

No. APMT/ENV-161/7145/2018

12 April, 2018

[FORM - V]

(See Rule 14)

From

General Manager-HSSE **APM Terminals Pipavav** Gujarat Pipavav Port Ltd. Post Ucchaiya, Ta.Rajula Dist.Amreli

To, Member Secretary, Gujarat Pollution Control Board, Sector-10 A, Paryavaran Bhavan Gandhinagar



Environmental Statement for the financial year ending the 31st March 2018

PART - A

1	Name and address of the	Mr. Ravindranath P.H,
	owner/occupier of the industry	(Head-Port Infrastructure & Facility)
	operation or process	APM Terminals Pipavav,
		Gujarat Pipavav Port Limited,
		Post:Ucchaiya,Tal:Rajula
		Dist:Amreli,Gujarat-365560,India
		Mobile: +91 9904807299
		E mail: P.Ravindranath@apmterminals.com
2	I. I. d.	
2	Industry category Primary	Minor Port
	(STC code) Secondary (SIC Code)	
3		
3	Production capacityUnits	This is Port sector, it operates facility for Loading,
		unloading, movement, transits, storage of Cargo and
		dispatch of Cargo, receving, storage, handling of
		finished vehicle RO RO cargos, washing, loading of
		finished vehicles RO RO cargos onto vesselas per
		CTE,(Order no. PC/CCA-AMR-13(7)/ID-
		14808/411575, dated 05/05/2017)approved capacity as
		per CCA Order;
		1. Container: 1.3 Million TEUs/year
		2. Bulk: 4 Million ton/year 3. Liquid including LPG LNG 2 6 Million ton/year
		 Liquid including LPG,LNG:2.6Million ton/year RO RO: 0.75 Million/Annum
		T. RO RO . 0.73 WIIIIOII/AIIIIIIII
	Terminals Pipavav	
	at Pipavav Port Ltd. Office : Rampara No.2	
Via:	Rajula	
Distr	rict - Amreli, Gujarat - 365 560	

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4	Year of establishment	1997
5	Date of the last environmental statement submitted	20/05/2017, vide our letter no. APMT/ENV-143/6956/2017, dated 19/05/2017.

PART-B

Water and Raw Material Consumption

i) Water consumption m3/d*:

Category	Consumption
Industrial (water spraying on Road, Coal yard etc as dust suppression, plantation)	1000
Domestic (Residential area, Offices,)	640

Total water consumption for April 2017 to March 2018 is 1640 m3/day as per GWIL bills.

Name of Products	Process water consumption	per unit of product output.
	During the previous financial year	During the Current financial year
This is caprocess. V	Not applicable ase of Port. There is no manufactur Vater consumption is for domestic an ent.	ing process. No consumption for

ii) **Raw Material Consumption**

*Name of raw materials	Name of products	Consumption of ra Unit of output	w material per
		during the	during the
		previous financial	current financial
		year	year

Not applicable,

Not applicable,

Not applicable,

This is case of Port &infrastructure industry. There is no manufacturing process. Handling of Cargo, i.e. loading, unloading, movement, transits, storage of cargo and dispatch of Cargotakes place.

Via : Rajula

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^{*}In the party party odes if disclosing details of raw material would violate contractual obligations, ratherwise all industries have to name the raw materials used.

Third monitoring: 5.12 Kg/day First monitoring: 5.12 Kg/day First monitoring: 5.12 Kg/day First monitoring: 5.12 Kg/day First monitoring: 3.20 Kg/day First monitoring: 5.12 Kg/day First monitoring: 5.20 Kg/day		Percentage of variation from prescribed standards with reasons		20 % in first	40 % in second	70 % in third			No deviation		Parameters found slightly deviating fromprescribed standards due to some	operating problems. Now, the system has been stabilized & upgraded to achieve prescribed norms.
charged to environment/unit of output s specified in the consent issued) Quantity of pollutants discharged (mass/day) First monitoring :7.68 Kg/day Second monitoring :10.88 Kg/day Third monitoring :6.4 Kg/day Suspended Solids: First monitoring :5.12 Kg/day Second monitoring :5.12 Kg/day Third monitoring :8.320 Kg/day (Considering Avg. flow of sewage of 320 m3/day and results of Analysis reports of #3 monitoring.)		Concentrations of pollutants in discharges (mass/volume)	BOD: < 20 mg/L	First monitoring :24 mg/L	Second monitoring:28 mg/L	Third monitoring :34 mg/L	Suspended Solids: < 30	First monitoring :20 mg/L	Second monitoring:16 mg/L	Third monitoring :26 mg/L	ine	
ion dis	ion discharged to environment/unit of output neter as specified in the consent issued)	nts Quantity of pollutants discharged (mass/day)	Water BOD:	First monitoring :7.68 Kg/day	Second monitoring: 8.96 Kg/day	Third monitoring :10.88 Kg/day	Suspended Solids:	First monitoring: 6.4 Kg/day	Second monitoring:5.12 Kg/day	Third monitoring :8.320 Kg/day	(Considering Avg. flow of sewage of 320 m3/day and results of Analysis reports of #3 monitoring.)	

