

Date: 02-07-2021

Ref.: SGEPL/CIL-TECH /EC-Comp/01/2021

To,  
**The Ministry of Environment, Forests & Climate Change**  
Regional Office, Western Region,  
"Kendriya Paryavaran Bhavan", Link Road No.3,  
E-5, Ravishankar Nagar,  
Bhopal - 462 016, State: M.P, India

Kind Attn. : Mr. H.V.C. Chary Guntupalli

**Sub: Submission of compliance report of M/s. Cheminova India Limited (Technical Division) for our EC No. IA-J-11011/85/2018-IA-II(I); dated 25/11/2019 for the period of December 2020 to May 2021.**

Respected Sir,

In accordance to the condition specified in our EC, we hereby submit duly filled datasheet for monthly Monitoring report (December 2020 to May 2021) for implementation of stipulated conditions of our EC together with point wise compliance status of various stipulations.

We hereby submit the duly filled datasheet as per data for the period of December 2020 to May 2021.

Following are the Annexure to this report:

Annexure No.	Annexure Details
A	Six Monthly Monitoring report data sheet
1	Compliance report of EC
2	Compliance report of CC&A/CTO Amendment
3	Copy of existing EC and CC&A/CTO
4	Annual return- Form-4 (2019-2020)
5	Environmental statement- Form V (2019-2020)

Please find the above in order and acknowledge receipt.

Thanking You,  
Yours faithfully,

For M/s. Cheminova India Limited (Technical Division)

  
Authorized Signatory  
Copy to:

1. The Secretary, Forest and Environment Department, Government of Gujarat, Block 14, 8<sup>th</sup> Floor, Sachivalaya, Gandhinagar (Gujarat)-10.
2. The Member Secretary, Central Pollution Control Board, Parivesh Bhavan, CBD-Cum Office Complex, East Arjun Nagar, New Delhi – 32.
3. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector – 10A, Gandhinagar (Gujarat) – 10.

# SIX MONTHLY EC COMPLIANCE REPORT

(December 2020 to May 2021)

For

M/s. Cheminova India Limited (Technical Division)  
(Manufacturing of Agrochemicals & their  
Intermediates)

Plot No. 241, 242/2, 241/P Notified GIDC Industrial Estate,  
Panoli- 394 116,  
Dist. Bharuch, State-Gujarat, India.

Submitted to:

The Ministry of Environment, Forests & Climate Change  
Regional Office, Western Region,  
"Kendriya Paryavaran Bhavan", Link Road No.3,  
E-5, Ravishankar Nagar,  
Bhopal - 462 016, State: M.P, India

### Table of Contents

A - MONITORING REPORT - DATA SHEET .....	3
ANNEXURE 1 - COMPLIANCE REPORT OF EC .....	8
ANNEXURE 2 - COMPLIANCE REPORT OF CC&A/CTO & ITS AMENDMENT .....	22
ANNEXURE 3 - COPY OF EXISTING EC, NOC/CTE AND CC&A/CTO .....	46
ANNEXURE 4 - ANNUAL RETURN- FORM- 4 (2019-2020) .....	87
ANNEXURE 5 - ENVIRONMENTAL STATEMENT – FORM V (2019-2020).....	92

# Six Monthly EC Compliance Report

## A – Six Monthly Monitoring Report - DATA SHEET

Monitoring the Implementation of Environmental Safeguards

Ministry of environment & Forests

Regional Office (W), Bhopal

Six Monthly Monitoring Reports

PART - 1

From: 01.12.2020 to 31.05.2021

No. SC/CIL-Tech/ EC-Datasheet/01-2021	
1	Project Type : River-Valley / Mining/ Industry / Thermal / Nuclear / Other (Specify) : Agrochemicals & their Intermediates
2	Name of the Project : Expansion Of Agrochemicals & their Intermediates at Existing Unit M/s. Cheminova India Limited (Technical Division)
3	Clearance Letter(s)/ OM No. & Date : IA-J-11011/85/2018-IA-II(I) Date: 25 <sup>th</sup> November 2019
4	Location
	a]. District (s) : Bharuch
	b]. State (s) : Gujarat
	c]. Latitude / Longitude : 21°34'30.39"N/ 72°59'50.39"E
5	Address for Correspondence : Plot No. 241, 242/2, 241/P Notified GIDC Industrial Estate, Panoli- 394 116, Dist. Bharuch, State-Gujarat, India.
	a]. Address of Concerned Project Chief Engineer With Pin code & Telephone / Telex / Fax Numbers. : Mr. Abhay Arora Tel. 9033978613-17
	b]. Address of Executive Project Engineer / Manager (with Pin code / Fax Number) : Mr. Abhay Arora Tel. 9033978613-17
6	Salient Features
	a]. Of the Project : As detailed below
	Components Proposed Scenario
	EC No. IA-J-11011/85/2018-IA-II(I)
	Environmental Clearance accorded for - Product name attached in Annexure-1
	Total Power Requirement 3500 KVA
	Source of Power Captive Power Plant & DGVCL
	Fresh Water requirement 261 KL/day
	Source of Water Supply GIDC water supply
	Wastewater Generation Total: 670.5 KL/day Industrial : 631 KL/day Domestic : 39.5 KL/day
	Process Emissions HCl, Chlorine & CO
	Flue Gas Emission Due to combustion of Natural gas, HSD in boiler, Incinerator.
	Fuel Type Natural Gas and H.S.D

## Six Monthly EC Compliance Report

Fuel Requirement		Natural Gas- 15500 Sm <sup>3</sup> /day, H.S.D.- 4320 l/day	
Man power		Total: 200 (Company employee) + 500 (Contract employee)	
b). Of the Environmental Management Plans		:	As follows.
Sr. No.	Activity	Status	
1	Formulation of EHS cell Constitutes EHS in charge, ETP super visor and operators, Lab chemist and assistants	EHS cell consists of EHS in charge, ETP super visor and operators, Lab chemist and assistants.	
2	<p>For Air Environment Management</p> <p>✓ To monitor the ambient air quality parameters and flue gas emissions within premises and also in the nearby area regularly and to compare with the regulating standards so that any necessary corrective actions can be taken.</p> <p>✓ Work place monitoring to be carried out periodically to check fugitive emissions, if any.</p> <p>✓ To develop and maintain greenbelt, in and around the factory, for reducing the effect of air pollutants due to their deposition.</p> <p>✓ To follow proper loading and unloading practices to minimize dusting</p> <p>✓ To maintain proper record for the fuel consumption, start-up time and duration of boiler operation towards energy conservation</p>	<p>✓ Company maintains its own records and monitors the ambient air and flue gas emission within premises periodically. Monitoring of ambient air &amp; flue gas analysis is done by Siddhi Green Excellence Pvt Ltd., Ankleshwar.</p> <p>✓ Work place monitoring to be carried out periodically by Siddhi Green Excellence Pvt Ltd., Ankleshwar.</p> <p>✓ Unit has developed &amp; maintained greenbelt area inside the factory.</p> <p>✓ Unit is having closed system for loading and unloading of chemicals.</p> <p>✓ Unit is maintaining records for the fuel consumption, start-up time and duration of boiler operation towards energy conservation</p>	
3	<p>For Water Environment Management</p> <p>✓ To investigate possibilities of water reuse and recycling for reducing water consumption and wastewater generation</p> <p>✓ Records of water consumption, effluent generation, effluent discharge, water characteristics, treated and untreated effluent characteristics to be maintained.</p> <p>✓ To monitor the adequacy and efficiency of ETP so that the effluent is given suitable treatment and the treated effluent meets specified norms of available CC&amp;A of GPCB.</p> <p>✓ The effluent collection and discharge drainages, effluent handling and treatment systems to be maintained and regularly monitored to prevent leakages or sudden break-down.</p> <p>✓ Proper house-keeping to be adopted to prevent spillages and contaminated surface runoff going to storm water</p>	<p>✓ Reuse and recycling options are being investigated together with feasibility of rainwater harvesting</p> <p>✓ Unit is maintaining records of water consumption, effluent generation, effluent discharge, water characteristics, treated and untreated effluent characteristics.</p> <p>✓ The adequacy and efficiency of ETP is maintained well and the effluent is treated appropriately at all the stages. It is ensured that the treated effluent meets specified norms of as specified in CC&amp;A of GPCB.</p> <p>✓ The effluent collection and discharge drainages, effluent handling and treatment systems are maintained and regularly monitored to prevent leakages or sudden break-down by preventive maintenance of all ETP units is taken periodically by taking appropriate proactive actions.</p> <p>✓ Good house-keeping have been implemented by the unit to prevent</p>	

## Six Monthly EC Compliance Report

	drains.	spillages and contaminated surface runoff going to storm water drains.
4	<p>For Hazardous / Non-hazardous waste management</p> <p>) Proper storage and handling arrangements in compliance to the conditions of authorization granted by SPCB.</p> <p>) Proper signboards to be provided at relevant places.</p> <p>) All the necessary regulatory procedures as per the amended Hazardous Waste Management &amp; Handling Rules – 2003 to be followed and adhered with.</p> <p>) The transportation of hazardous waste to the TSDF Site to be as per the guidelines and accompanied with Form-9.</p> <p>) Monthly records of generation, storage and disposal of hazardous waste should be maintained in a record register as per the format of Form-3 as per amended Hazardous Waste rules – 2003 and annual returns of disposal to be submitted to SPCB in prescribed form – 4 and form – 13.</p>	<p>)Unit has a separate ware house for storage of raw materials, solvents and finished goods with proper handling equipments.</p> <p>)Signboards are provided at relevant places.</p> <p>)Unit is following the same as per the amended Hazardous Waste Management &amp; Handling Rules – 2016</p> <p>)Unit is following guideline for transportation of hazardous waste to TSDF &amp; CHWIF of M/s. BEIL.</p> <p>)Monthly records of generation, storage and disposal of hazardous waste are maintained in a record register as per the format of Form-3 as per amended Hazardous Waste rules – 2003 and annual returns of disposal of all the hazardous waste are submitted to GPCB in prescribed forms – 4 and form – 13.</p>

Note: Environment Statement – Form V (Financial year -2019-2020) is attached as Annexure-5.

7	Production details during compliance period and (or) during the previous financial year	:	<table><tr><th colspan="2">Production Details</th></tr><tr><th>Month</th><th>Quantity (MTM)</th></tr><tr><td>December 2020</td><td>88.81</td></tr><tr><td>January 2021</td><td>108.913</td></tr><tr><td>February 2021</td><td>100.276</td></tr><tr><td>March 2021</td><td>98.06</td></tr><tr><td>April 2021</td><td>75.759</td></tr><tr><td>May 2021</td><td>84.377</td></tr></table>	Production Details		Month	Quantity (MTM)	December 2020	88.81	January 2021	108.913	February 2021	100.276	March 2021	98.06	April 2021	75.759	May 2021	84.377
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8	Break Up of the Project Area	:	Unit is located in G.I.D.C Panoli. (Notified area)																
	a]. Submergence area : forest & Non-forest																		
	b]. Others																		
9	Breakup of the project affected population with enumeration of those losing houses / dwelling units, only agricultural land, dwelling units & agricultural land & landless laborers / artisan.	:	Not applicable since unit is located in G.I.D.C Panoli (Notified area)																
	a]. SC , ST / Adivasis	:	---																
	b]. Others	:	---																
	(Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey is carried out give details and years of survey)	:	---																
10	Financial Details	:																	
	a]. Project cost as originally planned and subsequent revised estimates and the year of	:	Rs. 365.92 crore (For Proposed Expansion only)																

## Six Monthly EC Compliance Report

	price reference																																						
	b]. Allocation made for environmental management plans with item wise and year wise break-up.	:	As follows																																				
	<table> <tr> <th>Sr. No.</th><th>Particulars</th><th>Recurring Cost Per Annum [Rs. In lakh]</th><th>Capital Cost (Rs. In lakh)</th></tr> <tr> <td>1</td><td>Air Pollution Control</td><td>200</td><td>565</td></tr> <tr> <td>2</td><td>Water Pollution Control</td><td>1260</td><td>925</td></tr> <tr> <td>3</td><td>Noise Pollution Control</td><td>0.5</td><td>0.5</td></tr> <tr> <td>4</td><td>Environment Monitoring &amp; Management</td><td>90</td><td>98</td></tr> <tr> <td>5</td><td>Occupational Health &amp; Safety</td><td>20</td><td>25</td></tr> <tr> <td>6</td><td>Green Belt development &amp; maintenance</td><td>1.5</td><td>1.5</td></tr> <tr> <td>7</td><td>Solid waste management</td><td>5243</td><td>100</td></tr> <tr> <td colspan="2">TOTAL Planned</td><td>6815.0</td><td>1715</td></tr> </table>	Sr. No.	Particulars	Recurring Cost Per Annum [Rs. In lakh]	Capital Cost (Rs. In lakh)	1	Air Pollution Control	200	565	2	Water Pollution Control	1260	925	3	Noise Pollution Control	0.5	0.5	4	Environment Monitoring & Management	90	98	5	Occupational Health & Safety	20	25	6	Green Belt development & maintenance	1.5	1.5	7	Solid waste management	5243	100	TOTAL Planned		6815.0	1715		
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6	Green Belt development & maintenance	1.5	1.5																																				
7	Solid waste management	5243	100																																				
TOTAL Planned		6815.0	1715																																				
	c]. Benefit cost ratio / Internal rate of return and the year of assessment	:	Not applicable																																				
	d]. Whether (c) includes the cost of environmental management as shown in the above	:	Yes																																				
	e]. Actual expenditure incurred on the project so far	:	--																																				
	f]. Actual expenditure incurred on the Environmental Management Plan so far	:	--																																				
11	Forest land Requirement	:	Not applicable since unit is located in G.I.D.C Panoli (Notified area)																																				
	a]. The status of approval for diversion of forest land for non-forestry use	:	--																																				
	b]. The Status of clearing felling	:	--																																				
	c]. The status of compensatory afforestation, if any	:	--																																				
	d]. Comments on the viability & sustainability of compensatory afforestation programme in the light of actual field experience so far	:	--																																				
12	The status of clear felling in non-forest areas (such as submergence area of reservoir, approach roads), if any with quantitative information.	:	Not applicable since unit is located in G.I.D.C Panoli (Notified area)																																				
13	Status of construction	:	Construction Initiated																																				
	a]. Date of commencement (Actual and / or Planned).	:	May 2021																																				
	b]. Date of completion (Actual and / or Planned)	:	Based on the commissioning of project within Five years.																																				
14	Reasons for the delay if the project is yet to start	:	Not applicable																																				
15	Dates of site visits	:																																					
	a]. The dates on which the project was monitored by the MoEF&CC, Regional Office on	:	20/09/2019																																				

## Six Monthly EC Compliance Report

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	Previous occasions, (if applicable)		
	b]. Date of site visit for this monitoring project	:	--
16	Details of correspondence with project authorities for obtaining action plans / information on status of compliance to safeguards other than the routine letters for logistic support for site visits	:	--
	(The first monitoring report may contain the details of all the letters issued so far but the later reports may cover only the letters issued subsequently.)	:	--

Note: EC compliance report and CC&A/CTO compliance report is attached as Annexure 1 & 2.



## Six Monthly EC Compliance Report

### Annexure 1 -Compliance report of EC

Compliance Report For Stipulated Conditions Of Environmental Clearance EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25 <sup>th</sup> November 2019					
Sr. No.	Conditions				Compliance Status
2.	The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for expansion of agrochemicals and their intermediates from 3533 TPA to 15583 TPA by M/s. Cheminova India Limited (Technical Division) in an area of 40476.94 sqm located at Plot Nos. 241, 242/2,241/P, GIDC Industrial Estate, Panoli, Ankleshwar, District Bharuch (Gujarat).				Noted.
3.	The details of products are as under:-				Noted. Unit shall follow the given condition and shall manufacture these products only after obtaining CTO amendment from GPCB.
	S. NO	Name of Product*	Existing (TPA)	Proposed (TPA)	
	1.	ORGANO PHOSPHATE: - ACEPHATE TECH. (I), DICHLORVOS (I), CHLORPYRIFOS (I), QUINALPHOS (I), TRIAZOPHOS (I), PHOSALONE (I), OMETHOATE (I), PROTHIOFOS (I), TEMEFOS (I), PROFENOFOS (I), ETHION (I), ETHWEPHON (PGR), GLYPHOSATE (H), etc.	800 TPA	---	
	2.	STROBILURIN: - AZOXYSTROBIN TECH. (F), DES-METHOXYAZOXY (DMA) (INT.) KRESOXIM METHYL (F), FLOUXASTROBIN (F), PYRACLOSTROBIN (F).	1200 TPA	---	
	3.	NEONICOTINOID/AMIDE: - IMI DACLOPRID TECH (I), THIAACLOPRID (I), ACETAMIPRID (I), BEFLUBUTAMIDE TECH (H), FLUBENDAMIDE (I), CHLORANTRANILIPROLE (I), RYNEXAPYR (I), CYMOXANIL (F), THIFLUZAMIDE (F), CARBOXIN (F), CAPTAN (F), PRETILACHLOR (H), PROPYZAMIDE (H), PETHOXAMIDE (H), SNA(INT.), (2-AMINOSULFONYL-N,N-DIMETHYLNICOTINAMIDE), MST(INT.), (2-METHOXYCARBONYL) THIOPHENE-3-SULFONAMIDE), FLUFENACET (H), BOSCALID (F) etc.	225 TPA	---	
	4.	KETONE: - DIMETHOMORPH TECH. (F), CLETHODIM (H), BUTROXYDIM (H), SPIROMESIFEN (I), MESOTRIONE (H), SULCOTRIONE (H), IBP (INT.), (ISOBUTYROPHENONE), PYMETROZINE (I) etc.	60 TPA	---	
	5.	ETHER: - PROPARGITE TECH. (I), OXYFLUORFEN (H),	60 TPA	---	

## Six Monthly EC Compliance Report

Compliance Report For Stipulated Conditions Of Environmental Clearance EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25 <sup>th</sup> November 2019						
Sr. No.	Conditions					Compliance Status
		ETOXAZOLE (I), EEA (INT.), (2-ETHOXY ETHYL AMINE), S-CYNO-MPB (INT.) etc.				
6.		ANILINE: - PENDIMETHALIN TECH. (H), METALAXYL (F), FAMOXADONE (F), TRIFLURALIN (H), FIPA-OH (INT.) etc.	60 TPA	---	60 TPA	
7.		ESTER/PYRETHROID: - FENOXAPROP-P-ETHYL TECH. (H), BIFENAZATE (I), QUIZALOFOP-P-ET (H), CLODINAFOP-PPG (H), ACRINATHRIN (I), BIFENTHRIN (I), CYHALOTHRIN (I), GAMMA-CYHALOTHRIN (I), LAMDA- CYHALOTHRIN (I), CYPERMETHRIN (I), AND ITS ANALOGS, DELTA-METHRIN (I), ---CYFLUTHRIN (I) AND ITS ANALOGS, PERMETHRIN (I), BIOALLETHRIN (I), FENVALERATE (I), IMIPROTHRIN (I) etc.	150 TPA	--	150TPA	
8.		CARBAMATE & THIO BASED PRODUCTS: - CARTAP.HCL TECH. (I), THIODICARB (I), THIOPHANATE-ME (F), PROPINEB (F), METIRAM (F), THIRAM (F), ISOPROTHIOLANE TECH (I), THIOCYCLAM (I), PROTHIOCARB (F), FLUTIANIL (F) etc.	100 TPA	---	100 TPA	
9.		QUATERNARY SALT AND OTHER SALTS, ACID BASED PRODUCTS: - MEPIQUAT CHLORIDE TECH. (I), CHLORMEQUAT CHLORIDE (I), OTHER SALTS: COPPER HYDROXIDE (BACTERICIDE,F), COPPER SULPHATE (ALGICIDE,F), etc., FLUPROPANATE-NA TECH (H) + HPAA (INT.)-(2-HYDROXYPHENYLACETIC ACID), BBA (INT.)-(BROMOBUTYRICACID), HPPA-INT.(2-(4-HYDROXYPHENOXY)PROPANATE), PICLORAM (H), DICAMBA (H), 2-CYANOPHENOL (INT.) etc.	68 TPA	---	68 TPA	
10.		TRIAZOLS: - 2,6 DICHLOROBENZOXAZOLE (INT.), ISOXAFLUTOLE (H), FLURASULAM (H), TDA (INT.) (TRIFLUOROMETHYLTHIAZOLE), FLUTRIAFOL TECH (F), PROTHICONAZOLE (F), SULFENTRAZONE (H), CARFENTRAZONE-ET (H) etc.	400 TPA	---	400 TPA	
11.		TRIAZOLS: - FIPRONIL TECH (I), PROPICONAZOLE (F),		---		

## Six Monthly EC Compliance Report

Compliance Report For Stipulated Conditions Of Environmental Clearance EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25 <sup>th</sup> November 2019						
Sr. No.	Conditions					Compliance Status
	EPOXYCONAZOLE (F), TEBUCONAZOLE (F), DIFENOCONAZOLE (F), HEXACONAZOLE (F), TRICYCLAZOLE (F), MYCLOBUTANIL (F), FLUSILAZOLE (F), PACLOBUTRAZOLE (PGR), THIAMETHOXAM (I), CHLOROTHALONIL (F), TRIADIMEFON (F), ISOXADIFEN-ET (SF)					
12	HETEROCYCLIC (PYRIMIDINE/PYRIDINE/TRIAZINE): - BISPYRIBAC-NA TECH. (H), PIRIMICARB (I), PYRITHIOBAC-NA (H), FLUMETSULAM (H), CYPRODINIL (F), FLORASULAM (H), PENOXULAM (H), DCP (INT.)-(4,6-DICHLOROPYRIMIDINE), ACMP (INT.)-(2-AMINO-4-CHLORO-6-METHOXYPYRIMIDINE), IMAZETHAPYR TECH. (H), PYRIDALYL TECH (I), DIFLUFENICAN (H), CLOQUINTOCET-MEXYL(SF)	185 TPA	---	185 TPA		
13	HETEROCYCLIC (PYRIMIDINE/PYRIDINE/TRIAZINE): - FLUAZINAM (F), FENPYROXIMATE TECH. (I), METRIBUZIN (H), AMITRAZ (I), CLOFENTEZINE (I), MMT (INT.)-(2-METHOXY-4-METHYL-6-METHYLAMINO-1,3,5-TRIAZINE, METOXYFENOZIDE (I), FENCHLORIM (SF), 2-HYDROXY-3,5,6-TRYCHLOROPYRIDINE & ITS SODIUM SALT (INT. OF CHLORPYRIPHOS) etc.					
14	UREA/ SULPHONYL UREA: - CHLORIMURON-ET TECH. (H), BUPROFEZIN TECH. (I), INDOXACARB (I), NOVALURON (I), LUFENURON (I), DIAFENTHIURON (I), AMICARBAZONE (H), FLUCARBAZONE (H), THIADIAZURON (PGR), HEXYTHIAZOX (I), LINURON (H), DIURON (H), TEFLUTHRIN (I), METSULFURON-METHYL (H)	225 TPA	---	225 TPA		
15	UREA/SULPHONYL UREA: - THIFENSULFURON-METHYL (H), TRIBURON-METHYL (H), RIMSULFURON (H), IODOSULFURON (H), DIAMURON (H), CHLORSULFURON (H), PYRAZOLESULFURON (H), PYRAZOLESULFURON-ETHYL (H) etc.					
16	4s ZETA CYPERMETHRIN	---	200	200		

## Six Monthly EC Compliance Report

Compliance Report For Stipulated Conditions Of Environmental Clearance EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25 <sup>th</sup> November 2019						
Sr. No.	Conditions					Compliance Status
	17.	F-2700 ZETA CYPERMETHRIN	---	1000	1000	
	18.	RYANXYPYR	---	3000	3000	
	19.	CYAZYPYR	---	1000	1000	
	20.	DBC80 / (3- BROMO -1-(3-CHLORO-2-PYRIDINYL)-1H-PYRAZOLE-5CARBOXYLIC ACID)	---	1950	1950	
	21.	INDANAMINE	--	800	800	
	22.	FMC-57091 /ISOXAZOLIDINONE	---	2600	2600	
	23.	SULFENTRAZONE 2,4- DICHLORO/ 2,4- DICHLOROPHENYL--4-(DIFLOROMETHYL) TRIAZOLONE	---	1500	1500	
		Total	3533	12050	15583	
	*Banned pesticides shall not be produced. Production of either individual or more products in the group shall not exceed the stipulated total production capacity of the group.					
	1.	CAPATIVE POWER PLANT (NATURAL GAS)	2.04 MW/ Hr	---	2.04 MW/ Hr	
4.	Existing land area is 40476.94 sqm. No additional land will be required for the proposed expansion. Industry will enhance existing greenbelt in an area of 13450 sqm covering 33% of total project area. The estimated project cost for expansion is Rs. 365.92 crores. Total capital cost earmarked towards environmental pollution control measures is Rs 17.15 crores and the recurring cost (O&M) will be about Rs 68.15 crores per annum. Total employment will be for 200 persons directly and 500 persons indirectly after expansion.					Noted. Unit shall follow the given conditions.
5.	There are no National parks, Wildlife sanctuaries, Biosphere, Reserves, Tiger/Elephant Reserves, and Wildlife Corridors etc. within 10 km from the project site. Ukai canal is flowing at a distance of 0.28 km in west direction.					Noted.
6.	Total water requirement is estimated to be 898 cum/day, which includes fresh water requirement of 261 cum/day, proposed to be met from GIDC supply.  Industrial effluent of 670 cum/day will be treated through Effluent Treatment Plant having Primary, Secondary & Tertiary Treatments, MEE and RO & shall be recycled back to process. Domestic effluent will be treated through STP after expansion. There will be no discharge of treated /untreated wastewater from the unit, and thus ensuring Zero Liquid Discharge.					Noted. Unit shall follow the given conditions.  Presently treated effluent is discharged into underground conveyance pipeline connected to FETP of M/s. Narmada Clean Tech (NCT). Unit shall ensure zero liquid discharge after obtaining the CTO Amendment. Unit shall follow the given condition.

