



# HINDUSTHAN CHEMICALS COMPANY

(An enterprise of THE HINDUSTHAN GROUP)

CIN : U93000WB1998PLC086303

G.I.D.C. Industrial Estate, Olpad - 394540, DIST SURAT, GUJARAT (INDIA) Email : hccolp@hcc-cyanides.com

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F. HCC:TECH:17:RPS: 9

06<sup>th</sup> April, 2020.

Through Courier

The Unit Head (Surat)  
Gujarat Pollution Control Board  
Paryavaran Bhavan  
Sector – 10A  
Gandhinagar – 382 010

Sub : Environmental Audit Statement for the Financial Year ended on 31<sup>st</sup> March, 2020.

Dear Sir,

As per Notification dated 13<sup>th</sup> March, 1992 of Govt. of India, Ministry of Environment & Forests, New Delhi, we are enclosing herewith our Environmental Audit Statement for the financial year ended on 31<sup>st</sup> March, 2020 for your perusal.

We hope, you will find the same in order.

Thanking you,

Yours faithfully,  
for Hindusthan Chemicals Company



R. P. Sharma  
Asst. Vice President (Plant)

encl : a/a

c. c. : 1. The Regional Officer  
Gujarat Pollution Control Board  
338, Belgium Square, Typical 1st floor  
Silver Plaza Complex  
Near Linear Bus Stand  
Ring Road, Surat – 395 003

2. The Director (Environment)  
Ministry of Environment & Forests  
Regional Office (Western Region)  
Link Road No. 3, E-5, Arera Colony  
Bhopal - 462 016 (M.P.)

- By Regd. A/D

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PROP. : HINDUSTHAN ENGINEERING & INDUSTRIES LTD. REGD. OFFICE : MODY BUILDING, 27 SIR R.N. MUKHERJEE ROAD, KOLKATA - 700001

**FORM - V**  
**(See Rule 14)**

**ENVIRONMENTAL AUDIT REPORT FOR THE FINANCIAL YEAR ENDED ON 31<sup>ST</sup> MARCH, 2018.**

**PART - A**

1. Name and address of the Owner/  
Occupier of the industry operation  
or process : Hindusthan Chemicals Company  
Prop: Hindusthan Engineering & Industries Ltd  
GIDC Industrial Estate  
P.O. Olpad – 394 540, Dist. Surat. (Gujarat)
2. Production capacity unit : Please refer Annexure - 1.
3. Date of the last environmental : 23.06.2019

**PART – B**

**WATER AND RAW MATERIAL**

**CONSUMPTION**

1. Water Consumption M<sup>3</sup>/day
  - (A) Domestic : 8.347 M<sup>3</sup>/day
  - (B) Industrial:
    - i) Cooling & Boiler } : 283.785 M<sup>3</sup>/day
    - ii) Process, Washing & Agriculture } : 24.322 M<sup>3</sup>/day

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Total : 316.454 M<sup>3</sup>/day  
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**Name of the Products Fresh Water Consumption per unit of Products**

**During the previous Financial Year During the current Financial Year**

**(2018-2019)**

**(2019-2020)**

Please refer Annexure - 1      35.400 M3/MT of HCN      40.250 M3/MT of HCN

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**PART – C**

**POLLUTION GENERATED(Parameters as specified in the Consent Issued)**

(i)	Pollutants	Quantity of pollution generated.	Percentage of variation from prescribed standards with reasons.
	a) Water }	Please refer Annexure - 2	
	}		
	b) Air }		

**PART – D**

**HAZARDOUS WASTE**

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

Hazardous Wastes	<u>Total Quantity (Kgs.)</u>	
	During the Previous Financial Year ( 2018-2019)	During the Current Financial Year (2019 –2020)
a) From Process }	313144.00	25040.00
}		
From Pollution }		
control facilities }		

Note: Major Hazardous Waste generator product plants are kept non operational in current financial year 2019-20.

Above whole quantity was dried in impervious solid waste collection pan and then sent to M/s Bharuch Enviro Infrastructure Ltd, Ankleshwar for incineration, treatment and disposal.

**PART – E**  
**SOLID WASTES**

	<u>T o t a l Q u a n t y</u>	
	<u>During the Previous Fin. Year 2018-2019)</u>	<u>During the Current Fin. Year (2019-2020)</u>
a) From Process	Whole quantity of solid waste was dried and then sent to	Whole quantity of solid waste was dried and then sent to
b) From Pollution	M/s Bharuch Enviro Infrastructure Ltd.	M/s Bharuch Enviro Infrastructure Ltd.
c) Quantity Recycled or re-utilized	for incineration, treatment and disposal.	for incineration, treatment and disposal.

