FMC | An Agricultural Sciences Company

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

Date: 28-12-2022

Ref.: CIL-TECH /EC-Comp/02/2022

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

Sub: Submission of compliance report of M/s. Cheminova India Limited (Technical Division) for our EC No. IA-J-11011/85/2018-IA-II(I); dated 25/11/2019 for the period of June 2022 to November 2022.

Respected Sir,

In accordance to the condition specified in our EC, we hereby submit duly filled datasheet for monthly Monitoring report (June 2022 to November 2022) for implementation of stipulated conditions of our EC together with point wise compliance status of various stipulations.

We hereby submit the duly filled datasheet as per data for the period of June 2022 to November 2022.

Following are the Annexure to this report:

Annexure No.	Annexure Details
A	Six Monthly Monitoring report data sheet
1	Compliance report of EC
2	Compliance report of CC&A/CTO Amendment
3	Copy of existing EC and CC&A/CTO
4	Annual return- Form-4 (2021-2022)
5	Environmental statement- Form V (2021-2022)

Please find the above in order and acknowledge receipt.

Thanking You,
Yours faithfully,

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

CHEMINOVA INDIA LIMITED PANOLI

Authorized Signatory

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

SIX MONTHLY
EC COMPLIANCE REPORT

(June 2022 to November 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
Scientist C, Integrated Regional Office,
Aranya Bhavan, Sector-10,
Gandhinagar – 382 010

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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: 01.06.2022 to 30.11.2022

No. SC/CIL-Tech/ EC-Datasheet/02-2022			
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: 25th 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^3/day, H.S.D.- 4320 l/day

Man power	Total: 200 (Company employee) + 500 (Contract employee)

b]. Of the Environmental Management Plans : As follows.

Sr. No.	Activity	Status
1	Formulation of EHS cell Constitutes EHS in charge, ETP super visor and operators, Lab chemist and assistants	EHS cell consists of EHS in charge, ETP super visor and operators, Lab chemist and assistants.
2	For Air Environment Management • 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. • Work place monitoring to be carried out periodically to check fugitive emissions, if any. • To develop and maintain greenbelt, in and around the factory, for reducing the effect of air pollutants due to their deposition. • To follow proper loading and unloading practices to minimize dusting • To maintain proper record for the fuel consumption, start-up time and duration of boiler operation towards energy conservation	• Company maintains its own records and monitors the ambient air and flue gas emission within premises periodically. Monitoring of ambient air & flue gas analysis is done by Siddhi Green Excellence Pvt Ltd., Ankleshwar. • Work place monitoring to be carried out periodically by Siddhi Green Excellence Pvt Ltd., Ankleshwar. • Unit has developed & maintained greenbelt area inside the factory. • Unit is having closed system for loading and unloading of chemicals. • Unit is maintaining records for the fuel consumption, start-up time and duration of boiler operation towards energy conservation
3	For Water Environment Management • To investigate possibilities of water reuse and recycling for reducing water consumption and wastewater generation • Records of water consumption, effluent generation, effluent discharge, water characteristics, treated and untreated effluent characteristics to be maintained. • 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&A of GPCB. • The effluent collection and discharge drainages, effluent handling and treatment systems to be maintained and regularly monitored to prevent leakages or sudden break-down. • Proper house-keeping to be adopted to prevent spillages and contaminated surface runoff going to storm water drains.	• Reuse and recycling options are being investigated together with feasibility of rainwater harvesting • Unit is maintaining records of water consumption, effluent generation, effluent discharge, water characteristics, treated and untreated effluent characteristics. • 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&A of GPCB. • 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. • Good house-keeping have been implemented by the unit to prevent spillages and contaminated surface

		runoff going to storm water drains.
4	For Hazardous / Non-hazardous waste management • Proper storage and handling arrangements in compliance to the conditions of authorization granted by SPCB. • Proper signboards to be provided at relevant places. • All the necessary regulatory procedures as per the amended Hazardous Waste Management & Handling Rules – 2003 to be followed and adhered with. • The transportation of hazardous waste to the TSDF Site to be as per the guidelines and accompanied with Form-9. • 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.	• Unit has a separate ware house for storage of raw materials, solvents and finished goods with proper handling equipments. • Signboards are provided at relevant places. • Unit is following the same as per the amended Hazardous Waste Management & Handling Rules – 2016 • Unit is following guideline for transportation of hazardous waste to TSDF & CHWIF of M/s. BEIL./ Safe Enviro / SEPPIL etc. • 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.

Note: Environment Statement – Form V (Financial year -2021-2022) is attached as Annexure-5.

7	Production details during compliance period and (or) during the previous financial year	:	**Production Details** **Month** / **Quantity (MTM)** June 2022 / 14.128 July 2022 / 0.000 August 2022 / 0.000 September 2022 / 0.000 October 2022 / 0.000 November 2022 / 0.000
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)

	price reference		
	b]. Allocation made for environmental management plans with item wise and year wise break-up.	:	As follows

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**

	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	:	615 Lakh
	f] Actual expenditure incurred on the Environmental Management Plan so far		137 Lakh
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	:	13/07/2022

	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.

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: 25th November 2019

<table>
<tr><th>Sr. No.</th><th>Conditions</th><th>Compliance Status</th></tr>
<tr><td>2.</td><td>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).</td><td>Details attached as below:</td></tr>
<tr><td>3.</td><td>The details of products are as under:-
<table>
<tr><th>S. N0</th><th>Name of Product*</th><th>Existing (TPA)</th><th>Proposed (TPA)</th><th>Total (TPA)</th></tr>
<tr><td>1.</td><td>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.</td><td>800 TPA</td><td>---</td><td>800TPA</td></tr>
<tr><td>2.</td><td>STROBILURIN: - AZOXYSTROBIN TECH. (F), DES-METHOXYAZOXY (DMA) (INT.) KRESOXIM METHYL (F), FLOUXASTROBIN (F), PYRACLOSTROBIN (F).</td><td>1200 TPA</td><td>---</td><td>1200 TPA</td></tr>
<tr><td>3.</td><td>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.</td><td>225 TPA</td><td>---</td><td>225 TPA</td></tr>
<tr><td>4.</td><td>KETONE: - DIMETHOMORPH TECH. (F), CLETHODIM (H), BUTROXYDIM (H), SPIROMESIFEN (I), MESOTRIONE (H), SULCOTRIONE (H), IBP (INT.), (ISOBUTYROPHENONE), PYMETROZINE (I) etc.</td><td>60 TPA</td><td>---</td><td>60 TPA</td></tr>
<tr><td>5.</td><td>ETHER: - PROPARGITE TECH. (I), OXYFLUORFEN (H), ETOXAZOLE (I), EEA (INT.), (2-ETHOXY ETHYL AMINE), S-CYNO-</td><td>60 TPA</td><td>---</td><td>60 TPA</td></tr>
</table></td><td>Complied.

Production data as per existing CTO is as below:
<table>
<tr><td colspan="2">Production Details of Compliance period: June 2022 to November 2022</td></tr>
<tr><th>Month</th><th>Quantity (MT/Month)</th></tr>
<tr><td>June 2022</td><td>14.128</td></tr>
<tr><td>July 2022</td><td>0.000</td></tr>
<tr><td>August 2022</td><td>0.000</td></tr>
<tr><td>September 2022</td><td>0.000</td></tr>
<tr><td>October 2022</td><td>0.000</td></tr>
<tr><td>November 2022</td><td>0.000</td></tr>
</table></td></tr>
</table>

Compliance Report For Stipulated Conditions Of Environmental Clearance EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25th November 2019						
Sr. No.	**Conditions**					**Compliance Status**
		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)**, EPOXYCONAZOLE **(F)**, TEBUCONAZOLE **(F)**, DIFENOCONAZOLE		---		

Compliance Report For Stipulated Conditions Of Environmental Clearance EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25th November 2019						
Sr. No.	**Conditions**					**Compliance Status**
		(F), HEXACONAZOLE **(F)**, TRICYCLAZOLE **(F)**, MYCLOBUTANIL **(F)**, FLUSILAZOLE **(F)**, PACLOBUTRAZOLE (PGR), THIAMETHOXAM **(I)**, CHLOROTHALONIL **(F)**, TRIADIMEFON **(F)**, ISOXADIFEN-ET (SF)				
	12	HETROCYCLIC (PYRIMIDINE/PYRIDINE/TRIAZINE): - BISPYRIBAC-NA TECH. **(H)**, PIRIMICARB **(I)**, 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	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.				
	14	UREA/ SULPHONYL UREA: - CHLORIMURON-ET TECH. **(H)**, BUPROFEZIN TECH. **(I)**, INDOXACARB **(I)**, NOVALURON **(I)**, LUFENURON **(I)**, DIAFENTHIURON **(I)**, AMICARBAZONE **(H)**, FLUCARBAZONE **(H)**, THIADIAZURON (PGR), HEXYTHIAZOX **(I)**, LINURON **(H)**, DIURON **(H)**, TEFLUTHRIN **(I)**, METSULFURON-METHYL **(H)**	225 TPA	---	225 TPA	
	15	UREA/SULPHONYL UREA: - THIFENSULFURON-METHYL **(H)**, TRIBURON-METHYL **(H)**, RIMSULFURON **(H)**, IODOSULFURON **(H)**, DIAMURON **(H)**, CHLORSULFURON **(H)**, PYRAZOLESULFURON **(H)**, PYRAZOLESULFURON-ETHYL **(H)** etc.				
	16	4s ZETA CYPERMETHRIN	---	200	200	
	17	F-2700 ZETA CYPERMETHRIN	---	1000	1000	

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

Sr. No.	Conditions	Compliance Status
	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:

Compliance Report For Stipulated Conditions Of Environmental Clearance EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25th November 2019		
Sr. No.	**Conditions**	**Compliance Status**
5.	There are no National parks, Wildlife sanctuaries, Biosphere, Reserves, Tiger/Elephant Reserves, and Wildlife	Unit is located in Panoli Notified GIDC Industrial Estate.

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

Sr. No.	Conditions	Compliance Status
	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 wastewater 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 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.	Total water consumption data as per existing CTO is as below: **Month** / **Quantity KL/Month** / **Limit as per CC&A** June 2022: 1272 July 2022: 143 August 2022: 710 September 2022: 1233 October 2022: 1203 November 2022: 2062 **462 KL/ Day** Total wastewater generation which is treated in RO & MEE Plant and maintain ZLD is as below: **Month** / **Quantity KL/Month** / **Limit as per CC&A** June 2022: 447 July 2022: 280 August 2022: 319 September 2022: 353 October 2022: 363 November 2022: 293 **255 KL/Day** Fuel Consumption of existing utilities as per CC&A is given as below: **Month** / **Quantity NM3** June 2022: 8567 July 2022: 1094 August 2022: 1635 September 2022: 7147

Compliance Report For Stipulated Conditions Of Environmental Clearance EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25th November 2019		
Sr. No.	**Conditions**	**Compliance Status**
		October 2022: 886 November 2022: 4218
	 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 8th April, 2018. Public hearing is exempted in accordance with the Ministry's OM dated 27th 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 27th 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 31st October 2019 and Ministry's communication No. Q-16017/38/2018-CPA dated 24th October 2019 regarding compliance of Hon'ble NGT order dated 19.8.2019 (published on 23.8.2019) in OA No. 1038/2018.	Noted.
11.	Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for **Expansion of agrochemicals and their intermediates from 3533 TPA to 15583 TPA by M/s. Cheminova India Limited (Technical Division) at Plot Nos. 241, 242/2, 241/P, GIDC Industrial Estate, Panoli, Ankleshwar, District Bharuch (Gujarat),** under the provisions of the EIA Notification, 2006, read with subsequent amendments therein,	Noted.

Compliance Report For Stipulated Conditions Of Environmental Clearance EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25th November 2019		
Sr. No.	**Conditions**	**Compliance Status**
	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 24th October, 2019 and forwarded by Central Pollution Control Board vide letter dated 25th 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 4th June 2020. CTO Amendment granted by GPCB on 7th September 2022.Copy attached as Annexure 3.
	(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 from the GPCB.
	(iv) As proposed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged to any surface water body, sea and/or on land.	Unit has obtained CC&A Amendment No. AWH-120778 on dated 8th August 2022. And also maintain ZLD.
	(v) National Emission Standards for Pesticides Manufacturing Industry issued by the Ministry vide G.S.R.446(E) dated 13th 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_{50}<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_{50}<100 mg/kg shall be produced and no prohibited raw material/solvent shall be used for production.
	(vii) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	Unit shall follow the given condition.
	(viii) Solvent management shall be carried out as follows : a. Reactor shall be connected to chilled brine condenser system. b. Reactor and solvent handling pump shall have mechanical seals to prevent leakages. c. The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery.	All requirements of effective Solvent management Plan shall be implemented.

