COMPLIANCE STATUS REPORT OF EC

EC issued vide letter No. J-11011/583/2010/1-A/-II [I]dated 30th August, 2012

M/s. Hemani Intermediates Pvt. Ltd., proposes expansion of Pesticides Manufacturing Plant (620 MTPM to 1862 MTPM) at Plot No.CH-5, GIDC Industrial Estate, Dahej, Taluka Vagra, District Bharuch, Gujarat. Plant will be operated for 330 days. Total project area is 52,432.22 m^2. Narmada River is flowing at 1.8 km. Total project cost is Rs. 50.00 Crores. List of the proposed products and their capacity is given below.

SR. NO.	NAME	TYPE OF PRODUCT	EXISTING CAPACITY (MT/MONTH)	ADDITIONAL PROPOSED CAPACITY (MT/MONTH)	TOTAL AFTER PROPOSED EXPANSION (MT/MONTH)
1	m-Phenoxy Benzaldehyde (MPBAD)	Organic Intermediate	300	-	300
2	m-Bromo Nitrobenzene	Organic Intermediate	80	20	100
3	m-Bromo Anisole	Organic Intermediate	50	50	100
4	Lambda-Cyhalothrin	Pesticide	40 (Lambda-Cyhalothrin)	10 (Lambda-Cyhalothrin)	50
	or Deltamethrin Tech.		-	12	12
5	DV-Acid Chloride/ CMAC	Pesticide Intermediate	-	200	200
6	Cypermethrin Tech.	Pesticide	-	150	150
7	Alphamethrin Tech./ Permethrin Tech.	Pesticide	-	100	100
	or Acephate Tech.		-	100	100
8	Metamitron Tech. / Glyphosate Tech.	Pesticide	-	100	100
	or Other Herbicides				
TOTAL			**470**	**742**	**1212**
9	Thionyl Chloride	Inorganic Intermediate	-	450	450
10	Sulphur chloride1	Inorganic Intermediate	-	100	100
11	Acid chlorides like Valeroyl chloride, Phenyl acetyl chloride2	Inorganic Intermediate	-	100	100
TOTAL			-	650	650

GRAND TOTAL			**470**	**1392**	**1862**
12	CPP	Power generation	1.5 MW	--	1.5 MW

Note:-

1. Sulphur chloride is included as intermediate product. It is saleable in rubber and agrochemical industries.
2. Acid chlorides are included due to production of Thionyl Chloride. Acid Chlorides may be produced.

BY-PRODUCTS

SR. NO.	NAME	TYPE OF PRODUCT	EXISTING CAPACITY (MT/MONTH)	ADDITIONAL PROPOSED CAPACITY (MT/MONTH)	TOTAL AFTER PROPOSED EXPANSION (MT/MONTH)
13	30% HCl	By-Product	---	13.75	13.75
14	Sodium Sulfite 80% (wet cake)	By-Product	---	405.25	405.25
15	Ammonium Chloride 75-80% wet cake/20% Solution	By-Product	---	100/425	100/425
16	Cupric Chloride Solution	By-Product	---	85	85
17	Aluminum Chloride Solution 25%	By-Product	1500	---	1500
18	KCL Solution 20%	By-Product	750	---	750
19	Spent Sulphuric Acid 55%	By-Product	480	120	600
20	Bromobenzene	By-Product	---	54.5	54.5
21	HBr	By-Product	---	18.9	18.9

Bag filter along with stack of adequate height will be provided to coal fired boiler. Adequate scrubbing system will be provided to the process vents to control process emissions viz. SO_2, HCl, H_2S and Cl_2. In order to control odour, outlet of process vents will be connected to the incinerator.

Total fresh water requirement from GIDC water supply will be increased from 1300 m^3/day to 2100 m^3/day after expansion. Industrial wastewater generation after expansion will be 921 m^3/day and segregated into high COD/organic waste, high COD/TDS and low COD/TDS effluent streams. High COD/organic waste/ toxic aqueous effluent will be incinerated. High COD/TDS effluent stream will be passed through stripper and evaporated through MEE. Low COD/TDS effluent stream will be treated in effluent treatment plant (ETP) and treated effluent will be discharged to deep sea through a GIDC conveyance pipeline after conforming to the standards prescribed for the effluent discharge and obtaining permission from the GPCB. Incinerator will be designed as per CPCB guidelines.

Incinerated ash, ETP sludge and MEE residue salt will be sent to treatment storage disposal facility (TSDF) for hazardous waste. Organic process waste and spent carbon will be incinerated. Waste oil/spent oil will be sold to registered recyclers/re-processors. Fly ash will be sent to brick manufacturers/cement kiln.

No	Brief Specification	Action Plan (Compliance Report)
A		
I	All the Specific Conditions and general conditions specified in the Environmental Clearance letter accorded vide Ministry's Letter no. J-11011/442/2008-IA.II (I) dated 25th October, 2008 shall be implemented.	Complied all conditions as per below points. **In view of the compliance status presented by the PP against each of the stipulated conditions of the said EC, the overall compliance of the stipulated condition is considered complied subject to condition.** **COMPLIED SUBJECT TO CONDITION**
II	As proposed, Company shall install online stack monitoring system, HC detectors, LDR system, and smoke detector along with alarm system in the existing unit. All pollution control and monitoring equipments shall be installed, tested and interlocked with the process. Company shall not start operation of the expansion unit unless the pollution control equipments are ready and running. SPCB shall grant 'Consent to Operate' after ensuring that all the mentioned pollution control equipments have been installed.	We have installed the on line stack monitoring system and link with CPCB cloud server, HC detectors, LDR system, and smoke detector along with alarm system in the existing unit. All pollution control and monitoring equipments are installed, tested and interlocked with the process. Till the date, such type of situation is not happened but whenever this type of situation will happen, Company shall not start operation of the expansion unit unless the pollution control equipments are ready and running. We have obtained Consent to Operate from GPCB vide letter no. AWH-71059 dated 02/05/2015 and valid upto 14/07/2020. (As Annexure-1) **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**

<table>
<tr><td></td><td></td><td></td></tr>
<tr><td>III</td><td>National Emission Standards for Pesticide Manufacturing and Formulation Industry issued by the Ministry vide G.S.R. 46(E) dated 3rd February, 2006 and amended time to time shall be followed by the unit.</td><td>We follow the National Emission Standard for Pesticide manufacturing and Formulation Industry as per GSR. 46(E) dated 3rd February 2006.

Company is manufacturing the DV Acid Chloride and HCl, SO2 & Cl2 pollutants are generated as per National Emission Standards for Pesticide Manufacturing.

Earlier month analysis the emission level by third party. M/s. Green Leaf Envirotech Pvt. Ltd. (Recognized NABL Laboratories no. NABL/T-3216 dated 26/04/2017). Now M/s. Green Leaf Envirotech Pvt. Ltd. is discontinuous and appointed new Third party - M/s. Kalpataru Pollution Control (Recognized NABL Laboratories no. NABL/T-7984 dated 10/10/2018 and valid upto 09/10/2020).

Results are given below:
Month –July,2017- September ,2017
<table>
<tr><th rowspan="2">Sr. No.</th><th rowspan="2">Parameter</th><th colspan="3">Result mg/Nm3</th><th rowspan="2">GPCB Norms mg/Nm3</th></tr>
<tr><th>Min</th><th>Max</th><th>Avg</th></tr>
<tr><td>1.</td><td>SO2</td><td>5.29</td><td>18.71</td><td>10.75</td><td>40 mg/Nm3</td></tr>
<tr><td>2.</td><td>HCl</td><td>2.96</td><td>8.18</td><td>5.20</td><td>20 mg/Nm3</td></tr>
<tr><td>3.</td><td>CL2</td><td>1.05</td><td>5.00</td><td>3.45</td><td>09 mg/Nm3</td></tr>
</table>
Month – October,2017-February,2018
<table>
<tr><th rowspan="2">Sr. No.</th><th rowspan="2">Parameter</th><th colspan="3">Result mg/Nm3</th><th rowspan="2">GPCB Norms mg/Nm3</th></tr>
<tr><th>Min</th><th>Max</th><th>Avg</th></tr>
<tr><td>1.</td><td>SO2</td><td>5.68</td><td>8.06</td><td>6.95</td><td>40 mg/Nm3</td></tr>
<tr><td>2.</td><td>HCl</td><td>2.6</td><td>4.63</td><td>3.59</td><td>20 mg/Nm3</td></tr>
<tr><td>3.</td><td>CL2</td><td>1.18</td><td>3.88</td><td>2.62</td><td>09 mg/Nm3</td></tr>
</table>
</td></tr>
</table>

Now We have appointed Third party- M/s. Kalpataru Pollution Control (Recognized NABL Laboratories no. NABL/T-7984 dated 10/10/2018 and valid upto 09/10/2020) and Consultant is recognized by Gujarat Pollution Control Board for stack monitoring on regular basis.

Month – March,2018- September ,2018

Sr. No.	Parameter	Result mg/Nm^3			GPCB Norms mg/Nm^3
		Min	Max	Avg	
1.	CL2	<5	<5	<5	09
2.	HCl	<1	<1	<1	20
3.	HBr	<0.1	<0.1	<0.1	05
4.	SO2	13.17	16.24	15.17	40

Month – October,2018-February,2019

Sr. No.	Parameter	Result mg/Nm^3			GPCB Norms mg/Nm^3
		Min	Max	Avg	
1.	CL2	<5	<5	<5	09
2.	HCl	<1	<1	<1	20
3.	HBr	<0.1	<0.1	<0.1	05
4.	SO2	12.73	18.29	14.66	40

ND: Not Detectable

<table>
<tr><td></td><td></td><td>All parameters of National Emission Standards for Pesticide Manufacturing and Formulation Industry are found within the norms.
In view of the information furnished by the PP, the stipulated condition is considered complied subject to submission of detailed compliance to the national emission standards for pesticide industries notified by MoEFCC vide G.S.R.446 E dated 13th June, 2011.
COMPLIED SUBJECT TO CONDITION</td></tr>
<tr><td>IV</td><td>Bag filter along with stack of adequate height shall be provided to coal fired boiler to control particulate emissions within 50 mg/Nm^3.</td><td>Company has removed the bag filter from coal fired boiler. Now company has installed the ESP to coal fired boiler to control particulate emissions.
We need to amend the condition and limit of PM as 150 mg/Nm^3 at par with all other industries having coal fired boilers.
Every month analysis the emission level by third party. Third party- M/s. Kalpataru Pollution Control (Recognized NABL Laboratories no. NABL/T-7984 dated 10/10/2018 and valid upto 09/10/2020) and Consultant is recognized by Gujarat Pollution Control Board.

Month – July, 2017 to September, 2017
<table>
<tr><th rowspan="2">S. No.</th><th rowspan="2">Parameter</th><th colspan="3">Result - mg/Nm^3</th><th rowspan="2">NAAQS Norms mg/Nm^3</th></tr>
<tr><th>Min</th><th>Max</th><th>Avg</th></tr>
<tr><td>1.</td><td>PM (µg/m^3)</td><td>104.57</td><td>107.23</td><td>105.50</td><td>150</td></tr>
</table>
Month – October,2017-March, 2018
<table>
<tr><th rowspan="2">S. No.</th><th rowspan="2">Parameter</th><th colspan="3">Result - mg/Nm^3</th><th rowspan="2">NAAQS Norms mg/Nm^3</th></tr>
<tr><th>Min</th><th>Max</th><th>Avg</th></tr>
<tr><td>1.</td><td>PM (µg/m^3)</td><td>103.19</td><td>111.62</td><td>106.44</td><td>150</td></tr>
</table>
Month – March,2018 to September, 2018
<table>
<tr><th rowspan="2">S. No.</th><th rowspan="2">Parameter</th><th colspan="3">Result - mg/Nm^3</th><th rowspan="2">NAAQS Norms mg/Nm^3</th></tr>
<tr><th>Min</th><th>Max</th><th>Avg</th></tr>
<tr><td>1.</td><td>PM (µg/m^3)</td><td>109.5</td><td>115.8</td><td>112.6</td><td>150</td></tr>
</table>
October,2018 to March, 2019
<table>
<tr><th rowspan="2">S. No.</th><th rowspan="2">Parameter</th><th colspan="3">Result-mg/Nm^3</th><th rowspan="2">NAAQS Norms mg/Nm^3</th></tr>
<tr><th>Min</th><th>Max</th><th>Avg</th></tr>
</table></td></tr>
</table>

		<table><tr><td>1.</td><td>PM (µg/m^3)</td><td>105.6</td><td>113.5</td><td>108.5</td><td>150</td></tr></table> Level of PM is found within the GPCB standard. **In view of the information furnished by the PP and the stack monitoring data showing that the unit is meeting the GPCB standard for stack emissions and not the standard stipulated in the EC but the amendment requirement mentioned herein, the stipulated condition is considered complied subject to needful amendment in EC by the EC issuing authority.** **COMPLIED SUBJECT TO NEEDFUL AMENDMENT IN EC BY THE EC ISSUING AUTHORITY**
V	Adequate scrubbing arrangement should be provided to process vents to control SO_2, HCl, H_2S, Cl_2 etc. The scrubbing solution shall be sent to effluent treatment plant (ETP) for treatment. Efficiency of scrubber shall be monitored regularly and maintained properly. Scrubbers vent shall be provided with on-line detection and alarm system to indicate higher than permissible value of controlled parameters. At no time, the emission levels shall go beyond the prescribed standards. The system shall be interlocked with the pollution control equipments so that in case of any increase in pollutants beyond permissible limits, plant shall be automatically stopped. Stack monitoring shall be done regularly and report shall be submitted to Gujarat Pollution Control Board (GPCB) and the Ministry's regional office at Bhopal.	We have provided the adequate scrubbing arrangement to process vents to control SO_2, HCl, H2S, Cl_2 etc. We have provided 20m^2 graphite absorber for HCl scrubber in series. HCl is recycling in TBA process. We are produced Valuable products like sodium Sulphite & sodium bi Sulphite by using series of scrubber of SO_2. Observed the efficiency of scrubber and monitored regularly and maintained record. We are sending it to MEE for further treatment. Efficiency of scrubber is monitored regularly and maintained properly. We have provided the on line detection system and it shall be connected in CPCB server. We have also provided the alarm/hooter system to indicate higher than permissible value of controlled parameters. We have control the emission levels and maintain beyond permissible limits. In case of any increase in pollutants beyond permissible limits, Company has automatic system to stop the plant. Company has submitted the stack monitoring report to Regional Office, MoEFCC, Bhopal period from July, 2017 to February, 2018. Hereby, company is submitting the stack monitoring report from March, 2018 to March, 2019 and also ready uploaded the soft copy on www.envfor.nic.in. Earlier Stack monitoring carried out by M/s. Green Leaf Envirotech Pvt. Ltd. (Recognized NABL Laboratories no. NABL/T-3216 dated 26/04/2017).

