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: 26-04-2024

Ref.: CIL-TECH/EC-Comp/01/2024

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 October 2023 to March 2024.

Respected Sir,

In accordance to the condition specified in our EC, we hereby submit duly filled datasheet for monthly Monitoring report (October 2023 to March 2024) 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 October 2023 to March 2024.

Following are the Annexure to this report:

Annexure No.	Annexure Details
A	Six Monthly Monitoring report data sheet
1	Compliance report of EC

Please find the above in order and acknowledge receipt.

Thanking You,
Yours faithfully,

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

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

(October 2023 to March 2024)

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

CHEMINOVA INDIA LIMITED PANOLI

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: 01.10.2023 to 31.03.2024

No. CIL-Tech/ EC-Datasheet/02/2023			
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	:	
	a]. Address of Concerned Project Chief Engineer With Pin code & Telephone / Telex / Fax Numbers.	:	Mr. Anil Kumar Trivedi Plot No. 241, 242/2, 241/P Notified GIDC Industrial Estate, Panoli- 394 116, Dist. Bharuch, State-Gujarat, India. Tel. 9427786280, 02646618622
	b]. Address of Executive Project Engineer / Manager (with Pin code / Fax Number)	:	Mr. Anil Kumar Trivedi Plot No. 241, 242/2, 241/P Notified GIDC Industrial Estate, Panoli- 394 116, Dist. Bharuch, State-Gujarat, India. 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, Acid mist, SO2, PM
Flue Gas Emissions	Sox, Nox, PM
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 Manager, ETP supervisor and operators, Laboratory 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. • Workplace 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 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. • Workplace monitoring is carried out inhouse and periodically by Siddhi Green Excellence Pvt Ltd., Ankleshwar. • Unit has developed & maintained greenbelt area inside and outside the factory. • Unit is having closed system for loading and unloading of chemicals. • Unit is maintaining records for the fuel consumption 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 housekeeping to be adopted to prevent spillages and contaminated surface runoff going to storm water drains.	• Reuse and recycling of water is done. Roof top rainwater harvesting facility is provided and water is collected and reused in process. • Unit is maintaining records of water consumption, effluent generation, 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. • The effluent collection, effluent handling and treatment systems are maintained and regularly monitored to prevent leakages or break-down. Preventive maintenance of all ETP units is taken periodically. • Good housekeeping is maintained to prevent spillages and contaminated surface runoff going to storm water drains. Dykes and bunds for storages are maintained.
4	For Hazardous / Non-hazardous waste management • Proper storage and handling arrangements in compliance to the conditions of authorization granted by SPCB. • Proper signboards to be provided at relevant places. • All the necessary regulatory procedures as per the amended Hazardous Waste Management & Handling Rules – 2003 to be followed and adhered with.	• Unit has a dedicated storage areas for storage of all types of wastes. All the conditions stipulated in Authorization is complied. • Signboards are provided at relevant places. • Unit is complying all the regulatory procedures as per the amended Hazardous Waste Management & Handling Rules – 2016.

	• The transportation of hazardous waste to the TSDF Site to be as per the guidelines and accompanied with Form-9.	• Unit is following guidelines for transportation of hazardous waste to TSDF & CHWIF of M/s. BEIL. / Safe Enviro / SEPPIL, etc, Transporter is provided Form -9 with each consignment.
	• 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 forms – 4 and form – 13.	• Monthly records of generation, storage and disposal of hazardous waste are maintained in a record register as per the format of Form-3 as per amended Hazardous Waste rules and annual returns of disposal of all the hazardous waste are submitted to GPCB in prescribed forms.

7	Production details during compliance period and (or) during the previous financial year	:	Production Details Month – Quantity (MTM) Oct-23 – 0.000 Nov-23 – 0.000 Dec-23 – 0.000 Jan-24 – 36.229 Feb-24 – 147.262 Mar-24 – 138.621
8	Break Up of the Project Area	:	Unit is located in G.I.D.C Panoli. (Notified area)
	a]. Submergence area : forest & Non-forest		
	b]. Others		
9	Breakup of the project affected population with enumeration of those losing houses / dwelling units, only agricultural land, dwelling units & agricultural land & landless laborers / artisan.	:	Not applicable since unit is located in G.I.D.C Panoli (Notified area)
	a]. SC , ST / Adivasis	:	---
	b]. Others	:	---
	(Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey is carried out give details and years of survey)	:	---
10	Financial Details	:	
	a]. Project cost as originally planned and subsequent revised estimates and the year of price reference	:	Rs. 365.92 crore (For Proposed Expansion only)
	b]. Allocation made for environmental management plans with item wise and year wise break-up.	:	As follows

