FMC | An Agricultural Sciences Company

Cheminova India Limited
Technical Division
241,242/2 & 241/P,
GIDC Estate, Panoli - 394 116
Dist. Bharuch (Gujarat)
India.
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CIN NO. U24100MH1986PLC038627

Date: 22-06-2023

Ref.: CIL-TECH /EC-Comp/01/2023

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 December 2022 to May 2023.

Respected Sir,

In accordance to the condition specified in our EC, we hereby submit duly filled datasheet for monthly Monitoring report (December 2022 to May 2023) for implementation of stipulated conditions of our EC together with point wise compliance status of various stipulations.

We hereby submit the duly filled datasheet as per data for the period of December 2022 to May 2023.

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 (2022-2023)
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

(December 2022 to May 2023)

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), Gandhinagar
Six Monthly Monitoring Reports
PART - 1
From: 01.12.2022 to 31.05.2023

No. CIL-Tech/ EC-Datasheet/01/2023			
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	• Unit has a separate ware house for

	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.	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)** December 2022 / 24.625 January 2023 / 133.955 February 2023 / 8.770 March 2023 / 29.195 April 2023 / 0.000 May 2023 / 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 price reference	:	Rs. 365.92 crore (For Proposed Expansion only)
	b]. Allocation made for environmental management plans with item wise and year wise	:	As follows

	break-up.		

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 Previous occasions, (if applicable)	:	08/02/2023
	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

Sr. No.	Conditions	Compliance Status
2.	The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for expansion of agrochemicals and their intermediates from 3533 TPA to 15583 TPA by M/s. Cheminova India Limited (Technical Division) in an area of 40476.94 sqm located at Plot Nos. 241, 242/2,241/P, GIDC Industrial Estate, Panoli, Ankleshwar, District Bharuch (Gujarat).	Details attached as below:
3.	The details of products are as under:-	Complied. Production data as per existing CTO is as below:

S. N0	Name of Product*	Existing (TPA)	Proposed (TPA)	Total (TPA)
1.	ORGANO PHOSPHATE: - ACEPHATE TECH. **(I),** DICHLORVOS **(I)**, CHLORPYRIFOS **(I)**, QUINALPHOS **(I)**, TRIAZOPHOS **(I)**, PHOSALONE **(I)**, OMETHOATE **(I)**, PROTHIOFOS **(I)**, TEMEFOS **(I)**, PROFENOFOS **(I)**, ETHION **(I)**, ETHWEPHON (PGR), GLYPHOSATE **(H)**, etc.	800 TPA	---	800TPA
2.	STROBILURIN: - AZOXYSTROBIN TECH. **(F)**, DES-METHOXYAZOXY (DMA) **(INT.)** KRESOXIM METHYL **(F)**, FLOUXASTROBIN **(F)**, PYRACLOSTROBIN **(F)**.	1200 TPA	---	1200 TPA
3.	NEONICOTINOID/AMIDE: - IMI DACLOPRID TECH **(I)**, 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 TPA	---	225 TPA
4.	KETONE: - DIMETHOMORPH TECH. (F), CLETHODIM (H), BUTROXYDIM (H), SPIROMESIFEN (I), MESOTRIONE (H), SULCOTRIONE (H), IBP (INT.), (ISOBUTYROPHENONE), PYMETROZINE (I) etc.	60 TPA	---	60 TPA
5.	ETHER: - PROPARGITE TECH. (I), OXYFLUORFEN (H), ETOXAZOLE (I), EEA (INT.), (2-ETHOXY ETHYL AMINE), S-CYNO-MPB (INT.) etc.	60 TPA	---	60 TPA
6.	ANILINE: - PENDIMETHALIN TECH. (H), METALAXYL (F), FAMOXADONE (F), TRIFLURALIN (H), FIPA-OH (INT.) etc.	60 TPA	---	60 TPA

Production Details of Compliance period: December 2022 to May 2023.

Month	Quantity (MT/Month)
December 2022	24.625
January 2023	133.955
February 2023	8.770
March 2023	29.195
April 2023	0.000
May 2023	0.000

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
	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 **(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	185 TPA	---	185 TPA	

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
		(INT.)-(2-AMINO-4-CHLORO-6-METHOXYPYRIMIDINE), IMAZETHAPYR TECH. **(H)**, PYRIDALYL TECH **(I)**, DIFLUFENICAN **(H)**, CLOQUINTOCET-MEXYL(SF)				
	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	
	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					

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**
	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 Corridors etc. within 10 km from the project site. Ukai canal is flowing at a distance of 0.28 km in west direction.	Unit is located in Panoli Notified GIDC Industrial Estate.
6.	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 GIDC water consumption data as per existing CTO is as below: **Month** / **Quantity KL/Month** / **Limit as per CC&A** December 2022: 2044 January 2023: 3527 February 2023: 2511 March 2023: 2810 April 2023: 2667 May 2023: 2429 **462 KL/ Day** Total wastewater generation which is treated in RO & MEE Plant and maintain ZLD is as below: **Month** / **Quantity** / **Quantity** / **Limit as**

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

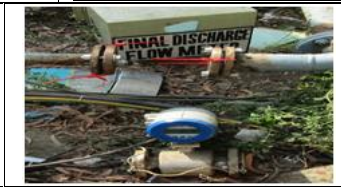
	KL/Month in RO	KL/Month in STP	per CC&A
December 2022	190	**589**	**255 KL/Day& 39.5 KL/ Day**
January 2023	294	667	
February 2023	352	498	
March 2023	237	555	
April 2023	0	559	
May 2023	0	516	

Fuel Consumption of existing utilities as per CC&A is given as below:

Month	Quantity NM3
December 2022	26023
January 2023	48945
February 2023	11686
March 2023	23536
April 2023	4376
May 2023	1757

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

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**
		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, subject to compliance of the terms and conditions as environmental safeguards, as under:-	Noted.
	(i) Consent to Establish/Operate (CTE/CTO) for the project shall be obtained from the State Pollution Control Board (SPCB) as required under the Air (Prevention and Control of Pollution)Act, 1981 and the water (Prevention and Control of Pollution) Act, 1974, and the SPCB shall follow the mechanism/protocol issued by the Ministry vide letter no. Q-16017/38/2018-CPA dated 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	Unit has obtained CC&A AmendmentNo. AWH-120778 on