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

Sr. No.	Conditions	Compliance Status
	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.	Complied. Fresh water consumption data is as below: **Month** / **Quantity KL/Month** June 2022 / 1272 July 2022 / 143 August 2022 / 710 September 2022 / 1233 October 2022 / 1203 November 2022 / 2062
	(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: **Hazardous Waste Name** / **Disposal Quantity** / **Disposal mode** Process organic residue & spent carbon / 7.645 / Co-Processing ETP sludge / 14.925 / TSDF site Process inorganic & evaporation salt / 30.055 / 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

Compliance Report For Stipulated Conditions Of Environmental Clearance EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25th November 2019		
Sr. No.	**Conditions**	**Compliance Status**
		Hazardous chemicals and guidelines of the Motor Vehicle Act, 1989 shall be followed.
	(xiv) The company shall undertake waste minimization measures as below:- a. Metering and control of quantities of active ingredients to minimize waste. b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. c. Use of automated filling to minimize spillage. d. Use of Close Feed system into batch reactors. e. Venting equipment through vapour recovery system. f. Use of high pressure hoses for equipment clearing to reduce wastewater generation.	Unit shall follow the given condition.
	(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. Fund allocation for 2022 CER/CSR jobs for both Technical & Intermediate are as follow: • Providing skill training and support for women empowerment to Kharod village = 6.50 lakh = completed in June2022 • Providing skill training and support for women empowerment to Sanjali village = 6.50 lakh = completed in June2022 • Providing streetlight and solar roof top to Umarwada village as sustainable solution = 25 lakh = Completed in May2022 • Sponsorship of Cricket tournament trophy to kharod village to encourage sports activities in young generation= 1.15 lakh = completed in June22 Total Fund Allocation In CER= 39.15 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:

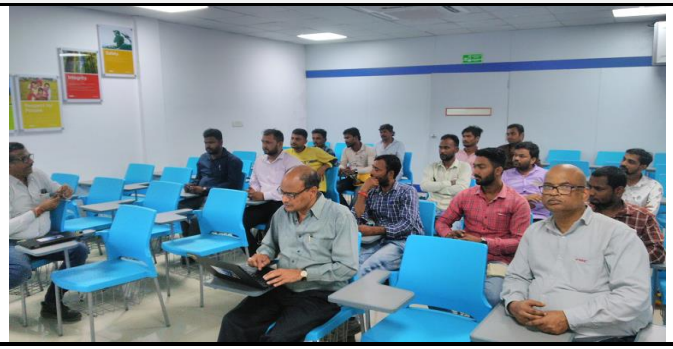
Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25th November 2019

Sr. No.	Conditions			Compliance Status
	Sr. No	**Training Subject**	**Trainee Roles**	**Department**
	1.	Hot Work	General Awareness	
			(1) Fire Watch	Security Person/Contract Supervisor/ Trainees
	2.	Confined Space Entry	General Awareness	All Department
			(1) Rescue Team	Employees selected by
				Production and Mechanical Dept
	3.	Energy Isolation, Lockout/Tagout (LOTO)	General Awareness	Finance / Administration / Civil
			(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

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

Sr. No.	Conditions			Compliance Status
				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
		FMC Laboratory Minimum Safety Standards: Chemical Storage	Detailed Training	QC and R&D Department
		FMC Laboratory Minimum Safety Standards: Fume Hoods	Detailed Training	QC and R&D Department
	11.	Glove Use Standard	Detailed Training	All Department /visitors /contractors
	12.	PPE	Detailed Training	All Department /visitors /contractors
	13.	MOC	Detailed Training	All Department
	14.	Incident Management standard,	Detailed Training	All Department
		Effective Injury and		
		Illness Case		
		Management Guideline		
	15.	Process Safety Module	Detailed Training	Manufacturing / Engineering /
	16.	No-1 and No-2		Technical Services

Photographs of trainings:

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

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

Siddhi Green Excellence PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/CILTD/ST/JUL/2022/08 — Date of Issue : 15-07-2022

Issued to	M/s. CHEMINOVA INDIA LTD. (TECHNICAL DIV.)
Address	PLOT NO.241, GIDC ESTATE:PANOLI, TA: ANKLESHWAR,DIST: BHARUCH-394116

SR.NO.	DESCRIPTION	FLUE GAS STACK EMISSION ANALYSIS
	Particulars of Sample	**Stack No.2**
1	PCB ID of Stack	8822
2	Sample ID	23633-FS-01
3	Name of Stack	D.G.SET (1250 KVA)
4	Source	D.G.SET (1250 KVA)
5	Date & Time of sampling	08-07-2022 & 13:40 h
6	Date of Receipt	08-07-2022
7	Date of Analysis start	09-07-2022
8	Date of Completion	11-07-2022

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

	Details of Stack	
1	Stack Height	11 m
2	Stack Diameter	8 inch
3	Temperature of Flue gas	119°C
4	Velocity of Flue gas	8.2 m/s
	Details of Flue Gas	
1	Type of Fuel	HSD
2	Rate of Consumption	90 L/h

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE 2)	RESULTS
1	PM @ 12% CO2	mg/Nm3	IS:11255 (Part 1)-1985	120	65
2	SO2	ppm	IS:11255 (Part 2)-1985	80	13
3	NOx	ppm	IS:11255 (Part 7)-2005	40	28
4	CO	mg/Nm3	SC/LAB/STP/STK-05	-	16

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

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :- None

Copy 1 of 2

Verified by — Authorised Signatory — Mrs. K. P. Shah / Mr. 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 lab's website with period of validity. If non accredited parameters are analysed, their 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 complaint redressal system. Discrepancies if any in the test report must be brought to notice within 7 days of issue of test report.
7. This report shall not be used as evidence in the court of law and shall not be reproduced except in full, without prior written approval of Siddhi Green Excellence Pvt. Ltd.

*** End of Report ***

Format No. : SC/LAB/F/Report-03 Issue No. : 02 Issue Date : 31-01-2015 Revision No : 03 Revision Date : 09-04-2022 page 1 of2

www.siddhigreen.com

GUJARAT'S 1ST PLASTICS PARK WITH ZERO EFFLUENT DISCHARGE BY GIDC

: Regd. Office : "Kamal Arcade - The Vertical Sunclock" Comm. Plot No. C-3/3, GIDC Station Road, Ankleshwar - 393 002. Dist. Bharuch, Gujarat State, (India). Tele. : 02646 - 224805, 223805 E-mail : siddhi.ank@gmail.com

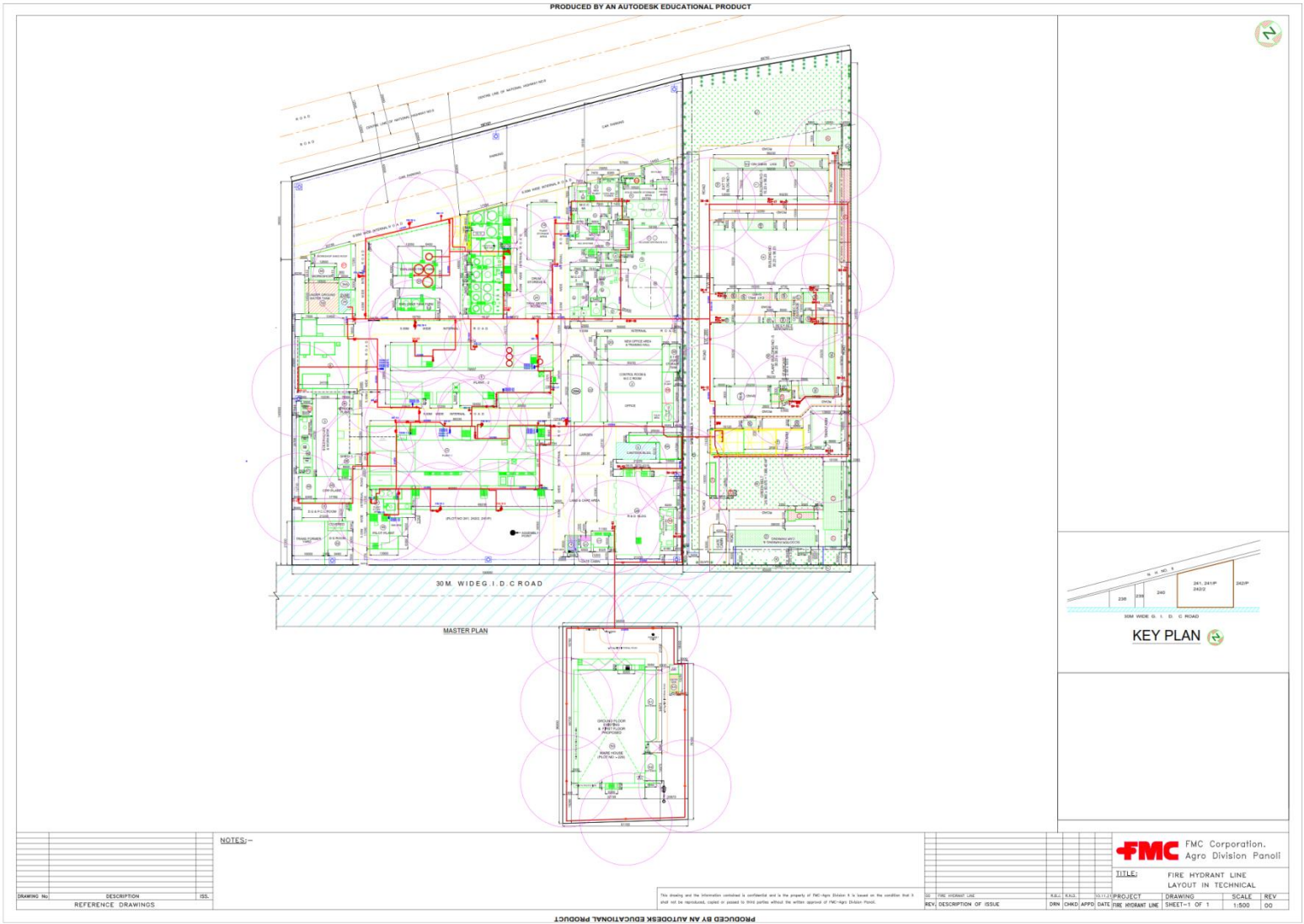
: Dahej Off. : "SANSKARAVENUE"SHOP NO. GF 37, P.O. JOLVA, TA. VAGRA, DIST. BHARUCH TELE : 02641 - 254041

	(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

Compliance Report For Stipulated Conditions Of Environmental Clearance EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25th November 2019		
Sr. No.	**Conditions**	**Compliance Status**
		hydrant system and fire extinguisher is made available throughout the premises and safe practices are adopted for handling and processing of flammable material

Compliance Report For Stipulated Conditions Of Environmental Clearance

EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25th November 2019

Sr. No.	Conditions	Compliance Status
		

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

Compliance Report For Stipulated Conditions Of Environmental Clearance

EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25th November 2019

Sr. No.	Conditions	Compliance Status

MAHAVIR DIAGNOSTIC CENTRE

EARLY DIAGNOSIS IS BETTER THAN CURE

95/3/1, Opp. K.M. Munshi Hall, Manav Mandir, New Colony, GIDC, Ankleshwar - 393 002
Phone : (02646) 252511
E-mail: dramitshah@yahoo.com

Dr. Amit R. Shah M.B.B.S., A.F.I.H.
Dr. Prasmit Shah MD (PATH), A.F.I.H., M.E.S.F.

- Medical Advisor & Industrial Health Consultant
- Pre-Employment/Periodical Medical Examination
- Pre-Placement Medical Examination
- Executive Health Check-up
- Computerised Audiometry, Spirometry, ECG
- Computerised Pathological Labouratory
- First Aid Training, ST. John Ambulance Association
- Sonography, X-ray
- Tmt. Echo
- Authorised for medical examination of seafarers

CHEMINOVA INDIA LIMITED GIDC PANOLI (FMC SUBSIDARY) 7

NAME: Mr. Jijabrao V Sonawane DATE: 26/09/2022
EMP CODE:: 147250 DEPT: Site-1 UNIT: Environment
AGE: 50 Years WEIGHT: 60 Kg HEIGHT: 162 cm PULSE: 76/min BP: 110/ 70 mmHg
VISION : RIGHT LEFT
NEAR : N/ 6 N/ 6 WITH SPECTS
FAR : 6/ 6 6/ 6
COLOR VISION : ACCEPTABLE

BLOOD EXAMINATION

PARAMETERS	FINDINGS	UNITS	NORMAL VALUES	PARAMETERS	FINDINGS	UNITS	NORMAL VALUES
HAEMOGLOBIN	13.1	gms/dl	[M:12-17, F:11-16]	BL.SUGAR [R]	93	mg/dl	[80 - 130]
WBC COUNT	5500	/cmm	[4000 - 11000]	S. CHOLESTEROL	187	mg/dl	[150 - 250]
NEUTROPHILS	70	%	[40 - 75]	S. G.P.T.	20	u/l	[4 - 36]
LYMPHOCYTES	29	%	[20 - 40]	S.CREATININE	1.1	mg/dl	[0.7 - 1.5]
EOSINOPHILS	0	%	[01 - 06]	RBC Count	5.00	lacs/cu.mm	[4.5 - 6.5 lacs]
MONOCYTES	1	%	[02 - 07]	PLATELETS	189000	/cu.mm	[1.5 - 4.5 lacs]
MCH	26.2	pg	[27 - 32]	BCA %	88.00	%	[> 72.5]
MCHC	27.3	%	[30 - 36]	RBC CHOLINESTERASE:	888	u/mill	[778 - 998]
PCV	47.9	%	[38 - 54]	BLOOD GROUP:	B	RH:	POSITIVE

URINE EXAMINATION

PHYSICAL:		CHEMICAL:		MICROSCOPIC:	
QUANTITY:	10 ML:	ALBUMIN:	Absent	RBC:	Absent
COLOUR:	PALE YELLOW	SUGAR:	Absent	PUS CELL:	1-2/hpf
APPERANCE:	CLEAR:	BILE SALT:	ABSENT:	CRYSTAL:	ABSENT:
DEPOSIT:	ABSENT:	BILE PIG:	ABSENT:	EPI CELLS:	Absent
		ACETONE:	ABSENT:	CAST:	ABSENT:

LUNG FUNCTION TEST

	RESULT	PREDICTED	%PRED
FVC	3.17	3.32	95
FEV1	3.07	2.81	109
PEF	7.33	8.84	83
FEF 25-75%	3.98	4.37	91

Spirometry Within Normal Limits.