## Six Monthly EC Compliance Report

Compliance Report For Stipulated Conditions Of Environmental Clearance EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25 <sup>th</sup> November 2019		
Sr. No.	Conditions	Compliance Status
	<p>Power requirement after expansion will be 3500 KVA including existing 2200 KVA and will be met from M/s Dakshin Gujarat Vij Company Limited (DGVCL). Existing unit has one DG set of 1250 KVA capacity, additionally 1 no. DG set of 1500 KVA will be used as stand by during power failure for proposed expansion.</p> <p>Existing unit has natural gas based WHRB- Captive power plant, 2 nos. of natural gas based boilers of 10 TPH and 5 TPH capacity and one natural gas based thermic fluid heater of 10 lakh Kcal/h will be installed additionally in the proposed expansion. Water scrubbers and alkali scrubbers shall be installed for controlling emissions.</p>	Unit shall follow the given condition.
7.	The project/activities are covered under category A of item 5(b) 'Pesticides industry and Pesticide specific intermediates' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry.	Noted.
8.	Standard terms of reference (ToR) for the project was granted on 8 <sup>th</sup> April, 2018. Public hearing is exempted in accordance with the Ministry's OM dated 27 <sup>th</sup> April 2018, as the project site is located in the notified industrial area.	Noted.
9.	The proposal for environmental clearance was considered by the EAC (Industry-2) in its meetings held on 26-28 June, 2019 and 28-29 August, 2019 in the Ministry, wherein the project proponent and their accredited consultant M/s. Siddhi Green Excellence Pvt. Ltd presented the EIA/EMP report. The Committee found the EIA/EMP complying with the terms and conditions of the ToR, and recommended the proposal for environmental clearance to the project with certain conditions.	Noted. Unit shall adhere and comply to all the given conditions.
10.	The proposal was further examined in the Ministry in accordance with the Ministry's Office Memorandum No. 22-23/2018-IA.III (pt) dated 31 <sup>st</sup> October 2019 and Ministry's communication No. Q-16017/38/2018-CPA dated 24 <sup>th</sup> October 2019 regarding compliance of Hon'ble NGT order dated 19.8.2019 (published on 23.8.2019) in OA No. 1038/2018.	Noted.
11.	Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for Expansion of agrochemicals and their intermediates from 3533 TPA to 15583 TPA by M/s. Cheminova India Limited (Technical Division) at Plot Nos. 241, 242/2, 241/P, GIDC Industrial Estate, Panoli, Ankleshwar, District Bharuch (Gujarat), under the provisions of the EIA Notification, 2006, read with subsequent amendments therein, subject to compliance of the terms and conditions as environmental safeguards, as under:-	Noted.
	(i) Consent to Establish/Operate (CTE/CTO) for the project shall be obtained from the State Pollution Control Board (SPCB) as required under the Air (Prevention and Control of Pollution) Act, 1981 and the water (Prevention and Control of Pollution ) Act, 1974, and the SPCB shall follow the mechanism/protocol issued by the Ministry vide letter no. Q-16017/38/2018-CPA dated 24 <sup>th</sup> October, 2019 and forwarded by Central Pollution	Consent to Establish has been obtained by GPCB, Outward No. 15867 on dated 4 <sup>th</sup> June 2020.

## Six Monthly EC Compliance Report

Compliance Report For Stipulated Conditions Of Environmental Clearance EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25 <sup>th</sup> November 2019		
Sr. No.	Conditions	Compliance Status
	Control Board vide letter dated 25 <sup>th</sup> October, 2019 to the SPCB's while issuing the CTE/CTO for the project, for improvement of environmental quality in the area.	
(ii)	Necessary permission as mandated under the Water (Prevention and control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act 1981, as applicable from time to time, shall be obtained from the State Pollution Control Board.	Unit shall follow the given conditions.
(iii)	Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.	Unit shall follow the given conditions.
(iv)	As proposed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged to any surface water body, sea and/or on land.	Unit shall follow the given conditions.
(v)	National Emission Standards for Pesticides Manufacturing Industry issued by the Ministry vide G.S.R.446(E) dated 13 <sup>th</sup> June, 2011, as amended from time to time, shall be followed.	Unit shall follow the given conditions.
(vi)	No pesticides/chemicals banned by the Ministry of agriculture and Farmers welfare, or having LD <sub>50</sub> <100 mg/kg shall be produced. Also, no raw material/solvent prohibited by the concerned regulatory authorities from time to time, shall be used for production of pesticides.	Unit commits that No pesticides/chemicals banned by the Ministry of agriculture and Farmers welfare, or having LD <sub>50</sub> <100 mg/kg shall be produced and no prohibited raw material/solvent shall be used for production.
(vii)	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	Unit shall follow the given conditions.
(viii)	Solvent management shall be carried out as follows : a. Reactor shall be connected to chilled brine condenser system. b. Reactor and solvent handling pump shall have mechanical seals to prevent leakages. c. The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery. d. Solvents shall be stored in a separate space specified with all safety measures. e. Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. f. Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. g. All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.	All requirements shall be ensured, fulfilled and taken care during execution of project.
(ix)	Total fresh water requirement shall not excess 261 cum/day to be met from GIDC water supply. Prior	Unit shall follow the given condition only after obtaining CTO

## Six Monthly EC Compliance Report

Compliance Report For Stipulated Conditions Of Environmental Clearance EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25 <sup>th</sup> November 2019		
Sr. No.	Conditions	Compliance Status
	permission in this regard shall be obtained from the concerned regulatory authority.	amendment from GPCB.
(x)	Process effluent/ any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.	Well structured storm water drainage network is already available at site.
(xi)	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.	Unit shall follow the given condition.
(xii)	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.	Unit shall follow the given condition.
(xiii)	The company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act, 1989.	Noted.
(xiv)	The company shall undertake waste minimization measures as below:- 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.	Noted.
(xv)	The green belt of at least 5-10 m width shall be developed in nearly 40% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. In addition, the project proponent shall develop greenbelt outside the plant premises also such as avenue plantation, plantation in vacant areas, social forestry etc.	The unit has developed 13450 sq. m. (~33.23%) of total plot area within plan premises. An Additional 7500 sq.m (18 %) area provided outside premises in GIDC which is in progress and total green belt area will be 51%.
(xvi)	As committed, fund allocation for the Corporate Environment Responsibility (CER) shall be 5% of the total project cost. Item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.	Unit shall follow the given condition. Total 63 lakh have been spent under Corporate Environment Responsibility (CER) for both Technical Division and Intermediate Division. Break up of expenses are as under : 1. Green Belt Development = 8 Lac 2. Rainwater Harvest = 15 Lac 3. C Arm equipment donation to Jayaben Modi Hospital = 23 Lac 4. Oxygen Plant donation to Sardar patel Hospital= 17 Lac

## Six Monthly EC Compliance Report

Compliance Report For Stipulated Conditions Of Environmental Clearance EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25 <sup>th</sup> November 2019				
Sr. No.	Conditions			Compliance Status
	(xvii) Safety and visual reality training shall be provided to employees.			Total expenses are 63 lakh. In house-training programs are conducted on monthly basis for SOPs and safety as per yearly plan. Details as below:
	Sr. No	Training Subject	Trainee Roles	Department
	1.	Hot Work	General Awareness (1) Fire Watch	Security Person/Contract Supervisor/ Trainees
	2.	Confined Space Entry	General Awareness (1) Rescue Team	All Department Employees selected by Production and Mechanical Dept
	3.	Energy Isolation, Lockout/Tagout (LOTO)	General Awareness (1) Other Person  (1) Authorized Person  (2) Affected Person	Finance / Administration / Civil Distribution / Stores / Excise HR / IT /Procurement / Tech Services Safety Mechanical Department Instrument Department Electrical Department Production Environment Utility Quality Control (QC) Research & Development (R&D) Formulation -R&D Boiler
	4.	Elevated Work	Detailed Training (1) Competent Person	
	5.	Line Breaking and Equipment Opening	Detailed Training (1) Equipment Owner (2) Work Performing Group	Production Department Engineering Department
	6.	HAM	Detailed	All Department and Contractor
	7.	Security Standard	Detailed	All Department



## Six Monthly EC Compliance Report

Compliance Report For Stipulated Conditions Of Environmental Clearance EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25 <sup>th</sup> November 2019				
Sr. No.	Conditions			Compliance Status
	8.	Hose Management Standard	Detailed Training	Production / Engineering Contractor
	9.	Decommissioning Lab Standard	Detailed Training	Production, Engineering, Material, EHS, QC, HR Staff
	10.	FMC Laboratory Minimum Safety Standards: MSDS	Detailed Training	QC and R&D Department
		Laboratory Minimum Safety Standards: Glassware Handling	Detailed Training	QC and R&D Department
		FMC Laboratory Minimum Safety Standards: Chemical Storage	Detailed Training	QC and R&D Department
		FMC Laboratory Minimum Safety Standards: Fume Hoods	Detailed Training	QC and R&D Department
	11.	Glove Use Standard	Detailed Training	All Department /visitors /contractors
	12.	PPE	Detailed Training	All Department /visitors /contractors
	13.	MOC	Detailed Training	All Department
	14.	Incident Management standard,	Detailed Training	All Department
		Effective Injury and		
		Illness Case		
		Management Guideline		
	15.	Process Safety Module	Detailed Training	Manufacturing / Engineering /
	16.	No-1 and No-2		Technical Services
	(xviii)	For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.		Unit shall follow the given condition.
	(xix)	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.		The possible arrangement had been made for protection of possible fire hazard during mfg. process and material handling, The Fire hydrant system and fire extinguisher is made available throughout the premises and safe practices are adopted for handling and processing of flammable material

## Six Monthly EC Compliance Report

Compliance Report For Stipulated Conditions Of Environmental Clearance EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25 <sup>th</sup> November 2019		
Sr. No.	Conditions	Compliance Status
	(xx) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Presently, Pre-employment medical checkup of all employees and contract workers is carried out by FMO and records are maintained. Full medical checkup of all employees as well as contract workers is carried out Six-monthly and records are maintained. BCA testing for all employees & workers exposed to production & packaging of pesticides carried by LOVIBOND kit for all before joining and periodic testing-monthly test for contract workers and every 3 months for company employees. Health register in Form No.32 & certificate of fitness is issued to workers by FMO in Form No.33. Photograph of medical checkup report is attached below:

# Six Monthly EC Compliance Report

Compliance Report For Stipulated Conditions Of Environmental Clearance  
EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25<sup>th</sup> November 2019

Sr.  
No.

Conditions

Compliance Status

**MAHAVIR DIAGNOSTIC CENTRE**  
EARLY DIAGNOSIS IS BETTER THAN CURE  
Dr. Amit R. Shah Dr. Pooja Shah  
12/31, Opp. K.M. Bhusli Hall, Maner, Mandi, Near Colony, GIDC, Amleshwar - 393 002, Phone : (92848) 252311 E-mail : shambhushah@yahoo.com

Medical Advisor & Industrial Health Consultant  
Pre-Employment/Periodical Medical Examination  
Pre-Placement Medical Examination  
Executive Health Check-up  
Comprehensive Audiometry, Specially, SCB  
Comprehensive Pathological Laboratory  
First Aid Training, ST. John Ambulance Association  
Semiology, ECG  
TLC, GDA  
Authorized for medical examination of seafarers

**CHEMINOVA INDIA LIMITED GIDC PANOLI (FMC SUBSIDIARY)**  
NAME: Mr. Ajay D. Valand DATE: 18/02/2021  
EMP CODE: 147138 DEPT: S&I UNIT: Chem  
AGE: 53 Years WEIGHT: 62 Kg HEIGHT: 165 cm PULSE: 68/min BP: 134/ 86 mmHg  
VISION: RIGHT LEFT  
NEAR: N/6 N/6 WITH SPECT COLOR VISION: ACCEPTABLE  
FAR: 6/6 6/6

**BLOOD EXAMINATION**

PARAMETERS	FINDINGS	UNITS	NORMAL VALUES	PARAMETERS	FINDINGS	UNITS	NORMAL VALUES
HAEMOGLOBIN	12.6	gms/dl	[M:13-17, F:11-16]	BL SUGAR (R)	02	mg/dl	[80 - 120]
WBC COUNT	8100	/mm <sup>3</sup>	[4000 - 11000]	S. CHOLESTEROL	187	mg/dl	[150 - 250]
NEUTROPHILS	67	%	[40 - 75]	S. G.P.T.	24	u/l	[4 - 38]
LYMPHOCYTES	32	%	[20 - 40]	S. CREATININE	1.1	mg/dl	[0.7 - 1.5]
EOSINOPHILS	1	%	[01 - 06]	RBC Count	4.80	lacs/mm <sup>3</sup>	[4.0 - 6.5 lacs]
MONOCYTES	0	%	[02 - 07]	PLATELETS	210000	/cu mm	[1.5 - 4.5 lacs]
MCH	25.3	pg	[27 - 32]	BCA %	80.00	%	[= 72.5]
MCHC	27.4	%	[30 - 36]	RBC CHOLINESTERASE	800	u/ml	[775 - 990]
PCV	40.0	%	[39 - 54]	BLOOD GROUP:	O	RH:	NEGATIVE

**URINE EXAMINATION**

PHYSICAL:	CHEMICAL:	MICROSCOPIC:
QUANTITY: 10 ML	ALBUMIN: Absent	RBC: Absent
COLOR: PALE YELLOW	SUGAR: Absent	PCB CELL: Occasional
APPEARANCE: CLEAR	BILE SALT: Absent	CRYSTAL: Absent
DEPOSIT: Absent	BILE PTC: Absent	EPITHELIAL: Absent
	BILE GLUC: Absent	CAST: Absent

**LUNG FUNCTION TEST**

	RESULT	PREDICTED	NORMAL
FVC	2.78	3.40	82
FEV1	2.76	2.85	97
PEF	7.50	7.01	107
FEF 25-75%	4.71	3.48	136

**AUDIOMETRY TEST**

FREQ.	500	1K	2K	4K	6K	8K
RIGHT	20	25	30	65	55	65
LEFT	25	20	15	60	35	30

E.C.G.: WITHIN NORMAL LIMIT  
REMARKS: NOT SUFFERING FROM ANY INFECTIOUS OR OBNOXIOUS DISEASE  
Dr. Amit Shah  
Medical Health Consultant  
MBBS, AFPH

**MAHAVIR DIAGNOSTIC CENTRE**  
EARLY DIAGNOSIS IS BETTER THAN CURE  
Dr. Amit R. Shah Dr. Pooja Shah  
12/31, Opp. K.M. Bhusli Hall, Maner, Mandi, Near Colony, GIDC, Amleshwar - 393 002, Phone : (92848) 252311 E-mail : shambhushah@yahoo.com

Medical Advisor & Industrial Health Consultant  
Pre-Employment/Periodical Medical Examination  
Pre-Placement Medical Examination  
Executive Health Check-up  
Comprehensive Audiometry, Specially, SCB  
Comprehensive Pathological Laboratory  
First Aid Training, ST. John Ambulance Association  
Semiology, ECG  
TLC, GDA  
Authorized for medical examination of seafarers

**CHEMINOVA INDIA LIMITED GIDC PANOLI (FMC SUBSIDIARY)**  
NAME: Mr. Mayur H Shah DATE: 18/02/2021  
EMP CODE: 147217 DEPT: S&I UNIT: Manufacturing  
AGE: 53 Years WEIGHT: 50 Kg HEIGHT: 158 cm PULSE: 84/min BP: 120/ 89 mmHg  
VISION: RIGHT LEFT  
NEAR: N/6 N/6 WITH SPECT COLOR VISION: ACCEPTABLE  
FAR: 6/6 6/6

**BLOOD EXAMINATION**

PARAMETERS	FINDINGS	UNITS	NORMAL VALUES	PARAMETERS	FINDINGS	UNITS	NORMAL VALUES
HAEMOGLOBIN	13.9	gms/dl	[M:12-17, F:11-16]	BL SUGAR (R)	88	mg/dl	[80 - 130]
WBC COUNT	6600	/mm <sup>3</sup>	[4000 - 11000]	S. CHOLESTEROL	184	mg/dl	[150 - 250]
NEUTROPHILS	80	%	[40 - 75]	S. G.P.T.	35	u/l	[4 - 38]
LYMPHOCYTES	20	%	[20 - 40]	S. CREATININE	1.0	mg/dl	[0.7 - 1.5]
EOSINOPHILS	1	%	[01 - 06]	RBC Count	4.65	lacs/mm <sup>3</sup>	[4.0 - 6.5 lacs]
MONOCYTES	1	%	[02 - 07]	PLATELETS	168000	/cu mm	[1.5 - 4.5 lacs]
MCH	29.6	pg	[27 - 32]	BCA %	100.00	%	[= 72.5]
MCHC	29.8	%	[30 - 36]	RBC CHOLINESTERASE	894	u/ml	[775 - 990]
PCV	40.6	%	[39 - 54]	BLOOD GROUP:	B	RH:	NEGATIVE

**URINE EXAMINATION**

PHYSICAL:	CHEMICAL:	MICROSCOPIC:
QUANTITY: 10 ML	ALBUMIN: Absent	RBC: Absent
COLOR: PALE YELLOW	SUGAR: Absent	PCB CELL: Occasional
APPEARANCE: CLEAR	BILE SALT: Absent	CRYSTAL: Absent
DEPOSIT: Absent	BILE PTC: Absent	EPITHELIAL: Absent
	BILE GLUC: Absent	CAST: Absent

**LUNG FUNCTION TEST**

	RESULT	PREDICTED	NORMAL
FVC	3.64	4.07	89
FEV1	3.15	3.37	93
PEF	9.71	7.37	132
FEF 25-75%	3.72	3.54	100

**AUDIOMETRY TEST**

FREQ.	500	1K	2K	4K	6K	8K
RIGHT	30	35	70	75	60	50
LEFT	30	25	25	50	30	25

E.C.G.: WITHIN NORMAL LIMIT  
REMARKS: NOT SUFFERING FROM ANY INFECTIOUS OR OBNOXIOUS DISEASE  
Dr. Amit Shah  
Medical Health Consultant  
MBBS, AFPH

## Six Monthly EC Compliance Report



Compliance Report For Stipulated Conditions Of Environmental Clearance EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25 <sup>th</sup> November 2019		
Sr. No.	Conditions	Compliance Status
	(xxi) Continuous online (24×7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.	Unit shall follow the given condition.
	(xxii) Mitigation measures suggested during process safety and risk assessment studies shall be undertaken accordingly.	Unit shall follow the given condition.
11.1.	The grant of environmental clearance is subject to compliance of other general conditions, as under:-	
	I. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board, Central pollution Control Board, State Government and any other statutory authority.	Noted and agreed.
	II. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. 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.	Noted
	III. The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be decided in consultation with the State Pollution Board (SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Unit shall follow the given condition.
	IV. The National Ambient Air Quality Emission Standards issued by the ministry vide G.S.R.No.826 (E) Dated 16 <sup>th</sup> November, 2009 shall be followed.	Unit shall follow The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R.No. 826(E) Dated 16 <sup>th</sup> November,2009
	V. 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 under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA(night time).	Noise level measurement is carried out by GPCB recognized Schedule I Environment Auditor- Quarterly & by Third party recognized laboratory.
	VI. 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.	Unit shall follow the given condition.
	VII. 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.	Unit complies with the given condition. And same shall be continued after the proposed expansion.
	VIII. The company shall also comply with all the environmental protection measures and safeguards proposed in	Unit shall follow the given condition.

## Six Monthly EC Compliance Report

Compliance Report For Stipulated Conditions Of Environmental Clearance EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25 <sup>th</sup> November 2019		
Sr. No.	Conditions	Compliance Status
	the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	
IX.	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. ESC activities shall be undertaken by involving local villages and administration.	Unit shall follow the given condition.
X.	The company undertakes eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Unit shall follow the given condition.
XI.	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change 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.	Unit commits that funds earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
XII.	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	Complied.
XIII.	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&CC, the respective Zonal Office of CPCB and SPCB. A copy of environmental clearance and six monthly compliance status report shall be posted on the website of the company.	Unit is complying with the given condition.
XIV.	The environmental statement for each financial year ending 31 <sup>st</sup> march in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the environment (protection) Rules, 1986, as amended 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 respective Regional Offices of MoEF&CC by e-mail.	Unit is complying with the given condition. Form-V is regularly submitted to SPCB for each financial year. Copy of Form-V is attached as Annexure-5.
XV.	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 <a href="http://moef.nic.in">http://moef.nic.in</a> . 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.	Complied. EC advertisement in two local newspapers in the vernacular language of the locality concerned has been done. Newspaper cutouts of the same are attached below:

## Six Monthly EC Compliance Report

Compliance Report For Stipulated Conditions Of Environmental Clearance  
EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25<sup>th</sup> November 2019

Sr. No.	Conditions	Compliance Status
		
XVI.	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.	Noted.
12.	The ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.	Unit shall follow the given condition.
13.	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted.
14.	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.
15.	The above conditions will be enforced, inter alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted.
16.	This issue with approval of the competent authority.	Noted.

## Six Monthly EC Compliance Report

### Annexure 2 - Compliance report of CC&A/CTO & its Amendment

Sr. No.	Consent Condition Requirement					Compliance Status																
1	Consent order No.: AWH-87335 Date of Issue: 25/07/2017, CCA amendment dated AWH-104796 Date of Issue: 10/12/2019 and valid up to 16/04/2022.																					
2	The consent under Water Act-1974 for conveying the industrial effluent to the CETP of Ms/. NCTL for the treatment and disposal of treated effluent, the consent under Air Act-1981 & Authorization under Environmental (Protection) Act, 1986 shall be valid up to 16/04/2022 to operate industrial plant to manufacture following products:					Unit is complying with the given condition. Monthly production details are as mentioned below: <table><tr><th colspan="2">Production Details</th></tr><tr><th>Month</th><th>Quantity (MTM)</th></tr><tr><td>December 2020</td><td>88.81</td></tr><tr><td>January 2021</td><td>108.913</td></tr><tr><td>February 2021</td><td>100.276</td></tr><tr><td>March 2021</td><td>98.06</td></tr><tr><td>April 2021</td><td>75.759</td></tr><tr><td>May 2021</td><td>84.377</td></tr></table>	Production Details		Month	Quantity (MTM)	December 2020	88.81	January 2021	108.913	February 2021	100.276	March 2021	98.06	April 2021	75.759	May 2021	84.377
	Production Details																					
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May 2021	84.377																					
	SN	Name of Product	Quantity (MT/Annum)			Remarks																
			Existing	Proposed	Total (After Change in Product Mix)																	
1.		ORGANO PHOSPHATE: -ACEPHATE TECH. (I), DICHLORVOS (I), CHLORPYRIFOS (I), QUINALPHOS (I), TRIAZOPHOS (I), PHOSALONE (I), OMETHOATE (I), PROTHIOFOS (I), TEMEFOS (I), PROFENOFOS (I), ETHION (I), ETHWEPHON (PGR), GLYPHOSATE (H), etc.	Either individual or total production of this group shall not exceed 800 MT/Annum	(-) 800	--	To be discontinued																
2.		STROBILURIN: - AZOXYSTROBIN TECH. (F), DES-METHOXYAZOXY (DMA) (INT.) KRESOXIM METHYL (F), FLOUXASTROBIN (F), PYRACLOSTROBIN (F) etc.	Either individual or total production of this group shall not exceed 1200 MT/Annum	(-) 1200	--	To be discontinued																
3.		NEONICOTINOID/AMIDE: - IMI DACLOPRID TECH (I), THIACTOPRID (I), ACETAMIPRID (I), BEFLUBUTAMIDE TECH (H), FLUBENDAMIDE (I), CHLORANTRANILIPROLE (I), RYNEXAPYR (I), CYMOXANIL (F), THIFLUZAMIDE (F), CARBOXIN (F), CAPTAN (F), PRETILACHLOR (H), PROPYZAMIDE (H), PETHOXAMIDE (H), SNA(INT.):-(2-AMINOSULFONYL-N,N-	Either individual or total production of this group shall not exceed 225 MT/Annum	--	Either individual or total production of this group shall not exceed 225 MT/Annum	No change																

Production Details	
Month	Quantity (MTM)
December 2020	88.81
January 2021	108.913
February 2021	100.276
March 2021	98.06
April 2021	75.759
May 2021	84.377

## Six Monthly EC Compliance Report

Sr. No.	Consent Condition Requirement					Compliance Status
		DIMETHYLNICOTINAMIDE), MST(INT.)-(2-METHOXYCARBONYL)THIOPHENE-3-SULFONAMIDE), FLUFENACET (H), BOSCALID (F) etc.				
4.		KETONE: -DIMETHOMORPH TECH. (F), CLETHODIM (H), BUTROXYDIM (H), SPIROMESIFEN (I), MESOTRIONE (H), SULCOTRIONE (H), IBP (INT.)-(ISOBUTYROPHENONE), PYMETROZINE (I) etc.	Either individual or total production of this group shall not exceed 60 MT/Annum	--	Either individual or total production of this group shall not exceed 60 MT/Annum	No change
5.		ETHER: - PROPARGITE TECH. (I), OXYFLUORFEN (H), ETOXAZOLE (I), EEA (INT.)-(2-ETHOXY ETHYL AMINE), S-CYNO-MPB (INT.) etc.	Either individual or total production of this group shall not exceed 60 MT/Annum	--	Either individual or total production of this group shall not exceed 60 MT/Annum	No change
6.		ANILINE: - PENDIMETHALIN TECH. (H), METALAXYL (F), FAMOXADONE (F), TRIFLURALIN (H), FIPA-OH (INT.) etc.	Either individual or total production of this group shall not exceed 60 MT/Annum	(-60)	--	To be discontinued
7.		ESTER/PYRETHROID: - FENOXAPROP-P-ETHYL TECH. (H), BIFENAZATE (I), QUIZALOFOP-P-ET (H), CLODINAFOP-PPG (H), ACRINATHRIN (I), BIFENTHRIN (I), CYHALOTHRIN (I), GAMMA-CYHALOTHRIN (I), LAMDA-CYHALOTHRIN (I), CYPERMETHRIN (I), AND ITS ANALOGS, DELTA-METHRIN (I), ---CYFLUTHRIN (I) AND ITS ANALOGS, PERMETHRIN (I), BIOALLETHRIN (I), FENVALERATE (I), IMIPROTHRIN (I) etc.	Either individual or total production of this group shall not exceed 150 MT/Annum	--	Either individual or total production of this group shall not exceed 150 MT/Annum	No change