Compliance Report For Stipulated Conditions Of Environmental Clearance
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Sr. No.		Conditions	Compliance Status
		shall be discharged to any surface water body, sea and/or on land.	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. d. Solvents shall be stored in a separate space specified with all safety measures. e. Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. f. Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. g. All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.	All requirements of effective Solvent management Plan shall be implemented.
	(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** December 2022 / 2044 January 2023 / 3527 February 2023 / 2511 March 2023 / 2810 April 2023 / 2667 May 2023 / 2429
	(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:

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Sr. No.	Conditions	Compliance Status
	(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 / 12.605 / Co-Processing Process inorganic & evaporation salt / 148.260 / TSDF site
	(xiii) The company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act, 1989.	Unit shall store all the hazardous chemicals based on the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. Also maximum safety measures to be taken for transportation of Hazardous chemicals and guidelines of the Motor Vehicle Act, 1989 shall be followed.
	(xiv) The company shall undertake waste minimization measures as below:- 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

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Sr. No.	Conditions	Compliance Status
		• 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.

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)

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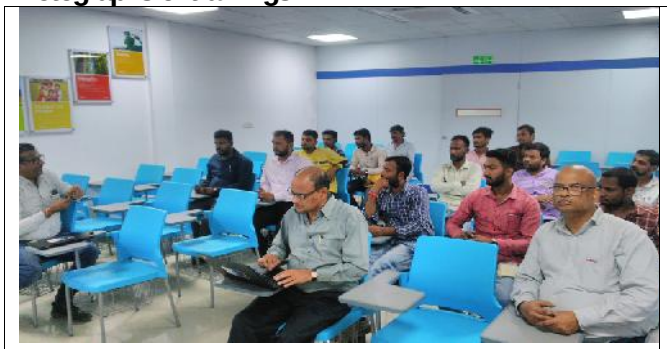
Sr. No.	Conditions			Compliance Status
				Formulation -R&D
				Boiler
4.	Elevated Work	Detailed Training		
		(1) Competent Person		
5.	Line Breaking and Equipment Opening	Detailed Training		
		(1) Equipment Owner		Production Department
		(2) Work Performing Group		Engineering Department
6.	HAM	Detailed		All Department and Contractor
7.	Security Standard	Detailed		All Department
8.	Hose Management Standard	Detailed Training		Production / Engineering
				Contractor
9.	Decommissioning	Detailed Training		Production, Engineering, Material, EHS, QC, HR Staff
10.	Lab Standard			
	FMC Laboratory Minimum Safety Standards: MSDS	Detailed Training		QC and R&D Department
	Laboratory Minimum Safety Standards: Glassware Handling	Detailed Training		QC and R&D Department
	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

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**
	Photographs of trainings: 	
	(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/APR/2023/01 Date of Issue :19-04-2023 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 Stack No.1 Particulars of Sample — 8820 1 PCB ID of Stack — 27192-FS-01 2 Sample ID — BOILER 3 Name of Stack — BOILER (10 TPH) 4 Source — 14-04-2023 & 11:20 h 5 Date & Time of sampling — 14-04-2023 6 Date of Receipt — 15-04-2023 7 Date of Analysis start — 17-04-2023 8 Date of Completion Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01 Details of Stack 1 Stack Height — 30 m 2 Stack Diameter — 600 mm 3 Temperature of Flue gas — 133°C 4 Velocity of Flue gas — 7.7 m/s Details of Flue Gas 1 Type of Fuel — Natural Gas 2 Rate of Consumption — 7000 Sm³/d PARAMETERS ANALYSED / UNIT / TEST METHOD / PERMISSIBLE LIMIT (NOTE 2) / RESULTS 1 PM @ 12% CO2 / mg/Nm3 / IS 11255 (Part 1):1985 / 120 / BDL(DL=5) 2 SO2 / ppm / IS 11255 (Part 2):1985 / 80 / BDL(DL=3) 3 NOx / ppm / IS 11255 (Part 7):2005 / 40 / 11 Additions to, deviations, or exclusions from the method :-None Results from external providers, if any :- None Any other remarks :-None Abbreviations used :- None Verified by — Authorized Signatory Mrs. K. P. Shah / Mr. P. M. Shah COPY 1 OF 2 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-03/ Issue No. : C2 Issue Date : 31-01-2019 Revision No : C3 Revision Date : 09-04-2022 www.siddhigreen.com GUJARAT'S 1ST PLATINUM CERTIFIED NEW GREEN INTERIORS BY IGBC Regd. Office : "Kamal Arcade - The Vertical Sunstock" 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 REPORT NO. : SC/CILTD/ST/APR/2023/02 Date of Issue : 19-04-2023 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 Stack No.2 Particulars of Sample — 8822 1 PCB ID of Stack — 27192-FS-02 2 Sample ID — D.G.SET (1250 KVA) 3 Name of Stack — D.G.SET (1250 KVA) 4 Source — 14-04-2023 & 11:45 h 5 Date & Time of sampling — 14-04-2023 6 Date of Receipt — 15-04-2023 7 Date of Analysis start — 17-04-2023 8 Date of Completion 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 — 112°C 4 Velocity of Flue gas — 8.1 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 / 17 3 NOx / ppm / IS:11255 (Part 7)-2005 / 40 / 23 4 CO / mg/Nm3 / SC/LAB/STP/STK-05 / - / 14 Additions to, deviations, or exclusions from the method :-None Results from external providers, if any :- None Any other remarks :-None Abbreviations used :- None Verified by — Authorized Signatory Mrs. K. P. Shah / Mr. P. M. Shah Copy 1 of 2 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: 31-01-2019 Revision No : 03 Revision Date : 09-04-2022 page 1 of 2 www.siddhigreen.com GUJARAT'S 1ST PLATINUM CERTIFIED NEW GREEN INTERIORS BY IGBC Regd. Office : "Kamal Arcade - The Vertical Sunstock" 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

