

# SIX MONTHLY EC COMPLIANCE REPORT

(December 2021 to May 2022)

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

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# 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: 01.12.2021 to 31.05.2022

No.	SC/CIL-Tech/ EC-Datasheet/01-2022	
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. Anil Kumar Trivedi Tel. 9427786280 , 02646618622
	b]. Address of Executive Project Engineer / Manager (with Pin code / Fax Number)	: Mr. Anil Kumar Trivedi Tel. 9427786280 , 02646618622
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
	Fuel Requirement	Natural Gas- 15500 Sm <sup>3</sup> /day, H.S.D.- 4320 l/day

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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> <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>✓ Work place monitoring to be carried out periodically by Siddhi Green Excellence Pvt Ltd., Ankleshwar.</li> <li>✓ Unit has developed &amp; maintained greenbelt area inside 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, start-up time and duration of boiler operation towards energy conservation</li> </ul>	
3	<p>For Water Environment Management</p> <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, effluent discharge, 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. It is ensured that the treated effluent meets specified norms of as specified in CC&amp;A of GPCB.</li> <li>✓ 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.</li> <li>✓ Good house-keeping have been implemented by the unit to prevent spillages and contaminated surface</li> </ul>	

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			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./ Safe Enviro / SEPPIL etc.</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 -2020-2021) 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 2021</td><td>103.770</td></tr><tr><td>January 2022</td><td>130.280</td></tr><tr><td>February 2022</td><td>93.259</td></tr><tr><td>March 2022</td><td>113.504</td></tr><tr><td>April 2022</td><td>92.220</td></tr><tr><td>May 2022</td><td>23.193</td></tr></table>	Production Details		Month	Quantity (MTM)	December 2021	103.770	January 2022	130.280	February 2022	93.259	March 2022	113.504	April 2022	92.220	May 2022	23.193
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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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	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 Work is in progress																																				
	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	:	18/04/2022 (Visit by CPCB officers)																																				

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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).					Details attached as below:																
3.	The details of products are as under:-					Noted. Unit has applied for Partial CC&A Amendment & CTO Renewal Application having Inward No. 206614 & 211767.  Production data as per existing CTO is as below: <table><tr><th colspan="2">Production Details of Compliance period: June 2021 to November 2021</th></tr><tr><th>Month</th><th>Quantity (MT/Month)</th></tr><tr><td>December 2021</td><td>103.770</td></tr><tr><td>January 2022</td><td>130.280</td></tr><tr><td>February 2022</td><td>93.259</td></tr><tr><td>March 2022</td><td>113.504</td></tr><tr><td>April 2022</td><td>92.220</td></tr><tr><td>May 2022</td><td>23.193</td></tr></table>	Production Details of Compliance period: June 2021 to November 2021		Month	Quantity (MT/Month)	December 2021	103.770	January 2022	130.280	February 2022	93.259	March 2022	113.504	April 2022	92.220	May 2022	23.193
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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	---	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),	60 TPA	---	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.) (TRIFLUOROMETHYLTHIADIAZOLE), 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), 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	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.				Photographs of greenbelt area attached as below:	

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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
		

## 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								
										
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</p>	<p>Unit has applied for Partial CC&amp;A Amendment &amp; CTO Renewal Application having Inward No. 206614 &amp; 211767.</p> <p>Total water consumption data as per existing CTO is as below:</p> <table border="1" data-bbox="1442 1251 2166 1390"> <thead> <tr> <th>Month</th><th>Quantity KL/Month</th><th>Limit as per CC&amp;A</th></tr> </thead> <tbody> <tr> <td>December 2021</td><td>2225</td><td rowspan="2">310.2 KL/ Day</td></tr> <tr> <td>January 2022</td><td>2342</td></tr> </tbody> </table>	Month	Quantity KL/Month	Limit as per CC&A	December 2021	2225	310.2 KL/ Day	January 2022	2342
Month	Quantity KL/Month	Limit as per CC&A								
December 2021	2225	310.2 KL/ Day								
January 2022	2342									



## 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																		
	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.  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.	February 2022	2238																	
		March 2022	3690																	
		April 2022	3900																	
		May 2022	2940																	
		Up to 20 <sup>th</sup> September 2021 treated effluent was discharged into underground conveyance pipeline connected to FETP of M/s. Narmada Clean Tech (NCT). On 9 <sup>th</sup> November application was submitted to NCT to discontinue Effluent Disposal. On 10 <sup>th</sup> November 2021, NCT Representative disconnect the flow meter, and remove the Data Recorder and provide seal to Effluent Discharge line.																		
		Total wastewater generation which is treated in RO & MEE Plant and maintain ZLD is as below:																		
		<table><tr><th>Month</th><th>Quantity KL/Month</th><th>Limit as per CC&amp;A</th></tr><tr><td>December 2021</td><td>1870</td><td rowspan="6">104.4 KL/Day</td></tr><tr><td>January 2022</td><td>1970</td></tr><tr><td>February 2022</td><td>1345</td></tr><tr><td>March 2022</td><td>797</td></tr><tr><td>April 2022</td><td>822</td></tr><tr><td>May 2022</td><td>590</td></tr></table>			Month	Quantity KL/Month	Limit as per CC&A	December 2021	1870	104.4 KL/Day	January 2022	1970	February 2022	1345	March 2022	797	April 2022	822	May 2022	590
		Month	Quantity KL/Month	Limit as per CC&A																
		December 2021	1870	104.4 KL/Day																
		January 2022	1970																	
February 2022	1345																			
March 2022	797																			
April 2022	822																			
May 2022	590																			
Fuel Consumption of existing utilities as per CC&A is given as below:																				
<table><tr><th>Month</th><th>Quantity NM3</th></tr><tr><td>December 2021</td><td>54184</td></tr><tr><td>January 2022</td><td>54243</td></tr></table>			Month	Quantity NM3	December 2021	54184	January 2022	54243												
Month	Quantity NM3																			
December 2021	54184																			
January 2022	54243																			

## 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	
				February 2022	41884
				March 2022	46278
				April 2022	37289
				May 2022	19348
					
	Provision of Data Recorder on discharge line	Removal of Data recorder	Disconnection of Flow Data from and blind flange with seal No. 3292,3293,3294 & 3295		
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 at Plot No. 241, 242/2, 241/P Notified GIDC Industrial Estate, Panoli- 394 116, Dist. Bharuch, State-Gujarat, India.	
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 Expansion of agrochemicals and their intermediates from 3533 TPA to 15583 TPA by M/s. Cheminova India Limited			Noted.	

## 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
	(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.	Consent to Establish has been granted by GPCB, Outward No. 15867 on dated 4 <sup>th</sup> June 2020.
(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 is 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.
(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 obtain all necessary permission under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) rules, 2016, Solid Waste Management Rules, 2016 in CCA Amendment application.
(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 applied for CC&A Amendment, Inward No. 206614 on dated 11 <sup>th</sup> November 2021. And following the given condition.
(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.
(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.	Unit has applied for CC&A Amendment, Inward No. 206614 on dated 11 <sup>th</sup> November 2021. And following the given condition.
(viii)	Solvent management shall be carried out as follows : a. Reactor shall be connected to chilled brine condenser system.	All requirements of effective Solvent management Plan shall be implemented.



## 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												
	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.													
(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.	Unit shall follow the given condition only after obtaining CTO 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 is provided Flame arresters on tank farm and solvent transfer through pumps. Photographs attached as below:												
(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.	Details are attached as below: <table border="1"> <thead> <tr> <th>Hazardous Waste Name</th><th>Disposal Quantity</th><th>Disposal mode</th></tr> </thead> <tbody> <tr> <td>Process organic residue &amp; spent carbon</td><td>181.705</td><td>Co-Processing</td></tr> <tr> <td>ETP sludge</td><td>15.665</td><td>TSDF site</td></tr> <tr> <td>Process inorganic &amp; evaporation salt</td><td>613.995</td><td>TSDF site</td></tr> </tbody> </table>	Hazardous Waste Name	Disposal Quantity	Disposal mode	Process organic residue & spent carbon	181.705	Co-Processing	ETP sludge	15.665	TSDF site	Process inorganic & evaporation salt	613.995	TSDF site
Hazardous Waste Name	Disposal Quantity	Disposal mode												
Process organic residue & spent carbon	181.705	Co-Processing												
ETP sludge	15.665	TSDF site												
Process inorganic & evaporation salt	613.995	TSDF site												
(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 shall store 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 maximum safety measures to be taken for transportation of Hazardous chemicals and guidelines of the Motor Vehicle Act, 1989 shall be followed.												
(xiv)	The company shall undertake waste minimization measures as below:-	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
	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.		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 Lakh 2. Rainwater Harvest = 15 Lakh 3. C Arm equipment donation to Jayaben Modi Hospital = 23 Lakh 4. Oxygen Plant donation to Sardar patel Hospital= 17 Lakh Total expenses are 63 lakh.
(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 yearly plan. Details as below:
	Sr. No	Training Subject	Trainee Roles
	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
			Finance / Administration / Civil