## Six Monthly EC Compliance Report

Sr. No.	Consent Condition Requirement						Compliance Status
	8.	CARBAMATE & THIO BASED PRODUCTS: - CARTAP.HCL TECH. (I), THIODICARB (I), THIOPHANATE-ME (F), PROPINEB (F), METIRAM (F), THIRAM (F), ISOPROTHIOLANE TECH (I), THIOCYCLAM (I), PROTHIOCARB (F), FLUTIANIL (F) etc.	Either individual or total production of this group shall not exceed 100 MT/Annum	--	Either individual or total production of this group shall not exceed 100 MT/Annum	No change	
	9.	QUATERNARY SALT AND OTHER SALTS, ACID BASED PRODUCTS: - MEPIQUAT CHLORIDE TECH. (I), CHLORMEQUAT CHLORIDE (I), OTHER SALTS: COPPER HYDROXIDE (BACTERICIDE,F), COPPER SULPHATE (ALGICIDE,F), etc., FLUPROPANATE-NA TECH (H) + HPAA (INT.)-(2-HYDROXYPHENYLACETIC ACID), BBA (INT.)-(BROMOBUTYRICACID), HPPA-INT.(2-(4-HYDROXYPHENOXY)PROPANATE), PICLORAM (H), DICAMBA (H), 2-CYANOPHENOL (INT.) etc.	Either individual or total production of this group shall not exceed 68 MT/Annum	--	Either individual or total production of this group shall not exceed 68 MT/Annum	No change	
	10.	TRIAZOLS: - 2,6 DICHLOROBENZOXAZOLE (INT.), ISOXAFLUTOLE (H), FLURASULAM (H), TDA (INT.) (TRIFLUOROMETHYLTHIADIAZOLE), FLUTRIAFOL TECH (F), PROTHICONAZOLE (F), SULFENTRAZONE (H), CARFENTRAZONE-ET (H) etc.	Either individual or total production of this group Sr. No. 11 & 12 shall not exceed 400 MT/Annum	--	Either individual or total production of this group Sr. No. 11 & 12 shall not exceed 400 MT/Annum	No change	
	11.	TRIAZOLS: - FIPRONIL TECH (I), PROPICONAZOLE (F), EPOXYCONAZOLE (F), TEBUCONAZOLE (F), DIFENOCONAZOLE (F), HEXACONAZOLE (F), TRICYCLAZOLE (F), MYCLOBUTANIL (F), FLUSILAZOLE (F), PACLOBUTRAZOLE (PGR), THIAMETHOXAM (I), CHLOROTHALONIL (F), TRIADIMEFON (F),				No change	

## Six Monthly EC Compliance Report

Sr. No.	Consent Condition Requirement					Compliance Status
	ISOXADIFEN-ET (SF)					
12.	HETROCYCLIC (PYRIMIDINE/PYRIDINE/TRIAZINE): - BISPYRIBAC-NA TECH. (H), PIRIMICARB (I), PYRITHIOBAC-NA (H), FLUMETSULAM (H), CYPRODINIL (F), FLORASULAM (H), PENOXSULAM (H), DCP (INT.)-(4,6-DICHLOROPYRIMIDINE), ACMP (INT.)-(2-AMINO-4-CHLORO-6-METHOXYPYRIMIDINE), IMAZETHAPYR TECH. (H), PYRIDALYL TECH (I), DIFLUFENICAN (H), CLOQUINTOCET-MEXYL(SF)	Either individual or total production of this group Sr. No. 13 & 14 shall not exceed 185 MT/Annum	--	Either individual or total production of this group Sr. No. 13 & 14 shall not exceed 185 MT/Annum	No change	
13.	HETROCYCLIC (PYRIMIDINE/PYRIDINE/TRIAZINE): - FLUAZINAM (F), FENPYROXIMATE TECH. (I), METRIBUZIN (H), AMITRAZ (I), CLOFENTEZINE (I), MMMT (INT.)-(2-METHOXY-4-METHYL-6-METHYLAMINO-1,3,5-TRIAZINE, METOXYFENOZIDE (I), FENCHLORIM (SF), 2-HYDROXY-3,5,6-TRYCHLOROPYRIDINE & ITS SODIUM SALT (INT. OF CHLORPYRIPHOS) etc.				Either individual or total production of this group Sr. No. 13 & 14 shall not exceed 185 MT/Annum	
14.	UREA/SULPHONYL UREA: - CHLORIMURON-ET TECH. (H), BUPROFEZIN TECH. (I), INDOXACARB (I), NOVALURON (I), LUFENURON (I), DIAFENTHIURON (I), AMICARBAZONE (H), FLUCARBAZONE (H), THIADIAZURON (PGR), HEXYTHIAZOX (I), LINURON (H), DIURON (H), TEFLUTHRIN (I), METSULFURON-METHYL (H)	Either individual or total production of this group Sr. No. 15 & 16 shall not exceed 225 MT/Annum	(-225)	Either individual or total production of this group Sr. No. 15 & 16 shall not exceed 225 MT/Annum	To be discontinued	
15.	UREA/SULPHONYL UREA: - THIFENSULFURON-METHYL (H), TRIBURON-					

## Six Monthly EC Compliance Report

Sr. No.	Consent Condition Requirement					Compliance Status
	METHYL (H), RIMSULFURON (H), IODOSULFURON (H), DIAMURON (H), CHLORSULFURON (H), PYRAZOLESULFURON (H), PYRAZOLESULFURON-ETHYL (H) etc.					
16.	Ryanxypyr	--	935	935	New Product	
17.	Isoxazolidinone sodium solution	--			New Product	
18.	4S Zeta Cypermethrin	--			New Product	
19.	F-2700 Zeta Cypermethrin	--			New Product	
20.	NATURAL GAS BASED CAPTIVE POWER PLANT	2.04		2.04 Mega Watt Hour	No change	
	Total	3533	(-)550	2983	--	
	<u>SPECIFIC CONDITIONS</u> Unit shall not manufacture any product which generated hazardous waste like ammonium sulphate / ammonium solution / sodium chloride / sodium sulphate / potassium chloride / potassium sulphate / acetic acid / sodium acetate etc. till unit make any MoU with end user who is having permission under rule 9 & authorization to receive this waste. Unit shall also submit MoU copies to Board.					Noted. Unit will ensure Rule-9 permission and MOU prior sending the mentioned waste.
a.	Total production shall not exceed 2983 MT/Month in any case.					Complied.
b.	There shall be no change in mode of disposal of waste water.					Complied.
c.	There shall be no change in fuel consumption, flue gas emission and process gas emission.					Complied.
d.	There shall be no change in Hazardous waste quantity/category.					Complied.
e.	Unit shall sell out their hazardous waste to authorized end-users who is having authorization with valid CCA and rule 9 permission to receive this waste. Unit shall make MoU with such authorized end-users and submit MoU at time of application of CCA.					The hazardous waste will be sold to authorized end-users having valid CCA and rule-9 permission. MOU will be prepared prior start of sell of hazardous waste.
f.	All the efforts shall be made to send hazardous waste to cement industry for co-processing first & there after it shall be disposed through other option.					Complied.
g.	Unit shall follow spent solvent management guideline framed by board and shall make MoU with outside distillation units, if any. Also submit the prescribed forms as per guideline.					Spent solvent management guidelines are followed.
h.	There shall not be increase in pollution load due to proposed change in product mix.					Complied.
i.	There shall not be any change in plant building, equipments & machineries to manufacture the proposed new products after change in product mix.					No changes in plant building, equipment's & machineries done for manufacturing the proposed new products after change in product mix.

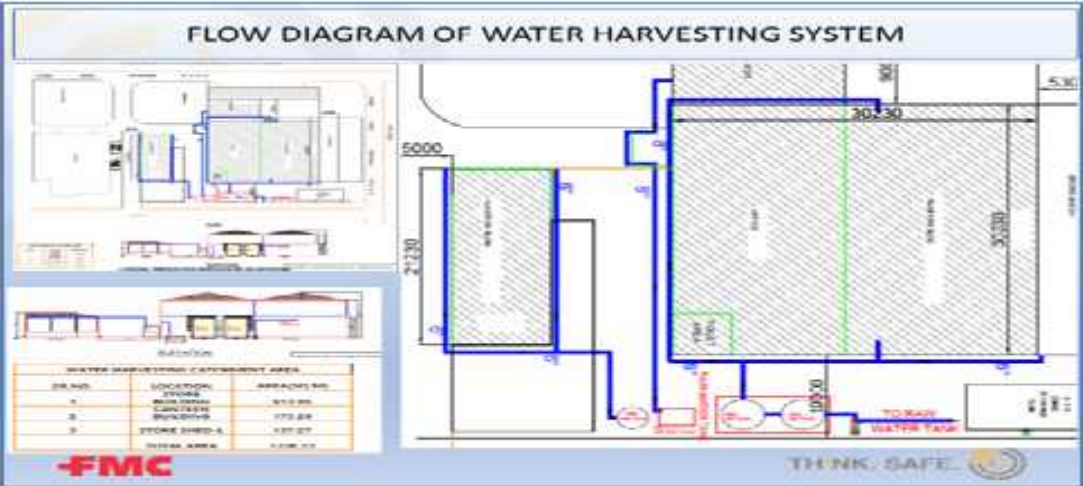
## Six Monthly EC Compliance Report

Sr. No.	Consent Condition Requirement	Compliance Status															
j.	In the case of submission of the false or misleading data, this CTE amendment will be forfeited immediately.	Noted.															
k.	Unit shall manufacture cypermethrin based product i.e. 4S Zeta Cypermethrin & f-2700 Zeta Cypermethrin from Cypermethrin with max. Production of 150 MTPA.	Noted.															
l.	When Cypermethrine (150 MTPA) and new product Deravitaves of Cypermethrin at 18 and 19 (150 MTPA) to be manufactured product other than Cypermethrin at group 7 (total 150 MTPA) cannot be manufactured.	Noted.															
m.	CCA is granted with a condition to comply guideline to be issued by Ministry of Environment, Forest and climate Change in the matter of O.A.No. 1038/2018 and Hon.NGT order dated: 10/07/2019 and 23/08/2019.	Noted.															
[A]	Additional Conditions Under Air Act::																
a)	Unit shall adhere to stringent air pollutants standards i.e. 80% of existing flue gas and process emission standards in the CPA. <table><tr><th colspan="3">Flue gas Emission Standards</th></tr><tr><th>Parameters</th><th>Existing</th><th>Revised norms (80% of Existing)</th></tr><tr><td>PM</td><td>150 mg/Nm<sup>3</sup></td><td>120 mg/Nm<sup>3</sup></td></tr><tr><td>SO<sub>2</sub></td><td>100 PPM</td><td>80 PPM</td></tr><tr><td>NOx</td><td>50 PPM</td><td>40 PPM</td></tr></table>	Flue gas Emission Standards			Parameters	Existing	Revised norms (80% of Existing)	PM	150 mg/Nm <sup>3</sup>	120 mg/Nm <sup>3</sup>	SO <sub>2</sub>	100 PPM	80 PPM	NOx	50 PPM	40 PPM	Complied. Unit is following the given condition.
Flue gas Emission Standards																	
Parameters	Existing	Revised norms (80% of Existing)															
PM	150 mg/Nm <sup>3</sup>	120 mg/Nm <sup>3</sup>															
SO <sub>2</sub>	100 PPM	80 PPM															
NOx	50 PPM	40 PPM															
b)	Following air pollution control measures shall be provided for the flue gas emission sources like Boiler, Thermic Fluid Heaters etc. (As Applicable) <table><tr><th colspan="2">Stipulated APCM in Red category industrial units of CPA</th></tr><tr><th>Steam generation capacity (in TPH)</th><th>Type of APCM</th></tr><tr><td>Less than 1</td><td>Multi Cyclone</td></tr><tr><td>1 to &lt;3</td><td>Multi Cyclone + Water Scrubber</td></tr><tr><td>3 to &lt;6</td><td>Bag filter + Water Scrubber</td></tr><tr><td>≥ 6</td><td>ESP + Water Scrubber</td></tr></table>	Stipulated APCM in Red category industrial units of CPA		Steam generation capacity (in TPH)	Type of APCM	Less than 1	Multi Cyclone	1 to <3	Multi Cyclone + Water Scrubber	3 to <6	Bag filter + Water Scrubber	≥ 6	ESP + Water Scrubber	Noted.			
Stipulated APCM in Red category industrial units of CPA																	
Steam generation capacity (in TPH)	Type of APCM																
Less than 1	Multi Cyclone																
1 to <3	Multi Cyclone + Water Scrubber																
3 to <6	Bag filter + Water Scrubber																
≥ 6	ESP + Water Scrubber																
c)	Unit shall provide at least two stage scrubbing system of appropriate media for the control of the process gas emission.	All the scrubbers are equipped with double stage scrubbing system with appropriate media.															
d)	Unit shall install and commission Continuous Emission Monitoring System- CEMS (as per CPCB guidelines for relevant parameters) which shall be connected with GPCB/ CPCB server (In case of large and medium red category industries)	Complied.															
e)	All common facilities shall install CEMS (as per CPCB guidelines for relevant parameters) which shall be connected with GPCB/ CPCB server to the Stacks provided with common Multiple Effect Evaporator (CMEE), Common Spray Dryer, Common incinerator etc.	Not Applicable.															
f)	The unit shall adhere to Sector specific guidelines/ SOP published by GPCB/ CPCB from time to time for effective fugitive emission control. (like guidelines for: Stone crushing units, Coal handling units, spent solvent handling and management, spent acid management, Decontamination of drums, containers etc.)	Noted. All the applicable SOP's published by GPCB/CPCB for effective fugitive emissions will be followed.															

## Six Monthly EC Compliance Report

Sr. No.	Consent Condition Requirement	Compliance Status
g)	Unit shall take adequate measure to control odour nuisance from the industrial activities which may include measures like-use of masking agent with atomizer system (water curtain), closed / automatic material handling system containment of the odour vulnerable areas etc.	Noted. Odor control measures are in place to control odor nuisance from specific activities.
h)	Unit shall not use Pet-coke, furnace oil, LSHS as a fuel.	Unit is using only natural gas and H.S.D.
i)	Unit shall adopt sectoral Best Available Technology-Bat (Like use of Induction Furnace, Electric Arc Furnace instead of Cupola furnace in foundry industry, Caustic Recovery system in Cotton Textile units etc.)	Not applicable.
j)	Unit shall provide green belt of 40% of the plot area, using concept of the social forestry and development of green belt outside project premises in adjacent areas.	The unit has developed 13450 sq. m. (~33.23%) of total plot area within plan premises. An Additional 7500 sq.m (18 %) area provided outside premises in GIDC which is in progress and total green belt area will be 51%.
k)	Unit shall provide wall to wall carpeting in vehicle movement areas within premises to avoid dusting.	Wall to wall carpeting in vehicle movement areas is made available to avoid dusting.
[B]	<u>Additional Conditions Under The Water Act.:</u>	
a)	Unit shall only used treated effluent for preparation of lime and other slurry in ETP. No fresh water shall be utilized in ETP.	Treated effluent is used for preparation of lime solution in ETP.
b)	In the case, if the Industry is not a member of CETP and domestic waste water generation is more than 10 KLPD, industry shall install STP of adequate capacity and treated sewage shall be reused/ recycled to the maximum extent.	Not applicable as the Industry is a member of CETP.
c)	In case of Large and Medium Red Category industry, the unit shall install system for continuous monitoring of effluent quality/ quantity as per CPCB guidelines for relevant parameters (like pH, Flow, Temperature, TOC/COD, NH3-N etc.) and shall be connected to GPCB server. In case, if the industry is a member of CETP, unit shall install flow meter.	Continuous monitoring of effluent quality and quantity is done as per the CPCB guidelines for relevant parameters.
d)	If the water consumption of the unit is more than 50 KLPD, Unit shall submit detailed water harvesting plan (off site).	The rain water harvesting work based on Roof rain

## Six Monthly EC Compliance Report

Sr. No.	Consent Condition Requirement	Compliance Status																		
e)	 <p><b>FLOW DIAGRAM OF WATER HARVESTING SYSTEM</b></p> <p>The diagram illustrates a water harvesting system for a building. It shows rainwater collection from the roof, storage in a tank, and distribution to various areas. A table lists the components and their locations:</p> <table border="1"> <thead> <tr> <th>SL. NO.</th> <th>LOCATION</th> <th>APPROX. CAPACITY</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>ROOF</td> <td>10000 LITERS</td> </tr> <tr> <td>2.</td> <td>STORAGE TANK</td> <td>10000 LITERS</td> </tr> <tr> <td>3.</td> <td>TOILET FLUSHING</td> <td>1000 LITERS</td> </tr> <tr> <td>4.</td> <td>TOILET FLUSHING</td> <td>1000 LITERS</td> </tr> <tr> <td>5.</td> <td>TOILET FLUSHING</td> <td>1000 LITERS</td> </tr> </tbody> </table> <p>FMC logo and 'THINK SAFE' slogan are also present.</p>	SL. NO.	LOCATION	APPROX. CAPACITY	1.	ROOF	10000 LITERS	2.	STORAGE TANK	10000 LITERS	3.	TOILET FLUSHING	1000 LITERS	4.	TOILET FLUSHING	1000 LITERS	5.	TOILET FLUSHING	1000 LITERS	<p>water harvest program inside premises under process and @ 1900 sq.m. roof of office building and Canteen building is selected for this project. Copy of the diagram of water harvesting system is attached.</p>
SL. NO.	LOCATION	APPROX. CAPACITY																		
1.	ROOF	10000 LITERS																		
2.	STORAGE TANK	10000 LITERS																		
3.	TOILET FLUSHING	1000 LITERS																		
4.	TOILET FLUSHING	1000 LITERS																		
5.	TOILET FLUSHING	1000 LITERS																		
f)	The unit shall explore Techno-Economic feasibility of Zero Liquid Discharge (ZLD) and if feasible, ZLD should be adopted.	Noted.																		
[C]	<u>Additional Conditions Under The Hazardous Wastes Management Rules:</u>																			
a)	Unit shall strictly carry out handling, storage and disposal of fly-ash, slag, red-mud, de-inking sludge etc. (High Volume- Low Effect Wastes) as per prevailing guidelines and its disposal at designated locations approved by the Board.	<p>Noted.</p> <p>Not applicable. In case of generation of such type of waste handling, storage and disposal will be done as per prevailing guidelines at designated locations.</p>																		
b)	Industry shall dispose its hazardous wastes through co-processing, pre-processing to the extent possible prior its disposal to incineration/ landfill as per provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.	Noted.																		
c)	Industry shall strictly comply with all the measures specified in guidelines for spent solvent management, spent acid management, and other guidelines/ directions published from time to time by GPCB and/ or CPCB, etc.	Complied.																		
d)	Unit shall carry out transportation of hazardous wastes through GPS mounted vehicles only.	All the transportation of hazardous wastes is done through GPS mounted vehicles only.																		
[D]	<u>Other General Conditions</u>																			
a)	Unit shall submit report of compliance of the conditions of EC every year to the Board prepared by third party.	Complied.																		
b)	Unit shall enhance CER fund allocation to at least 1.5 times the slabs given in the OM dated 01.05.2018 for SPA and 2 times for CPA in case of Environmental Clearance.	Noted.																		
	<u>OTHER CONDITIONS</u>	Complied.																		

## Six Monthly EC Compliance Report

Sr. No.	Consent Condition Requirement	Compliance Status																
	1. All the efforts shall be made to send hazardous waste to cement industry for Co-processing first & there after it shall be disposed through other options. 2. Unit shall follow spent solvent management guideline framed by the Board and shall make MoU with outside distillation units, if any. Also submit the prescribed forms as per guideline.																	
3	CONDITION UNDER THE WATER ACT:																	
	SPECIFIC CONDITION 1. Mother liquor 21.19 m <sup>3</sup> / day shall be incinerated to common incineration facility at BEIL or SEPPL or GSPL, Palsana and / or co-processing in cement industries.	Complied. Unit is following the given condition thoroughly.																
3.1	The condition No. 3.3 for water consumption under Water Act of the CCA order No. AWH-87335, issued vide letter no. GPCB/ANK/CCA-138(10)/ID-15015/419991, dated 10/08/2017 is amended shall now be read as under. a) Domestic : 50 KL/Day (Existing 50 KLD + Proposed Nil) b) Industrial : 260.20 KL/Day (Existing 265 KLD - Proposed 4.8 KLD) c) Total: 310.2 KL/Day (Existing 315 KLD - Proposed 4.8 KLD)	Complied. Water consumption is well within limits as per the condition. Water consumption details for period December 2020 to May 2021 is given below: <table><tr><th colspan="2">Details of Water Consumption</th></tr><tr><th>Month</th><th>KL/Month</th></tr><tr><td>December 2020</td><td>2830</td></tr><tr><td>January 2021</td><td>3047</td></tr><tr><td>February 2021</td><td>3375</td></tr><tr><td>March 2021</td><td>4288</td></tr><tr><td>April 2021</td><td>3780</td></tr><tr><td>May 2021</td><td>3330</td></tr></table>	Details of Water Consumption		Month	KL/Month	December 2020	2830	January 2021	3047	February 2021	3375	March 2021	4288	April 2021	3780	May 2021	3330
Details of Water Consumption																		
Month	KL/Month																	
December 2020	2830																	
January 2021	3047																	
February 2021	3375																	
March 2021	4288																	
April 2021	3780																	
May 2021	3330																	
3.2	The condition No. 3.1 & 3.2 for wastewater Generation under Water Act of the CCA order No. AWH-87335, issued vide letter no. GPCB/ANK/CCA-138(10)/ID-15015/419991, dated 10/08/2017 is amended shall now be read as under. a) Domestic : 33.2 KL/Day (Existing 33.2 KLD + Proposed Nil) b) Industrial : 71.2 KL/Day (Existing 85.91 KLD - Proposed 14.7 KLD) c) Total: 104.4 KL/Day (Existing 119.11 KLD - Proposed 14.7 KLD)	Complied. <table><tr><th colspan="2">Details of Wastewater Generation (KL/Month)</th></tr><tr><th>Month</th><th>(KL/Month)</th></tr><tr><td>December 2020</td><td>657</td></tr><tr><td>January 2021</td><td>413</td></tr><tr><td>February 2021</td><td>672</td></tr><tr><td>March 2021</td><td>469</td></tr><tr><td>April 2021</td><td>627</td></tr><tr><td>May 2021</td><td>613</td></tr></table>	Details of Wastewater Generation (KL/Month)		Month	(KL/Month)	December 2020	657	January 2021	413	February 2021	672	March 2021	469	April 2021	627	May 2021	613
Details of Wastewater Generation (KL/Month)																		
Month	(KL/Month)																	
December 2020	657																	
January 2021	413																	
February 2021	672																	
March 2021	469																	
April 2021	627																	
May 2021	613																	
3.3	71.2 KLD treated effluent shall be discharged to NCTL by underground drainage line and 33.2 KLD domestic sewage shall be disposed off through septic tank/soak pit system as per previous CCA conditions	Complied. Treated effluent is discharged to NCTL by underground drainage line as per previous CCA conditions.																

## Six Monthly EC Compliance Report

Sr. No.	Consent Condition Requirement			Compliance Status
3.3	Sewage shall be disposed off through septic tank/soak pit system or shall be treated separately in Sewage Treatment Plant (STP) to conform the following standards and treated sewage shall be utilized on land for irrigation/ plantation.			Complied.
	Sr. no.	Parameters	Permissible limit	
	1	Biochemical Oxygen Demand, BOD <sub>3</sub> , 27°C	Less than 20 mg/L	
	2	Total Suspended Solids	Less than 30 mg/L	
	3	Total Residual Chlorine	Minimum 0.5 ppm	
	Sewage shall be treated in ETP along with Industrial effluent and discharged into GIDC underground drainage system and conveyed to FETP (NCTL).			
3.4	The quality of industrial effluent shall conform to the standards (as per GPCB norms), whichever is applicable.			Complied. Photographs of waste water analysis reports of February 2021 is attached below:
	Sr no.	PARAMETERS	PERMISSIBLE LIMIT	
	1	pH	6.5 to 8.5	
	2	Temperature	40°C	
	3	Colour (pt.co.scale)	100 units	
	4	Total Suspended solids (TSS)	150 mg/l	
	5	Total Dissolved Solids	10000 mg/l	
	6	Biochemical Oxygen Demand, BOD <sub>3</sub> , 27°C	200 mg/l	
	7	Chemical Oxygen Demand (COD)	1000 mg/l	
	8	Oil and Grease	10 mg/l	
	9	Phenolic compounds	5 mg/l	
	10	Sulphide (as S)	5 mg/l	
	11	Ammonical Nitrogen (As N)	50 mg/l	
	12	Total Kjeldahl Nitrogen (as N)	50 mg/l	
	13	Phosphate (as P)	5 mg/l	
	14	Chlorides (as Cl)	1000 mg/l	
	15	Sulphates	1000 mg/l	
	16	Cyanide (as CN)	0.2 mg/l	
	17	Flouride (as F)	15mg/l	
	18	Hexavalent Chromium (as Cr +6)	0.1 mg/l	
	19	Total Chromium (as Cr)	2 mg/l	
	20	Copper (as Cu)	3 mg/l	
	21	Nickel (as Ni)	3 mg/l	
	22	Zinc (as Zn)	15 mg/l	
	23	Iron (as Fe)	3 mg/l	
24	Manganese (as Mn)	2 mg/l		



## Six Monthly EC Compliance Report

Sr. No.	Consent Condition Requirement			Compliance Status
	25	Mercury (as Hg)	0.01 mg/l	
	26	Lead (as Pb)	0.1 mg/l	
	27	Arsenic (as As)	0.2 mg/l	
	28	Venedium (as V)	0.2 mg/l	
	29	Cadmium (as Cd)	0.05 mg/l	
	30	Selenium (as Se)	0.05 mg/l	
	31	Bio-assay test	90 % survival of fish after 96 hrs in 100 % effluent	
	32	Insecticides/Pesticides	Absent	

# Six Monthly EC Compliance Report

Sr. No.

Consent Condition Requirement

Compliance Status

**Siddhi Green Excellence**  
PRIVATE LIMITED

REPORT NO.: SC/CILTD/WW/FEB/2021/02

TEST REPORT

Date of Issue: 15-02-2021

Issued to: M/s. CHEMINOVA INDIA LTD. (TECHNICAL DIV.)

