

FORM V (ID 17919)

From: M/s. Kutch Chemical Industries limited
Plot No. 165, 166/1-3, 167, 168, 171/1 & 172 Village: Padana, Nr. Aquagel Chemicals,
Gandhidham, Dist: Kutch.

Financial year: 2016-17

To,
Gujarat pollution Control Board,
Sector 10/A,
Gandhinagar

ENVIRONMENTAL STATEMENT for the financial year ending the 31st March 2017

PART-A

- | | | | |
|-------|---|---|--|
| (i) | Name and address of the owner/
Occupier of the Industry, operation or
process | : | Shivlal Goyal,
20-21, Sara Niwas, Harinagar Society,
Gotri road, Baroda, Gujarat-390007. |
| (ii) | Industry Category-
Primary - (STC Code)
Secondary - (STC Code) | : | Large
:
: |
| (iii) | Production Capacity Units | : | As per Annexure 1. |
| (iv) | Year Of Establishment | : | September-2004 |
| (v) | Last Environmental Statement
Submitted | : | 2015-16 |

PART-B

Water and Raw Material Consumption

(i) Water Consumption m3/day

Processing
Cooling
Domestic

As per Annexure 2

Name of Products

Process Water Consumption per unit of product output

During the previous financial year

During the current financial year

As per Annexure 1

218.028 ML

194.905 ML

(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

As per Annexure 3

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 pollution in discharges (mass/volume)

Percentage of variation from prescribed standards with reasons

(a) Water

Unit is ZLD, however quantity of treatment stream wise & stage wise of ZLD unit is tabulated as per **Annexure 4**.

(b) Air

Concentration of Air pollution is well within the prescribed standards in CC&A.

PART-D

HAZARDOUS WASTES

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

	During the previous financial year	During the current financial year
(a) From Process	--	68.4 MT
(b) From pollution control facilities	20.7 MT	66.4 MT
(c) (1) Quantity reutilized within unit	--	68.4 MT
(2) Sold	--	--
(3) Disposal	20.7 MT	106.2 MT

PART-E

SOLID WASTES

Total Quantity (kg.)

	During the previous financial year	During the current financial year
(a) From Process	--	--
(b) From pollution control facilities	--	--
(c) (1) Quantity reutilized within unit	--	--
(2) Sold	--	--
(3) Disposal	--	--

PART-F

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

PART-G

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

PART-H

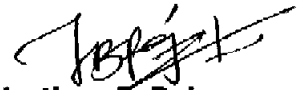
Additional measures/investment proposal for environmental protection including abatement of pollution/prevention of pollution

PART-I

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

Place: Vadodara

Date: 30.06.2017



Hastings B. Rajyaguru
Sr. Manager-Environment
Kutch Chemical Ind. Ltd.

Annexure 1: Production Details (As per CC&A)

Sr. No.	Name of Product	Total (MT/Month)
Group – 1 A		
(a) Nitro Derivatives of Hydro carbon such as		
1	Nitro Chloro Benzene	2400
2	Nitro Toluene	
3	Nitro Cumene	
4	Nitro Xylene	
5	Nitro Benzene	
(b) Amino Hydro carbon such as		
6	Chloro Aniline	500
7	Toludine	
8	Cumedine	
9	Xylidine	
10	Aniline	
Group – 1 B (Methoxylation of Nitro Chloro compound & Hydrolysis such as)		
11	Ortho Anicidine	100
12	Para Anicidine	
Group – 1 C (Amonolysis of Nitro Chloro compound & Hydrolysis such as)		
13	Ortho Nitro Aniline	100
14	Para Nitro Aniline	
15	Ortho Phylinine Di Amine	
16	Para Phylinine Di Amine	
Group – II		
17	Mono Chloro Benzene	3000
18	Di Chloro Benzene/PDCB/ODCB/TCB	
19.	Chlorinated Paraffin wax	
Group – III		
20	Acetanilide	1000
21	Vinyl Sulphone & its Derivatives	500
22	Chloro Sulfonic acid	16200
23	Formaldehyde	1200
24	D A S A	50
25	Sulfamic Acid	30
26	2-4 DNCB	30
27	2-6 DCNB	30
28	ASC	30
29	Equivalent Sulfuric Acid such as Sulfuric Acid	22500
30	Oleum 23% & 65%	3000

Sr. No.	Name of Product	Total (MT/Month)
31	Liq. SO3 (70% to 90%)	7500
32	Dimethyl Sulphate	100
33	Thionyl Chloride	5000
34	Sulphur Monochloride	200
35	Sulphuryl Chloride	200
36	Sodium Bisulphate	3000
37	Calcium Chloride	4000
38	Aluminium Sulphate	1000
39	Woven Bags (kgs/Day)	5000
40	Power Plant	2.5 MW (FO)
41	Ice Plant (MT/Day)	180
42	Gypsum	1200

Annexure 2: Water Consumption (Year 2016-17)