AUDIOMETRY TEST

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

E.C.G.: WITHIN NORMAL LIMIT
REMARKS :
NOT SUFFERING FROM ANY INFECTIOUS OR OBNOXIOUS DISEASE

Dr. Amit Shah
Industrial Health Consultant
MBBS AFIH

MAHAVIR DIAGNOSTIC CENTRE

EARLY DIAGNOSIS IS BETTER THAN CURE

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- Pre-Placement Medical Examination
- Executive Health Check-up
- Computerised Audiometry, Spirometry, ECG
- Computerised Pathological Labouratory
- First Aid Training, ST. John Ambulance Association
- Sonography, X-ray
- Tmt. Echo
- Authorised for medical examination of seafarers

CHEMINOVA INDIA LIMITED GIDC PANOLI (FMC SUBSIDARY) 6

NAME: Mr. Kaiwlya Rajkumar Bhoyar DATE: 26/09/2022
EMP CODE:: 10000839 DEPT: Site-1 UNIT: Out Sourcing
AGE: 32 Years WEIGHT: 68 Kg HEIGHT: 169 cm PULSE: 92/min BP: 126/ 76 mmHg
VISION : RIGHT LEFT
NEAR : N/ 6 N/ 6
FAR : 6/ 6 6/ 6 WITH SPECTS
COLOR VISION : ACCEPTABLE

BLOOD EXAMINATION

PARAMETERS	FINDINGS	UNITS	NORMAL VALUES	PARAMETERS	FINDINGS	UNITS	NORMAL VALUES
HAEMOGLOBIN	13.8	gms/dl	[M:12-17, F:11-16]	BL.SUGAR [R]	90	mg/dl	[80 - 130]
WBC COUNT	7000	/cmm	[4000 - 11000]	S. CHOLESTEROL	188	mg/dl	[150 - 250]
NEUTROPHILS	60	%	[40 - 75]	S. G.P.T.	18	u/l	[4 - 36]
LYMPHOCYTES	35	%	[20 - 40]	S.CREATININE	0.8	mg/dl	[0.7 - 1.5]
EOSINOPHILS	2	%	[01 - 06]	RBC Count	4.60	lacs/cu.mm	[4.5 - 6.5 lacs]
MONOCYTES	3	%	[02 - 07]	PLATELETS	169000	/cu.mm	[1.5 - 4.5 lacs]
MCH	30.0	pg	[27 - 32]	BCA %	100.00	%	[> 72.5]
MCHC	28.0	%	[30 - 36]	RBC CHOLINESTERASE:	892	u/mill	[778 - 998]
PCV	49.3	%	[38 - 54]	BLOOD GROUP:	O	RH:	POSITIVE

URINE EXAMINATION

PHYSICAL:		CHEMICAL:		MICROSCOPIC:	
QUANTITY:	10 ML:	ALBUMIN:	Absent	RBC:	Absent
COLOUR:	PALE YELLOW	SUGAR:	Absent	PUS CELL:	Absent
APPERANCE:	CLEAR:	BILE SALT:	ABSENT:	CRYSTAL:	ABSENT:
DEPOSIT:	ABSENT:	BILE PIG:	ABSENT:	EPI CELLS:	Absent
		ACETONE:	ABSENT:	CAST:	ABSENT:

LUNG FUNCTION TEST

	RESULT	PREDICTED	%PRED
FVC	3.66	4.03	91
FEV1	3.46	3.41	101
PEF	8.28	7.32	113
FEF 25-75%	5.09	3.75	136

Spirometry Within Normal Limits.

AUDIOMETRY TEST

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

E.C.G.: WITHIN NORMAL LIMIT
REMARKS :
NOT SUFFERING FROM ANY INFECTIOUS OR OBNOXIOUS DISEASE

Dr. Amit Shah
Industrial Health Consultant
MBBS AFIH

Compliance Report For Stipulated Conditions Of Environmental Clearance EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25th November 2019			
Sr. No.		**Conditions**	**Compliance Status**
	(xxi)	Continuous online (24×7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.	Regular Monitoring of flue gas analysis is done by Siddhi Green 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.	The grant of environmental clearance is subject to compliance of other general conditions, as under:-		
1.	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:

Compliance Report For Stipulated Conditions Of Environmental Clearance

EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25th November 2019

Sr. No.	Conditions	Compliance Status

Siddhi Green Excellence PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/CILTD/AAQM/NOV/STATION-2/2022/89 Date of Issue : 17-11-2022

Issued to	M/s. CHEMINOVA INDIA LTD. (TECHNICAL DIV.)
Address	PLOT NO.241, GIDC ESTATE:PANOLI, TA: ANKLESHWAR,DIST: BHARUCH-394116

SR.NO.	DESCRIPTION	AMBIENT AIR QUALITY MONITORING
	Particulars of Sample	Station 2
1	Sample ID	25180-AQ-02
2	No. of samples	1
3	Date and time of start of sampling	10-11-2022 & 12:00 h
4	Date and time of completion of sampling	11-11-2022 & 12:00 h
5	Duration of Sampling in hrs.	24
6	Approx. ht. of sampling point in m	~ 3
7	Sampled by	Mr.Dilip
8	Date of Analysis	12-11-2022

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

	Details of Sampling Station	
1	Location	Nr. Storage Tank
2	Distance from plant site, Km	Inside Factory Premises
3	Predominant wind direction	NE-SW
4	Average wind speed, Kmph	8.5

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE-2)	RESULTS
1.	PM_{10}	µg/m3	IS 5182(Part 23):2006	100	74
2.	$PM_{2.5}$	µg/m3	IS 5182(Part 24):2019	60	28
3.	SOx	µg/m3	IS 5182(Part 2):2001	80	15
4.	NOx	µg/m3	IS 5182(Part 6): 2006	80	30

Additions to, deviations, or exclusions from the method :-None
Results from external providers, if any :- None

Any other remarks :-None Copy 1 of 2

Abbreviations used :- µg = Microgram

Verified by | Authorized Signatory

Mrs. K. P. Shah, Mr. 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 lab's website with period of validity. If non-accredited parameters are analysed, their 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 complaint redressal system. Discrepancies if any in the test report must be brought to notice within 7 days of issue of test report.
7. This report shall not be used as evidence in the court of law and shall not be reproduced except in full, without prior written approval of Siddhi Green Excellence Pvt. Ltd.

*** End of Report ***

Page 1 of 1

Format No. : SC/LAB/F/Report-05 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022

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GUJARAT'S 1ST PLATINUM CERTIFIED NEW GREEN INTERPRISE BY IGBC

: Regd. Office : "Kamal Arcade - The Vertical Sunclock" Comm. Plot No. C-3/3, GIDC Station Road, Ankleshwar - 393 002, Dist. Bharuch, Gujarat State, (India). Tele. : 02646 - 224805, 223805 E-mail : siddhi.ank@gmail.com

: 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/CILTD/AAQM/NOV/STATION-1/2022/87 Date of Issue : 10-11-2022

Issued to	M/s. CHEMINOVA INDIA LTD. (TECHNICAL DIV.)
Address	PLOT NO.241, GIDC ESTATE:PANOLI, TA: ANKLESHWAR,DIST: BHARUCH-394116

SR.NO.	DESCRIPTION	AMBIENT AIR QUALITY MONITORING
	Particulars of Sample	Station 1
1	Sample ID	25090-AQ-01
2	No. of samples	1
3	Date and time of start of sampling	33-11-2022 & 11:40 h
4	Date and time of completion of sampling	34-11-2022 & 11:40 h
5	Duration of Sampling in hrs.	24
6	Approx. ht. of sampling point in m	~ 3
7	Sampled by	Mr.Dilip
8	Date of Analysis	05-11-2022

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

	Details of Sampling Station	
1	Location	Nr. Main Gate area
2	Distance from plant site, Km	Inside Factory Premises
3	Predominant wind direction	NE-SW
4	Average wind speed, Kmph	8.7

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE-2)	RESULTS
1.	PM_{10}	µg/m3	IS 5182(Part 23):2006	100	79
2.	$PM_{2.5}$	µg/m3	IS 5182(Part 24):2019	60	27
3.	SOx	µg/m3	IS 5182(Part 2):2001	80	17
4.	NOx	µg/m3	IS 5182(Part 6): 2006	80	34

Additions to, deviations, or exclusions from the method :-None
Results from external providers, if any :- None

Any other remarks :-None Copy 1 of 2

Abbreviations used :- µg = Microgram

Verified by | Authorized Signatory

Mrs. K. P. Shah, Mr. P.M. Shah

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Page 1 of 1

Format No. : SC/LAB/F/Report-05 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022

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GUJARAT'S 1ST PLATINUM CERTIFIED NEW GREEN INTERPRISE BY IGBC

: Regd. Office : "Kamal Arcade - The Vertical Sunclock" Comm. Plot No. C-3/3, GIDC Station Road, Ankleshwar - 393 002, Dist. Bharuch, Gujarat State, (India). Tele. : 02646 - 224805, 223805 E-mail : siddhi.ank@gmail.com

: Dahej Off. : "SANSKAR AVENUE" SHOP NO. GF 37, P.O. JOLVA, TA. VAGRA, DIST. BHARUCH , TELE : 02641 - 254041

Compliance Report For Stipulated Conditions Of Environmental Clearance EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25th 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 16th 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 16th 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.

Compliance Report For Stipulated Conditions Of Environmental Clearance

EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25th November 2019

Sr. No.	Conditions	Compliance Status

Siddhi Green Excellence PRIVATE LIMITED

TEST REPORT OF AMBIENT NOISE MEASUREMENT

REPORT NO. : SC/CILTD/NL/NOV/2022/04 Date of Issue :24-11-2022

Issued to	M/s. CHEMINOVA INDIA LTD.(TECHNICAL DIV.)		
Address	PLOT NO.241, GIDC ESTATE:PANOLI, TA: ANKLESHWAR,DIST: BHARUCH-394116		
Site (where measured)	same as above	Sample ID	25309
Date of Monitoring	21-11-2022	Measured By	Mr.Dipak
Instrument used	HTC make Noise Level Meter (Model No. SL-1352)	Instrument ID	SC-NM-4
Frequency Weighing	A	Time Weighing	FAST
Procedure : As per Work Instruction of Instrument and as per IS-9989:1981, windcover used during measurement.			
Environmental Conditions:		Season	Winter

DAYTIME READINGS (6 AM TO 10 PM)			NIGHT TIME READINGS (10 PM TO 6 AM)		
Time and Duration of Monitoring	14:00 to 16:00 h		Time and Duration of Monitoring	23:00 to 01:00 h	
Average Ambient Temperature, °C	Average Wind speed, m/s	Predominant Wind direction	Average Ambient Temperature, °C	Average Wind speed, m/s	Predominant Wind direction
29	3.1	NE-SW	26	2.9	NE-SW
SR.NO.	LOCATION	READING NO.	NOISE LEVEL dB(A) DAY TIME	READING NO.	NOISE LEVEL dB(A) NIGHT TIME
1	Near Main Gate	NL-01	63	NL-11	57
2	Near ETP Area	NL-02	73	NL-12	68
3	Near CPP	NL-03	70	NL-13	66
4	Near Boiler	NL-04	71	NL-14	60
5	Near Utility	NL-05	70	NL-15	65
6	Near Azoxy Plant	NL-06	69	NL-16	61
7	Near ACP Plant	NL-07	67	NL-17	62
8	Near Fire Pump House	NL-08	67	NL-18	60
9	Near DG sets	NL-09	69	NL-19	63
10	Near Work Shop	NL-10	72	NL-20	67
Permissible Limit for industrial area as per schedule of Noise Pollution (Regulation and Control) Rules, 2000					
for Day Time In dB(A) Leq (6 AM TO 10 PM) : - 75			for Night Time In dB(A) Leq (10 PM TO 06 AM) : - 70		