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

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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 LOMBOND 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

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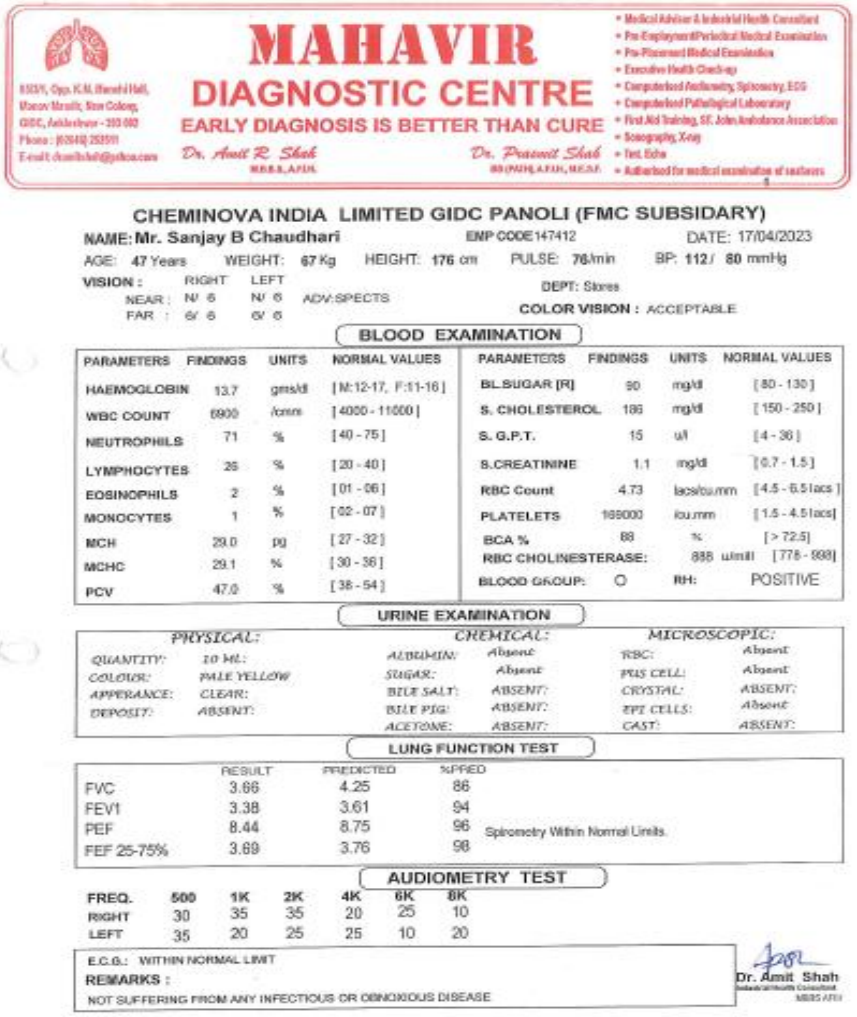
Sr. No.	Conditions	Compliance Status



MAHAVIR DIAGNOSTIC CENTRE
EARLY DIAGNOSIS IS BETTER THAN CURE
Dr. Amit R. Shah — Dr. Prasant Shah

CHEMINOVA INDIA LIMITED GIDC PANOLI (FMC SUBSIDARY)

NAME: Mr. Sanjay B Chaudhari — EMP CODE 147412 — DATE: 17/04/2023
AGE: 47 Years — WEIGHT: 67 Kg — HEIGHT: 176 cm — PULSE: 76/min — BP: 112/ 80 mmHg
VISION: RIGHT LEFT — NEAR: N/ 6 N/ 6 — FAR: 6/ 6 6/ 6 — ADV:SPECTS
DEPT: Stores
COLOR VISION: ACCEPTABLE

BLOOD EXAMINATION

PARAMETERS	FINDINGS	UNITS	NORMAL VALUES	PARAMETERS	FINDINGS	UNITS	NORMAL VALUES
HAEMOGLOBIN	13.7	gms/dl	[M:12-17, F:11-16]	BL.SUGAR [R]	90	mg/dl	[80 - 130]
WBC COUNT	6900	/cmm	[4000 - 11000]	S. CHOLESTEROL	186	mg/dl	[150 - 250]
NEUTROPHILS	71	%	[40 - 75]	S. G.P.T.	15	u/l	[4 - 36]
LYMPHOCYTES	26	%	[20 - 40]	S.CREATININE	1.1	mg/dl	[0.7 - 1.5]
EOSINOPHILS	2	%	[01 - 06]	RBC Count	4.73	lacs/cu.mm	[4.5 - 6.5 lacs]
MONOCYTES	1	%	[02 - 07]	PLATELETS	169000	/cu.mm	[1.5 - 4.5 lacs]
MCH	29.0	pg	[27 - 32]	BCA %	88	%	[> 72.5]
MCHC	29.1	%	[30 - 36]	RBC CHOLINESTERASE:	888	u/ml	[778 - 998]
PCV	47.0	%	[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	4.25	86
FEV1	3.38	3.61	94
PEF	8.44	8.75	96
FEF 25-75%	3.69	3.76	98

Spirometry Within Normal Limits.