Month of July-September, 2017 (Boiler)

Parameter	Result			GPCB Norms
	Min	Max	Avg	
PM	11.30	42.18	39.4	150 mg/Nm^3
SO2	5.84	11.23	9.98	100 ppm
NOx	4.43	14.62	12.27	50 ppm

Month of July-September, 2017 (TFH)

Parameter	Result			GPCB Norms
	Min	Max	Avg	
PM	10.08	12.12	11.00	150 mg/Nm^3
SO2	5.16	6.47	5.75	100 ppm
NOx	3.08	5.28	4.10	50 ppm

Month of July-September, 2017 (Reactor-1)

Parameter	Result			GPCB Norms
	Min	Max	Avg	
SO2	5.29	7.18	6.75	40 mg/Nm^3
NOx	4.62	5.16	5.04	25 mg/Nm^3
HCl	2.96	3.80	3.08	20 mg/Nm^3
Cl2	1.05	3.45	3.22	09 mg/Nm^3
H2S	1.34	2.34	1.51	45 mg/Nm^3
HC	1.35	1.64	1.46	15 mg/Nm^3

Month of July-September, 2017 (Reactor-2)

Parameter	Result			GPCB Norms
	Min	Max	Avg	
SO2	6.24	8.18	7.45	40 mg/Nm^3
NOx	4.62	4.88	4.63	25 mg/Nm^3
HCl	1.82	3.17	2.50	20 mg/Nm^3
Cl2	1.26	2.01	1.48	09 mg/Nm^3
H2S	1.26	1.51	1.43	45 mg/Nm^3
HC	ND	ND	ND	15 mg/Nm^3

Month of July-September, 2017 (Incinerator)

Parameter	Result			GPCB Norms
	Min	Max	Avg	
PM	--	--	46.90	150 mg/Nm^3
SO2	--	--	18.65	40 mg/Nm^3
NOx	--	--	12.32	25 mg/Nm^3
HCL	--	--	3.24	20 mg/Nm^3
HF	--	--	1.13	4 mg/Nm^3
CO	--	--	2.2	150 mg/Nm^3
TOC	--	--	ND	20 mg/Nm^3

Cd	--	--	0.024	0.05 mg/Nm^3	
Hg	--	--	ND	0.05 mg/Nm^3	
Sb+As+Pb+Cr+Cu+ Mn+ Ni	--	--	0.185	0.5 mg/Nm^3	

Month of October,2017-March, 2018 (Boiler)

Parameter	Result			GPCB Norms
	Min	Max	Avg	
PM	33.9	43.81	38.45	150 mg/Nm^3
SO2	8.74	11.67	9.18	100 ppm
NOx	9.66	14.32	12.97	50 ppm

Month of October,2017-March, 2018 (TFH)

Parameter	Result			GPCB Norms
	Min	Max	Avg	
PM	12.12	17.33	15.34	150 mg/Nm^3
SO2	7.02	11.48	9.50	100 ppm
NOx	5.85	8.61	6.52	50 ppm

Month of October,2017-March, 2018 (Reactor-1)

Parameter	Result			GPCB Norms
	Min	Max	Avg	
SO2	5.68	8.06	6.32	40 mg/Nm^3
NOx	4.22	6.15	5.24	25 mg/Nm^3
HCl	3.21	4.22	3.68	20 mg/Nm^3
Cl2	1.18	3.88	2.14	09 mg/Nm^3
H2S	1.43	2.43	2.16	45 mg/Nm^3
HC	ND	2.69	1.26	15 mg/Nm^3

Month of October,2017-March, 2018 (Reactor-2)

Parameter	Result			GPCB Norms
	Min	Max	Avg	
SO2	7.34	8.64	7.78	40 mg/Nm^3
NOx	3.24	5.39	4.62	25 mg/Nm^3
HCl	2.65	4.63	3.69	20 mg/Nm^3
Cl2	2.14	3.22	2.53	09 mg/Nm^3
H2S	1.17	2.37	1.79	45 mg/Nm^3
HC	ND	ND	ND	15 mg/Nm^3

Month of October,2017-March, 2018 (Incinerator)

Parameter	Result			GPCB Norms
	Min	Max	Avg	
PM	33.48	50.64	45.15	150 mg/Nm^3

SO2	14.6	19.24	16.42	40 mg/Nm^3	
NOx	8.15	10.4	8.35	25 mg/Nm^3	
HCL	2.45	4.11	3.68	20 mg/Nm^3	
HF	1.02	1.27	1.12	4 mg/Nm^3	
CO	1.29	1.65	1.33	150 mg/Nm^3	
TOC	ND	ND	ND	20 mg/Nm^3	
Cd	0.018	0.021	0.019	0.05 mg/Nm^3	
Hg	ND	ND	ND	0.05 mg/Nm^3	
Sb+As+Pb+Cr+Cu+ Mn+ Ni	0.162	0.195	0.179	0.5 mg/Nm^3	

We have appointed Third party- M/s. Kalpataru Pollution Control (Recognized NABL Laboratories no. NABL/T-7984 dated 10/10/2018 and valid upto 09/10/2020) and Consultant is also recognized by Gujarat Pollution Control Board for stack monitoring on regular basis.

Results are given below:

Month of March-September, 2018 (Boiler)

Parameter	Result			GPCB Norms
	Min	Max	Avg	
PM	28.59	40.13	34.94	150 mg/Nm^3
SO2	9.96	11.83	10.84	100 ppm
NOx	11.36	13.13	12.15	50 ppm

Month of March-September, 2018 (TFH)

Parameter	Result			GPCB Norms
	Min	Max	Avg	
PM	14.13	19.35	16.16	150 mg/Nm^3
SO2	6.25	12.06	9.50	100 ppm
NOx	8.94	14.63	10.95	50 ppm

Month of March-September, 2018 (Reactor-1)

Parameter	Result			GPCB Norms
	Min	Max	Avg	
SO2	5.32	8.78	7.53	40 mg/Nm^3
NOx	3.23	6.14	5.00	25 mg/Nm^3
HCl	1.18	3.84	2.50	20 mg/Nm^3
Cl2	1.12	1.93	1.48	09 mg/Nm^3
H2S	1.13	3.07	2.15	45 mg/Nm^3
HC	1.18	2.81	1.96	15 mg/Nm^3

Month of March-September, 2018 (Reactor-2)

Parameter	Result			GPCB Norms
	Min	Max	Avg	
SO2	6.95	8.38	7.36	40 mg/Nm^3
NOx	4.07	6.55	5.45	25 mg/Nm^3
HCl	2.66	4.72	3.50	20 mg/Nm^3
Cl2	2.23	2.85	2.49	09 mg/Nm^3
H2S	1.15	4.11	1.93	45 mg/Nm^3
HC	ND	ND	ND	15 mg/Nm^3

Month of March-September, 2018 (Incinerator)

Parameter	Result			GPCB Norms
	Min	Max	Avg	
PM	38.74	43.52	41.39	150 mg/Nm^3
SO2	13.5	14.1	13.5	40 mg/Nm^3
NOx	9.2	10.2	9.45	25 mg/Nm^3
HCL	2.57	3.17	3.00	20 mg/Nm^3
HF	1.04	1.47	1.25	4 mg/Nm^3
CO	1.55	2.13	1.95	150 mg/Nm^3
TOC	ND	ND	ND	20 mg/Nm^3
Cd	0.018	0.02	0.019	0.05 mg/Nm^3
Hg	ND	ND	ND	0.05 mg/Nm^3
Sb+As+Pb+Cr+Cu+ Mn+ Ni	0.161	0.165	0.163	0.5 mg/Nm^3

Month of March-September, 2018 (Reactor-3)

Parameter	Result			GPCB Norms
	Min	Max	Avg	
Br2	<0.1	<0.1	<0.1	30 mg/Nm^3

Note: ND=Not Detection

Month of October,2018-March, 2019 (Boiler)

Parameter	Result			GPCB Norms
	Min	Max	Avg	
PM	25.45	38.62	31.34	150 mg/Nm^3
SO2	10.24	12.52	11.99	100 ppm
NOx	9.31	12.24	10.15	50 ppm

Month of October,2018-March, 2019 (TFH)

Parameter	Result			GPCB Norms
	Min	Max	Avg	
PM	11.21	17.56	15.73	150 mg/Nm^3
SO2	7.17	10.84	8.24	100 ppm
NOx	10.12	11.92	11.38	50 ppm

Month of October,2018-March, 2019 (Reactor-1)

Parameter	Result			GPCB Norms
	Min	Max	Avg	
SO2	7.37	9.54	8.22	40 mg/Nm^3
NOx	4.23	6.14	5.68	25 mg/Nm^3
HCl	2.85	4.06	3.54	20 mg/Nm^3
Cl2	1.37	1.84	1.69	09 mg/Nm^3
H2S	1.12	2.34	1.71	45 mg/Nm^3
HC	1.09	2.71	1.59	15 mg/Nm^3

Month of October,2018-March, 2019 (Reactor-2)

Parameter	Result			GPCB Norms
	Min	Max	Avg	
SO2	5.57	7.84	6.83	40 mg/Nm^3
NOx	2.64	8.79	5.12	25 mg/Nm^3
HCl	2.46	4.51	3.11	20 mg/Nm^3
Cl2	1.37	2.46	2.14	09 mg/Nm^3
H2S	1.15	1.89	1.61	45 mg/Nm^3
HC	ND	ND	ND	15 mg/Nm^3

Month of October,2018-March, 2019 (Incinerator)

Parameter	Result			GPCB Norms
	Min	Max	Avg	
PM	35.46	43.12	39.73	150 mg/Nm^3
SO2	11.2	13.1	12.8	40 mg/Nm^3
NOx	8.89	11.8	9.93	25 mg/Nm^3
HCL	3.68	4.18	3.77	20 mg/Nm^3
HF	1.37	1.62	1.50	4 mg/Nm^3
CO	1.22	1.48	1.29	150 mg/Nm^3
TOC	ND	ND	ND	20 mg/Nm^3
Cd	0.012	0.018	0.024	0.05 mg/Nm^3
Hg	ND	ND	ND	0.05 mg/Nm^3
Sb+As+Pb+Cr+Cu+ Mn+ Ni	0.151	0.164	0.159	0.5 mg/Nm^3

Month of October,2018-March, 2019 (Reactor-3)

		<table><tr><th>Parameter</th><th colspan="3">Result</th><th>GPCB Norms</th></tr><tr><th></th><th>Min</th><th>Max</th><th>Avg</th><th></th></tr><tr><td>Br2</td><td><0.1</td><td><0.1</td><td><0.1</td><td>30 mg/Nm^3</td></tr></table> **Note: ND=Not Detection** As per above result mentioned in table, All parameters of stack/vents are found within the Norms. Efficiency of scrubber is monitored regularly and maintained properly and as per above result mentioned in table, efficiency of scrubber is adequate. **In view of the information furnished by the PP and the monitoring results showing that all the parameters are well within the stipulated norms, the stipulated condition is considered complied.** **COMPLIED**
VI	In order to control odor, outlet of process vents shall be connected to the incinerator.	We have taken adequate measures for control of odor nuisance from the plant premises, the details of which are as follows: Provided closed system during handling of chemicals. Substance of similar or dissimilar chemical constitution may have similar odors. Nature and strength of odor may change on dilution. · Weak odors are not perceived in presence of strong odors. · Odors of same strength blend to produce a combination in, which one or both may be unrecognizable. · Constant intensity of odors causes an individual to quickly loose awareness of the sensation and only noticed when it varies in intensity. · Fatigue for one odor may not affect the perception of dissimilar odors but will interfere with the perception of similar odors. · An unfamiliar odor is more likely to cause complaint than a familiar one. · Two or more odorous substances may cancel the smell of each other. · Odors travel downwind. · Person can smell a distance. Many animals have keener sense of olfaction than man.