Address: PLOT NO.241, GIDC ESTATE-PANOLI, TA: ANKLESHWAR, DIST: BHARUCH-394118

Sample details	Sample 1	Total No. of sample received	3
Type of sample	Treated Effluent	Date of Sampling	08-02-2021
Sample ID	17551-WW-01, M-3812-WW-01**	Date of Receipt	08-02-2021
Sample Qty. & Packing	2 L & Sealed, 20 L & Sealed**	Date of Analysis start	09-02-2021
Sampled by	Mr. Dilip	Date of Completion	13-02-2021

Sampling Location: ETP Outfall

Sampling Plan & Sampling Method Used: Lab document SC/LAB/01 (Issue No.: 01 Issue Date: 01-06-2018 Revision No.00)


SR.NO.	PARAMETERS	UNIT	TEST METHOD	PERMISSIBLE LIMITS(NOTE-2)	RESULTS Sample 1
1	pH	-	IS 3025(Part 1): 1982, RA2017	6.5 - 8.5	8.10 @ 25.0 °C
2	Temperature	°C	APHA 23 <sup>rd</sup> ed. 2550 B	40	27
3	Colour	ppm	APHA 23 <sup>rd</sup> ed. 2120B	100	30
4	Total Suspended Solids	mg/L	APHA 23 <sup>rd</sup> ed. 2540 D	150	70
5	Oil and Grease	mg/L	IS 3025(Part 2): 1981, Annex 5, RA 2018	10	BDL
6	Fluorides	mg/L	APHA 23 <sup>rd</sup> ed. 4500 F	15	1.02
7	Sulphides	mg/L	APHA 23 <sup>rd</sup> ed. 4500 S F	5	4.08
8	Ammonical Nitrogen	mg/L	APHA 23 <sup>rd</sup> ed. 4500 NH <sub>3</sub> C	50	BDL
9	Total Kjeldahl Nitrogen	mg/L	APHA 23 <sup>rd</sup> ed. 4500 N org B	50	12
10	Sulphate	mg/L	APHA 23 <sup>rd</sup> ed. 4500 S	1000	975
11	Phosphate	mg/L	APHA 23 <sup>rd</sup> ed. 4500 P-C	5	1.9
12	Chloride	mg/L	APHA 23 <sup>rd</sup> ed. 4500 Cl	1000	920
13	Total Dissolved Solids	mg/L	APHA 23 <sup>rd</sup> ed. 2540 G	10000	9679
14	Copper	mg/L	APHA 23 <sup>rd</sup> ed. 3111 B	3	BDL
15	Zinc	mg/L	APHA 23 <sup>rd</sup> ed. 3111 B	15	BDL
16	BOD (3 days at 27 °C)	mg/L	IS 3025(Part 4): 1980, RA2018	200	28
17	COD	mg/L	IS 3025(Part 5): 2000, RA2017	1000	94
18	Arsenic (as As)	mg/L	APHA 23 <sup>rd</sup> ed. 3114 B	0.2	BDL
19	Mercury (as Hg)	mg/L	APHA 23 <sup>rd</sup> ed. 3112	0.01	BDL
20	Lead (as Pb)	mg/L	APHA 23 <sup>rd</sup> ed. 3111 B	0.1	BDL
21	Cadmium	mg/L	APHA 23 <sup>rd</sup> ed. 3111 B	0.05	BDL
22	Hexavalent Chromium	mg/L	APHA 23 <sup>rd</sup> ed. 3000C-B	0.1	BDL
23	Total Chromium (as Cr)	mg/L	APHA 23 <sup>rd</sup> ed. 3111 B	2	0.2
24	Iron	mg/L	IS 3025 (Part 5): 2000, RA2018	3	BDL
25	Manganese	mg/L	APHA 23 <sup>rd</sup> ed. 3111 B	2	BDL
26	Nickel	mg/L	APHA 23 <sup>rd</sup> ed. 3111 B	3	BDL
27	Phenolic Compounds	mg/L	APHA 23 <sup>rd</sup> ed. 8230 D	5	BDL

Additions to, deviations, or exclusions from the method -None

Results from external providers, if any - None

Any other remarks :-\*\* Sampling for microbiological Analysis

Abbreviations used :- BDL - Below Detection Limit

Verified by:  Mrs. Fatima M. Jadhwa (Technical Manager) / Mrs. Kuntal P. Shah (Quality Manager) / Mr. Pankaj M. Shah (QA & QC) & MDL

Notes: 1. Test results shall be referred to the tested sample(s) only and applicable parameter(s) only.  
2. Permissible limits if mentioned in report are given by customer and included in the report upon request by customer.  
3. Certificate of accreditation are available on lab's website with period of validity. If non-accredited parameters are analyzed, 3200 results are given on last page.  
4. The opinions and interpretations if mentioned in report are given upon request by customer and based upon material and information supplied by customer.  
5. Representative samples will be disposed after testing, for other samples, retention time is 10 days from the date of issue of test report, unless otherwise specified by customer or by applicable regulations.  
6. Laboratory has a complaint redressal system. Discrepancies if any in the test report must be brought to notice within 7 days of issue of test report.  
7. This report shall not be used as evidence in the court of law and shall not be reproduced except in full, without prior written approval of Siddhi Green Excellence Pvt. Ltd.

\*\*\* End of Report \*\*\*

Formal No.: SC/LAB/01/Report-01 Issue No.: 02 Issue Date: 15-02-2021 Revision No.: 02 Revision Date: 30-06-2020 page 1 of 1

GUJARAT'S  
1<sup>ST</sup> PLATEFORM  
FOR GREEN  
ENTREPRENEURS  
BY ISO 9001

Regd. Office: "Kantil Arcade - The Vertical Benchmark" Comm. Plot No. C-303, GIDC Station Road, Ankleshwar - 390 002, Dist. Bharuch, Gujarat State, India. Tel.: 02648 - 2248005.

Dahej Off.: "SANSKAR AVENUE" Shop No. GF 37, P. G. Jyva, Ta. Vagra, Dist. Bharuch. Tel.: 02641 - 254041. E-mail: siddhi.ank@gmail.com

**Siddhi Green Excellence**  
PRIVATE LIMITED

TEST REPORT

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
SR.NO.	PARAMETERS	UNIT	TEST METHOD	PERMISSIBLE LIMITS(NOTE-2)	RESULTS Sample 1
1	Pesticides	-	APHA 23 <sup>rd</sup> ed. 9530	Absent	Absent
2	Vanadium	mg/L	APHA 23 <sup>rd</sup> ed.	0.2	BDL
3	Cyanide (as CN)	mg/L	APHA 23 <sup>rd</sup> ed. 4300 CN D	0.2	BDL
4	Selenium (as Se)	mg/L	APHA 23 <sup>rd</sup> ed. 3000 Se C	0.05	BDL
5	Bio-assay test	%	IS 6582(Part 2): 2001	90% survival of fish after 96 hrs in 100% effluent	Pass

Additions to, deviations, or exclusions from the method -None

Results from external providers, if any - None

Any other remarks :-\*\* Sampling for microbiological Analysis

Abbreviations used :- BDL - Below Detection Limit

Verified by:  Mrs. Fatima M. Jadhwa (Technical Manager) / Mrs. Kuntal P. Shah (Quality Manager) / Mr. Pankaj M. Shah (QA & QC) & MDL

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GUJARAT'S  
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FOR GREEN  
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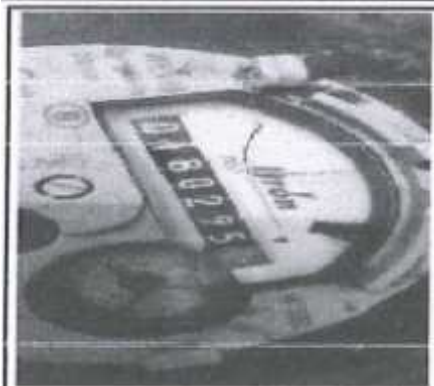
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## Six Monthly EC Compliance Report

Sr. No.	Consent Condition Requirement	Compliance Status
3.5	The effluent conforming to the above standards shall be discharged into G.I.D.C. undersigned drainage system and conveyed to FETP (NCTL) which ultimately leads to deep sea for final disposal through pipeline.	Complied. Unit is following the given condition.
3.6	Unit shall be required to make storage facilities to store the effluent for at least 72 hours by providing acid proof brick lined impervious tanks / HDPE tanks	Storage capacity of more than 72 hours is available. The material of construction of storage tanks is based on the characteristic of the effluent (HDPE/FRP/Acid brick lining/RCC/metallic).
3.7	In case of shut – down of plant for more than three (3) days for any reason, the NCTL unit member shall intimate to NCTL authority & GPCB well in advance for the better operation & management of CETP.	Noted
3.8	Unit shall make fixed arrangement for discharge of the effluent from their Final collection tanks to the underground drainage network of NCTL. Unit shall not keep any by-pass line or system or loose or flexible pipe line for discharge of the effluent into underground drainage network of NCTL.	Complied
3.9	Magnetic flow meters shall be installed at the inlet & outlet of effluent collection tanks / ETP to measure the quantity of effluent discharged into the underground drainage network of NCTL.	Complied. Unit has installed magnetic flow meter as per the given condition. Photographs of the flow meter attached below:
	 	
3.10	Unit shall affix of water meters as per Section 4 (1) of the water (Prevention and Control of Pollution) Cess Act-1977 for the purpose of measuring and recording the quantity of water consumed at such places as may be required, within 15 days and it shall be presumed that the quantity indicated by the meter has been consumed by the unit until the contrary is proved.	Complied. Photographs attached below:

## Six Monthly EC Compliance Report




Sr. No.	Consent Condition Requirement	Compliance Status
	 	
3.11	Unit shall provide adequate / safe effluent sampling facility for the effluent being stored in final collection / discharge tank of ETP or being discharged into CETP.	Complied. Unit is following the given condition.
3.12	Unit shall put up at the entrance a board displaying the name of unit, particulars of the products / process, the name of proprietor / partners / directors of the unit, NCTL membership number & date of joining of NCTL, the electricity consumer number as on the record of DGVCL.	Unit is following the given condition. Photograph of the display board is attached below:

## Six Monthly EC Compliance Report

Sr. No.	Consent Condition Requirement	Compliance Status
		
3.13	Unit shall have to display on – line data outside the main factory gate with regard to and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises.	Complied.
3.14	Unit shall either stop or curtail its production activities if the effluent is not adequately treated by the FETP of NCTL to conform to the standards specified by GPCB.	Noted and agreed.
3.15	The authorized representative of NCTL shall have right of entry at any time for the purpose of inspection and monitoring the effluent collection facilities / ETP (if required) of Unit.	Noted and agreed.
3.16	Unit shall have to keep accurate records of quality & quantity of effluent discharged to FETP on day-to-day basis. Separate logbook shall be maintained for recording the data & shall be made available for inspection as & when asked.	Complied. Separate logbook is maintained. Photograph of the same is attached below:



# Six Monthly EC Compliance Report

Sr. No.	Consent Condition Requirement	Compliance Status																																																																																																																																																																																																																										
	<div style="text-align: center;">  <p><b>NARMADA CLEAN TECH</b> (A Subsidiary of GIDC)</p> </div> <div style="text-align: right; margin-top: 10px;">           Contact Person: Mo.: Email ID:         </div> <p style="text-align: center;">Magnetic Flow meter Reading Report for the Month MAY-2021 (Final Discharge)</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;">           TO,   <b>CHEMINOVA INDIA LTD(TEC)</b>  <b>PLOT NO-2A1 ; GIDC ESTATE,</b>  <b>PANOLI -394116</b>  <b>P-I</b> </td> <td style="width: 50%; vertical-align: top;"> <table border="1" style="width: 100%;"> <tr><td>Meter Make</td><td></td></tr> <tr><td>Meter/Seal No</td><td></td></tr> <tr><td>Meter Size</td><td></td></tr> <tr><td>CCA Qty(KLD)</td><td></td></tr> <tr><td>Pump Serial No.</td><td></td></tr> <tr><td>DATE</td><td></td></tr> </table> </td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Date</th> <th>Opening Reading at 10.00 a.m</th> <th>Diff. 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Gujarat Gas Office, Umarwada Road, Ankleshwar - 393 001, Dist. Bharuch (Gujarat)</p> <p>Tel: 84697 46289, 97267 45635 Email : info@nctc.co.in, website : www.nctc.co.in • CIN : U40101GJ2000NPL037236</p> </div>	TO,  <b>CHEMINOVA INDIA LTD(TEC)</b> <b>PLOT NO-2A1 ; GIDC ESTATE,</b> <b>PANOLI -394116</b> <b>P-I</b>	<table border="1" style="width: 100%;"> <tr><td>Meter Make</td><td></td></tr> <tr><td>Meter/Seal No</td><td></td></tr> <tr><td>Meter Size</td><td></td></tr> <tr><td>CCA Qty(KLD)</td><td></td></tr> <tr><td>Pump Serial No.</td><td></td></tr> <tr><td>DATE</td><td></td></tr> </table>	Meter Make		Meter/Seal No		Meter Size		CCA Qty(KLD)		Pump Serial No.		DATE		Date	Opening Reading at 10.00 a.m	Diff. KL/Day	CO's Repre. Sign	NCT Repre. 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## Six Monthly EC Compliance Report



Sr. No.	Consent Condition Requirement	Compliance Status
3.17	Unit shall keep accurate records of quantity of production of each product, quantity of water consumption, quantity of effluent generated and consumption of electricity on day to day basis and required to submit the complied record of each month to GPCB on or before fifth day of the succeeding month.	Complied. Unit is e-filling Monthly Patrak on GPCB XGN Site every month.
3.18	In case of incinerators or MEE, the flow measuring devices for mother liquor / toxic effluent / Non-biodegradable effluent, light diesel oil, Furnace oil, etc. i.e. fuel used for combustion, air used for combustion shall be separately provided. Incinerator temperature recording devices as well as gaseous flow measuring devices for scrubber shall also be provided. These temperature & flow should be recorded every day & submitted to GPCB on monthly basis.	Incinerator is not in operation since C.Y. 2014. Details of MEE are submitted on monthly basis.
3.19	Disposal system for storm water shall be provided separately. In no circumstances storm water shall be mixed with the industrial effluent.	Complied. Unit has provided storm water drainage.
3.20	Leachate from the hazardous solid waste, if any shall also be connected into a collection tank through leachate collection facilities and shall be treated along with industrial effluent and final treated effluent shall be discharged to the CETP of NCTL.	Complied. Unit is following the given condition.
3.21	If the NCTL authority terminates the membership of CETP, the NCTL member unit shall have to close down the manufacturing activities / industrial operation of the process plant immediately until the NCTL membership is resumed.	Noted
3.22	The Environmental Management Unit / Cell shall be setup to ensure implementation on and monitoring of environment safeguards and other conditions stipulated by statutory authorities. The Environmental Management Cell / Unit shall directly report to the Chief Executive of the organization and shall work as a focal point for internalizing environmental issued. These Cells also coordinate the exercise of environmental audit and preparation of environmental statements.	Complied
3.23	The environmental audit shall be carryout yearly, if applicable. The environmental statements pertaining to the previous year shall be submitting to this State Board latest by 30 <sup>th</sup> September every year.	Environmental Statement is Attached as annexure 5.
3.24	Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is at least 1000 trees per acre of land and a green belt of 5 meters width is developed.	Complied. Photographs of the same is attached below:

## Six Monthly EC Compliance Report

Sr. No.	Consent Condition Requirement	Compliance Status
	<div data-bbox="266 284 864 740">  <p data-bbox="421 762 710 799">Near boiler house (GB-1)</p> </div> <div data-bbox="875 284 1473 740">  <p data-bbox="1016 762 1332 799">Near Admin building (GB-2)</p> </div> <div data-bbox="1485 284 2085 740">  <p data-bbox="1532 762 2038 799">In front of R&amp;D building near Entrance (GB-3)</p> </div> <div data-bbox="266 842 864 1299">  <p data-bbox="394 1315 736 1351">Behind Admin building (GB-5)</p> </div> <div data-bbox="875 842 1473 1299">  <p data-bbox="1066 1315 1283 1351">Along ETP (GB-6)</p> </div> <div data-bbox="1485 842 2085 1299">  <p data-bbox="1635 1315 1939 1351">Behind PESO farm (GB-7)</p> </div>	



## Six Monthly EC Compliance Report

Sr. No.	Consent Condition Requirement									Compliance Status
	<div style="display: flex; justify-content: space-around; align-items: center;">   </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <span>Behind R&amp;D building (GB-4)</span> <span>Opposite side of ETP (GB-6)</span> </div>									
3.25	In case of change of ownership / management the name and address of the new ownership / partners / directors / proprietor should immediately be intimate to the Board. Also any change in equipment or working conditions as mentioned in the consents form / order should immediately be intimated to this Board.									Noted
3.26	The Board reserves the right to review and/or revoke the consent and/or make modifications in the conditions which it seems fit in accordance with provisions of Water Act-1974.									Noted
4	CONDITIONS UNDER THE AIR ACT.									
4.1	Unit shall use fuel as specified in this consent and the flue gas emission through stack shall conform to the standards.									Complied.
	Sr. No.	Stack ID / Stack Attached to	Capacity / Remarks	Name of Fuel	Quantity of Fuel	Air Pollution Control Measures (APCM)	Stack Height (Mt)	Parameter	Perm. limit	unit
	1	41726-Boiler	WHRB-Captive Power Plant	Natural Gas	5500 Sm <sup>3</sup> /day	Not Applicable	30	PM SO <sub>2</sub> NO <sub>x</sub>	150 100 50	mg/Nm <sub>3</sub> ppm ppm

## Six Monthly EC Compliance Report

Sr. No.	Consent Condition Requirement										Compliance Status
	2	8820 - Boiler	Boiler capacity (10 TPH & 5 TPH)	Natural gas or Furnace oil	7000 Sm <sup>3</sup> /day or 4000 kg/day	Not Applicable	30	PM SO <sub>2</sub> NO <sub>x</sub>	150 100 50	mg/Nm <sup>3</sup> ppm ppm	
	3	8822 - D.G. Set	D.G. Set (cap. - 1250 KVA)	H.S.D	2160 l/day	Not Applicable	11	PM SO <sub>2</sub> NO <sub>x</sub>	150 100 50	mg/Nm <sup>3</sup> ppm ppm	
	4	8823 - Incinerator	Common vent of New and Old Incinerator with Two stage Caustic Scrubbing system	Natural Gas	3000 Sm <sup>3</sup> /day	Alkali Scrubber	45	Parameters as mentioned below			
	Treated flue gas emissions discharge through stack of Incinerator to atmosphere shall always be less than or equal to the following parameter specific emission standards.										
Parameters			Emission Standard		Sampling Duration						
Cd + Th + their compounds			0.05 mg/Nm <sup>3</sup>		Sampling time anywhere between 30 minutes and 8 hours						
CO			100 mg/Nm <sup>3</sup>		30 minutes						
CO			50 mg/Nm <sup>3</sup>		Standard refers to daily average value						
HCl			50 mg/Nm <sup>3</sup>		30 minutes						
HF			4 mg/Nm <sup>3</sup>		30 minutes						
Hg and Its compounds			0.05 mg/Nm <sup>3</sup>		Sampling time anywhere between 30 minutes and 8 hours						
NO <sub>x</sub> (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )			400 mg/Nm <sup>3</sup>		30 minutes						
Particulates			50 mg/Nm <sup>3</sup>		30 minutes						
Sb + As + Pb + Cr + Co + Cu + Mn + Ni + V + their compounds			0.5 mg/Nm <sup>3</sup>		Sampling time anywhere between 30 minutes and 8 hours						
SO <sub>2</sub>			200 mg/Nm <sup>3</sup>		30 minutes						
Total dioxins and furans			0.1 mg TEQ/ Nm <sup>3</sup>		6-8 hours sampling. Please refer guidelines for 17 concerned congeners for toxic equivalence values to arrive to total toxic equivalence.						
Total Organic Carbon			20 mg/Nm <sup>3</sup>		30 minutes						

## Six Monthly EC Compliance Report

Sr. No.	Consent Condition Requirement					Compliance Status	
	Note: All values of outlet parameters of incinerator shall be corrected to 11% oxygen in a dry basis.						
4.2	The process emission through various stacks / vent of reactors, process, vessel shall conform to the following standards:					Complied. Unit is following the given condition.	
	Sr. No.	Stack Attached to	Source	Air Pollution Control Measures (APCM)	Stack Height in Mt. (From G.L.)		Parameter & Permissible limits
	1	43940-Reaction Vessels	Reaction vessel of AZOXY Plant with caustic scrubbing system	Alkali Scrubber	25		HCl- 20 mg/Nm <sup>3</sup> Chlorine- 9 mg/Nm <sup>3</sup>
	2	43939-Reaction Vessels	Reaction vessel of ACP Plant with Ozone treatment followed by Hypo scrubber & Carbon bed	Scrubber	25		HCl- 20 mg/Nm <sup>3</sup> Chlorine- 9 mg/Nm <sup>3</sup>
4.3	The concentration of the following parameters in the ambient air within the premises of the unit shall not exceed the limits specified hereunder.					Complied.	
	Sr.no.	Parameters	Permissible limit (microgram/m3)				
			Annual	24 hours average			
	1	Particulate matter (PM <sub>10</sub> )	60	100			
	2	Particulate matter (PM <sub>2.5</sub> )	40	60			
	3	Oxides of Sulphur (SO <sub>x</sub> )	50	80			
	4	Oxides of Nitrogen(NO <sub>x</sub> )	40	80			
	a. Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.						
	b. 24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.						
	4.4	Unit shall operate industrial plant / air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the standards specified as above.					Complied
4.5	The consent to operate the industrial plant shall lapse if at any time the parameters of the gaseous emission are not within the tolerance limits specified as above.					Noted	
4.6	Unit shall provide portholes, ladder, platform etc. at chimney(s) for monitoring the air emissions and the same shall be open for inspection to / and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted / displayed to facilitate identification.					Complied	
4.7	Unit shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB(a) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6 a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.					Noted. Odor control measures are in place to control odor nuisance from specific activities.	
4.8	All efforts shall be made to control VOC emissions and odor problem, if any.					Complied	
5.	AUTHORISATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES:						

## Six Monthly EC Compliance Report

Sr. No.	Consent Condition Requirement						Compliance Status
5.1	Number of authorization: AWH-87335 date of issue 25/07/2017						Noted
5.2	M/s. Cheminova (India) Ltd. (Tech. Div) is granted an authorization to operate facility for following hazardous waste on the situated at PLOT No. : 241 GIDC ESTATE Panoli DIST: Bharuch						Complied. Disposal of hazardous waste is as per granted quantity by GPCB.
	SN	Name of hazardous waste	Sch h	Cat.	Qty MT / year	Facility	
	1.	Spent Solvents	I	20.2	500	Co-processing, Collection, Recycling, Incineration, Disposal, Reuse, Recovery, Storage, Transportation	
	2.	Spent Solvents	I	20.2	1200	Co-processing, Collection, Recycling, Incineration, Disposal, Reuse, Recovery, Storage, Transportation	
	3.	Process waste or residues	I	29.1	2311	Co-processing, Collection, Generation, Incineration, Disposal, Storage, Transportation	
	4.	Spent Acids	I	29.6	16524	Collection, Disposal, Storage, Transportation	
	5.	Empty barrels/ containers/ liners contaminated with hazardous chemicals / wastes	I	33.1	362.11	Collection, Decontamination, Generation, Disposal, Reuse, Storage, Transportation	
	6.	Chemical sludge from waste water treatment	I	35.3	305	Collection, Disposal, Storage, Transportation	Chemical sludge from waste water treatment includes ETP Sludge: Disposal at TSDF –BEIL / SEPPL

## Six Monthly EC Compliance Report

Sr. No.	Consent Condition Requirement							Compliance Status
	7.	Chemical sludge from waste water treatment	I	35.3	1525	Collection, Disposal, Storage, Transportation	Evaporation sludge (1525 MT / year) : Disposal at TSDF –BEIL / SEPPL	
	8.	Ash from incinerator and flue gas cleaning residue	I	37.2	720	Collection, Disposal, Storage, Transportation	Incinerator Ash: Disposal to Common TSDF facility BEIL/ SEPPL	
	9.	Used or Spent Oil	I	5.1	0.36	Collection, Disposal, Reuse, Storage, Transportation	Disposal by Reuse in plant & Machinery as lubricant or selling it to authorized refiners / recycler	
	10.	Salts of Per-Acids	II	B36	18864	Collection, Disposal, Storage, Transportation	Ammonium Sulphate / Ammonia Solution / Sodium Chloride / Sodium Sulfate / Potassium Chloride / Potassium Sulfate: Disposal by selling out to authorized users having rule 9 & authorization in valid CCA	
5.3	The authorization is granted to operate a facility as above.							Noted
5.4	The authorization shall be in force for a period up to 16/04/2022.							Noted
5.5	The authorization is subjected to the conditions stated below and such other conditions as may be specified in the rules from time to time under the environment (protection) act – 1986.							Noted
6	TERMS AND CONDITIONS OF AUTHORISATION :							
6.1	The authorized person shall comply with the provisions of the Environment (Protection) Act-1986, and the rules made there under.							Complied
6.2	The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Gujarat Pollution Control Board.							Complied
6.3	The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization.							Complied
6.4	Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.							Noted
6.5	The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.							Complied
6.6	The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty".							Noted
6.7	It is the duty of the authorized person to take prior permission of the Gujarat Pollution Control Board to close down the facility.							Noted

## Six Monthly EC Compliance Report

Sr. No.	Consent Condition Requirement	Compliance Status
6.8	The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean – up operation.	Hazardous and other wastes are not imported.
6.9	The record of consumption and fate of the imported hazardous and other wastes shall be maintained.	Noted
6.10	The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.	Noted
6.11	The importer or exporter shall bear the cost of import or export and mitigation of damages, if any.	Noted
6.12	An application for the renewal of an authorization shall be made as laid down under Hazardous & Other Wastes (Management and Transboundary Movement) Rules – 2016.	Noted
6.13	Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.	Noted
6.14	Annual return shall be filed by June 30 <sup>th</sup> for the period ensuring 31 <sup>st</sup> March of the year.	Complied
6.15	Unit shall have to display the relevant information with regard to hazardous waste as indicated in the Court's order in W. P. No. 657 of 1995 dated 14 <sup>th</sup> October 2003.	Complied

## Six Monthly EC Compliance Report

Annexure 3 -Copy of existing EC, NOC/CTE and CC&A/CTO

EC Copy



F. No. IA-J-11011/85/2018-IA-II(I)  
Government of India  
Ministry of Environment, Forest and Climate Change  
(IA-II Section)

**By Speed Post/Online**

Indira Paryavaran Bhawan  
Jorbagh Road, New Delhi - 3

Dated: 25<sup>th</sup> November, 2019

To

**M/s Cheminova India Limited**  
Plot Nos. 241, 242/2, 241/P  
GIDC Industrial Estate, Panoli  
District Bharuch (Gujarat)  
Email: [anil.shah@fmc.com](mailto:anil.shah@fmc.com)

**Sub: Expansion of agrochemicals and their intermediates from 3533 TPA to 15583 TPA at Plot Nos. 241, 242/2, 241/P, GIDC Industrial Estate, Panoli, Ankleshwar, District Bharuch (Gujarat) by M/s Cheminova India Limited (Technical Division) - Environmental Clearance - reg.**

Sir,

This has reference to your proposal No. IA/GJ/IND2/89462/1997 dated 20<sup>th</sup> May, 2019, submitting the EIA/EMP report on the above subject matter.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for expansion of agrochemicals and their intermediates from 3533 TPA to 15583 TPA by M/s Cheminova India Limited (Technical Division) in an area of 40476.94 sqm located at Plot Nos. 241, 242/2, 241/P, GIDC Industrial Estate, Panoli, Ankleshwar, District Bharuch (Gujarat).