AUDIOMETRY TEST

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

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

MAHAVIR DIAGNOSTIC CENTRE
EARLY DIAGNOSIS IS BETTER THAN CURE
Dr. Amit R. Shah — Dr. Prasant Shah

CHEMINOVA INDIA LIMITED GIDC PANOLI (FMC SUBSIDARY)

NAME: Ms. Rashmi Parihar — EMP CODE 222067 — DATE: 18/04/2023
AGE: 29 Years — WEIGHT: 55 Kg — HEIGHT: 150 cm — PULSE: 76/min — BP: 112/ 70 mmHg
VISION: RIGHT LEFT — NEAR: N/ 6 N/ 6 — FAR: 6/ 6 6/ 6
DEPT: Process Engineering
COLOR VISION: ACCEPTABLE

BLOOD EXAMINATION

PARAMETERS	FINDINGS	UNITS	NORMAL VALUES	PARAMETERS	FINDINGS	UNITS	NORMAL VALUES
HAEMOGLOBIN	11.9	gms/dl	[M:12-17, F:11-16]	BL.SUGAR [R]	94	mg/dl	[80 - 130]
WBC COUNT	6500	/cmm	[4000 - 11000]	S. CHOLESTEROL	188	mg/dl	[150 - 250]
NEUTROPHILS	65	%	[40 - 75]	S. G.P.T.	18	u/l	[4 - 36]
LYMPHOCYTES	32	%	[20 - 40]	S.CREATININE	0.8	mg/dl	[0.7 - 1.5]
EOSINOPHILS	2	%	[01 - 06]	RBC Count	4.66	lacs/cu.mm	[4.5 - 6.5 lacs]
MONOCYTES	1	%	[02 - 07]	PLATELETS	190000	/cu.mm	[1.5 - 4.5 lacs]
MCH	25.5	pg	[27 - 32]	BCA %	88	%	[> 72.5]
MCHC	25.2	%	[30 - 36]	RBC CHOLINESTERASE:	856	u/ml	[778 - 998]
PCV	47.3	%	[38 - 54]	BLOOD GROUP: A	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	2.71	3.16	86
FEV1	2.63	2.66	99
PEF	7.48	8.15	92
FEF 25-75%	3.28	3.85	85

Spirometry Within Normal Limits.

AUDIOMETRY TEST

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

E.C.G.: WITHIN NORMAL LIMIT
REMARKS:
Dr. Amit Shah

	(xxi) Continuous online (24×7) monitoring system for stack emissions shall be installed for	Regular Monitoring of flue gas analysis is done by Siddhi Green

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Sr. No.		**Conditions**	**Compliance Status**
		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.	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.
1	The grant of environmental clearance is subject to compliance of other general conditions, as under:-		
1.1.	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 monitoringby Third party recognized laboratory.
	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

SIDDHI

IC-5007

TEST REPORT OF AMBIENT NOISE MEASUREMENT

REPORT NO : SC/CILTD/NL/APR/2023/09 Date of Issue :19-04-2023

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	27192
Date of Monitoring	14-04-2023	Measured By	Mr.Sunil
Instrument used	LUTRON make Noise Level Meter (Model No. SL-4001)	Instrument ID	SC-NM-02
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	Summer

DAYTIME READINGS (6 AM TO 10 PM)			NIGHT TIME READINGS (10 PM TO 6 AM)		
Time and Duration of Monitoring	12:00 to 14:00 h		Time and Duration of Monitoring	22:30 to 00:30 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	25	2.8	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	59	NL-11	54
2	Near ETP Area	NL-02	60	NL-12	58
3	Near CPP	NL-03	63	NL-13	61
4	Near Boiler	NL-04	74	NL-14	67
5	Near Utility	NL-05	65	NL-15	60
6	Near Azoxy Plant	NL-06	61	NL-16	59
7	Near ACP Plant	NL-07	64	NL-17	60
8	Near Fire Pump House	NL-08	67	NL-18	62
9	Near DG sets	NL-09	59	NL-19	52
10	Near Work Shop	NL-10	70	NL-20	60

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

COPY 1 OF 2

Any other remarks :- None

Abbreviations used :- None

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. 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.
6. 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-06 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 05 Revision Date : 09-04-2022

www.siddhigreen.com

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

: Regd. Office : "Kamal Arcade - The Vertical Sundeck" Comm. Plot No. C-303, 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 - 264041

VI.	The company shall harvest rainwater from the roof tops of the buildings and storm water	Photographs of Rain water harvesting arrangements are as given 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
	drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	

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.
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.

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**
	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.
		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	Unit shall comply with the additional conditions if stipulated by the ministry.

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**
	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.	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

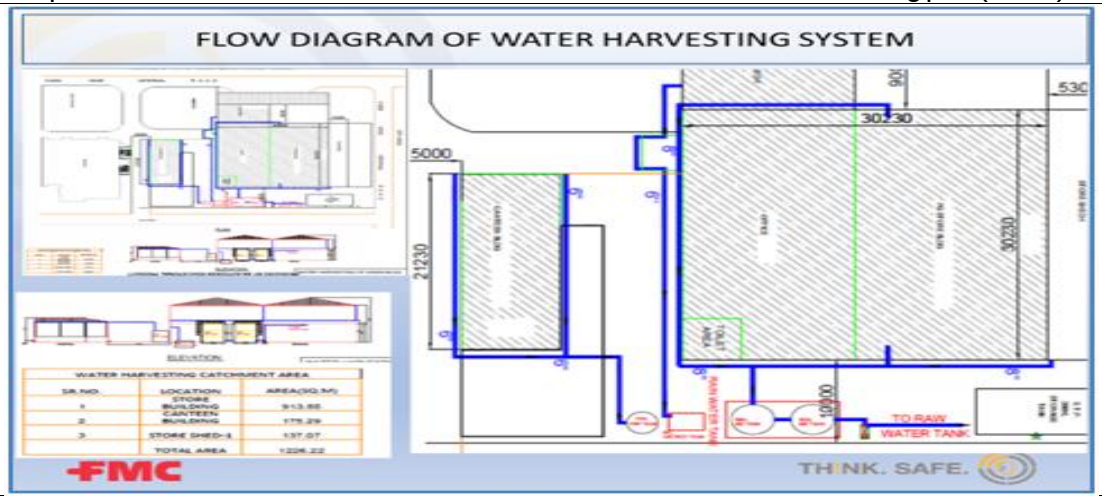
<table>
<tr><th>Sr. No.</th><th>Consent Condition Requirement</th><th>Compliance Status</th></tr>
<tr><td>1</td><td>Consent order No.: AWH-120778 Date of Issue: 08/8/2022, valid up to 16/04/2027.</td><td></td></tr>
<tr><td>2</td><td>The consent under Water Act-1974, Air Act- 1981 and Authorization under 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), CYHALOTHRIN (I),</td><td>Either individual or total production of this group shall not exceed 150</td><td>--</td><td>Either individual or total production of this group shall not</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>December 2022</td><td>24.625</td></tr>
<tr><td>January 2023</td><td>133.955</td></tr>
<tr><td>February 2023</td><td>8.770</td></tr>
<tr><td>March 2023</td><td>29.195</td></tr>
<tr><td>April 2023</td><td>0.000</td></tr>
<tr><td>May 2023</td><td>0.000</td></tr>
</table></td></tr>
</table>

