JUBILANT INFRASTRUCTURE LIMITED - SEZ

ENVIRONMENTAL STATEMENT

Date: 16-09-2024

FORM-V

Environmental statement for the Financial Year ending 31st March, 2024

PART-A

I Name and address of the owner/occupier of the industry, operation or process

Mr. Chandan Singh
1-A, Sector 16-A,
Noida - 201 301
Uttar Pradesh

: Location of industry :
Jubilant Infrastructure Ltd. (SEZ)
Plot No. 5, Vilayat GIDC Estate
Tal : Vagra - 392 012.
Dist : Bharuch (Gujarat)

II Industry Category : Major

III Production capacity : POWER : 15 MW

IV Year of establishment : 2011

V Date of last environmental audit statement submitted :
: 25.06.2023

PART-B

Water and Raw Material Consumption

I Water consumption M3/day (average)

Process	46.83
Boiler & Cooling	994.15
Domestic	18.17
Others	0.0

Name of Product	Process Water consumption (including boiler, cooling, domestic water etc.)	
	Per MT of product output during	
	Previous financial year	Current financial year
POWER	Utility is provided to member units	Utility is provided to member units

II Raw Material consumption:

Name of Raw Material	Raw Material consumption per MT of Product output during	
	Previous financial year	Current financial year
Natural Gas	0.0 SM3/KWH (No Operation of Gas Turbine)	0.0 SM3/KWH (No Operation of Gas Turbine)

PART-C

Pollution generated

Sr. No.	Pollutants	Quantity Of pollution (mass per day avg.)	Quality Of pollution	Percentage variation from prescribed standard with reasons
(a)	Water			
1	Flow	94.03 M3/day	NA	Within limit
2	pH	7.0 - 8.5	7.0 - 8.5	Within range
3	S.S.	2.63 kg/day	28.00 mg/l	Within limit
4	Oil & Grease	0.00 kg/day	0.00 mg/l	Within limit
5	BOD	2.91 kg/day	31.00 mg/l	Within limit
6	COD	7.15 kg/day	76.00 mg/l	Within limit
7	Amm. Nitrogen	0.26 kg/day	2.75 mg/l	Within limit
(b)	Air stack attached to			
(1)	INCINERATOR			
	- SPM	16.86 kg/day	17.33 mg/Nm3	Within limit
	- NOx	10.83 kg/day	11.13 mg/Nm3	Within limit
	- SO2	4.21 kg/day	4.33 mg/Nm3	Within limit
	- HC	0.36 kg/day	0.38 mg/Nm3	Within limit
	- HCl	0.10 kg/day	0.1 mg/Nm3	Within limit
(2)	BOILER 28 TPH			
	- SPM	18.05 kg/day	17.92 mg/Nm3	Within limit
	- NOx	15.77 kg/day	15.66 ppm	Within limit
	- SO2	13.48 kg/day	13.38 ppm	Within limit
(3)	BOILER 35 TPH			
	- SPM	25.05 kg/day	21.67 mg/Nm3	Within limit
	- NOx	20.27 kg/day	17.53 ppm	Within limit
	- SO2	36.00 kg/day	31.14 ppm	Within limit

PART-D

Hazardous Waste

(As specified under Hazardous Waste Management & Handling Rules)

Sr. No.	Hazardous Waste	Total Qty. (MT) during	
		Previous financial year	Current financial year
a	From Process	NIL	NIL
b	From pollution control facilities		
1	ETP Sludge	50.12 MT	13.720 MT
2	Spray dried salts, Incinerator ash	0.000 MT	0.000 MT
3	Waste Containing Oil	0.000 MT	0.000 MT
4	Insulation Waste	2.830 MT	0.000 MT
5	Packing Materials and Empty Containers	12.960 MT	0.000 MT

PART-E
Solid Waste

Sr. No.	Solid Wastes	Total Qty. (MT) during	
		Previous financial year	Current financial year
a 1	From Process Fly ash	3339.00 MT	4781.81 MT
b	From pollution control facilities	0 MT	0 MT

PART-F

Please specify the characteristics (in terms of composition & quantum) of solid as well as hazardous waste and indicate disposal practice adopted for these categories of waste

Sr. No.	Waste	Characterist	Schedule	Facility
1	ETP Sludge	Solid	35.3	Collection, storage, transportation, disposal at authorized common TSDF or common TSDF of SEZ.
2	Spray dried salts, Incinerator ash	Solid	37.2	Collection, storage, transportation, disposal at authorized common TSDF or common TSDF of SEZ.
3	Used oil	Liquid	5.1	Collection, storage, transportation, disposal by sale to authorized re-refiner.
4	Used batteries	Solid	---	Collection, storage, reception within factory premises and transportation, for sale to authorized recycler. Management as par battery rules.
5	Packing material, empty containers	Solid	33.1	Collection, storage, transportation, disposal by sale to authorized recycler.
6	Corrosive waste	Solid	C-2	Collection, Storage, Transportation, Disposal by sale to authorized recycler or final disposal at authorized common TSDF or common TSDF of SEZ or co-incineration at cement plant.
7	Waste containing oil	Liquid	5.2	Collection, storage, reception within factory premises and transportation, for final disposal at authorized common incinerator or common incinerator of SEZ or co-incineration at cement plant.