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	:	22 Lakh
	f] Actual expenditure incurred on the Environmental Management Plan so far		--
11	Forest land Requirement	:	Not applicable since unit is located in G.I.D.C Panoli (Notified area)
	a]. The status of approval for diversion of forest land for non-forestry use		--
	b]. The Status of clearing felling	:	--
	c]. The status of compensatory afforestation, if any		--
	d]. Comments on the viability & sustainability of compensatory afforestation programme in the light of actual field experience so far	:	--
12	The status of clear felling in non-forest areas (such as submergence area of reservoir, approach roads), if any with quantitative information.	:	Not applicable since unit is in G.I.D.C Panoli (Notified area)
13	Status of construction	:	Construction Work is in progress
	a]. Date of commencement (Actual and / or planned).	:	August 2022
	b]. Date of completion (Actual and / or planned)	:	Based on the commissioning of project within Five years.
14	Reasons for the delay if the project is yet to start	:	Not applicable
15	Dates of site visits		
	a]. The dates on which the project was monitored by the MoEF & CC, Regional Office on Previous occasions, (if applicable)	:	8th-Feb-2023 (visit by SPCB)
	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.)	:	--

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:

SN	Name of Product*	Existing (TPA)	Proposed (TPA)	Total (TPA)
1.	ORGANO PHOSPHATE: - ACEPHATE TECH. (I), DICHLORVOS (I), CHLORPYRIFOS (I), QUINALPHOS (I), TRIAZOPHOS (I), PHOSALONE (I), OMETHOATE (I), PROTHIOFOS (I), TEMEFOS (I), PROFENOFOS (I), ETHION (I), ETHWEPHON (PGR), GLYPHOSATE (H), etc.	800 TPA	---	800TPA
2.	STROBILURIN: - AZOXYSTROBIN TECH. (F), DES-METHOXYAZOXY (DMA) (INT.) KRESOXIM METHYL (F), FLOUXASTROBIN (F), PYRACLOSTROBIN (F).	1200 TPA	---	1200 TPA
3.	NEONICOTINOID/AMIDE: - IMI DACLOPRID TECH (I), 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
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	150 TPA	--	150TPA

Production of FMC-57091 / ISOXAZOLIDINONE

Month	Quantity (MT/Month)
Oct-23	0.000
Nov-23	0.000
Dec-23	0.000
Jan-24	36.229
Feb-24	147.262
Mar-24	138.621

CHEMINOVA INDIA LIMITED

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
	(I), ---CYFLUTHRIN (I) AND ITS ANALOGS, PERMETHRIN (I), BIOALLETHRIN (I), FENVALERATE (I), IMIPROTHRIN (I) etc.				
8.	CARBAMATE & THIO BASED PRODUCTS: - CARTAP.HCL TECH. (I), THIODICARB (I), THIOPHANATE-ME (F), PROPINEB (F), METIRAM (F), THIRAM (F), ISOPROTHIOLANE TECH (I), THIOCYCLAM (I), PROTHIOCARB (F), FLUTIANIL (F) etc.	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.				

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
	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 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 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	Water Quantity KL/Month	Limit as per CC&A
Oct-23	1809	679 KL/ Day
Nov-23	1566	
Dec-23	1372	
Jan-24	2334	
Feb-24	3500	
Mar-24	4230	

All the Industrial wastewater is treated through Effluent Treatment Plant, MEE and R.O. plant and recycled to process. There is no discharge of treated /untreated wastewater outside the unit. Zero Liquid Discharge is ensured.

Month	W.W. Quantity KL/Month in R.O.	Domestic W.W. Quantity KL/Month in STP	Limit as per CC&A
Oct-23	0	462	Industrial Waste Water is 451 KLD Domestic Waste water is 39.5 KLD.
Nov-23	114	390	
Dec-23	496	522	
Jan-24	700	474	
Feb-24	517	624	
Mar-24	397	665	

Fuel Consumption (Natural Gas) of existing utilities as per CC&A is given as below:

Month	Quantity NM3
Oct-23	10041
Nov-23	745
Dec-23	860
Jan-24	12809
Feb-24	27809

		Mar-24 | 32235
7.	The project/activities are covered under category A of item 5(b) 'Pesticides industry and Pesticide specific intermediates' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry.	As per granted EC Copy under category A of item 5(b) 'Pesticides industry and Pesticide specific intermediates' of the Schedule to the Environment Impact Assessment Notification, 2006.
8.	Standard terms of reference (ToR) for the project was granted on 8th April, 2018. Public hearing is exempted in accordance with the Ministry's OM dated 27th April 2018, as the project site is located in the notified industrial area.	Public hearing is exempted in accordance with the Ministry's OM dated 27th April 2018, as the project site is located at Plot No. 241, 242/2, 241/P Notified GIDC Industrial Estate, Panoli- 394 116, Dist. Bharuch, State-Gujarat, India.
9.	The proposal for environmental clearance was considered by the EAC (Industry-2) in its meetings held on 26-28 June, 2019 and 28-29 August, 2019 in the Ministry, wherein the project proponent and their accredited consultant M/s. Siddhi Green Excellence Pvt. Ltd presented the EIA/EMP report. The Committee found the EIA/EMP complying with the terms and conditions of the ToR, and recommended the proposal for environmental clearance to the project with certain conditions.	Noted. Unit shall adhere and complies all the given conditions.
10.	The proposal was further examined in the Ministry in accordance with the Ministry's Office Memorandum No. 22-23/2018-IA.III (pt) dated 31st October 2019 and Ministry's communication No. Q-16017/38/2018-CPA dated 24th October 2019 regarding compliance of Hon'ble NGT order dated 19.8.2019 (published on 23.8.2019) in OA No. 1038/2018.	Noted.
11.	Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for **Expansion of agrochemicals and their intermediates from 3533 TPA to 15583 TPA by M/s. Cheminova India Limited (Technical Division) at Plot Nos. 241, 242/2, 241/P, GIDC Industrial Estate, Panoli, Ankleshwar, District Bharuch (Gujarat)**, under the provisions of the EIA Notification, 2006, read with subsequent amendments therein, 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 13th September 2023 having AWH – 128040 with a validity upto 16th-April-2027.
	(ii) Necessary permission as mandated under the Water (Prevention and control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act 1981, as applicable from time to time, shall be obtained from the State Pollution Control Board.	Unit has obtained all necessary permission as under Water (Prevention and control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act 1981 from the State Pollution Control Board.
	(iii) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.	Unit has obtained all necessary permission under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) rules, 2016, from the GPCB Solid Waste Management Rules, 2016 are not applicable.

(iv)	As proposed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged to any surface water body, sea and/or on land.	Unit has obtained CC&A amendment and Zero Liquid Discharge is ensured and no waste/treated water is discharged to any surface water body, sea and/or on land.
(v)	National Emission Standards for Pesticides Manufacturing Industry issued by the Ministry vide G.S.R.446(E) dated 13th June, 2011, as amended from time to time, shall be followed.	National Emission Standards are complied.
(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 pesticides/chemicals banned 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.	All the pollution control devices are provided as stated in consent issued by State Pollution Control Board to comply with the gas emissions standard. The gaseous emissions are dispersed through stack of adequate height as prescribed in consent.
(viii)	Solvent management shall be carried out as follows : a. Reactor shall be connected to chilled brine condenser system. b. Reactor and solvent handling pump shall have mechanical seals to prevent leakages. c. The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery. d. Solvents shall be stored in a separate space specified with all safety measures. e. Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. f. Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. g. All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.	All requirements of effective Solvent management Plan are implemented.
(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.	Complied. Fresh water consumption data is as below: Month — Quantity KL/Month Oct-23 — 1809 Nov-23 — 1566 Dec-23 — 1372 Jan-24 — 2334 Feb-24 — 3500 Mar-24 — 4230
(x)	Process effluent/ any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.	Well-structured storm water drainage network is provided in such a way that process effluent / any wastewater is not getting mixed.
(xi)	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.	All the Hazardous chemicals are stored in tanks, tank farms, drums, carboys etc. Flame arresters are provided at all the tanks. Solvent transfer is done through pumps in closed loop system.

<table>
<tr><td>(xii)</td><td>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.</td><td>Details are attached as below:
<table>
<tr><th>Hazardous Waste Name</th><th>Disposal Quantity (MT)</th><th>Disposal mode</th></tr>
<tr><td>Process organic residue & spent carbon</td><td>25.105</td><td>Co-Processing</td></tr>
<tr><td>Process inorganic & evaporation salt</td><td>319.635</td><td>TSDF site</td></tr>
</table></td></tr>
<tr><td>(xiii)</td><td>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.</td><td>Unit stores all the hazardous chemicals based on the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. Also, all safety measures are taken for transportation of Hazardous chemicals and guidelines of the Motor Vehicle Act, 1989 are complied.</td></tr>
<tr><td>(xiv)</td><td>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.</td><td>Unit follows all the waste minimization measures.</td></tr>
<tr><td>(xv)</td><td>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.</td><td>The unit has developed 13450 sq. m. (~33.23%) of total plot area within plan premises. An Additional 7500 square meter (18 %) area provided outside premises in GIDC which is in progress and total green belt area will be 51%.</td></tr>
</table>