Sr. No.	Consent Condition Requirement					Compliance Status
		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.	MT/Annum		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.), 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), 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-	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	

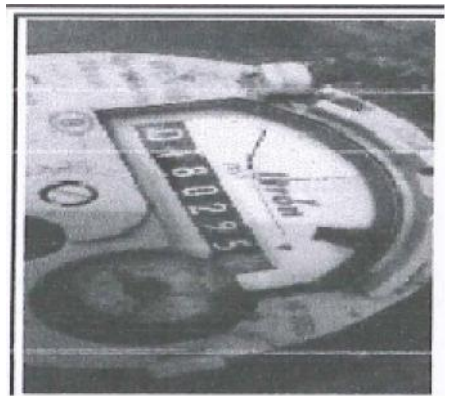
Sr. No.	Consent Condition Requirement					Compliance Status
		MEXYL(SF)				
	10.	HETROCYCLIC (PYRIMIDINE/PYRIDINE/TRIAZINE): - FLUAZINAM (F), FENPYROXIMATE TECH. (I), METRIBUZIN (H), AMITRAZ (I), CLOFENTEZINE (I), MMMT (INT.)-(2-METHOXY-4-METHYL-6-METHYLAMINO-1,3,5-TRIAZINE, METOXYFENOZIDE (I), FENCHLORIM (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.
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.					Complied. Unit is following the given condition.
	Flue gas Emission Standards					

<table>
<tr><th>Sr. No.</th><th>Consent Condition Requirement</th><th>Compliance Status</th></tr>
<tr><td></td><td>
<table>
<tr><th>Parameters</th><th>Existing</th><th>Revised norms (80% of Existing)</th></tr>
<tr><td>PM</td><td>150 mg/Nm^3</td><td>120 mg/Nm^3</td></tr>
<tr><td>SO_2</td><td>100 PPM</td><td>80 PPM</td></tr>
<tr><td>NOx</td><td>50 PPM</td><td>40 PPM</td></tr>
</table>
<table>
<tr><th colspan="3">Process gas Emission Standards</th></tr>
<tr><th>Parameters</th><th>Existing</th><th>Revised norms (80% of Existing)</th></tr>
<tr><td>HCL</td><td>20 mg/Nm^3</td><td>16 mg/Nm^3</td></tr>
<tr><td>SO2</td><td>40 mg/Nm^3</td><td>32 mg/Nm^3</td></tr>
</table>
</td><td></td></tr>
<tr><td>b)</td><td>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)
<table>
<tr><th colspan="2">Stipulated APCM in Red category industrial units of CPA</th></tr>
<tr><th>Steam generation capacity (in TPH)</th><th>Type of APCM</th></tr>
<tr><td>Less than 1</td><td>Multi Cyclone</td></tr>
<tr><td>1 to <3</td><td>Multi Cyclone + Water Scrubber</td></tr>
<tr><td>3 to <6</td><td>Bag filter + Water Scrubber</td></tr>
<tr><td>≥ 6</td><td>ESP + Water Scrubber</td></tr>
</table></td><td>Noted.</td></tr>
<tr><td>c)</td><td>Unit shall provide at least two stage scrubbing system of appropriate media for the control of the process gas emission.</td><td>All the scrubbers are equipped with double stage scrubbing system with appropriate media.</td></tr>
<tr><td>d)</td><td>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)</td><td>Complied.</td></tr>
<tr><td>e)</td><td>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.</td><td>Not Applicable.</td></tr>
<tr><td>f)</td><td>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.)</td><td>Noted. All the applicable SOP's published by GPCB/CPCB for effective fugitive emissions will be followed.</td></tr>
<tr><td>g)</td><td>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.</td><td>Noted. Odor control measures are in place to control odor nuisance from specific activities.</td></tr>
<tr><td>h)</td><td>Unit shall not use Pet-coke, furnace oil, LSHS as a fuel.</td><td>Unit is using only natural gas and H.S.D.</td></tr>
</table>

Sr. No.	Consent Condition Requirement	Compliance Status
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]	**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.	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.



<table>
<tr><th>Sr. No.</th><th>Consent Condition Requirement</th><th>Compliance Status</th></tr>
<tr><td>e)</td><td>The unit shall explore Techno-Economic feasibility of Zero Liquid Discharge (ZLD) and if feasible, ZLD should be adopted.</td><td>Noted. Unit is maintain ZLD.</td></tr>
<tr><td>[C]</td><td><u>Additional Conditions Under The Hazardous Wastes Management Rules:</u></td><td></td></tr>
<tr><td>a)</td><td>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.</td><td>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.</td></tr>
<tr><td>b)</td><td>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.</td><td>Noted.</td></tr>
<tr><td>c)</td><td>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.</td><td>Complied.</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>December 2022</td><td>2044</td></tr>
<tr><td>January 2023</td><td>3527</td></tr>
<tr><td>February 2023</td><td>2511</td></tr>
<tr><td>March 2023</td><td>2810</td></tr>
<tr><td>April 2023</td><td>2667</td></tr>
</table></td></tr>
</table>

<table>
<tr><th>Sr. No.</th><th>Consent Condition Requirement</th><th>Compliance Status</th></tr>
<tr><td></td><td></td><td>May 2023 | 2429</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 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>Unit is strictly following this condition for waste water disposal.</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>
</table>

Sr. No.	Consent Condition Requirement	Compliance Status
3.5	The GIDC drainage connection given by the GIDC for discharge of industrial effluent shall be disconnected & the outlet shall be sealed.	Complied. Unit is following the given condition.
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.	Complied. Unit is following the given condition.
3.7	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.	Incinerator is not in operation since C.Y. 2014. Details of MEE are submitted 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.	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. **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	Complied. Unit is following the given condition for fuel consumption.
4.1.1	The flue gas emission through stack shall conform to the following standards: **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	Complied. Unit is following the given condition for flue gas stack emissions.