## 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
			(1) Other Person	Distribution / Stores / Excise
				HR / IT /Procurement / Tech Services
				Safety
			(1) Authorized Person	Mechanical Department
				Instrument Department
				Electrical Department
			(2) Affected Person	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	Production Department
			(2) Work Performing Group	Engineering Department
	6.	HAM	Detailed	All Department and Contractor
	7.	Security Standard	Detailed	All Department
	8.	Hose Management Standard	Detailed Training	Production / Engineering
				Contractor
	9.	Decommissioning	Detailed Training	Production, Engineering, Material, EHS, QC, HR Staff
	10.	Lab Standard		
		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

## 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
	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, Effective Injury and Illness Case	Detailed Training	All Department
	Management Guideline		
15.	Process Safety Module	Detailed Training	Manufacturing / Engineering /
16.	No-1 and No-2		Technical Services

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		
Sr. No.	Conditions	Compliance Status
	(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:




## 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
	(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
		



## 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



1537, Opp. K.M. Moreli Hall,  
Bhaver Mandi, New Colony,  
G.D.C. Anandnagar - 381 002  
Phone: (0264) 25291  
E-mail: dramitshah@yahoo.com

# MAHAVIR

## DIAGNOSTIC CENTRE

EARLY DIAGNOSIS IS BETTER THAN CURE

**Dr. Amit R. Shah**  
MBBS, AFRC

- Medical Adviser & Industrial Health Consultant
- Pre-Employment/Periodical Medical Examination
- Pre-Placement Medical Examination
- Executive Health Check-up
- Computerized Audiometry, Spirometry, ECG
- Computerized Pathological Laboratory
- First Aid Training, ST. John Ambulance Association
- Immunology, X-ray
- Tel. Echo
- Authorized for medical examination of workers

### CHEMINOVA INDIA LIMITED GIDC PANOLI (FMC SUBSIDIARY)

03

NAME: Mr. Mayur J. Patel  
EMP CODE: 147001 DEPT: Engineering UNIT: Sbu-1  
AGE: 45 Years WEIGHT: 60 Kg HEIGHT: 166 cm PULSE: 84/min BP: 120/76 mmHg

VISION: RIGHT LEFT  
NEAR: N/6 N/6 WITH SPECTS  
FAR: D/6 D/6

COLOR VISION: ACCEPTABLE

#### BLOOD EXAMINATION

PARAMETERS	FINDINGS	UNITS	NORMAL VALUES	PARAMETERS	FINDINGS	UNITS	NORMAL VALUES
HAEMOGLOBIN	13.4	gm/dl	[14.12-17, F:15-18]	BL SUGAR [F]	89	mg/dl	[80-100]
WBC COUNT	7200	/cmm	[4000-11000]	S. CHOLESTEROL	166	mg/dl	[150-250]
NEUTROPHILS	60	%	[40-75]	S. G.P.T.	18	u/l	[4-36]
LYMPHOCYTES	37	%	[20-40]	S. CREATININE	0.9	mg/dl	[0.7-1.5]
EOSINOPHILS	2	%	[01-06]	RBC Count	4.66	lacs/cmm	[4.5-6.5 lacs]
MONOCYTES	1	%	[02-07]	PLATELETS	215000	/cmm	[1.5-4.5 lacs]
MCH	28.0	pg	[27-32]	SCA %	100.00	%	[>72.5]
MCHC	30.2	%	[30-38]	RBC CHOLINESTERASE	504	u/ml	[778-999]
PCV	44.3	%	[38-54]	BLOOD GROUP	A	RH:	POSITIVE

#### URINE EXAMINATION

PHYSICAL:	CHEMICAL:	MICROSCOPIC:
QUANTITY: 10 ML	ALBUMIN: Absent	RBC: Absent
COLOR: PALE YELLOW	SUGAR: Absent	PLC CELL: 1-2/hpf
APPEARANCE: CLEAR	BILE SALT: Absent	CRYSTAL: Absent
DEPOSIT: Absent	BILE PIG: Absent	EPF CELLS: Absent
	ACETONE: Absent	CAST: Absent

#### LUNG FUNCTION TEST

	RESULT	PREDICTED	SPRD
FVC	2.36	2.95	80
FEV1	2.36	2.43	97
PEF	7.62	8.14	94
FEF 25-75%	3.75	3.75	100

Spirometry Within Normal Limits.


#### AUDIOMETRY TEST

FREQ.	500	1K	2K	4K	6K	8K
RIGHT	40	35	30	25	20	15
LEFT	45	30	35	20	25	10

S.C.G.: WITHIN NORMAL LIMIT

REMARKS: NOT SUFFERING FROM ANY INFECTIOUS OR CHRONIC DISEASE

*Dr. Amit Shah*  
Industrial Health Consultant  
2020/03/01



1537, Opp. K.M. Moreli Hall,  
Bhaver Mandi, New Colony,  
G.D.C. Anandnagar - 381 002  
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# MAHAVIR

## DIAGNOSTIC CENTRE

EARLY DIAGNOSIS IS BETTER THAN CURE

**Dr. Amit R. Shah**  
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- Medical Adviser & Industrial Health Consultant
- Pre-Employment/Periodical Medical Examination
- Pre-Placement Medical Examination
- Executive Health Check-up
- Computerized Audiometry, Spirometry, ECG
- Computerized Pathological Laboratory
- First Aid Training, ST. John Ambulance Association
- Immunology, X-ray
- Tel. Echo
- Authorized for medical examination of workers

### CHEMINOVA INDIA LIMITED GIDC PANOLI (FMC SUBSIDIARY)

40

NAME: Mr. Mohsin C. Raj  
EMP CODE: 146664 DEPT: Manufacturing UNIT: Sbu-1  
AGE: 39 Years WEIGHT: 81 Kg HEIGHT: 169 cm PULSE: 72/min BP: 130/80 mmHg

VISION: RIGHT LEFT  
NEAR: N/6 N/6  
FAR: D/6 D/6

COLOR VISION: ACCEPTABLE

#### BLOOD EXAMINATION

PARAMETERS	FINDINGS	UNITS	NORMAL VALUES	PARAMETERS	FINDINGS	UNITS	NORMAL VALUES
HAEMOGLOBIN	12.5	gm/dl	[14.12-17, F:15-18]	BL SUGAR [F]	84	mg/dl	[80-100]
WBC COUNT	10300	/cmm	[4000-11000]	S. CHOLESTEROL	155	mg/dl	[150-250]
NEUTROPHILS	55	%	[40-75]	S. G.P.T.	26	u/l	[4-36]
LYMPHOCYTES	33	%	[20-40]	S. CREATININE	0.9	mg/dl	[0.7-1.5]
EOSINOPHILS	1	%	[01-06]	RBC Count	4.02	lacs/cmm	[4.5-6.5 lacs]
MONOCYTES	1	%	[02-07]	PLATELETS	167000	/cmm	[1.5-4.5 lacs]
MCH	29.0	pg	[27-32]	SCA %	88.00	%	[>72.5]
MCHC	28.7	%	[30-38]	RBC CHOLINESTERASE	502	u/ml	[778-999]
PCV	47.0	%	[38-54]	BLOOD GROUP	O	RH:	POSITIVE

#### URINE EXAMINATION

PHYSICAL:	CHEMICAL:	MICROSCOPIC:
QUANTITY: 10 ML	ALBUMIN: Absent	RBC: Absent
COLOR: PALE YELLOW	SUGAR: Absent	PLC CELL: 1-2/hpf
APPEARANCE: CLEAR	BILE SALT: Absent	CRYSTAL: Absent
DEPOSIT: Absent	BILE PIG: Absent	EPF CELLS: Absent
	ACETONE: Absent	CAST: Absent

#### LUNG FUNCTION TEST

	RESULT	PREDICTED	SPRD
FVC	3.33	3.53	94
FEV1	3.25	3.08	105
PEF	9.93	6.54	152
FEF 25-75%	5.29	3.56	149

Spirometry Within Normal Limits.