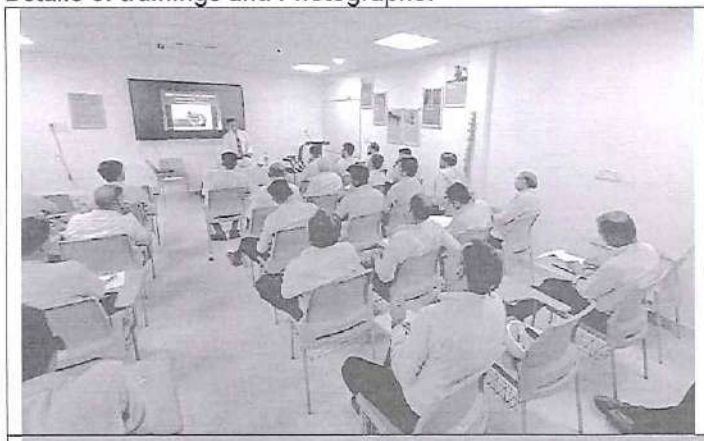
(xvi)	As committed, fund allocation for the Corporate Environment Responsibility (CER) shall be 5% of the total project cost. Item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.	Unit shall follow the given condition. Fund allocation for CER/CSR jobs for both Technical & Intermediate are as follow: • Providing skill training and support for women empowerment to Kharod village = 6.50 lakh = completed in June2022 • Providing skill training and support for women empowerment to Sanjali village = 6.50 lakh = completed in June2022 • Providing streetlight and solar roof top to Umarwada village as sustainable solution = 25 lakh = Completed in May2022 • Sponsorship of Cricket tournament trophy to Kharod village to encourage sports activities in young generation= 1.15 lakh = completed in June22 Total Fund Allocation In CER= 39.15 Lakh
(xvii)	Safety and visual reality training shall be provided to employees.	In house-training programs are conducted on monthly basis for SOPs and safety as per annual plan. Details as below: Hot Work, Confined Space Entry, Energy Isolation, Lockout/Tagout, Elevated Work, Line Breaking and Equipment Opening, HAM,

Details of the in-House training programs as per EHS Standard are as follow.

Sr. No.	Standard	Program Name
1	Hot Work Standard	EHS Panoli_HotWork Standard
2	Confined Space Entry Standard	EHS Panoli_Confined Space Entry Standard
3	Electrical Safety Standard	EHS Panoli_Electrical Safety Standard
4	Energy Isolation, Lockout/Tagout Standard	EHS Panoli Energy Isolation, Lockout/Tagout Standard
5	Elevated Work Standard	EHS Panoli_Elevated Work Standard
6	Line Breaking & Equipment Opening Standard	EHS Panoli Line Breaking & Equipment Opening Standard
7	Hazard Assessment & Mitigation Standard	EHS Panoli Hazard Assessment & Mitigation Standard
8	Hose Management Standard	EHS Panoli Hose Management Standard
9	Decommissioning	EHS Panoli Decommissioning
10	MSDS Standard	EHSPanoli MSDS Standard
11	Glassware Handling Standard	EHSPanoli Glassware Handling Standard
12	Chemical Storage Standard	EHSPanoli Chemical Storage Standard
13	Fume Hood Standard	EHSPanoli Fume Hood Standard
14	Open Blade Standard	EHSPanoli Open Blade Standard

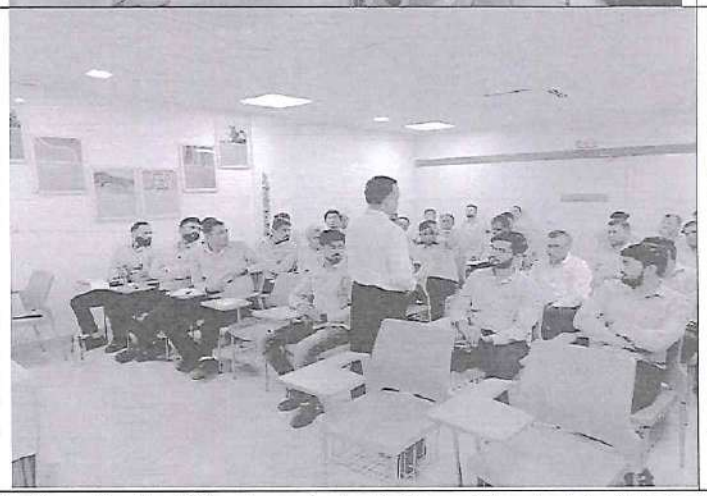
15	Personal Protective Equipment & Glove Use program	EHSPanoli Personal Protective Equipment & Glove Use program
16	Contract safety Standard	EHSPanoli Contract safety Standard
17	Breathing Air Standard	EHSPanoli Breathing Air Standard
18	Event Reporting standard	EHSPanoli Event Reporting standard
19	Effective Injury And Illness Case Management	EHSPanoli Effective Injury And Illness Case Management
20	Ground Transportation Safety Standard	EHSPanoli Ground Transportation Safety Standard
21	PSM Standard	EHSPanoli PSM Standard
22	Emergency response plan	EHSPanoli Emergency response plan

