNPCB/2021-22/119

Date: 23/09/2021

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

MS



Dear Sir,

Sub: Submission of Environmental Statement (Form V) for the financial year ending 31st March, 2021 of Marine Infrastructure Developer Private Limited, Kattupalli Port, Chennai

Ref: 1. Consent Order No. 2105136876761 under Water Act dated 13.09.2021
2. Consent Order No. 2105236876761 under Air Act dated 13.09.2021

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 2021.

Submitted for your kind information and records.

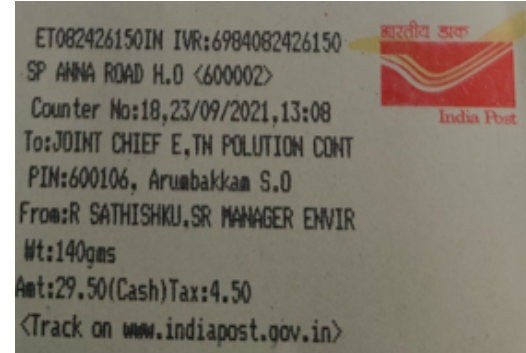
Thanking you,

JCEE

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

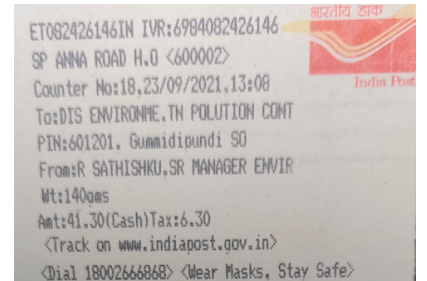
Jai Singh Khurana
Managing Director

Encl: As above



Copy To:

DEE



- 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,
Tiruvalluvar District 600 120,
Tamil Nadu, India

Tel +91 44 2824 3062

CIN: U74999TN2016PTC103769

Vijayasankar K

From: Sathish Kumar R
Sent: Thursday, September 23, 2021 1:02 PM
To: ecompliance-tn@gov.in
Cc: Jai Khurana; Milind Sangtiani; Vijayasankar K; Subramanian A
Subject: Submission of Environmental Statement (Form V) for the financial year ending 31st March, 2021 of Marine Infrastructure Developer Private Limited, Kattupalli Port, Chennai
Attachments: MIDPL Form V 2020-21 23.09.2021.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**, in **Form-V** prescribed under Rule 14 of the Environment (Protection) Rules 1986 for the financial year ending 31st March 2021.

Submitted for your kind information and records.

Thanks and Regards

R. Sathish Kumar

Head - Environment (Southern Ports) | Adani Ports and Special Economic Zone Limited |
Mob +91 91760 00959 | Direct: +91 44 2796 8177 | Extn. 69177 |
sathish.r@adani.com | www.adaniports.com |



Growth
with
Goodness

Our Values: Courage | Trust | Commitment



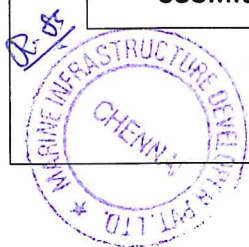
Form-V

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

Environmental Statement for the financial year ending 31st March 2021

PART - A

i) Name and Address of the owner/occupier of the industry operation or process	: Mr. Jai Singh Khurana Managing 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 MMTA <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 MMTA.
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/2020-21/32 dated 21.09.2020.



PART – B

WATER AND RAW MATERIAL CONSUMPTION

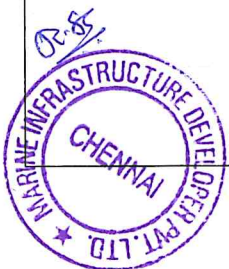
(i) Water Consumption

S. No	Water Consumption (m³/ Day)	During the previous Financial year (2019-2020)	During the Current Financial year (2020-2021)
1.	Process	NIL	NIL
2.	Cooling	NIL	NIL
3.	Domestic	138.25	124.66

(ii) Raw Material Consumption

S. No	Name of the Raw Material	Name of the Product	Consumption during the financial year 2019-20.	Consumption during the financial year 2020-21.
1	Not Applicable	Not Applicable	NIL	NIL

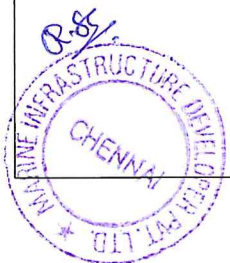
The unit does not undergo any manufacturing process. The water consumed is mainly for Firefighting, dust suppression on roads, Greenbelt development and maintenance, etc.