		• **Now Outlet of process vent is connected to the incinerator.** • **Company has already installed the venturi scrubber followed by packed bed scrubber followed by droplet separator to process vent of incinerator.**  **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**

<table>
<tr>
<td>VII</td>
<td>The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed by the unit.</td>
<td>Earlier Ambient Air quality carried out by Third party- M/s. Green Leaf Envirotech Pvt. Ltd. (Recognized NABL Laboratories no. NABL/T-3216 dated 26/04/2017).

Now We have appointed Third party- M/s. Kalpataru Pollution Control (Recognized NABL Laboratories no. NABL/T-7984 dated 10/10/2018 and valid upto 09/10/2020) and Consultant is recognized by Gujarat Pollution Control Board for ambient air monitoring on regular basis as per National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009.

Month – March,2018 to September, 2018
<table>
<tr><th rowspan="2">S. No.</th><th rowspan="2">Parameter</th><th colspan="3">Result mg/Nm³</th><th rowspan="2">NAAQS Norms mg/Nm³</th></tr>
<tr><th>Min</th><th>Max</th><th>Avg</th></tr>
<tr><td>1.</td><td>PM10 (µg/m³)</td><td>72.55</td><td>75.12</td><td>73.78</td><td>100</td></tr>
<tr><td>2.</td><td>PM2.5 (µg/m³)</td><td>42.16</td><td>44.62</td><td>43.69</td><td>60</td></tr>
<tr><td>3.</td><td>SO2 (µg/m³)</td><td>13.17</td><td>16.24</td><td>15.17</td><td>80</td></tr>
<tr><td>4.</td><td>NOx (µg/m³)</td><td>16.14</td><td>17.55</td><td>16.75</td><td>80</td></tr>
<tr><td>5.</td><td>NH3 (µg/m³)</td><td>6.94</td><td>9.78</td><td>8.11</td><td>400</td></tr>
<tr><td>6.</td><td>CL2 (µg/m³)</td><td><5</td><td><5</td><td><5</td><td>100</td></tr>
<tr><td>7.</td><td>H2S (µg/m³)</td><td>BDL</td><td>BDL</td><td>BDL</td><td>500</td></tr>
<tr><td>8.</td><td>HF (µg/m³)</td><td><1</td><td><1</td><td><1</td><td>60</td></tr>
<tr><td>9.</td><td>HCL (µg/m³)</td><td>4.08</td><td>5.24</td><td>4.59</td><td>200</td></tr>
<tr><td>10.</td><td>CS2 (µg/m³)</td><td>BDL</td><td>BDL</td><td>BDL</td><td>2000</td></tr>
<tr><td>11.</td><td>CO (µg/m³)</td><td>BDL</td><td>BDL</td><td>BDL</td><td>04</td></tr>
</table>
</td>
</tr>
</table>

12.	Pb (µg/m³)	BDL	BDL	BDL	1.0
13.	C6H6 (µg/m³)	BDL	BDL	BDL	05
14.	BaP (ng/m³)	BDL	BDL	BDL	01
15.	As (ng/m³)	BDL	BDL	BDL	06
16.	Ni (ng/m³)	BDL	BDL	BDL	20
17.	HC(µg/m³)	<1	<1	<1	160
18.	HBr (µg/m³)	**<5**	**<5**	**<5**	30

Month – October,2018-March, 2019

S. No.	**Parameter**	**Result mg/Nm³**			**NAAQS Norms mg/Nm³**
		Min	**Max**	**Avg**	
1.	PM10 (µg/m³)	72.85	75.65	73.87	100
2.	PM2.5 (µg/m³)	41.58	44.43	42.50	60
3.	SO2 (µg/m³)	12.73	18.29	14.66	80
4.	NOx (µg/m³)	13.98	22.34	17.35	80
5.	NH3 (µg/m³)	8.67	9.67	9.11	400
6.	CL2 (µg/m³)	<5	<5	<5	100
7.	H2S (µg/m³)	BDL	BDL	BDL	500
8.	HF (µg/m³)	<1	<1	<1	60
9.	HCL (µg/m³)	4.08	5.24	4.59	200

<table>
<tr>
<td></td>
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<table>
<tr><td>10.</td><td>CS2 (µg/m³)</td><td>BDL</td><td>BDL</td><td>BDL</td><td>2000</td></tr>
<tr><td>11.</td><td>CO (µg/m³)</td><td>BDL</td><td>BDL</td><td>BDL</td><td>04</td></tr>
<tr><td>12.</td><td>Pb (µg/m³)</td><td>BDL</td><td>BDL</td><td>BDL</td><td>1.0</td></tr>
<tr><td>13.</td><td>C6H6 (µg/m³)</td><td>BDL</td><td>BDL</td><td>BDL</td><td>05</td></tr>
<tr><td>14.</td><td>BaP (ng/m³)</td><td>BDL</td><td>BDL</td><td>BDL</td><td>01</td></tr>
<tr><td>15.</td><td>As (ng/m³)</td><td>BDL</td><td>BDL</td><td>BDL</td><td>06</td></tr>
<tr><td>16.</td><td>Ni (ng/m³)</td><td>BDL</td><td>BDL</td><td>BDL</td><td>20</td></tr>
<tr><td>17.</td><td>HC(µg/m³)</td><td><1</td><td><1</td><td><1</td><td>160</td></tr>
<tr><td>18.</td><td>HBr (µg/m³)</td><td><5</td><td><5</td><td><5</td><td>30</td></tr>
</table>
All parameters of ambient air are found within the NAAQS.

In view of the information furnished by the PP and the monitoring results showing that all the parameters are well within the stipulated norms, the stipulated condition is considered complied.
COMPLIED
</td>
</tr>
<tr>
<td>VIII</td>
<td>In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided.

Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system.</td>
<td>We have provided the closed system and handling and for conveyance pump is utilized for avoid the fugitive emissions. Company has also adopted the LDAR system and it is already given in LDAR condition.
Following measures will be adopted to prevent and control fugitive emissions:
1. Fugitive emissions is controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system.
2. Airborne dust at all transfers operations/ points will be controlled either by spraying water or providing enclosures.
3. Adequate ventilation will be provided.
4. Regular maintenance of valves, pumps, flanges, joints and other equipment will be</td>
</tr>
</table>

		done to prevent leakages and thus minimizing the fugitive emissions of VOCs. 5. Entire process will be carried out in the closed reactors with proper maintenance of pressure and temperature. 6. Periodic monitoring of work area will be carried out to check the fugitive emission. 7. Breather valves will be provided on solvent tanks. 8. Solvent tank vents will be connected to vent chillers. 9. To eliminate chances of leakages from glands of pumps, mechanical seal will be provided at all solvent pumps. 10. Stand by pumps will be provided on all scrubbers. Besides, scrubbers will be equipped with on-line pH meter with hooter system for better operational control. 11. Close feeding system will be provided for centrifuges. Centrifuge and filtrate tank vents will be connected to vent chillers. 12. Minimum number of flanges, joints and valves in pipelines. 13. Regular inspection of floating roof seals and proper preventive maintenance of roofs and seals for tanks. 14. Fugitive emission over reactors, formulation areas, centrifuges, chemical loading, transfer area will be collected through hoods and ducts by induced draft and controlled by scrubber/ dust collector. 15. Dedicated scrubber will be provided are used for fugitive emissions to control. 16. For dust emissions bag filter will be provided. 17. Enclosures to chemical storage area, collection of emission from loading of raw materials in particular solvents through hoods and ducts by induced draft, and control by scrubber / dust collector to be ensured.
	Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions.	We have provided for water sprinkling system at loading and unloading areas to control dust emissions and maintain records.
	Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored and records maintained.	Fugitive emissions in the work zone environment, product, raw materials storage area etc. are regularly monitored. We have appointed Third party- M/s. Kalpataru Pollution Control (Recognized NABL Laboratories no. NABL/T-7984 dated 10/10/2018 and valid upto 09/10/2020) and Consultant is recognized by Gujarat Pollution Control Board for Fugitive monitoring on regular basis.

<table>
<tr>
<td></td>
<td>The emissions shall conform to the limits stipulated by the GPCB.</td>
<td>
Month – March-Septmber, 2018
<table>
<tr><th>S. No.</th><th>Parameter</th><th colspan="3">Result mg/Nm³</th><th>NAAQS Norms mg/Nm³</th></tr>
<tr><th></th><th></th><th>Min</th><th>Max</th><th>Avg</th><th></th></tr>
<tr><td>1.</td><td>PM10 (µg/m³)</td><td>72.55</td><td>75.12</td><td>73.78</td><td>100</td></tr>
<tr><td>2.</td><td>VOC (ppm)</td><td>0.1</td><td>0.9</td><td>0.6</td><td>--</td></tr>
</table>
Month – October,2018-March, 2019
<table>
<tr><th>S. No.</th><th>Parameter</th><th colspan="3">Result mg/Nm³</th><th>NAAQS Norms mg /Nm³</th></tr>
<tr><th></th><th></th><th>Min</th><th>Max</th><th>Avg</th><th></th></tr>
<tr><td>1.</td><td>PM10 (µg/m³)</td><td>72.85</td><td>75.65</td><td>73.87</td><td>100</td></tr>
<tr><td>2.</td><td>VOC (ppm)</td><td>0.0</td><td>1.1</td><td>0.5</td><td>--</td></tr>
</table>
In view of the information furnished by the PP, the stipulated condition is considered complied subject to submission of copies of the test reports of the fugitive monitoring as per Form-32.

COMPLIED SUBJECT TO CONDITION
</td>
</tr>
<tr>
<td>IX</td>
<td>For further control of fugitive emissions, following steps shall be followed :

i. Closed handling system shall be provided for chemicals.

ii. Reflux condenser shall be provided over reactor.

iii. System of leak detection and repair of pump/pipeline based on preventive maintenance.</td>
<td>

i. Company is provided closed handling system for raw material.

ii Company is provided reflux condenser in solvent recovery.

iii. Company has installed LDAR system. All the pumps and other equipments where there is a likelihood of HC leakages is provided with Leak Detection and Repair (LDAR) system and LEL indicators and Hydrocarbon detectors.</td>
</tr>
</table>

		Company has Proper Leak Detection and Repair System to control fugitive emission for pesticide industry
	iv. The acids shall be taken from storage tanks to reactors through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operated on chilled water.	iv. The acid is taken from storage tanks to reactors through closed pipeline. Storage tanks is vented through trap receiver and condenser operated on chilled water.
	v. Cathodic protection shall be provided to the underground solvent storage tanks.	v. Cathodic protection is provided to the underground solvent storage tanks. **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**

X	A proper Leak Detection And Repair (LDAR) Program for pesticide industry shall be prepared and implemented as per CPCB guidelines. Focus shall be given for prevention of fugitive emissions for which preventive maintenance of pumps, valves, pipelines are required. Proper maintenance of mechanical seals of pumps and valves shall be given. A preventive maintenance schedule for each unit shall be prepared and adhered to.	Company has installed LDAR system. All the pumps and other equipments where there is a likelihood of HC leakages is provided with Leak Detection and Repair (LDAR) system and LEL indicators and Hydrocarbon detectors. Company has Proper Leak Detection and Repair System to control fugitive emission for pesticide industry and implemented as per CPCB guidelines which is given below: **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**

Leak Detection And Repair

Monitoring of Solvent Losses:

- In warding, storage and consumption of solvents in various products shall be measured through Level Transmitters and Load cells weighing systems resp. The quantity at each stage shall be reconciled periodically to arrive at Losses.
- Periodic monitoring of work area will be carried out to check the fugitive emission.
- VOC detectors will be installed at various places to detect leak.

Leak Detection and Repair (LDAR)

To prevent losses of these solvents in atmosphere, following infrastructure shall be used in addition to LDAR program

- Leak Free Pumps & Valve for transfer of solvents
- MSW Gaskets in solvent pipelines to prevent leakage from flanges
- Minimum number of flanges, joints and valves in pipelines.
- To eliminate chances of leakages from glands of pumps, double mechanical seal will be provided at all solvent pumps.
- All the rotating equipments like pumps will be installed with double Mechanical Seals to arrest any sort of emissions.
- Condenser post Reactor with cooling arrangement and chilling Arrangement.
- Flanges will be sealed so less losses will be there.
- Down the Temperature of Chilling tower to -15°C.
- Closed loop system.

Immediate Repair of devices in case of Leakages:

- A regular preventive maintenance schedule will be in place to replace or rectify all gaskets and joints to ensure no fugitive emissions shall take place.