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

Results from external providers, if any :-None

Any other remarks :- None

Abbreviations used :- None

COPY 2 OF 2

Verified by

Authorized Signatory

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

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Page 1 of 1

Format No. : SC/LAB/F/Report-06 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 05 Revision Date : 09-04-2022

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GUJARAT'S 1ST PLATINUM CERTIFIED NEW GREEN INTERIORS BY IGBC

: Regd. Office : "Kamal Arcade - The Vertical Sundeck" Comm. Plot No. C-3/3, GIDC Station Road, Ankleshwar - 393 002. Dist. Bharuch, Gujarat State, (India). Tele. : 02646 - 224805, 223805 E-mail : siddhi.ank@gmail.com

: Dahej Off. : "SANSKARAVENUE"SHOP NO. GF 37, P.O. JOLVA, TA. VAGRA, DIST. BHARUCH . TELE : 02641 - 254041

Siddhi Green Excellence PRIVATE LIMITED

TEST REPORT OF AMBIENT NOISE MEASUREMENT

REPORT NO. : SC/CILTD/NL/AUG/2022/06 Date of Issue :30-08-2022

Issued to	M/s. CHEMINOVA INDIA LTD.(TECHNICAL DIV.)		
Address	PLOT NO.241, GIDC ESTATE:PANOLI, TA: ANKLESHWAR,DIST: BHARUCH-394116		
Site (where measured)	same as above	Sample ID	24264
Date of Monitoring	29-08-2022	Measured By	Mr.Dipak
Instrument used	HTC make Noise Level Meter (Model No. SL-1352)	Instrument ID	SC-NM-3
Frequency Weighing	A	Time Weighing	FAST
Procedure : As per Work Instruction of Instrument and as per IS-9989:1981, windcover used during measurement.			
Environmental Conditions:		Season	Monsoon

DAYTIME READINGS (6 AM TO 10 PM)			NIGHT TIME READINGS (10 PM TO 6 AM)		
Time and Duration of Monitoring	12:30 to 12:30 h		Time and Duration of Monitoring	00:00 to 01:00 h	
Average Ambient Temperature, °C	Average Wind speed, m/s	Predominant Wind direction	Average Ambient Temperature, °C	Average Wind speed, m/s	Predominant Wind direction
28	2.4	SW-NE	25	2.3	SW-NE
SR.NO.	LOCATION	READING NO.	NOISE LEVEL dB(A) DAY TIME	READING NO.	NOISE LEVEL dB(A) NIGHT TIME
1	Near Main Gate	NL-01	65	NL-11	57
2	Near ETP Area	NL-02	61	NL-12	54
3	Near CPP	NL-03	70	NL-13	64
4	Near Boiler	NL-04	71	NL-14	60
5	Near Utility	NL-05	69	NL-15	53
6	Near Azoxy Plant	NL-06	67	NL-16	56
7	Near ACP Plant	NL-07	66	NL-17	57
8	Near Fire Pump House	NL-08	65	NL-18	55
9	Near DG sets	NL-09	62	NL-19	57
10	Near Work Shop	NL-10	68	NL-20	62
Permissible Limit for industrial area as per schedule of Noise Pollution (Regulation and Control) Rules, 2000					
for Day Time In dB(A) Leq (6 AM TO 10 PM) : - 75			for Night Time In dB(A) Leq (10 PM TO 06 AM) : - 70		

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

Results from external providers, if any :-None

Any other remarks :- None

Abbreviations used :- None

COPY 1 OF 2

Verified by

Authorized Signatory

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

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*** End of Report ***

Page 1 of 1

Format No. : SC/LAB/F/Report-06 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 05 Revision Date : 09-04-2022

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GUJARAT'S 1ST PLATINUM CERTIFIED NEW GREEN INTERIORS BY IGBC

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

Sr. No.	Conditions	Compliance Status
	VI. The company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	Photographs of Rain water harvesting arrangements are as given below:

Rain water Harvesting Details	
Technical Division	
Month	**Rain water (KL)**
Jun-22	**74**
Jul-22	**228**
Aug-22	**421**
Sep-22	**147**
Oct-22	**34**
Nov-22	**0**
Total	**904**

	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 Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	Unit commits that funds earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.

Compliance Report For Stipulated Conditions Of Environmental Clearance EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25th November 2019			
Sr. No.		**Conditions**	**Compliance Status**
	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 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.	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 http://moef.nic.in. This shall be advertised within seven days from the data 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:

Compliance Report For Stipulated Conditions Of Environmental Clearance EC Order No. IA-J-11011/85/2018-IA-II(I) Date: 25th November 2019		
Sr. No.	**Conditions**	**Compliance Status**
	 PUBLIC NOTICE ENVIRONMENTAL CLEARANCE It is hereby informed that the Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, Jorbagh Road, New Delhi has accorded Environmental Clearance for proposed expansion in existing premises for Agrochemicals and their Intermediates manufacturing unit of **M/s Cheminova India Limited (Technical Division) at** Plot nos. 241,242/2,241/P, Notified GIDC Industrial Estate, Panoli - 394 116, Ta. Ankleshwar, Dist Bharuch, State Gujarat. Vide letter dated 25/11/2019 [F.NO. IA-J-11011/85/2018-IA-II(I)] under the provision of EIA Notification dated 14th September 2006. Copies of Clearance Letter are available on Website of MoEF&CC (PARIVESH)- http://moef.nic.in **Dated 26/11/2019** **Authorized Signatory–SD–** જાહેર સૂચના / પર્યાવરણીય મંજૂરી આ સાથે જણાવવામાં આવે છે કે મિનિસ્ટ્રી ઓફ એન્વાયરમેન્ટ, ફોરેસ્ટ અને ક્લાઈમેન્ટ ચેન્જ દ્વારા મે. કેમિનોવા ઈન્ડિયા લિમિટેડ (ટેક્નિકલ ડિવિઝન) પ્લોટ નંબર - ૨૪૧, ૨૪૨/૨, ૨૪૧/P, નોટીફાઈડ જી.આઈ.ડી.સી. ઈન્ડસ્ટ્રીયલ એસ્ટેટ, પાનોલી-૩૯૪ ૧૧૬, તાલુકાઃ અંકલેશ્વર, ડિસ્ટ્રિક્ટ. ભરૂચ, સ્ટેટઃગુજરાત ખાતે હાલનુ એકમ સૂચિત એગ્રોકેમિકલ્સ તથા તેના ઈન્ટરમીડિયેટ્સ ના વિસ્તરણ માટેની પર્યાવરણીય મંજૂરી નવેમ્બર, ૨૫, ૨૦૧૯ ના પત્ર દ્વારા [ફાઈલ ક્રમાંક IA-J-11011/85/2018-IA-II(I)] ઈ.આઈ.એ. નોટિફીકેશન તારીખ ૧૪ સપ્ટેમ્બર ૨૦૦૬ની જોગવાઈ હેઠળ આપેલ છે. પર્યાવરણીય મંજૂરીના પત્રની નકલ MoEF&CC (PARIVESH) ની વેબસાઈટ (http://moef.nic.in) ઉપર ઉપલબ્ધ છે. તારીખઃ ૨૬/૧૧/૨૦૧૯ સહીઃ--	
	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.

Annexure 2 -Compliance report of CC&A

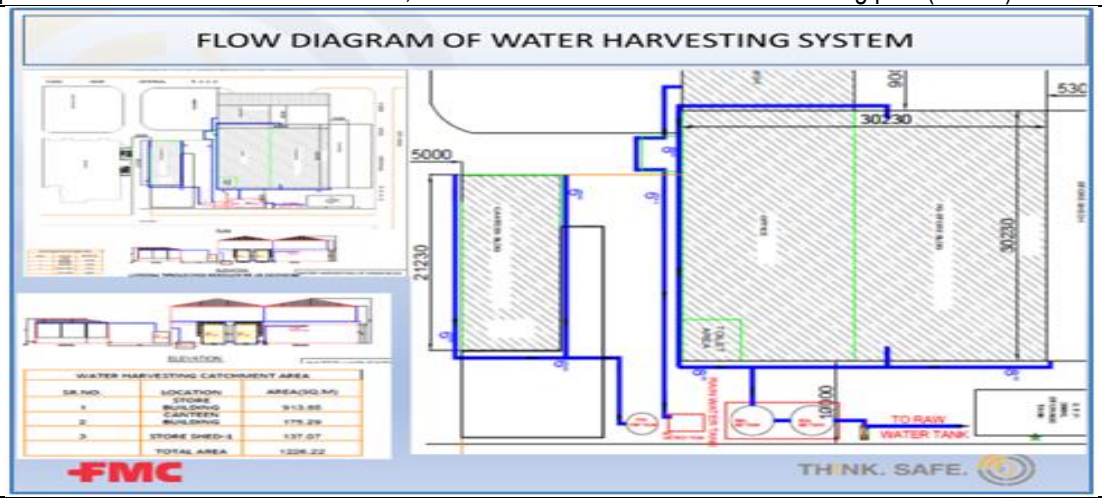
<table>
<tr><th>Sr. No.</th><th>Consent Condition Requirement</th><th>Compliance Status</th></tr>
<tr><td>1</td><td>Consent order No.: AWH-120778 Date of Issue: 08/8/2022, valid up to 16/04/2027.</td><td></td></tr>
<tr><td>2</td><td>The consent under Water Act-1974, Air Act- 1981 and Authorization under Environmental (Protection) Act, 1986 shall be valid up to 16/04/2027 to operate industrial plant to manufacture following products:
<table>
<tr><th rowspan="2">Sr. No.</th><th rowspan="2">Name of Products</th><th colspan="3">Quantity (MT/Month)</th></tr>
<tr><th>Existing</th><th>Proposed</th><th>Total</th></tr>
<tr><td>1.</td><td>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.</td><td>Either individual or total production of this group shall not exceed 225 MT/Annum</td><td>--</td><td>Either individual or total production of this group shall not exceed 225 MT/Annum</td></tr>
<tr><td>2.</td><td>KETONE: -DIMETHOMORPH TECH. (F), CLETHODIM (H), BUTROXYDIM (H), SPIROMESIFEN (I), MESOTRIONE (H), SULCOTRIONE (H), IBP (INT.)-(ISOBUTYROPHENONE), PYMETROZINE (I) etc.</td><td>Either individual or total production of this group shall not exceed 60 MT/Annum</td><td>--</td><td>Either individual or total production of this group shall not exceed 60 MT/Annum</td></tr>
<tr><td>3.</td><td>ETHER: - PROPARGITE TECH. (I), OXYFLUORFEN (H), ETOXAZOLE (I), EEA (INT.)-(2-ETHOXY ETHYL AMINE), S-CYNO-MPB (INT.) etc.</td><td>Either individual or total production of this group shall not exceed 60 MT/Annum</td><td>--</td><td>Either individual or total production of this group shall not exceed 60 MT/Annum</td></tr>
<tr><td>4.</td><td>ESTER/PYRETHROID: - FENOXAPROP-P-ETHYL TECH. (H), BIFENAZATE (I), QUIZALOFOP-P-ET (H), CLODINAFOP-PPG (H), ACRINATHRIN (I), BIFENTHRIN (I),</td><td>Either individual or total production of this group shall not exceed 150 MT/Annum</td><td>--</td><td>Either individual or total production of this group shall not exceed 150 MT/Annum</td></tr>
</table></td><td>Unit is complying with the given condition. Monthly production details are as mentioned below:
<table>
<tr><th colspan="2">Production Details</th></tr>
<tr><th>Month of year 2022</th><th>Quantity (MTM)</th></tr>
<tr><td>June</td><td>14.128</td></tr>
<tr><td>July</td><td>0.000</td></tr>
<tr><td>August</td><td>0.000</td></tr>
<tr><td>September</td><td>0.000</td></tr>
<tr><td>October</td><td>0.000</td></tr>
<tr><td>November</td><td>0.000</td></tr>
</table></td></tr>
</table>