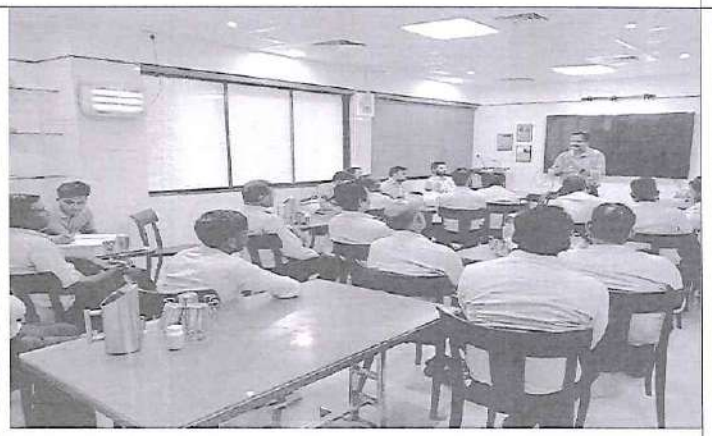
Details of trainings and Photographs:

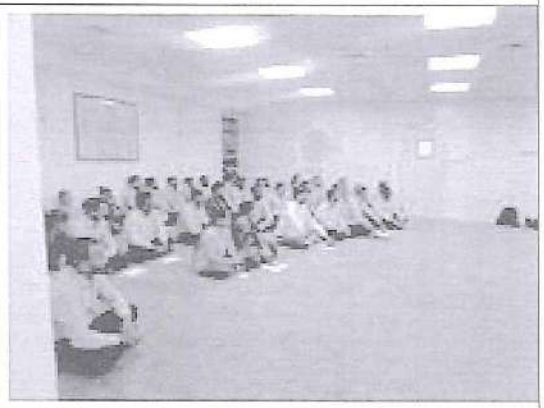


	Site 1	Site 2
Training Title	Fire Drill	Fire Drill
Venue	New Fire Pump system	Near ETP Area
Time	3:00 to 4:00	3:00 to 4:00
Target Audience	All Employees	All Employees
Date	27th Feb 2024	27th Feb 2024

	Site 1	Site 2
Training Title	SCABA	SCABA
Venue	ECS Area	ECS Area
Time	3:00 to 4:00	3:00 to 4:00
Target Audience	All Employees	All Employees
Date	28th Feb 2024	28th Feb 2024







(xviii)	For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	Presently, unit has appointed third party for carrying out regular monitoring of Flue gas analysis. Analysis reports for reference is attached below: Emissions are within specified limits. Acoustic enclosure is provided to DG set for controlling the noise pollution.

Siddhi Green Excellence PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/CILTD/ST/MAR/2024/01 — Date of Issue :26-03-2024

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

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

SR.NO.	DESCRIPTION	FLUE GAS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack No.1
1	PCB ID of Stack	8920
2	Sample ID	32441-FS-01
3	Name of Stack	BOILER (5 TPH.)
4	Details of Air Pollution Control Measure (APCM)	Not Specified
5	Date & Time of sampling	19-03-2024 & 11:55 h
6	Date of Receipt	19-03-2024
7	Date of Analyse start	20-03-2024
8	Date of Completion	21-03-2024

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

SR.NO.	Details of Stack Monitoring Kit			
1	Make	Universal Instruments	Instrument ID	SC-STM-04
2	Model	EQS 226	Calibration Valid upto	01-03-2025
3	Serial No.	02-DTK-2018		

	Details of Stack	
1	Stack Height	30 m
2	Stack Diameter	600 mm
3	Temperature of Flue gas	106°C
4	Velocity of Flue gas	8.5 m/s
	Details of Flue Gas	
1	Type of Fuel	Natural Gas
2	Rate of Consumption	7000 Sm^3/d

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE 2)	RESULTS
1	PM @ 12% CO_2	mg/Nm^3	IS 11255 (Part 1):1985	120	15
2	SO_2	ppm	IS 11255 (Part 2):1985	80	7
3	NO_x	ppm	IS 11255 (Part 7):2005	40	10

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

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :- None

Copy 1 of 2

Reviewed by — Authorized Signatory — Mrs. K. P. Shah / Mr. P. M. Shah

Notes : 1. Test results shall be referred to the tested sample(s) only and applicable parameter(s) only.
2. Permissible limits if mentioned in report are given by customer and included in the report upon request by customer.
3. Certificates of accreditation are available on lab's website with period of validity. If non-accredited parameters are analysed, their results are given on next page.
4. The opinions and interpretations if mentioned in report are given upon request by customer and based upon material and information supplied by customer.
5. Perishable samples will be disposed after testing, for other samples, retention time is 15 days from the date of issue of test report, unless otherwise specified by customer or by applicable regulations.
6. Laboratory has a complaint redressal system. Discrepancies if any in the test report must be brought to notice within 7 days of issue of test report.
7. This report shall not be used as evidence in the court of law and shall not be reproduced except in full, without prior written approval of Siddhi Green Excellence Pvt. Ltd.