- Plant shall also maintain adequate number of spares and consumables required to repair the leaking device
- Plant shall also have competent contractor team to handle Leakages and can repair the same immediately
- Standby equipments like Pumps, valves etc shall be kept basis the criticality and usage
- Plant shall also have access equipments like Boom lift to handle leakages at height immediately

Preventive Maintenance to prevent Leakages

In order to prevent leakage from Pump, Seals, Valves etc, preventive maintenance shall be carried out periodically as per plan. Regular maintenance of valves, pumps, flanges, joints and other equipment will be done to prevent leakages and thus minimizing the fugitive emissions of VOCs.

XI	Continuous monitoring system for VOCs and chlorine shall be installed at all important places/areas. Effective measures shall be taken immediately, when monitoring results indicate above the permissible limits.	Earlier we did not monitor the bromine and not installed the sensor of bromine. Now Company carries out the monitoring of HBr as bromine and also installed the Bromine sensor. Online Sensor system for VOCs, chlorine and bromine (Bromine is considered in form of HBr) are installed at all important places/areas to monitor the value of VOCs, chlorine and bromine and found monitoring results below the permissible limits. Br2 is mentioned as HBr and monitoring results of HBr is mentioned below. We have appointed Third party- M/s. Kalpataru Pollution Control (Recognized NABL Laboratories no. NABL/T-7984 dated 10/10/2018 and valid upto 09/10/2020) and Consultant is recognized by Gujarat Pollution Control Board for stack monitoring on regular basis. Results are given below: **Month – March,2018- September ,2018**

Sr. No.	Parameter	Result mg/Nm³			GPCB Norms mg/Nm³
		Min	Max	Avg	
1.	CL2 (µg/m³)	<5	<5	<5	09
2.	C6H6 (µg/m³)	ND	ND	ND	05

3.	HC(µg/m^3)	<1	<1	<1	--
4.	HBr (µg/m^3)	<0.1	<0.1	<0.1	30
5.	VOC (ppm)	0.6	0.8	0.7	--

Month – October,2018-February,2019

Sr. No.	Parameter	Result mg/Nm^3			GPCB Norms mg/Nm^3
		Min	Max	Avg	
1.	CL2 (µg/m^3)	<5	<5	<5	09
2.	C6H6 (µg/m^3)	ND	ND	ND	05
3.	HC(µg/m^3)	<1	<1	<1	--
4.	HBr (µg/m^3)	<0.1	<0.1	<0.1	30
5.	VOC (ppm)	0.7	1.0	0.8	--

ND: Not Detectable

As per above result mentioned in table, All online parameters of stack/vents are found within the Norms.

When monitoring results indicate above the permissible limits, we will immediately stop the operation and adopt the LDAR System then will start the operation.

All necessary steps shall be taken for monitoring of chlorine and Bromine in the proposed plant.

All necessary steps are taken for monitoring of chlorine and Bromine. Now we observed and it record maintain in Form No. 37.

In view of the information furnished by the PP, the stipulated condition is considered complied.

COMPLIED

<table>
<tr>
<td>XII</td>
<td>Proper hood along with suction facility and scrubbing arrangement shall be provided in the chlorine storage area.

Alarm for chlorine leakage if any in the liquid chlorine storage area shall be provided along with automatic start of the scrubbing system.</td>
<td>Company has already installed the suction facility and scrubbing arrangement provided in the chlorine storage area and photographs are attached here.
 

 
Alarm for chlorine leakage if any in the liquid chlorine storage area is provided along with automatic start of the scrubbing system.

In view of the information furnished by the PP, the stipulated condition is considered complied.
COMPLIED</td>
</tr>
<tr>
<td>XIII</td>
<td>The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards.

Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.</td>
<td>The gaseous emission from DG set is dispersed through adequate stack height (30 meter) as per CPCB standards.
We have provided the acoustic enclosure on DG sets to mitigate the noise pollution. We observed and maintain by third party monitoring and it record maintain.

Acoustic enclosures have been provided to mitigate noise pollution. The summary of the ambient noise monitoring reports (Annexure)during the period day/night, once in a month as monitored by M/s. Kalpataru Pollution Control (Recognized NABL Laboratories no. NABL/T-7984 dated 10/10/2018 and valid upto 09/10/2020) and Consultant is recognized by Gujarat Pollution Control Board is presented below

October, 2018
<table>
<tr><th rowspan="2">Sr. No.</th><th rowspan="2">Location</th><th colspan="2">Day Time</th><th colspan="2">Night Time</th></tr>
<tr><th>Min dB(A)</th><th>Max dB(A)</th><th>Min dB(A)</th><th>Max dB(A)</th></tr>
<tr><td>1</td><td>Main</td><td>63.1</td><td>64.9</td><td>63.9</td><td>66.7</td></tr>
</table>
</td>
</tr>
</table>

	Gate				
2	Plant-1	66.2	68.4	63.4	66.3
3	Storage Building	64.2	66.5	62.7	66.8
4	Boiler House	67.1	70.8	65.5	67.7
5	ETP	67.0	68.8	64.4	66.2
6	Plant-2	67.2	68.9	65.5	66.7
7	DG Room	69.4	71.5	68.2	69.6
8	Incinerator	69.1	71.9	67.3	69.1
Standard		**75 dB(A)**		**70 dB(A)**	

November, 2018

Sr. No.	**Location**	**Day Time**		**Night Time**	
		Min dB(A)	**Max dB(A)**	**Min dB(A)**	**Max dB(A)**
1	Main Gate	63.7	66.1	61.9	63.2
2	Plant-1	67.1	70.4	65.2	67.1
3	Storage Building	63.9	65.7	62.1	65.4
4	Boiler House	69.2	72.3	65.8	68.8
5	ETP	66.4	68.7	65.5	67.3
6	Plant-2	68.1	69.5	66.3	68.5
7	DG Room	69.5	72.7	67.5	69.1
8	Incinerator	66.9	68.4	64.4	67.3
Standard		**75 dB(A)**		**70 dB(A)**	

December, 2018

Sr.	**Location**	**Day Time**	**Night Time**

No.		Min dB(A)	Max dB(A)	Min dB(A)	Max dB(A)
1	Main Gate	62.5	64.5	62.4	65.6
2	Plant-1	65.4	68.1	63.3	66.4
3	Storage Building	64.3	66.5	62.6	66.5
4	Boiler House	67.3	70.1	65.3	67.5
5	ETP	66.5	68.8	64.2	66.6
6	Plant-2	63.7	66.5	66.4	68.6
7	DG Room	69.2	72.6	67.4	69.2
8	Incinerator	68.4	72.5	66.5	68.9
Standard		**75 dB(A)**		**70 dB(A)**	

January, 2019

Sr. No.	Location	Day Time		Night Time	
		Min dB(A)	Max dB(A)	Min dB(A)	Max dB(A)
1	Main Gate	63.6	65.2	62.5	64.9
2	Plant-1	65.8	68.0	64.1	67.5
3	Storage Building	63.2	65.9	62.4	64.9
4	Boiler House	69.4	72.4	67.5	69.3
5	ETP	66.0	68.0	64.6	66.7
6	Plant-2	67.5	68.8	65.8	67.0
7	DG Room	68.2	70.4	68.5	69.7
8	Incinerator	68.3	71.4	67.1	68.5
Standard		**75 dB(A)**		**70 dB(A)**	

February, 2019

Sr. No.	Location	Day Time		Night Time	
		Min dB(A)	Max dB(A)	Min dB(A)	Max dB(A)
1	Main Gate	62.5	64.5	62.4	65.6
2	Plant-1	65.4	68.1	63.3	66.4
3	Storage Building	64.3	66.5	62.6	66.5
4	Boiler House	67.3	70.1	65.3	67.5
5	ETP	66.5	68.8	64.2	66.6
6	Plant-2	63.7	66.5	66.4	68.6
7	DG Room	69.2	72.6	67.4	69.2
8	Incinerator	68.4	72.5	66.5	68.9
Standard		**75 dB(A)**		**70 dB(A)**	

March, 2019

Sr. No.	Location	Day Time		Night Time	
		Min dB(A)	Max dB(A)	Min dB(A)	Max dB(A)
1	Main Gate	63.1	65.6	62.8	63.4
2	Plant-1	66.2	69.2	65.7	67.2
3	Storage Building	65.3	67.6	63.8	66.1
4	Boiler House	67.2	69.5	65.0	67.3
5	ETP	65.1	67.3	66.1	68.5
6	Plant-2	66.2	68.7	64.8	66.1
7	DG Room	69.0	71.5	67.2	69.0
8	Incinerator	67.4	71.3	67.4	69.2
Standard		**75 dB(A)**		**70 dB(A)**	

<table>
<tr><td></td><td></td><td>Noise levels are found within standard at all location.
In view of the information furnished by the PP and the monitoring results showing that all the parameters are well within the stipulated norms, the stipulated condition is considered complied.
COMPLIED</td></tr>
<tr><td>XIV</td><td>The company shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and the GPCB.

The levels of PM_{10}, SO_2, NO_x, VOCs, Cl_2, HCl, HBr, CO and HC (Methane and Non-methane) in ambient air and emissions from the stacks shall be monitored and/ displayed at a convenient location near the main gate of the company and at important public places.</td><td>Earlier we did not monitor the bromine.
Company Now company has added the HBr in stack monitoring and ambient air quality and results are given below:
We have appointed Third party- M/s. Kalpataru Pollution Control (Recognized NABL Laboratories no. NABL/T-7984 dated 10/10/2018 and valid upto 09/10/2020) and Consultant is recognized by Gujarat Pollution Control Board for stack monitoring on regular basis.

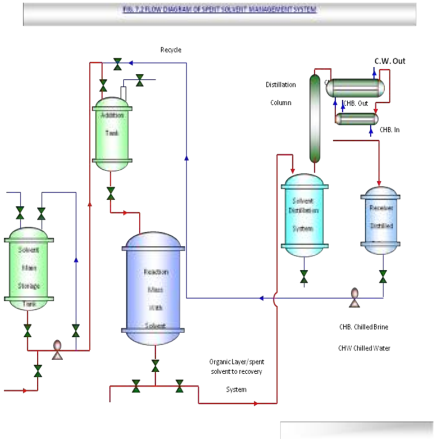
Month – March,2018 to September, 2018
<table>
<tr><th rowspan="2">S. No.</th><th rowspan="2">Parameter</th><th colspan="3">Result mg/Nm³</th><th rowspan="2">NAAQS Norms mg/Nm³</th></tr>
<tr><th>Min</th><th>Max</th><th>Avg</th></tr>
<tr><td>1.</td><td>PM10 (µg/m³)</td><td>72.55</td><td>75.12</td><td>73.78</td><td>100</td></tr>
<tr><td>2.</td><td>PM2.5 (µg/m³)</td><td>42.16</td><td>44.62</td><td>43.69</td><td>60</td></tr>
<tr><td>3.</td><td>SO2 (µg/m³)</td><td>13.17</td><td>16.24</td><td>15.17</td><td>80</td></tr>
<tr><td>4.</td><td>NOx (µg/m³)</td><td>16.14</td><td>17.55</td><td>16.75</td><td>80</td></tr>
<tr><td>5.</td><td>NH3 (µg/m³)</td><td>6.94</td><td>9.78</td><td>8.11</td><td>400</td></tr>
<tr><td>6.</td><td>CL2 (µg/m³)</td><td><5</td><td><5</td><td><5</td><td>100</td></tr>
</table></td></tr>
</table>

7.	H2S ($\mu g/m^3$)	BDL	BDL	BDL	500
8.	HF ($\mu g/m^3$)	<1	<1	<1	60
9.	HCL ($\mu g/m^3$)	4.08	5.24	4.59	200
10.	CS2 ($\mu g/m^3$)	BDL	BDL	BDL	2000
11.	CO ($\mu g/m^3$)	BDL	BDL	BDL	04
12.	Pb ($\mu g/m^3$)	BDL	BDL	BDL	1.0
13.	C6H6 ($\mu g/m^3$)	BDL	BDL	BDL	05
14.	BaP (ng/m^3)	BDL	BDL	BDL	01
15.	As (ng/m^3)	BDL	BDL	BDL	06
16.	Ni (ng/m^3)	BDL	BDL	BDL	20
17.	HC($\mu g/m^3$)	<1	<1	<1	160
18.	HBr ($\mu g/m^3$)	**<5**	**<5**	**<5**	30

Month – October,2018-March, 2019

S. No.	Parameter	Result mg/Nm³			NAAQS Norms mg/Nm³
		Min	Max	Avg	
1.	PM10 ($\mu g/m^3$)	72.85	75.65	73.87	100

2.	PM2.5 (µg/m³)	41.58	44.43		60	
3.	SO2 (µg/m³)	12.73	18.29	14.66	80	
4.	NOx (µg/m³)	13.98	22.34	17.35	80	
5.	NH3 (µg/m³)	8.67	9.67	9.11	400	
6.	CL2 (µg/m³)	<5	<5	<5	100	
7.	H2S (µg/m³)	BDL	BDL	BDL	500	
8.	HF (µg/m³)	<1	<1	<1	60	
9.	HCL (µg/m³)	4.08	5.24	4.59	200	
10.	CS2 (µg/m³)	BDL	BDL	BDL	2000	
11.	CO (µg/m³)	BDL	BDL	BDL	04	
12.	Pb (µg/m³)	BDL	BDL	BDL	1.0	
13.	C6H6 (µg/m³)	BDL	BDL	BDL	05	
14.	BaP (ng/m³)	BDL	BDL	BDL	01	
15.	As (ng/m³)	BDL	BDL	BDL	06	
16.	Ni (ng/m³)	BDL	BDL	BDL	20	

