

# **SIX MONTHLY EC COMPLIANCE REPORT**

**(April 2025 to September 2025)**



***For***

**M/s. Cheminova India Limited (Technical Division)**  
**(Manufacturing of Agrochemicals & their Intermediates)**  
Plot No. 241, 242/2, 241/P, 242/P,  
Notified GIDC Industrial Estate,  
Panoli- 394 116, Dist. Bharuch, State-Gujarat, India.

**Submitted to:**

**The Ministry of Environment, Forests & Climate Change**  
Scientist C, Integrated Regional Office,  
Aranya Bhavan, Sector-10,  
Gandhinagar – 382 010

## Six Monthly EC Compliance Report

### A - MONITORING REPORT - DATA SHEET

#### Monitoring the Implementation of Environmental Safeguards

Ministry of environment, Forests & Climate Change

Gandhinagar

PART - 1

From: 01.04.2025 to 30.09.2025

<b>No. CIL-Tech/ EC-Datasheet/02/2025</b>																											
1	Project Type: River-Valley / Mining/ Industry / Thermal / Nuclear / Other (Specify) : Agrochemicals & their Intermediates																										
2	Name of the Project : <b>Expansion Of Agrochemicals &amp; their Intermediates at Existing Unit M/s. Cheminova India Limited (Technical Division)</b>																										
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 242/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. Shashin A Dalal Plot No. 241, 242/2, 241/P & 242/P Notified GIDC Industrial Estate, Panoli- 394 116, Dist. Bharuch, State-Gujarat, India. Tel. 7486992966 / 02646618622																										
	b]. Address of Executive Project Engineer / Manager (with Pin code / Fax Number) : Mr. Shashin A Dalal Plot No. 241, 242/2, 241/P & 242/P Notified GIDC Industrial Estate, Panoli- 394 116, Dist. Bharuch, State-Gujarat, India. Tel. 7486992966 / 02646618622																										
6	Salient Features																										
	a]. Of the Project : As detailed below																										
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Components</th> <th style="text-align: left;">Proposed Scenario</th> </tr> </thead> <tbody> <tr> <td>EC No.</td> <td>IA-J-11011/85/2018-IA-II(I)</td> </tr> <tr> <td>Environmental Clearance accorded for -</td> <td><b>Product name attached in Annexure-1</b></td> </tr> <tr> <td>Total Power Requirement</td> <td>3500 KVA</td> </tr> <tr> <td>Source of Power</td> <td>Captive Power Plant &amp; DGVCL</td> </tr> <tr> <td>Fresh Water requirement</td> <td>261 KL/day</td> </tr> <tr> <td>Source of Water Supply</td> <td>GIDC water supply</td> </tr> <tr> <td>Wastewater Generation</td> <td>Total: 670.5 KL/day, Industrial: 631 KL/day, Domestic: 39.5 KL/day</td> </tr> <tr> <td>Process Emissions</td> <td>HCl, Chlorine, Acid mist, SO<sub>2</sub>, PM</td> </tr> <tr> <td>Flue Gas Emission</td> <td>Sox, Nox, PM</td> </tr> <tr> <td>Fuel Type</td> <td>Natural Gas and H.S. D</td> </tr> <tr> <td>Fuel Requirement</td> <td>Natural Gas- 15500 Sm<sup>3</sup>/day, H.S.D.- 4320 l/day</td> </tr> <tr> <td>Man power</td> <td>Total: 200 (Company employee) + 500 (Contract employee)</td> </tr> </tbody> </table>	Components	Proposed Scenario	EC No.	IA-J-11011/85/2018-IA-II(I)	Environmental Clearance accorded for -	<b>Product name attached in Annexure-1</b>	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, Acid mist, SO <sub>2</sub> , PM	Flue Gas Emission	Sox, Nox, PM	Fuel Type	Natural Gas and H.S. D	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)
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## Six Monthly EC Compliance Report

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	For Air Environment Management <ul style="list-style-type: none"><li>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.</li><li>Work place monitoring to be carried out periodically to check fugitive emissions, if any.</li><li>To develop and maintain greenbelt, in and around the factory, for reducing the effect of air pollutants due to their deposition.</li><li>To follow proper loading and unloading practices to minimize dusting</li><li>To maintain proper record for the fuel consumption, start-up time and duration of boiler operation towards energy conservation</li></ul>	<ul style="list-style-type: none"><li>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.</li><li>Workplace monitoring is carried out inhouse and also periodically by Siddhi Green Excellence Pvt Ltd., Ankleshwar.</li><li>Unit has developed &amp; maintained greenbelt area inside and outside the factory.</li><li>Unit is having closed system for loading and unloading of chemicals.</li><li>Unit is maintaining records for the fuel consumption and duration of boiler operation towards energy conservation</li><li>Green steam outsourcing – Working with a third-party steam vendor (PR- Eco Energy Ltd), government agencies, Industrial Park authorities to develop infrastructure. steam generated using agro-waste</li></ul>		
3	For Water Environment Management <ul style="list-style-type: none"><li>To investigate possibilities of water reuse and recycling for reducing water consumption and wastewater generation</li><li>Records of water consumption, effluent generation, effluent discharge, water characteristics, treated and untreated effluent characteristics to be maintained.</li><li>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.</li><li>The effluent collection and discharge drainages, effluent handling and treatment systems to be maintained and regularly monitored to prevent leakages or sudden break-down.</li><li>Proper house-keeping to be adopted to prevent spillages and contaminated surface runoff going to storm water drains.</li></ul>	<ul style="list-style-type: none"><li>Reuse and recycling options are being investigated together with feasibility of rainwater harvesting</li><li>Unit is maintaining records of water consumption, effluent generation, water characteristics, treated and untreated effluent characteristics.</li><li>The adequacy and efficiency of ETP is maintained well and the effluent is treated appropriately at all the stages.</li><li>The effluent collection, 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.</li><li>Good house-keeping is maintained to prevent spillages and contaminated surface runoff going to storm water drains.</li></ul>		
4	For Hazardous / Non-hazardous waste management <ul style="list-style-type: none"><li>Proper storage and handling arrangements in compliance to the conditions of authorization granted by SPCB.</li><li>Proper signboards to be provided at relevant places.</li></ul>	<ul style="list-style-type: none"><li>Unit has a dedicated storage areas for storage of all types of wastes. All the conditions stipulated in Authorization is complied.</li><li>Signboards are provided at relevant places.</li></ul>		

