



**Ports and
Logistics**

DPCL/ENV/OSPCB/2021-075

Date: 14.09.2021

To
The Member Secretary
State Pollution Control Board, Odisha
A/118, Nilakantha Nagar, Unit –VIII,
Bhubaneswar – 751012
Odisha

Sub: Environmental Statement for the financial year ending 31st March 2021 for Dhamra Port Company Limited at Dhamra, Bhadrak, Odisha.

Ref: Consent Order No. 4218/IND-I-CON-6348 dated 24.04.2020.

Dear Sir,

With reference to the above-mentioned subject, please find enclosed Environmental Statement in Form V prescribed under Rule 14 of the Environment (Protection) Rules 1986 of The Dhamra Port Company Limited situated at Dhamra, Bhadrak, Odisha for the financial year ending 31st March 2021.

Thanking you,

Yours faithfully,
For **The Dhamra Port Company Limited**


Krishna Kumar
Head Environment

Encl: As above.

Copy to: The Regional Officer, State Pollution Control Board, Odisha, Plot no. -1602, Ganeshwarpur, Januganj, Balasore - 756019

The Dhamra Port Company Ltd
(A Wholly Owned Subsidiary of APSEZL)
At: Dosinga, PO: Dhamra
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FORM V
(See Rule 14)

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 : Sudip Dasgupta
Chief Operating Officer
The Dhamra Port Company Limited
At/PO.- Dosinga, Via. Dhamra, Dist-Bhadrak
Odisha - 756171
- (ii) Industry Category : Red-B
Primary (STC Code) : NA
Secondary (STC Code) : NA
- (iii) Production Capacity : 71.84 Million MT/Annum Cargo & 1 Million TEU/Annum Containerized Cargo
- (iv) Year of Establishment : 2000
- (v) Date of last Environment Statement submitted : 21ST September, 2020

PART – B

Water and Raw Material Consumption

(i) Water Consumption

Water Consumption Cu. Mtr./Day	
Process	Nil
Cooling	Nil
Domestic	494.323 m ³ /day
Dust suppression	893.467 m ³ /day
Fire fighting	670.923 m ³ /day

Name of Products	Process Water Consumption per unit of Product Output	
	During the current financial year (2019-20)	During the current financial year (2020-21)
Handling of Iron Ore, Coal, Limestone, Gypsum, Steel coil/plate, Slag, Fertilizers, Gas oil, LPG, Pyroxenite, Olivine Sand, Project Cargo, Dolomite, Coke*	0.035 m ³ /Ton	0.018 m ³ /Ton

(ii) Raw Material Consumption

Name of Raw Material	Name of Products	Consumption of Raw Material per Unit of output	
		During the previous financial year (2019-20)	During the current financial year (2020-21)
Nil*	Not Applicable	Nil	Nil

* Unit does not have any manufacturing process

PART – C

Pollutants discharged to Environment/Unit of Output
(Parameters as specified in 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	Nil*		
(b) Air	Monitoring data attached as Annexure-1		

*Unit does not manufacture anything, as it is a service industry (Port) engaged in handling and storage of cargo. No effluents are generated from the port. Treated water from the STP is used for horticulture purposes.

PART – D**Hazardous Wastes**

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

Hazardous Wastes	Total Quantity	
	During the previous financial year (2019-20)	During the current financial year (2020-21)
(a) From Process Used oil /Spent oil	24.096 KL	30.680 KL
(b) From Process Oil containing cargo residue, Washing water and Sludge (Waste Oil)	896.250 KL	1003.530 KL
(c) From Process Chemical Containing Cargo residue and sludge/ waste/Residue containing oil	NA	Nil
(d) From Process Sludge and Filters contaminated with oil / Process waste, Residues and sludge / Contaminated cotton rags or other cleaning materials	1.154 MT	1.128 MT
(e) From Process Ash from Incineration of Hazardous waste, Flue gas cleaning residues	NA	Nil
(f) From Process Empty barrels / Containers / Liners contaminated with Hazardous chemicals /wastes	NA	Nil
(g) From Pollution Control facilities	Nil	Nil