		<table><tr><td>17.</td><td>HC(µg/m³)</td><td><1</td><td><1</td><td><1</td><td>160</td></tr><tr><td>18.</td><td>HBr (µg/m³)</td><td><5</td><td><5</td><td><5</td><td>30</td></tr></table> Company has not submitted the stack monitoring report of HBr to Regional Office, MoEFCC, Bhopal period from July, 2017 to February, 2018. Hereby, company is submitting the stack monitoring report of HBr from March, 2018 to March, 2019 and also ready uploaded the soft copy on www.envfor.nic.in. All parameters are found within NAAQS limit. **In view of the information furnished by the PP, the stipulated condition is considered complied subject to submission of weblink of the company's website where the company has uploaded the status of compliance of the stipulated environmental clearance conditions, including results of monitored data.** **COMPLIED SUBJECT TO CONDITION**
XV	Chilled brine circulation system shall be provided to condensate solvent vapors and reduce solvent losses. It shall be ensured that solvent recovery should not be less than 95%.	We have provided KC-42 chilled brine circulation system for temp.-25 C and KC-6 chilled brine circulation for temp.-10 c. We are achieving the solvent recover above 95%.  **In view of the information furnished by the PP, the stipulated condition is considered**

<table>
<tr><td></td><td></td><td>complied.
COMPLIED</td></tr>
<tr><td>XVI</td><td>Solvent management shall be carried out as follows :

i. Reactor shall be connected to chilled brine condenser system

ii. Reactor and solvent handling pump shall have mechanical seals to prevent leakages.

iii. The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery

iv. Solvents shall be stored in a separate space specified with all safety measures.

v. Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.

vi. Entire plant shall be flame proof. The solvent storage tanks should be provided with breather valve to prevent losses.</td><td>Adopted the solvent management plan.

• Reactor is connected to chilled brine condenser system.

• Reactor and solvent handling pump have mechanical seals to prevent leakages.

• The condensers are provided with sufficient HTA and residence time so as to achieve more than 95% recovery.

• Solvents are stored in a separate space specified with all safety measures.

• Proper earthing are provided in all the electrical equipment wherever solvent handling is done.

• Entire plant is flame proof. The solvent storage tanks are provided with breather valve to prevent losses.

In view of the information furnished by the PP, the stipulated condition is considered complied.
COMPLIED</td></tr>
<tr><td>XVII</td><td>Total fresh water requirement from GIDC water supply shall not exceed to 2100 m^3/day after expansion and prior permission shall be obtained from the concerned department. No ground water shall be used.</td><td>Water supply agreement with GIDC for 2100 m^3/day.

Water Consumption (July,2017 to February, 2018)
<table>
<tr><th colspan="3">Water Consumption Data</th></tr>
<tr><th rowspan="2">Month</th><th>Min.</th><th>Max.</th></tr>
<tr><th colspan="2">KLD</th></tr>
<tr><td>July,2017</td><td>459</td><td>1264</td></tr>
<tr><td>August,2017</td><td>651</td><td>1120</td></tr>
<tr><td>September,2017</td><td>364</td><td>1085</td></tr>
</table></td></tr>
</table>

<table>
<tr>
<td></td>
<td></td>
<td>
<table>
<tr><td>November,2017</td><td>444</td><td>1169</td></tr>
<tr><td>December,2017</td><td>654</td><td>1345</td></tr>
<tr><td>January, 2018</td><td>798</td><td>1481</td></tr>
<tr><td>February, 2018</td><td>520</td><td>1302</td></tr>
</table>

Min. Water Consumption: 364 KL/Day

Max. Water Consumption: 1481KL/Day.

Water Consumption (October, 2018 to March, 2019)

Min. Water Consumption of last six month: 297 KL/Day

Max. Water Consumption of last six month: 2064 KL/Day.
<table>
<tr><th colspan="3">Water Consumption Data</th></tr>
<tr><th>Month</th><th>Min.</th><th>Max.</th></tr>
<tr><th></th><th colspan="2">KLD</th></tr>
<tr><td>October, 2018</td><td>1261</td><td>2064</td></tr>
<tr><td>November,2018</td><td>385</td><td>1367</td></tr>
<tr><td>December, 2018</td><td>297</td><td>1299</td></tr>
<tr><td>January,2019</td><td>444</td><td>1568</td></tr>
<tr><td>February, 2019</td><td>979</td><td>1685</td></tr>
<tr><td>March, 2019</td><td>1250</td><td>1681</td></tr>
</table>
In view of the information furnished by the PP, the stipulated condition is considered complied.
COMPLIED
</td>
</tr>
<tr>
<td>XVII</td>
<td>As proposed, Industrial wastewater generation shall not exceed 921 m^3/day. Effluent shall be segregated into High COD, High TDS and low COD/TDS effluent streams. High COD effluent /mother liquor shall be incinerated. High TDS effluent shall be passed through stripper followed by MEE. Condensate shall reused/recycled</td>
<td>As proposed, Industrial wastewater generation shall not exceed 921 m^3/day.

Effluent are being segregated into High COD, High TDS and low COD/TDS effluent streams. High COD effluent /mother liquor (50 m^3/Day) is being incinerated in on site incinerator. High TDS effluent (231 m^3/Day) is being passed through stripper followed by MEE and discharged into deep sea through GIDC Pipeline. Condensate is being reused/recycled within factory premises. Low COD/TDS effluent (640 m^3/Day) is being treated in ETP comprising primary, secondary and tertiary treatment facility.</td>
</tr>
</table>

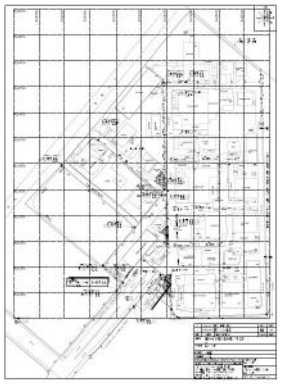
	within factory premises. Low COD/TDS effluent shall be treated in ETP comprising primary, secondary and tertiary treatment facility. Cyanide effluent stream shall be treated separately.	**Cyanide effluent stream is being treated separately. Accordingly,** Cyanide effluent stream is segregated and treated with sodium hypo chlorite treatment and sent to MEE. We ensure cyanide contains is nil before taking to MEE.
	Treated effluent from ETP shall be discharged into deep sea through a GIDC sewer after conforming to the standards prescribed for the effluent discharge and obtaining permission from the GPCB.	Complied. After EC of 2008, company obtained the second EC for expansion on 30/08/2012. In Second EC, Industrial wastewater generation shall not exceed 921 m^3/day. Now company follows the new condition for wastewater treatment.
	Domestic sewage shall be treated in aeration tank of the ETP. No process effluent shall be discharged in and around the project site. Water quality of treated effluent shall be monitored regularly and monitoring report shall be submitted to the GPCB. Water quality of treated effluent shall be monitored regularly.	**Effluent Generation Data of last 6 month** **Month** / **Min.** / **Max.** (KLD) October, 2018: 471 / 847 November, 2018: 376 / 502 December, 2018: 382 / 600 January, 2019: 396 / 777 February, 2019: 374 / 645 March, 2019: 415 / 809 1) Low COD effluent stream of last 6 month Min. generation of Low COD effluent stream of last six month: 178 KL/Day Max. generation of Low COD effluent stream of last six month: 629 KL/Day **Low COD Effluent Generation Data** **Month** / **Min.** / **Max.** (KLD) October, 286 / 629

2018		
November,2018	178	288
December, 2018	225	380
January,2019	219	582
February, 2019	254	493
March, 2019	268	587

2) High COD/TDS effluent stream of last 6 month
Min. generation of High COD/TDS effluent stream of last six month: 120 KL/Day
High COD/TDS effluent stream of last six month: 222 KL/Day

High COD/TDS Effluent Generation Data		
Month	**Min.**	**Max.**
	KLD	
October, 2018	185	218
November,2018	198	214
December, 2018	157	220
January,2019	177	195
February, 2019	120	152
March, 2019	147	222

Segregated the High TDS /COD 225 KL/day and low TDS/COD streams 646 Kl/day. High TDS /COD 225 KL/day treats into MEE. Low COD streams treats into ETP. High COD streams incinerated into on site incinerator. MEE condensate is recycling in scrubbing media or ETP. MEE salt is generation sent to TSDF site BEIL and SEPPL.
Low COD streams goes to Effluent treatment Plant. Where primary, secondary and tertiary facility provided.

		Cyanide effluent stream is segregated and treated with sodium hypo chlorite treatment and sent to MEE. We ensure cyanide contains is nil before taking to MEE. High COD streams 50 KL/day after segregation is incinerated in on site incinerator **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**
XIX	Treated effluent shall be passed through guard pond. Online continuous pH meter, TOC analyzer and flow meter shall be installed to monitor the treated water quality.	Treated effluent is passed through guard pond. Company is provided online continuous pH meter, TOC analyzer and flow meter to monitor the treated water quality. **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**
XX	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	During transfer of materials, spillages are being avoided. Garland drains were constructed to avoid mixing of accidental spillages with domestic waste and storm drains. Plan for storm water drain is attached as below:  **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**
XXI	Incinerator comprising primary and secondary chamber shall be designed as per CPCB guidelines. SO_2, NOx, HCl and CO	Incinerator is provided as per CPCB guidelines. Incinerator emission monitors daily and once in month monitoring by Third party.

<table>
<tr>
<td></td>
<td>emissions shall be monitored in the stack regularly.</td>
<td>We have appointed Third party- M/s. Kalpataru Pollution Control (Recognized NABL Laboratories no. NABL/T-7984 dated 10/10/2018 and valid upto 09/10/2020) and Consultant is recognized by Gujarat Pollution Control Board for stack monitoring on regular basis.

Month of March,2018 to September, 2018 (Incinerator)
<table>
<tr><th rowspan="2">Parameter</th><th colspan="3">Result</th><th rowspan="2">GPCB Norms</th></tr>
<tr><th>Min</th><th>Max</th><th>Avg</th></tr>
<tr><td>PM</td><td>38.74</td><td>43.52</td><td>41.39</td><td>150 mg/Nm^3</td></tr>
<tr><td>SO2</td><td>13.5</td><td>14.1</td><td>13.5</td><td>40 mg/Nm^3</td></tr>
<tr><td>NOx</td><td>9.2</td><td>10.2</td><td>9.45</td><td>25 mg/Nm^3</td></tr>
<tr><td>HCL</td><td>2.57</td><td>3.17</td><td>3.00</td><td>20 mg/Nm^3</td></tr>
<tr><td>HF</td><td>1.04</td><td>1.47</td><td>1.25</td><td>4 mg/Nm^3</td></tr>
<tr><td>CO</td><td>1.55</td><td>2.13</td><td>1.95</td><td>150 mg/Nm^3</td></tr>
<tr><td>TOC</td><td>ND</td><td>ND</td><td>ND</td><td>20 mg/Nm^3</td></tr>
<tr><td>Cd</td><td>0.018</td><td>0.02</td><td>0.019</td><td>0.05 mg/Nm^3</td></tr>
<tr><td>Hg</td><td>ND</td><td>ND</td><td>ND</td><td>0.05 mg/Nm^3</td></tr>
<tr><td>Sb+As+Pb+Cr+Cu+ Mn+ Ni</td><td>0.161</td><td>0.165</td><td>0.163</td><td>0.5 mg/Nm^3</td></tr>
</table>
Month of October,2018-March, 2019 (Incinerator)
<table>
<tr><th rowspan="2">Parameter</th><th colspan="3">Result</th><th rowspan="2">GPCB Norms</th></tr>
<tr><th>Min</th><th>Max</th><th>Avg</th></tr>
<tr><td>PM</td><td>35.46</td><td>43.12</td><td>39.73</td><td>150 mg/Nm^3</td></tr>
<tr><td>SO2</td><td>11.2</td><td>13.1</td><td>12.8</td><td>40 mg/Nm^3</td></tr>
<tr><td>NOx</td><td>8.89</td><td>11.8</td><td>9.93</td><td>25 mg/Nm^3</td></tr>
<tr><td>HCL</td><td>3.68</td><td>4.18</td><td>3.77</td><td>20 mg/Nm^3</td></tr>
<tr><td>HF</td><td>1.37</td><td>1.62</td><td>1.50</td><td>4 mg/Nm^3</td></tr>
<tr><td>CO</td><td>1.22</td><td>1.48</td><td>1.29</td><td>150 mg/Nm^3</td></tr>
<tr><td>TOC</td><td>ND</td><td>ND</td><td>ND</td><td>20 mg/Nm^3</td></tr>
<tr><td>Cd</td><td>0.012</td><td>0.018</td><td>0.024</td><td>0.05 mg/Nm^3</td></tr>
<tr><td>Hg</td><td>ND</td><td>ND</td><td>ND</td><td>0.05 mg/Nm^3</td></tr>
<tr><td>Sb+As+Pb+Cr+Cu+ Mn+ Ni</td><td>0.151</td><td>0.164</td><td>0.159</td><td>0.5 mg/Nm^3</td></tr>
</table>
In view of the information furnished by the PP, the stipulated condition is considered complied.
COMPLIED</td>
</tr>
<tr>
<td>XXI</td>
<td>Hazardous chemicals shall be stored in</td>
<td>Hazardous chemicals are stored in tanks in tank farms, drums, carboys etc. Flame arresters</td>
</tr>
</table>

<table>
<tr><td>I</td><td>tanks in tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm. Solvent transfer shall be by pumps.</td><td>are provided on tank farm. Solvent transfer through pump only.
In view of the information furnished by the PP, the stipulated condition is considered complied.
COMPLIED</td></tr>
<tr><td>XXII</td><td>The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans-Boundary Movement) Rules, 2008 and amended as on date for management of Hazardous wastes and prior permission from GPCB shall be obtained for disposal of solid / hazardous waste in the TSDF.