Sr. No.	Consent Condition Requirement					Compliance Status
		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.				
	5.	CARBAMATE & THIO BASED PRODUCTS: - CARTAP.HCL TECH. (I), THIODICARB (I), THIOPHANATE-ME (F), PROPINEB (F), METIRAM (F), THIRAM (F), ISOPROTHIOLANE TECH (I), THIOCYCLAM (I), PROTHIOCARB (F), FLUTIANIL (F) etc.	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	
	6.	QUATERNARY SALT AND OTHER SALTS, ACID BASED PRODUCTS: - MEPIQUAT CHLORIDE TECH. (I), CHLORMEQUAT CHLORIDE (I), OTHER SALTS: COPPER HYDROXIDE (BACTERICIDE,F), COPPER SULPHATE (ALGICIDE,F), etc., FLUPROPANATE-NA TECH (H) + HPAA (INT.)-(2-HYDROXYPHENYLACETIC ACID), BBA (INT.)-(BROMOBUTYRICACID), HPPA-INT.(2-(4-HYDROXYPHENOXY)PROPANATE), PICLORAM (H), DICAMBA (H), 2-CYANOPHENOL (INT.) etc	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	
	7.	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 shall not exceed 400 MT/Annum	--	Either individual or total production of this group shall not exceed 400 MT/Annum	
	8.	TRIAZOLS: - FIPRONIL TECH (I), PROPICONAZOLE (F), EPOXYCONAZOLE (F), TEBUCONAZOLE (F), DIFENOCONAZOLE (F), HEXACONAZOLE (F), TRICYCLAZOLE (F),				

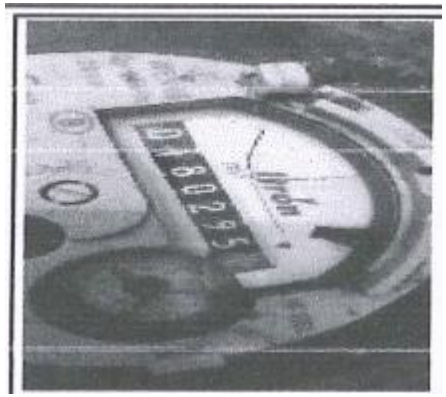
Sr. No.	Consent Condition Requirement					Compliance Status
		MYCLOBUTANIL (F), FLUSILAZOLE (F), PACLOBUTRAZOLE (PGR), THIAMETHOXAM (I), CHLOROTHALONIL (F), TRIADIMEFON (F), ISOXADIFEN-ET (SF)				
	9.	HETROCYCLIC (PYRIMIDINE/PYRIDINE/TRIAZINE): - BISPYRIBAC-NA TECH. (H), PIRIMICARB (I), PYRITHIOBAC-NA (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 shall not exceed 185 MT/Annum	--	Either individual or total production of this group shall not exceed 185 MT/Annum	
	10.	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.				
	11.	Ryanxypyr	935	--	935	
	12.	Isoxazolidinone sodium solution/ Isoxazolidinone/ FMC – 57091 (100%)	650	2600	3250	
	13.	4S Zeta cypermethrin	150	--	150	
	14.	F-2700 Zeta cypermethrin				
	15.	Natural gas based captive power plant	2.04 MW/Hr	--	2.04 MW/Hr	
	SPECIFIC CONDITIONS					
a.	Unit shall comply with all the conditions stipulated by MoEF in the order of Environment Clearance issued vide letter no. IA-J-11011/85/2018-IA-II(I), dated:25/11/2019.					Complied.

Sr. No.	Consent Condition Requirement	Compliance Status
b.	Unit shall maintain ZLD	Complied.
c.	Unit shall not manufacture any banned pesticides as notified by Government time by time.	Complied.
d.	Unit shall use fresh raw materials only.	Unit is following this condition
e.	Unit shall sell out their hazardous waste to authorized end users having authorization with valid CCA and rule 9 permission to receive this waste. Unit shall make MoU with such authorized endusers 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.
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.	Unit will make attempts to fulfil this condition.
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.	Unit shall strictly follow the Solid Fuel guideline framed by Board and shall install APCM as per guideline.	Unit is following this condition.
i.	Unit shall strictly follow the Fly Ash Notification for disposal of generated ash.	Complied.
j.	Unit shall install online Continuous Emission Monitoring Systems (CEMS) and link it with the server of GPCB for real time data transfer for boiler more than 8 TPH capacity or equivalent capacity of TFH.	Unit will make attempts to fulfil this condition.
k.	Unit shall comply with additional condition for CPA/SPA areas as per GPCB office order dated: 11/11/2019.	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. **Flue gas Emission Standards** **Parameters** / **Existing** / **Revised norms (80% of Existing)** PM / 150 mg/Nm^3 / 120 mg/Nm^3 SO_2 / 100 PPM / 80 PPM NOx / 50 PPM / 40 PPM **Process gas Emission Standards** **Parameters** / **Existing** / **Revised norms (80% of Existing)** HCL / 20 mg/Nm^3 / 16 mg/Nm^3 SO2 / 40 mg/Nm^3 / 32 mg/Nm^3	Complied. Unit is following the given condition.
b)	Following air pollution control measures shall be provided for the flue gas emission sources like Boiler, Thermic Fluid Heaters etc. (As Applicable) (For solid fuel based utilities) **Stipulated APCM in Red category industrial units of CPA** **Steam generation capacity (in TPH)** / **Type of APCM** Less than 1 / Multi Cyclone	Noted.

Sr. No.	Consent Condition Requirement	Compliance Status
	1 to <3 — Multi Cyclone + Water Scrubber 3 to <6 — Bag filter + Water Scrubber ≥ 6 — ESP + Water Scrubber	
c)	Unit shall provide at least two stage scrubbing system of appropriate media for the control of the process gas emission.	All the scrubbers are equipped with double stage scrubbing system with appropriate media.
d)	Unit shall install and commission Continuous Emission Monitoring System- CEMS (as per CPCB guidelines for relevant parameters) which shall be connected with GPCB/ CPCB server (In case of large and medium red category industries)	Complied.
e)	All common facilities shall install CEMS (as per CPCB guidelines for relevant parameters) which shall be connected with GPCB/ CPCB server to the Stacks provided with common Multiple Effect Evaporator (CMEE), Common Spray Dryer, Common incinerator etc.	Not Applicable.
f)	The unit shall adhere to Sector specific guidelines/ SOP published by GPCB/ CPCB from time to time for effective fugitive emission control. (like guidelines for: Stone crushing units, Coal handling units, spent solvent handling and management, spent acid management, Decontamination of drums, containers etc.)	Noted. All the applicable SOP's published by GPCB/CPCB for effective fugitive emissions will be followed.
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>**	

Sr. No.	Consent Condition Requirement	Compliance Status
a)	Unit shall only use treated effluent for preparation of lime and other slurry in ETP. No fresh water shall be utilized in ETP.	Noted.
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.	Complied.
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.	Noted.
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 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.
e)	The unit shall explore Techno-Economic feasibility of Zero Liquid Discharge (ZLD) and if feasible, ZLD should be adopted.	Noted. Unit is maintain ZLD.
[C]	**Additional Conditions Under The Hazardous Wastes 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.	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	Complied.

<table>
<tr><th>Sr. No.</th><th>Consent Condition Requirement</th><th>Compliance Status</th></tr>
<tr><td></td><td>guidelines/ directions published from time to time by GPCB and/ or CPCB, etc.</td><td></td></tr>
<tr><td>d)</td><td>Unit shall carry out transportation of hazardous wastes through GPS mounted vehicles only.</td><td>All the transportation of hazardous wastes is done through GPS mounted vehicles only.</td></tr>
<tr><td>[D]</td><td><u>Other General Conditions</u></td><td></td></tr>
<tr><td>a)</td><td>Unit shall submit report of compliance of the conditions of EC every year to the Board prepared by third party.</td><td>Complied.</td></tr>
<tr><td>b)</td><td>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.</td><td>Noted.</td></tr>
<tr><td>3</td><td>CONDITION UNDER THE WATER ACT:</td><td></td></tr>
<tr><td>3.1</td><td>The quantity of total water consumption shall not exceed 462 KL/Day as per below break up as mentioned in form D submitted for consent application under Water Act- 1974.
<table>
<tr><th rowspan="2">Water (Qty: KL/day)</th><th colspan="3">Water Consumption</th></tr>
<tr><th>Existing</th><th>Proposed</th><th>Total</th></tr>
<tr><td>Domestic</td><td>50</td><td>10</td><td>60</td></tr>
<tr><td>Industrial</td><td>260.2</td><td>106.8</td><td>367</td></tr>
<tr><td>Gardening</td><td>--</td><td>35</td><td>35</td></tr>
<tr><td>Total</td><td>310.2</td><td>151.8</td><td>462</td></tr>
</table></td><td>Complied. Water consumption is well within limits as per the condition. Water consumption details for period 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>June 2022</td><td>1272</td></tr>
<tr><td>July 2022</td><td>143</td></tr>
<tr><td>August 2022</td><td>710</td></tr>
<tr><td>September 2022</td><td>1233</td></tr>
<tr><td>October 2022</td><td>1203</td></tr>
<tr><td>November 2022</td><td>2062</td></tr>
</table></td></tr>
<tr><td>3.2</td><td>The quantity of total waste water generation shall not exceed 294.5 KL/Day as per below break up as mentioned in form D submitted for consent application under Water Act- 1974.
<table>
<tr><th rowspan="2">Water (Qty: KL/day)</th><th colspan="3">Waste Water Generation</th></tr>
<tr><th>Existing</th><th>Proposed</th><th>Total</th></tr>
<tr><td>Domestic</td><td>33.2</td><td>6.3</td><td>39.5</td></tr>
<tr><td>Industrial</td><td>71.2</td><td>183.8</td><td>255</td></tr>
<tr><td>Total</td><td>104.4</td><td>190.1</td><td>294.5</td></tr>
</table></td><td>Unit is strictly following this condition for waste water generation.</td></tr>
<tr><td>3.3</td><td>Mode of disposal of wastewater:
a) Out of total 255 KLD industrial effluent, 35 KLD waste water generated from Boiler blow down and cooling blow down shall be directly reused for washing activity.
b) Remaining 220 KLD effluent shall be treated into ETP (P+S+T) followed by MEE and RO and treated effluent shall be reused for process and</td><td>Unit is strictly following this condition for waste water disposal.</td></tr>
</table>

<table>
<tr><th>Sr. No.</th><th>Consent Condition Requirement</th><th>Compliance Status</th></tr>
<tr><td></td><td>cooling tower. Hence, unit shall maintain ZLD.
OR
In case of in-house MEE is in maintenance unit shall send effluent to ACPTCL, Ankleshwar.
c) Sewage shall be 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><th>SR. NO.</th><th>PARAMETERS</th><th>PERMISSIBLE LIMIT</th></tr>
<tr><td>1</td><td>Biochemical Oxygen Demand, BOD_3, 27°C</td><td>20 mg/L</td></tr>
<tr><td>2</td><td>Total Suspended Solids</td><td>30 mg/L</td></tr>
<tr><td>3</td><td>Total Residual Chlorine</td><td>Minimum 0.5 ppm</td></tr>
</table></td><td></td></tr>
<tr><td>3.4</td><td>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.</td><td>Complied. Photographs attached below:</td></tr>
<tr><td></td><td> 
</td><td></td></tr>
<tr><td>3.5</td><td>The GIDC drainage connection given by the GIDC for discharge of industrial effluent shall be disconnected & the outlet shall be sealed.</td><td>Complied. Unit is following the given condition.</td></tr>
<tr><td>3.6</td><td>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.</td><td>Complied. Unit is following the given condition.</td></tr>
<tr><td>3.7</td><td>In case of incinerators, 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.</td><td>Incinerator is not in operation since C.Y. 2014.
Details of MEE are submitted on monthly basis.</td></tr>
</table>

Sr. No.	Consent Condition Requirement	Compliance Status
3.8	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.
3.9	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 June every year.	Complied.
3.10	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	The following shall be used as fuel.	Complied. Unit is following the given condition for fuel consumption.

Sr. No.	Name of fuel	Quantity		
		Existing	Proposed	Total
1	Natural Gas	15500 Sm^3/hr	--	15500 Sm^3/hr
2	HSD	2160 Lit/hr	2160 lit/hr	4320 Lit/hr

4.1.1	The flue gas emission through stack shall conform to the following standards:						Complied. Unit is following the given condition for flue gas stack emissions.
	Stack No.	**Stack Attached to**	**Capacity / Remarks**	**Stack Height (Mt)**	**Air Pollution Control Measures (APCM)**	**Parameters**	**Permissible Limits**
	Existing						
	1	Boiler	WHRB-Captive Power Plant	30	--	PM SO_2 NO_X	150 mg/Nm^3 100 ppm 50 ppm
	2	Boiler	10 TPH 5 TPH	30	--	PM SO_2 NO_X	150 mg/Nm^3 100 ppm 50 ppm
	3	D.G. Set	1250 KVA	11	--	PM SO_2 NO_X	150 mg/Nm^3 100 ppm 50 ppm

Sr. No.	Consent Condition Requirement	Compliance Status

4	Incinerator	Common vent of New & old Incinerator with Two stage Caustic scrubber system	45	Alkali Scrubber	**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
Particulates	50 mg/Nm^3	30 Minutes OR more (for sampling of 300 liters of emission)
HCl	50 mg/Nm^3	30 minutes
SO_2	200 mg/Nm^3	30 minutes
CO	100 mg/Nm^3	Daily average
Total Organic Carbon	20 mg/Nm^3	30 minutes
Total dioxins and furans	0.1 ng TEQ/ Nm^3	8 hours
Sb + As + Pb + Cr + Co + Cu + Mn + Ni + V + their compounds	1.5 mg/Nm^3	2 hours

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

Proposed

1	D.G. Set	1500 KVA	11	--	PM SO_2 NO_X	120 mg/Nm^3 80 ppm 40 ppm

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

Stack No.	Stack Attached to	Stack Height (Mt)	Air Pollution Control Measures (APCM)	Parameter	Permissible limits
Existing					
1	Reaction Vessels	25	Alkali Scrubber	HCl Chlorine	20 mg/Nm^3 9 mg/Nm^3
2	Reaction Vessels	25	Scrubber	HCl Chlorine	20 mg/Nm^3 9 mg/Nm^3

Complied. Unit is following the given condition for process gas stacks emissions.