PART – E**Solid Waste**

Solid Waste	Total Quantity Generated (MT/Annum)	
	During the previous financial year (2019-20)	During the current financial year (2020-21)
(a) From Process (Ash)	Nil	Nil
(b) From Pollution Control facilities	3.535 MT/Annum	4.645 MT/Annum
(C-1) Quantity recycled or reutilized within the unit	3.535 MT/Annum	4.645 MT/Annum
(C-2) Sold	Nil	Nil
(C-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			
Sl. No	Name of waste	Generation quantity	Disposal method
1	Used oil /Spent Oil	30.680 KL	Sold to Authorized Recyclers /Re-processors
2	Oil containing cargo residue, Washing water and Sludge (Waste Oil)	1003.530 KL	Sold to Authorized Recyclers / Re-processors
3	Chemical Containing Cargo residue and sludge/ waste/Residue containing oil	Nil	NA
4	Sludge and Filters contaminated with oil / Process waste, Residues and sludge /Contaminated cotton rags or other cleaning materials	1.128 MT	ACC for co-processing /energy recovery/Stored in HW Shed
5	Ash from Incineration of Hazardous waste, Flue gas cleaning residues	Nil	NA
6	Empty barrels / Containers / Liners contaminated with Hazardous chemicals /wastes	Nil	NA

DPCL has got the authorization from OSPCB vide letter no. IND-IV-HW-894/3729 on dated 21.03.2020 for handling of hazardous waste which is valid till 31.03.2025.

Solid Waste			
Sl. No	Name of waste	Generation quantity	Disposal method
1	Paper waste	6.631 MT	Recycled for making note pad through third party recycler
2	Plastic waste	64.839 MT	Sent to M/s ACC Limited for co-processing/energy recovery
3	Glass Waste	5.219 MT	Sold to scrap vendor for recycling.
4	Food waste	95.253 MT	Used for making compost for horticulture use.
5	STP Sludge	4.645 MT	Used as manure in horticulture work

PART – G

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

- DPCL has three nos. of settling pond of capacity about 50,000 m³ is being used for collection of effluent and runoff water from stack yard area. The treated water is further being reused for dust suppression & sprinkling on road.
- Wastewater generated from Port and township is being treated in four nos. of sewage treatment plant (STP) of capacity 150 KLD, 140 KLD, 25 KLD & 15 KLD. The treated water is being used for horticulture/gardening purpose.
- Effluent Treatment Plant is used for treatment of wastewater generated from vehicle washing. Treated water from this ETP is again reused for vehicle washing.
- 9 nos. of mechanized road sweeping machines have been deployed for cleaning of road on regular basis.
- 2 nos. mist cannons have been deployed for suppression of fugitive dust emissions.
- Regular monitoring of Ambient Air Quality by a MOEFCC accredited agency to meet the prescribed standard by concerned authority.
- Green belt has been developed inside & outside of the port.
- During the financial year 2020-21, the total amount of Rs. 20.66 Crores was incurred on environmental protection measures.
- 50 KL capacity of rainwater harvesting structure has been developed for reutilization of rainwater in plantation purpose.
- Trawler has been provided to Forest Department, Govt. of Odisha for patrolling purpose for conservation of Olive Ridley turtle.
- Two nos. of rowing boat and one motor boat has been provided to Forest Department, GoO for conservation of Kanika Sand Island.

PART – H

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

GHG Emission

- Shoreline power for Ships, Dredgers & Tugboat berthed at Port
- Use of Renewable Energy (Roof top solar power)
- Switching over to e-machines from diesel operated
- Use of LED Lightings in inside and outside lightings
- Use of automatic sensor fitted lights in roads and common areas
- Usage of Ozone friendly gases in ACs and HVAC systems
- Use of air circuit breaker instead of conventional having SF6

Air management

- Use of rain guns for fugitive dust suppression at minerals stack yard
- Mechanized Road sweeping machines
- Pre wet system before wagon tipping
- Closed conveyor system.
- Tarpaulin covering of rail wagons at Wagon covering shed
- Wagon cargo loading by closed silo system
- Mechanized handling (loading & unloading) of cargo from ship
- Dust suppression system at conveyor lines and transfer points
- Water sprinkling on stack yard internal roads
- Dedicated team for housekeeping.
- Use of movable mist cannon for control of fugitive emission.