Measures shall be taken for firefighting facilities in case of emergency.

Membership of TSDF for hazardous waste disposal shall be obtained.</td><td>The company has obtained Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans-Boundary Movement) Rules, 2008 and amended as on date for management of Hazardous wastes and prior permission from GPCB. We have obtained the authorization for disposal of solid / hazardous waste in the TSDF.
Company has obtained prior permission from GPCB for disposal of solid/hazardous waste in the form of valid consent to operate vide letter no. AWH -71059 dated 02/03/2015 which is valid upto 14/07/2020.

Measures are taken for firefighting facilities in case of emergency.
Company management will take into consideration fire prevention measures at the project planning and during plant commissioning stage to avoid any outbreak of fire. But looking to the hazardous nature of process and the chemicals that are handled and processed, the chances of outbreak of fire cannot be totally ignored. Hence to tackle such a situation a good well laid fire protection system will be provided in the factory.

PROPOSED FACILITIES TO BE MAINTAINED FOR FIRE FIGHTING:
<table>
<tr><th>Sr. No.</th><th>Type</th><th>Capacity</th><th>Total Quantity</th></tr>
<tr><td>1</td><td>Dry Chemical Powder</td><td>9 Kgs</td><td>100 Nos.</td></tr>
<tr><td></td><td></td><td>50 Kgs.</td><td>50 Nos.</td></tr>
<tr><td>2</td><td>Carbon dioxide</td><td>9 kgs</td><td>150 Nos.</td></tr>
<tr><td>3</td><td>Form Type</td><td>Chemical Foam 50 liters</td><td>150 Nos.</td></tr>
<tr><td></td><td></td><td>Mechanical Foam 50 liters</td><td>150 Nos.</td></tr>
</table>
</td></tr>
</table>

		Other fire fighting facilities proposed to be installed at site: ▪ Fire load calculation will be carried out and Fire Extinguishers at different locations will be provided (as mentioned in above table) as per the TAC guidelines. ▪ Working staff will be given training to operate extinguishers. ▪ Fire Hydrant Network will be installed as per the calculated requirement for fire fighting. ▪ A main fire pump with a capacity of 50 m^3/Hr @ 10 Bar/cm^2 will be installed. ▪ A stand-by diesel pump with equal capacity (50 m^3/Hr @ 10 Bar/cm^2) will be installed. This pump will be used for fire fighting in case of power failure. ▪ A fire water reservoir with holding capacity of 300 m^3 of water shall be provided. ▪ First Aid Training will be imparted to employees by designated first aid trainers. **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**
XXIV	As proposed, ETP sludge, incineration ash and evaporation residue shall be sent to TSDF site. High calorific value waste such as spent organic shall be sent to cement factory/incinerated.	ETP sludge, incineration ash and evaporation residue is sent to TSDF site. High calorific value waste such as spent organic is sent own site incinerated. **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**
XXV	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 11989 *as* amended in October, 1994 and January, 2000. All Transportation of Hazardous Chemicals shall be *as per* the Motor Vehicle Act (MVA), 1989.	The Company is strictly complying with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 11989 *as* amended in October, 1994 and January, 2000. All Transportation of Hazardous Chemicals is *as per* the Motor Vehicle Act (MVA), 1989. **In view of the information furnished by the PP, the stipulated condition is considered complied subject to submission of elaborated compliance on the contents of the stipulated condition with specific details.** **COMPLIED SUBJECT TO CONDTION**
XXVI	Bromine shall be transferred in ISO tanks through GPS fitted truck.	Bromine is transferred in ISO tank through GPS Fitted trucks only. GPS system is provided by supplier delegated tanker. Bromine detectors are also installed on all bromine ISO tank.

		In view of the information furnished by the PP, the stipulated condition is considered complied. **COMPLIED**
XX VII	The company shall undertake following waste minimization measures :- a. Metering and control of quantities of active ingredients to minimize waste. b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. c. Use of automated filling to minimize spillage. d. Use of Close Feed system into batch reactors. e. Venting equipment through vapour recovery system. f. Use of high pressure hoses for equipment clearing to reduce wastewater generation.	The company undertake following waste minimization measures :- a. Metering and control of quantities of active ingredients to minimize waste. b. Reuse of by-product (HCl) from the process as raw materials in TBA process. SO2 gas scrubbed into Soda Ash and produced Sodium bi Sulfite as end product. c. Use of automated filling to minimize spillage. d. Use of Close Feed system into batch reactors. (Thionyl Chloride, Sodium Cyanide) e. Venting equipment through vapor recovery system. f. Use of high pressure hoses for equipment clearing to reduce wastewater generation. Company got the cleaner production award from Gujarat Pollution Control board to minimize the waste. Following area found during CP Assessment for CMAC. • Reduction in consumption of raw material acrylonitrile for manufacturing of CMAC and set optimize raw material quantity. • Replace the co-catalyst DEA-HCL with newer one for increasing the yield of TBN. • Replace the Tri Ethyl Amine (TEA) with other for enhancing the yield of 4-CB production. • Replace the catalyst Boron tri fluoride etherate (BF_3) with other for enhancing the yield of 4-CB production. • Give more time for hydrolysis process to increasing the yield of Tetra Chloro Butyric Acid. • Increase the concentration of H_2SO_4 to increasing the yield of Cypermethric Acid. • Change the route synthesis options for economical & environment friendly

<table>
<tr>
<td></td>
<td></td>
<td>manufacturing process of CMAC directly from the Thionyl Chloride & solid state of Na-CMA.
 
In view of the information furnished by the PP, the stipulated condition is considered complied.
COMPLIED</td>
</tr>
<tr>
<td>XX VIII</td>
<td>The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.</td>
<td>Company is provided fire hydrant system as per norms. Hydrant system line diagram approved by DISH.

Company management will take into consideration fire prevention measures at the project planning and during plant commissioning stage to avoid any outbreak of fire. But looking to the hazardous nature of process and the chemicals that are handled and processed, the chances of outbreak of fire cannot be totally ignored. Hence to tackle such a situation a good well laid fire protection system will be provided in the factory.

PROPOSED FACILITIES TO BE MAINTAINED FOR FIRE FIGHTING:
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<tr><td>50 Kgs.</td><td>50 Nos.</td></tr>
<tr><td>2</td><td>Carbon dioxide</td><td>9 kgs</td><td>150 Nos.</td></tr>
<tr><td rowspan="2">3</td><td rowspan="2">Form Type</td><td>Chemical Foam 50 liters</td><td>150 Nos.</td></tr>
<tr><td>Mechan</td><td>150</td></tr>
</table>
</td>
</tr>
</table>

		<table><tr><td></td><td></td><td>ical Foam 50 liters</td><td>Nos.</td></tr></table> **Other fire fighting facilities proposed to be installed at site:** ▪ Fire load calculation will be carried out and Fire Extinguishers at different locations will be provided (as mentioned in above table) as per the TAC guidelines. ▪ Working staff will be given training to operate extinguishers. ▪ Fire Hydrant Network will be installed as per the calculated requirement for fire fighting. ▪ A main fire pump with a capacity of 50 m^3/Hr @ 10 Bar/cm^2 will be installed. ▪ A stand-by diesel pump with equal capacity (50 m^3/Hr @ 10 Bar/cm^2) will be installed. This pump will be used for fire fighting in case of power failure. ▪ A fire water reservoir with holding capacity of 300 m^3 of water shall be provided. ▪ First Aid Training will be imparted to employees by designated first aid trainers. **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**
XXIX	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Medical checkup of each employee and workers **is being carried out on a six monthly basis by M/s. Sai Clinic & Occupational Health Centre, Bharuch** Total Nos. of employees & worker= 236 Nos. Periodic Medical Checkup of employees and workers = 236 Nos. Following Tests were carried out: 1) Physical test 2) General Examination like Temp., Pulse, Pressure, Pallor/Icterous/Cyanosis/Clubbing/Edema/others 3) Systemic Examination like CVS, R/S, A/S, CNS, ENT, Skin, Musculoskeletal, Genitourinary 4) Vision Testing 5) ECG 6) LFT

		7) Audiometry 8) Haemogram Profile 9) Blood Group 10) ESR 11) Biochemistry 12) Urine Examination 13) Spirometry (FVC) **No occupational health related abnormality of any employees and workers is found during the medical check-up. All employees and workers were found fit.** Occupational health surveillance of the workers is attached as below:  

		 **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**
XXX	Green belt shall be developed at least in 33 % of the plant area in and around the plant premises to mitigate the effects of fugitive emissions all around the plant as per the CPCB guidelines in consultation with DFO. Thick greenbelt with suitable plant species shall be developed around the proposed pesticide unit to mitigate the odour problem. Selection of plant species shall be as per the CPCB guidelines.	Company has planted the trees around the boundary and photographs are attached as **below.**

		  Total 52432.22 m^2 land area is available at site; out of this 17000 m^2 (i.e. 33 % of total area) developed as greenbelt. **In view of the information furnished by the PP, the stipulated condition is considered complied subject to submission of greenbelt layout diagram.** **COMPLIED SUBJECT TO CONDITION**
XX XI	The company shall make the arrangement for protection of possible fire and explosion hazards during manufacturing process in material handling.	Taken adequate arrangement for protection of possible fire and explosion hazards. We have analysis the risk assessment and taken precautions. **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**
XX XII	Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets,	To be arrange company colony. We have allotted the 4000 sq mtrs. Land form GIDC at Alatli Housing for the company colony. **In view of the submission by the PP, the stipulated condition is considered as deemed complied.**

	mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.	**DEEMED COMPLIED**
B.	**General Conditions :**	
I	The project authorities shall strictly adhere to the stipulations made by the Gujarat Pollution Control Board.	We give assurance that we strictly follow all the conditions made by the Gujarat State Pollution Control Board. Company has valid consent to operate vide letter no. AWH -71059 dated 02/03/2015 and valid upto 14/07/2020. Conditions of CCA are fully complied and Compliance Report is attached as Annexure-1. **In view of the information furnished by the PP, i.e., detailed compliance to the stipulations of CCA submitted, the stipulated condition is considered complied.** **COMPLIED**
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	No expansion or modification takes place in plant without prior approval of the Ministry of Environment and Forests. **In view of the submission by the PP, the stipulated condition is considered as agreed to comply.** **AGREED TO COMPLY**
iii.	The locations of ambient air quality monitoring stations shall be decided in consultation with the Gujarat Pollution Control Board (GPCB) and it shall be	Decided the three locations for ambient air quality monitoring. We carry out regular monitoring by third party. We have appointed Third party- M/s. Kalpataru Pollution Control (Recognized NABL

	ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Laboratories no. NABL/T-7984 dated 10/10/2018 and valid upto 09/10/2020) and Consultant is recognized by Gujarat Pollution Control Board for ambient air monitoring on regular basis. **Month – March,2018 to September, 2018**

S. No.	Parameter	Result mg/Nm³			NAAQS Norms mg/Nm³
		Min	Max	Avg	
1.	PM10 (µg/m³)	72.55	75.12	73.78	100
2.	PM2.5 (µg/m³)	42.16	44.62	43.69	60
3.	SO2 (µg/m³)	13.17	16.24	15.17	80
4.	NOx (µg/m³)	16.14	17.55	16.75	80
5.	NH3 (µg/m³)	6.94	9.78	8.11	400
6.	CL2 (µg/m³)	<5	<5	<5	100
7.	H2S (µg/m³)	BDL	BDL	BDL	500
8.	HF (µg/m³)	<1	<1	<1	60
9.	HCL (µg/m³)	4.08	5.24	4.59	200
10.	CS2 (µg/m³)	BDL	BDL	BDL	2000
11.	CO (µg/m³)	BDL	BDL	BDL	04
12.	Pb (µg/m³)	BDL	BDL	BDL	1.0

13.	C6H6 (µg/m³)	BDL	BDL	BDL	05
14.	BaP (ng/m³)	BDL	BDL	BDL	01
15.	As (ng/m³)	BDL	BDL	BDL	06
16.	Ni (ng/m³)	BDL	BDL	BDL	20
17.	HC(µg/m³)	<1	<1	<1	160
18.	HBr (µg/m³)	**<5**	**<5**	**<5**	30