8	Spent resin from ion exchange	Solid	35.2	Collection, Storage, Transportation, Disposal by sale to authorized recycler or final disposal at authorized common TSDF or common TSDF of SEZ or co-incineration at cement plant.
9	Spent filter aid (E.g Charcoal, carbon, scrubber packing media etc)	Solid	36.2	Collection, Storage, Transportation, Disposal by sale to authorized recycler or final disposal at authorized common TSDF or common TSDF of SEZ or co-incineration at cement plant.
10	Waste Insulation Material	Solid	--	Collection, Storage, Transportation, Disposal at authorized common TSDF or common TSDF of SEZ.
11	Inorganic MEE Salt	Solid	35.3	Collection from units of SEZ, Storage, Transportation, Disposal by sale to authorized recycler or final disposal at authorized common TSDF or common TSDF of SEZ.
12	Spent catalyst	Solid	28.2	Collection from units of SEZ, Storage, Transportation, Disposal by sale to authorized recycler or final disposal at authorized common TSDF or common TSDF of SEZ or co-incineration at cement plant.
13	Organic / Process Residue	Liquid	20.3	Collection from units of SEZ, Storage, Transportation, Disposal by sale to authorized recycler or final disposal at authorized common Incinerator or common Incinerator of SEZ or co-processing at cement plant.

PART-G

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

- 1000 KLD CETP plant having primary, secondary & tertiary treatment with online pH meter, Flow meter, Data recorder, Dissolved Oxygen, Ammonical Nitrogen & COD/BOD/TSS analyzer facility.
- Effluent disposal in to deep sea off Dahej through GIDC effluent conveyance network & vilayat - Dahej pipeline.
- Full fledged Laboratory facility for analysis of water, waste water, air & solid samples.
- Full fledged Occupational Health Centre & Ambulance.
- Incinerator for liquid effluent & process vent incineration with Waste Heat Recovery Boiler for steam generation in JIL SEZ. Incinerator is PLC based auto plant having scrubber & pack bad column for pollution control. Online Stack monitoring for emission measurement.
- ESP for pollution control in Boiler. Online Stack monitoring for emission measurement.
- Packaged STP for domestic effluent treatment & reuse in greenbelt / garden development.
- 20 Mtr. Width greenbelt on periphery with local and specific plants.
- Fire Hydrant System & Fire Tender for Emergency control.
- Rain water harvesting system in non process area.
- Hazardous Waste Storage shed with leachate collection facility.
- Regular stack, effluent, noise, work environment and ambient air monitoring.
- Annual Environmental Audit of Plant & CETP.
- Hazardous waste storage shed.
- ISO 14001 & 45001 certification. Responsible Care RC 14001 certification.
- Online Hydrogen monitoring system.
- Online Ammonia monitoring system.
- Online Chlorine monitoring system.
- Online VOC monitoring system.
- In house incineration of organic residue.
- Online ammonia monitoring at incinerator.
- Online pH control system with 3-way valve facility for diverting of treated effluent for retreatment in CETP.
- Hazardous waste storage shed expansion for storage of waste during monsoon season.
- Installation of centralise online environmental data recording & monitoring system.
- Facility for storage of Spent Catalyst waste.
- Facility for storage of Insulation waste.
- Facility for storage of Process residue waste.
- Facility for storage of used PPEs waste.
- Facility available for drum decontamination.
- 1000 KL RCC buffer storage facility developed at CETP for storage of treated effluent incase of emergency.
- Composite sampler at final outlet of CETP.
- Flowmeter installed in all effluent incoming lines and final outlet return line at CETP.
- Installation of online environmental parameters LED board at main gate.
- Installation of UV disinfection system in treated sewage outlet.
- Installation of RO plant for effluent treatment & recycle.
- Coprocessing of Hazardous waste
- Plantation of 4500 trees.

- Fly ash utilisation for bricks manufacturing/ construction use/ cement industry use etc.
- Above ground fire hydrant network to prevent water loss due to leakages.
- Plantation of 7500 trees.

PART-H

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

- Plantation of 6000 trees.
- Maximize Cement Co-processing of Hazardous wastes.
- Hazardous Waste storage facility will be developed in Unit-1 premises
- Upgradation of ETP Sludge drying & storage facility.
- ZLD facility development like MEE, RO plant for recycle of treated effluent.

PART-I

Any other particulars for improving the quality of environment

- Plantation of 6000 trees.
- Maximize Cement Co-processing of Hazardous wastes.
- Hazardous Waste storage facility will be developed in Unit-1 premises
- Upgradation of ETP Sludge drying & storage facility.
- ZLD facility development like MEE, RO plant for recycle of treated effluent.

Atul Sharma
Vice President & Site Head - Bharuch