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%0	Consent	for	ission from DG All parameters of flue gas emission of DG sets found	150		m	ш	*The port has no process	gas stacks. Only thue gas emission from DG Sets are	there. Also need to note that the Port has #3 DG sets	of 1 MW, which are being	failure or in emergency.	The DG Sets are standby units.	*There is no continuous	emission into the air. So,	(kg/day)is not calculated,	concentration of pollutants are in mass per vol. as		
No process gas	As per		Ille gas emission from Sets are:	٥		SOx: 100 ppm	14.2 NOx: 50 ppm	*The port }		Illrd monitoring that the Port	of 1 MW, w	failure or i	9.5 Units.	*There is r		Illrd monitoring (kg/day)is no	concentration of p are in mass per	mentioned in col.1.	14.2
oring from D G Sets.		Pollution Concentration	lst monitoring lind monitoring	17/04/2017 12/10/2017	75.8 89.7	18.2	11 12.8		Pollution Concentration	lst monitoring lind monitoring	70 82.8	22.7 8.5	9.6		Pollution Concentration	lind monitoring	78.4	9.2	11.6
Only Flue gas monitoring from D G Sets. No process gas emission. DG Set I*	-	Parameters	Ist mo	17/0	PM (mg/Nm³)	SO ₂ (ppm)	NO _x (ppm)	DG Set II*	Parameters	lst mor	PM (mg/Nm³)	$SO_2(ppm)$ 22	NO _x (ppm) 9.	DG Set III*	Parameters	1st monitoring	PM (mg/Nm³) 72.3	SO ₂ (ppm) 24.9	NO _x (ppm) 10.3
Gu Po	jra1 st 0	Pipa	vav Po	ipavav ort Ltd. Dara No								3		ם] 	(V)	

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PART - D

Hazardous Wastes

(as specified under Hazardous Waste Management and Handling Rules, 1989)

Hazardous Waster	Total Quantity (Kg.)						
	During the previous Financial Year	During the current Financial year					
a)From process	Not appli	cable*					
b)From pollution control facilities.	Nor	ne					
Ψ							

*

This is Port & infrastructure industry. There is no any manufacturing process occur. So, there is no generation of hazardous waste from process.

Hazardous wastes, of category 5.1 &5.2 ,i.e Used oil & Waste Oil granted in CC&A. Used oil is generated from workshops. On reception of Used/spent oil from different sections of Port, it is collected in Drums and placed in dedicated storage area for sale to Recyclers/Re processors.

At present, no receiving of Waste oil from Vessels.

30.730 KL of Used Oil disposed off/sold outto GPCB registered Re recyclers/Re refiners during financial year 2017-18.

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PART - E

Solid Wastes

	Total Q	uantity
Description	During the previous Financial year	During the current Financial year
(a) From process	Not applicable	Not applicable
	(No manufacturing)	(No manufacturing)
a) From pollution control facility	Negligible quantity of Sludge from STP	Negligible quantity of Sludge from STP
(c) Quantity recycled or re-utilized within the unit		
(1) Sold	None	None
(2) Disposed	(Domestic waste generated from residential area, which is being disposed off on segregation of recyclable items, STP sludge used as manure.)	(Domestic waste generated from residential area, which is being disposed off on segregation of recyclable items, STP sludge used as manure.)
•	477.748 MT/year	477.748 MT/year

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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.

Hazardous Wastes

Category

: Used Oil & Waste Oil, Cat. 5.1 & 5.2 as

Sources

:Cargo handling equipments and Vessel

Characterizations: It mainly Hydrocarbon and water particles in terms of composition.

Storage: The Port has dedicated storage area for Hazardous waste and non hazardous wastes. Used oil, E waste, and used Batteries are being stored separately, also having separate slot for other wastes, i.e. Metal wastes, Glass wastes, wood wastes, Plastic wastes and rubber wastes.

