

FORM – V
(See Rule 14)*
ENVIRONMENTAL STATEMENT

From:
GULBRANDSEN CHEMICALS PVT LTD.
ON COASTAL HIGHWAY
AT & PO-MUJPUR
TA-PADRA, DIST-VADODARA

To:
Gujarat Pollution Control Board,
"Paryavaran Bhavan"
Sector-10A,
GANDHINAGAR- 382 010.

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

PART – A	
Name and address of the owner/ Occupier of the industry operation Or process	: Mr. Narendra Varma Gulbrandsen Chemicals Pvt. Ltd. On Coastal Highway At & PO-Mujpur, TA-PADRA Dist-Vadodara
Industry category – Primary – (STC Code) Secondary – (SIC Code)	: Large
Production capacity Units	: Attached as ANNEXURE-I
Year of establishment	: JULY 2000
Date of the last Environmental Statement submitted	: April 30, 2020

* Submission of Environmental Statement is in accordance with the provisions of Rule-14 of the Environment (Protection) Amendment Rules, 1993 of the Environment (Protection) Act, 1986 (29 of 1986) published vide Notification dated 22-4-1993 G. S. R. 386 (E) in the Gazette of India-Extraordinary Part – II Section – 3 Subsection (i), No. 155 dated 28-4-1993 by the Ministry of Environment and Forests, Government of India; read with the Notification dated 13-3-1993 G. S. R. 329 (E), of the Gazette of India – Extraordinary Part – II Section – 3 Subsection (i) No. 120 dated 13-3-1993.

" Every person carrying on an industry, operation or process requiring Consent under Section – 25 of the Water (Prevention & Control of Pollution) Act, 1974 (6 of 1974) or under Section – 21 of the Air (Prevention & Control of Pollution) Act, 1981 (14 of 1981) or both or authorization under the Hazardous Waste (Management and Handling) Rules, 1989 Published under the Environment (Protection) Act, 1986 (29 of 1986) shall submit an Environmental Statement for the financial year ending the 31st March in Form V to the concerned State Pollution Control Board on or before the Thirtieth day of September every year, beginning 1993."

PART – B

Water and Raw Material Consumption		
Water Consumption M3/day	:	188.18 M3/Day
Process	:	84.19 M3/day
Cooling	:	71.15 M3/day
Domestic, Gardening & Construction	:	32.84 M3/day

Name of Products		Process water consumption per unit of product output	
		During the previous financial Year 2019-20	During the current financial year 2020-21
		(1)	(2)
Sr. No.	Name of Product	1.06 M3/Ton	1.08 M3/Ton
A	Inorganic Chemicals		
1	Tin Tetra Chloride (TTC)		
2	AlCl ₃ (25%) & AlCl ₃ (30%)		
3	Poly Aluminum Chloride		
B	Organometallic Compounds		
4	Tri n-Butyl Aluminum (TnBAL)		
5	Tetra Butyl Tin (TBT)		
6	Tetra Butyl Tin Chloride (TBTCI)		
7	Dibutyltin oxide (DBTO)		
8	CF-200		
9	Triethyl Aluminum (TEAL)		
10	Ethyl Aluminum Dichloride (EADC)		
11	Ethyl Aluminum Sesquichloride (EASC)		
12	Diethyl Aluminum Chloride (DEAC)		
13	Diethyl Aluminum Ethoxide (DEALOX)		
14	TRIISOBUTYL ALUMINUM CHLORIDE (TiBAL)		
15	DIISOBUTYL ALUMINUM HYDRIDE (DiBAL-H)		
16	2-(2, 4 Dihydroxy Phenyl)-4, 6-bis (2, 4 Diethyl Phenyl) 1, 2, 5 Triazine (P-1062)		
17	Monobutyltin Trichloride (MBTC) / Di Butyl tin Dichloride (DBTC) / Mix Butyl tin Chloride (5% to 95%)		
C	FORMULATIONS		
18	GCOAT H 110		
19	25% Dibah in Toluene		
20	TTC solution		
21	25% Tibal in hydrobrite		
22	22% Tibal in hydrobrite-380 oil		
23	One step C		
24	10%-50% TEAL in Hexane		
25	Liquid-Liquid Blending/Formulation		
D	ORGANIC CHEMICALS		
26	PE Wax (Acculin) ,XACTOWAX		
27	PE Alcohol (Acculinol)		

(ii) Raw material consumption

* Name of raw material	Name of products	Consumption of raw material per unit of output	
		During the previous financial year	During the current financial year
ATTACHED AS ANNEXURE-II			

Industry may use codes if disclosing details of raw material would violate contractual obligation, otherwise all industries have to name the raw materials used.