PART – C

POLLUTION DISCHARGE TO ENVIRONMENT/ 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	10 KLD	5 KLD	
	pH	5.5-9	7.32	7.21	7.57	-Nil-
	Total Suspended Solids (mg/l)	30	18.54	8.0	17.18	-Nil-
	BOD (3 days at 27°C) (mg/l)	20	15.27	3.0	13.68	-Nil-
b) Air	DG sets are provided as standby power source and are used during power failure only. The Height of DG stacks as per CPCB/TNPCB Standards. All the monitored parameters are well within the prescribed standards.					
Particulate Matter (mg/Nm3)	DG stack emission report is enclosed as Annexure 1.					
Sulphur Dioxide (ppm)						
Nitrogen Oxide (ppm)						



PART-D

HAZARDOUS WASTES

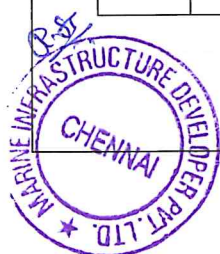
(As specified under Hazardous Waste Management and Handling Rules 1989)

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial Year (2019-20)	During the current financial Year (2020-21)
(a) From Process	<ul style="list-style-type: none">Cargo residue, washing water and sludge containing oil (3.1) - 50.310 T	<ul style="list-style-type: none">Cargo residue, washing water and sludge containing Oil (3.1)- 44.42 MTDiscarded Containers/ Barrels (33.1)- 3.57 MTUsed/Waste/ Spent Oil (5.1)- 5.4 MT
(b) From Pollution control facilities	NA	NA

PART-E

SOLID WASTES

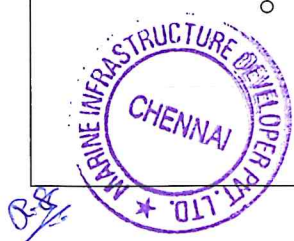
TOTAL QUANTITY GENERATED			
Solid Waste		During the previous Financial Year (2019-20)	During the current Financial Year (2020-21)
a)	From process	NIL	NIL
b)	From pollution control facilities- STP	192 kgs	168 kgs
c)	1. Quantity recycled or reutilized within the Unit	192 kgs	168 kgs
	2. Sold	NIL	NIL
	3. 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.

- **"Zero Waste to Landfill" Initiative** - No waste is being sent to landfill or incineration facility. MIDPL is having Integrated Waste Management System (IWMS) to proper segregate & recover the materials and are handled as per 5R (Reuse, Recycle, Recover and Reprocess) principle.
- MIDPL has awarded with Zero Waste to Landfill Management System (ZWTL MS 2020) from TÜV Rheinland India Pvt. Ltd (Annexure – 2).
- Hazardous waste includes Cargo residue, washing water and sludge containing oil, Discarded Containers/ Barrels and Used/Waste/ Spent 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 with the 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 vendors as per the E-waste Management Rules 2016 (as amended).
- Hazardous Waste Annual returns in Form 4 was submitted in line with the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.
- 100% utilization of STP sludge for greenbelt maintenance as manure.
- MIDPL certified as "Single Use Plastic (SUP) Free" site from CII –ITC Centre of Excellence for Sustainable Development (Annexure – 3)
- **Plastic free Drive:**
 - MIDPL has displayed stickers at various places at the facility, spreading awareness as plastic are prohibited now.

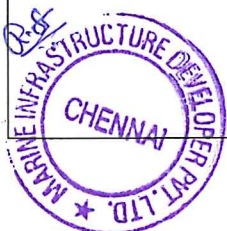


- Awareness sessions organized among department and contract workers. Made shop keepers and canteen owners to stop providing plastic carry bags to carry the material.
- Confirms to stop usage of plastic cups to serve tea and water pouches within the premises of MIDPL.
- Regular supervision by Team Members at Port Canteens for verification of prohibition of plastic.

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.
- 15 RTGs 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,10 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 2020-21 is Rs. 11.62 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



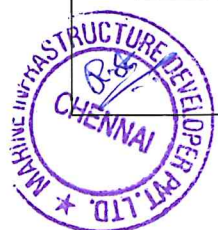
is regularly being submitting to TNPCB, CPCB, MoEF&CC and other concerned authorities.