<table>
<tr><th>Sr. No.</th><th>Consent Condition Requirement</th><th>Compliance Status</th></tr>
<tr><td></td><td>
<table>
<tr><td colspan="6">Proposed</td></tr>
<tr><td>1</td><td>R & D, Q.C. Laboratory</td><td>11</td><td>Caustic Scrubber</td><td>Acid Mist</td><td>-</td></tr>
<tr><td>2</td><td>Pilot Plant</td><td>11</td><td>Caustic Scrubber</td><td>HCl
SO2</td><td>16 mg/Nm3
32 mg/Nm3</td></tr>
</table>
</td><td></td></tr>
<tr><td>4.3</td><td>The concentration of the following parameters in the ambient air within the premises of the unit shall not exceed the limits specified hereunder.
<table>
<tr><th rowspan="2">Sr. No.</th><th rowspan="2">Parameters</th><th colspan="2">Permissible Limit (microgram /m^3)</th></tr>
<tr><th>Annual</th><th>24 Hours Average</th></tr>
<tr><td>1.</td><td>Particulate Matter (PM_{10})</td><td>60</td><td>100</td></tr>
<tr><td>2.</td><td>Particulate Matter ($PM_{2.5}$)</td><td>40</td><td>60</td></tr>
<tr><td>3.</td><td>Oxides of Sulphur (SO_x)</td><td>50</td><td>80</td></tr>
<tr><td>4.</td><td>Oxides of Nitrogen (NO_x)</td><td>40</td><td>80</td></tr>
</table>

Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.
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.
</td><td>Unit is putting efforts to compile with this condition thoroughly.</td></tr>
<tr><td>4.4</td><td>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.</td><td>Unit is following this condition.</td></tr>
<tr><td>4.5</td><td>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.</td><td>Unit is following this condition.</td></tr>
<tr><td>4.6</td><td>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.</td><td>Complied.</td></tr>
<tr><td>4.7</td><td>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.</td><td>Noted. Odor control measures are in place to control odor nuisance from specific activities.</td></tr>
<tr><td>4.8</td><td>All efforts shall be made to control VOC emissions and odor problem, if any.</td><td>Complied.</td></tr>
<tr><td>5.</td><td>GENERAL CONDITIONS:</td><td></td></tr>
<tr><td>5.1</td><td>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.</td><td>Noted.</td></tr>
<tr><td>5.2</td><td>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</td><td>Unit is putting efforts to implement</td></tr>
</table>

Sr. No.	Consent Condition Requirement	Compliance Status
	trees per acre of land and a green belt of 5 meters width is developed.	this condition thoroughly.
5.3	Unit shall put up at the entrance a board displaying the name of unit, particulars of the products/ process and the name of proprietor/partners /directors of the unit and the electricity consumer number as on the record of DGVCL.	Unit is following this condition.
6.	**AUTHORISATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES Form-2 (See rule 6(2)):**	
6.1	Number of authorization: **AWH-120778 date of issue 08/08/2022.**	Noted
6.2	**M/S. CHEMINOVA (INDIA) LTD. (TECH. DIV)** is hereby granted an authorization to operate facility for following hazardous waste on the premises situated at **PLOT NO.: 241 GIDC ESTATE PANOLI DIST: BHARUCH.**	Complied. Disposal of hazardous waste is as per granted quantity by GPCB.

Sr. No.	Type of Waste	Category	Quantity MT/ Annum			Mode of disposal & remarks
			As per Existing CC&A	Applied for CC&A amendment	Total after CC&A Renewal	
1.	Spent Solvents	20.2	500	-	500	Spent Solvent (MDC, EA, Acetone etc.): Co-processing, Collection, Recycling, incineration, storage, transportation, Recover & Reuse within industrial unit OR incineration to CHWIF at BEIL/ SEPPL OR Disposal by Sell out to authorized users having rule 9 Permission to receive this waste after making MOU.
			1200	-	1200	Stripped Solvent from Stripper: Co-processing, Collection, Recycling, Incineration, storage, transportation, 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 Permission to receive this waste after making MOU.
2.	Process wastes or residues	29.1	2311	-	2311	Co-processing, Collection, Generation Incineration, Storage, Transportation, Disposal to Common CHWIF Facility BEIL/SEPPL/RSPL/ Eco Waste/ Safe Enviro /Co-processing in cement industries
3.	Empty barrels/ containers/ liners contaminated with hazardous chemicals /	33.1	362.11	-	362.11	Collection, storage, Decontamination, Transportation and Disposal by reuse after in house decontamination or send it to authorized decontamination facility / recycler or send back to supplier.

Sr. No.	Consent Condition Requirement							Compliance Status
		wastes						
	4	Chemical sludge from waste water treatment	35.3	305	515	820	Collection, Disposal, Storage, Transportation and Disposal by send it to TSDF –BEIL / SEPPL/ Safe Enviro	
				1525	3500	5025	Evaporation Salt: Collection, Disposal, Storage, Transportation and Disposal at TSDF - BEIL / SEPPL/ Safe Enviro/ Eco Waste	
	5	Ash from incinerator and flue gas cleaning residue	37.2	720	-	720	Incinerator Ash: Collection, Disposal, Storage, Transportation and Disposal to Common TSDF facility BEIL/ SEPPL/ / Safe Enviro/ Eco Waste	
	6	Used or Spent Oil	5.1	0.36	-	0.36	Collection, Disposal, Storage, Transportation and Disposal by Reuse in plant & Machinery as lubricant or sell it to authorized refiners / recycler	
	7	Salts of Per-Acids	B36	18864	-15564	3300	Sodium Sulphate: Collection, Disposal, Storage, Transportation and Disposal by sell out to authorized users having rule 9 permission to receive this waste after making MoU.	
	8	Asbestos waste	15.1	-	100	100	Collection, Disposal, Storage, Transportation and Disposal to common TSDF at BEIL / SEPPL/ Safe Enviro/ Eco Waste.	
	9	Insulation waste – glass wool.	-	-	100	100		
	10	Paint residue, Spent solvent	21.1, 21.2	-	50	50	Collection, Disposal, Storage, Transportation, Sale to authorize traders, Decontamination Facility / scrap dealers. /Reuse Or Disposal at TSDF / CHWIF Facility at BEIL & SEPPL/ Safe Enviro/ Eco Waste	
	11.	Contaminated cotton rags or other cleaning materials	33.2	-	100	100	Collection, Disposal, Storage, Transportation and Disposal to common TSDF/ CHWIF facility at BEIL / SEPPL/ Safe Enviro/ Eco Waste	
	12	Non-Recyclable Plastic waste (PP / FRP)	-	-	100	100	Collection, Disposal, Storage, Transportation and Disposal to common TSDF at BEIL / SEPPL/ Safe Enviro/ Eco waste.	
	13	Date Expired/ off	29.3	-	500	500	Collection, Storage, Transportation Disposal at TSDF /	

Sr. No.	Consent Condition Requirement	Compliance Status
6.3	The authorization is granted to operate a facility as above.	Noted.
6.4	The authorization shall be in force for a period up to 16/04/2027.	Noted.
6.5	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.
7	**TERMS AND CONDITIONS OF AUTHORISATION:**	
7.1	The authorized person shall comply with the provisions of the Environment (Protection) Act-1986, and the rules made there under.	Complied.
7.2	The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Gujarat Pollution Control Board.	Noted.
7.3	The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.	Noted and agreed.
7.4	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.
7.5	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.
7.6	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.
7.7	It is the duty of the authorized person to take prior permission of the Gujarat Pollution Control Board to close down the facility.	Noted.
7.8	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.
7.9	The record of consumption and fate of the imported hazardous and other wastes shall be maintained.	Hazardous and other wastes are not imported.
7.10	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.

	Specification Product					CHWIF Facility at – BEIL & SEPPL/ Safe Enviro/ Eco Waste
14	Electronic waste.	31.1	-	100	100	Collection, Storage, Transportation & Sold to actual end user is having permission
15	Mother liquor / waste water	-	-	21.19 KLD	21.19 KLD	Collection, Disposal, Storage, Transportation and Sent to incineration in common incinerator facility at BEIL or Detox SEPPL OR Send it for co-processing to cement Industries OR Send to MEE at external facility- DETOX OR Send for dryer at external facility.

Sr. No.	Consent Condition Requirement	Compliance Status
7.11	The importer or exporter shall bear the cost of import or export and mitigation of damages, if any.	Hazardous and other wastes are not imported or exported.
7.12	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
7.13	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
7.14	Annual return shall be filed by June 30th for the period ensuring 31st March of the year.	Complied.
7.15	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.	Complied.
7.16	Unit shall have to display on 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.	Noted.
7.17	Unit shall have to manage used or spent oil; empty or discarded barrels / containers / liners contaminated with hazardous chemicals / wastes, process waste as per Hazardous & Other Wastes (Management and Transboundary Movement) Rules-2016, framed under the E(P)Act-1986 and shall apply Authorization for all applicable waste.	Noted. It will be implemented

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

EC Copy

By Speed Post/Online

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

Indira Paryavaran Bhawan
Jorbagh Road, New Delhi - 3

Dated: 25th 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

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 20th 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), Beflubutamide Tech (H), Flubendamide (I), Chlorantraniliprole (I), Rynexapyr (I), Cymoxanil (F), Thifluzamide (F), Carboxin (F), Captan (F), Pretilachlor	225 TPA	---	225 TPA

	(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.	60 TPA	---	60 TPA
5.	Ether: - Propargite Tech. (I), Oxyfluorfen (H), Etoxazole (I), EEA (Int.)-(2-Ethoxy Ethyl Amine), S-Cyno-MPB (Int.) etc.	60 TPA	---	60 TPA
6.	Aniline: - Pendimethalin Tech. (H), Metalaxyl (F), Famoxadone (F), Trifluralin (H), FIPA-OH (Int.) etc.	60 TPA	---	60 TPA
7.	Ester/Pyrethroid: - Fenoxaprop-P-Ethyl Tech. (H), Bifenazate (I), Quizalofop-P-ET (H), 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), 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

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	Captive Power Plant (Natural Gas)	**2.04 MW/Hr**	**---**	**2.04 MW/Hr**

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

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

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

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

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

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

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

8. Standard terms of reference (ToR) for the project was granted on 8th April, 2018. Public hearing is exempted in accordance with the Ministry's OM dated 27th 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.

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 31st October 2019 and Ministry's communication No. Q-16017/38/2018-CPA dated 24th 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 24th October, 2019 and forwarded by Central Pollution Control Board vide letter dated 25th 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 13th 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_{50}<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.

(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.

(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 16th 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

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.

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

(डा. आर. बी. लाल)
(Dr. R. B. LAL)
वैज्ञानिक 'ई' एवं सहायक निदेशक
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Ministry of Environment, Forest and Climate Change
भारत सरकार, नई दिल्ली
Government of India, New Delhi

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 -16
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

EC to CTE Copy

GPCB

GUJARAT POLLUTION CONTROL BOARD
PARYAVARAN BHAVAN
Sector-10-A. **Gandhinagar** 382010
Phone : (079) 23222425
(079) 23222152
Fax : (079) 23232156
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

Outward No:25867, 04/06/2020

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

Printed On: 03/06/2020 Page 1 of 1 GPCB ID : 15015

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

CTO Copy

GUJARAT POLLUTION CONTROL BOARD

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PARYAVARAN BHAVAN, SECTOR 10-A,
GANDHINAGAR - 382010,
(T) 079-23232152

By R.P.A.D.

CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A)
CCA NO: AWH- 120778

NO: GPCB/ANK/CCA-138(16)/ID-15015/_____ **DT:____/09/2022**

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 **12/04/2022** and inward no. **211767** 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,
DIST-BHARUCH.