## Six Monthly EC Compliance Report

		<ul style="list-style-type: none"><li>All the necessary regulatory procedures as per the amended Hazardous Waste Management &amp; Handling Rules – 2003 to be followed and adhered with.</li><li>The transportation of hazardous waste to the TSDF Site to be as per the guidelines and accompanied with Form-9.</li><li>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.</li></ul>	<ul style="list-style-type: none"><li>Unit is following the same as per the amended Hazardous Waste Management &amp; Handling Rules – 2016</li><li>Unit is following guidelines for transportation of hazardous waste to TSDF &amp; CHWIF of M/s. BEIL/ Safe Enviro /SEPPIL etc. Transporter is provided Form -9 with each consignment as per authorization.</li><li>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 and annual returns of disposal of all the hazardous waste are submitted to GPCB in prescribed forms.</li></ul>																				
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>April 2025</td><td>164.719</td></tr><tr><td>May 2025</td><td>144.299</td></tr><tr><td>June 2025</td><td>132.937</td></tr><tr><td>July 2025</td><td>167.66</td></tr><tr><td>August 2025</td><td>188.738</td></tr><tr><td>September 2025</td><td>170.265</td></tr></table>	Production Details		Month	Quantity (MTM)	April 2025	164.719	May 2025	144.299	June 2025	132.937	July 2025	167.66	August 2025	188.738	September 2025	170.265				
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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 price reference	:	Rs. 365.92 crore (For Proposed Expansion only)																				
	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></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		
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3	Noise Pollution Control	0.5	0.5																				
4	Environment Monitoring & Management	90	98																				

## Six Monthly EC Compliance Report

	5	Occupational Health & Safety	20	25
	6	Green Belt development & maintenance	1.5	1.5
	7	Solid waste management	5243	100
	<b>TOTAL Planned</b>		<b>6815.0</b>	<b>1715</b>
	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		:	--
	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 Work is in progress
	a]. Date of commencement (Actual and / or planned).		:	August 2022
	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 Previous occasions, (if applicable)		:	20/08/2025 (GPCB Officers- Regional Office)
	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.)		:	--

## Six Monthly EC Compliance Report

### Annexure 1 -Compliance report of Environmental Clearance

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																			
SN	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).				As per EC, Total plot area 40476.94 sqm located at Plot Nos. 241, 242/2,241/P. Now, unit has amalgamation of plots in GIDC. After Amalgamation, Total Plot area will be 60566.94 sqm and plot nos.241P + 241-242/2, 242-P. Unit will not use additional plot for manufacturing activity and shall only use to support the main operation. (Offices, Engineering store, canteen, etc).														
3	The details of products are as under: -				Complied.														
	SN	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	---	800TPA														
	2.	STROBILURIN: - AZOXYSTROBIN TECH. (F), DES-METHOXYAZOXY (DMA) (INT.) KRESOXIM METHYL (F), FLOUXASTROBIN (F), PYRACLOSTROBIN (F).	1200 TPA	---	1200 TPA														
	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-DIMETHYLNICOTINAMIDE), MST(INT.), (2-METHOXYCARBONYL) THIOPHENE-3-SULFONAMIDE), FLUFENACET (H), BOSCALID (F) etc.	225 TPA	---	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	---	60 TPA														
	5.	ETHER: - PROPARGITE TECH. (I), OXYFLUORFEN (H), ETOXAZOLE (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), 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.	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														
					Production data as per existing CTO is as below:														
					Production of FMC-57091 / ISOXAZOLIDINONE														
					<table><tr><th>Month</th><th>Quantity (MT/Month)</th></tr><tr><td>April 2025</td><td>164.719</td></tr><tr><td>May 2025</td><td>144.299</td></tr><tr><td>June 2025</td><td>132.937</td></tr><tr><td>July 2025</td><td>167.66</td></tr><tr><td>August 2025</td><td>188.738</td></tr><tr><td>September 2025</td><td>170.265</td></tr></table>	Month	Quantity (MT/Month)	April 2025	164.719	May 2025	144.299	June 2025	132.937	July 2025	167.66	August 2025	188.738	September 2025	170.265
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					Since the captive power plant is inefficient, company have decided to remove it, whenever required it will be installed.														

## 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						
SN	Conditions	Compliance Status				
10.	TRIAZOLS: - 2,6-DICHLOROBENZOXAZOLE (INT.), ISOXAFLUTOLE (H), FLURASULAM (H), TDA (INT.) (TRIFLUOROMETHYLTHIAZADIAZOLE), FLUTRIAFOL TECH (F), PROTHICONAZOLE (F), SULFENTRAZONE (H), CARFENTRAZONE-ET (H) etc.	400 TPA	---	400 TPA		
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)		---			
12.	HETEROCYCLIC (PYRIMIDINE/PYRIDINE/TRIAZINE): - BISPYRIBAC-NA TECH. (H), PIRIMICARB (I), PYRITHIAC-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		
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		
23.	SULFENTRAZONE 2,4- DICHLORO/ 2,4- DICHLOROPHENYL-4-(DIFLOROMETHYL) TRIAZOLONE	---	1500	1500		
24.	<b>Total</b>	<b>3533</b>	<b>12050</b>	<b>15583</b>		
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.				Photographs of greenbelt area attached as 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


SN	Conditions	Compliance Status
	  	
	  	