- All the domestic effluent generated at port is treated at existing Sewage Treatment Plants (30 KLD, 10 KLD and 5 KLD) and the entire treated sewage water is being reused within port premises for gardening.
- Motion sensor and timers installed at buildings to reduce energy consumption.
- Installed and operating Vehicle Pollution Under Control (PUC) checking facility to control vehicular emission in port premises.
- RTG Container Stacking 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 "Eco Plug"
- Streetlight and High mast lighting controlled by light intensity sensor.
- 12,320 trees & 9,600 Shrubs planted as part of Greenbelt development program in the year 2020-21. Drip Line and Sprinkler Irrigation System is provided at MIDPL during the year 2020-21.

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	Comprehensive Environmental Monitoring	4.93
2	AAQ/NL/SM Survey & STP Treated Water Quality Analysis	0.48
3	Environment Studies	52.86
4	Training & Awareness program	0.20
5	Integrated Waste Management & Pollution Under Check Facility	1.85
6	O&M of STP's	11.62
7	Housekeeping	77.8
8	Greenbelt Maintenance	79.47
Total		229.2



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.
- Paperless Operation is in place (Except for Statutory requirements) using application tools and Software – Terminal Info Gateway (TIG).
- 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
- Integrated Management System (ISO 9001:2015, 14001:2015 and 45001:2018) certified Port.
- Working towards Implementation and obtaining "5S" Certification at MIDPL
- Working towards Implementing Energy Management System ISO 50001:2018
- Environmental benchmarking has been performed for GHG Emission with global ports.

Date: 23.09.2021

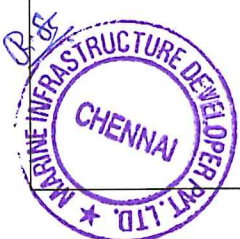
(Signature of a person carrying out an industry operation or process)

[Handwritten Signature]
23/9/21

Name : **Jai Singh Khurana**

Designation: **Managing Director**

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



MIDPL- STACK MONITORING (MAY'2020 TO MARCH'2021)													
Location		DG 2000KVA - 1											Avg
Month & Year		April'2020	May'2020	June'2020	July'2020	Aug'2020	Sep'2020	Oct'2020	Nov'2020	Dec'2020	Jan'2021	Feb'2021	March'2021
S. No.	Parameters	The sampling was not taken Due to Covid 19 lockdown											
1	Stack Temperature, °C		255	267	260	274	262	268	261	249	256	242	269
2	Flue Gas Velocity, m/s		24.98	25.44	24.25	25.37	26.01	26.94	25.68	26.92	27.42	25.96	24.12
3	Sulphur Dioxide, mg/Nm3		6.2	6.7	7.2	8.4	8.9	9.4	9	7.8	8.3	7.5	9.3
4	NOX (as NO2) in ppmv		201	219	227	236	228	235	227	217	234	221	236
5	Particulate Matter, mg/Nm3		32.1	34.5	32.8	34.1	36.8	34.1	36.1	38.4	35.1	32.9	34.2
6	Carbon Monoxide, mg/Nm3		75	86	90	95	87	92	94	87	89	80	91
7	Gas Discharge, Nm3/hr	6337	6311	6127	6213	6512	6670	6442	6908	6943	6753	5961	
MIDPL- STACK MONITORING (May'2020 to March'2021)													
Location		DG 2000KVA - 2											Avg
Month & Year		April'2020	May'2020	June'2020	July'2020	Sep'2020	Oct'2020	Nov'2020	Dec'2020	Jan'2021	Feb'2021	March'2021	
S. No.	Parameters	The sampling was not taken Due to Covid 19 lockdown											
1	Stack Temperature, °C		251	261	249	...	255	264	257	252	239	220	261
2	Flue Gas Velocity, m/s		25.12	23.98	24.98		25.53	26.27	26.09	26.92	27.51	24.43	23.75
3	Sulphur Dioxide, mg/Nm3		6.5	5.9	6.8		7.7	8.6	8	8.5	8	7.1	8.8
4	NOX (as NO2) in ppmv		209	214	218		215	232	221	223	218	210	234
5	Particulate Matter, mg/Nm3		30.9	33.1	31.7		33.4	35.9	33.2	36.2	32.4	31.9	32.9
6	Carbon Monoxide, mg/Nm3		81	83	96		83	90	93	91	78	75	88
7	Gas Discharge, Nm3/hr	6420	6015	6445	6478	6553	6594	6925	7197	6638	5957		