Storage Area:

- 30x15 meter storage area for Hazardous wastes.
- MS roof structure, GI sheeting
- Concrete flooring
- Run off collection pit with drain.
- Fencing with adequate safety measures.

Quantity

: CCA granted for:

Category	MT/Annum
5.1, Used oil	45
5.2 waste oil	2000

Disposal: The Port has been granted Authorisation under Haz.Rules for collection, storage, transportation, disposal of used Oil & Waste Oil by selling to registered Re refiners/Re reprocesors/Recyclers. On reception of Used/spent oil from different section of Port, it is collected in Drums and placed in dedicated storage area for its sale to GPCB registered Recyclers/Re processors

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Solid wastes:

Sources :Domestic wastes from residential area of the Port, Offices, garden, mess, canteen etc.

Quantity :477.748 MT/year including garbage, plastic, paper, scrap etc.

Characterizations : It characterized as Organic Carbon 14.9 %, bulk density 0.2061 g/ml and GCV of 1210 kcal/kg.

Collection & Disposal : Solid wastes generated from Residential area and Port's functional area is being collected in color coded bins and disposed at nearby dumpsite of Nagarpalika/GramPanchayat through Contractor as per SW Rules.Upgradation of solid wastes is in progress.

PART-G

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

Followings pollution abatement measures have reduced the consumption of natural resources, i.e electricity, diesel, water etc.. and minimize the waste generation and resulted into the reduction in associated cost.

- Energy conservations drives: Electrification of Cranes are completed, which will reduce on site flue gas emission and save fuel and reduce quantum of hazardous wastes generation.
- Replacement of existing conventional HPSV /MH load to LED Lightings. APM Terminals Pipavav has replaced conventional fixtures of Street lights & High mast with LED fixtures, which resulted into considerable energy savings.
- Go Green Campaign, activities of trees plantation, cleanliness drives, waste minimization, community awareness, energy conservation among Port employees and Port residents etc.
- Solid waste management upgradation: Disposal of MSW generated in the Port for Co processing in nearby Cement Company, MoU signed with M/s. UltraTEch Cement Company for disposal of it through co processing. More emphasis on source segregation and efficient collection system, i.e., color coded bins, frequency etc.. Sustainable MSW model will be implemented in phase wise manner in next 1.5 years.
- Dust suppression system at Rail yard installed, to improve quality of ambient air.
- Sustainable Hazardous waste management initiated by implementing new method of collection and disposal in environmentally sound manner.
- Community plantation and other cleanliness drives at nearby villages.
- Training & awareness programmes for all Port employees & Port residents.

APM Tecninal filective implementation of Company's sustainability policy.

Post office: Range and Manual ling by conveyor system, & Hoppers to reduce fugitive dust emission.

District - Amrell Gularat - 355 560 lendly dedicated coal yard.

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- Dedicated Hazardous waste storage area. Separate waste management cell for storage of different type of wastes.
- Lead bund and Tray for containment of leaked Cargo.
- Disposal of "discarded Carg" o in environmentally sound manner
- Maintenance of 88acres of Mangroves within the port
- Planted 500 hectares of Mangrove in Surat and Bharuch, 100 Ha Plantation of Mangroves in Vil.Katpor, Bharuch for protection of Coastal area.
- Eco-Friendly Rubber Tyred Gantries.
- Periodic monitoring of all environmental parameters.
- As part of CSR-Environment, Ground water Recharge, check dam, natural fertilizers, preventing soil erosion, etc projects are under progress in nearby villages in association with NRM.
- Planted and maintained 35,000 trees/ saplings, improves ambient air quality.
- 100% sewage being treated and treated water used for plantation, thus also reduced the fresh water demand for development of Green Belt.

PART-H

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

- Storm water drainage under progress.
- Dust suppression system at Rail siding under progress.

Capital cost of Environment management is proposed about 2.6 Cr.

PART-I

Any other particulars for improving the quality of the environment.

- Sustainable Solid waste management
- Sustainable Hazardous wastes management.
- Progress of Storm water drainage in the remaining area of Port.
- Upgradation of the conveyor system, optimum dwelling time for storage of bulk cargo, and environmentally sound transport of bulk materials on Jetty & yards.
- To upgrade EMS and to reduce carbon footprint.
- Upgradation and modernization of pollution control systems.
- Encouraging green procurement.

Signature:

Name: Mr. Sanjay Singh

APM Terminals Pipavav

Gujrat Pipavav Port Ltd. Post Office: Rampara No.2

Via: Rajula

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