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**PART – F**

Please specify the characteristics (in terms of concentration and quantum) of Hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

**Hazardous Waste:**

i)	Activated Carbon	- Semi solid	
		Activated Carbon	-
		Water	-
		Oxidized Polymer of DPG (Loss on ignition at 500° C.)	-
ii)	Ferri Ferrocyanide	- Ferri Ferrocyanide	-
		Water	-
iii)	Ferric Hydroxide	- Ferric Hydroxide	-
		Water	-
		Sodium Ferrocyanide	-

**Solid Waste:**

i)	Contaminated Salt	Sodium Chloride	-
ii)	ETP sludge	Cyanide content	-
iii)	Residue from ZLD	Cyanide content	>2ppm

**PART – G**

Impact of the Pollution Control Measures on conservation of natural resources and consequently on the cost of production.

**Impact on conservation of natural resources**

**Impact of cost of production**

**1. Water Pollution**

We are operating our Zero Liquid Discharge Plant efficiently and no treated water is discharged by our unit. The total treated water is being recycled to Cooling Tower/In process.

An amount of Rs. 64.5 Lacs is spent annually in Effluent Treatment Plant & Zero Liquid Discharge Plant.

**2. Hazardous Waste:**

Hazardous waste get completely dried in impervious pan by solar evaporation.

Constituents present in hazardous waste was sent to M/s Bharuch Enviro Infrastructure Ltd, Ankleshwar for incineration, treatment and disposal. An amount of Rs. 48,656 was spent annually

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### **3. Air Pollution:**

The toxic gases are completely burnt in Incinerator resulting into generation of inert gases, i.e. CO<sub>2</sub>/N<sub>2</sub> and simultaneously generation of steam which is effectively used in plants. Therefore, there is no impact of conservation of natural resources.

Approx. 23,112 MT/year steam was generated in Incinerator, otherwise to generate 23,112 MT steam we would have burnt 1926 K.L. of furnace oil.

### **PART – H**

#### **Additional investment proposal for environmental protection including abatement of pollution.**

1. We are fully equipped to handle hazardous waste, liquid effluents, air pollutants and detoxicate the same conforming to the norms specified by Pollution Control Board.
2. We are having On-line Stack Monitoring Gas Analyser and records are being maintained.
3. We are having On-line TOC Meter. Records are being maintained.
4. We have installed and commissioned Zero Liquid Discharge plant on 14 03 2016 and stopped discharge of waste water to Masma Khadi from 01 04 2016. All the treated water is being recycled in Cooling Tower and in Process.
5. We are going to install on-line Ambient Air Monitoring Station shortly.

### **PART – I**

#### **Miscellaneous**

#### **Any other particulars in respect of environment protection and abatement of pollution.**

About 2500 additional trees were planted within our battery limit during monsoon season.



(R. P. Sharma)  
Asst. Vice President (Plant)

Annexure -1

PRODUCTION DETAILS

Sl No	Name of product	Consent Capacity MT/Annum	Actual production MT/Annum
1	Hydrocyanic Acid	5100	1693.300
2	Sodium Cyanide	6372	2559.288
3	Potassium Cyanide	2000	Nil
4	Sodium/Potassium Ferrocyanide	1000	Nil / Nil
5	Diphenyl Guanidine	1260	NIL
6	Sodium Dicyanamide	300	Nil
7	Mandelonitrile	2500	1213.082
8	Heat Treatment Salt	720	Nil
9	Cyanohydrines	5000	159.559
10	Nitriles	3000	Nil
11	Cyanide Based Products	3500	Nil
12	Ammonium Sulphate (By-product)	2649	935.450

**POLLUTION GENERATED**

Sr. No	Pollutants	Quantity of Pollution	Parameters	As specified in the consent issued	Percentage of variation from prescribed standard with reason
a)	<u>Water</u>	-  (We have installed Zero Liquid Discharge Plant)	pH  BOD mg/l  COD mg/l  Ammonical Nitrogen mg/l  Cyanide content mg/l.	N.A.  N.A.  N.A.  N.A.	Nil
b)	<u>Air</u>  Boiler  Incinerator	2000 M <sup>3</sup> /hr  7000 M <sup>3</sup> /hr	Suspended particulate matter (SPM) in mg/NM <sup>3</sup>  Sox (PPM)  Nox (PPM)  Cyanide as HCN (NMg/M <sup>3</sup> )  HCl (NMg/M <sup>3</sup> )	150 max.  100 max.  50 max.  30 max.  20 max.	Nil

**Note :** We are operating our Zero Liquid Discharge Plant efficiently and no treated water is discharged by our unit. The total treated water is being recycled to Cooling Tower/In process.