*** End of Report ***

Page 1 of 1

Format No. : SC/LAB/F/Report-03 Issue No. : 02 Issue Date : 01-01-2019 Revision No. : 04 Revision Date : 01-03-2024

www.siddhigreen.com

GUJARAT'S 1ST

: Regd. Office : "Kamal Arcade - The Vertical Suncitech" Comm. Plot No. C-303, GIDC Station Road, Ankleshwar - 393 002. Dist. Bharuch, Gujarat State, (India). Tele. 02646 - 224603, 220605 E mail : siddhi.ank@gmail.com

: Dahej Off. : "SANSKARA BENLIF" 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/JAN/2024/03 — Date of Issue : 31-01-2024

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

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

SR.NO.	DESCRIPTION	FLUE GAS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack No.2
1	PCB ID of Stack	8822
2	Sample ID	31500-FS-02
3	Name of Stack	D.G.SET (1250 KVA)
4	Source	D.G.SET (1250 KVA)
5	Date & Time of sampling	23-01-2024 & 13:55 h
6	Date of Receipt	23-01-2024
7	Date of Analysis start	24-01-2024
8	Date of Completion	25-01-2024

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	116°C
4	Velocity of Flue gas	10.5 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% CO_2	mg/Nm^3	IS 11255 (Part 1)-1985	120	65
2	SO_2	ppm	IS 11255 (Part 2)-1985	80	17
3	NO_x	ppm	IS 11255 (Part 7)-2005	40	29
4	CO	mg/Nm^3	SC/LAB/STP/STK-09	-	18

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

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :- None

Copy 1 of 2

Verified by — Authorized Signatory — Mrs. K. P. Shah / Mr. P. M. Shah

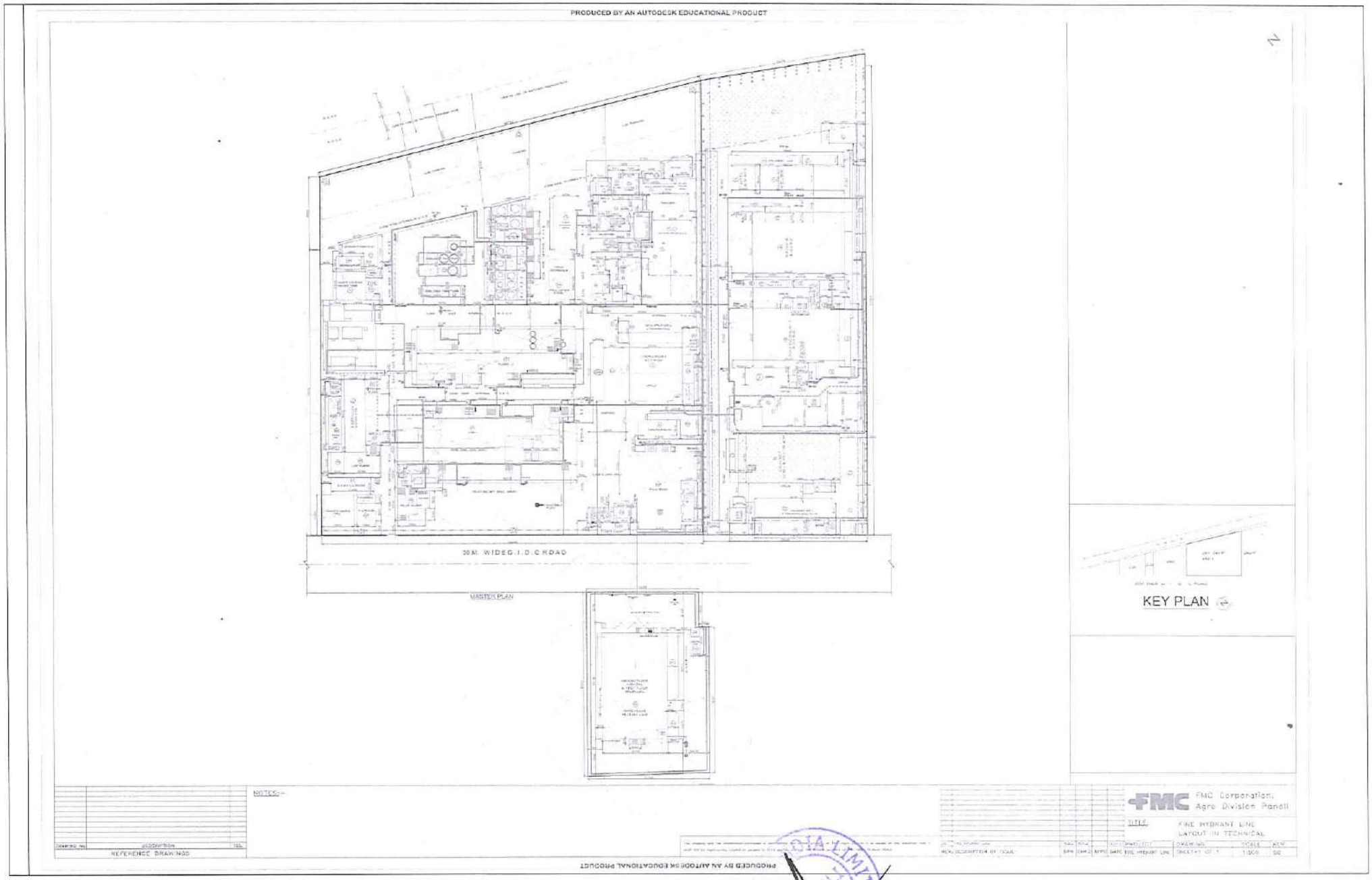
Notes : 1. Test results shall be referred to the tested sample(s) only and applicable parameter(s) only.
2. Permissible limits if mentioned in report are given by customer and included in the report upon request by customer.
3. Certificates of accreditation are available on lab's website with period 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 : 01-01-2019 Revision No. : 04 Revision Date : 01-03-2024 Page 1 of 2