#### AUDIOMETRY TEST

FREQ.	500	1K	2K	4K	6K	8K
RIGHT	35	30	20	25	15	10
LEFT	35	30	25	20	10	15

S.C.G.: WITHIN NORMAL LIMIT

REMARKS: NOT SUFFERING FROM ANY INFECTIOUS OR CHRONIC DISEASE

*Dr. Amit Shah*  
Industrial Health Consultant  
2020/03/01

(xxi)

Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue

Regular Monitoring of flue gas analysis is done by Siddhi Green



**MAHAVIR**  
**DIAGNOSTIC CENTRE**  
EARLY DIAGNOSIS IS BETTER THAN CURE

1537, Opp. K.M. Moreli Hall,  
Bhaver Mandi, New Colony,  
G.D.C. Anandnagar - 381 002  
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**Dr. Amit R. Shah**  
MBBS, AFRC

- Medical Adviser & Industrial Health Consultant
- Pre-Employment/Periodical Medical Examination
- Pre-Placement Medical Examination
- Executive Health Check-up
- Computerized Audiometry, Spirometry, ECG
- Computerized Pathological Laboratory
- First Aid Training, ST. John Ambulance Association
- Immunology, X-ray
- Tel. Echo
- Authorized for medical examination of workers

**CHEMINOVA INDIA LIMITED GIDC PANOLI (FMC SUBSIDIARY)** 40

NAME: Mr. Mohsin C. Raj  
EMP CODE: 146984 DEPT: Manufacturing UNIT: Sbu-1  
AGE: 39 Years WEIGHT: 81 Kg HEIGHT: 169 cm PULSE: 72/min BP: 130/80 mmHg

VISION: RIGHT LEFT  
NEAR: N/6 N/6  
FAR: D/6 D/6

COLOR VISION: ACCEPTABLE

**BLOOD EXAMINATION**

PARAMETERS	FINDINGS	UNITS	NORMAL VALUES	PARAMETERS	FINDINGS	UNITS	NORMAL VALUES
HAEMOGLOBIN	13.5	gm/dl	[14.12-17, F:15-18]	BL SUGAR [F]	94	mg/dl	[80-100]
WBC COUNT	9350	/cmm	[4000-11000]	S. CHOLESTEROL	162	mg/dl	[150-250]
NEUTROPHILS	55	%	[40-75]	S. G.P.T.	26	u/l	[4-36]
LYMPHOCYTES	33	%	[20-40]	S. CREATININE	0.9	mg/dl	[0.7-1.5]
EOSINOPHILS	1	%	[01-06]	RBC Count	4.66	lacs/cmm	[4.5-6.5 lacs]
MONOCYTES	1	%	[02-07]	PLATELETS	167000	/cmm	[1.5-4.5 lacs]
MCH	28.0	pg	[27-32]	SCA %	85.00	%	[>72.5]
MCHC	28.7	%	[30-38]	RBC CHOLINESTERASE	502	u/ml	[778-999]
PCV	47.0	%	[38-54]	BLOOD GROUP	O	RH:	POSITIVE

**URINE EXAMINATION**

PHYSICAL:	CHEMICAL:	MICROSCOPIC:
QUANTITY: 10 ML	ALBUMIN: Absent	RBC: Absent
COLOR: PALE YELLOW	SUGAR: Absent	PLC CELL: 1-2/hpf
APPEARANCE: CLEAR	BILE SALT: Absent	CRYSTAL: Absent
DEPOSIT: Absent	BILE PIG: Absent	EPF CELLS: Absent
	ACETONE: Absent	CAST: Absent

**LUNG FUNCTION TEST**

	RESULT	PREDICTED	SPRD
FVC	3.33	3.53	94
FEV1	3.25	3.06	106
PEF	9.93	6.54	152
FEF 25-75%	5.29	3.56	149

Spirometry Within Normal Limits.

**AUDIOMETRY TEST**

FREQ.	500	1K	2K	4K	6K	8K
RIGHT	35	30	20	25	15	10
LEFT	35	30	25	20	10	15

S.C.G.: WITHIN NORMAL LIMIT

REMARKS: NOT SUFFERING FROM ANY INFECTIOUS OR CHRONIC DISEASE

*Dr. Amit Shah*  
Industrial Health Consultant  
2020/03/01

## 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
	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.	Excellence Pvt. Ltd., Ankleshwar.
	(xxii) Mitigation measures suggested during process safety and risk assessment studies shall be undertaken accordingly.	Unit shall carry out detailed process safety and risk assessment study in the operational phase and mitigation measures of the same shall be implemented properly.
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.	Unit carries out Ambient Air quality monitoring. Analysis results of the same is attached for reference:

# 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

**Siddhi Green Excellence PRIVATE LIMITED**

**TEST REPORT**  
REPORT NO. - SGCE/ITD/ACM/PR/STATION-1/2022/27 Date of Issue - 11-04-2022  
Issued to: M/s. CHEMINOVA INDIA LTD. (TECHNICAL DIV.)  
Address: PLOT NO 241, SIDG ESTATE PANOLI, TA. ANKLESHWAR, DIST. BHARUCH-394116

SR.NO.	DESCRIPTION	AMBIENT AIR QUALITY MONITORING
1	Particulars of Sample	Station 2
2	Sample ID	22333-AQ-02
3	No. of samples	1
4	Date and time of start of sampling	04-04-2022 & 12:10 h
5	Date and time of completion of sampling	05-04-2022 & 12:10 h
6	Duration of Sampling in hrs	24
7	Approx. Ht. of sampling point in m	~ 3
8	Sampled by	Mr. Gita
9	Date of Analysis	06-04-2022

Sampling Plan & Sampling Method Used: Lab Document SGCE/AB01

DETAILS OF SAMPLING STATION		Mr. Storage Tank
1	Location	Inside Factory Premises
2	Distance from point site Km	SW-NE
3	Predominant wind direction	10-4
4	Average wind speed Km/hr	

PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE-2)	RESULTS
1. PM <sub>10</sub>	µg/m <sup>3</sup>	IS 5182(Part 2): 2005	100	71
2. PM <sub>2.5</sub>	µg/m <sup>3</sup>	IS 5182(Part 2): 2019	60	24
3. SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182(Part 2): 2005	60	23
4. NO <sub>x</sub>	µg/m <sup>3</sup>	IS 5182(Part 2): 2005	60	33

Additional to, deviations, or exclusions from the method: None  
Results from external provisions, if any: None  
Any other remarks: None  
Approximate used: µg = Microgram

Verified by: Authorized Signatory:

Notes: 1. Test results have been obtained on the basis of samples only and applicable to the conditions of sampling.  
2. Parameters to be monitored by report and given by customer and are included in the report upon request by customer.  
3. Certificates of accreditation are available on the website of the concerned authority. If the concerned parameters are analyzed, their results are given in the report.  
4. The analysis and interpretation are conducted in the laboratory upon request by customer and based upon relevant and information supplied by customer.  
5. Parameters to be monitored by report and given by customer and are included in the report upon request by customer.  
6. The analysis and interpretation are conducted in the laboratory upon request by customer and based upon relevant and information supplied by customer.  
7. This report shall be used as evidence in the court of law and shall not be reported in the court of law without the written approval of the concerned authority.

\*\*\* End of Report \*\*\*  
Page 1 of 1

Customer: M/s. CHEMINOVA INDIA LTD. (TECHNICAL DIV.)  
Address: PLOT NO 241, SIDG ESTATE PANOLI, TA. ANKLESHWAR, DIST. BHARUCH-394116  
Date: 11-04-2022

**Siddhi Green Excellence PRIVATE LIMITED**

**TEST REPORT**  
REPORT NO. - SGCE/ITD/ACM/PR/STATION-1/2022/27 Date of Issue - 11-04-2022  
Issued to: M/s. CHEMINOVA INDIA LTD. (TECHNICAL DIV.)  
Address: PLOT NO 241, SIDG ESTATE PANOLI, TA. ANKLESHWAR, DIST. BHARUCH-394116

SR.NO.	DESCRIPTION	AMBIENT AIR QUALITY MONITORING
1	Particulars of Sample	Station 1
2	Sample ID	22333-AQ-01
3	No. of samples	1
4	Date and time of start of sampling	04-04-2022 & 12:10 h
5	Date and time of completion of sampling	05-04-2022 & 12:10 h
6	Duration of Sampling in hrs	24
7	Approx. Ht. of sampling point in m	~ 3
8	Sampled by	Mr. Gita
9	Date of Analysis	06-04-2022

Sampling Plan & Sampling Method Used: Lab Document SGCE/AB01

DETAILS OF SAMPLING STATION		Mr. Main Gate area
1	Location	Inside Factory Premises
2	Distance from point site Km	SW-NE
3	Predominant wind direction	10-4
4	Average wind speed Km/hr	

PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE-2)	RESULTS
1. PM <sub>10</sub>	µg/m <sup>3</sup>	IS 5182(Part 2): 2005	100	71
2. PM <sub>2.5</sub>	µg/m <sup>3</sup>	IS 5182(Part 2): 2019	60	24
3. SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182(Part 2): 2005	60	23
4. NO <sub>x</sub>	µg/m <sup>3</sup>	IS 5182(Part 2): 2005	60	33

Additional to, deviations, or exclusions from the method: None  
Results from external provisions, if any: None  
Any other remarks: None  
Approximate used: µg = Microgram

Verified by: Authorized Signatory:

Notes: 1. Test results have been obtained on the basis of samples only and applicable to the conditions of sampling.  
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Page 1 of 1

Customer: M/s. CHEMINOVA INDIA LTD. (TECHNICAL DIV.)  
Address: PLOT NO 241, SIDG ESTATE PANOLI, TA. ANKLESHWAR, DIST. BHARUCH-394116  
Date: 11-04-2022

## 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
	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.

# 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

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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		
Sr. No.	Conditions	Compliance Status
	the ground water and use the same water for the process activities of the project to conserve fresh water.	below: 
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 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 shall 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 shall 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 shall 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	Unit commits that funds earmarked for environment management/ pollution control measures shall not be diverted for any other



## 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
	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.	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 copy of environmental clearance and six monthly compliance status report shall be posted on the website of the company.	Unit regularly submits six month report 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 is 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 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.	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.
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, 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.	Unit is complying all the conditions stipulated in EC letter regarding the construction phase and shall 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.

## 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:
		Quantity (MT/Annum)				
	SN	Name of Product	Existing	Proposed	Total (After Change in Product Mix)	Remarks
	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	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 2021	103.770
January 2022	130.280
February 2022	93.259
March 2022	113.504
April 2022	92.220
May 2022	23.193

## Six Monthly EC Compliance Report

Sr. No.	Consent Condition Requirement						Compliance Status
		(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), 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),	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
		BIOALLETHRIN (I), FENVALERATE (I), 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/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				No change	

## Six Monthly EC Compliance Report

Sr. No.	Consent Condition Requirement					Compliance Status
		(PGR), THIAMETHOXAM (I), CHLOROTHALONIL (F), TRIADIMEFON (F), 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), 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.				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

## Six Monthly EC Compliance Report

Sr. No.	Consent Condition Requirement					Compliance Status
	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.	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					No changes in plant building, equipment's &

## Six Monthly EC Compliance Report

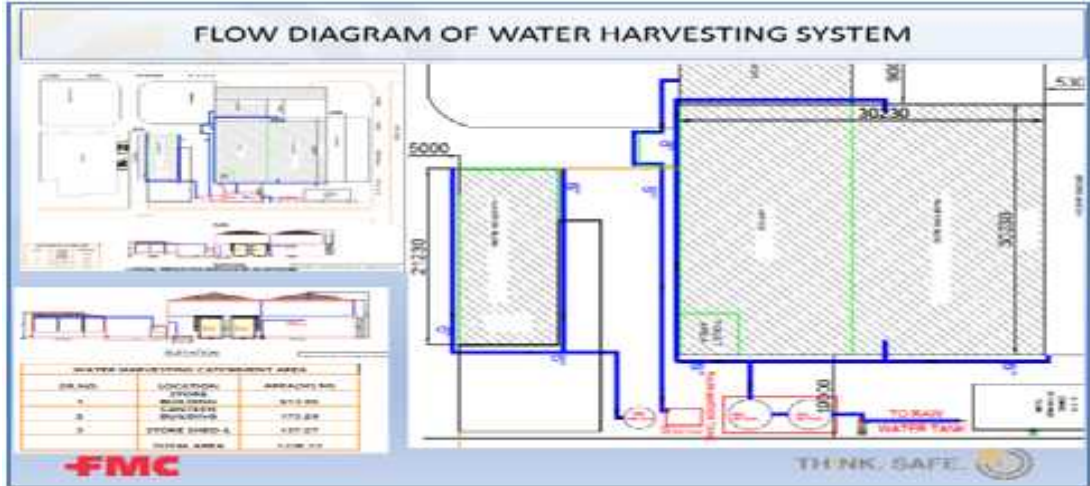
Sr. No.	Consent Condition Requirement	Compliance Status															
	after change in product mix.	machineries done for manufacturing the proposed new products after change in product mix.															
j.	In the case of submission of the false or misleading data, this CTE amendment will be forfeited immediately.	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	Noted. All the applicable SOP's published by															

## Six Monthly EC Compliance Report

Sr. No.	Consent Condition Requirement	Compliance Status
	emission control. (like guidelines for: Stone crushing units, Coal handling units, spent solvent handling and management, spent acid management, Decontamination of drums, containers etc.)	GPCB/CPCB for effective fugitive emissions will be followed.
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. VOL.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ROOF</td> <td>10000</td> </tr> <tr> <td>2</td> <td>STORAGE TANK</td> <td>10000</td> </tr> <tr> <td>3</td> <td>TOILET</td> <td>1000</td> </tr> <tr> <td>4</td> <td>WASHING AREA</td> <td>1000</td> </tr> </tbody> </table> <p>FMC logo and 'THINK SAFE' slogan are also present.</p>	SL. NO.	LOCATION	APPROX. VOL.	1	ROOF	10000	2	STORAGE TANK	10000	3	TOILET	1000	4	WASHING AREA	1000	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.
SL. NO.	LOCATION	APPROX. VOL.															
1	ROOF	10000															
2	STORAGE TANK	10000															
3	TOILET	1000															
4	WASHING AREA	1000															
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.	Noted. 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.															
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 2021 to May 2022 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 2021</td><td></td></tr><tr><td>January 2022</td><td></td></tr><tr><td>February 2022</td><td></td></tr><tr><td>March 2022</td><td></td></tr><tr><td>April 2022</td><td></td></tr><tr><td>May 2022</td><td></td></tr></table>	Details of Water Consumption		Month	KL/Month	December 2021		January 2022		February 2022		March 2022		April 2022		May 2022	
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Month	KL/Month																	
December 2021																		
January 2022																		
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March 2022																		
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May 2022																		
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 2021</td><td></td></tr><tr><td>January 2022</td><td></td></tr><tr><td>February 2022</td><td></td></tr><tr><td>March 2022</td><td></td></tr><tr><td>April 2022</td><td></td></tr><tr><td>May 2022</td><td></td></tr></table>	Details of Wastewater Generation (KL/Month)		Month	(KL/Month)	December 2021		January 2022		February 2022		March 2022		April 2022		May 2022	
Details of Wastewater Generation (KL/Month)																		
Month	(KL/Month)																	
December 2021																		
January 2022																		
February 2022																		
March 2022																		
April 2022																		
May 2022																		
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																																													
				Up to 20 <sup>th</sup> September 2021 treated effluent was discharged into underground conveyance pipeline connected to FETP of M/s. Narmada Clean Tech (NCT). On 9 <sup>th</sup> November application was submitted to NCT to discontinue Effluent Disposal . On 10 <sup>th</sup> November 2021, NCT Representative disconnect the flow meter, and remove the Data Recorder and provide seal to Effluent Discharge line.																																													
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. <table><tr><td>Sr. no.</td><td>Parameters</td><td>Permissible limit</td></tr><tr><td>1</td><td>Biochemical Oxygen Demand, BOD<sub>3</sub>, 27°C</td><td>Less than 20 mg/L</td></tr><tr><td>2</td><td>Total Suspended Solids</td><td>Less than 30 mg/L</td></tr><tr><td>3</td><td>Total Residual Chlorine</td><td>Minimum 0.5 ppm</td></tr></table> Sewage shall be treated in ETP along with Industrial effluent and discharged into GIDC underground drainage system and conveyed to FETP (NCTL).			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	Complied.																																	
Sr. no.	Parameters	Permissible limit																																															
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2	Total Suspended Solids	Less than 30 mg/L																																															
3	Total Residual Chlorine	Minimum 0.5 ppm																																															
3.4	The quality of industrial effluent shall conform to the standards (as per GPCB norms), whichever is applicable. <table><tr><td>Sr no.</td><td>PARAMETERS</td><td>PERMISSIBLE LIMIT</td></tr><tr><td>1</td><td>pH</td><td>6.5 to 8.5</td></tr><tr><td>2</td><td>Temperature</td><td>40°C</td></tr><tr><td>3</td><td>Colour (pt.co.scale)</td><td>100 units</td></tr><tr><td>4</td><td>Total Suspended solids (TSS)</td><td>150 mg/l</td></tr><tr><td>5</td><td>Total Dissolved Solids</td><td>10000 mg/l</td></tr><tr><td>6</td><td>Biochemical Oxygen Demand, BOD<sub>3</sub>, 27°C</td><td>200 mg/l</td></tr><tr><td>7</td><td>Chemical Oxygen Demand (COD)</td><td>1000 mg/l</td></tr><tr><td>8</td><td>Oil and Grease</td><td>10 mg/l</td></tr><tr><td>9</td><td>Phenolic compounds</td><td>5 mg/l</td></tr><tr><td>10</td><td>Sulphide (as S)</td><td>5 mg/l</td></tr><tr><td>11</td><td>Ammonical Nitrogen (As N)</td><td>50 mg/l</td></tr><tr><td>12</td><td>Total Kjeldahl Nitrogen (as N)</td><td>50 mg/l</td></tr><tr><td>13</td><td>Phosphate (as P)</td><td>5 mg/l</td></tr><tr><td>14</td><td>Chlorides (as Cl)</td><td>1000 mg/l</td></tr></table>			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	Complied. Photographs of waste water analysis reports of April 2022 is attached below:
Sr no.	PARAMETERS	PERMISSIBLE LIMIT																																															
1	pH	6.5 to 8.5																																															
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14	Chlorides (as Cl)	1000 mg/l																																															

