

FORM – V
(See Rule – 14)

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING 31ST MARCH 2019

C2C3 RECOVERY & GAS PROCESSING UNIT:

PART – A:

- | | |
|---|---|
| | Shri S. M. Singh
Executive Director (O&M – Central Region) |
| 1. Name & Address of the Owner/
Occupier of the Industry | C2C3 Recovery & Gas Processing Unit
GAIL (India) Ltd.,
Vijaipur, Dist. – Guna (MP)
Pin – 473112. |
| 2. Date of Last Environment Statement
Submitted | 28 th Sept., 2018 |

PART – B:

WATER AND RAW MATERIAL CONSUMPTION:

1. Water Consumption

Total Consumption	: 15766 M ³ / Day
Process	: Nil (No water is consumed for LHC production)
Industrial (Cooling/ Boiler)	: 11700.63 M ³ / Day
Domestic (including township)	: 4065.9 M ³ / Day

Name of the Product	Water consumption per unit of Product	
	During the previous Financial Year (2017-18)	During the current Financial Year (2018-19)
	(1)	(2)
Liquid Hydrocarbon (LPG, Propane, Naphtha/ SBP, & Pentane)	2.76 M ³ / MT	4.14 M ³ / MT

2. Raw Material Consumption

Name of the Raw Material	Name of the Product	Consumption of raw material per unit of output	
		During the previous Financial Year (2017-18)	During the current Financial Year (2018-19)
Natural Gas	Liquid Hydrocarbon (LPG, Propane, Naphtha/ SBP, & Pentane)	581.7 SM ³ / MT of Product	564.1 SM ³ / MT of Product

PART – C:**POLLUTION GENERATED:****(Parameters as specified in the consent issued)**

Sr.No.	Pollutants	Quality of Pollution Generated	Generated Percentage of variation from prescribed Standards with Reasons
(a)	Water	BOD = 14.1 mg/l COD = 67.2 mg/l pH = 7.6 units S.S. = 40.2 mg/l O & G = Not Detectable Phenol = Not Detectable	
(b)	Ambient Air	PM ₁₀ = 79.1 µg/m ³ PM _{2.5} = 46.7 µg/m ³ SO ₂ = 10.9 µg/m ³ NO ₂ = 20.0 µg/m ³ CO = 1.0 mg/m ³ O ₃ = 21.4 µg/m ³ NH ₃ = 14.3 µg/m ³ VOC = Not Detectable	The actual values of the parameters are well within the limits of the prescribed standards as per Consent Conditions
(c)	Stack	PM = 17.9 mg/Nm ³ SO ₂ = 8.5 mg/ Nm ³ NO _x = 61.4 mg/Nm ³ VOC = 8.5 mg/ Nm ³	

PART – D:**HAZARDOUS WASTES:****(As specified under Hazardous Wastes – Management & Handling Rules, 2016-Amended)**

Sr.No.	Hazardous Wastes	Total Quantity (Litres)	
		During the previous Financial Year (2017-18)	During the current Financial Year (2018-19)
(a)	From Process (Spent Oil, Waste Stream 5.1)	4410 Litres	8990 Litres
(b)	From Control Facility (ETP) (Waste oil, Waste stream 5.2)	0 Liters	0 Liters

PART – E:**SOLID WASTES:**

Sr. No.	Source	Total Quantity (Metric tonnes)	
		During the previous Financial Year (2017-18)	During the current Financial Year (2018-19)
(a)	From Process (Mol. sieves, PUF-Glass Wool, Wastes with oil residues)	11.37	10.731
(b)	From Pollution Control Facility	NIL	NIL
(c)	Quantity Recycled or Reutilized	NIL	NIL

PART – F:

Condition	Remarks
Please specify the characteristics and quantum of hazardous as well as solid wastes and indicate disposal practices adopted for these categories	1) 100 Nos. of Empty Ethyl Mercaptan drums are reused (in-house) as tree guards after proper treatment. 2) Used oil is being collected in drums and kept at designated yard and sold to CPCB/MPPCB/MoEF authorized re-processors as per authorization guidelines. 3) Solid Hazardous Wastes generated from Plant process is currently disposed through MPPCB authorized TSDF.

PART – G:

Condition	Remarks
Impact of pollution control measures on conservation of natural resources and consequently on the cost of production.	1) GAIL has constantly taken the measures to conserve energy and consumption of Natural resources for its energy requirement i.e. Gas. Constant efforts in this direction has enabled the company reduce its specific energy consumption and thereby saving cost of production. 2) Approximately 5 lacs sq. mts. of Land is being maintained as a lawn area and approx. 1 Lakh trees of different categories (Teak, Ashoka, Royal Palm, Sisam, Awala, Jamun, Gulmohar, Imli, Botal Brush etc.) are planted inside plant, township & surrounding area and maintained well. 3) Total Plantations for GAIL Complex, Vijaipur in FY 18-19 are 5506 nos.

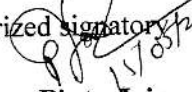
PART – H:

Condition	Remarks
Additional investment proposal for environmental protection including abatement of pollution.	Rs. 149.25 Lacs – for Energy Saving initiatives, Environment Monitoring and Waste Management (Common in Environment Statement of other units under Compressor Station Area for GAIL Vijaipur for the FY 2018 – 2019).

PART – I:

Miscellaneous

Condition	Remarks
Any other particulars in respect of environment protection and abatement of pollution.	1) All Hazardous Wastes disposed through Authorized recyclers/ disposal agency only. 2) All Municipal waste converted to Manure or disposed through authorized recyclers only.

Authorized Signatory

Pintu Jain
Sr. Engineer (GPU)