MIDPL- STACK MONITORING (Aug'20, Oct'20 to March'2021)									
Location		DG 125 KVA							
Month & Year		Aug'2020	Oct'2020	Nov'2020	Dec'2020	Jan'2021	Feb'2021	March'2021	Avg
S. No.	Parameters								
1	Stack Temperature, °C	420	146	140	130	124	117	124	171.57
2	Flue Gas Velocity, m/s	9.87	9.98	10.17	11.02	11.98	11.08	12.41	10.93
3	Sulphur Dioxide, mg/Nm ³	-	4.7	4.5	4.1	4.3	4	4.9	4.42
4	NOX (as NO2) in ppmv	-	85	78	70	66	54	62	69.17
5	Particulate Matter, mg/Nm ³	-	15.8	16.7	14.3	15.7	16.8	18.1	16.23
6	Carbon Monoxide, mg/Nm ³	<0.2	21	25	19	22	19	23	21.50
7	Gas Discharge, Nm ³ /hr	443	449	463	515	569	535	592	509.43



Certificate

Standard: **Zero Waste to Landfill Management System
(ZWTL MS 2020)**

Certificate Holder: **Marine Infrastructure Developer Private Limited**
Kattupalli Port, Tiruvallur - 600120
Tamil Nadu, India

Scope: **Providing Port Facilities for Handling and Storage
of Bulk Cargo, Containerized Cargo and Liquid
Terminal Operations**

Proof has been furnished by means of an audit that the
Requirements of ZWTL MS 2020 are met, with the
achievement of waste diversion rate of above 99%

Validity: This certificate is valid from 01-06-2021 until 31-05-2024
Subject to satisfactory annual surveillance audits.

Certificate No. TUV/ZWLMS/2021/Adani Ports/0502

New Delhi, 01-06-2021

TÜV Rheinland India Pvt. Ltd.
Office 610, 6th Floor, iThum
Tower, A-40, Sector-62,
Noida- 201301, India



CII-ITC Centre of Excellence
for Sustainable Development



Confederation of Indian Industry

Certificate

Single-use Plastic Free

Marine Infrastructure Developer Private Limited

Kattupalli Village, Ponneri Taluk, Tiruvallur District, Tamil Nadu 600 120. India.

This is to certify that Marine Infrastructure Developer Private Limited at the location mentioned above is Single-use Plastic Free as verified by the Confederation of Indian Industry for the period 01 April 2020 to 31 March 2021 under the provisions of the **Plastics-use Protocol: Verification and Certification (1.0)**.

PLASTICS-USE
PROTOCOL



Ms Seema Arora

Deputy Director General

Confederation of Indian Industry (CII)

Centre of Excellence for Sustainable Development (CESD)

Certificate Date: 6 May 2021

Certificate No: CII/PuP/2021/011

This certificate has been awarded after the company fulfilled the requirements for phasing-out single-use plastics and providing evidence for it. Responsibility for the data provided to CII rests solely with the company. The conditions of certification are detailed in the Annex.



CII-ITC Centre of Excellence
for Sustainable Development



Confederation of Indian Industry

Annex

The certification applies to the following single-use plastic items identified and phased out by Marine Infrastructure Developer Private Limited:

- Cutlery (knives, forks, spoons, chopsticks)
- Crockery (plates, glasses, cups) and plastic food containers
- Straws
- Stirrers
- Carry bags
- Items of decoration (polystyrene)
- Garbage bags
- Sheets for food wrapping and spreading on dining tables
- Plastic coated teacups and tumblers
- Water pouches
- Flags
- Gloves

This certification is based on the verification of data set for the period from 1 April 2020 to 31 March 2021.

Organizational Boundary: Marine Infrastructure Developer Private Limited

Operational Boundary: Administrative, canteen, kitchen and operational areas

Material Boundary: Single-use Plastics

Reference

Verification date: 8 April 2021

Verification Report No: PuP/Verification/2021/AdaniPort/003

Mode: On account of the COVID-19 pandemic, the verification process was virtual and followed provisions outlined in the Verification Procedure 1.0 of the Protocol