## Six Monthly EC Compliance Report

Sr. No.	Consent Condition Requirement			Compliance Status
	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	
	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**

TEST REPORT

REPORT NO: SC/CILT/WW/APR/2022/01 Date of Issue: 11-04-2022

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

Address: PLOT NO 241, GIDC ESTATE-PANOLI, TA: ANKLESHWAR, DIST: BHARUCH-394116

Sample details	Sample 1	Total No. of sample received	2
Type of sample	Treated Effluent	Date of Sampling	05-04-2022
Sample ID	22349-WW-01	Date of Receipt	05-04-2022
Sample Qty. & Packing	2 L & Sealed, 10 L & Sealed**	Date of Analysis start	05-04-2022
Sampled by	Mr Rafik	Date of Completion	11-04-2022
Sampling Location	ETP Outlet		

Sampling Plan & Sampling Method Used: Lab document SC/LAB/01


SR.NO.	PARAMETERS	UNIT	TEST METHOD	PERMISSIBLE LIMITS(NOTE-2)	RESULTS Sample 1
1	pH	-	IS 3025(Part 11, Clause 2)-1983	6.5 - 8.5	8.356 @ 25.0 °C
2	Temperature	°C	APHA 21 <sup>st</sup> ed. 2550 B	40	27
3	Colour	pt/co	APHA 21 <sup>st</sup> ed. 2120 B	100	50
4	Total Suspended Solids	mg/L	APHA 21 <sup>st</sup> ed. 2540 D	150	30
5	Oil and Grease	mg/L	IS 3026(Part 30, Clause 5)-1997	10	BDL
6	Fluorides	mg/L	APHA 23 <sup>rd</sup> ed. 4500 F D	15	1.1
7	Sulphides	mg/L	APHA 23 <sup>rd</sup> ed. 4500 B2-F	5	3.3
8	Ammonical Nitrogen	mg/L	APHA 23rd ed. 4500 NH3-C	50	BDL
9	Total Kjeldahl Nitrogen	mg/L	APHA 22nd ed. 4000-N org B	10	10
10	Sulphate	mg/L	APHA 21 <sup>st</sup> ed. 4500 E	1000	600
11	Phosphate	mg/L	APHA 23 <sup>rd</sup> ed. 4500 P-C	5	BDL
12	Chloride	mg/L	APHA 23 <sup>rd</sup> ed. 4500 Cl B	1000	960
13	Total Dissolved Solids	mg/L	APHA 23 <sup>rd</sup> ed. 2540 C	10000	8558
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)-1983	200	20
17	COD	mg/L	IS 3025(Part 5B)	1000	152
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. 3500 Cr- B	0.1	BDL
23	Total Chromium (as Cr)	mg/L	APHA 23 <sup>rd</sup> ed. 3111 B	2	BDL
24	Iron	mg/L	IS 3025 (Part 53, Clause 6) / 2003	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. 5520 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: 

Authorized Signatory: 

Mrs. K. P. Shah / M.P. M. Shah

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. Certificates of accreditation are available on the website with period of validity. If non-accredited parameters are analyzed, test results are given on next 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. Perishable samples will be disposed after testing, for other samples, retention time is 15 days from the date of issue of test report, unless otherwise specified by customer or by applicable regulations.  
6. Laboratory has a consistent 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 \*\*\*

Format No.: SC/LAB/Report-10 Issue No.: 01 Issue Date: 09-04-2022 Revision No.: 02 Revision Date: 09-04-2022 page 1 of 2

GUJARAT'S PLATINUM CERTIFIED WATER TREATMENT SYSTEMS BY IGBC

Regd. Office: "Karnal Arcade - The Vertical SunClock" Comm. Plot No. C-33, GIDC Station Road, Ankleshwar - 383 002, Dist. Bharuch.

Dahej Off.: "SANSKAR AVENUE" Shop No. GF 37, P.O. Jolva, Ta. Vagra, Dist. Bharuch. Tele: 02641 - 254041

**Siddhi Green Excellence PRIVATE LIMITED**

TEST REPORT

REPORT NO: SC/CILT/WW/APR/2022/01 Date of Issue: 11-04-2022

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

Address: PLOT NO 241, GIDC ESTATE-PANOLI, TA: ANKLESHWAR, DIST: BHARUCH-394116

Sample details	Sample 1	Total No. of sample received	2
Type of sample	Treated Effluent	Date of Sampling	05-04-2022
Sample ID	22349-WW-01	Date of Receipt	05-04-2022
Sample Qty. & Packing	2 L & Sealed, 10 L & Sealed**	Date of Analysis start	05-04-2022
Sampled by	Mr Rafik	Date of Completion	11-04-2022
Sampling Location	ETP Outlet		

Sampling Plan & Sampling Method Used: Lab document SC/LAB/01

SR.NO.	PARAMETERS	UNIT	TEST METHOD	PERMISSIBLE LIMITS(NOTE-2)	RESULTS Sample 1
1	Pesticides	-	APHA 23 <sup>rd</sup> ed. 5830	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. 4500 CN D	0.2	BDL
4	Selenium (as Se)	mg/L	APHA 23 <sup>rd</sup> ed. 3800 Se C	0.05	BDL
5	Bio-assay test	%	IS 5882(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: 

Authorized Signatory: 

Mrs. K. P. Shah / M.P. M. Shah

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. The opinions and interpretations if mentioned in report are given upon request by customer and based upon material and information supplied by customer.  
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\*\*\* End of Report \*\*\*



Format No.: SC/LAB/Report-10 Issue No.: 01 Issue Date: 09-04-2022 Revision No.: 02 Revision Date: 09-04-2022 page 2 of 2

GUJARAT'S PLATINUM CERTIFIED WATER TREATMENT SYSTEMS BY IGBC


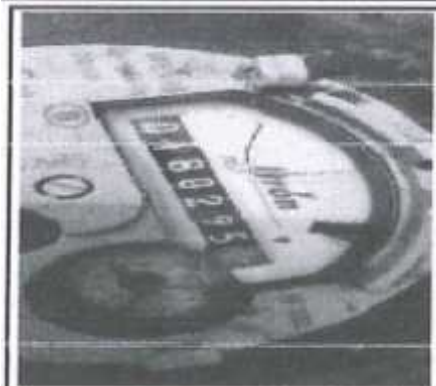
Regd. Office: "Karnal Arcade - The Vertical SunClock" Comm. Plot No. C-33, GIDC Station Road, Ankleshwar - 383 002, Dist. Bharuch, Gujarat State, (India). Tele: 02641 - 254041.

Dahej Off.: "SANSKAR AVENUE" Shop No. GF 37, P.O. Jolva, Ta. Vagra, Dist. Bharuch. Tele: 02641 - 254041

## 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.





## 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 style="display: flex; flex-wrap: wrap;"> <div style="width: 33%; text-align: center;">  <p>Near boiler house (GB-1)</p> </div> <div style="width: 33%; text-align: center;">  <p>Near Admin building (GB-2)</p> </div> <div style="width: 33%; text-align: center;">  <p>In front of R&amp;D building near Entrance (GB-3)</p> </div> <div style="width: 33%; text-align: center;">  <p>Behind Admin building (GB-5)</p> </div> <div style="width: 33%; text-align: center;">  <p>Along ETP (GB-6)</p> </div> <div style="width: 33%; text-align: center;">  <p>Behind PESO farm (GB-7)</p> </div> </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

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 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 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)

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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.