Month – October,2018-March, 2019

S. No.	Parameter	Result mg/Nm³			NAAQS Norms mg/Nm³
		Min	Max	Avg	
1.	PM10 (µg/m³)	72.85	75.65	73.87	100
2.	PM2.5 (µg/m³)	41.58	44.43		60
3.	SO2 (µg/m³)	12.73	18.29	14.66	80
4.	NOx (µg/m³)	13.98	22.34	17.35	80
5.	NH3 (µg/m³)	8.67	9.67	9.11	400
6.	CL2 (µg/m³)	<5	<5	<5	100
7.	H2S	BDL	BDL	BDL	500

		(µg/m³)				
		8.	HF (µg/m³)	<1	<1	<1	60
		9.	HCL (µg/m³)	4.08	5.24	4.59	200
		10.	CS2 (µg/m³)	BDL	BDL	BDL	2000
		11.	CO (µg/m³)	BDL	BDL	BDL	04
		12.	Pb (µg/m³)	BDL	BDL	BDL	1.0
		13.	C6H6 (µg/m³)	BDL	BDL	BDL	05
		14.	BaP (ng/m³)	BDL	BDL	BDL	01
		15.	As (ng/m³)	BDL	BDL	BDL	06
		16.	Ni (ng/m³)	BDL	BDL	BDL	20
		17.	HC(µg/m³)	<1	<1	<1	160
		18.	HBr (µg/m³)	**<5**	**<5**	**<5**	30
		In view of the information furnished by the PP, the stipulated condition is considered complied. **COMPLIED**					
iv	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed	Company carries out regular noise monitoring in company as well as in surrounding area and it is well within the standards prescribed by the concerned authorities. **Acoustic enclosures have been provided to mitigate noise pollution. The summary of the ambient noise monitoring reports (Annexure) during the period day/night, once in a month as monitored by** M/s. Kalpataru Pollution Control (Recognized NABL Laboratories no. NABL/T-7984 dated 10/10/2018 and valid upto 09/10/2020) and Consultant is				

	under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	recognized by Gujarat Pollution Control Board **is presented below** **Monitoring location, min., max. , standard**

October, 2018

Sr. No.	Location	Day Time		Night Time	
		Min dB(A)	Max dB(A)	Min dB(A)	Max dB(A)
1	Main Gate	63.1	64.9	63.9	66.7
2	Plant-1	66.2	68.4	63.4	66.3
3	Storage Building	64.2	66.5	62.7	66.8
4	Boiler House	67.1	70.8	65.5	67.7
5	ETP	67.0	68.8	64.4	66.2
6	Plant-2	67.2	68.9	65.5	66.7
7	DG Room	69.4	71.5	68.2	69.6
8	Incinerator	69.1	71.9	67.3	69.1
Standard		**75 dB(A)**		**70 dB(A)**	

November, 2018

Sr. No.	Location	Day Time		Night Time	
		Min dB(A)	Max dB(A)	Min dB(A)	Max dB(A)
1	Main Gate	63.7	66.1	61.9	63.2
2	Plant-1	67.1	70.4	65.2	67.1
3	Storage Building	63.9	65.7	62.1	65.4
4	Boiler House	69.2	72.3	65.8	68.8

5	ETP	66.4	68.7	65.5	67.3
6	Plant-2	68.1	69.5	66.3	68.5
7	DG Room	69.5	72.7	67.5	69.1
8	Incinerator	66.9	68.4	64.4	67.3
Standard		**75 dB(A)**		**70 dB(A)**	

December, 2018

Sr. No.	**Location**	**Day Time**		**Night Time**	
		Min dB(A)	**Max dB(A)**	**Min dB(A)**	**Max dB(A)**
1	Main Gate	62.5	64.5	62.4	65.6
2	Plant-1	65.4	68.1	63.3	66.4
3	Storage Building	64.3	66.5	62.6	66.5
4	Boiler House	67.3	70.1	65.3	67.5
5	ETP	66.5	68.8	64.2	66.6
6	Plant-2	63.7	66.5	66.4	68.6
7	DG Room	69.2	72.6	67.4	69.2
8	Incinerator	68.4	72.5	66.5	68.9
Standard		**75 dB(A)**		**70 dB(A)**	

January, 2019

Sr. No.	**Location**	**Day Time**		**Night Time**	
		Min dB(A)	**Max dB(A)**	**Min dB(A)**	**Max dB(A)**
1	Main Gate	63.6	65.2	62.5	64.9
2	Plant-1	65.8	68.0	64.1	67.5
3	Storage	63.2	65.9	62.4	64.9

	Building				
4	Boiler House	69.4	72.4	67.5	69.3
5	ETP	66.0	68.0	64.6	66.7
6	Plant-2	67.5	68.8	65.8	67.0
7	DG Room	68.2	70.4	68.5	69.7
8	Incinerator	68.3	71.4	67.1	68.5
Standard		**75 dB(A)**		**70 dB(A)**	

February, 2019

Sr. No.	**Location**	**Day Time**		**Night Time**	
		Min dB(A)	**Max dB(A)**	**Min dB(A)**	**Max dB(A)**
1	Main Gate	62.5	64.5	62.4	65.6
2	Plant-1	65.4	68.1	63.3	66.4
3	Storage Building	64.3	66.5	62.6	66.5
4	Boiler House	67.3	70.1	65.3	67.5
5	ETP	66.5	68.8	64.2	66.6
6	Plant-2	63.7	66.5	66.4	68.6
7	DG Room	69.2	72.6	67.4	69.2
8	Incinerator	68.4	72.5	66.5	68.9
Standard		**75 dB(A)**		**70 dB(A)**	

March, 2019

Sr. No.	**Location**	**Day Time**		**Night Time**	
		Min dB(A)	**Max dB(A)**	**Min dB(A)**	**Max dB(A)**
1	Main Gate	63.1	65.6	62.8	63.4
2	Plant-1	66.2	69.2	65.7	67.2

<table>
<tr><td></td><td></td><td>
<table>
<tr><td>3</td><td>Storage Building</td><td>65.3</td><td>67.6</td><td>63.8</td><td>66.1</td></tr>
<tr><td>4</td><td>Boiler House</td><td>67.2</td><td>69.5</td><td>65.0</td><td>67.3</td></tr>
<tr><td>5</td><td>ETP</td><td>65.1</td><td>67.3</td><td>66.1</td><td>68.5</td></tr>
<tr><td>6</td><td>Plant-2</td><td>66.2</td><td>68.7</td><td>64.8</td><td>66.1</td></tr>
<tr><td>7</td><td>DG Room</td><td>69.0</td><td>71.5</td><td>67.2</td><td>69.0</td></tr>
<tr><td>8</td><td>Incinerator</td><td>67.4</td><td>71.3</td><td>67.4</td><td>69.2</td></tr>
<tr><td colspan="2">Standard</td><td colspan="2">75 dB(A)</td><td colspan="2">70 dB(A)</td></tr>
</table>
Noise levels are found within standard at all location.
In view of the information furnished by the PP and the noise monitoring results showing that all the noise levels are well within the stipulated norms, the stipulated condition is considered complied.
COMPLIED
</td></tr>
<tr><td>V</td><td>The Company shall harvest rainwater from the roof-tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.</td><td>GIDC and State Pollution Control Board does not allow to recharge the harvest rainwater in chemical industries. So we need to amend this condition.
In view of the submission by the PP, the stipulated condition is considered complied subject to needful amendment in EC by the EC issuing authority
COMPLIED SUBJECT TO NEEDFUL AMENDMENT IN EC BY THE EC ISSUING AUTHORITY</td></tr>
<tr><td>vi</td><td>During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic wastewater and storm water drains.</td><td>During transfer of materials, spillages shall be avoided and garland drains constructed to avoid mixing of accidental spillages with domestic wastewater and storm water drains.
In view of the information furnished by the PP, the stipulated condition is considered complied.
COMPLIED</td></tr>
<tr><td>vii</td><td>Usage of Personnel Protection Equipments by all employees/ workers shall be ensured.</td><td>Now company is providing the PPE to each employees as well as worker on regular basis.
List of PPE:
▪ Industrial Safety Helmet -236 Nos.;
▪ Face shield - 120 Nos.
▪ Welders equipment for eye and face protection - 50 Nos;
▪ Ear muffs-236 Nos.;
▪ Boiler suit – 10 Nos.
▪ Safety belt/line man's safety belt - 50 Nos;
▪ Leather hand gloves -200 Nos.;</td></tr>
</table>

		▪ Acid/Alkali proof rubberized hand gloves -100 Nos.; ▪ Canvas cum leather hand gloves with leather palm -100 Nos.; ▪ Electrically tested electrical resistance hand gloves -80 Nos.; and ▪ Industrial safety shoes with steel toe – 60 Nos. Goggles -236 Nos  **In view of the information furnished by the PP and as per the site observation, the stipulated condition is considered complied.** **COMPLIED**
viii	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Company has given training to all employees on safety and health aspects of chemicals handling to 236 Nos. of employees and worker. Company is giving the training to each and every employees and worker on monthly basis. Company adopted the pre-employment and routine periodical medical examinations for all employees by external MBBS Doctor. Medical checkup of each employee and workers **is being carried out on a six monthly basis by M/s. Sai Clinic & Occupational Health Centre, Bharuch** Total Nos. of employees & worker= 236 Nos. Periodic Medical Checkup of employees and workers = 236 Nos. Following Tests were carried out: 1) Physical test 2) General Examination like Temp., Pulse, Pressure, Pallor/Icterous/Cyanosis/Clubbing/Edema/others 3) Systemic Examination like CVS, R/S, A/S, CNS, ENT, Skin, Musculoskeletal, Genitourinary 4) Vision Testing 5) ECG 6) LFT 7) Audiometry

		8) Haemogram Profile 9) Blood Group 10) ESR 11) Biochemistry 12) Urine Examination 13) Spirometry (FVC) **No occupational health related abnormality of any employees and workers is found during the medical check-up. All employees and workers were found fit.**  **In view of the information furnished by the PP, the stipulated condition is considered complied subject to submission of elaborated compliance on the contents of the stipulated condition with specific details w.r.t. training imparted to workers.** **COMPLIED SUBJECT TO CONDTION**

ix	The company shall also comply with all the environmental protection measures and safeguards proposed in the project report submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	All recommendation given in EIA & Risk Analysis Report is complied. Please refer implemented schedule of all the environmental protection measures as given below. We have already implemented the all the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures. **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**

ENVIRONMENTAL COMPONENTS	**POTENTIAL IMPACTS**	**SOURCES OF IMPACT**	**MITIGATIVE MEASURE**	**IMPLEMENTED SCHEUDLE**
Water Quality	Deterioration of water quality	Construction activity & abstraction of water for construction requirement and sanitation in housing for workers. Discharge of process effluents, sewage and utility wastewater.	Proper management of surface water runoff shall be made. Wastewater generation shall not exceed 921 m^3/day. Effluent shall be segregated into High COD, High TDS and low COD/TDS effluent streams. High COD effluent /mother liquor shall be incinerated. High TDS effluent shall be passed through stripper followed by MEE. Condensate shall reused/recycled within factory premises. Low COD/TDS effluent shall be treated in ETP comprising primary, secondary and tertiary treatment facility.	Company has installed the 1008 KL/Day ETP to treat the Low COD Effluent. Company also installed the inhouse MEE as well as incinerator for High TDS and High COD respectively.
Air Quality	Emission from flue gas & process vent	Fugitive emissions	Control equipment for emissions Adequate APCM like – ESP, Multicyclone Separator, Adequate Height, Alkali	Company has installed the ESP, Multicyclone Separator,

				Scrubber will be provided to control pollution.	Adequate Height, Two stage Scrubber system to control the pollution.
	Hazardous Waste	Hazardous Waste generate from process, ETP, RM and Products storage yard, Machineries and Utilities, etc.	Project activities	ETP Sludge, Incineration Ash, MEE Salt will be Collected, Stored, Transported and Disposal at nearest TSDF site. Used Oil will be Collected, Stored and Transported & Sent to authorized recycler. Discarded barrels/ containers/ liners will be Collected, Stored, Transported & Sent to authorized recycler. Distillation Residue, Incinerable Liquid Waste, Organic Residue will be Collected, Stored, Transported & disposal at nearest Incineration site. Hazardous waste like potassium bromide, Cuprous Hydroxide, sodium sulfite, sodium bisulfite will be collected, stored and sell to end user who is having Rule-9 Permission.	Company has sufficient storage area to store the hazardous waste and details are given below: PM warehouse Size 25 mtr. x 10 mtr. x 6 mtr. All hazardous waste listed in EC are disposed as per the Hazardous waste guideline, 2016.
	Socio-Economic	Overall growth & development of area,	Project activities	General area planning in advance by GIDC and classified as notified industrial estate by GIDC	Company has given 80% employment to local people.

		increased employment, improvement in infrastructure and growth of downstream industries			And also distribute the fund for improvement in infrastructure and development of area.	
	Noise	Increased noise level	Project operation	Oiling and lubrication, Earplugs and Earmuffs will be provided Maximum possible area will be covered as greenbelt and other forms of greenery.	It is recommended to measure and maintain records of noise level at various places within and outside factory premises. Manufacturers / suppliers of major noise generating equipment / machines like compressors, turbines, generators are asked to take required measures for minimizing the noise levels generated by machines by using noise absorbing	

					material for various enclosures or using appropriate design / technology for fabricating / assembling the machines. Audiometric tests are conducted periodically for the employees working close to the high noise sources.	
	Infrastructure & Services	Improved communication, transport, housing, educational & medical facilities	Project	Development has been gradual	Beneficial impact	
	Environmental Hazards	Risk to environment & neighboring population	Handling and storage of chemicals & fuels	On site & off site Disaster management plan & Safe practices.	Company has prepared the onsite emergency plan for safety purpose.	