3. The details of products are as under:-

S. No	Name of product*	Existing (TPA)	Proposed (TPA)	Total (TPA)
1.	Organo Phosphate: -Acephate Tech. (I), Dichlorvos (I), Chlorpyrifos (I), Quinalphos (I), Triazophos(I), Phosalone (I), Omethoate (I), Prothiofos (I), Temefos (I), Profenofos (I), Ethion (I), Ethwephon (Pgr), Glyphosate (H), etc	800 TPA	---	800 TPA
2.	Strobilurin: - Azoxystrobin Tech. (F), Des-Methoxyazoxy (DMA) (Int.) Kresoxim Methyl (F), Flouxastrobin (F), Pyraclostrobin (F).	1200 TPA	---	1200 TPA
3.	Neonicotinoid/Amide: - Imidacloprid Tech (I), Thiacloprid (I), Acetamiprid (I), Biflubenbutamide Tech (H), Flubendamide (I), Chlorantraniliprole (I), Rynexapyr (I), Cymoxanil (F), Thifluzamide (F), Carboxin (F), Captan (F), Pretilachlor	225 TPA	---	225 TPA

EC for M/s Cheminova India Limited (Technical Division)

Page 1 of 9

	(H), Propyzamide (H), Pethoxamide (H), SNA(Int.), (2-Aminosulfonyl-N,N-Dimethylnicotinamide), MST (Int.), (2-Methoxycarbonyl) Thiophene-3-Sulfonamide), Flufenacet (H), Boscalid (F) etc.			
4.	Ketone: -Dimethomorph Tech. (F), Clethodim (H), Butoxydim (H), Spiromesifen (I), Mesotrione (H), Sulcotrione (H), IBP (Int.), (Isobutyrophenone), Pymetrozine (I) etc.	60 TPA	---	60 TPA
5.	Ether: - Propargite Tech. (I), Oxyfluorfen (H), Etoazole (I), EEA (Int.)-(2-Ethoxy Ethyl Amine), S-Cyno-MPB (Int.) etc.	60 TPA	---	60 TPA
6.	Aniline: - Pendimethalin Tech. (H), Metalaxyl (F), Famoxadone (F), Trifluralin (H), FIPA-OH (Int.) etc.	60 TPA	---	60 TPA
7.	Ester/Pyrethroid: - Fenoxaprop-P-Ethyl Tech. (H), Bifenazate (I), Quizalofop-P-ET (H), Clodinafop-PPG (H), Acrinathrin (I), Bifenthrin (I), Cyhalothrin (I), Gamma-Cyhalothrin (I), Lamda- Cyhalothrin (I), Cypermethrin (I), and its analogs, Delta-Methrin (I), -Cyfluthrin (I) and its analogs, Permethrin (I), Bioallethrin (I), Fenvalerate (I), Imiprothrin (I) etc.	150 TPA	---	150 TPA
8.	Carbamate & thio based products: - Cartap.HCL Tech. (I), Thiodicarb (I), Thiophanate-ME (F), Propineb (F), Metiram (F), Thiram (F), Isoprothiolane Tech (I), Thiocyclam (I), Prothiocarb (F), Flutianil (F) etc.	100 TPA	---	100 TPA
9.	Quaternary salt and other salts, Acid based products: - Mepiquat Chloride Tech. (I), Chlomequat Chloride (I), other salts: Copper Hydroxide (Bactericide,F), Copper Sulphate (Algicide,F), etc., Flupropanate-NA Tech (H) + HPAA (INT.)-(2-Hydroxyphenylacetic Acid), BBA (INT.)-(Bromobutyricacid), HPPA-Int.(2-(4-Hydroxyphenoxy)Propanate), Picloram (H), Dicamba (H), 2-Cyanophenol (Int.) etc.	68 TPA	---	68 TPA
10.	Triazols: - 2,6 Dichlorobenzoxazole (INT.), Isoxaflutole (H), Flurasulam (H), TDA (INT.) (Trifluoromethylthiadiazole), Flutriafol TECH (F), Prothiconazole (F), Sulfentrazone (H), Carfentrazone-ET (H) etc.	400 TPA	---	400 TPA



# Six Monthly EC Compliance Report

11.	Triazols: - Fipronil Tech (I), Propiconazole (F), Epoxyconazole (F), Tebuconazole (F), Difenconazole (F), Hexaconazole (F), Tricyclazole (F), Myclobutanil (F), Flusilazole (F), Paclobutrazole (PGR), Thiamethoxam (I), Chlorothalonil (F), Triadimefon (F), Isoxadifen-ET (SF)		---	
12.	Hetrocyclic (Pyrimidine/Pyridine/Triazine): - Bispyribac-NA Tech. (H), Pirimicarb (I), Pyriothiac-NA (H), Flumetsulam (H), Cyprodinil (F), Florasulam (H), Penoxsulam (H), DCP (INT.)-(4,6-Dichloropyrimidine), ACMP (INT.)-(2-Amino-4-Chloro-6-Methoxypyrimidine), Imazethapyr Tech. (H), Pyridalyl Tech (I), Diflufenican (H), Cloquintocet-Mexyl(SF)	185 TPA	---	185 TPA
13.	Hetrocyclic (Pyrimidine/Pyridine/Triazine): - Fluazinam (F), Fenpyroximate Tech. (I), Metribuzin (H), Amitraz (I), Clofentezine (I), MMT (Int.)-(2-Methoxy-4-Methyl-6-Methylamino-1,3,5-Triazine, Metoxyfenozide (I), Fenchlorim (SF), 2-Hydroxy-3,5,6-trichloropyridine & its Sodium salt (Int. of Chlorpyriphos) etc.		---	
14.	Urea/Sulphonyl Urea: - Chlorimuron-ET Tech. (H), Buprofezin Tech. (I), Indoxacarb (I), Novaluron (I), Lufenuron (I), Diafenthiuron (I), Amicarbazone (H), Flucarbazone (H), Thiadiazuron (PGR), Hexythiazox (I), Linuron (H), Diuron (H), Tefluthrin (I), Metsulfuron-Methyl (H)	225 TPA	---	225 TPA
15.	Urea/Sulphonyl Urea: - Thifensulfuron-Methyl (H), Triburon-Methyl (H), Rimsulfuron (H), Iodosulfuron (H), Diamuron (H), Chlorsulfuron (H), Pyrazolesulfuron (H), Pyrazolesulfuron-Ethyl (H) etc.		---	
16.	4s Zeta Cypermethrin	---	200	200
17.	F-2700 Zeta Cypermethrin	---	1000	1000
18.	Ryanxypyr	---	3000	3000
19.	Cyazypyr	---	1000	1000
20.	DBC80 / (3-Bromo-1-(3-Chloro-2-Pyridinyl)-1H-Pyrazole-5-Carboxylic Acid)	---	1950	1950
21.	Indanamine	---	800	800
22.	FMC-57091 / Isoxazolidinone	---	2600	2600

EC for M/s Cheminova India Limited (Technical Division)

Page 3 of 9

23.	Sulfentrazone 2,4-Dichloro / 2,4-Dichlorophenyl-4-(Difloromethyl)Triazolone	---	1500	1500
<b>Total</b>		<b>3533</b>	<b>12050</b>	<b>15583</b>
*Banned pesticides shall not be produced. Production of either individual or more products in the group shall not exceed the stipulated total production capacity of the group.				
1	Captive Power Plant (Natural Gas)	2.04 MW/Hr	---	2.04 MW/Hr

4. Existing land area is 40476.94 sqm. No additional land will be required for the proposed expansion. Industry will enhance existing greenbelt in an area of 13450 sqm covering 33 % of total project area. The estimated project cost for expansion is Rs. 365.92 crores. Total capital cost earmarked towards environmental pollution control measures is Rs 17.15 crores and the recurring cost (O&M) will be about Rs 68.15 crores per annum. Total employment will be for 200 persons directly and 500 persons indirectly after expansion.

5. There are no National parks, Wildlife sanctuaries, Biosphere, Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km from the project site. Ukai canal is flowing at a distance of 0.28 km in west direction.

6. Total water requirement is estimated to be 898 cum/day, which includes fresh water requirement of 261cum/day, proposed to be met from GIDC supply.

Industrial Effluent of 670 cum/day will be treated through Effluent Treatment Plant having Primary, Secondary & Tertiary Treatments, MEE and RO & shall be recycled back to process. Domestic effluent will be treated through STP after expansion. There will be no discharge of treated/untreated waste water from the unit, and thus ensuring Zero Liquid Discharge.


Power requirement after expansion will be 3500 KVA including existing 2200 KVA and will be met from M/s Dakshin Gujarat Vij Company Limited (DGVCL). Existing unit has one DG set of 1250 KVA capacity, additionally 1 no. DG set of 1500 KVA will be used as standby during power failure for proposed expansion.

Existing unit has natural gas based WHRB- Captive power plant, 2 nos. of natural gas based boilers of 10 TPH and 5 TPH capacity and one natural gas based thermic fluid heater of 10 lakh Kcal/h will be installed additionally in the proposed expansion. Water scrubbers and alkali scrubbers shall be installed for controlling emissions.

7. The project/activities are covered under category A of item 5(b) 'Pesticides industry and Pesticide specific intermediates' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry.

8. Standard terms of reference (ToR) for the project was granted on 8<sup>th</sup> April, 2018. Public hearing is exempted in accordance with the Ministry's OM dated 27<sup>th</sup> April 2018, as the project site is located in the notified industrial area.

9. The proposal for environmental clearance was considered by the EAC (Industry-2) in its meetings held on 26-28 June, 2019 and 28-29 August, 2019 in the Ministry, wherein the project proponent and their accredited consultant M/s Siddhi Green Excellence Pvt Ltd presented the EIA/EMP report. The Committee found the EIA/EMP report complying with the terms and conditions of the ToR, and recommended the proposal for environmental clearance to the project with certain conditions.

 EC for M/s Cheminova India Limited (Technical Division)

Page 4 of 9

10. The proposal was further examined in the Ministry in accordance with the Ministry's Office Memorandum No. 22-23/2018-IA.III (pt) dated 31<sup>st</sup> October 2019 and Ministry's communication No. Q-16017/38/2018-CPA dated 24<sup>th</sup> October 2019 regarding compliance of Hon'ble NGT order dated 19.8.2019 (published on 23.8.2019) in OA No. 1038/2018.

11. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for **Expansion of agrochemicals and their intermediates from 3533 TPA to 15583 TPA by M/s Cheminova India Limited (Technical Division) at Plot Nos. 241, 242/2, 241/P, GIDC Industrial Estate, Panoli, Ankleshwar, District Bharuch (Gujarat)**, under the provisions of the EIA Notification, 2006, read with subsequent amendments therein, subject to compliance of the terms and conditions as environmental safeguards, as under:-

- (i) Consent to Establish/Operate (CTE/CTO) for the project shall be obtained from the State Pollution Control Board (SPCB) as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974, and the SPCB shall follow the mechanism/protocol issued by the Ministry vide letter no. Q-16017/38/2018-CPA dated 24<sup>th</sup> October, 2019 and forwarded by Central Pollution Control Board vide letter dated 25<sup>th</sup> October, 2019 to the SPCB's, while issuing the CTE/CTO for the project, for improvement of environmental quality in the area.
- (ii) Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, shall be obtained from the State Pollution Control Board.
- (iii) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.
- (iv) As proposed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged to any surface water body, sea and/or on land.
- (v) National Emission Standards for Pesticides Manufacturing Industry issued by the Ministry vide G.S.R.446(E) dated 13<sup>th</sup> June, 2011, as amended from time to time, shall be followed.
- (vi) No pesticides/chemicals banned by the Ministry of Agriculture and Farmers Welfare, or having LD<sub>50</sub><100 mg/kg shall be produced. Also, no raw material/solvent prohibited by the concerned regulatory authorities from time to time, shall be used for production of pesticides.
- (vii) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
- (viii) Solvent management shall be carried out as follows:
  - (a) Reactor shall be connected to chilled brine condenser system.
  - (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.

  
EC for M/s Cheminova India Limited (Technical Division)

Page 5 of 9

- (c) The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery.
- (d) Solvents shall be stored in a separate space specified with all safety measures.
- (e) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.
- (f) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.
- (g) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (ix) Total fresh water requirement shall not exceed 261 cum/day to be met from GIDC water supply. Prior permission in this regard shall be obtained from the concerned regulatory authority.
- (x) Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system
- (xi) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.
- (xii) Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
- (xiii) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act, 1989.
- (xiv) The company shall undertake waste minimization measures as below:-
  - (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.
- (xv) The green belt of at least 5-10 m width shall be developed in nearly 40% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. In addition, the project proponent shall develop greenbelt outside the plant premises also such as avenue plantation, plantation in vacant areas, social forestry etc.
- (xvi) As committed, Fund allocation for the Corporate Environment Responsibility (CER) shall be 5 % of the total project cost. Item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.
- (xvii) Safety and visual reality training shall be provided to employees.
- (xviii) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.



EC for M/s Cheminova India Limited (Technical Division)

Page 6 of 9

- (xix) 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.
- (xx) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- (xxi) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (xxii) Mitigation measures suggested during process safety and risk assessment studies shall be undertaken accordingly.

**11.1.** The grant of environmental clearance is subject to compliance of other general conditions, as under:-

- (i) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board, Central Pollution Control Board, State Government and any other statutory authority.
- (ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. 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.
- (iii) The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- (iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16<sup>th</sup> November, 2009 shall be followed.
- (v) 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 under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (vi) 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.
- (vii) 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.
- (viii) The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the



EC for M/s Cheminova India Limited (Technical Division)

Page 7 of 9



recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.

- (ix) The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. ESC activities shall be undertaken by involving local villages and administration.
- (x) The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- (xi) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change 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.
- (xii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (xiii) 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&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- (xiv) The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended 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 respective Regional Offices of MoEF&CC by e-mail.
- (xv) 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://moef.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.
- (xvi) 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.

**12.** The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.



*EC for M/s Cheminova India Limited (Technical Division)*

Page 8 of 9

13. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

14. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

15. The above conditions will be enforced, *inter alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

16. This issues with approval of the competent authority.

  
(Dr. R. B. Lal)  
Scientist E

**Copy to: -**

1. The Deputy DGF (C), MoEF&CC Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal - 462016
2. The Secretary, Forests and Environment Department, Government of Gujarat, Block 14, 8th Floor, Sachivalaya, Gandhinagar (Gujarat) -10
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10A, Gandhinagar (Gujarat) - 10
5. The District Collector, District Bharuch (Gujarat)
6. Guard File/Monitoring File/Website/Record File

  
(Dr. R. B. Lal)  
Scientist E

## Six Monthly EC Compliance Report

CC&A Amendment Copy



### GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN  
Sector-10-A, Gandhinagar 382 010  
Phone : (079) 23222425  
(079) 23232152  
Fax : (079) 23232156  
Website : www.gpcb.gov.in

By R.P.A.D.

#### CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A - Amendment)

**CCA AMENDMENT NO: AWH - 104796**

**NO: GPCB/ANK/CCA-138(15)/ID-15015/**

**DT: 10/12/2019**

To  
✓ **M/S. CHEMINOVA (INDIA) LTD. (TECH DIV.),**  
**PLOT NO:241,**  
**GIDC ESTATE PANOLI,**  
**DIST-BHARUCH.**

**SUB:** Amendment in Consolidated Consent & Authorization (CC&A) under various Environmental Acts/ Rules.

**REF:** (1) Your application No. 163740 dated **19/09/2019**.  
(2) CCA No. AWH - 87335 dated :10/08/2017.  
(3) CTE Amendment No. 99440 dated:04/04/2019 (For change in Product Mix)

Sir,

This has reference to the CCA order No: **AWH-87335, issued vide letter no. GPCB/ ANK/ CCA-138(10)/ ID-15015/419991, dated 10/08/2017** under the provisions of the various Environmental Act/ Rules, which stands amended as under. The Validity of this order will be up to **16/04/2022**.

#### 1. The list of proposed products to be manufactured shall be as follows:

Sr. No.	Products	Quantity (MT/Annum)			Remarks
		Existing	Proposed	Total (After Change in Product Mix)	
1.	ORGANO PHOSPHATE: - ACEPHATE TECH. (I), DICHLORVOS (I), CHLORPYRIFOS (I), QUINALPHOS (I), TRIAZOPHOS(I), PHOSALONE (I), OMETHOATE (I), PROTHIOFOS (I), TEMEFOS (I), PROFENOFOS (I), ETHION (I), ETHWEPHON (PGR), GLYPHOSATE (II), etc.	Either individual or total production of this group shall not exceed 800 MT/Annum	(-)800	---	To be discontinued

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Page 1 of 10



## Six Monthly EC Compliance Report

2.	STROBILURIN: - AZOXYSTROBIN TECH. (F), DES- METHOXYAZOXY (DMA) (INT.) KRESOXIM METHYL (F), FLOUXASTROBIN (F), PYRACLOSTROBIN (F) etc.	Either individual or total production of this group shall not exceed 1200 MT/Annum	(-)1200	---	To be discontin ued
3.	NEONICOTINOID/AM IDE: - IMI DACLOPRID TECH (I), THIACLOPRID (I), ACETAMIPRID (I), BEFLUBUTAMIDE TECH (H), FLUBENDAMIDE (I), CHLORANTRANILIPR OLE (I), RYNEXAPYR (I), CYMOXANIL (F), THIFLUZAMIDE (F), CARBOXIN (F), CAPTAN (F), PRETILACHLOR (H), PROPYZAMIDE (H), PETHOXAMIDE (H), SNA(INT.)-(2- AMINOSULFONYL- N,N- DIMETHYLNICOTINA MIDE), MST(INT.)-(2- METHOXYCARBONYL )THIOPHENE-3- SULFONAMIDE), FLUFENACET (H), BOSCALID (F) etc.	Either individual or total production of this group shall not exceed 225 MT/Annum	---	Either individual or total production of this group shall not exceed 225 MT/Annum	No Change
4.	KETONE: - DIMETHOMORPH TECH. (F), CLETHODIM (H), BUTROXYDIM (H), SPIROMESIFEN (I), MESOTRIONE (H), SULCOTRIONE (H), IBP (INT.)-(2- ISOBUTYROPHENON	Either individual or total production of this group shall not exceed 60 MT/Annum	---	Either individual or total production of this group shall not exceed 60 MT/Annum	No Change

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	E), PYMETROZINE (I) etc.				
5.	ETHER: - PROPARGITE TECH. (I), OXYFLUORFEN (H), ETOXAZOLE (I), EEA (INT.)-(2- ETHOXY ETHYL AMINE), S-CYNO- MPB (INT.) etc.	Either individual or total production of this group shall not exceed 60 MT/Annum	---	Either individual or total production of this group shall not exceed 60 MT/Annum	No Change
6.	ANILINE: - PENDIMETHALIN TECH. (H), METALAXYL (F), FAMOXADONE(F), TRIFLURALIN (H), FIPA-OH (INT.) etc.	Either individual or total production of this group shall not exceed 60 MT/Annum	(-)60	---	To be discontin ued
7.	ESTER/PYRETHROID :- FENOXAPROP-P- ETHYL TECH. (H), BIFENAZATE (I), QUIZALOFOP-P-ET (H), CLODINAFOP- PPG (H), ACRINATHRIN (I), BIFENTHRIN (I), CYHALOTHRIN (I), GAMMA- CYHALOTHRIN (I), LAMDA- CYHALOTHRIN (I), CYPERMETHRIN (I), AND ITS ANALOGS, DELTA-METHRIN (I), CYFLUTHRIN (I) AND ITS ANALOGS, PERMETHRIN (I), BIOALLETHRIN (I), FENVALERATE (I), IMIPROTHRIN (I) etc.	Either individual or total production of this group shall not exceed 150 MT/Annum	---	Either individual or total production of this group shall not exceed 150 MT/Annum	No Change
8.	CARBAMATE & THIO BASED PRODUCTS: - CARTAP.HCL TECH. (I), THIODICARB (I),	Either individual or total production	---	Either individual or total production	No Change

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Page 3 of 10

	THIOPHANATE-ME (F), PROPINEB (F), METIRAM (F), THIRAM (F), ISOPROTHIOLANE TECH (I), THIOCYCLAM (I), PROTHIOCARB (F), FLUTIANIL (F) etc.	of this group shall not exceed 100 MT/Annum		of this group shall not exceed 100 MT/Annum	
9.	QUATERNARY SALT AND OTHER SALTS, ACID BASED PRODUCTS: - MEPIQUAT CHLORIDE TECH. (I), CHLORMEQUAT CHLORIDE (I), OTHER SALTS: COPPER HYDROXIDE (BACTERICIDE,F), COPPER SULPHATE (ALGICIDE,F), etc., FLUPROPANATE-NA TECH (H) + HPAA (INT.)-(2-HYDROXYPHENYLACETIC ACID), BBA (INT.)-(BROMOBUTYRICACID), HPPA-INT.(2-(4-HYDROXYPHENOXY)PROPANATE), PICLORAM (H), DICAMBA (H), 2-CYANOPHENOL (INT.) etc.	Either individual or total production of this group shall not exceed 68 MT/Annum	---	Either individual or total production of this group shall not exceed 68 MT/Annum	No Change
10.	TRIAZOLS: - 2,6 DICHLOROBENZOXAZOLE (INT.), ISOXAFLUTOLE (H), FLURASULAM (H), TDA (INT.) (TRIFLUOROMETHYLTHIADIAZOLE), FLUTRIAFOL TECH (F), PROTHICONAZOLE	Either individual or total production of this group	---	Either individual or total production of this	No Change

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	(F), SULFENTRAZONE (H), CARFENTRAZONE-ET (H) etc.	Sr. No. 11 & 12 shall not exceed 400 MT/Annum		group Sr. No. 11 & 12 shall not exceed 400 MT/Annum	
11.	TRIAZOLS: - FIPRONIL TECH (I), PROPICONAZOLE (F), EPOXYCONAZOLE (F), TEBUCONAZOLE (F), DIFENOCONAZOLE (F), HEXACONAZOLE (F), TRICYCLAZOLE (F), MYCLOBUTANIL (F), FLUSILAZOLE (F), PACLOBUTRAZOLE (PGR), THIAMETHOXAM (I), CHLOROTHALONIL (F), TRIADIMEFON (F), ISOXADIFEN-ET (SF)				No Change
12.	HETROCYCLIC (PYRIMIDINE/PYRIDINE/TRIAZINE): - BISPYRIBAC-NA TECH. (H), PRIMICARB (I), PYRITHIOBAC-NA (H), FLUMETSULAM (H), CYPRODINIL (F), FLORASULAM (H), PENOX SULAM (H), DCP (INT.)-(4,6- DICHLOROPYRIMIDINE), ACMP (INT.)-(2-AMINO-4-CHLORO-6-METHOXYPYRIMIDINE), IMAZETHAPYR TECH. (H), PYRIDALYL TECH (I), DIFLUFENICAN (H), CLOQUINTOCET-MEXYL(SF)	Either individual or total production of this group Sr. No. 13 & 14 shall not exceed 185 MT/Annum	---	Either individual or total production of this group Sr. No. 13 & 14 shall not exceed 185 MT/Annum	No Change

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Page 5 of 10

13.	HETEROCYCLIC (PYRIMIDINE/PYRIDINE/TRIAZINE): - FLUAZINAM (F), FENPYROXIMATE TECH. (I), METRIBUZIN (H), AMITRAZ (I), CLOFENTEZINE (I), MMT (INT.)-(2-METHOXY-4-METHYL-6-METHYLAMINO-1,3,5-TRIAZINE, METOXYFENOZIDE (I), FENCHLORIM (SF), 2-HYDROXY-3,5,6-TRYCHLOROPYRIDINE & ITS SODIUM SALT (INT. OF CHLORPYRIPHOS) etc.				No Change
14.	UREA/SULPHONYL UREA: - CHLORIMURON-ET TECH. (H), BUPROFEZIN TECH. (I), INDOXACARB (I), NOVALURON (I), LUFENURON (I), DIAFENTHIURON (I), AMICARBAZONE (H), FLUCARBAZONE (H), THIADIAZURON (PGR), HEXYTHIAZOX (I), LINURON (H), DIURON (H), TEFLUTHRIN (I), METSULFURON-METHYL (H)	Either individual or total production of this group Sr. No. 15 & 16 shall not exceed 225 MT/Annum	(-)225	---	To be discontinued
15.	UREA/SULPHONYL UREA: - THIFENSULFURON-METHYL (H), TRIBURON-METHYL (H), RIMSULFURON				

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	(H), IODOSULFURON (H), DIAMURON (H), CHLORSULFURON (H), PYRAZOLESULFURO N(H), PYRAZOLESULFURO N-ETHYL (H) etc.				
16.	Ryanxypyr	---	935	935	New Product
17.	Isoxazolidinone sodium solution	---	650	650	New Product
18.	4S Zeta Cypermethrin	---	150	150	New Product
19.	F-2700 Zeta Cypermethrin				
20.	NATURAL GAS BASED CAPTIVE POWER PLANT	2.04 Mega Watt Hour	---	2.04 Mega Watt Hour	No Change
	<b>Total</b>	<b>3533</b>	<b>(-)550</b>	<b>2983</b>	<b>---</b>

**2. SPECIFIC CONDITIONS:-**

- Total production shall not exceed 2983 MT/Month in any case.
- There shall be no change in mode of disposal of waste water.
- There shall be no change in fuel consumption, flue gas emission and process gas emission.
- There shall be no change in Hazardous waste quantity / category.
- Unit shall sell out their hazardous waste to authorized end-users who is having authorization with valid CCA and rule 9 permission to receive this waste. Unit shall make MoU with such authorized end-users and submit MoU at time of application of CCA.
- All the efforts shall be made to send hazardous waste to cement industry for Co- processing first & there after it shall be disposed through other option.
- Unit shall follow spent solvent management guideline framed by board and shall make MoU with outside distillation units, if any. Also submit the prescribed forms as per guideline.
- There shall not be increase in pollution load due to proposed change in product mix.
- There shall not be any change in plant building, equipments & machineries to manufacture the proposed new products after change in product mix.
- In the case of submission of the false or misleading data, this CTE amendment will be forfeited immediately.
- Unit shall manufacture cypermethrin based product i.e. 4S Zeta cypermethrin & f-2700 Zeta Cypermethrin from Cypermethrin with max. production of 150 MTPA.
- When Cypermethrine (150 MTPA) and new product Deravitaves of Cypermethrin at 18 and 19 (150 MTPA) to be manufactured product other than cypermethrin at group 7 (total 150 MTPA) can not be manufactured.

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ISO-9001-2008 &amp; ISO-14001 - 2004 Certified Organisation

Page 7 of 10

- m. CCA is granted with a condition to comply guideline to be issued by Ministry of Environment, Forest and Climate Change in the matter of O.A.No.1038/2018 and Hon.NGT order dated: 10/07/2019 and 23/08/2019.

**[A] Additional conditions under Air Act:**

- a) Unit shall adhere to stringent air pollutants standards i.e. 80 % of existing flue gas and process emission standards in the CPA.