## 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

SN	Conditions	Compliance Status																								
																										
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.	Unit is located in Panoli Notified GIDC Industrial Estate.																								
6.	<p>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.</p> <p>Industrial effluent of 670 cum/day will be treated through Effluent Treatment Plant having Primary, Secondary &amp; Tertiary Treatments, MEE and RO &amp; 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.</p> <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>	<p>Total GIDC water consumption data as per existing CTO is as below:</p> <table><tr><th>Month</th><th>Quantity KL/Month</th><th>Limit as per CC&amp;A</th></tr><tr><td>April 2025</td><td>4142</td><td rowspan="6">679 KL/ Day</td></tr><tr><td>May 2025</td><td>2920</td></tr><tr><td>June 2025</td><td>1697</td></tr><tr><td>July 2025</td><td>786</td></tr><tr><td>August 2025</td><td>1470</td></tr><tr><td>September 2025</td><td>1266</td></tr></table> <p>All the Industrial wastewater is treated through Effluent Treatment Plant, MEE and R.O. plant and recycled to process. There is no discharge of treated /untreated wastewater outside the unit. Zero Liquid Discharge is ensured:</p> <table><tr><th>Month</th><th>W.W. in RO</th><th>W.W. in STP</th><th>Limit as per CC&amp;A</th></tr><tr><td></td><td></td><td></td><td></td></tr></table>	Month	Quantity KL/Month	Limit as per CC&A	April 2025	4142	679 KL/ Day	May 2025	2920	June 2025	1697	July 2025	786	August 2025	1470	September 2025	1266	Month	W.W. in RO	W.W. in STP	Limit as per CC&A				
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## 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					
SN	Conditions	Compliance Status			
			Quantity KL/Month		
		April 25	464	265	Industrial Wastewater is 451 KLD & Domestic Wastewater is 39.5 KLD
		May 25	332	437	
		June 25	155	623	
		July 25	873	647	
		August 25	692	477	
		September 25	543	365	
		Fuel Consumption of existing utilities as per CC&A is given as below:			
		Month	Quantity NM3		
		April 2025	1307		
		May 2025	10826		
		June 2025	4769		
July 2025	1102				
August 2025	1029				
September 2025	970				
Unit has removed WHRB- Captive power plant and use stack in DG Set. Also unit has informed to the GPCB.					

## Six Monthly EC Compliance Report



o/c

Cheminova India Limited  
Technical Division  
241,242/2 & 241/P  
GIDC Estate, Panoli - 394 116  
Dist. Bharuch (Gujarat)  
India.  
cheminova.panoli@fmc.com  
Phone : 02646 - 618600/1/2, 618701  
Mo. : +91 97252 02657  
fmc.com/ag.fmc.com/in  
CIN NO. U24100MH1986PLC038627

ENV/Tech/GPCB/DG/25/10/2024/01

Date -October 25 -2024  
Company ID No. 15015

To,

The Regional Officer,

Gujarat Pollution Control Board,

GIDC Estate, Ankleshwar.

SUB: Stack of 1500 KVA D.G. Set

Dear Sir,

As we have decommissioned our CPP Plant, The stack of the same CPP Plant of 30 Meter Height ( Sr. No. 1 as per CCA ) is used and in very good condition. This is for your information that this 30 Meter stack shall be connected to 1500 KVA D.G set as given in CCA ( Sr. No.4)

This is for your information and suggestion if any.

Thanking you,

Yours faithfully,

For CHEMINOVA INDIA LTD.,

Technical Division

AUTHORIZED SIGNATORY

RECEIVED  
G. P. C. Board  
R. O. Ankleshwar  
Date 24/10/24

Encl. - CCA copy & copy of information for Removal of CPP Plant

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.



Cheminova India Limited  
Technical Division  
241,242/2 & 241/P  
GIDC Estate, Panoli - 394 116  
Dist. Bharuch (Gujarat)  
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cheminova.panoli@fmc.com  
Phone : 02646 - 618600/1/2, 618701  
Mo. : +91 97252 02657  
fmc.com / fmc.in  
CIN NO. U24100MH1986PLC038627

Ref No: CIL/Tech/CPP/ /2024/19/01/01

Date: 19<sup>th</sup> January 2024  
PCB ID: 15015

To,

The Regional Officer

Gujarat Pollution Control Board,

J27P+2MH, 3rd S Rd, Ankleshwar

GIDC, Ankleshwar, Gujarat 393001

Sub: Regarding removal of Captive Power Plant from the Site.

Respected Sir,

With reference to above we would like to inform that we have valid consent for operation of Captive Power Plant, (CPP Plant). We are not operating the Captive Power Plant due to low efficiency. We have intimated the same to the office of the Chief Electrical Inspector, Udyog Bhavan Gandhinagar. They have granted the permission for dismantling and removal from site. Hence, we hereby inform your good office regarding the same. Kindly consider the same and oblige.

This is for your information.

Thanking you,

Yours faithfully,

Factory Manager

Cheminova India Limited.

Technical Division, Plot No. 241,242/2 & 241/P, G.I.D.C. Estate, Panoli.

RECEIVED  
G. P. C. Board  
R. O. Ankleshwar  
Date 26/1/24

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

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		
SN	Conditions	Compliance Status
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.	As per granted EC Copy under category A of item 5(b) Pesticides industry and Pesticide specific intermediates of the Schedule to the Environment Impact Assessment Notification, 2006.
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.	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 Notified GIDC Industrial Estate, Panoli- 394 116, Dist. Bharuch.
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 complies 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 <b>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)</b> , 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 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.	Consent to Establish has been granted by GPCB, Outward No. 15867 on dated 4 <sup>th</sup> June 2020.CTO Amendment granted by GPCB on 13 <sup>th</sup> September 2023 having AWH – 128040 with a validity upto 16 <sup>th</sup> -April-2027.
	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 has obtained all necessary permission as under Water (Prevention and control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act 1981 from the State Pollution Control Board.

## 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																
SN	Conditions	Compliance Status														
	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 has obtained all necessary permission under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) rules, 2016 from the GPCB.														
	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 has obtained CC&A Amendment and Zero Liquid Discharge is ensured and no waste/treated water is 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.	Noted. National Emission Standards are complied.														
	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 banned pesticides/chemicals 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.	All the pollution control devices are provided as stated in consent issued by State Pollution Control Board to comply with the gas emissions standard. The gaseous emissions are dispersed through stack of adequate height as prescribed in consent.														
	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.	Effective systems are in place to meet solvent management plan guidelines.														
	ix. Total fresh water requirement shall not excess 261 cum/day to be met from GIDC water supply. Prior permission in this regard shall be obtained from the concerned regulatory authority.	Complied. Fresh water consumption data is as below: <table><tr><th>Month</th><th>Quantity KL/Month</th></tr><tr><td>April 2025</td><td>4142</td></tr><tr><td>May 2025</td><td>2920</td></tr><tr><td>June 2025</td><td>1697</td></tr><tr><td>July 2025</td><td>786</td></tr><tr><td>August 2025</td><td>1470</td></tr><tr><td>September 2025</td><td>1266</td></tr></table>	Month	Quantity KL/Month	April 2025	4142	May 2025	2920	June 2025	1697	July 2025	786	August 2025	1470	September 2025	1266
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## Six Monthly EC Compliance Report

