ISO 9001
ISO 14001
ISO 45001
ISO 50001

Ref No: KPPL/ENV/PPCC/2021/11 Date: 20.04.2021

To

The Member Secretary,

Puducherry Pollution Control Committee,

Department of Science, Technology & Environment,

Puducherry – 605 005.

Sub: Submission of Annual Environmental Statement in Form V for the Financial Year 2020-21

Respected Sir,

Please find attached an Annual Environmental Statement in Form V for the financial year ending 31st March 2021.

Thanking you.

Yours Sincerely,

(Capt. Vijay Nicodemus)
Chief Operating Officer

Encl: Annual Environmental Statement Form V: 2019-20

Cc:

The Additional Principal Chief Conservator of Forests (C),Ministry of Environment, Forest & Climate Change (MoEF&CC), Regional Office (SEZ), Ist and IInd Floor, Handloom Export Promotion Council, 34, Cathedral Garden Road, Nungambakkam, Chennai - 34

20/4/2021

Government of Puducherry
Department of Science Technology & Environment
Puducherry Pollution Control Committee
469, PHB Building, Bharathiyar Road
Nehru Nagar, Karaikal - 609 605

KARAIKAL PORT PRIVATE LIMITED
CIN: U45203PY2006PTC001945
Registered Office
Kheezhavanjoor Village, T.R. Pattinam, PB No. 33, Karaikal - 609 606. Tel. : +91 4365 256600 (5 Lines) Fax : +91 4365 256602
Corporate Office
New No.145 (Old No. 81) Royapettah High Road, Mylapore, Chennai - 600 004 Landmark: Thiruvalluvar Statue Bus Stop.
Tel : +91 44-4562 2000Fax : +91 44-4562 2080

ENVIRONMENTAL STATEMENTS

FORM – V
(See Rule 14)

The Ministry of Environment & Forest vide its notification dated 13 March, 1992 directed all industries which need to have consent under Water (Prevention & Control of Pollution) 1974 and Air (Prevention & Control of Pollution) 1981 to file the environmental statement every year. This is to be filed for the period ending March by September every year. The format for the same is as follows:

Environmental Statement for the financial year ending the 31st March, 2021

PART – A

i. Name and Address of the owner/occupier of the industry operation or process.

Corporate Office	Registered Office	KPPL Site office
Karaikal Port Private Limited No. 145 (Old No. 81), Royapettah High Road, Mylapore, Chennai - 600 004. Ph: +91-44-4562-2000 Fax: 044 4562 2080	Karaikal Port Private Limited, 81/A Maideen Palli Street Post Box No 33 Karaikal - 609602 India Phone: +91 4368 224773	Karaikal Port Private Limited, Keezhvanjore Village T.R.Pattinam – 609606 Phone: +91 4365 256600 Fax: +91 4365 256603

ii. Industry category Primary : **Infrastructure** (4400) ; Secondary : **Minor Port** (SIC Code)

iii. Production capacity 21.5 MMTPA Units. (Handling Capacity)

Cargo Quantity is 16.5 MMTPA (Coal 10 MMTPA+ General Cargo 3.5 MMTPA + Crude & Petroleum 1 MMTPA+ Edible Oil 0.5 MMTPA + Sand 1 MMTPA + Cement in Bulk 0.5 MMTPA) as per the Consent from Puducherry Pollution Control Committee.

iv. Year of Establishment: 2006 with the issue of EC. Port operations started in the year 2009.

v. Date of the last environmental statement submitted. 01.06.2020

PART – B

Water and Raw Material Consumption

i. Water consumption m^3 / day: 350 KL (Domestic, Supply to Ships, Gardening, Fire Service & Pollution Control & Miscellaneous) as per the water consent order.

Process : Effluent & Sewage Treatment Plants, Gardening, Miscellaneous consented quantity is 150 KLD

Cooling : Pollution Control (Dust Suppressions), Fire Services consented quantity is 160 KLD

Domestic : 40 KLD

Name of Products	Process water consumption per unit of product output.	
	During the previous financial year	During the Current financial year
	(1)	(2)
No manufacturing activities are carried out and therefore this table is not applicable. The Port activity does not involve any product to be generated except for the operation of the port in material handling. Hence there is no water consumption per product generated. However the water is consumed for the purposes as mentioned above.		

ii. Raw Material Consumption

*Name of raw materials	Name of products	Consumption of raw material per unit of output	
		During the previous financial year	During the Current financial year
No manufacturing activities are carried out and therefore this table is not applicable. The Port activity does not consume any raw materials and make any products. It is a Port infrastructure project. Hence there is no consumption of raw material involved.			

PART – C

Pollutants discharged to environment /unit of output

(Parameter as specified in the consent issued).