1. **Consent Order No. : AWH-120778 date of Issue 08/08/2022.**
2. The consent under Water Act –1974, Air Act – 1981 and Authorization under Environment (Protection) Act, 1986 **shall be valid up to 16/04/2027** to operate industrial plant to manufacture following products:

Sr. No.	Products	Quantity (MT/Month)		
		Existing	Proposed	Total
1	NEONICOTINOID/AMIDE: - IMI DACLOPRID TECH **(I)**, THIACLOPRID **(I)**, ACETAMIPRID **(I)**, BEFLUBUTAMIDE TECH **(H)**, FLUBENDAMIDE **(I)**, CHLORANTRANILIPROLE **(I)**, RYNEXAPYR **(I)**, CYMOXANIL **(F)**, THIFLUZAMIDE **(F)**, CARBOXIN **(F)**, CAPTAN **(F)**, PRETILACHLOR **(H)**, PROPYZAMIDE **(H)**, PETHOXAMIDE **(H)**, SNA**(INT.)**-(2-AMINOSULFONYL-N,N-DIMETHYLNICOTINAMIDE), MST**(INT.)**-(2-METHOXYCARBONYL)THIOPHENE-3-SULFONAMIDE), FLUFENACET **(H)**, BOSCALID **(F)** etc.	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

Clean Gujarat Green Gujarat
Website : https://gpcb.gujarat.gov.in

2	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
3	ETHER: - PROPARGITE TECH. **(I)**, OXYFLUORFEN **(H)**, ETOXAZOLE **(I)**, EE **(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
4	ESTER/PYRETHROID: - FENOXAPROP-P-ETHYL TECH. (H), BIFENAZATE (I), QUIZALOFOP-P-ET (H), CLODINAFOP-PPG (H), ACRINATHRIN (I), BIFENTHRIN (I), CYHALOTHRIN (I), GAMMA-CYHALOTHRIN (I), LAMDA-CYHALOTHRIN (I), CYPERMETHRIN (I), AND ITS ANALOGS, DELTA-METHRIN (I), ---CYFLUTHRIN (I) AND ITS ANALOGS, PERMETHRIN (I), BIOALLETHRIN (I), FENVALERATE (I), IMIPROTHRIN (I) etc.	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
5	CARBAMATE & THIO BASED PRODUCTS CARTAP.HCL TECH. (I), THIODICARB (I), THIOPHANATE-ME (F), PROPINEB (F), METIRAM (F), THIRAM (F), ISOPROTHIOLANE TECH (I), THIOCYCLAM (I), PROTHIOCARB (F), FLUTIANIL (F) etc.	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
6	QUATERNARY SALT AND OTHER SALTS, ACID BASED PRODUCTS: - MEPIQUAT CHLORIDE TECH. (I), CHLORMEQUAT CHLORIDE (I), OTHER SALTS: COPPER HYDROXIDE (BACTERICIDE,F), COPPER SULPHATE (ALGICIDE,F), etc., FLUPROPANATE-NA TECH (H) + HPAA (INT.)-(2-HYDROXYPHENYLACETIC ACID), BBA (INT.)-(BROMOBUTYRICACID), HPPA-INT.(2-(4-HYDROXYPHENOXY)PROPANATE), PICLORAM (H), DICAMBA (H), 2-CYANOPHENOL (INT.) etc	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
7	TRIAZOLS: - 2,6 DICHLOROBENZOXAZOLE (INT.),	Either individual or total	--	Either individual or total

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	ISOXAFLUTOLE (H), FLURASULAM (H), TDA (INT.) (TRIFLUOROMETHYLTHIADIAZOLE), FLUTRIAFOL TECH (F), PROTHICONAZOLE (F), SULFENTRAZONE (H), CARFENTRAZONE-ET (H) etc.	production of this group Sr. No. 7 & 8 shall not exceed 400 MT/Annum		production of this group shall not exceed 400 MT/Annum
8	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)			
9	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. 9 &10 shall not exceed 185 MT/Annum	--	Either individual or total production of this group shall not exceed 185 MT/Annum
10	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.			
11	Ryanxypyr	935	--	935
12	Isoxazolidinone sodium solution/ Isoxazolidinone/ FMC – 57091 (100%)	650	2600	3250
13	4S Zeta cypermethrin	150	--	150
14	F-2700 Zeta cypermethrin			
15	Natural gas based captive power plant	2.04 MW/Hr	--	2.04 MW/Hr

Specific conditions:

a) Unit shall comply with all the conditions stipulated by MoEF in the order of Environment Clearance issued vide letter no. IA-J-11011/85/2018-IA-II(I), dated: 25/11/2019.
b) Unit shall maintain ZLD.
c) Unit shall not manufacture any banned pesticides as notified by Government time by time.
d) Unit shall use fresh raw material only.
e) Unit shall sell out their hazardous waste to authorized endusers who is having authorization with valid CCA and rule 9 permission to receive this waste. Unit shall make MoU with such authorized endusers and submit MoU.
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.
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.
h) Unit shall strictly follow the Solid Fuel guideline framed by Board and shall install APCM as per guideline.
i) Unit shall strictly follow the Fly Ash Notification for disposal of generated ash.
j) Unit shall install online Continuous Emission Monitoring Systems (CEMS) and link it with the server of GPCB for real time data transfer for boiler more than 8 TPH capacity or equivalent capacity of TFH.
k) Unit shall comply with additional condition for CPA/SPA areas as per GPCB office order dated: 11/11/2019.

[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/Nm3	120 mg/Nm3
SO2	100 PPM	80 PPM
NOx	50 PPM	40 PPM

Process gas Emission Standards		
Parameters	**Existing**	**Revised norms (80% of Existing)**
HCL	20 mg/Nm3	16 mg/Nm3
SO2	40 mg/Nm3	32 mg/Nm3

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

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

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GANDHINAGAR - 382010,
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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.
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, 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.
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 quantity of total water consumption shall not exceed **462 KL/Day** as per below break up as mentioned in form D submitted for consent application under Water Act- 1974.

Water (Qty: KL/day)	Water consumption		
	Existing	Proposed	Total
Domestic	50	10	60
Industrial	260.2	106.8	367
Gardening	--	35	35
Total	**310.2**	**151.8**	**462**

3.2 The quantity of total waste water generation shall not exceed **294.5 KL/Day** as per below break up as mentioned in form D submitted for consent application under Water Act- 1974.

Water (Qty: KL/day)	Wastewater Generation		
	Existing	Proposed	Total
Domestic	33.2	6.3	39.5
Industrial	71.2	183.8	255
Total	**104.4**	**190.1**	**294.5**

3.3 Mode of disposal of wastewater:

a) Out of total 255 KLD industrial effluent, 35 KLD wastewater generated from Boiler blow down and cooling blow down shall be directly reused for washing activity.
b) Remaining 220 KLD effluent shall be treated into ETP (P+S+T) followed by MEE and RO and treated effluent shall be reused for process and cooling tower. Hence, unit shall maintain ZLD. **OR**
In case of in house MEE is in maintenance unit shall send effluent to ACPTCL, Ankleshwar.
c) Sewage 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_3, 27^0 C	20 mg/L
2	Total Suspended Solids (TSS)	30 mg/L
3	Total Residual Chlorine	Minimum 0.5 ppm

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3.4 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.

3.5 The GIDC drainage connection given by the GIDC for discharge of industrial effluent shall be disconnected & the outlet shall be sealed.

3.6 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.

3.9 In case of incinerators, 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.

3.8 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.

3.9 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 June every year.

3.10 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 The following shall be used as fuel:

Sr. No.	Name of fuel	Quantity		
		Existing	Proposed	Total
1	Natural Gas	15500 Sm^3/day	--	15500 Sm^3/day
2	H.S.D	2160 lit/day	2160 lit/day	4320 lit/day

4.1.1 The flue gas emission through stack shall conform to the following standards:

Stack No.	Stack attached to	Capacity/ Remarks	Stack Height in Meter	Air Pollution Control Measure (APCM)	Parameter	Permissible limit
	Existing					
1	Boiler	WHRB-Captive Power Plant	30	--	PM SO_2 NO_x	150 mg/Nm^3 100 ppm 50 ppm

2	Boiler	10 TPH 5 TPH	30		PM SO_2 NO_X	150 mg/Nm³ 100 ppm 50 ppm
3	D.G. Set	1250 KVA	11			
4	Incinerator	Common vent of New & old Incinerator with Two stage Caustic scrubber system	45	Alkali Scrubber	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:

PARAMETER	EMISSION STANDARD	SAMPLING DURATION
Particulates	50 mg/Nm3	30 Minutes OR more (for sampling of 300 liters of emission)
HCl	50 mg/Nm3	30 Minutes
SO2	200 mg/Nm3	30 Minutes
CO	100 mg/Nm3	daily average
Total Organic Carbon	20 mg/Nm3	30 Minutes
Total dioxins and furans	0.1 ng TEQ/Nm3	8 hours
Sb + As + Pb + Cr + Co + Cu + Mn + Ni + V + their compounds	1.5 mg/Nm3	2 hours

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

	Proposed					
1	D.G. Set	1500 KVA	11	--	PM SO_2 NO_X	120 mg/Nm³ 80 ppm 40 ppm

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

Stack No.	Stack attached to	Stack Height in Meter	Air Pollution Control Measure (APCM)	Parameter	Permissible limit
	Existing				
1	Reaction Vessels	25	Alkali Scrubber	HCl Chlorine	20 mg/Nm³ 5 mg/Nm³
2	Reaction Vessels	25	Scrubber	HCl Chlorine	20 mg/Nm³ 5 mg/Nm³
	Proposed				
1	R &D , Q.C. Laboratory	11	Caustic Scrubber	Acid Mist	--
2	Pilot Plant	11	Caustic Scrubber	HCl SO2	16 mg/Nm3 32 mg/Nm3

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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 (PM_{10})	60	100
2.	Particulate Matter ($PM_{2.5}$)	40	60
3.	Oxides of Sulphur (SO_x)	50	80
4.	Oxides of Nitrogen (NO_x)	40	80

- **Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.**
- **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 6a.m. and10 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 GENERAL CONDITIONS: -

5.1 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.

5.2 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.

5.3 Unit shall put up at the entrance a board displaying the name of unit, particulars of the products/ process and the name of proprietor/partners /directors of the unit and the electricity consumer number as on the record of DGVCL.

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

6.1 Number of authorization: **AWH-120778 date of Issue 08/08/2022.**

6.2 **M/s. CHEMINOVA (INDIA) LTD. (TECH.DIV.)** is hereby granted an authorization to operate facility for following hazardous wastes on the premises situated at **PLOT NO: 241, GIDC ESTATE PANOLI, DIST: BHARUCH.**

Sr. No.	Name of Haz. Waste	Cate. Num.	Quantity in MT/Year			Facility
			Exi.	Pro.	Total	
1	Spent Solvents	20.2	500	-	500	Spent Solvent (MDC, EA, Acetone etc.): Co-processing, Collection, Recycling, Incineration, Storage, Transportation, Recover & reuse within industrial unit OR incineration to CHWIF at BEIL/SEPPL OR Disposal by sell out to authorized users who is having authorization with valid CCA and rule 9 permission to receive this waste after making MoU.
			1200	-	1200	Stripped Solvent from Stripper: Co-processing, Collection, Recycling, Incineration, Storage, Transportation, Recover & reuse within industrial unit OR incineration to CHWIF at BEIL/SEPPL OR Disposal by sell out to authorized users who is having authorization with valid CCA and rule 9 permission to receive this waste after making MoU.
2	Process wastes or residues	29.1	2311	-	2311	Co-processing, Collection, Generation Incineration, Storage, Transportation, Disposal to common CHWIF facility BEIL/SEPPL/RSPL/ ECO waste/ Safe Enviro/ Co-processing in cement industries.
3	Empty barrels/ containers/ liners contaminated with hazardous chemicals / wastes	33.1	362.11	-	362.11	Collection, Storage, Decontamination, Transportation and Disposal by reuse after in-house decontamination or send it to authorized decontamination facility / recycler or send back to supplier.
4	Chemical sludge from	35.3	305	515	820	Collection, Storage, Transportation and

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GUJARAT POLLUTION CONTROL BOARD
PARYAVARAN BHAVAN, SECTOR 10-A,
GANDHINAGAR - 382010,
(T) 079-23232152

	waste water treatment					Disposal by send it to TSDF- BEIL/ SEPPL/ Safe Enviro.
			1525	3500	5025	Evaporation Salt: Collection, Storage, Transportation and Disposal by send it to TSDF- BEIL/ SEPPL/ Safe Enviro/ Eco waste.
5	Ash from incinerator and flue gas cleaning residue	37.2	720	-	720	Incinerator Ash: Collection, Storage, Transportation and Disposal by send it to TSDF- BEIL/ SEPPL/ Safe Enviro/ Eco waste.
6	Used or Spent Oil	5.1	0.36	-	0.36	Collection, Storage, Transportation and Disposal by Reuse in plant & machinery as lubricant or sell it to authorized re-refiners / recycler.
7	Salts of Per-Acids	B36	18864	-15564	3300	Sodium Sulfate: Collection, Storage, Transportation and Disposal by sell out to authorized users who is having authorization with valid CCA and rule 9 permission to receive this waste after making MoU.
8	Asbestos Waste	15.1	--	100	100	Collection, Storage, Transportation and Disposal to TSDF at BEIL/ SEPPL/ Safe Enviro/ Eco waste.
9	Insulation waste- glass wool	--	--	100	100	
10	Paint residue, spent solvent	21.1, 21.2	--	50	50	Collection, Storage, decontamination, sale to authorize traders, decontamination facility/ scrap dealers/ reuse OR disposal at TSDF/CHWIF facility at BEIL/ SEPPL/ Safe Enviro/ Eco waste.
11	Contaminated cotton rags OR other cleaning materials	33.2	--	100	100	Collection, Storage, Transportation and Disposal to TSDF/CHWIF facility at BEIL/ SEPPL/ Safe Enviro/ Eco waste.
12	Non Recyclable plastic waste	--	--	100	100	Collection, Storage, Transportation and Disposal to TSDF at BEIL/ SEPPL/ Safe Enviro/ Eco waste.