<b>Compliance Report for Stipulated Conditions of Environmental Clearance</b> EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25 <sup>th</sup> November 2019		
<b>SN</b>	<b>Conditions</b>	<b>Compliance Status</b>
	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 provided in such a way that process effluent / any wastewater is not getting mixed.
	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.	All the Hazardous chemicals are stored in tanks, tank farms, drums, carboys etc. Flame arresters are provided at all the tanks. Solvent transfer is done through pumps in closed loop system.
	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.	Process organic residue and spent carbon, ETP sludge, process inorganic and evaporation salt is being disposed as per CCA guidelines/conditions.
	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.	Unit stores all the hazardous chemicals based on the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. Also all safety measures are taken for transportation of Hazardous chemicals and guidelines of the Motor Vehicle Act, 1989 are complied.
	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.	Unit follows all the waste minimization measures.
	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 19873 sq. m. (~33%) of total plot area within plan premises. An Additional 7500 sq.m (12 %) area provided outside premises in GIDC which is developed and total green belt area is 45%.
	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. Fund allocation for 2022 CER/CSR jobs for both Technical & Intermediate are as follow: <ul style="list-style-type: none"> <li>• Providing skill training and support for women empowerment to Kharod village = 6.50 lakh = completed in June2022</li> <li>• Providing skill training and support for women empowerment to Sanjali village = 6.50 lakh = completed in June2022</li> </ul>



## 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																																																														
SN	Conditions	Compliance Status																																																												
		<ul style="list-style-type: none"> <li>Providing streetlight and solar roof top to Umarwada village as sustainable solution = 25 lakh = Completed in May2022</li> <li>Sponsorship of Cricket tournament trophy to Kharod village to encourage sports activities in young generation= 1.15 lakh = completed in June22</li> <li>Total Fund Allocation In CER= 39.15 Lakh</li> </ul>																																																												
xvii.	Safety and visual reality training shall be provided to employees.	In house-training programs are conducted on monthly basis for SOPs and safety as per annual plan. Details as below:																																																												
	Details of the in-House training programs as per EHS Standard are as follow. <table border="1"> <thead> <tr> <th>Sr. No.</th><th>Standard</th><th>Program Name</th></tr> </thead> <tbody> <tr><td>1</td><td>Hot Work Standard</td><td>EHS Panoli Hot Work Standard</td></tr> <tr><td>2</td><td>Confined Space Entry Standard</td><td>EHS Panoli Confined Space Entry Standard</td></tr> <tr><td>3</td><td>Electrical Safety Standard</td><td>EHS Panoli Electrical Safety Standard</td></tr> <tr><td>4</td><td>Energy Isolation, Lockout/Tagout Standard</td><td>EHS Panoli Energy Isolation, Lockout/Tagout Standard</td></tr> <tr><td>5</td><td>Elevated Work Standard</td><td>EHS Panoli Elevated Work Standard</td></tr> <tr><td>6</td><td>Line Breaking &amp; Equipment Opening Standard</td><td>EHS Panoli Line Breaking &amp; Equipment Opening Standard</td></tr> <tr><td>7</td><td>Hazard Assessment &amp; Mitigation Standard</td><td>EHS Panoli Hazard Assessment &amp; Mitigation Standard</td></tr> <tr><td>8</td><td>Hose Management Standard</td><td>EHS Panoli Hose Management Standard</td></tr> <tr><td>9</td><td>Decommissioning</td><td>EHS Panoli Decommissioning</td></tr> <tr><td>10</td><td>MSDS Standard</td><td>EHS Panoli MSDS Standard</td></tr> <tr><td>11</td><td>Glassware Handling Standard</td><td>EHS Panoli Glassware Handling Standard</td></tr> <tr><td>12</td><td>Chemical Storage Standard</td><td>EHS Panoli Chemical Storage Standard</td></tr> <tr><td>13</td><td>Fume Hood Standard</td><td>EHS Panoli Fume Hood Standard</td></tr> <tr><td>14</td><td>Open Blade Standard</td><td>EHS Panoli Open Blade Standard</td></tr> <tr><td>15</td><td>Personal Protective Equipment &amp; Glove Use program</td><td>EHS Panoli Personal Protective Equipment &amp; Glove Use program</td></tr> <tr><td>16</td><td>Contract safety Standard</td><td>EHS Panoli Contract safety Standard</td></tr> <tr><td>17</td><td>Breathing Air Standard</td><td>EHS Panoli Breathing Air Standard</td></tr> <tr><td>18</td><td>Event Reporting standard</td><td>EHS Panoli Event Reporting standard</td></tr> <tr><td>19</td><td>Effective Injury And Illness Case Management</td><td>EHS Panoli Effective Injury And Illness Case Management</td></tr> </tbody> </table>		Sr. No.	Standard	Program Name	1	Hot Work Standard	EHS Panoli Hot Work Standard	2	Confined Space Entry Standard	EHS Panoli Confined Space Entry Standard	3	Electrical Safety Standard	EHS Panoli Electrical Safety Standard	4	Energy Isolation, Lockout/Tagout Standard	EHS Panoli Energy Isolation, Lockout/Tagout Standard	5	Elevated Work Standard	EHS Panoli Elevated Work Standard	6	Line Breaking & Equipment Opening Standard	EHS Panoli Line Breaking & Equipment Opening Standard	7	Hazard Assessment & Mitigation Standard	EHS Panoli Hazard Assessment & Mitigation Standard	8	Hose Management Standard	EHS Panoli Hose Management Standard	9	Decommissioning	EHS Panoli Decommissioning	10	MSDS Standard	EHS Panoli MSDS Standard	11	Glassware Handling Standard	EHS Panoli Glassware Handling Standard	12	Chemical Storage Standard	EHS Panoli Chemical Storage Standard	13	Fume Hood Standard	EHS Panoli Fume Hood Standard	14	Open Blade Standard	EHS Panoli Open Blade Standard	15	Personal Protective Equipment & Glove Use program	EHS Panoli Personal Protective Equipment & Glove Use program	16	Contract safety Standard	EHS Panoli Contract safety Standard	17	Breathing Air Standard	EHS Panoli Breathing Air Standard	18	Event Reporting standard	EHS Panoli Event Reporting standard	19	Effective Injury And Illness Case Management	EHS Panoli Effective Injury And Illness Case Management
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## 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

SN	Conditions	Compliance Status
20	Ground Transportation Safety Standard	EHS Panoli Ground Transportation Safety Standard
21	PSM Standard	EHS Panoli PSM Standard
22	Emergency response plan	EHS Panoli Emergency response plan

#### Photographs of trainings:





## 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

SN	Conditions	Compliance Status
	  	<p><b>Fire watcher on job Training</b></p> <p><b>Fire Watch Training</b></p> <p><b>What is a Fire Watcher?</b></p>
	  	
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.	Presently, unit has appointed third party for carrying out regular monitoring of Flue gas analysis. Analysis reports for reference is attached below: Emissions are within specified limits. Acoustic enclosure is provided to DG set for controlling the noise pollution.