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
Proposed					

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>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 /m³)</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 trees per acre of land and a green belt of5 meters width is developed.</td><td>Unit is putting efforts to implement this condition thoroughly.</td></tr>
<tr><td>5.3</td><td>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</td><td>Unit is following this condition.</td></tr>
</table>

Sr. No.	Consent Condition Requirement	Compliance Status
	/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.**	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 / 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 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,

Sr. No.	Consent Condition Requirement							Compliance Status
							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 Specification Product	29.3	-	500	500	Collection, Storage, Transportation Disposal at TSDF / 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	

Sr. No.	Consent Condition Requirement	Compliance Status
	OR Send for dryer at external facility.	
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.
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,	Noted. It will be implemented

Sr. No.	Consent Condition Requirement	Compliance Status
	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.	

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

11.	Triazols: - Fipronil Tech (I), Propiconazole (F), Epoxyconazole (F), Tebuconazole (F), Difenoconazole (F), Hexaconazole (F), Tricyclazole (F), Myclobutanil (F), Flusilazole (F), Paclobutrazole (PGR), Thiamethoxam (I), Chlorothalonil (F), Triadimefon (F), Isoxadifen-ET (SF)		---	
12.	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
18.	Ryanxypyr	---	3000	3000
19.	Cyazypyr	---	1000	1000
20.	DBC80 / (3-Bromo-1-(3-Chloro-2-Pyridinyl)-1H-Pyrazole-5-Carboxylic Acid)	---	1950	1950
21.	Indanamine	---	800	800
22.	FMC-57091 / Isoxazolidinone	---	2600	2600

23.	Sulfentrazone 2,4-Dichloro / 2,4-Dichlorophenyl-4-(Difloromethyl)Triazolone	---	1500	1500
	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' Scientist 'E'
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

GUJARAT POLLUTION CONTROL BOARD

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

GPCB

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

Outward No. 15823 Dt. 09/09/2022

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

Outward No. 63208/ PV/60/2022

	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

outward no: 6938307/07/2024

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

Outward No-68233 07/09/2022

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.

outward no.60238 dt/06/2023

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° C	20 mg/L
2	Total Suspended Solids (TSS)	30 mg/L
3	Total Residual Chlorine	Minimum 0.5 ppm

Outward No: 68283, 01/09/2022

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

Outward No. 68233/07/09/2022

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

Outward No:682383, 07/09/2022

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.**

Outward No: 68283 / 01/09/2022

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

Outward No:682383 07/09/2022

	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.

Outward No:682383 07/09/2022

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.

Outward No 612189 / 7/9/2022

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

Outward No:682383, 07/09/2022

GUJARAT POLLUTION CONTROL BOARD
PARYAVARAN BHAVAN
Sector-10-A, **Gandhinagar** 382010
Phone : (079) 23222425
(079) 23222152
Fax : (079) 23232156
Website : www.gpcb.gov.in

GPCB

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 15867 , 04/06/2020

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

Specific Conditions along with EC to CTE order

1) You shall maintain ZLD for entire project and surrender the membership alongwith physical connection of treated wastewater discharge to NCT

2) Comply with all provisions prevailing Dual discharge policy of the Board for Ankleshwar & Panoli Regions.

3) All other conditions mentioned in the EC granted to the unit shall be complied with.

4) MoUs shall be done with the actual users to whom all the Haz. Wastes are proposed to be sent. The actual user must have valid CCA of the Board and also shall have obtained permission under rule 9 of the Hazardous waste rules-2016.

5) Since your industry is located in critically polluted area, stringent environmental norms as per the NGT orders, shall be applicable

Outward No:15867,04/06/2020

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/06/05/2023/01

Date –5Th June 2023

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 - 2022 to March 2023 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.

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

Thanking You,

For CHEMINOVA INDIA LTD.

CHEMINOVA INDIA LIMITED PANOLI

AUTHORISED SIGNATORY

Encl: As above

CC: Regional Office, Bharuch.

Enc. – Form -4

RECEIVED
G. P. C. Board
R. O. Ankleshwar
Date 6/6/23

Cheminova India Ltd. Technical Division

PCB ID- 15015
Year -2022-23

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-120778 Date of Issue: 08/08/2022 valid up to 16/04/2027**	
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 2022 to March 2023		**Product**	**Quantity in (MT)**
			TRIAZOLS: Paclobutrazol Technical	95.170
			ISOXAZOLIDINONE (F-57091 Na)	230.916

CHEMINOVA INDIA LIMITED PANOLI

YEAR – 2022-23 PCB ID- 15015

PART-A

1	Total Quantity of Category wise waste generated	Hazardous waste generation	Category	Quantity Generated (in MT)
		1. Spent Solvents & (Stripped solvent)	20.2	0.000
		2. Process wastes or Residues	29.1	97.177
		3. Empty barrels/containers/ liners contaminated with hazardous chemicals/wastes	33.1	25.549
		4. Chemical sludge from wastewater treatment (ETP Sludge)	35.3	14.925
		Chemical sludge from waste water treatment (Eva salt)	35.3	297.325
		5. Ash from incinerator and flue gas cleaning residue	37.2	0.000
		6. Used or spent oil	5.1	0.200
		7. Salts of per-Acids	B-36	0.000
		8. Asbestos Waste	15.1	0.000
		9. Insulation waste- glass wool	33.1	18.700
		10. Paint residue/ spent solvent	21.1 21.2	0.000
		11. Contaminated cotton rags OR other cleaning materials	33.2	0.000
		12. Non-Recyclable plastic waste	33.1	0.000
		13. Date Expired/ Off specification product	29.3	0.000
		14. Electronic waste	31.1	0.625
		15. Mother liquor / wastewater	--	724.070
		16. Battery	--	**26 Nos. /0.582 MT**