  
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- (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)

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- (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




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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)*

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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 - 462 016
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  
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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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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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	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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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.				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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- 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

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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:**

- a) Unit shall only use treated effluent for preparation of lime and other slurry in ETP. No fresh water shall be utilized 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.
- 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, 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.
- d) If the water consumption of the unit is more than 50 KLPD, Unit shall submit detailed water harvesting plan (off site).
- e) 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:**

- 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.
- 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.
- 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.
- d) Unit shall carry out transportation of hazardous wastes through GPS mounted vehicles only.

**[D] Other General Conditions:**

- a) Unit shall submit report of compliance of the conditions of EC every year to the Board prepared by third party.
- 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.

**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.

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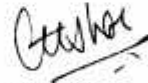
## Six Monthly EC Compliance Report

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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

**GUJARAT POLLUTION CONTROL BOARD**

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

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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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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

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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), IMPROTHRIN (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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## 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

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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.

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## 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 SEPPL 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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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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## GUJARAT POLLUTION CONTROL BOARD

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

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

Website: [www.gpcb.gov.in](http://www.gpcb.gov.in)

- 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:

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

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# 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:

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

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GPCB

**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	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.

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

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# 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	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.

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

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**GUJARAT POLLUTION CONTROL BOARD**

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

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

Website: [www.gpcb.gov.in](http://www.gpcb.gov.in)

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

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

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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 (2021-2022)



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 97262 02657  
fmc.com / fmc.in  
CIN NO. U24100MH1986PLC038627

PCB ID -15015

Ref No. CHEMINOVA/TECH/06/06/2022/01

Date -6<sup>th</sup> June 2022

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 - 2021 to March 2022 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,

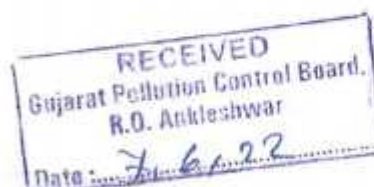
For CHEMINOVA INDIA LTD.

  
AUTHORISED SIGNATORY

Encl: 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

PCB ID- 15015

Year -2021-22

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

[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	Anilkumar Trivedi (Factory Manger) CHEMINOVA INDIA LTD, (Technical Division) Plot No. – 241, 242/2 & 241/P, GIDC, PANOLI Dist Bharuch Ph. No. 02646-618600/1/2/, 618701, email – <a href="mailto:Anilkumar.Trivedi@mc.com">Anilkumar.Trivedi@mc.com</a>								
4.	Production (Product wise) during year April 2021 to March 2022	<table><tr><th>Product</th><th>Quantity in (MT)</th></tr><tr><td>TRIAZOLS: Paclobutrazol Technical</td><td>82.098</td></tr><tr><td>NEONICOTINOID / AMIDE Thidoprid Technical</td><td>7.174</td></tr><tr><td>ISOKAZOLIDINONE (F-57091 Na)</td><td>1033.072</td></tr></table>	Product	Quantity in (MT)	TRIAZOLS: Paclobutrazol Technical	82.098	NEONICOTINOID / AMIDE Thidoprid Technical	7.174	ISOKAZOLIDINONE (F-57091 Na)	1033.072
Product	Quantity in (MT)									
TRIAZOLS: Paclobutrazol Technical	82.098									
NEONICOTINOID / AMIDE Thidoprid Technical	7.174									
ISOKAZOLIDINONE (F-57091 Na)	1033.072									

YEAR – 2021-22  
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 wastewater treatment (ETP Sludge)	35.3	30.865
		2. Chemical sludge from wastewater treatment (Evaporation Salt)	35.3	776.14
		3. Used or spent oil	5.1	Nil
		4. Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes		1.825
		a. Non-Recyclable Plastic / Contaminated liners, bags		11.140
		b. Insulation waste		Nil
		c. Asbestos sheet		73.641
		d. Discarded containers	33.1	Total Qty. = 86.606
		5. Process waste or Residue		
		a. For Incineration	29.1	655.743
		b. For Co-process		
		6. Incineration Ash / Flue gas cleaning Residue	37.2	Nil
		7. (a) Spent Solvents	20.2	Nil
		c. Stripped solvent from stripper	20.2	
		8. E- waste		Nil
		9. Battery		47 Nos. / 1.020 MT

## Six Monthly EC Compliance Report

YEAR – 2021-22

PCB ID- 15015

PCB ID- 150

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 enclosed)
		1. Chemical sludge from wastewater treatment (ETP Sludge)	35.3	30.865	NIL	NIL	ANNEXURE- A
		2. Chemical sludge from wastewater treatment (Evaporation Salt)	35.3	777.09	NIL	NIL	ANNEXURE- B
		3. Used or spent oil	5.1	NIL	NIL	NIL	
		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	1.825 11.140 Nil	75.675	NIL	Total Qty.= 88.640 ANNEXURE- C
		5. Process waste or Residue a. For Incineration b. For Co-process	29.1 29.1	0.000 660.375 Total Qty. = 660.375	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	Nil	
		9. Used Battery		Nil	Nil	47 Nos. /1.020 MT	ANNEXURE- G
3	Quantity utilized in-house		NIL				

YEAR – 2021-22

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 wastewater treatment (ETP Sludge)	35.3	Nil
		2. Chemical sludge from wastewater treatment (Evaporation Salt)	35.3	13.520
		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 Nil Nil 0.791
		5. Process waste or Residue c. For Incineration d. For Co-process	29.1 29.1	1.903
		6. Incineration Ash / Flue gas cleaning Residue	37.2	Nil
		7. (a) Spent Solvents c. Stripped solvent from stripper	20.2 20.2	Nil
		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 wastewater treatment (ETP Sludge) Cat- 35.3 (Land filling)

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Nov-21	09-Nov-21	1446942	15.200	BEIL
Mar-22	08-Mar-22	1573803	15.665	SEPL
TOTAL QUANTITY (In MT)			30.865	

ANNEXURE- B

#### 2. Chemical sludge from wastewater treatment (Evaporation Salt) Cat- 35.3 (Land filling)

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Apr-21	02-Apr-21	1292180	15.145	BEIL
	12-Apr-21	1292749	14.560	BEIL
	19-Apr-21	1304945	13.905	BEIL
	28-Apr-21	1312140	14.940	BEIL
	29-Apr-21	1312453	13.845	BEIL
May-21	3-May-21	1315426	12.830	BEIL
	11-May-21	1321253	14.925	BEIL
	14-May-21	1323817	14.605	BEIL
	26-May-21	1331091	16.405	BEIL
	30-May-21	1334178	15.450	BEIL
Jun-21	1-Jun-21	1335391	13.765	BEIL
Oct-21	26-Oct-21	1436368	15.640	BEIL
	29-Oct-21	1439882	13.890	BEIL
	1-Nov-21	1442414	15.425	BEIL
Nov-21	10-Nov-21	1448227	14.920	BEIL
	15-Nov-21	1452743	15.280	BEIL
	19-Nov-21	1457194	13.810	BEIL
	25-Nov-21	1463140	15.200	BEIL
	26-Nov-21	1464422	17.430	BEIL
	29-Nov-21	1467721	17.915	BEIL
	3-Dec-21	1471151	14.925	BEIL
	11-Dec-21	1479112	14.695	BEIL
Dec-21	14-Dec-21	1481889	14.425	BEIL
	15-Dec-21	1483798	13.930	BEIL
	16-Dec-21	1484736	17.950	BEIL
	21-Dec-21	1490100	17.750	BEIL

PCB ID- 15015

**PART-A**  
**HAZARDOUS WASTE DISPOSAL DETAILS**

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Dec-21	23-Dec-21	1491994	14.815	BEIL
	28-Dec-21	1497606	15.060	BEIL
Jan-22	4-Jan-22	1504909	14.250	BEIL
	8-Jan-22	1509782	14.070	BEIL
	12-Jan-22	1514477	21.340	SEPL.
	13-Jan-22	1515519	34.640	SEPL.
	13-Jan-22	1515757	16.580	BEIL
	19-Jan-22	1520787	14.595	BEIL
	21-Jan-22	1523338	15.165	SEPL.
	22-Jan-22	1524756	15.270	BEIL
	27-Jan-22	1529947	39.330	SEPL.
Feb-22	2-Feb-22	1536711	13.395	SEPL.
	4-Feb-22	1538982	20.685	SEPL.
	11-Feb-22	1546318	27.070	SEPL.
	26-Feb-22	1552992	29.980	SEPL.
Mar-22	10-Mar-22	1576332	15.155	SEPL.
	14-Mar-22	1580547	15.160	BEIL
	15-Mar-22	1581731	14.725	BEIL
	23-Mar-22	1589181	15.770	SEPL.
	23-Mar-22	1589165	15.475	SEPL.
TOTAL QUANTITY (In MT)			777.09	