## 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

SN	Conditions	Compliance Status
	<p>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.</p>	<p>All the arrangements are made for protection of possible fire hazard during manufacturing process and material handling; The Fire hydrant system and fire extinguisher are available in all the areas and safe practices are adopted for handling and processing of flammable materials.</p>
		

## Six Monthly EC Compliance Report


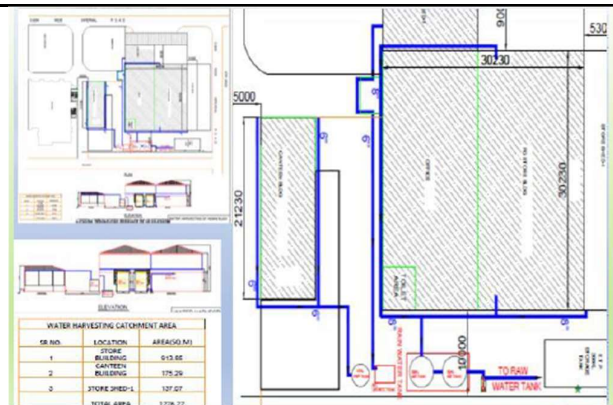
<b>Compliance Report for Stipulated Conditions of Environmental Clearance</b> EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25 <sup>th</sup> November 2019		
<b>SN</b>	<b>Conditions</b>	<b>Compliance Status</b>
	xx. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Pre-employment and regular medical checkup of company employees as well as contract employees is done by Factory Medical Officer and records are maintained.
	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.	Since Natural Gas is used for boiler operations, Continuous online (24×7) monitoring system for stack emissions is not recommended. However, Regular Monitoring of flue gas analysis is done by Siddhi Green Excellence Pvt. Ltd., Ankleshwar. Since unit is Zero Liquid Discharge, the online continuous monitoring of effluent, web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises are provided.
	xxii. Mitigation measures suggested during process safety and risk assessment studies shall be undertaken accordingly.	Unit carry out detailed process safety and risk assessment study in the operational phase and mitigation measures of the same are implemented.
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.	Further expansion or modifications shall be done only after obtaining prior approval of the Ministry of Environment, Forest and Climate Change.
	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.	Ambient Air quality monitoring is done by Third party recognized laboratory and locations are decided in consultation with SPCB considering the upwind and downwind directions and 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.	Unit 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.	Photographs of Rain water harvesting arrangements are as given 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

SN	Conditions	Compliance Status																		
	<div><p>Conduits and channels were laid to collect rainwater from roof top of buildings and route it to the collection tanks from where it is transferred to main raw water tanks to be used for site routine usage needs.</p></div>	<table><tr><th colspan="2">Details of Roof top rain water harvesting.</th></tr><tr><th>Month</th><th>Rainwater (KL)</th></tr><tr><td>April 2025</td><td>0</td></tr><tr><td>May 2025</td><td>318</td></tr><tr><td>June 2025</td><td>1187</td></tr><tr><td>July 2025</td><td>1182</td></tr><tr><td>August 2025</td><td>1204</td></tr><tr><td>September 2025</td><td>1224</td></tr><tr><td><b>Total</b></td><td><b>5115</b></td></tr></table>	Details of Roof top rain water harvesting.		Month	Rainwater (KL)	April 2025	0	May 2025	318	June 2025	1187	July 2025	1182	August 2025	1204	September 2025	1224	<b>Total</b>	<b>5115</b>
Details of Roof top rain water harvesting.																				
Month	Rainwater (KL)																			
April 2025	0																			
May 2025	318																			
June 2025	1187																			
July 2025	1182																			
August 2025	1204																			
September 2025	1224																			
<b>Total</b>	<b>5115</b>																			
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.																		
VIII.	The company shall also comply with all the environmental protection measures and safeguards proposed in 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.	Noted. Unit adhere and complies all the given conditions.																		
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 undertake Corporate social activities for the betterment of surrounding villages.																		
X.	The company undertakes eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Unit carry out CER activities as per the plan mentioned in the EIA report.																		
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.	Unit has sent copy of the clearance letter to Panchayat, Zilla Parishad/ Municipal Corporation, Urban local Body and the local NGO.																		
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	Six monthly compliance of Environmental Clearance conditions including results of monitored data are uploaded on PARIVESH portal and posted on the website of the company.																		