CHEMINOVA INDIA LIMITED PANOLI

YEAR – 2022-23

PCB ID- 15015

PART-A

2	Total Quantity of Category wise waste disposal	Hazardous waste generation	Category	To Disposal Facility Quantity (in MT)	To Recycler Quantity (in MT)	Others Quantity (in MT)	Remarks (Details enclose as)
		1. Spent Solvents & (Stripped solvent)	20.2	--	--	--	No Disposal
		2. Process wastes or Residues	29.1	94.200			ANNEXURE- A
		3. Empty barrels/containers/ liners contaminated with hazardous chemicals/wastes	33.1	--	25.930	--	ANNEXURE-B
		4. Chemical sludge from wastewater treatment (ETP Sludge)	35.3	14.925	--	--	ANNEXURE-C
		Chemical sludge from wastewater treatment (Eva salt)	35.3	292.295	--	--	ANNEXURE- D
		5. Ash from incinerator and flue gas cleaning residue	37.2	--	--	--	No Disposal
		6. Used or spent oil	5.1	--	0.200	--	ANNEXURE- E
		7. Salts of per-Acids	B-36	--	--	--	No Disposal
		8. Asbestos Waste	15.1	--	--	--	No Disposal
		9. Insulation waste- glass wool	33.1	18.700			ANNEXURE-F
		10. Paint residue/ spent solvent	21.1 21.2	--	--	--	No Disposal
		11. Contaminated cotton rags OR other cleaning materials	33.2	--	--	--	No Disposal
		12. Non-Recyclable plastic waste	33.1	--	--	--	No Disposal
		13. Date Expired/ Off specification product	29.3	--	--	--	No Disposal
		14. Electronic waste	31.1	--	0.625	--	ANNEXURE-G
		15. Mother liquor / wastewater	--	--	--	724.070	ANNEXURE- H
		16. Battery	--	--	--	**26 Nos. /0.582 MT**	ANNEXURE-I

CHEMINOVA INDIA LIMITED PANOLI

3	Quantity utilized in-house	NIL

YEAR – 2022-23

PCB ID- 15015

PART-A

		Hazardous waste generation	Category	Quantity Generated (in MT)
3	Total Quantity of Category wise waste storage at the end of the year	1. Spent Solvents & (Stripped solvent)	20.2	0.000
		2. Process wastes or Residues	29.1	4.880
		3. Empty barrels/containers/ liners contaminated with hazardous chemicals/wastes	33.1	0.410
		4. Chemical sludge from wastewater treatment (ETP Sludge)	35.3	0.000
		Chemical sludge from wastewater treatment (Eva salt)	35.3	18.550
		5. Ash from incinerator and flue gas cleaning residue	37.2	0.000
		6. Used or spent oil	5.1	0.200
		7. Salts of per-Acids	B-36	0.000
		8. Asbestos Waste	15.1	0.000
		9. Insulation waste- glass wool	33.1	0.000
		10. Paint residue/ spent solvent	21.1 21.2	0.000
		11. Contaminated cotton rags OR other cleaning materials	33.2	0.000
		12. Non-Recyclable plastic waste	33.1	0.000
		13. Date Expired/ Off specification product	29.3	0.000
		14. Electronic waste	31.1	0.000
		15. Mother liquor / wastewater	--	0.000
		16. Battery	--	**0.000**

CHEMINOVA INDIA LIMITED PANOLI

PCB ID- 15015

PART-A
HAZARDOUS WASTE DISPOSAL DETAILS

ANNEXURE- A

(1) Process waste or Residue Cat -29.1

(a) For Incineration

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

(b) For Co-process

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	Disposed to
May-22	17-May-22	1737448	7.195	ECO WASTE
May-22	27-May-22	1748909	27.260	ECO WASTE
May-22	30-May-22	1751946	25.105	RSPL
May-22	31-May-22	1752733	26.995	RSPL
Oct-22	3-Oct-22	1853341	7.645	ECO WASTE
	TOTAL QUANTITY (In MT)		94.200	

ANNEXURE- B

(2) Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes Cat -33.1 – To Recycler/ Decontamination Facility

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Apr-22	7-Apr-22	1645169	0.970	Anas Green Environment Pvt. Ltd.
Apr-22	7-Apr-22	1675421	3.135	Anas Green Environment Pvt. Ltd.
Apr-22	14-Apr-22	1692553	0.985	Anas Green Environment Pvt. Ltd.
Apr-22	20-Apr-22	1699020	1.005	Anas Green Environment Pvt. Ltd.
May-22	11-May-22	1731531	0.800	Anas Green Environment Pvt. Ltd.
May-22	11-May-22	1731536	2.510	Anas Green Environment Pvt. Ltd.
Jan-23	13-Jan-23	1948380	0.990	Anas Green Environment Pvt. Ltd.
Jan-23	17-Jan-23	1951149	0.985	Anas Green Environment Pvt. Ltd.
Jan-23	19-Jan-23	1953503	2.730	Anas Green Environment Pvt. Ltd.
Jan-23	20-Jan-23	1954553	2.720	Anas Green Environment Pvt. Ltd.
Jan-23	23-Jan-23	1957177	2.715	Anas Green Environment Pvt. Ltd.
Jan-23	23-Jan-23	1957181	1.660	Anas Green Environment Pvt. Ltd.
Jan-23	30-Jan-23	1963654	2.760	Anas Green Environment Pvt. Ltd.
Feb-23	7-Feb-23	1972016	1.965	Anas Green Environment Pvt. Ltd.
	TOTAL QUANTITY (In MT)		25.930	

CHEMNOVA INDIA LIMITED PANOLI

ANNEXURE- C

3. **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-22	11-Nov-22	1885922	14.925	SEPL.
	TOTAL QUANTITY (In MT)		**14.925**	

ANNEXURE- D

4. **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-22	7-Apr-22	1675653	29.305	SEPL.
Apr-22	15-Apr-22	1694096	22.760	SEPL.
May-22	1-May-22	1711517	27.080	SEPL.
May-22	11-May-22	1731375	25.380	SEPL.
May-22	26-May-22	1743607	33.265	SEPL.
Jul-22	2-Jul-22	1778794	30.055	SEPL.
Jan-23	13-Jan-23	1948500	21.130	SEPL.
Jan-23	17-Jan-23	1951254	22.840	SEPL.
Jan-23	22-Jan-23	1956462	23.835	SEPL.
Jan-23	23-Jan-23	1957658	21.640	SEPL.
Jan-23	29-Jan-23	1963035	13.760	SEPL.
Jan-23	29-Jan-23	1963142	21.245	SEPL.
	TOTAL QUANTITY (In MT)		**292.295**	

ANNEXURE- E

(5) **Used or spent oil Cat-5.1 to Refiners**

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Jul-22	20-Jul-22	1790943	**0.200**	ABC Org.