GUJARAT'S 1ST — Regd. Office — Dahej Off.

(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.	All the arrangements are made for protection of possible fire hazard during manufacturing process and material handling, The Fire hydrant system and fire extinguisher are available in all the areas and safe practices are adopted for handling and processing of flammable materials.


PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT
30M. WIDE G.I.D.C ROAD
MASTER PLAN
KEY PLAN
NOTES:-
REFERENCE DRAWINGS
FMC Corporation, Agro Division Panoli
FIRE HYDRANT LINE LAYOUT IN TECHNICAL
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

(xx)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Pre-employment and regular medical checkup of company employees as well as contract employees is done by Factory Medical Officer and records are maintained. Photograph of medical checkup report is attached below:

MAHAVIR DIAGNOSTIC CENTRE

EARLY DIAGNOSIS IS BETTER THAN CURE

Dr. Amit R. Shah — Dr. Prasenit Shah

CHEMINOVA INDIA LIMITED GIDC PANOLI (FMC SUBSIDARY)

PERIODIC MEDICAL EXAMINATION

NAME: Janki Mehta — EMP CODE2028495 — DATE: 22/01/2024

AGE: 24 Years — WEIGHT: 51Kg — HEIGHT: 156 cm — PULSE: 92/min — BP: 110 / 66 mmHg

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

DEPT: API R&D

COLOR VISION : ACCEPTABLE

BLOOD EXAMINATION

PARAMETERS	FINDINGS	UNITS	NORMAL VALUES	PARAMETERS	FINDINGS	UNITS	NORMAL VALUES
HAEMOGLOBIN	13.4	gms/dl	[M:12-17 F:11-16]	BL.SUGAR [R]	86	mg/dl	[80 - 130]
WBC COUNT	5900	/cmm	[4000 - 11000]	S. CHOLESTEROL	185	mg/dl	[150 - 250]
NEUTROPHILS	70	%	[40 - 75]	S. G.P.T.	15	u/l	[4 - 36]
LYMPHOCYTES	28	%	[20 - 40]	S.CREATININE	0.8	mg/dl	[0.7 - 1.5]
EOSINOPHILS	2	%	[01 - 06]	RBC Count	4.67	lacs/cu.mm	[4.5 - 6.5 lacs]
MONOCYTES	2	%	[02 - 07]	PLATELETS	243000	/cu.mm	[1.5 - 4.5 lacs]
MCH	28.7	pg	[27 - 32]	BCA %	100	%	[> 72.5]
MCHC	28.3	%	[30 - 35]	RBC CHOLINESTERASE:	826	u/ml	[778 - 999]
PCV	47.3	%	[35 - 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:	1-2/hpf
APPERANCE:	CLEAR.	BILE SALT:	ABSENT.	CRYSTAL:	ABSENT.
DEPOSIT:	ABSENT.	BILE PIG:	ABSENT.	EPI CELLS:	Absent
		ACETONE:	ABSENT.	CAST:	ABSENT.

LUNG FUNCTION TEST

	RESULT	PREDICTED	%PRED
FVC	2.17	2.43	112
FEV1	2.42	2.57	110
PEF	5.13	5.44	106
FEF 25-75%	2.26	2.35	104

Spirometry Within Normal Limits.