## 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										
SN	Conditions	Compliance Status								
	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 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 attached as <b>Annexure 2</b> .								
	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:								
	<div><div><p style="text-align: center;"><b>PUBLIC NOTICE</b> <b>ENVIRONMENTAL CLEARANCE</b></p><p>It is hereby informed that the Ministry of Environment, Forest and Climate Change, Indra Paryavaran Bhavan, Jorbagh Road, New Delhi, has accorded Environmental Clearance for proposed expansion in existing premises for Agrochemicals and their Intermediates manufacturing unit of M/s.Cheminova India Limited (Technical Division) at Plot nos. 241/242/241/P, Notified GIDC Industrial Estate, Panoli- 394 116, Ta. Ankleshwar Dist Bharuch, State: Gujarat. Vide letter dated 25/11/2019 [F.NO. IA-J-11011/85/2018-IA-II(I)] under the provision of EIA Notification dated 14<sup>th</sup> September 2006.</p><p>Copies of Clearance Letter are available on Website of MoEF&amp;CC (PARIVESH)- <a href="http://moef.nic.in">http://moef.nic.in</a></p><p>Dated 26/11/2019 Authorized Signatory-SD-</p></div><div><table><tr><th>મોદર સૂચના</th><th>પર્યાવરણીય મંજૂરી</th></tr><tr><td colspan="2">આ સાથે જણાવવામાં આવે છે કે મિનિસ્ટ્રી ઓફ એન્વાયરમેન્ટ, ફોરેસ્ટ અને ક્લાઇમેન્ટ ચેન્જ દ્વારા મે. કેમિનોવા ઇન્ડિયા લિમિટેડ (ટેકનિકલ ડિવિઝન) પ્લોટ નંબર - ૨૪૧, ૨૪૨/૨, ૨૪૧/૫, નોટીફાઇડ ગ્રા.આઈ.ડી.સી. ઇન્ડસ્ટ્રીયલ એસ્ટેટ, પાનોલી-૩૯૪ ૧૧૬, તાલુકા: અંકલેશ્વર, જિલ્લો: ભરૂચ, સ્ટેટ:ગુજરાત ખાતે હાલનું એકમ સૂચિત એગ્રોકેમિકલ્સ તથા તેના ઇન્ટરમીડિયેટ્સ ના વિસ્તરણ માટેની પર્યાવરણીય મંજૂરી નવેમ્બર, ૨૫, ૨૦૧૯ ના પત્ર દ્વારા [ફાઇલ ક્રમાંક IA-J-11011/85/2018-IA-II(I)] ઇ.આઈ.એ. નોટિફિકેશન તારીખ ૧૪ સપ્ટેમ્બર ૨૦૦૬ની જોગવાઈ હેઠળ આપેલ છે.</td></tr><tr><td colspan="2">પર્યાવરણીય મંજૂરીના પત્રની નકલ MoEF&amp;CC (PARIVESH) ની વેબસાઇટ (<a href="http://moef.nic.in">http://moef.nic.in</a>) ઉપર ઉપલબ્ધ છે.</td></tr><tr><td>તારીખ: ૨૬/૧૧/૨૦૧૯</td><td>સહી:--</td></tr></table></div></div>		મોદર સૂચના	પર્યાવરણીય મંજૂરી	આ સાથે જણાવવામાં આવે છે કે મિનિસ્ટ્રી ઓફ એન્વાયરમેન્ટ, ફોરેસ્ટ અને ક્લાઇમેન્ટ ચેન્જ દ્વારા મે. કેમિનોવા ઇન્ડિયા લિમિટેડ (ટેકનિકલ ડિવિઝન) પ્લોટ નંબર - ૨૪૧, ૨૪૨/૨, ૨૪૧/૫, નોટીફાઇડ ગ્રા.આઈ.ડી.સી. ઇન્ડસ્ટ્રીયલ એસ્ટેટ, પાનોલી-૩૯૪ ૧૧૬, તાલુકા: અંકલેશ્વર, જિલ્લો: ભરૂચ, સ્ટેટ:ગુજરાત ખાતે હાલનું એકમ સૂચિત એગ્રોકેમિકલ્સ તથા તેના ઇન્ટરમીડિયેટ્સ ના વિસ્તરણ માટેની પર્યાવરણીય મંજૂરી નવેમ્બર, ૨૫, ૨૦૧૯ ના પત્ર દ્વારા [ફાઇલ ક્રમાંક IA-J-11011/85/2018-IA-II(I)] ઇ.આઈ.એ. નોટિફિકેશન તારીખ ૧૪ સપ્ટેમ્બર ૨૦૦૬ની જોગવાઈ હેઠળ આપેલ છે.		પર્યાવરણીય મંજૂરીના પત્રની નકલ MoEF&CC (PARIVESH) ની વેબસાઇટ ( <a href="http://moef.nic.in">http://moef.nic.in</a> ) ઉપર ઉપલબ્ધ છે.		તારીખ: ૨૬/૧૧/૨૦૧૯	સહી:--
મોદર સૂચના	પર્યાવરણીય મંજૂરી									
આ સાથે જણાવવામાં આવે છે કે મિનિસ્ટ્રી ઓફ એન્વાયરમેન્ટ, ફોરેસ્ટ અને ક્લાઇમેન્ટ ચેન્જ દ્વારા મે. કેમિનોવા ઇન્ડિયા લિમિટેડ (ટેકનિકલ ડિવિઝન) પ્લોટ નંબર - ૨૪૧, ૨૪૨/૨, ૨૪૧/૫, નોટીફાઇડ ગ્રા.આઈ.ડી.સી. ઇન્ડસ્ટ્રીયલ એસ્ટેટ, પાનોલી-૩૯૪ ૧૧૬, તાલુકા: અંકલેશ્વર, જિલ્લો: ભરૂચ, સ્ટેટ:ગુજરાત ખાતે હાલનું એકમ સૂચિત એગ્રોકેમિકલ્સ તથા તેના ઇન્ટરમીડિયેટ્સ ના વિસ્તરણ માટેની પર્યાવરણીય મંજૂરી નવેમ્બર, ૨૫, ૨૦૧૯ ના પત્ર દ્વારા [ફાઇલ ક્રમાંક IA-J-11011/85/2018-IA-II(I)] ઇ.આઈ.એ. નોટિફિકેશન તારીખ ૧૪ સપ્ટેમ્બર ૨૦૦૬ની જોગવાઈ હેઠળ આપેલ છે.										
પર્યાવરણીય મંજૂરીના પત્રની નકલ MoEF&CC (PARIVESH) ની વેબસાઇટ ( <a href="http://moef.nic.in">http://moef.nic.in</a> ) ઉપર ઉપલબ્ધ છે.										
તારીખ: ૨૬/૧૧/૨૦૧૯	સહી:--									
	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.	Unit will submit the relevant details time to time to the concerned authority.								
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 comply with the additional conditions if stipulated by the ministry.								
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.	Unit will not conceal factual data and false data shall not be submitted. Unit does not support such type of mal practice.								

## 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		
SN	Conditions	Compliance Status
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.	Unit will keep this stipulated condition in mind.
15.	The above conditions will be enforced, <i>inter alia</i> 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.	Unit is complying all the conditions stipulated in EC letter regarding the construction phase and also comply the conditions regarding operational phase after obtaining CTO from board.
16.	This issue with approval of the competent authority.	Unit ensures to comply with all the stipulated conditions approved by the competent authority in EC letter.

Ref No. CIL/ TECH/Form -V/2024-25/09/04/25

**ID: 15015**

Date: 4<sup>Th</sup> September 2025

To

The Member Secretary

Gujarat Pollution Control Board,

Paryavaran Bhawan, Sector-10-A,

Ghandhinagar-382010

SUB: - Submission of Environment Statement (FORM-V) for the Year 2024-25

Respected Sir,

Please find enclosed the duly filled Environment Statement in Form-V for the financial year  
2024-25

Please acknowledge the same.