13	Date Expired/ off specification product	29.3	--	500	500	Collection, Storage, Transportation and Disposal to TSDF/CHWIF facility at BEIL/ SEPPL/ Safe Enviro/ Eco waste.
14	Electronic waste	31.1	--	100	100	Collection, Storage, Transportation and sold to actual end user is having permission.
15	Mother liquor/ wastewater	--	--	21.19 KLD	21.19 KLD	Collection, Storage, Transportation and sent for incineration in common incinerator facility at BEIL OR Detox, SEPPL OR send it for co-processing to cement industries OR send to MEE at external facility- DETOX OR sent for dryer at external facility.

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

6.4 The authorization shall be in force for a period **up to 16/04/2027**.

6.5 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.

7. **TERMS AND CONDITIONS OF AUTHORISATION:**

7.1 The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.

7.2 The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the Gujarat Pollution Control Board.

7.3 The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.

7.4 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.

7.5 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;

7.6 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"

7.7 It is the duty of the authorised person to take prior permission of the Gujarat Pollution Control Board to close down the facility.

7.8 The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.

7.9 The record of consumption and fate of the imported hazardous and other wastes shall be maintained.

GPCB

GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,
GANDHINAGAR - 382010,
(T) 079-23232152

7.10 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.

7.11 The importer or exporter shall bear the cost of import or export and mitigation of damages if, any.

7.12 An application for the renewal of an authorization shall be made as laid down under Hazardous & Other Wastes (Management and Transboundary Movement) Rules-2016.

7.13 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.

7.14 Annual return shall be filed by June 30th for the period ensuring 31st March of the year.

7.15 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.

7.16 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.

7.17 Unit shall have to manage used or spent oil; empty or discarded barrels / containers / liners contaminated with hazardous chemicals / wastes, process waste as per Hazardous & Other Wastes (Management and Transboundary Movement) Rules-2016, framed under the E(P)Act-1986 and shall apply Authorization for all applicable waste.

For and on behalf of
GUJARAT POLLUTION CONTROL BOARD

(Arun G. Patel)
ENVIRONMENT ENGINEER

Annexure 4 -Annual return- Form- 4 (2021-2022)

FMC | An Agricultural Sciences Company

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

PCB ID -15015

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

Date –6Th June 2022

To
Member Secretory
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 derails 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

RECEIVED
Gujarat Pollution Control Board,
R.O. Ankleshwar
Date : 7.6.22

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 30th 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 –** Anilkumar.Trivedi@fmc.com	
4.	Production (Product wise) during year April 2021 to March 2022		**Product**	**Quantity in (MT)**
			TRIAZOLS: Paclobutrazol Technical	82.098
			NEONICOTINOID / AMIDE Thicloprid Technical	7.174
			ISOXAZOLIDINONE (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 a. Non-Recyclable Plastic / Contaminated liners, bags b. Insulation waste c. Asbestos sheet d. Discarded containers	33.1	1.825 11.140 Nil 73.641 Total Qty.= 86.606
		5. Process waste or Residue a. For Incineration b. For Co-process	29.1	655.743
		6. Incineration Ash / Flue gas cleaning Residue	37.2	Nil
		7. (a) Spent Solvents c. Stripped solvent from stripper	20.2 20.2	Nil
		8. E- waste		Nil
		9. Battery		47 Nos. / 1.020 MT

YEAR – 2021-22

PCB ID- 15015

PART-A

		Hazardous waste	Category	To Disposal Facility Quantity (in MT)	To Recycler Quantity (in MT)	Others Quantity (in MT)	Remarks (Details enclose as)
2	Total Quantity of Category wise waste Disposed	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

		Hazardous waste	Category	Quantity (in MT)
4	Total Quantity of Category wise waste storage at the end of the year	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

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
Nov-21	1-Nov-21	1442414	15.425	BEIL
	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	16.200	BEIL
	26-Nov-21	1464422	17.430	BEIL
	29-Nov-21	1467721	17.915	BEIL
Dec-21	3-Dec-21	1471151	14.925	BEIL
	11-Dec-21	1479112	14.695	BEIL
	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

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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	1562992	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				

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				

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.
	22-Dec-21	1490770	0.990	Anas Green Environment Pvt. Ltd.
Jan-22	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.
	25-Jan-22	1527865	1.57	Anas Green Environment Pvt. Ltd.
Feb-22	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.
	17-Feb-22	1552523	1.795	Anas Green Environment Pvt. Ltd.
Mar-22	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	

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	Nuvoco
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

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	7.620	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: 6th June 2022

PLACE: Panoli

Signature of Factory manager /Occupier

Annexure 5 -Environment Statement- Form- 5 (2021-2022)

FMC | An Agricultural Sciences Company

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/2021-22/09/05/22 **ID: 15015**

Date: 5Th September 2022

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 2021-22

Respected Sir,

Please find enclosed the duly filled Environment Statement in Form-V for the financial year 2021-22

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.

RECEIVED
G. P. C. Board
R. O. Ankleshwar
Date 5/9/22

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

FORM - V

(See Rule 14)

From :

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

To:

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

Environmental Statement for the financial year ending the 31st March, 2022

PART -A

i) Name & address of the Owner/Occupier of the industry, operation or process	- **Mr.Manoj Khanna** CHEMINOVA INDIA LTD. Technical Division Plot no 241 , 242/2 & 241/P, GIDC Panoli,Tal Ankleshwar Dist Bharuch
ii) Industry category Primary :- (STC Code) Secondary:- (SIC Code)	- LSI Not Applicable Not Applicable
iii) Production capacity:- Units	- ANNEXURE-1
iv) Year of establishment	- 1990
v) Date of the last environmental statement submitted	- 6Th September 2021

PART -B

Water & Raw Material Consumption

i) Water consumption - M^3/day	-	90	m3/day
Process	-	23	m3/day
Cooling	-	38	m3/day
Domestic	-	29	m3/day

Process water consumption per product output (Lit./ Kg)		
Name of products	During the previous financial year 2020-2021 (1)	During the current financial year 2021-2022 (2)
(1) Technical, Paclo, TCP, ISOXAZOLIDINONE (F-57091 Na)	31.17	19.97

ii) Raw Material consumption

* Name of raw materials		Name of Products	Consumption of raw material per unit of output	
			During the previous financial year 2020-2021	During the Current financial year 2021-2022
1	2-CIT	TCP	0.6472 Kg/ Kg	0.615 Kg/ Kg
2	NaOH FLAKES		0.2055 Kg/ Kg	0.198 Kg/ Kg
3	CCMP		1.263 Kg/ Kg	1.176 Kg/ Kg
4	MeOH		0.3243 Kg/ Kg	0.587 Kg/ Kg
1	Pacloketone	Paclobutazole	1.0618 Kg/ Kg	1.065 Kg/ Kg
2	NaBH4		0.0403 Kg/ Kg	0.040 Kg/ Kg
3	30% HCl		0.1330 Kg/ Kg	0.126 Kg/ Kg
4	Methanol		0.8247 Kg/ Kg	0.469 Kg/ Kg
5	NaHCO3		0.0447 Kg/ Kg	0.051 Kg/ Kg
1	Sodium Isopropyl Xanthate	ISOXAZOLIDINONE (F-57091 Na)	0.0026 Kg/ Kg	0.003 Kg/ Kg
2	Hydroxylamine Sulfate		0.8105 Kg/ Kg	0.777 Kg/ Kg
3	CPC		1.2873 Kg/ Kg	1.275 Kg/ Kg
4	H2SO4		0.0380 Kg/ Kg	0.034 Kg/ Kg
5	Toluene Ltr.		0.0499 Kg/ Kg	0.040 Kg/ Kg
6	Sodium Hypochlorite, Sol.		0.8965 Kg/ Kg	1.032 Kg/ Kg
7	Sodium Hydroxide		1.3931 Kg/ Kg	1.226 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.

CHEMINOVA INDIA LIMITED PANOLI

PART-C

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

i) Pollutants		Quantity of pollutants discharged (mass/day) TPD	Concentrations of pollutants in discharges (mass/volume) mg/l except pH & Temp.	Percentage of variation from prescribed standard with reasons
Average Flow 42.2 m3/d.				
a) **Water**		**TPD**	**mg/L**	
Total Dissolved Solid		0.2219	5258	.--
Total Suspended Solid		0.0014	34	.--
Chemical Oxygen Demand		0.0079	187	.--
Biological Oxygen Demand		0.0016	38	.--
Ammonical Nitrogen		Nil	Nil	.--
b) **Air**		**TPD**	**mg/Nm^3**	
Azoxy Plant				
	Chlorine	0.0000	0.98	.--
	Hydrogen Chloride	0.0000	5.54	.--
Boiler				
	SPM	0.0035	17.92 mg/nm3	.--
	SOx	0.0038	6.67 ppm	.--
	NOx	0.0049	12.17 ppm	.--

PART-D

Hazardous Wastes

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

Hazardous wastes		**Total Quantity (kg)** During the previous financial year 2020-2021	**Total Quantity (kg)** During the current financial year 2021-2022
a) **From Process**			
Category	**Type of Waste**		
	(1)Evaporation Salt	637,130	**777090**
	(2) Waste Used Oil	135	**0**
	(3) Discarded Container Bag Liner(Cat 33.1)	8,995	**12965**
	(4) Process waste (Cat-29.1)	52,450	**660375**
	(5) Spent Solvents	Nil	**Nil**
	(6) Stripped Solvent	Nil	**Nil**
b) **From Pollution Control facilities**			
	ETP Sludge	35,780	**30865**

PART -E

Solid Wastes

	Total Quantity in Kgs During the previous financial year 2020-2021	**Total Quantity in Kgs** During the current financial year 2021-2022
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	41825	**75675**
3)Disposed	Nil	Nil

CHEMINOVA INDIA LIMITED PANOLI

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) Use of Non- Conventional Energy - Solar Power from supplier is continued and agreement is made to have Sustainable production

(2) 4Rthon project has been implemented to conserve natural resources and reduce cost of production

PART -H

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

1. Reverse Osmosis (R.O.) Plant is installed and the treated water is recycled back in cooling - boiler and process
2. To Monitor the process emission from Process, On line analyser / sensor is provided to scrubber and the monitored paramreters directly display in DCS system

PART - I

Any other particulars for improving the quality of the environment.

(1) Zero liquid discharge (ZLD) have been implemented by installing R.O.Plant,
(2) Sewage Treatment plant is installed to treat the domestic water separately

Date: 5-Sep-22

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

Name: Anilkumar Trivedi

Designation: Factory Manager

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

ANNEXURE -1

Sr No	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) + HPAA (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	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) HETROCYCLIC (PYRIMIDINE/PYRIDINE/TRIAZINE): - FLUAZINAM (F), FENPYROXIMATE TECH. (I), METRIBUZIN (H), AMITRAZ (I), CLOFENTEZINE (I), MMMT (INT.)-(2-METHOXY-4-METHYL-6-METHYLAMINO-1,3,5-TRIAZINE, METOXYFENOZIDE (I), FENCHLORIM (SF), 2-HYDROXY-3,5,6-TRYCHLOROPYRIDINE & ITS SODIUM SALT (INT. OF CHLORPYRIPHOS) etc.	185
10	Ryanxypyr	935
11	Isoxazolidinone sodium solution	650
12	4S Zeta Cypermethrin F-2700 Zeta Cypermethrin	150

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Hazardous waste **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/SEPPL)
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/SEPPL)
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 Deceontaimatiion facility
5	Discarded Bags , Liners	Solid	33.1	x	N.A.	Plastic, Liner	Collection,Disposal,Storage, Transportation, Disposal to TSDF / CHWIF of (BEIL/SEPPL)
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/SEPPL/ 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/SEPPL)
8	Spent Solvent	Liquid	20.2	0.98	N.A.	MDC, Acetone, Toluene, Methanoletc	Collection,Disposal,Storage, Transportation, Disposal to CHWIF of (BEIL/SEPPL/ RSPL) Sale out to authorized user having Rule-9