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
Nil				



## Six Monthly EC Compliance Report

PCB ID- 15015

### PART-A HAZARDOUS WASTE DISPOSAL DETAILS

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
Dec-21	17-Dec-21	1485854	0.735	BEIL
Mar-22	09-Mar-22	1574940	1.090	BEIL
TOTAL QUANTITY (In MT)			1.825	

- (4) Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes Cat -33.1  
b. Insulation waste = Land filling

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Apr-21	06-Apr-21	1295087	0.475	BEIL
May-21	8-May-21	1319301	0.595	BEIL
Nov-21	13-Nov-21	1451342	0.960	BEIL
	13-Nov-21	1451376	0.690	BEIL
Dec-21	1-Dec-21	1469472	1.095	BEIL
	4-Dec-21	1471949	1.005	BEIL
	15-Dec-21	1483790	0.845	BEIL
	25-Dec-21	1494760	1.495	BEIL
Jan-22	6-Jan-22	1507604	1.310	BEIL
	29-Jan-22	1531784	0.670	BEIL
	31-Jan-22	1534038	0.680	BEIL
Feb-22	11-Feb-22	1546445	0.725	BEIL
Mar-22	08-Mar-22	1573700	0.595	BEIL
TOTAL QUANTITY (In MT)			11.140	

- (4) Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes Cat -33.1  
c. Asbestos sheet

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Nil				

# Six Monthly EC Compliance Report

PCB ID- 15015

## PART-A

### HAZARDOUS WASTE DISPOSAL DETAILS

(4) Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes Cat -33.1

d. Empty barrels/Containers/liners etc – To Recycler/ Decontamination Facility

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Apr-21	05-Apr-21	1293845	2.715	Anas Green Environment Pvt. Ltd.
	07-Apr-21	1295690	2.720	Anas Green Environment Pvt. Ltd.
	23-Apr-21	1308223	2.725	Anas Green Environment Pvt. Ltd.
	28-Apr-21	1311741	2.500	Anas Green Environment Pvt. Ltd.
May-21	21-May-21	1327643	2.715	Anas Green Environment Pvt. Ltd.
	22-May-21	1328301	1.975	Anas Green Environment Pvt. Ltd.
Jun-21	9-Jun-21	1341016	0.995	Anas Green Environment Pvt. Ltd.
	11-Jun-21	1342553	2.725	Anas Green Environment Pvt. Ltd.
	18-Jun-21	1347663	2.770	Anas Green Environment Pvt. Ltd.
Jul-21	05-Jul-21	1359024	2.730	Anas Green Environment Pvt. Ltd.
	15-Jul-21	1365991	2.330	Anas Green Environment Pvt. Ltd.
	19-Jul-21	1368374	2.485	Anas Green Environment Pvt. Ltd.
	27-Jul-21	1373683	2.540	Anas Green Environment Pvt. Ltd.
Aug-21	3-Aug-21	1378219	2.100	Anas Green Environment Pvt. Ltd.
Sep-21	7-Sep-21	1411475	1.025	Anas Green Environment Pvt. Ltd.
	9-Sep-21	1402690	0.990	Anas Green Environment Pvt. Ltd.
Nov-21	10-Nov-21	1447817	2.720	Anas Green Environment Pvt. Ltd.
	16-Nov-21	1453737	2.705	Anas Green Environment Pvt. Ltd.
	25-Nov-21	1463154	2.485	Anas Green Environment Pvt. Ltd.
	26-Nov-21	1464746	2.795	Anas Green Environment Pvt. Ltd.
Dec-21	1-Dec-21	1469721	3.090	Anas Green Environment Pvt. Ltd.
	7-Dec-21	1474597	2.755	Anas Green Environment Pvt. Ltd.
	14-Dec-21	1481779	2.700	Anas Green Environment Pvt. Ltd.
	17-Dec-21	1485552	2.860	Anas Green Environment Pvt. Ltd.
Jan-22	22-Dec-21	1490770	0.990	Anas Green Environment Pvt. Ltd.
	12-Jan-22	1514005	0.985	Anas Green Environment Pvt. Ltd.
	17-Jan-22	1518299	0.985	Anas Green Environment Pvt. Ltd.
	19-Jan-22	1521125	2.165	Anas Green Environment Pvt. Ltd.
Feb-22	25-Jan-22	1527865	1.57	Anas Green Environment Pvt. Ltd.
	2-Feb-22	1536181	0.990	Anas Green Environment Pvt. Ltd.
	4-Feb-22	1538806	2.425	Anas Green Environment Pvt. Ltd.
	11-Feb-22	1546166	2.665	Anas Green Environment Pvt. Ltd.
Mar-22	17-Feb-22	1552523	1.795	Anas Green Environment Pvt. Ltd.
	08-Mar-22	1573710	0.980	Anas Green Environment Pvt. Ltd.
	11-Mar-22	1577276	0.990	Anas Green Environment Pvt. Ltd.
	22-Mar-22	1587576	0.985	Anas Green Environment Pvt. Ltd.
TOTAL QUANTITY (In MT)			75.675	

# Six Monthly EC Compliance Report

PCB ID- 15015

## PART-A HAZARDOUS WASTE DISPOSAL DETAILS

ANNEXURE- E

### (5) Process waste or Residue Cat -29.1

#### a. For Incineration

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	Disposed to
Nil				

### (5) Process waste or Residue Cat -29.1

#### (b) For Co-process

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	Disposed to
05-Apr-21	05-Apr-21	1293973	6.950	RSPL
28-Apr-21	28-Apr-21	1311722	7.340	RSPL
8-May-21	8-May-21	1318972	7.110	RSPL
23-Jun-21	23-Jun-21	TECH-001	30.675	Navoco
05-Jul-21	05-Jul-21	TECH-0002	6.205	ECO WASTE
30-Jul-21	30-Jul-21	1376010	29.180	ECO WASTE
26-Aug-21	26-Aug-21	1399637	9.655	ECO WASTE
27-Aug-21	27-Aug-21	1394564	15.420	ECO WASTE
28-Aug-21	28-Aug-21	1395037	9.320	ECO WASTE
28-Aug-21	28-Aug-21	1395349	27.525	ECO WASTE
31-Aug-21	31-Aug-21	1396689	9.130	ECO WASTE
31-Aug-21	31-Aug-21	1396745	14.335	ECO WASTE
2-Sep-21	2-Sep-21	1397913	8.740	ECO WASTE
3-Sep-21	3-Sep-21	1399037	21.280	ECO WASTE
4-Sep-21	4-Sep-21	1399707	15.910	ECO WASTE
11-Sep-21	11-Sep-21	1401283	19.690	ECO WASTE
11-Sep-21	11-Sep-21	1404374	21.240	ECO WASTE
15-Sep-21	15-Sep-21	1406896	19.855	ECO WASTE
18-Sep-21	18-Sep-21	1408609	20.130	ECO WASTE
22-Sep-21	22-Sep-21	1411059	19.385	ECO WASTE
22-Sep-21	22-Sep-21	1411378	16.055	ECO WASTE
25-Sep-21	25-Sep-21	1413789	17.230	ECO WASTE
25-Sep-21	25-Sep-21	1413712	7.975	ECO WASTE
25-Sep-21	25-Sep-21	1413664	20.410	ECO WASTE
27-Sep-21	27-Sep-21	1415601	7.160	ECO WASTE
4-Oct-21	4-Oct-21	1419340	24.085	ECO WASTE
8-Oct-21	8-Oct-21	1422175	24.710	ECO WASTE
10-Nov-21	10-Nov-21	1447987	7.045	ECO WASTE
16-Nov-21	16-Nov-21	1454042	10.945	ECO WASTE
18-Nov-21	18-Nov-21	1456438	25.745	ECO WASTE
19-Nov-21	19-Nov-21	1457002	19.975	ECO WASTE



# Six Monthly EC Compliance Report

PCB ID- 15015

## PART-A HAZARDOUS WASTE DISPOSAL DETAILS

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	Disposed to
23-Nov-21	23-Nov-21	1461040	9.315	ECO WASTE
29-Nov-21	29-Nov-21	1467658	32.610	ECO WASTE
30-Nov-21	30-Nov-21	1468646	22.890	ECO WASTE
13-Dec-21	13-Dec-21	1480874	22.690	ECO WASTE
16-Dec-21	16-Dec-21	1484398	5.945	RSPL
20-Dec-21	20-Dec-21	1489049	19.665	ECO WASTE
13-Jan-22	13-Jan-22	1515581	6.185	ECO WASTE
17-Jan-22	17-Jan-22	1518392	9.125	ECO WASTE
19-Jan-22	19-Jan-22	1521225	7.200	ECO WASTE
05-Mar-22	05-Mar-22	1570672	7.520	ECO WASTE
10-Mar-22	10-Mar-22	1575902	8.200	RSPL
10-Mar-22	10-Mar-22	1576218	8.520	ECO WASTE
TOTAL QUANTITY (In MT)			660.375	