This is for your kind perusal please

Thanking you,

Yours faithfully,

  
  
Cheminova India Limited. Panoli.  
Technical Division  
Plot No. 241, 242/2 & 241/P  
G.I.D.C. Estate, Panoli.



Enclosures: Form —V

CC To: Regional Officer, GPCB, Ankleshwar.

**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, 2025

**PART -A**

- i) Name & address of the Owner/Occupier of the industry, operation or process - **Mr.Manoj Khanna**  
CHEMINOVA INDIA LTD.  
Technical Division Plot no 241 , 242/2 & 241/P,  
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-1
- iv) Year of establishment - 1990
- v) Date of the last environmental statement submitted - 5 Th September 2024

**PART -B****Water & Raw Material Consumption**

- i) Water consumption - M<sup>3</sup>/day - 73 m3/day
- Process - 12 m3/day
- Cooling - 19 m3/day
- Domestic - 42 m3/day

Process water consumption per product output (Lit./ Kg)		
Name of products	During the previous financial year 2023-2024 (1)	During the current financial year 2024-2025 (2)
(1) Technical, Paclo, TCP, ISOXAZOLIDINONE (F-57091 Na)	24.44	11.93

**ii) Raw Material consumption**

* Name of raw materials		Name of Products	Consumption of raw material per unit of output	
			During the previous financial year	During the Current financial year
			2023-2024	2024-2025
1	Sodium Isopropyl Xanthate	ISOXAZOLIDINONE (F-57091 Na)	0.003 Kg/ Kg	0.003 Kg/ Kg
2	Hydroxylamine Sulfate		0.812 Kg/ Kg	0.781 Kg/ Kg
3	CPC		1.311 Kg/ Kg	1.266 Kg/ Kg
4	H2SO4		0.031 Kg/ Kg	0.020 Kg/ Kg
5	Toluene Ltr.		0.028 Kg/ Kg	0.027 Kg/ Kg
6	Sodium Hypochlorite, Sol.		1.074 Kg/ Kg	0.821 Kg/ Kg
7	Sodium Hydroxide		1.406 Kg/ Kg	1.359 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.



**PART-C**

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

i) Pollutants		Quantity of pollutant (mass/day) TPD (mass/volume) mg/l except pH & Temp	Concentrations of pollutants in discharges (mass/volume) mg/l except pH & Temp.	Percentage of variation from prescribed standard with reasons
a) Water		TPD	mg/L	
		Zero Discharge Unit	Zero Discharge Unit	
b) Air		TPD	mg/Nm <sup>3</sup>	
Azoxy Plant				
	Chlorine	0.0000	0.79	---
	Hydrogen Chloride	0.0000	1.65	---
Boiler				
	SPM	0.0025	15.58 mg/nm3	---
	SOx	0.0038	8.31 ppm	---
	NOx	0.0039	11.75 ppm	---

**PART-D**

Hazardous Wastes

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

Hazardous wastes		Total Quantity (kg)	
		During the previous financial year 2023-2024	During the current financial year 2024-2025
a) From Process			
Category	Type of Waste		
	(1)Evaporation Salt	319,635	899,390
	(2) Waste Used Oil	200	1,250
	(3) Process waste ( Cat-29.1)	37,710	46,380
	(4) Insulation waste	4,520	6,345
	(5) Non Recycle Plastic	1,540	1,180
	(6) Mother liquor / wastewater	938,125	2595360
b) From Pollution Control facilities			
	ETP Sludge	Nil	12835

**PART -E**

Solid Wastes

		Total Quantity in Kgs	
		During the previous financial year 2023-2024	During the current financial year 2024-2025
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			
Empty barrel / Container / Liner		38075	63615
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) Rationalization of Raw material Consumption Norms
- (2) Increased Concentration of F57091.Na sol. from 15% to 16.5%
- (3) Using external steam source for minimizing natural gas consumption. External steam source is using biomass as a fuel.
- (4) Partially gas usages in 1500 KVA DG with high speed diesel

**PART -H**

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

- 1 Using a higher concentration of Hypo solution contributes to waste reduction
2. Waste reduction by reducing moisture content.
3. Utility rationalization -Simulation of air compressor to cater plant load in a effective manner

**PART - I**

Any other particulars for improving the quality of the environment.

- (1) Green power (Solar )is being purchased by third party through open access.
- (2) 4Rthon project has been implemented to conserve natural resources
- (3) World Environment DaY was celebrated on 5th June and tree plant was done inside the premises

Date: 4-Sep-25

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

Name: Shashin A Datar

Designation: Factory Manager

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



**ANNEXURE -1**

Sr No	List of Product	CCA Qty MT / Year
1	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), FLUFENACET (H), BOSCALID (F) etc.	225
2	KETONE: -DIMETHOMORPH TECH. (F), CLETHODIM (H), BUTROXYDIM (H), SPIROMESIFEN (I), MESOTRIONE (H), SULCOTRIONE (H), IBP (INT.)-(ISOBUTYROPHENONE), PYMETROZINE (I) etc.	60
3	ETHER: - PROPARGITE TECH. (I), OXYFLUORFEN (H), ETOXAZOLE (I), EEA (INT.)-(2-ETHOXY ETHYL AMINE), S-CYNO-MPB (INT.) etc.	60
4	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
5	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
6	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
7	TRIAZOLS: - 2,6 DICHLOROBENZOXAZOLE (INT.), ISOXAFLUTOLE (H), FLURASULAM (H), TDA (INT.) (TRIFLUOROMETHYLTHIADIAZOLE), 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&10	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), ACPM (INT.)-(2-AMINO-4-CHLORO-6-METHOXYPYRIMIDINE), IMAZETHAPYR TECH. (H), PYRIDALYL TECH (I), DIFLUFENICAN (H), CLOQUINTOCET-MEXYL(SF) 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.	185
11	Ryanxypyr	3000
12	Isoxazolidinone sodium solution	2600
13	4S Zeta Cypermethrin	150
&14	F-2700 Zeta Cypermethrin	
15	Natural gas based captive power plant ( Dicommisioned)	2.04 MW/Hr
16	4S Zeta Cypermethrin	200
17	F-2700 Zeta Cypermethrin	700
18	CYAZYPYR	1000
19	DBC80 / (3- BROMO -1-(3-CHLORO-2-PYRIDINYL)-1H-PYRAZOLE-5-CARBOXYLIC ACID)	1000
20	INDANAMINE	600
21	SULFENTRAZONE 2,4- DICHLORO/ 2,4- DICHLOROPHENYL--4-(DIFLOROMETHYL) TRIAZOLONE	1000