PART – C

**Pollution discharged to environment/unit of output
(Parameter as specified in the consent issued)**

Pollutants	Quantity of pollutants discharged (mass/day)	Concentration of pollutants in discharged (mass/volume)	Percentage of variation from prescribed standards with reasons
Water	ATTACHED AS ANNEXURE-III		
Air			

PART – D

DETAILS OF HAZARDOUS WASTES

(As specified under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016)

Hazardous Waste	Total Quantity Disposed (MT)	
	During the previous financial year	During the current financial year
From Process	DETAILS OF HAZARDOUS WASTE ATTACHED AS ANNEXURE IV	
From pollution control facilities		

PART – E

Solid Waste (DETAILS ATTACHED IN ANNEXURE- V)

	Total Quantity (MT)	
	During the previous financial year 2019-20	During the current financial year 2020-21
(a) from process	-	-
(b) From pollution control facility)	-	-
(C)		
1. Quantity recycled or re-utilized within the unit	0	0
2. Solid Waste Disposed	256.53	191.77

PART – F

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

DETAILS ATTACHED AS ANNEXURE-IV & V

PART – G

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

- Carried out Water Audit for conservation of natural resources through Confederation of Indian Industry (CII).
- MEE condensate has been reused for cooling water which has resulted in to 1.35 % reduction in cooling water consumption.
- Installed a 25 KW Solar generation plant on the terrace of Technical Block/ R&D block building of the plant. Due to the solar plant, 11.5 MT of eq. CO₂ reduction by utilization of green electricity generated in 2020-21.
- Domestic effluent is treated in a Moving Bed Biofilm Reactor (MBBR) based Sewage Treatment Plant and reused for gardening purpose. This has resulted into reduction of water consumption for domestic purpose.
- Hazardous waste with high calorific value is being disposed through GPCB approved pre-processing facilities resulting into heat recovery from waste and minimizing environmental pollution.
- Elimination of waste oil generation from 5 no. of oil seal vacuum pump by replacement of existing oil seal vacuum pump with new dry vacuum pump.

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

- Elimination of Fugitive emission from solvent storage tank vent by installation of condensers on solvent storage tank vents.
- Green belt development in newly purchased Plots #194 to198 & 327.
- Waste oil generated from compressor will be filtered , recycled & reused for other purpose so overall disposal qty of waste oil will be reduced.

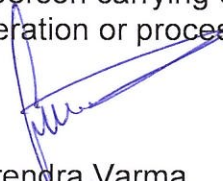
PART- I

Any other particulars for improving the quality of the environment.

- Installed 3 no. of Piezometric wells with telemetric system as per CGWA guideline for monitoring of ground water.
- Installed drip irrigation system for equal & uniform distribution of treated sewage water in green belt & conservation of natural resources.
- Online noise level instrument with data logger system installed near Flare area for continuous monitoring of noise level.
- Carries out 24X7 AAQM monitoring at two locations in plant premises with data logging system.
- implemented a Leak Detection and Repair program.
- On a regular basis, environmental monitoring is being carried out from NABL accredited laboratory and with the help of in-house facility.
- Environment, Health & Safety (EHS) round across the plant site on a monthly basis.
- 24X7 AAQM monitoring is carried out at one location in nearby village Mujpur to monitor concentration of HCl, Cl₂ & VOC in ambient air. All parameters are within limit as per AAQM standard.

Date: 28-04-2021

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


Name : Narendra Varma
Designation : Managing Director
Address : On Coastal Highway
Village: Mujpur Tal: Padra
Dist: Vadodara