Flue gas Emission Standards		
Parameters	Existing	Revised norms (80% of Existing)
PM	150 mg/Nm <sup>3</sup>	120 mg/Nm <sup>3</sup>
SO <sub>2</sub>	100 PPM	80 PPM
NO <sub>x</sub>	50 PPM	40 PPM

- b) Following air pollution control measures shall be provided for the flue gas emission sources like Boiler, Thermic Fluid Heaters etc. (As Applicable)

Stipulated APCM in Red category industrial units of CPA	
Steam generation capacity (in TPH)	Type of APCM
Less than 1	Multi Cyclone
1 to <3	Multi Cyclone + Water Scrubber
3 to <6	Bag filter + Water Scrubber
≥ 6	ESP+ Water Scrubber

- c) Unit shall provide at least two stage scrubbing system of appropriate media for the control of the process gas emission.
- d) Unit shall install and commission Continuous Emission Monitoring System- CEMS (as per CPCB guidelines for relevant parameters) which shall be connected with GPCB/ CPCB server (In case of large and medium red category industries)
- e) All common facilities shall install CEMS (as per CPCB guidelines for relevant parameters) which shall be connected with GPCB/CPCB server to the Stacks provided with Common Multiple Effect Evaporator (CMEE), Common Spray Dryer, Common incinerator etc.
- f) The unit shall adhere to Sector specific guidelines/ SOP published by GPCB / CPCB from time to time for effective fugitive emission control. (like guidelines for: Stone crushing units, Coal handling units, spent solvent handling and management, spent acid management, Decontamination of drums, containers etc.)
- g) Unit shall take adequate measures to control odour nuisance from the industrial activities which may include measures like- use of masking agent with atomizer system (water curtain), closed / automatic material handling system, containment of the odour vulnerable areas etc.
- h) Unit shall not use Pet-coke, furnace oil, LSHS as a fuel.
- i) Unit shall adopt sectoral Best Available Technology-BAT (Like Use of Induction Furnace, Electric Arc Furnace instead of Cupola furnace in foundry industry, Caustic Recovery System in Cotton Textile units etc.)
- j) Unit shall provide green belt of 40% of the plot area, using concept of the social forestry and development of green belt outside project premises in adjacent areas.



GPCB

**GUJARAT POLLUTION CONTROL BOARD**

PARYAVARAN BHAVAN

Sector-10-A, **Gandhinagar** 382 010

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- k) Unit shall provide Wall to Wall carpeting in vehicle movement areas within premises to avoid dusting.

**[B] Additional conditions under the Water Act:**

- Unit shall only use treated effluent for preparation of lime and other slurry in ETP. No fresh water shall be utilized in ETP.
- In the case, if the Industry is not a member of CETP and domestic waste water generation is more than 10 KLPD, industry shall install STP of adequate capacity and treated sewage shall be reused / recycled to the maximum extent.
- In case of Large and Medium Red Category industry, the unit shall install system for continuous monitoring of effluent quality / quantity as per CPCB guidelines for relevant parameters (like pH, Flow, Temperature, TOC/COD, NH<sub>3</sub>-N etc.) and shall be connected to GPCB server. In case, if the industry is a member of CETP, unit shall install flow meter.
- If the water consumption of the unit is more than 50 KLPD, Unit shall submit detailed water harvesting plan (off site).
- The unit shall explore Techno-Economic feasibility of Zero Liquid Discharge (ZLD) and if feasible, ZLD should be adopted.

**[C] Additional conditions under the Hazardous Waste Management Rules:**

- Unit shall strictly carry out handling, storage and disposal of fly-ash, slag, red-mud, deinking sludge etc. (High Volume- Low Effect Wastes) as per prevailing guidelines and its disposal at designated locations approved by the Board.
- Industry shall dispose its hazardous wastes through co-processing, pre-processing to the extent possible prior its disposal to incineration/ landfill as per provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
- Industry shall strictly comply with all the measures specified in guidelines for spent solvent management, spent acid management, and other guidelines/directions published from time to time by GPCB and/or CPCB, etc.
- Unit shall carry out transportation of hazardous wastes through GPS mounted vehicles only.

**[D] Other General Conditions:**

- Unit shall submit report of compliance of the conditions of EC every year to the Board prepared by third party.
- Unit shall enhance CER fund allocation to at least 1.5 times the slabs given in the OM dated 01.05.2018 for SPA and 2 times for CPA in case of Environmental Clearance.

**3. CONDITION UNDER THE WATER ACT:**

- 3.1 The condition No. 3.3 for Water Consumption under Water Act of the CCA order No: **AWH-87335, issued vide letter no. GPCB/ ANK/ CCA-138(10)/ ID-15015/419991, dated 10/08/2017** is amended and shall now be read as under.

- Domestic: 50 KL/Day (Existing 50 KLD + Proposed Nil)
  - Industrial: 260.2 KL/Day (Existing 265 KLD - Proposed 4.8 KLD)
- Total: 310.2 KL/Day (Existing 315 KLD - Proposed 4.8 KLD)**

- 3.2 The condition No. 3.1 & 3.2 for Wastewater Generation under Water Act of the CCA order No: **AWH-87335, issued vide letter no. GPCB/ ANK/ CCA-138(10)/ ID-15015/419991, dated 10/08/2017** is amended and shall now be read as under.

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ISO-9001-2008 & ISO-14001 - 2004 Certified Organisation

Page 9 of 10



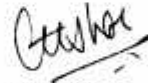
## Six Monthly EC Compliance Report

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- a. Domestic: 33.2 KL/Day (Existing 33.2 KLD + Proposed Nil)
- b. Industrial: 71.2 KL/Day (Existing 85.91 KLD - Proposed 14.7 KLD)
- Total: 104.4 KL/Day** (Existing 119.11 KLD - Proposed 14.7 KLD)

- 3.2 71.2 KLD treated effluent shall be discharged to NCTL by underground drainage line and 33.2 KLD domestic sewage shall be disposed off through septic tank/soak pit system as per previous CCA conditions.
- 4 All other conditions of CCA order No: **AWH-87335**, issued vide letter no. GPCB/ ANK/ CCA-138(10)/ ID-15015/419991, dated 10/08/2017 will remain same.

For and on behalf of  
GUJARAT POLLUTION CONTROL BOARD



(A.V.SHAH)  
SR. ENVIRONMENT ENGINEER

# Six Monthly EC Compliance Report

CC&A/CTO Copy



## GUJARAT POLLUTION CONTROL BOARD

Paryavaran Bhavan, Sector-10/A, Gandhinagar - 382010

Phone: (079)23226295, Fax: (079)23232156

Website: www.gpcb.gov.in

By R.P.A.D

### CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A)

CCA NO:AWH-87335

NO: GPCB / ANK / CCA- 138(10)/ ID- 15015/

DT :

In exercise of the power conferred under Section-25 of the Water (Prevention and Control of Pollution) Act - 1974, under Section - 21 of the Air (Prevention and Control of Pollution) Act - 1981 and Authorization under rule 6(2) of the Hazardous & Other Wastes (Management and Transboundary Movement) Rules-2016, framed under the E(P)Act-1986.

And whereas Board has received consolidated application dated 17/04/2017 and inward No.119450 for the consolidated consent and authorization (CC & A) of this Board under the provisions / rules of the aforesaid Acts, Consolidated Consent & Authorization is hereby granted as under.

#### CONSOLIDATED CONSENT AND AUTHORISATION:

(Under the provisions / rules of the aforesaid Environmental Acts)

TO,

M/s. Cheminova (India) Ltd. (Tech. Div.)

PLOT NO: 241

GIDC ESTATE:Panoli

TALUKA: Ankleshwar

DIST- Bharuch - 394116,Gujarat,India

1. Consent Order No.: AWH-87335 date of Issue 25/07/2017.

2. The consent under Water Act- 1974 for conveying the industrial effluent to the CETP of M/s. NCTL for the treatment and disposal of treated effluent, The consent under Air Act-1981 & Authorization under Environment (Protection) Act, 1986 shall be valid up to 16/04/2022 to operate industrial plant to manufacture following products:

Sr	Products	CTE Qty	Applied CCA Qty	Granted CCA Qty	Unit Per Mth	CAS No.	Remarks
1	NATURAL GAS BASED CAPTIVE POWER PLANT	2.04	2.04	2.04	Mega Watt Hour		
2	ORGANO PHOSPHATE: ACEPHATE TECH. (I), DICHLORVOS (I), CHLORPYRIFOS (I), QUINALPHOS (I), TRIAZOPHOS (I), PHOSALONE (I), OMETHOATE (I), PROTHIOFOS (I), TEMEFOS (I), PROFENOFOS (I), ETHION (I), ETHEPHON (I), GLYPHOSATE (H) ETC.	66.66	66.66	66.66	Metric Tonne		Either individual or total production of this group shall not exceed 800 MT/Annum

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ISO-9001-2008 & ISO - 14001 - 2004 Certified Organisation

Page No-1 of 12

# Six Monthly EC Compliance Report



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Sr	Products	CTE Qty	Applied CCA Qty	Granted CCA Qty	Unit Per Mth	CAS No.	Remarks
3	STROBILURIN:- AZOXYSTROBIN TECH. (F), DES-METHOXYAZOXY (DMA) (INT.), KRESOXIM METHYL (F), FLOUXASTROBIN (F), PYRACLOSTROBIN (F) ETC.	100.00	100.00	100.00	Metric Tonne		Either individual or total production of this group shall not exceed 1200 MT/Annum
4	NEONICOTINOID/AMIDE:IMI DACLOPRID TECH.(I), THIACLOPRID (I), ACETAMIPRID (I),BEFLUBUTAMIDE TECH. (H),FLUBENDAMIDE (I),CHLORANTRANILIPROLE (I),RYNEXAPYR (I),CYMOXANIL (F),THIFLUZAMIDE (F),CARBOXIN(F),CAPTAN (F),PRETILACHLOR (H),PROPYZAMIDE (H),PETHOXAMIDE(H),SNA (INT.)-(2-AMINOSULFONYL- N,N- DIMETHYLNICOTINAMIDE, MST(INT.)-(2- (METHOXYCARBONYL) THIOPHENE-3- SULFONAMIDE),FLUFENAC ET(H),BOSCALID (F) ETC.	18.75	18.75	18.75	Metric Tonne		Either individual or total production of this group shall not exceed 225 MT/Annum
5	KETONE:- DIMETHOMORPH TECH. (F), CLETHODIM (H), BUTROXYDIM (H), SPIROMESIFEN (I), MESOTRIONE (H), SULCOTRIONE (H), IBP (INT.)- (ISOBUTYROPHENONE), PYMETROZINE (I) ETC.	5.00	5.00	5.00	Metric Tonne		Either individual or total production of this group shall not exceed 60 MT/Annum
6	ETHER:- PROPARGITE TECH. (I), OXYFLUORFEN (H), ETOXAZOLE (I), EEA (INT.)- (2-ETHOXY ETHYL AMINE), S-CYNO-MPB (INT.) ETC.	5.00	5.00	5.00	Metric Tonne		Either individual or total production of this group shall not exceed 60 MT/Annum
7	ANILINE:- PENDIMETHALIN TECH. (H), METALAXYL (F), FAMOXADONE (F), TRIFLURALIN (H), FBPA-OH (INT.) ETC.	5.00	5.00	5.00	Metric Tonne		Either individual or total production of this group shall not exceed 60 MT/Annum

Outward No: 419991, 10/08/2019

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ISO-9001-2008 & ISO - 14001 - 2004 Certified Organisation

Page No-2 of 12

# Six Monthly EC Compliance Report



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Sr	Products	CTE Qty	Applied CCA Qty	Granted CCA Qty	Unit Per Mth	CAS No.	Remarks
8	ESTER / PYRETHROID:- FENOXAPROP-P-ETHYL TECH. (H), BIFENAZATE (I), QUIZALOFOP-P- ET (H), CLODINAFOF-PPG (H), ACRINATHRIN (I), BIFENTHRIN (I), CYHALOTHRIN (I), GAMMA- CYHALOTHRIN (I), LAMDA- CYHALOTHRIN (I), CYPERMETHRIN (I) AND ITS ANALOGS, DELTA- METHRIN (I), CYFLUTHRIN (I) AND ITS ANALOGS, PERMETHRIN (I), BIOALLETHRIN (I), FENVALERATE (I), IMIPROTHRIN (I) ETC.	12.50	12.50	12.50	Metric Tonne		Either individual or total production of this group shall not exceed 150 MT/Annum
9	CARBAMATE & THIO BASED PRODUCTS:- CARTAP.HCL TECH. (I), THIODICARB (I), THIOPHANATE-ME (F), PROPINEB (F), METIRAM (F), THIRAM (F), ISOPROTHIOLANE TECH. (I), THIOCYCLAM (I), PROTHIOCARB (F), FLUTIANIL (F) ETC.	8.33	8.33	8.33	Metric Tonne		Either individual or total production of this group shall not exceed 100 MT/Annum
10	QUATERNARY SALT & OTHER SALTS, ACID BASED PRODUCTS:-MEPIQUAT CHLORIDE TECH. (I), CHLORMEQUAT CHLORIDE (I), OTHER SALTS: COPPER HYDROXIDE (BACTERICIDE, F), COPPER SULFATE (ALGICIDE, F) ETC. FLUPROPANATE-NA TECH. (H) + HPAA (INT.)-(2- HYDROXYPHENYLACETIC ACID), BBA (INT.)-( BROMOBUTYRICACID), HPPA-INT. (2-(4-HYDROXY PHENOXY)PROPANATE), PICLORAM (H), DICAMBA (H), 2-CYANOPHENOL (INT.) ETC.	5.67	5.67	5.67	Metric Tonne		Either individual or total production of this group shall not exceed 68 MT/Annum
11	TRIAZOLS:- 2,6DICHLOROBENZOXAZOL E(INT.), ISOXAFLUTOLE(H), FLURASULAM(H), TDA(INT) (TRIFLUOROMETHYLTHIAD IAZOLE), FLUTRIAFOL TECH (F), PROTHICONAZOLE(F), SULFENTRAZONE(H), CARFENTRAZONE-ET(H) ETC.	33.33	33.33	33.33	Metric Tonne		Either indi. or total production of this group sr.no. 11&12 shall not exceed 400 MT/Annum

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ISO-9001-2008 & ISO - 14001 - 2004 Certified Organisation

Page No-3 of 12





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## GUJARAT POLLUTION CONTROL BOARD

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Sr	Products	CTE Qty	Applied CCA Qty	Granted CCA Qty	Unit Per Mth	CAS No.	Remarks
12	TRIAZOLS: FIPRONIL TECH (I), PROPICONAZOLE(F), EPOXYCONAZOLE(F), TEBUCONAZOLE(F), DIFENOCONAZOLE(F), HEXACONAZOLE(F), TRICYCLAZOLE(F), MYCLOBUTANIL(F), FLUSILAZOLE(F), PACLOBUTRAZOLE(PGR), THIAMETHOXAM(I), CHLOROTHALONIL(F), TRIADIMEFON(F), ISOXADIFEN-ET(SF),	33.33	33.33	33.33	Metric Tonne		Either indi. or total production of this group sr.no. 11&12 shall not exceed 400 MT/Annum
13	HETROCYCLIC (PYRIMIDINE / PYRIDINE / TRIAZINE):- BISPYRIBAC-NA TECH. (H), PIRIMICARB (I), PYRITHIOBAC-NA (H), FLUMETSULAM (H), CYPRODINIL (F), FLORASULAM (H), PENOXULAM (H), DCP (INT.)-(4,6-DICHLOROPYRIMIDINE), ACMP (INT.)-(2-AMINO-4-CHLORO-6-METHOXYPYRIMIDINE), IMAZETHAPYR TECH. (H), PYRIDALYL TECH. (I), DIFLUFENICAN (H), CLOQUINTOCET-MEXYL (SF),	15.42	15.42	15.42	Metric Tonne		Either indi. or total production of this group sr.no. 13&14 shall not exceed 185 MT/Annum
14	HETROCYCLIC (PYRIMIDINE/ PYRIDINE/ TRIAZINE):- FLUAZINAM (F), FENPYROXIMATE TECH. (I), METRIBUZIN (H), AMITRAZ (I), CLOFENTEZINE (I), MMT (INT.)-(2-METHOXY-4-METHYL-6-METHYLAMINO-1,3,5-TRIAZINE, METOXYFENOZIDE (I), FENCHLORIM (SF), 2-HYDROXY-3,5,6-TRICHLOROPYRIDINE & ITS SODIUM SALT (INT. OF CHLORPYRIPHOS) ETC.	15.42	15.42	15.42	Metric Tonne		Either indi. or total production of this group sr.no. 13&14 shall not exceed 185 MT/Annum

Outward No: 419991, 10/08/2018

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ISO-9001-2008 & ISO - 14001 - 2004 Certified Organisation

Page No-4 of 12

**GUJARAT POLLUTION CONTROL BOARD**

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Sr	Products	CTE Qty	Applied CCA Qty	Granted CCA Qty	Unit Per Mth	CAS No.	Remarks
15	UREA / SULPHONYL UREAS:- CHLORIMURON-ET TECH. (H), BUPROFEZIN TECH. (I), INDOXACARB (I), NOVALURON (I), LUFENURON (I), DIAFENTHIURON (I), AMICARBAZONE (H), FLUCARBAZONE (H), THIADIAZURON (PGR), HEXYTHIAZOX (I), LINURON (H), DIURON (H), TEFLUTHRIN (I), METSULFURON-METHYL (H).	18.75	18.75	18.75	Metric Tonne		Either indi. or total production of this group sr.no. 15&16 shall not exceed 225 MT/Annum
16	UREA / SULPHONYL UREAS:- THIFENSULFURON-METHYL (H), TRIBURON-METHYL (H), RIMSULFURON (H), IODOSULFURON (H), DIAMURON (H), CHLORSULFURON (H), PYRAZOLESULFURON (H), PYRAZOLESULFURON-ETHYL (H) ETC.	18.75	18.75	18.75	Metric Tonne		Either indi. or total production of this group sr.no. 15&16 shall not exceed 225 MT/Annum

**SPECIFIC CONDITIONS**

(1) Unit shall not manufacture any product which generated hazardous waste like ammonium sulphate / ammonium solution / sodium chloride / sodium sulphate / potassium chloride / potassium sulphate / acetic acid / sodium acetate etc till unit make any MoU with end user who is having permission under rule 9 & authorisation to receive this waste. Unit shall also submit MoU copies to Board.

**OTHER CONDITIONS**

- 1.All the efforts shall be made to send hazardous waste to cement industry for Co- processing first & there after it shall be disposed through other options.
- 2.Unit shall follow spent solvent management guideline framed by the Board and shall make MoU with outside distillation units, if any. Also submit the prescribed forms as per guideline.

Outward No: 419991, 10/08/2017

**Clean Gujarat Green Gujarat**  
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Page No-5 of 12



## GUJARAT POLLUTION CONTROL BOARD

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**3. CONDITION UNDER THE WATER ACT:****SPECIFIC CONDITION**

1. Mother liquor 21.19 m<sup>3</sup>/ day shall be incinerated to common incineration facility at BEIL or SEPL or GSPL, Palsana and / or co- processing in cement industries.

3.1 The quantity of total water consumption shall not exceed 315.00 KL/Day as per below break up as mentioned in form D submitted for consent application under the Water Act- 1974.

- a) Industrial: 265.00 KL/Day
- b) Domestic: 50.00 KL/Day

3.2 The quantity of total waste water generation shall not exceed 119.11 KL / Day as per below break up as mentioned in form D submitted for consent application under the Water Act- 1974.

- a) Industrial: 85.91 KL/Day
- b) Domestic: 33.20 KL/Day

3.3 Sewage shall be disposed off through septic tank/soak pit system or shall be treated separately in Sewage Treatment Plant (STP) to conform the following standards and treated sewage shall be utilized on land for irrigation / plantation.

Sr. No.	PARAMETERS	PERMISSIBLE LIMIT
1	Biochemical Oxygen Demand, BOD <sub>5</sub> , 27° C	Less than 20 mg/L
2	Total Suspended Solids	Less than 30 mg/L
3	Total Residual Chlorine	Minimum 0.5 ppm

Or Sewage shall be treated in ETP along with Industrial effluent and discharged into GIDC underground drainage system and conveyed to FETP (NCTL).

3.4 The quality of industrial effluent shall conform to the following standards(as per GPCB norms, whichever is applicable)

SR No.	PARAMETERS	PERMISSIBLE LIMIT
1	pH	6.5 to 8.5
2	Temperature	40 C
3	Colour (pt.co.scale)	100 units
4	Total Suspended Solids (TSS)	150 mg/l
5	Total Dissolved Solids (TDS)	10000 mg/l
6	Biochemical Oxygen Demand, BOD <sub>5</sub> , 27 C	200 mg/l
7	Chemical Oxygen Demand (COD)	1000 mg/l
8	Oil and Grease( O & G)	10 mg/l
9	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	5 mg/l
10	Sulphide (as S)	5 mg/l
11	Ammonical Nitrogen (as N)	50 mg/l
12	Total Kjeldahl Nitrogen (as N)	50 mg/l
13	Phosphate (as P)	5 mg/l
14	Chlorides (as Cl)	1000 mg/l
15	Sulphates (as SO <sub>4</sub> )	1000 mg/l
16	Cyanide (as CN)	0.2 mg/l

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Page No-6 of 12





## GUJARAT POLLUTION CONTROL BOARD

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17	Fluoride (as F)	15 mg/l
18	Hexavalent Chromium (as Cr+6)	0.1 mg/l
19	Total Chromium (as Cr)	2 mg/l
20	Copper (as Cu)	3 mg/l
21	Nickel (as Ni)	3 mg/l
22	Zinc (as Zn)	15 mg/l
23	Iron (as Fe)	3 mg/l
24	Manganese (as Mn)	2 mg/l
25	Mercury (as Hg)	0.01 mg/l
26	Lead (as Pb)	0.1 mg/l
27	Arsenic (as As)	0.2 mg/l
28	Venedium (as V)	0.2 mg/l
29	Cadmium (as Cd)	0.05 mg/l
30	Selenium (as Se)	0.05 mg/l
31	Bio-assay test	90 % Survival of fish after 96 hours in 100 % effluent
32	Insecticides/ Pesticides	Absent

3.5 The effluent conforming to the above standards shall be discharged into G.I.D.C. underground drainage system and conveyed to FETP (NCTL) which ultimately leads to deep sea for final disposal through pipeline.

3.6 Unit shall be required to make storage facilities to store the effluent for at least 72 hours by providing acid proof brick lined impervious tanks / HDPE tanks.

3.7 In case of shut - down of plant for more than three (3) days for any reason, the NCTL unit member shall intimate to NCTL authority & GPCB well in advance for the better operation & management of CETP.

3.8 Unit shall make fixed arrangement for discharge of the effluent from their Final collection tanks to the underground drainage network of NCTL. Unit shall not keep any by-pass line or system or loose or flexible pipe line for discharge of the effluent into underground drainage network of NCTL.

3.9 Magnetic flow meters shall be installed at the inlet & outlet of effluent collection tanks / ETP to measure the quantity of effluent discharged into the underground drainage network of NCTL.

3.10 Unit shall affix of water meters as per Section 4 (1) of the water (Prevention and Control of Pollution) Cess Act - 1977 for the purpose of measuring and recording the quantity of water consumed at such places as may be required, within 15 days and it shall be presumed that the quantity indicated by the meter has been consumed by the unit until the contrary is proved.

3.11 Unit shall provide adequate / safe effluent sampling facility for the effluent being stored in final collection / discharge tank of ETP or being discharged into CETP.

3.12 Unit shall put up at the entrance a board displaying the name of unit, particulars of the products/ process, the name of proprietor / partners / directors of the unit, NCTL membership number & date of joining of NCTL, the electricity consumer number as on the record of DGVCL.

3.13 Unit shall have to display on - line data outside the main factory gate with regard to and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises.

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Page No-7 of 12





## GUJARAT POLLUTION CONTROL BOARD

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- 3.14 Unit shall either stop or curtail its production activities if the effluent is not adequately treated by the FETP of NCTL to conform to the standards specified by GPCB.
- 3.15 The authorized representative of NCTL shall have right of entry at any time for the purpose of inspection and monitoring the effluent collection facilities / ETP (if required) of Unit.
- 3.16 Unit shall have to keep accurate records of quality & quantity of effluent discharged to FETP on day-to-day basis. Separate logbook shall be maintained for recording the data & shall be made available for inspection as & when asked.
- 3.17 Unit shall keep accurate records of quantity of production of each product, quantity of water consumption, quantity of effluent generated and consumption of electricity on day to day basis and required to submit the complied record of each month to GPCB on or before fifth day of the succeeding month.
- 3.18 In case of incinerators or MEE, the flow measuring devices for mother liquor/ toxic effluent / Non-biodegradable effluent, light diesel oil, Furnace oil, etc. i.e. fuel used for combustion, air used for combustion shall be separately provided. Incinerator temperature recording devices as well as gaseous flow measuring devices for scrubber shall also be provided. These data of temperature & flow should be recorded every day & submitted to GPCB on monthly basis.
- 3.19 Disposal system for storm water shall be provided separately. In no circumstances storm water shall be mixed with the industrial effluent.
- 3.20 Leachate from the hazardous solid waste, if any shall also be connected into a collection tank through leachate collection facilities and shall be treated along with industrial effluent and final treated effluent shall be discharged to the CETP of NCTL.
- 3.21 If the NCTL authority terminates the membership of CETP, the NCTL member unit shall have to close down the manufacturing activities / industrial operation of the process plant immediately until the NCTL membership is resumed.
- 3.22 The Environmental Management Unit / Cell shall be setup to ensure implementation on and monitoring of environment safeguards and other conditions stipulated by statutory authorities. The Environmental Management Cell / Unit shall directly report to the Chief Executive of the organization and shall work as a focal point for internalizing environmental issues. These Cells also coordinate the exercise of environmental audit and preparation of environmental statements.
- 3.23 The Environmental audit shall be carryout yearly, if applicable. The environmental statements pertaining to the previous year shall be submitting to this State Board latest by 30th September every year.
- 3.24 Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is at least 1000 trees per acre of land and a green belt of 5 meters width is developed.
- 3.25 In case of change of ownership / management the name and address of the new ownership / partners/ directors/ proprietor should immediately be intimate to the Board. Also any change in equipment or working conditions as mentioned in the consents form / order should immediately be intimated to this Board.
- 3.26 The Board reserves the right to review and/or revoke the consent and / or make modifications in the conditions which it seems fit in accordance with provisions of Water Act - 1974.