	Pollutants	Quantity of pollutants discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
(a)	**Water**	No pollutant is discharged for operation of the port project.	Nil	Nil
(b)	**Air** (Ambient air pollutants at the site)	Not applicable No manufacturing activities are carried out.		
	PM_{10}		49.62 µg/m^3	No variations (Pollutants values are under prescribed standards of PPCC/CPCB
	$PM_{2.5}$		26.3 µg/m^3	
	SO_2		9.76µg/m^3	
	NO_2		12.64 µg/m^3	
	CO		Below Detectable Limit (Detectable limit is 1 mg/m^3)	

PART – D

Hazardous Wastes

(as specified under Hazardous Waste Management and Handling Rules, 2016)

Hazardous Waste		Total Quantity (Kg.)	
		During the year 2019-20	During the current 2020-21
(a)	From process (Heavy equipment such as the Front end Loaders and other earth moving equipment)	1.Used Oil–.8.79 TPA 2. Waste Residue containing oil – 1.65 TPA	1.Used Oil– Nil 2. Waste Residue containing oil –0.1 TPA
(b)	From pollution control facilities	3. Oily Bilge Water – 40.53 TPA 4. Oil Residues (Sludge)-301.66 TPA	3. Oily Bilge Water – 9.35 TPA 4. Oil Residues (Sludge)-45.269 TPA

PART – E

Solid Wastes

Solid Waste		Total Quantity (Kg.)	
		During the FY 2019-20	During the FY 2020-21
(a)	From process	Processes from this Project activity does not generate any Solid Waste	
(b)	From pollution control facilities	Nil	
(c)	(1) Quantity recycled or re-utilized within the unit	13820 Kg /Annum	11540 Kg/Annum
	(2) Sold	Nil	Nil
	(3) Disposed	74220 Kg/Annum	68190 Kg/Annum

Sources of Solid Waste generation are from Kitchen garden and office buildings. All the recyclable waste such as Paper, Plastics are disposed as per the Solid Waste Management Rules. 2016.Biodegradable waste such as Kitchen & Garden waste are composed as manure through vermin composting methodology. The manure is being used for the development of Green Belt & in the nursery.

PART – F

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

Karaikal Port generates both Bio-degradable and Non-Biodegradable waste. Wastes generated from Kitchen, Office Buildings and Green Belt Area are bio-degradable wastes. Non Bio-degradable Hazardous waste generated from material handling systems and equipments categorized as used oil or spent oil, waste containing oil including foam pigs. Ship related waste such as sludge containing oil, sludge and filter contaminated with oil. Ballast Water containing oil from ships are also falls under Hazardous Waste Category.

All Bio-Degradable wastes are segregated at source and the waste which is recyclable sent as per the Solid Waste Management Rules, 2016. Wastes which are used for composting to convert in to manure and used for Horticulture and Green Belt Development.

Hazardous Waste is being disposed to the registered recyclers as per the Hazardous Waste Management Rules, 2016.

PART – G

Impact of the pollution abatement measures taken up on conservation of natural resources and on the cost of production.

Dust Suppression System: Dry Fog Dust Suppression (DFDS), Road Wetting by dedicated Water Tankers and Tractors, Fire Hydrant Network, DSS 200 Fogger were installed for controlling fugitive dust emissions during bulk cargo handling pre-dominantly coal.

Dust Containment System: Windscreen all along the Coal Yard & Railway siding at a height of 15M to capture the air-borne dust arise due to coal handling in the port premises.

Sewage Treatment Plant: STP of capacity 25 KL/Day have been installed to collect wash-water and kitchen water, sewage and treated using physico-chemical and biological treatment. The treated sewage has been consumed by port for Green Belt Development. It is replacing the freshwater requirement for Green Belt Requirements.

Vehicle Wash Treatment Plants: Vehicle Wash water is collected and treated for physico-chemical treatment and the water is reused.

State of the art Tyre wash system is in place where the effluent after treatment is reused in the same unit.

For collection of rainwater during monsoon and other season, rain water harvesting pond developed at 3 locations in the port Premises

Contour bund along the arterial road inside the port have been developed for a length of 700m which will retain and regulate the water to the green belt areas.

Guard Pond covering the open stock yard inside the port to collect runoff water has been developed at Mechanization Area.

Green Belt & Horticulture Development: Port has planted more than 2, 50,000 trees since it is inception.

Environment Management Cell:- Environment Management Cell has been made where the Heads of the Department are the members. It meets regularly and discusses the ways and means to improve upon the Pollution Control and abatement measures.

PART – H

Additional measures / investment proposal for environmental protection including abatement of pollution, prevention of pollution.

- Efficient water spraying methods have been erected and commissioned such as the high pressure water monitors and water sprayer machines.
- Additional areas have been identified for installation of Wind screens thereby help in maintaining the Ambient Air quality. In some areas HDPE mesh screens were placed by corrugated sheets.
- Dust Suppression System Sprinklers have been installed at some more locations.

All the above measures have helped in maintaining the Ambient Air quality in and around the port with in standards.

As a part of the Coal Handling Mechanisation the following systems have been erected, commissioned and operational since October 2018.

1. Ship Unloaders
2. Stacker and Reclamier
3. Truck Loading System
4. Wagon Loading System
5. Conveyor System Package

PART – I

Any other particulars for improving the quality of the environment.

- Karaikal Port is certified for Integrated Management Systems (IMS) for ISO 9001, ISO 14001, ISO 45001, ISO 50001 and the certificate is valid till January 2022.
- More Signage's on Environment awareness front were displayed
- Green Belt Development being implemented on a regular basis. Various varieties such as Pungam, Casuarinas Ashoka etc., are planted in suitable location. Around 65 species are maintained in & around Port.