ANNEXURE- F

### (6) E- waste

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	Disposed to
Nil				

ANNEXURE- G

### (6) Used Battery

Month of disposal	Date of disposal	Invoice No.	Quantity Nos.	Disposed to
Sep. 21	6-Sep. 21	CIL0124/21-22 CIL0125/21-22	45 Nos. /0.814 MT	Surya Power Battery / Gayatri Dimensions
Mar-22	3-Mar-22	CIL0399/21-22 CIL0400/21-22	02 Nos. / 0.186 MT	Surya Power Battery

DATE: 6<sup>th</sup> June 2022

PLACE: Panoli

Signature of Factory manager /Occupier

## Six Monthly EC Compliance Report

### Annexure 5 - Environment Statement- Form- 5 (2020-2021)



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 / fmc.in  
CIN NO. U24100MH1986PLC038627

Ref No. CIL/ TECH/Form -V/2020-21/09/05/21

**ID: 15015**

Date: 5<sup>th</sup> September 2021

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 2020-21


Respected Sir,

Please find enclosed the duly filled Environment Statement in Form-V for the financial year 2020-21

Please acknowledge the same.

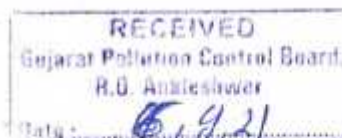
This is for your kind perusal please

Thanking you,  
Yours faithfully,

  
Cheminova India Limited, Panoli,  
Technical Division

Enclosures: Form —V

CC To: Regional Officer, GPCB, Ankleshwar.



# 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:

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

Environmental Statement for the financial year ending the 31st March, 2021

### 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 :- (SIC 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                         | - 5Th September 2020   |

### PART -B

#### Water & Raw Material Consumption

- |  |                          |
|--|--------------------------|
| i) Water consumption - M <sup>3</sup> /day | - 91 m <sup>3</sup> /day |
| Process                                    | - 20 m <sup>3</sup> /day |
| Cooling                                    | - 42 m <sup>3</sup> /day |
| Domestic                                   | - 29 m <sup>3</sup> /day |

Name of products	Process water consumption per product output (Lit./ Kg)	
	During the previous financial year 2019-2020 (1)	During the current financial year 2020-2021 (2)
(1) Technical, Packs, TCP, ISOXAZOLIDINONE (F-57091 Na)	35.70	31.17

#### 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
		2019-2020	2020-2021
1 2-CIT	TCP	0.6841 Kg/ Kg	0.6472 Kg/ Kg
2 NaOH FLAKES		0.2241 Kg/ Kg	0.2055 Kg/ Kg
3 CCMP		1.3483 Kg/ Kg	1.263 Kg/ Kg
4 MeOH		1.7008 Kg/ Kg	0.3243 Kg/ Kg
1 Paoiketone	Paciobutazole	1.0812 Kg/ Kg	1.0618 Kg/ Kg
2 NaBH4		0.0421 Kg/ Kg	0.0403 Kg/ Kg
3 30% HCl		0.1339 Kg/ Kg	0.1330 Kg/ Kg
4 Methanol		0.6920 Kg/ Kg	0.8247 Kg/ Kg
5 NaHCO3		0.0337 Kg/ Kg	0.0447 Kg/ Kg
1 Sodium Isopropyl Xanthate	ISOXAZOLIDINONE (F-57091 Na)	0.0028 Kg/ Kg	0.0026 Kg/ Kg
2 Hydroxylamine Sulfate		0.8566 Kg/ Kg	0.8105 Kg/ Kg
3 CPC		1.2961 Kg/ Kg	1.2873 Kg/ Kg
4 H2SO4		0.0835 Kg/ Kg	0.0380 Kg/ Kg
5 Toluene Ltr.		0.1423 Kg/ Kg	0.0499 Kg/ Kg
6 Sodium Hypochlorite, Sol.		1.0387 Kg/ Kg	0.8965 Kg/ Kg
7 Sodium Hydroxide		1.4877 Kg/ Kg	1.3931 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 discharged (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
Average Flow 19.38 m <sup>3</sup> /d.				
n) Water		TPD	mg/L	
Total Dissolved Solid		0.0938	4356	...
Total Suspended Solid		0.0010	46	...
Chemical Oxygen Demand		0.0029	136	...
Biological Oxygen Demand		0.0009	40	...
Ammonical Nitrogen		Nil	Nil	...
b) Air		TPD	mg/Nm <sup>3</sup>	
Azoxo Plant				
	Chlorine	0.0000	1.91	...
	Hydrogen Chloride	0.0000	2.70	...
Boiler				
	SPM	0.0017	14.75 mg/nm <sup>3</sup>	...
	SOx	0.0023	7.25 ppm	...
	NOx	0.0027	10.92 ppm	...

### PART-D

Hazardous Wastes

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

Hazardous wastes		Total Quantity (kg)	
		During the previous financial year 2019-2020	During the current financial year 2020-2021
a) From Process			
Category	Type of Waste		
	(1) Evaporation Salt	22,995	637130
	(2) Waste Used Oil	300	135
	(3) Discarded Container Bag Liner (Cat-3,3)	26,190	8995
	(4) Process waste (Cat-29,1)	98,260	52450
	(5) Spent Solvents	Nil	Nil
	(6) Stripped Solvent	Nil	Nil
b) From Pollution Control facilities			
	ETP Sludge	26,140	35780



## PART -E Solid Wastes

	Total Quantity in Kgs	
	During the previous financial year 2019-2020	During the current financial year 2020-2021
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		
Discarded Container / Drum Cut sheet	1025	41825
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) Retrofitting of ETP Aeration Tank and ITMP of all equipment were done
- (2) Provision of occupancy sensor , LED light and replacement of old Motor with energy efficient Motor
- 3) Provision / agreement for procurement of Solar power / Conventional Energy

## PART -H

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

- 1.) Installation of Magnetic Flow meter for monitoring of incoming effluent.
- 2.) The plant operation / new molecule production is being done through PLC system
- 3.)Implementation of Hazop Recommendation to have safe operation

## PART -I

Any other particulars for improving the quality of the environment.

- (1) Renovation and cleaning of Aeration Tank to have effective volume utilization
- (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-21

(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 (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
3	KETONE: -DIMETHOMORPH TECH. (F), CLETHODIM (H), BUTROXYDIM (H), SPIROMESIFEN (I), MESOTRIONE (H), SULCOTRIONE (H), IBP (INT.)-[ISOBUTYROPHENONE], PYMETROZINE (I) etc.	60
4	ETHER: - PROPARGITE 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 (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
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. (I), CHLORMEQUAT CHLORIDE (I), OTHER SALTS: COPPER HYDROXIDE (BACTERICIDE,F), COPPER SULPHATE (ALGICIDE,F), etc., FLUPROPANATE-NA TECH (H) + HPPA (INT.)-(2-HYDROXYPHENYLACETIC ACID), BBA (INT.)-(BROMOBUTYRICACID), HPPA-INT.(2-(4-HYDROXYPHENOXY)PROPANATE), PICLORAM (H), DICAMBA (H), 2-CYANOPHENOL (INT.) etc.	68
8	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	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) 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.	185
10	Ryanxypyr	935
11	Isxazolidinone 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	35.3	x	85	CaO- 65%, SiO2-5%,water -15% Other calcium salt 15%	Collection,Disposal,Storage, Transportation, Disposal to TSDF (BEIL/SEPL)
2	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/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	33.1	x	N.A.	MS, HDPE, GI,	Collection,Disposal,Storage, Transportation, Disposal by selling to Decontamination facility
5	Discarded Bags , Liners	Solid	33.1	x	N.A.	Plastic, Liner	Collection,Disposal,Storage, Transportation, Disposal to TSDF / CHWIF of (BEIL/SEPL)
6	ProcessWaste	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	37.2	x	80	NaCl -6%, PO4- 10 %, SO4 -8%, Na2SO4-18%, 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, Toluene, Methanoletc	Collection,Disposal,Storage, Transportation, Disposal to CHWIF of (BEIL/SEPL/ RSPL ) Sale out to authorized user having Rule-9