#### 4.CONDITIONS UNDER THE AIR ACT:

- 4.1 Unit shall use fuel as specified in this consent and the flue gas emission through stack shall conform to the following standards:

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ISO-9001-2008 & ISO - 14001 - 2004 Certified Organisation

Page No-8 of 12

# Six Monthly EC Compliance Report



## GUJARAT POLLUTION CONTROL BOARD

Paryavaran Bhavan, Sector-10/A, Gandhinagar - 382010

Phone: (079)23226295 , Fax: (079)23232156

Website: www.gpcb.gov.in

Sr. No.	Stack ID / Stack attached to	Capacity / Remarks	Name of Fuel	Quantity of Fuel	Air Pollution Control Measure (APCM)	Stack Height in Mt. (From G.L.)	Parameter	Perm. limit	Unit
1	41726 - Boiler	WHRB -Captive Power Plant	NATURAL GAS	5500 Sm <sup>3</sup> /day	Not Applicable	30	PM SO <sub>2</sub> NO <sub>x</sub>	150 100 50	mg/ Nm <sup>3</sup> PPM PPM
2	8820 - Boiler	Boiler (Capacity - 10 TPH & 5 TPH)	NATURAL GAS	7000 Sm <sup>3</sup> /day or FO: 4000 Kg/day	Not Applicable	30	PM SO <sub>2</sub> NO <sub>x</sub>	150 100 50	mg/ Nm <sup>3</sup> PPM PPM
3	8822 - D.G. Sets	D.G.Set (Cap. 1250 KVA)	H.S.D	2160 Lit/day	Not Applicable	11	PM SO <sub>2</sub> NO <sub>x</sub>	150 100 50	mg/ Nm <sup>3</sup> PPM PPM
4	8823 - Incinerator	Common vent of New & Old Incinerator with Two stage caustic scrubbing system	NATURAL GAS	3000 Sm <sup>3</sup> /day	Alkali Scrubber	45	Parameter as Mentioned Below		

Treated flue gas emissions discharge through stack of Incinerator to atmosphere shall always be less than or equal to the following parameter-specific emission standards:

Parameter	Emission Standard	Sampling Duration
Cd + Th + their compounds	0.05 mg/Nm <sup>3</sup>	Sampling time anywhere between 30 minutes and 8 hours.
CO	100 mg/Nm <sup>3</sup>	30 Minutes
CO	50 mg/Nm <sup>3</sup>	Standard refers to daily average value
HCl	50 mg/Nm <sup>3</sup>	30 Minutes
HF	4 mg/Nm <sup>3</sup>	30 Minutes
Hg and its compounds	0.05 mg/Nm <sup>3</sup>	Sampling time anywhere between 30 minutes and 8 hours.
NO <sub>x</sub> (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	400 mg/Nm <sup>3</sup>	30 Minutes
Particulates	50 mg/Nm <sup>3</sup>	30 Minutes
Sb + As + Pb + Cr + Co + Cu + Mn + Ni + V + their compounds	0.5 mg/Nm <sup>3</sup>	Sampling time anywhere between 30 minutes and 8 hours.
SO <sub>2</sub>	200 mg/Nm <sup>3</sup>	30 Minutes
Total dioxins and furans	0.1 ng TEQ/Nm <sup>3</sup>	6-8 hours sampling. Please refer guidelines for 17 concerned congeners for toxic equivalence values to arrive at total toxic equivalence.
Total Organic Carbon	20 mg/Nm <sup>3</sup>	30 Minutes

**Note: All values of outlet parameters of Incinerator shall be corrected to 11% oxygen on a dry basis.**

**4.2** The Process emission through various stacks / vent of reactors , process, vessel shall conform to the following standards:

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Page No-9 of 12



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**GUJARAT POLLUTION CONTROL BOARD**

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Sr. No	Stack ID / Stack attached to	Name of Process / Plant	Air Pollution Control Measure (APCM)	Stack Height in Mt. (From G.L.)	Parameter & Permissible limit
1	43940 - Reaction Vessels	Reaction vessel of AZOXY Plant with Caustic scrubbing system	Alkali Scrubber	25	HCL- 20 mg/ Nm <sup>3</sup> Chlorine- 09 mg/ Nm <sup>3</sup>
2	43939 - Reaction Vessels	Reaction vessel of ACP Plant with Ozone treatment followed by Hypo scrubber & Carbon bed	Scrubber	25	HCL- 20 mg/ Nm <sup>3</sup> Chlorine- 09 mg/ Nm <sup>3</sup>

4.3 The concentration of the following parameters in the ambient air within the premises of the unit shall not exceed the limits specified hereunder.

Sr. No.	Parameters	Permissible Limit (microgram /m3)	
		Annual	24 Hours Average
1.	Particulate Matter (PM10 )	60	100
2.	Particulate Matter (PM2.5 )	40	60
3.	Oxides of Sulphur (SO <sub>x</sub> )	50	80
4.	Oxides of Nitrogen (NO <sub>x</sub> )	40	80

a. Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

b. 24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

4.4 Unit shall operate industrial plant / air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the standards specified as above.

4.5 The consent to operate the industrial plant shall lapse if at any time the parameters of the gaseous emission are not within the tolerance limits specified as above.

4.6 Unit shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection to /and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted / displayed to facilitate identification.

4.7 Unit shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB(a) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6 a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.

4.8 All efforts shall be made to control VOC emissions and odor problem, if any.

#### 5. AUTHORISATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES Form-2 (See rule 6(2))

5.1 Number of authorization: AWH-87335 date of Issue 25/07/2017.

5.2 M/s: Cheminova (India) Ltd. (Tech. Div.) is granted an authorization to operate facility for following hazardous wastes on the situated at PLOT NO: 241 GIDC ESTATE Panoli DIST: Bharuch.

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ISO-9001-2008 & ISO - 14001 - 2004 Certified Organisation

Page No-10 of 12



# Six Monthly EC Compliance Report



## GUJARAT POLLUTION CONTROL BOARD

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Phone: (079)23226295 , Fax: (079)23232156

Website: www.gpcb.gov.in

Sr	Name of Hazardous Waste	Sch	Catg.	Qty MT/Year	Facility	Mode of Disposal & Remarks
1	Spent Solvents	I	20.2	500.00	Co-Processing, Collection, Re-Cycling, Incineration, Disposal, Reuse, Recovery, Storage, Transportation	Spent Solvent (MDC, EA, ACETONE etc) Recover & Reuse within industrial unit OR incineration to CHWIF at BEIL/ SEPPL/ own incinerator OR Disposal by sell out to authorized users having rule 9 & authori.
2	Spent Solvents	I	20.2	1200.00	Co-Processing, Collection, Re-Cycling, Incineration, Disposal, Reuse, Recovery, Storage, Transportation	STRIPPED SOLVENT FROM STRIPPER: Recover & Reuse within industrial unit OR incineration to CHWIF at BEIL/ SEPPL/ own incinerator OR Disposal by sell out to authorized users having rule 9 & authori.
3	Process wastes or residues	I	29.1	2311.00	Co-Processing, Collection, Generation, Incineration, Disposal, Storage, Transportation	PROCESS WASTE: 2160 MT/Year of Tech. Div. + 151 MT/Year of Fml. Div. Sister Unit: Disposal to common CHWIF facility BEIL/ SEPPL/ GSPL. Palana/ RSPL/ Co-processing in cement industries
4	Spent acids	I	29.6	16524.00	Collection, Disposal, Storage, Transportation	Acetic acid /Sodium Acetate /Organic by-products etc.: Disposal by sell out to authorized users who is having authorization with valid CCA and rule 9 permission to receive this waste.
5	Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	I	33.1	362.11	Collection, Decontamination, Generation, Disposal, Reuse, Storage, Transportation	Disposal by send it to authorized decontamination facility / recycler or reuse or send back to supplier or send it to common TSDF/ CHWIF facility at BEIL/SEPPL
6	Chemical sludge from waste water treatment	I	35.3	305.00	Collection, Disposal, Storage, Transportation	Chemical sludge from waste water treatment includes ETP sludge (305 MT/Year): Disposal at TSDF - BEIL/ SEPPL
7	Chemical sludge from waste water treatment	I	35.3	1525.00	Collection, Disposal, Storage, Transportation	Evaporation Salt (1525MT/Year) : Disposal at TSDF - BEIL/ SEPPL
8	Ash from incinerator and flue gas cleaning residue	I	37.2	720.00	Collection, Disposal, Storage, Transportation	INCINERATOR ASH: Disposal to common TSDF facility BEIL/ SEPPL
9	Used or Spent Oil	I	5.1	0.36	Collection, Disposal, Reuse, Storage, Transportation	Disposal by Reuse in plant & machinery as lubricant or sell it to authorized re-refiners / recycler.
10	Salts Of Per-Acids	II	B36	18864.00	Collection, Disposal, Storage, Transportation	Ammonium Sulphate / Ammonia Solution / Sodium chloride / Sodium sulfate / Potassium chloride / Potassium sulfate: Disposal by sell out to authorized users having rule 9 & authorisation in valid CCA

5.3 The authorization is granted to operate a facility as above.

5.4 The authorization shall be in force for a period up to 16/04/2022.

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ISO-9001-2008 & ISO - 14001 - 2004 Certified Organisation

Page No-11 of 12



**GUJARAT POLLUTION CONTROL BOARD**

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5.5 The authorization is subject to the conditions stated below and such other conditions as may be specified in the rules from time to time under the Environment (Protection) Act - 1986.

**6 TERMS AND CONDITIONS OF AUTHORISATION:**

- 6.1 The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
- 6.2 The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the Gujarat Pollution Control Board.
- 6.3 The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
- 6.4 Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
- 6.5 The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.
- 6.6 The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"
- 6.7 It is the duty of the authorised person to take prior permission of the Gujarat Pollution Control Board to close down the facility.
- 6.8 The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
- 6.9 The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
- 6.10 The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.
- 6.11 The importer or exporter shall bear the cost of import or export and mitigation of damages if, any.
- 6.12 An application for the renewal of an authorisation shall be made as laid down under Hazardous & Other Wastes (Management and Transboundary Movement) Rules - 2016.
- 6.13 Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
- 6.14 Annual return shall be filed by June 30th for the period ensaring 31st March of the year.
- 6.15 Unit shall have to display the relevant information with regard to hazardous waste as indicated in the Court's order in W.P. No. 657 of 1995 dated 14th October 2003.

For and on behalf of  
**GUJARAT POLLUTION CONTROL BOARD**

*D. M. Thaker*  
D. M. Thaker, Unit Head

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Page No-12 of 12

# Six Monthly EC Compliance Report

CTE Amendment Copy



## GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN  
Sector-10-A, Gandhinagar 382 010  
Phone : (079) 23222425  
(079) 23232152  
Fax : (079) 23232156  
Website : www.gpcb.gov.in

By R.P.A.D.

### Consent to Establish (NOC) - Amendment CTE AMENDMENT NO: CTE - 99440

NO: GPCB/ANK/CCA-138(13)/ID-15015/

DT: \_\_\_/03/2019

✓ To,  
M/S. CHEMINOVA (INDIA) LTD. (TECH DIV.),  
PLOT NO:241,  
GIDC ESTATE PANOLI,  
DIST-BHARUCH.

SUB: Amendment in Consent to Establish (NOC) under Section 25 of Water Act 1974 and Section 21 of Air Act 1981.  
REF: (1) Your NOC application No. 144159 dated 05/12/2018(for CTE - Change in Product mix ).  
(2) CCA No. AWH - 87335 dated :10/08/2017.

Sir,

Without prejudice to the powers of this Board under the Water (Prevention and Control of Pollution) Act-1974, the Air (Prevention and Control of Pollution) Act-1981 and the Environment (Protection) Act-1986 and without reducing your responsibilities under the said Acts in any way, this is to inform you that this Board grants **Consent to Establish (NOC)** for **Change in Product Mix** in an industrial plant/activities at **PLOT NO:241, GIDC ESTATE PANOLI, DIST: BHARUCH** to manufacture the following products. The Validity of this order will be up to 14/02/2024.

### 1. The list of proposed products to be manufactured shall be as follows:

Sr. No.	Products	Quantity (MT/Annum)			Remarks
		Existing	Proposed	Total (After Change in Product Mix)	
1.	ORGANO PHOSPHATE: - ACEPHATE TECH. (I), DICHLORVOS (I), CHLORPYRIFOS (I), QUINALPHOS (I), TRIAZOPHOS(I), PHOSALONE (I), OMETHOATE (I), PROTHIOFOS (I), TEMEFOS (I), PROFENOFOS (I), ETHION (I), ETHWEPHON (PGR).	Either individual or total production of this group shall not exceed 800 MT/Annum	(-)800	---	To be discontinued

Page 1 of 8

**Clean Gujarat Green Gujarat**  
ISO-9001-2008 & ISO-14001 - 2004 Certified Organisation

# Six Monthly EC Compliance Report

	GLYPHOSATE (H), etc.				
2.	STROBILURIN: - AZOXYSTROBIN TECH. (F), DES- METHOXYAZOXY (DMA) (INT.) KRESOXIM METHYL (F), FLOUXASTROBIN (F), PYRACLOSTROBIN (F) etc.	Either individual or total production of this group shall not exceed 1200 MT/Annum	(-)1200	---	To be discontin ued
3.	NEONICOTINOID/A MIDE: - IMI DACLOPRID TECH (I), THIACTOPRID (I), ACETAMIPRID (I), BEFLUBUTAMIDE TECH (H), FLUBENDAMIDE (I), CHLORANTRANILIP ROLE (I), RYNEXAPYR (I), CYMOXANIL (F), THIFLUZAMIDE (F), CARBOXIN (F), CAPTAN (F), PRETILACHLOR (H), PROPYZAMIDE (H), PETHOXAMIDE (H), SNA(INT.)-(2- AMINOSULFONYL- N,N- DIMETHYLNICOTIN AMIDE), MST(INT.)- (2- METHOXYCARBONY L)THIOPHENE-3- SULFONAMIDE), FLUFENACET (H), BOSCALID (F) etc.	Either individual or total production of this group shall not exceed 225 MT/Annum	---	Either individual or total production of this group shall not exceed 225 MT/Annu m	No Change
4.	KETONE: - DIMETHOMORPH TECH. (F), CLETHODIM (H), BUTROXYDIM (H),	Either individual or total production of this	---	Either individual or total production of this	No Change

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	SPIROMESIFEN (I), MESOTRIONE (H), SULCOTRIONE (H), IBP (INT.)- (ISOBUTYROPHENO NE), PYMETROZINE (I) etc.	group shall not exceed 60 MT/Annum		group shall not exceed 60 MT/Annu m	
5.	ETHER:- PROPARGITE TECH. (I), OXYFLUORFEN (H), ETOXAZOLE (I), EEA (INT.)-(2- ETHOXY ETHYL AMINE), S-CYNO- MPB (INT.) etc.	Either individual or total production of this group shall not exceed 60 MT/Annum	---	Either individual or total production of this group shall not exceed 60 MT/Annu m	No Change
6.	ANILINE:- PENDIMETHALIN TECH. (H), METALAXYL (F), FAMOXADONE(F), TRIFLURALIN (H), FIPA-OH (INT.) etc.	Either individual or total production of this group shall not exceed 60 MT/Annum	(-)60	---	To be discontin ued
7.	ESTER/PYRETHROI D:- FENOXAPROP-P- ETHYL TECH. (H), BIFENAZATE (I), QUIZALOFOP-P-ET (H), CLODINAFOP- PPG (H), ACRINATHRIN (I), BIFENTHRIN (I), CYHALOTHRIN (I), GAMMA- CYHALOTHRIN (I), LAMDA- CYHALOTHRIN (I), CYPERMETHRIN (I), AND ITS ANALOGS, DELTA-METHRIN (I), CYFLUTHRIN (I) AND ITS ANALOGS, PERMETHRIN (I), BIOALLETHRIN (I), FENVALERATE (I),	Either individual or total production of this group shall not exceed 150 MT/Annum	---	Either individual or total production of this group shall not exceed 150 MT/Annu m	No Change

Page 3 of 8

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	IMIPROTHRIN (I) etc.				
8.	CARBAMATE & THIO BASED PRODUCTS: - CARTAP.HCL TECH. (I), THIODICARB (I), THIOPHANATE-ME (F), PROPINEB (F), METIRAM (F), THIRAM (F), ISOPROTHIOLANE TECH (I), THIOCYCLAM (I), PROTHIOCARB (F), FLUTIANIL (F) etc.	Either individual or total production of this group shall not exceed 100 MT/Annum	---	Either individual or total production of this group shall not exceed 100 MT/Annu m	No Change
9.	QUATERNARY SALT AND OTHER SALTS, ACID BASED PRODUCTS: - MEPIQUAT CHLORIDE TECH. (I), CHLORMEQUAT CHLORIDE (I), OTHER SALTS: COPPER HYDROXIDE (BACTERICIDE,F), COPPER SULPHATE (ALGICIDE,F), etc., FLUPROPANATE-NA TECH (H) + HPAA (INT.)-(2- HYDROXYPHENYLA CETIC ACID), BBA (INT.)-( BROMOBUTYRICAC ID), HPPA-INT.(2-(4- HYDROXYPHENOXY) PROPANATE), PICLORAM (H), DICAMBA (H), 2- CYANOPHENOL (INT.) etc.	Either individual or total production of this group shall not exceed 68 MT/Annum	---	Either individual or total production of this group shall not exceed 68 MT/Annu m	No Change
10.	TRIAZOLS: - 2,6 DICHLOROBBNZOXA ZOLS (INT.), ISOXAFLUTOLE (H), FLURABULAM (H).				No Change

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	TDA (INT.) (TRIFLUOROMETHYLTHIAZOLE), FLUTRIAFOL TECH (F), PROTHICONAZOLE (F), SULFENTRAZONE (H), CARFENTRAZONE-ET (H) etc.	Either individual or total production of this group Sr. No. 11 & 12 shall not exceed 400 MT/Annum	---	Either individual or total production of this group Sr. No. 11 & 12 shall not exceed 400 MT/Annum	
11.	TRIAZOLS: - FIPRONIL TECH (I), PROPICONAZOLE (F), EPOXYCONAZOLE (F), TEBUCONAZOLE (F), DIFENOCONAZOLE (F), HEXA CONAZOLE (F), TRICYCLAZOLE (F), MYCLOBUTANIL (F), FLUSILAZOLE (F), PACLOBUTRAZOLE (PGR), THIAMETHOXAM (I), CHLOROTHALONIL (F), TRIADIMEFON (F), ISOXADIFEN-ET (SF)				No Change
12.	HETROCYCLIC (PYRIMIDINE/PYRIDINE/TRIAZINE): - BISPYRIBAC-NA TECH. (H), PIRIMICARB (I), PYRITHIOBAC-NA (H), FLUMETSULAM (H), CYPRODINIL (F), FLORASULAM (H), PENOX SULAM (H), DCP (INT.)-(4,6-DICHLOROPYRIMIDINE), ACMP (INT.)-(2-AMINO-4-CHLORO-6-	Either individual or total production of this group Sr. No. 13 & 14 shall not exceed 185 MT/Annum	---	Either individual or total production of this group Sr. No. 13 & 14 shall not exceed 185 MT/Annum	No Change

Page 5 of 8

**Clean Gujarat Green Gujarat**  
ISO-9001-2008 & ISO-14001 - 2004 Certified Organisation

	METHOXYPYRIMIDINE), IMAZETHAPYR TECH. (H), PYRIDALYL TECH (I), DIFLUFENICAN (H), CLOQUINTOCET-MEXYL(SF)				
13.	HETEROCYCLIC (PYRIMIDINE/PYRIDINE/TRIAZINE): - FLUAZINAM (F), FENPYROXIMATE TECH. (I), METRIBUZIN (H), AMITRAZ (I), CLOFENTEZINE (I), MMT (INT.)-(2-METHOXY-4-METHYL-6-METHYLAMINO-1,3,5-TRIAZINE, METOXYFENOZIDE (I), FENCHLORIM (SF), 2-HYDROXY-3,5,6-TRYCHLOROPYRIDINE & ITS SODIUM SALT (INT. OF CHLORPYRIPHOS) etc.				No Change
14.	UREA/SULPHONYL UREA: - CHLORIMURON-ET TECH. (H), BUPROFEZIN TECH. (I), INDOXACARB (I), NOVALURON (I), LUFENURON (I), DIAFENTHIURON (I), AMICARBAZONE (H), FLUCARBAZONE (H), THIADIAZURON (PGR), HEXYTHIAZOX (I), LINURON (H), DIURON (H),	Either individual or total production of this group Sr. No. 15 & 16 shall not exceed 225 MT/Annum	(-)225	---	To be discontinued

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	TEFLUTHRIN (I), METSULFURON- METHYL (H)				
15.	UREA/SULPHONYL UREA: - THIFENSULFURON- METHYL (H), TRIBURON-METHYL (H), RIMSULFURON (H), IODOSULFURON (H), DIAMURON (H), CHLORSULFURON (H), PYRAZOLESULFURO N(H), PYRAZOLESULFURO N-ETHYL (H) etc.				
16.	Ryanxypyr	---	935	935	New Product
17.	Isoxazolidinone sodium solution	---	650	650	New Product
18.	4S Zeta Cypermethrin	---	150	150	New Product
19.	F-2700 Zeta Cypermethrin				
20.	NATURAL GAS BASED CAPTIVE POWER PLANT	2.04 Mega Watt Hour	---	2.04 Mega Watt Hour	No Change
	<b>Total</b>	<b>3533</b>	<b>(-)550</b>	<b>2983</b>	<b>---</b>

**2. SPECIFIC CONDITIONS:**

- Total production shall not exceed 2983 MT/Annum in any case.
- There shall be no change in mode of disposal of waste water.
- There shall be no change in fuel consumption, flue gas emission and process gas emission.
- There shall be no change in Hazardous waste quantity / category.
- Unit shall sell out their hazardous waste to authorized end-users who is having authorization with valid CCA and rule 9 permission to receive this waste. Unit shall make MoU with such authorized end-users and submit MoU at time of application of CCA.
- All the efforts shall be made to send hazardous waste to cement industry for Co-processing first & there after it shall be disposed through other option.
- Unit shall follow spent solvent management guideline framed by board and shall make MoU with outside distillation units, if any. Also submit the prescribed forms as per guideline.
- There shall not be increase in pollution load due to proposed change in product mix.

Page 7 of 8

**Clean Gujarat Green Gujarat**

ISO-9001-2008 &amp; ISO-14001 - 2004 Certified Organisation

- i. There shall not be any change in plant building, equipments & machineries to manufacture the proposed new products after change in product mix.
  - j. In the case of submission of the false or misleading data, this CTE amendment will be forfeited immediately.
  - k. Unit shall manufacture cypermethrin based product i.e. 4S Zeta cypermethrin & f-2700 Zeta Cypermethrin from Cypermethrin with max. production of 150 MTPA.
  - l. When Cypermethrine (150 MTPA) and new product Deravitaves of Cypermethrin at 18 and 19 (150 MTPA) to be manufactured product other than cypermethrin at group 7 (total 150 MTPA) can not be manufactured.
3. **CONDITION UNDER THE WATER ACT:**
- 3.1 The condition No. 3.3 for Water Consumption under Water Act of the CCA order No: AWH-87335, issued vide letter no. GPCB/ ANK/ CCA-138(10)/ ID-15015/419991, dated 10/08/2017 is amended and shall now be read as under.
- a. Domestic: 50 KL/Day (Existing 50 KLD + Proposed Nil)
  - b. Industrial: 260.2 KL/Day (Existing 265 KLD - Proposed 4.8 KLD)
  - Total: 310.2 KL/Day (Existing 315 KLD - Proposed 4.8 KLD)**
- 3.2 The condition No. 3.1 & 3.2 for Wastewater Generation under Water Act of the CCA order No: AWH-87335, issued vide letter no. GPCB/ ANK/ CCA-138(10)/ ID-15015/419991, dated 10/08/2017 is amended and shall now be read as under.
- a. Domestic: 33.2 KL/Day (Existing 33.2 KLD + Proposed Nil)
  - b. Industrial: 71.2 KL/Day (Existing 85.91 KLD - Proposed 14.7 KLD)
  - Total: 104.4 KL/Day (Existing 119.11 KLD - Proposed 14.7 KLD)**
- 3.3 71.2 KLD treated effluent shall be discharged to NCTL by underground drainage line and 33.2 KLD domestic sewage shall be disposed off through septic tank/soak pit system as per previous CCA conditions.
4. All other Conditions of CCA order No: AWH-87335, issued vide letter no. GPCB/ ANK/ CCA-138(10)/ ID-15015/419991, dated 10/08/2017 shall remain unchanged.

For and on behalf of  
GUJARAT POLLUTION CONTROL BOARD

  
(A.V. SHAH)  
SR. ENVIRONMENT ENGINEER

EC to CTE Copy



**GUJARAT POLLUTION CONTROL BOARD**

PARYAVARAN BHAVAN  
Sector-10-A, Gandhinagar 382015  
Phone : (079) 23222425  
(079) 23222152  
Fax : (079) 23232154  
Website : www.gpcb.gov.in

**Application For CTE after EC**

File No : GPCB/ (PCB ID. - 15015)

To,  
M/s. Cheminova (India) Ltd. (Tech. Div.),  
241, ...  
City : Panoli,  
Dist : Ankleshwar,  
Taluka : Ankleshwar

Sub: Consent to Establish (After obtaining Environment Clearance) under Section 25 of Water Act 1974 and Section 21 of Air Act 1981.

Ref: (1) Your online application No. 176061 dated 07/05/2020

(1) Environment Clearance issued by Central Authority vide their letter no. IA-J-11011/85/2018-IA-II(I)  
Dated 25/11/2019

Sir,

Without prejudice to the powers of this Board under the Water (Prevention and Control of Pollution) Act-1974, the Air Act-1981 and the Environment (Protection) Act-1986 and without reducing your responsibilities under the said Acts in any way, this is to inform you that this Board grants Consent to Establish (After obtaining Environment Clearance) under Section 25 of Water Act 1974 and Section 21 of Air Act 1981 for manufacturing of products as mentioned into the Environment Clearance (EC) granted vide letter under reference no (2) above.

**Consent To Establish is Granted Subject To The Following Conditions: -**

- 1) The validity period of this CTE shall be Seven Years from the issue of this order.
- 2) Applicant shall strictly comply with all conditions stipulated by competent authority in the order of Environment Clearance issued vide letter under reference No. : 2 above.
- 3) The applicant shall however, not without the prior concern of the Board, Bring into use any new or altered outlet for the discharge of effluent or gaseous emission or sewage waste from the proposed industrial plant. The applicant is required to make applications to this Board for this purpose in the prescribed forms under the provisions of the water Act - 1974, the Air - 1981 and the Environment (Protection) Act - 1986.

For and on behalf of  
Gujarat Pollution Control Board

R.R.Vyas  
ROH Head - Ankleshwar

- \* This order is issued to 241, ... City : Panoli, Dist : Ankleshwar, Taluka : Ankleshwar (15015) for CTE amendment after obtaining EC.