Sr. No.	Months	Domestic (KL/M)	Industrial (KL/M)	
			Cooling & Boiler	Process & washing
1	April-2016	383	8264	5933
2	May-2016	387	9543	7901
3	June-2016	323	7874	7125
4	July-2016	341	9365	6804
5	August-2016	362	10148	6926
6	September-2016	374	9394	6353
7	October-2016	358	9961	6692
8	November-2016	347	9571	6877
9	December-2016	339	9982	7012
10	January-2017	351	10249	6355
11	February-2017	327	7681	3442
12	March-2017	379	9634	7548
Total		4271	111666	78968
Average		356	9306	6581

Annexure 3: Raw Material Details

Sr. No.	Raw Material	Quantity (RM of Kg / Product of 1MT)
1	Nitro Derivatives of Hydro carbon such as Nitro Chloro Benzene/ Nitro Toluene/Nitro Cumene/ Nitro Xylene Nitro Benzene	
1.1	Chloro Benzene/ Hydrocarbon etc.	700kg
1.2	Nitric Acid	500kg
1.3	Sulphuric Acid	400kg
2	Amino Hydro carbon such as Choro Aniline/ Toludine/ Cumidine/Xylidine/Aniline	
2.1	Nitro Compound	1300kg
2.2	Hydrogen gas	650Nm3
3	Methoxylation of Nitro Chloro Compound & Hydrolysis such as Ortho Anicidine/Para Anicidine	
3.1	Nitro Chloro Compound	1500kg
3.2	Caustic	400kg
3.3	Sulphur	300kg
3.4	Methanol	370kg
4	Amonolysis of Nitro Chloro Compound & Hydrolysis such as ONA, PNA, Ortho Phylinine Di Amine, Para Phylinine Di Amine	
4.1	Nitro Chloro Compound	1170kg
4.2	Ammonia	300kg
5	Mono Chloro Benzene	
5.1	Benzene	690kg
5.2	Chlorine	650kg
6	Di Chloro Benzene	
6.1	Benzene	530kg
6.2	Chlorine	930kg
7	Chlorinated Parafin Wax	
7.1	Heavy Normal Parafin	450kg
7.2	Chlorine	1200kg
8	Acetanilide	
8.1	Aniline	690kg
8.2	Acitic Acid	450kg
9	Vinyle Sulphone & its Derivatives	
9.1	Acetanilide	600kg
9.2	CSA	1920kg

Sr. No.	Raw Material	Quantity (RM of Kg / Product of 1MT)
9.3	Thionyl Chloride	630kg
9.4	Ice	3640kg
9.5	SBS	500kg
9.6	Caustic Lye	500kg
9.7	Ethylene Oxide	250kg
9.8	Sulfuric Acid	570kg
10	Chloro Sulphonic Acid	
10.1	Liq. SO ₃	690kg
10.2	HCl gas	310kg
11	Formaldehyde	
11.1	Methanol	1140kg
11.2	Catalyst	100kg
12	DASA	
12.1	PPD/PNA	600kg
12.2	ASC	800kg
12.3	Soda Ash	260kg
12.4	Caustic	100kg
13	Sulfanilic Acid	
13.1	Aniline	530kg
13.2	Sulfuric Acid	570kg
14	Oleum/Sulfuric Acid	
14.1	Sulphur	350kg
15	DMS	
15.1	Methanol	550kg
15.2	SO ₃ gas	450kg
16	Thionyl chloride	
16.1	Sulphur	180kg
16.2	Chlorine	590kg
16.3	SO ₃ gas	230kg
17	Sulphur Monochloride	
17.1	Sulphur	480kg
17.2	Chlorine	520kg
18	Sulphuryl Chloride	
18.1	Sulphur	80kg
18.2	Chlorine	520kg
18.3	SO ₃ gas	400kg
19	Sodium Bisulphate	

Sr. No.	Raw Material	Quantity (RM of Kg / Product of 1MT)
19.1	Sodium Carbonate	460kg
19.2	Sulphur dioxide	550kg
20	Calcium Chloride	
20.1	Calcium Carbonate/Lime Stone	900kg
20.2	HCl (liq.)	2000kg
21	Aluminium Sulphate	
21.1	Aluminium Hydroxide	460kg
21.2	Sulphuric Acid	860kg

Annexure 4: Quantity of waste water treated stream wise & stage wise (Year 2016-17)

Sr. No.	Month	Waste Water Generation (KL/Month)			
		Treated in ETP	Treated into MEE	Condensate Recovery	Treated into Incinerator
1	April-2016	1357.6	1357.6	1086.1	207.4
2	May-2016	1194.1	1194.1	955.3	237.6
3	June-2016	1197.3	1197.3	957.8	223.2
4	July-2016	1363.3	1363.3	1090.6	223.4
5	August-2016	1185.6	1185.6	948.5	238.8
6	September-2016	1352.1	1352.1	1081.7	222.9
7	October-2016	1367.3	1367.3	1093.8	204.2
8	November-2016	511.1	511.1	408.9	118.8
9	December-2016	262.2	262.2	209.8	29.8
10	January-2017	1025.9	1025.9	820.7	107.5
11	February-2017	1160.6	1160.6	928.5	187.0
12	March-2017	2069.8	2069.8	1655.9	259.7
Total		14046.9	14046.9	11237.5	2260.3