CHEMNOVA INDIA LIMITED PANOLI

ANNEXURE- F

(6) Insulation waste- glass wool Cat -33.1 (Land filling _

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Apr-22	29-Apr-22	1709432	0.805	BEIL
May-22	10-May-22	1730346	0.960	BEIL
May-22	11-May-22	1731472	0.880	BEIL
May-22	14-May-22	1734809	0.755	BEIL
May-22	16-May-22	1736599	1.035	BEIL
May-22	23-May-22	1743607	0.595	BEIL
May-22	31-May-22	1753108	0.825	BEIL
Oct-22	18-Oct-22	1866218	1.230	BEIL
Oct-22	19-Oct-22	1867257	1.320	BEIL
Oct-22	20-Oct-22	1868075	1.425	BEIL
Oct-22	21-Oct-22	1869416	0.620	BEIL
Oct-22	22-Oct-22	1870281	1.465	BEIL
Oct-22	29-Oct-22	1873459	0.800	BEIL
Nov-22	9-Nov-22	1883521	1.180	BEIL
Nov-22	26-Nov-22	1900846	1.055	BEIL
Jan-23	9-Jan-23	1944418	0.660	BEIL
Feb-23	7-Feb-23	1972619	0.465	BEIL
Mar-23	6-Mar-23	2028327	1.430	BEIL
Mar-23	24-Mar-23	2044526	1.195	BEIL
	TOTAL QUANTITY (In MT)		**18.700**	

ANNEXURE- G

(7) E- waste

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	Disposed to
Sep-22	8-Sep-22	**341**	**0.625**	**BEIL**

ANNEXURE- H

(8) Mother liquor / wastewater

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	Disposed to
Apr-22	5-Apr-22	49136	21.445	Detox
Apr-22	7-Apr-22	49137	21.160	Detox
Apr-22	9-Apr-22	49138	20.285	Detox
Apr-22	10-Apr-22	49139	23.760	Detox
Apr-22	12-Apr-22	49140	22.060	Detox
Apr-22	13-Apr-22	49141	20.530	Detox

CHEMINOVA INDIA LIMITED PANOLI

Apr-22	23-Apr-22	49142	21.540	Detox
Apr-22	4/25/2022	49143	29.005	Detox
Month of disposal	**Date of disposal**	**Manifest No.**	**Quantity, MT**	**Disposed to**
Apr-22	4/27/2022	49144	20.675	Detox
May-22	24-May-22	49145	21.215	Detox
May-22	25-May-22	49146	27.215	Detox
May-22	28-May-22	49147	21.49	Detox
May-22	30-May-22	49148	23.315	Detox
Jun-22	19-Jun-22	49149	29.395	Detox
Jan-23	13-Jan-23	57521	20.400	Detox
Jan-23	14-Jan-23	57522	20.830	Detox
Jan-23	15-Jan-23	57523	20.615	Detox
Jan-23	16-Jan-23	57524	30.705	Detox
Jan-23	18-Jan-23	57525	30.030	Detox
Jan-23	20-Jan-23	57526	32.765	Detox
Jan-23	21-Jan-23	57527	21.160	Detox
Jan-23	22-Jan-23	57528	21.225	Detox
Jan-23	23-Jan-23	57529	20.615	Detox
Jan-23	24-Jan-23	57530	20.035	Detox
Jan-23	25-Jan-23	57211	21.045	Detox
Jan-23	26-Jan-23	57212	20.870	Detox
Jan-23	27-Jan-23	57213	20.315	Detox
Jan-23	28-Jan-23	57214	20.635	Detox
Jan-23	29-Jan-23	57215	20.195	Detox
Jan-23	30-Jan-23	57216	20.810	Detox
Jan-23	31-Jan-23	57217	20.800	Detox
Feb-23	3-Feb-23	57218	17.930	Detox
	TOTAL QUANTITY (In MT)		**724.07**	

ANNEXURE- I

(9) Used Battery

Month of disposal	Date of disposal	Invoice No.	Quantity Nos.	Disposed / sold to
May 22	25 May 2022	C2224SC00253	24 Nos. /0.504 MT (12 V 65 AH battery weight – 21 kg per nos)	Gayatri Dimensions
Aug-22	23-Aug -22	C2224SC00475 TO 476	02 Nos. /0.078 MT 12 V 100 AH battery – 28 KG 12 V 180 AH Battery – 50 KG	Surya Power Battery

DATE: 5th June 2023

PLACE: Panoli **Signature of Factory manager /Occupier**

CHEMINOVA INDIA LIMITED PANOLI

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

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	- LSI
Primary :- (STC Code)	Not Applicable
Secondary:- (SIC Code)	Not Applicable
iii) Production capacity:- Units	- ANNEXURE-1
iv) Year of establishment	- 1990
v) Date of the last environmental statement submitted	- 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 except pH & Temp.	Concentrations of pollutants in discharges (mass/volume) mg/l except pH & Temp.	Percentage of variation from prescribed standard with reasons
Average Flow 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	**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	**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

Characterizations of Hazardous waste **ANNEXURE -2**

Sr, No,	Description of waste	Physical Form	Waste Category No,	Sp, Gr,	% Solids	Chemical Composition	Method of disposal
1	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

SEMINOVA INDIA PRIVATE LIMITED