**Specific Conditions along with EC to CTE order**

- 1) You shall maintain ZLD for entire project and surrender the membership alongwith physical connection of treated wastewater discharge to NCT
- 2) Comply with all provisions prevailing Dual discharge policy of the Board for Ankleshwar & Panoli Regions.
- 3) All other conditions mentioned in the EC granted to the unit shall be complied with.
- 4) MoUs shall be done with the actual users to whom all the Haz. Wastes are proposed to be sent. The actual user must have valid CCA of the Board and also shall have obtained permission under rule 9 of the Hazardous waste rules-2016.
- 5) Since your industry is located in critically polluted area, stringent environmental norms as per the NGT orders, shall be applicable

## Six Monthly EC Compliance Report

### Annexure 4 -Annual return- Form- 4 (2019-2020)



Cheminova India Limited  
Technical Division  
241, 242/2 & 241/F,  
GIDC Estate, Panoli - 394 116  
Dist. Bharuch (Gujarat)  
India.

Phone : +91 9033878613-17  
fmc.com / fmc.in  
CIN NO. U24100MH1986PLC038627

Date – 5<sup>th</sup> June 2020

Ref No. CHEMINOVA/TECH/06/05/2020/01

PCB ID -15015

To  
Member Secretary  
GUJARAT POLLUTION CONTROL BOARD  
PARYAVARAN BHAWAN  
SECTOR 10 –A, GANDHINAGAR – 382010.

Subject: Submission of Annual returns (Form –4)

Respected Sir,

We hereby declare that we have sent hazardous waste to different facilities during the period of April -2019 to March 2020 as per the Authorization for "The Hazardous and Other waste (Management & Transboundary Movement) Rule 2016.

This is as per the requirement of Rule – 6(5), 13(8), 16(6) and 20 (2).

We have also attached the details of disposal of used Batteries as per the Batteries (Management and Handling) Amendment Rules, 2010 and Disposal of E-Waste under E-waste (Management) Rules, 2016.

We have uploaded the attached Form -IV at. xgn site. The hard copies are enclosed with this letter.

Thanking You,

For CHEMINOVA INDIA LTD.

  
AUTHORISED SIGNATORY

End: As above

CC: Regional Office, Bharuch.

Enc. – Form -4



Regd. Office address:- TCG Financial Center, 2<sup>nd</sup> Floor, Plot No. C 53, Block G, Bandra Kurla Complex, Bandra (E), Mumbai - 400 098.



# Six Monthly EC Compliance Report

Cheminova India Ltd. Technical Division

FORM - 4  
[See rule 6(5), 13(8), 16(6) and 20 (2)]  
FORM FOR FILING ANNUAL RETURNS

PCB ID- 15015  
Year -2019-20

[To be submitted by occupier/operator of disposal facility to State Pollution Control Board / Pollution Control Committee by 30<sup>th</sup> June of every year for the preceding period April to March]

1.	Name and address of facility	M/S.CHEMINOVA INDIA LTD, (Technical Division) Plot No. – 241, 242/2 & 241/P, GIDC, PANOLI Dist.– Bharuch	
2.	Authorization No. and Date of issue	Consent order No.: AWH-87335 Date of Issue: 25/07/2017, CCA amendment dated AWH-104796 Date of issue: 10/12/2019 and valid up to 16/04/2022	
3.	Name of the authorized person and full address with telephone and fax number e-mail	Abhay Arora (Factory Manager) CHEMINOVA INDIA LTD, (Technical Division) Plot No. – 241, 242/2 & 241/P, GIDC, PANOLI Dist Bharuch Ph. No. 9033978613 to 17, email – <a href="mailto:Abhay.Arora@fmc.com">Abhay.Arora@fmc.com</a>	
4.	Production (Product wise) during year April 2019 to March 2020	Product	Quantity in (MT)
		TRIAZOLS: Paclobutrazol Technical	19.46
		NEONICOTINOID / AMIDE Thiodiprid Technical	14.500
		ISOXAZOLIDINONE (F-57091 Na)	19.988



YEAR - 2019-20  
PART-A

PCB ID- 15015

1	Total Quantity of Category wise waste generated	Hazardous waste generation	Category	Quantity Generated (in MT)
		1. Chemical sludge from waste water treatment (ETP Sludge)	35.3	25.440
		2. Chemical sludge from waste water treatment (Evaporation Salt)	35.3	21.295
		3. Used or spent oil	5.1	0.300
		4. Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes (a) Non-Recyclable Plastic / Contaminated liners, bags (b) Insulation waste (c) Asbestos sheet (d) Discarded containers	33.1	3.720 9.030 14.240 1.025
				Total Qty. = 28.015
		5. Process waste or Residue (a) For Incineration (b) For Co-process	29.1	100.140
		6. Incineration Ash / Flue gas cleaning Residue	37.2	Nil
		7. (a) Spent Solvents (c) Stripped solvent from stripper	20.2 20.2	Nil
		8. E- waste		0.310
		9. Battery		49 Nos.



# Six Monthly EC Compliance Report

YEAR – 2019-20

PCB ID- 15015

PCB ID- 1501

PART-A							
2	Total Quantity of Category wise waste Disposed	Hazardous waste	Category	To Disposal Facility Quantity (in MT)	To Recycler Quantity (in MT)	Others Quantity (in MT)	Remarks (Details enclose as)
		1. Chemical sludge from waste water treatment (ETP Sludge)	35.3	26.140	NIL	NIL	ANNEXURE- A
		2. Chemical sludge from waste water treatment (Evaporation Salt)	35.3	22.995	NIL	NIL	ANNEXURE- B
		3. Used or spent oil	5.1	NIL	0.300	NIL	ANNEXURE- C
		4. Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes (a) Non-Recyclable Plastic / Bag liner (b) Insulation waste (c) Asbestos sheet (d) Discarded containers	33.1	3.720 8.230 14,240 1.025 Total Qty.= 27.215	8.945	NIL	ANNEXURE- D
		5. Process waste or Residue (a) For Incineration (b) For Co-process	29.1 29.1	16.880 81.380 Total Qty.= 98.260	NIL	NIL	ANNEXURE- E
		6. Incineration Ash / Flue gas cleaning Residue	37.2	NIL	NIL	NIL	
		7. (a) Spent Solvents (b) Stripped solvent from stripper	20.2 20.2	NIL	NIL	NIL	
		8. E- waste		NIL	NIL	0.310	ANNEXURE- F
		9. Used Battery		NIL	NIL	49 Nos.	ANNEXURE- G
3	Quantity utilized in-house		NIL				

YEAR – 2019-20

PCB ID- 15015

PART-A

4	Total Quantity of Category wise waste storage at the end of the year	Hazardous waste	Category	Quantity (in MT)
		1. Chemical sludge from waste water treatment (ETP Sludge)	35.3	NIL
		2. Chemical sludge from waste water treatment (Evaporation Salt)	35.3	NIL
		3. Used or spent oil	5.1	NIL
		4. Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes (a) 1.Non-Recyclable Plastic / Bag liner (b) Insulation waste (c) Asbestos sheet (d) Discarded containers	33.1	NIL 0.800 NIL NIL
		5. Process waste or Residue (c) For Incineration (d) For Co-process	29.1 29.1	5.700
		6. Incineration Ash / Flue gas cleaning Residue	37.2	NIL
		7. (a) Spent Solvents (c) Stripped solvent from stripper	20.2 20.2	NIL
		8. E- waste		NIL
		9. Used Battery		NIL

# Six Monthly EC Compliance Report

PCB ID- 15015

## PART-A HAZARDOUS WASTE DISPOSAL DETAILS

ANNEXURE- A

(1) Chemical sludge from waste water treatment (ETP Sludge) Cat- 35.3 (Land filling)

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
May-19	31-May-19	895434	9.900	BEIL
Jan-20	28-Jan-20	1018707	16.240	BEIL
TOTAL QUANTITY (In MT)			26.140	

ANNEXURE- B

(2) Chemical sludge from waste water treatment (Evaporation Salt) Cat- 35.3 (Land filling)

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
May-19	31-May-19	895484	2.200	BEIL
Mar-20	20-Mar-20	1056184	20.795	Detrox
TOTAL QUANTITY (In MT)			22.995	

ANNEXURE- C

(3) Used or spent oil Cat-5.1 to Refiners

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Nov-19	26-Nov-19	970799	0.300	ABC Org.

ANNEXURE- D

(4) Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes Cat -33.1  
(a) Non-Recyclable Plastic /Contaminated liners, bags – To Land Filling

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Apr-19	25-Apr-19	874777	0.770	BEIL
Jun-19	6-Jun-19	897699	0.370	BEIL
Nov-19	27-Nov-19	971771	0.730	BEIL
Feb-20	13-Feb-20	1031025	1.850	BEIL
TOTAL QUANTITY (In MT)			3.720	



# Six Monthly EC Compliance Report

PCB ID- 15015

## PART-A

### HAZARDOUS WASTE DISPOSAL DETAILS

(5) Process waste or Residue Cat -29.1

(b) For Co-process

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	Disposed to
Apr-19	12-Apr-19	867342	4.540	RSPL
	15-Apr-19	869748	29.140	RSPL
May-19	6-May-19	881248	27.540	RSPL
Jun-19	26-Jun-19	906365	4.050	RSPL
Aug-19	8-Aug-19	923065	6.940	RSPL
Feb-20	24-Feb-20	1039163	9.170	RSPL
TOTAL QUANTITY (In MT)			81.38	

ANNEXURE- F

(6) E- waste

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	Disposed to
Aug-19	8-Aug-19	111	0.31	BEIL

ANNEXURE- G

(6) Used Battery

Month of disposal	Date of disposal	Invoice No.	Quantity Nos.	Disposed to
Oct -19	4-Oct -19	17680032	17	Green power solution
Mar-20	5- Mar-20	17680562	32	Green power solution

DATE: 5<sup>th</sup> June 2020

PLACE: Panoli

Signature of Factory manager /Occupier



## Six Monthly EC Compliance Report

### Annexure 5 -Environmental Statement – Form V (2019-2020)



Cheminova India Limited  
Technical Division  
241,242/2 & 241/P,  
GIDC Estate, Panoli - 394 116  
Dist. Bharuch (Gujarat)  
India.

Phone : +91 9033978613-17  
fmc.com / fmc.in  
CIN NO. U24100MH1986PLC038627

Ref No. CIL/ TECH/Form -V/2019-20/09/05/20

**ID: 15015**

Date: 5<sup>th</sup> September 2020

To  
The Member Secretary  
Gujarat Pollution Control Board,  
Paryavaran Bhawan, Sector-10-A,  
Gandhinagar-382010

SUB: - Submission of Environment Statement (FORM-V) for the Year 2019-20

Respected Sir,

Please find enclosed the duly filled Environment Statement in Form-V for the financial year 2019-2020.

Please acknowledge the same.

This is for your kind perusal please

Thanking you,

Yours faithfully,

Cheminova India Limited. Panoli.  
Technical Division

Enclosures: Form —V

CC To: Regional Officer, GPCB, Ankleshwar.



Regd. Office address:- TCG Financial Center, 2<sup>nd</sup> Floor, Plot No. C 53, Block G, Bandra Kurla Complex, Bandra (E), Mumbai - 400 098.

## Six Monthly EC Compliance Report

### FORM - V

(See Rule 14)

From :

**CHEMINOVA INDIA LTD.**  
**Technical Division Plot no 241 , 242/2 & 241/P,**  
**GIDC Panoli, Tal Ankleshwar Dist Bharuch**

To:

**Gujrat Pollution Control Board,**  
**Paryavaran Bhavan, sector 10 A**  
**Gandhinagar -382010**

Environmental Statement for the financial year ending the 31st March, 2020

#### PART - A

- |   |   |
|---|---|
| i) Name & address of the Owner/Occupier of the industry, operation or process | - Mr. Manoj Khanna<br>CHEMINOVA INDIA LTD.<br>Technical Division Plot no 241 , 242/2 & 241/P,<br>GIDC Panoli, Tal Ankleshwar Dist Bharuch |
| ii) Industry category   | - LSI   |
| Primary :- (STC Code)   | Not Applicable  |
| Secondary:- (SIC Code)  | Not Applicable  |
| iii) Production capacity: Units   | - ANNEXURE-I  |
| iv) Year of establishment   | - 1990  |
| v) Date of the last environmental statement submitted                         | - 24 Th July 2019   |

#### PART - B

##### Water & Raw Material Consumption

- |  |                          |
|--|--------------------------|
| i) Water consumption - M <sup>3</sup> /day | - 61 m <sup>3</sup> /day |
| Process                                    | - 5 m <sup>3</sup> /day  |
| Cooling                                    | - 23 m <sup>3</sup> /day |
| Domestic                                   | - 33 m <sup>3</sup> /day |

Name of products	Process water consumption per product output (Lit/ Kg)	
	During the previous financial year 2018-19 (1)	During the current financial year 2019-2020 (2)
(1) Azoxystrobin	6.44	0.00
(1) Technical, Paclo, TCP, ISOXA ZOLIDINONE (F-7091 Na)	48.75	35.70





## Six Monthly EC Compliance Report

### ii) Raw Material consumption

* Name of raw materials	Name of Products	Consumption of raw material per unit of output	
		During the previous	During the Current
		financial year 2018-19	financial year 2019-2020
1 HPAA	Azoxystrobin Technical	0.59448 Kg/ Kg	No Production
2 DCP		0.50913 Kg/ Kg	
3 2-Cyano Phenyl		0.419618 Kg/ Kg	
4 Dabco		0.007856 Kg/ Kg	
5 MDC		0.035584 Kg/ Kg	
6 MECH		0.599236 Kg/ Kg	
7 ACETONE		0.035584 Kg/ Kg	
8 K <sub>2</sub> CO <sub>3</sub>		0.866242 Kg/ Kg	
9 NaHCO <sub>3</sub>		0.07431 Kg/ Kg	
10 H <sub>2</sub> SO <sub>4</sub>		0.010191 Kg/ Kg	
11 Cellite		0.008493 Kg/ Kg	
12 DMF		1.1746 Kg/ Kg	
13 TiCl <sub>4</sub>		0.7672 Kg/ Kg	
14 Methyl formate		0.3141 Kg/ Kg	
15 TEA		0.0818 Kg/ Kg	
16 DMS		0.7963 Kg/ Kg	
17 TBAHA		0.000 Kg/ Kg	
18 MDC		0.0246 Kg/ Kg	
19 HCL		0.3128 Kg/ Kg	
20 Na <sub>2</sub> CO <sub>3</sub>		0.8878 Kg/ Kg	
21 MeOH		0.4691 Kg/ Kg	
22 2-CIT	TCP	0.6480 Kg/ Kg	0.5841 Kg/ Kg
23 NaOH FLAKES		0.2297 Kg/ Kg	0.2241 Kg/ Kg
24 CCMP		1.2267 Kg/ Kg	1.483 Kg/ Kg
25 MeOH		0.4784 Kg/ Kg	1.7008 Kg/ Kg
26 Paclobutone	Paclobutazole	1.089223 Kg/ Kg	1.0812 Kg/ Kg
27 NaBH <sub>4</sub>		0.042207 Kg/ Kg	0.0421 Kg/ Kg
28 30% HCl		0.151558 Kg/ Kg	0.1339 Kg/ Kg
29 Methanol		0.480845 Kg/ Kg	0.5930 Kg/ Kg
30 NaHCO <sub>3</sub>		0.031904 Kg/ Kg	0.0337 Kg/ Kg
31 FHBTf	Befubutamid	1.883 Kg/ Kg	No Production
32 BBM		2.028 Kg/ Kg	
33 K <sub>2</sub> CO <sub>3</sub>		1.884 Kg/ Kg	
34 Benzyl Amine		2.011 Kg/ Kg	
35 Sodium Isopropyl	ISOXAZOLIDINONE (P-57091 Na)	No Production	0.0028 Kg/ Kg
36 Hydroxylamine Sulfate			0.1566 Kg/ Kg
37 CPC			1.2961 Kg/ Kg
38 H <sub>2</sub> SO <sub>4</sub>			0.0835 Kg/ Kg
39 Toluene Ltr.			0.1423 Kg/ Kg
40 Sodium Hypochlorite, Sol.			1.0387 Kg/ Kg
41 Sodium Hydroxide			1.4877 Kg/ Kg

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



## Six Monthly EC Compliance Report

### PART-C

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

i) Pollutants		Quantity of pollutant/Concentrations of discharged pollutants in discharges (mass/day) TPD (mass/volume) mg/l except pH & Temp except pH & Temp.	Percentage of variation from prescribed standard with reasons
Average Flow 19.38 m <sup>3</sup> /d.			
a) <b>Water</b>		<b>TPD</b>	<b>mg/L</b>
	Total Dissolved Solid	0.0176	908
	Total Suspended Solid	0.0008	43
	Chemical Oxygen Demand	0.0009	45
	Biological Oxygen Demand	0.0002	13
	Ammonical Nitrogen	Nil	Nil
b) <b>Air</b>		<b>TPD</b>	<b>mg/Nm<sup>3</sup></b>
Azoxy Plant			
	Chlorine	0.0000	1.35
	Hydrogen Chloride	0.0000	2.95
Boiler			
	SPM	0.0018	15.75 mg/nm <sup>3</sup>
	SOx	0.0023	7.00 ppm
	NOx	0.0027	11.38 ppm

### PART-D

Hazardous Wastes

As specified under Hazardous Wastes/Management & Handling Rules, 1989)

Hazardous wastes		Total Quantity (kg)	
		During the previous financial year 2018-19	During the current financial year 2019-2020
a) <b>From Process</b>			
Category	Type of Waste		
	(1) Evaporation Salt	38,615	22995
	(2) Waste Used Oil	Nil	300
	(3) Discarded Container Bag Liner (Cat-3.3)	49,895	26190
	(4) Process waste ( Cat-29.1)	126,130	98260
	(5) Spent Solvents	187,797	Nil
	(6) Stripped Solvent	Nil	Nil
b) <b>From Pollution Control facilities</b>			
	ETP Sludge	94,970	26140





## Six Monthly EC Compliance Report

<b>PART-E</b>		
<b>Solid Wastes</b>		
	<b>Total Quantity in Kgs</b>	
	<b>During the previous financial year 2018-19</b>	<b>During the current financial year 2019-2020</b>
a) From Process	Nil	Nil
b) From Pollution Control facilities	Nil	Nil
c) 1) Quantity recycled or re-utilized within the unit	Nil	Nil
2) Sold		
<b>Discarded Container / Drum Cut sheet</b>	8945	1025
3) Disposed	Nil	Nil

### **PART-F**

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

KINDLY REFER ANNEXURE-2

### **PART-G**

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

(1) Strengthening of Plant Building and ITMP of all equipment were done

(2) Provision of LED Light and replacement of old Motor with energy efficient Motor

### **PART-H**

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

The plant has an Management System certified against the international Standard ISO-14001:2016 and OHSAS : 18001:2007 & ISO 9001:2016 which encompasses, inter alia, measures for cost reduction and conservation of resources

Continuous improvement is brought in as a part of the Environment Management System by undertaking objectives and targets for resource conservation.

### **PART-I**

Any other particulars for improving the quality of the environment.

(1) Cleaning and Strengthening of Aeration Tank was done to improve quantity of treated effluent

(2) Cleaning of Primary Settling Tank, Equalization Tank, Final Treated Effluent Storage Tank etc were done to increase the effective volume and retention period.

Date: 5-Sep-20



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

Name: Abhay Arora

Designation: Factory Manager

Address: CHEMINOVA INDIA Limited,  
TECHNICAL Division,  
Plot no 241 , 242/2 & 241/P,  
GIDC Estate, Panoli-394116.  
Dist. Bharuch, Gujarat.

# Six Monthly EC Compliance Report

## ANNEXURE -1

Sr No	Product / Raw Material	CCA Qty MT / Year
1	Natural gas based captive power plant	2.042
2	NEONICOTINOID/AMIDE: - IMI DACLOPRID TECH (I), THIACLOPRID (I), ACETAMIPRID (I), BEFLUBUTAMIDE TECH (H), FLUBENDAMIDE (I), CHLORANTRANILIPROLE (H), RYNEXAPYR (I), CYMOXANIL (F), THIFLUZAMIDE (F), CARBOXIN (F), CAPTAN (F), PRETILACHOR (H), PROPYZAMIDE (H), PITHOXAMIDE (H), SNA(INT.)-(2-AMINOSULFONYL-N,N-DIMETHYLNICOTINAMIDE), MST(INT.)-(2-METHOXYCARBONYL)THIOPHENE-3-SULFONAMIDE, FLUFENACET (H), BOSCAID (F) etc.	225
3	KETONE: -DIMETHOMORPH TECH. (F), CLETHODIM (H), BUTROXYDIM (H), SPIROMESIFEN (I), MISOTRIONE (H), SULCOTRIONE (H), IBP (INT.)-(ISOBUTYROPHENONE), PYMETROZINE (I) etc.	60
4	ETHER: - PROPARGITI TECH. (I), OXYFLUORFEN (H), ETOXAZOLE (I), EEA (INT.)-(2-ETHOXY ETHYL AMINE), S-CYNO-MPB (INT.) etc.	60
5	ESTER/PYRETHROID: - FENOXAPROP-P-ETHYL TECH. (H), BIFENAZATE (I), QUIZALOFOP-P-ET (H), CLODINAFOP-PPG (H), ACRINATHRIN (I), BIFENTHRIN (H), CYHALOTHRIN (H), GAMMA-CYHALOTHRIN (H), LAMDA-CYHALOTHRIN (I), CYPERMETHRIN (I), AND ITS ANALOGS, DELTA-METHRIN (I), ---CYFLUTHRIN (I) AND ITS ANALOGS, PERMETHRIN (I), BIOALLETHRIN (I), FENVALERATE (I), IMIPROTHRIN (I) etc.	150
6	CARBAMATE & THIO BASED PRODUCTS: - CARTAP.HCL TECH. (I), THIODICARB (I), THIOPHANATE-ME (F), PROPINEB (F), METIRAM (F), THIRAM (F), ISOPROTHIOLANE TECH (I), THIOCYCLAM (I), PROTHIOCARB (F), FLUTIANIL (F) etc.	100
7	QUATERNARY SALT AND OTHER SALTS, ACID BASED PRODUCTS: - MEPIQUAT CHLORIDE TECH. (H), CHLORMEQUAT CHLORIDE (I), OTHER SALTS: COPPER HYDROXIDE (BACTERICIDE,F), COPPER SULPHATE (ALGICIDE,F), etc., FLUPROPANATE-NA TECH (H) + HPAA (INT.)-(2-HYDROXYPHENYLACETIC ACID), BBA (INT.)-(BROMOBUTYRICACID), HPPA-INT.(2-(4-HYDROXYPHENOXY)PROPANATE), PICLORAM (H), DICAMBA (H), 2-CYANOPHENOL (INT.) etc.	58
8	TRIAZOLS: - 2,6 DICHLOROBENZOXAZOLE (INT.), ISOXAFLOTOLE (H), FLURASULAM (H), TDA (INT.) (TRIFLUOROMETHYLTHIAZOLE), FLUTRIAFOL TECH (F), PROTHICONAZOLE (F), SULFENTRAZONE (H), CARFENTRAZONE-ET (H) etc. TRIAZOLS: - FIPRONIL TECH (I), PROPICONAZOLE (F), EPOXYCONAZOLE (F), TEBUCONAZOLE (F), DIFENOCONAZOLE (F), HEXACONAZOLE (F), TRICYCLAZOLE (F), MYCLOBUTANIL (F), FLUSILAZOLE (F), PACLOBUTRAZOLE (PGR), THIAMETHOXAM (I), CHLOROTHALONIL (F), TRIADIMEFON (F), ISOXADIFEN-ET (SF)	400
9	HETEROCYCLIC (PYRIMIDINE/PYRIDINE/TRIAZINE): - BISPYRIBAC-NA TECH. (H), PIRIMICARB (H), PYRITHIOBAC-NA (H), FLUMETSULAM (H), CYPRODINIL (F), FLORASULAM (H), PENOXULAM (H), DCP (INT.)-(4,6-DICHLOROPYRIMIDINE), ACMP (INT.)-(2-AMINO-4-CHLORO-6-METHOXYPYRIMIDINE), IMAZETHAPYR TECH. (H), PYRIDALYL TECH (I), DIFLUFENICAN (H), CLOQUINTOCET-MEXYL(SF) HETEROCYCLIC (PYRIMIDINE/PYRIDINE/TRIAZINE): - FLUAZINAM (F), FENPYROXIMATE TECH. (H), METRIBUZIN (H), AMITRAZ (I), CLOFENTEZINE (I), MIMT (INT.)-(2-METHOXY-4-METHYL-6-METHYLAMINO-1,3,5-TRIAZINE, METOXYFENOZIDE (I), FENCHLORIM (SF), 2-HYDROXY-3,5,6-TRICHLOROPYRIDINE & ITS SODIUM SALT (INT. OF CHLORPYRIPHOS) etc.	185
10	Ryanxypyr	935
11	Isosazolidinone sodium solution	650
12	4S Zeta Cypermethrin F-2700 Zeta Cypermethrin	150



## Six Monthly EC Compliance Report

ANNEXURE -2

Sr, No.	Description of waste	Physical Form	Waste Category No.	Sp, Gr.	% Solids	Chemical Composition	Method of disposal
1	ETP Sludge	Solid	34.3	x	85	CaO- 65%, SiO <sub>2</sub> - 5%, water -15% Other calcium salt 15%	Collection, Disposal, Storage, Transportation, Disposal to TSDF (BEIL/SEPL)
2	Evaporation Salt	Solid	34.3	x	85	pH- 8 to 10, Moisture - 15 %, CV-450 Cal/ gm Salt 75% Other -10 %	Collection, Disposal, Storage, Transportation, Disposal to TSDF (BEIL/SEPL)
3	Used Oil	Liquid	5.1	0.94	N.A.	N.A.	Collection, Disposal, Storage, Transportation, Disposal by selling to Recycler, Refiner
4	Discarded Container , Liners	Solid	33.3	x	N.A.	MS, HDPE, GI,	Collection, Disposal, Storage, Transportation, Disposal by selling to Decontamination facility
5	Discarded Bags , Liners	Solid	33.3	x	N.A.	Plastic, Liner	Collection, Disposal, Storage, Transportation, Disposal to TSDF / CHWIF of (BEIL/SEPL)
6	Process Waste	Liquid	29.1	1.01	5 to 10	Stable Liquid waste pH - 5.5 to 8.5 Ash -2.5 to 4.5%, CV -2500 to 5000 Cal/gm	Collection, Disposal, Storage, Transportation, Disposal to CHWIF of (BEIL/SEPL/ RSPL ) Coprocess to cement industry
7	Incineration Ash	Solid	36.2	x	80	NaCl -6%, PO <sub>4</sub> - 10 %, SO <sub>4</sub> -8%, Na <sub>2</sub> SO <sub>4</sub> - 18%, Alkali as NaOH 20%	Collection, Disposal, Storage, Transportation, Disposal to TSDF (BEIL/SEPL)
8	Spent Solvent	Liquid	20.2	0.98	N.A.	MDC, Acetone, EA, EDC etc	Collection, Disposal, Storage, Transportation, Disposal to CHWIF of (BEIL/SEPL/ RSPL ) Sale out to authorized user having Rule-9