Water management

- Zero effluent discharge from Port premises
- Use of 4 nos. of STP for treatment of domestic wastewater
- Reuse of STP treated wastewater for gardening and horticulture purpose
- Use of ETP for treatment of effluent generated at vehicle washing station
- Reuse of ETP treated wastewater for vehicle washing
- 3 nos. settling pond for runoff water treatment
- Reuse of Settling pond treated water for dust suppression and sprinkling on roads
- Installation of water meter for monitoring the water usage
- Use of drip irrigation in gardening and horticulture work
- Installation of 50 KLD rainwater harvesting structure.

Waste Management

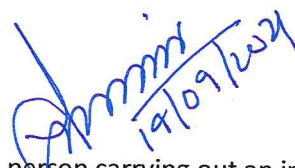
- Achieved zero waste to landfill in case of solid waste
- Energy recovery from plastic waste and hazardous waste by co-processing at ACC Limited.
- Port certified as Single Use Plastic (SUP) free Port by M/s CIL.
- Implementation of 5R concept in waste management
- Waste to wealth initiative implemented
- Utilization of STP sludge as manure for horticulture use

Bio-Diversity Conservation

- Around 9 ha of the mangrove area situated at south site of our port is being conserved and protected by declaring the area as no activity zone with proper bamboo fencing and providing material support to maintain the natural ecosystem.
- Further around 4,000 mangroves have been planted for conservation of mangroves.
- DPCL has also developed a nursery with massive numbers of mangrove sapling.
- Degraded forest patch/ gramya jungle adjacent to Port periphery at Amarnagar, Dosinga, Kanakprasad, Rabindranagar & Balisahi village are being developed by planting trees in co-ordination with forest department, GoO.
- DPCL provides support to Forest department for conservation of Kanika Sand Island.
- Specially designed "dark sky friendly" lights fixed in the port and township area which are turtle friendly.
- Adopting horizontal mounting lights and its periodic checking.
- Mercury vapor lamp and metal halides lamp are prohibited.
- Awareness programmes have been conducted in nearby village as well as inside the port premises by DPCL regarding the conservation of the Sea turtle Olive Ridley, mangrove conservation etc.
- Distribution of plants and seedling among local people for development of green ecosystem.

PART – I**Any other particulars for improving the quality of environment:**

- Dhamra Port committed to promote a culture seeking continual improvement in Environment performance of the organization.
- Dhamra Port emphasizes on implementing Environment Management System to optimize its resource consumption, improve efficiencies, reduce wastes by adopting 5R principles and enhance operational safety to minimize environmental risks. The environmental concerns are considered and addressed adequately during planning, project development and operations.
- Specialized illumination system in line with “International Dark Sky Association (IDA)” has been installed to avoid illuminating the sky or focusing light towards sea. Sodium vapour lamps are being used instead of mercury lamp. All area lighting, roadway lighting and lighting mounted on masts or other elevated structures are of full cutoff luminaries.
- Deflectors are installed on drag-head of dredgers to keep turtles out of path of dredger. Screens are also installed in inflow/overflow pipes of dredgers to monitor turtle entrainment. There are observers on Dredgers to ensure implementation of IUCN Dredging Protocol.
- DPCL has made an effective contribution towards Environment Protection, management and conservation during this year.
- Under the inspiration of Prime Minister’s Clean India Mission, APSEZ has developed a vision for making itself – “A Zero waste to landfill Company”. APSEZ’s vision is based on adoption of 5 R’s principle of waste management, i.e. Reduce, Reuse, Reprocess, Recycle & Recover.
- 100 % wastewater generated is being reused and recycled.
- Waste camps are being organized in township for collection of waste materials from township residents so as to collect other waste apart from garbage. The main intention is to make the area waste free and for creating awareness among residents.
- DPCL believe in sustainable development and are working in close harmony of biodiversity rich area. We are regularly monitoring our footprints on environment.
- Adopted the 5Rs principle in our Port premises
- Achieved Zero discharge of wastewater.
- Achieved Zero Plastic used inside our Port Premises.
- Single Use Plastic free port declared by M/s CII.
- Waste paper Recycling
- Use of Eco- Friendly product which is made of waste paper.
- Installation of 621 kwp Roof top solar power.

Date : 14-09-2021

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

Name : Krishna Kumar

Designation : Head Environment

Address : The Dhamra Port Company Limited
At/PO. Dosinga, Via. Dhamra,
Dist-Bhadrak, Odisha

Annexure 1