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<td>X</td>
<td>The company shall undertake CSR activities and all relevant measures for improving the socio-economic conditions of the surrounding area.</td>
<td>The company undertakes eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment
We have provided the tree guards to nearby village like, Dahej, Zadeshwar and Haldarwa. We have done CSR activity at Van Sanrakasan, Bhadbhoot, and Village: Dahej, Village: Luvara and Village: Jolva.

<table>
<tr><th>Year</th><th>Activity</th><th>Fund (Rs.)</th></tr>
<tr><td rowspan="2">2014</td><td>Contribute to make Road in village Dahej</td><td>5,00,000/-</td></tr>
<tr><td>To construct the gram panchayat, Dahej</td><td>3,00,000/-</td></tr>
<tr><td rowspan="2">2015</td><td>Plantation of trees in zandeshwar</td><td>4,00,000/-</td></tr>
<tr><td>Development of school in Dahej Village</td><td>5,00,000/-</td></tr>
<tr><td rowspan="2">2016</td><td>Plantation of trees in Dahej</td><td>2,00,000/-</td></tr>
<tr><td>Development of pond in jolva Village</td><td>600,000/-</td></tr>
<tr><td rowspan="4">2017</td><td>Study material distribution to poor students in school</td><td>3,50,000/-</td></tr>
<tr><td>Support to Sports activities in neighbouring schools</td><td>1,50,000/-</td></tr>
<tr><td>Support to Library infrastructure / computer education</td><td>5,00,000/-</td></tr>
<tr><td>Solar Panel in Saykha village</td><td>5,00,000/-</td></tr>
<tr><td rowspan="3">2018</td><td>Solar Panel in Saykha village</td><td>5,00,000/-</td></tr>
<tr><td>Providing basic infrastructure for Drinking Water, sanitation in neighbouring schools in village</td><td>10,00,000/-</td></tr>
<tr><td>Donation to Social club for special event/festival</td><td>2,50,000/-</td></tr>
<tr><td>Total</td><td></td><td>57,50,000/-</td></tr>
</table>
In view of the information furnished by the PP, the stipulated condition is considered complied subject to clarity on the unit meeting the requirement of allocation of funds</td>
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<tr><td></td><td></td><td>under CSR as per Companies Act and if applicable, the details thereof.

PP shall ensure adequate funds for creation of tangible assets are spent on an yearly basis for socio-economic upliftment of the surrounding area. A time targeted action plan in this respect shall be furnished to the MOEFCC, RO Bhopal for review.

COMPLIED SUBJECT TO CONDTION</td></tr>
<tr><td>xi</td><td>The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.</td><td>The company undertakes eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment
We have provided the tree guards to nearby village like, Dahej, Zadeshwar and Haldarwa. We have done CSR activity at Van Sanrakasan, Bhadbhoot, and Village: Dahej, Village: Luvara and Village: Jolva

In view of the information furnished by the PP, the stipulated condition is considered complied.
COMPLIED</td></tr>
<tr><td>xii</td><td>A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.</td><td>Company has separate Environmental Management Cell equipped with full fledged laboratory facilities which is attached as below:

<table>
<tr><th>Sr. No.</th><th>Name of Staff person</th><th>Qualification</th><th>Designation</th></tr>
<tr><td>1</td><td>Mr. D.N Rai</td><td>B.Tech In Chem. Engg</td><td>Director</td></tr>
<tr><td>2</td><td>Mr. Shivji Prashad</td><td>Msc. Organic Chemistry/ PDIS</td><td>EHS Sr. Manager</td></tr>
<tr><td>3</td><td>Mr. Jayesh Barvadiya</td><td>Bsc. Chemistry /PDIS</td><td>EHS Manager</td></tr>
<tr><td>4</td><td>Mr. Vatsal Gharia</td><td>Msc. In En Biotechnology</td><td>Ass-Manager</td></tr>
<tr><td>5</td><td>Mr. Manish Gupta</td><td>Bsc. Chemistry</td><td>Supervisor</td></tr>
<tr><td>6</td><td>Mr. Bhaskar patil</td><td>AOCP</td><td>Supervisor</td></tr>
<tr><td>7</td><td>Mr. Rajendra Dodiya</td><td>AOCP</td><td>Operator</td></tr>
<tr><td>8</td><td>Mr. Arjun Gohil</td><td>AOCP</td><td>Operator</td></tr>
<tr><td>9</td><td>Mr. Bharat Vasava</td><td>AOCP</td><td>Operator</td></tr>
<tr><td>10</td><td>Mr. Ranchchod Gohil</td><td>AOCP</td><td>Operator</td></tr>
<tr><td>11</td><td>Mr. Ajay Jadon</td><td>AOCP</td><td>Operator</td></tr>
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<td>M/s. Hemani Industries Limited (Unit-3) developed its own laboratory equipped with different equipment i.e. analytical balance, pH meter, COD digester (heating) apparatus, oven, incubator and necessary glass-wares.

In view of the information furnished by the PP, the stipulated condition is considered complied subject to recruitment of personnel with Environmental Engineer/Environmental Sci. in the EMC.
COMPLIED SUBJECT TO CONDTION</td>
</tr>
<tr>
<td>xiii</td>
<td>The company shall earmark sufficient funds for recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.</td>
<td>The funds so earmarked for environment management/ pollution control measures is not be diverted for any other purpose. Company has allotted Rs. 6 Crore for environment management/ pollution control measures.

The company has earmarked sufficient funds for recurring cost per annum to implement the conditions:

Year-2014
<table>
<tr><th>Components</th><th>Capital Cost (Rs.)</th><th>Recurring Cost (Rs.)</th></tr>
<tr><td>ETP</td><td>0.75 Crore</td><td>797000/-</td></tr>
<tr><td>MEE</td><td>0.5 Crore</td><td>6752000/-</td></tr>
<tr><td>APCM</td><td>0.30 Crore</td><td>120000/-</td></tr>
<tr><td>Incinerator</td><td>0.75 Crore</td><td>6366000/-</td></tr>
<tr><td>RO Plant</td><td>0.10 Crore</td><td>152000/-</td></tr>
<tr><td>Audit, Monitoring, Documentation, ETP strengthening</td><td>0.10 Crore</td><td>16242700/-</td></tr>
<tr><td>Misc.</td><td>0.1 Crore</td><td></td></tr>
<tr><td>Total</td><td>2.60 Crore</td><td>30292900/-</td></tr>
</table>
Year-2015</td>
</tr>
</table>

Components	Capital Cost (Rs.)	Recurring Cost (Rs.)
ETP	0.75 Crore	797000/-
MEE	0.75 Crore	7500000/-
APCM	0.50 Crore	150000/-
Incinerator	0.75 Crore	6366000/-
RO Plant	0.10 Crore	150000/-
Audit, Monitoring, Documentation, ETP strengthening	0.10 Crore	17000000/-
Hazardous Waste	0.25 Crore	20000000/-
Misc.	0.1 Crore	--
Total	**3.05 Crore**	**51963000/-**

Year-2016

Components	Capital Cost (Rs.)	Recurring Cost (Rs.)
ETP	1.0 Crore	1520500/-
MEE	0.75 Crore	13400000/-
APCM	0.50 Crore	150000/-
Incinerator	0.75 Crore	6366000
RO Plant	0.10 Crore	150000
Audit, Monitoring, Documentation, ETP strengthening	0.10 Crore	47000000
Hazardous	0.25 Crore	22000000

waste		/-
Misc.	0.1 Crore	
Total	**3.30 Crore**	**805865000/-**

Year-2017

Components	**Capital Cost (Rs.)**	**Recurring Cost (Rs.)**
ETP	1.50 Crore	2152500/-
MEE	1.00 Crore	21930000
APCM	0.80 Crore	150000/-
Incinerator	1.5 Crore	10580000
RO Plant	0.40 Crore	150000
Audit, Monitoring, Documentation, ETP strengthening	0.40 Crore	69000000
Haz. Waste	0.40 Crore	19000000
Misc.	0.4 Crore	
Total	**6.40 Crore**	**122962500/-**

Components	**Capital Cost (Rs.)**	**Recurring Cost (Rs.)**
ETP	1.50 Crore	2390782/-
MEE	1.00 Crore	21930000
APCM	0.80 Crore	180000
Incinerator	1.5 Crore	12732000
RO Plant	0.40 Crore	607950
Audit, Monitoring,	0.40 Crore	81213556

		<table><tr><td>Documentation, ETP strengthening</td><td></td><td></td></tr><tr><td>Haz. Waste</td><td>0.40 Crore</td><td>27000000</td></tr><tr><td>Misc.</td><td>0.4 Crore</td><td></td></tr><tr><td>Total</td><td>6.00 Crore</td><td>145874288/-</td></tr></table> **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**
xiv	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	A copy of the clearance letter is sent by the project proponent to concerned Panchayat, Zila Parisad, Urban local Body vide letter no. HIL/159/12-13 dated 05/09/2012. **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**
xv	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the Gujarat Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status reports shall be posted on the website of the company.	After the site visit was conducted by Regional Officer, MoEF&CC, Bhopal, we have timely submitted six monthly reports (April, 2018 to September, 2018 & October, 2018 to March, 2019) **In view of the recent submissions of six –monthly compliance after the previous site visit, the stipulated condition is currently considered complied.** **COMPLIED**
xvi	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the Gujarat Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended	Company submits the regular Form V to GPCB as per EPA Rules. **Date of the last Environmental statement submission: 10/09/2017.**

	subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the Bhopal Regional Offices of MoEF by e-mail.	 FORM -V (See Rule 14) From : HEMANI INDUSTRIES LTD To , Gujarat Pollution Control Board Paryavaran Bhavan Sector-10 A Gandhinagar- 382010 Environmental Statement for the financial year ending the 31'st March 2010 PART –A 1) Name and address of the Industry: 2)Industry Category : Medium Scale 3)Industry Capacity : 1. Meta Phenoxy Benzaldehyde- 100 MT/Month 2. Meta Bromo Nitro Benzene- 100 MT/Month 3. Meta Bromo anisole 100 MT/Month 4. Lambda-Cyhalothrin 50 MT/Month 5. D V Acid Chloride/DMAC 200 MT/Month **In view of the information furnished by the PP, the stipulated condition is considered complied subject to submission of elaborated compliance on the contents of the stipulated condition with specific details.** **COMPLIED SUBJECT TO CONDTION**
xvii	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	Company received the EC Letter on 02/09/2012 and given the advertisement within the week as per the MoEF guidelines. EC issue date: 30/08/2012 and Advertisement Publish date: 05/09/2012, So we complied the conditions.  PUBLIC NOTICE ENVIRONMENTAL CLEARANCE It is hereby informed that the Ministry of Environment & Forests, IA Division, Government of India, New Delhi, has accorded Environmental Clearance for Expansion of Pesticides Manufacturing Plant (620 MTPM to 1862 MTPM), at Plot No. CH-5, GIDC Estate, Dahej, Tal: Vagra, Dist. Bharuch 392130 (Guj) of **M/s. Hemani Intermediates Private Limited** vide letter No. J-11011/583/2010-IA II (I) dated 30/08/2012, **under the provision of EIA Notification dated 14" September 2006.** Copies of Clearance letter are available with the SPCB and may also be seen at website of MoEF, www.envfor.nic.in **Date : 03/09/2012** **AUTHORIZED SIGNATORY** **HEMANI INTERMEDIATES PVT. LTD.**  AUTHORIZED SIGNATORY HEMANI INTERMEDIATES PVT. LTD.

<table>
<tr><td></td><td></td><td>In view of the information furnished by the PP, the stipulated condition is considered complied.
COMPLIED</td></tr>
<tr><td>xvii</td><td>The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.</td><td>Company took two times bank loan for the existing project and details are given below:

<table>
<tr><td>Name of Bank</td><td>Loan Amount (Rs.)</td><td>Date of Loan Sanction</td><td>Loan Closing Date</td></tr>
<tr><td>Citi Bank</td><td>7,03,40,000</td><td>03-12-2009</td><td>03-12-2014</td></tr>
<tr><td>DBS Bank</td><td>6,94,92,846</td><td>28-02-2010</td><td>26-02-2015</td></tr>
</table>
Consent to Establish: GPCB CTE Letter: GPCB/CE/BRCH-B-CCA-33(3)/ ID -12155/141187 Dated: 20/03/2013
Date of land development: June, 2013
Consent to Operate: GPCB CTO Letter: 54305 Dated: 05/06/2013
Date of commissioning: March, 2013

In view of the information furnished by the PP, the stipulated condition is considered complied
COMPLIED</td></tr>
</table>