**Characterizations of Hazardous waste**

**ANNEXURE -2**

Sr, No,	Description of waste	Physical Form	Waste Category No,	Sp, Gr,	% Solids	Chemical Composition	Method of disposal
1	Spent Solvent	Liquid	20.2	0.98	N.A.	MDC, Acetone, Toluene, Methanoletc	Collection, Disposal, Storage, Transportation, Disposal to CHWIF of (BEIL/SEPPL/ RSPL ) Sale out to authorized user having Rule-9
2	Process Waste or Residue	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/SEPPL/ RSPL ) Coprocess to cement industry
3	Empty Barrels/ Container / Liners contaminated with Hazardous chemical / waste	Solid	33.1	x	N.A.	MS, HDPE, GI, Plastic, Liner	Collection, Disposal, Storage, Transportation, Disposal by selling to Decontamination facility or Disposal to TSDF / CHWIF of (BEIL/SEPPL)
4	Chemical Sludge from waste water Treatment ETP Sludge	Solid	35.3	x	85	CaO- 65%, SiO2-5%, water -15% Other calcium salt 15%	Collection, Disposal, Storage, Transportation, Disposal to TSDF (BEIL/SEPPL)
	Chemical Sludge from waste water Treatment Evaporation Salt	Solid	35.3	x	85	pH- 8 to 10, Moisture -15 %, CV-450 Cal/ gm Salt 75% Other -10 %	Collection, Disposal, Storage, Transportation, Disposal to TSDF (BEIL/SEPPL)
5	Incineration Ash	Solid	37.2	x	80	NaCl -6%, PO4- 10 %, SO4 -8%, Na2SO4-18%, Alkali as NaOH 20%	Collection, Disposal, Storage, Transportation, Disposal to TSDF (BEIL/SEPPL)
6	Used or spent Oil	Liquid	5.1	0.94	N.A.	N.A.	Collection, Disposal, Storage, Transportation, Disposal by selling to Recycler, Refiner
7	Salts of Per-Acids	Solid / Liquid	B36	x		Sodium Sulfate / Potassium Chloride / Potassium Sulfate	: Disposal by sell out to authorized users having rule 9 & authorization in valid CCA and Rule -9 after Making MOU
8	Distillation Residue	Residue	20.3	1.01	5 to 20	Stable Liquid waste pH - 5.5 to 8.5 Ash -2.5 to 4.5%, CV -2500 to 10000 Cal/gm	Collection, Disposal, Storage, Transportation, Disposal to CHWIF of (BEIL/SEPPL/ RSPL ) Coprocess to cement industry
9	NaCl Solution	Liquid	-	1.1 to 1.3	5 to 20	Stable Liquid waste pH - 5.5 to 8.5 Sodium and other Salt	Disposal at TSDF Facility at BEIL & SEPPL/ Safe Enviro
10	Scrubbing Solution (HCl30%)	Liquid	B-15	x	-	HCl -30%	Disposal by selling out to authorized users who are having authorization with valid CCA and rule 9 permission
11	Ethanol	Liquid	-	x	-	Ethanol	Recover & Reuse within industrial unit OR incineration to CHWIF at BEIL/ SEPPL/ ECO waste OR Disposal by Sell out to authorized users having rule 9
12	Spent Sulphuric Acid- 50%	Liquid	B-15	x	-	Spent Sulphuric Acid- 50%	Spent Sulphuric Acid 50% - Disposal by selling out to authorized users who are having authorization with valid CTO and rule 9 permission
13	HCl-30%	Liquid	B-15	x	-	HCl-30%	HCl 30% - Disposal by selling out to authorized users who are having authorization with valid CTO and rule 9 permission



## Characterizations of Hazardous waste

## ANNEXURE -2

Sr, No,	Description of waste	Physical Form	Waste Category No,	Sp, Gr,	% Solids	Chemical Composition	Method of disposal
14	Spent Catalyst	Solid	29.5	x	-	Catalyst	Disposal to CHWIF for incineration at BEIL/ SEPPL / Sent back to supplier for regeneration
er waste							
1	Asbestos waste	Solid	15.1	x	x	Asbestos	Collection, Storage, Transportation & Disposal to common TSDF at BEIL / SEPPL/ Safe Enviro
2	Insulation waste – glass wool.	Solid	33.1	x	x	Insulation Glass wool contaminated with chemicals	Collection, Storage, Transportation & Disposal to common TSDF at BEIL / SEPPL/ Safe Enviro
3	Paint residue,	Slurry	21.1,	x	x	Paint and its residue in container	Collection, Storage, Decontamination, sale to authorize traders, Decontamination Facility / scrap dealers. /reuse Or Disposal at TSDF / CHWIF Facility at BEIL & SEPPL/ Safe Enviro
	Spent solvent	Liquid	21.2		x	Thiner	
4	Contaminated cotton rags or other cleaning materials	Solid	33.2	x	x	Cotton contaminated with chemicals	Collection, Storage, Transportation & Disposal to common TSDF/ CHWIF facility at BEIL / SEPPL/ Safe Enviro
5	Non Recyclable Plastic waste ( PP / FRP)	Solid	33.1	x	x	Non recyclable Plastic Bags, Pipes , Equipments etc.	Collection, Storage, Transportation & Disposal to common TSDF at BEIL / SEPPL/ Safe Enviro
6	Date Expired/off Specification Product	Solid	29.3	x	x	Off Specification products	Collection, Storage, Transportation Disposal at TSDF / CHWIF Facility at – BEIL & SEPPL/ Safe Enviro
7	Electronic waste.	Solid	33.1	x	x	Electronic waste.	Collection, Storage, Transportation & Sold to actual end user is having permission
8	Mother liquor / waste water	Liquid	-	1.15	10 to 25	Waste water with high TDS and low Cod	Sent to incinerated in common incinerator facility at BEIL or Detox SEPPL OR Send it for co-processing to cement Industries OR Send to MEE at external facility OR Send for dryer at external facility.