AUDIOMETRY TEST

FREQ.	500	1K	2K	4K	6K	8K
RIGHT	25	20	25	15	20	15
LEFT	10	10	20	10	15	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. Prasenit Shah

CHEMINOVA INDIA LIMITED GIDC PANOLI (FMC SUBSIDARY)

PERIODIC MEDICAL EXAMINATION

NAME: Pratik Shingane — EMP CODE2028717 — DATE: 22/01/2024

AGE: 26 Years — WEIGHT: 58Kg — HEIGHT: 170 cm — PULSE: 84/min — BP: 120 / 74 mmHg

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

DEPT: API R&D

COLOR VISION : ACCEPTABLE

BLOOD EXAMINATION

PARAMETERS	FINDINGS	UNITS	NORMAL VALUES	PARAMETERS	FINDINGS	UNITS	NORMAL VALUES
HAEMOGLOBIN	13.5	gms/dl	[M:12-17 F:11-16]	BL.SUGAR [R]	87	mg/dl	[80 - 130]
WBC COUNT	5100	/cmm	[4000 - 11000]	S. CHOLESTEROL	184	mg/dl	[150 - 250]
NEUTROPHILS	57	%	[40 - 75]	S. G.P.T.	22	u/l	[4 - 36]
LYMPHOCYTES	37	%	[20 - 40]	S.CREATININE	0.8	mg/dl	[0.7 - 1.5]
EOSINOPHILS	2	%	[01 - 06]	RBC Count	4.69	lacs/cu.mm	[4.5 - 6.5 lacs]
MONOCYTES	6	%	[02 - 07]	PLATELETS	180000	/cu.mm	[1.5 - 4.5 lacs]
MCH	29.4	pg	[27 - 32]	BCA %	87.5	%	[> 72.5]
MCHC	28.5	%	[30 - 35]	RBC CHOLINESTERASE:	864	u/ml	[778 - 999]
PCV	48.4	%	[35 - 54]	BLOOD GROUP: A	RH:	NEGATIVE	

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	2.60	2.66	110
FEV1	2.80	3.11	111
PEF	5.59	6.24	112
FEF 25-75%	2.70	2.79	103

Spirometry Within Normal Limits

AUDIOMETRY TEST

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

E.C.G.: WITHIN NORMAL LIMIT

REMARKS :

NOT SUFFERING FROM ANY INFECTIOUS OR OBNOXIOUS DISEASE

Dr. Amit Shah

CHEMINOVA INDIA LIMITED

	(xxi)	Continuous online (24×7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.	Since Natural Gas is used for boiler operations, continuous online (24×7) monitoring system for stack emissions is not recommended by SPCB. However, regular monitoring of flue gas analysis is done by Siddhi Green Excellence Pvt. Ltd., Ankleshwar. Since unit is Zero Liquid Discharge, the online continuous monitoring of effluent, web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises are provided.
	(xxii)	Mitigation measures suggested during process safety and risk assessment studies shall be undertaken accordingly.	Unit has carried out detailed process safety and risk assessment study in the operational phase and mitigation measures of the same are implemented.
11.1	The grant of environmental clearance is subject to compliance of other general conditions, as under:-		
	I.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board, Central pollution Control Board, State Government and any other statutory authority.	Noted and agreed.
	II.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Further expansion or modifications shall be done only after obtaining prior approval of the Ministry of Environment, Forest and Climate Change.
	III.	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be decided in consultation with the State Pollution Board (SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Ambient Air quality monitoring is done by Third party recognized laboratory and locations are decided in consultation with SPCB considering the upwind and downwind directions and maximum ground level concentrations are anticipated.
	IV.	The National Ambient Air Quality Emission Standards issued by the ministry vide G.S.R.No.826 (E) Dated 16th November, 2009 shall be followed.	Unit follows 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.

Siddhi Green Excellence
PRIVATE LIMITED

TEST REPORT OF AMBIENT NOISE MEASUREMENT

REPORT NO : SGEL/TD/NL/MN/2024/13 Date of Issue : 31-01-2024

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	31500
Date of Monitoring	23-01-2024 (Day Time) & 23-01-2024 (Night Time)	Measured By	Mr. Dilip
Instrument used	LUTRON make Noise Level Meter (Model No. SL-4030)	Instrument ID	SG-NM-06
Frequency Weighing	A	Time Weighing	FAST
Procedure : As per Work Instruction of Instrument and as per IS-3889 1981, windcover used during measurement			
Environmental Conditions:		Season	Winter

DAYTIME READINGS (6 AM TO 10 PM)			NIGHT TIME READINGS (10 PM TO 6 AM)		
Time and Duration of Monitoring	15:10 to 16:00 h		Time and Duration of Monitoring	23:00 to 23:30 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
28	2.8	NE-SW	24	2.5	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	62	NL-11	57
2	Near ETP Area	NL-02	69	NL-12	68
3	Near CPP	NL-03	64	NL-13	63
4	Near Boiler	NL-04	67	NL-14	60
5	Near Utility	NL-05	73	NL-15	65
6	Near Azoxy Plant	NL-06	65	NL-16	59
7	Near ACP Plant	NL-07	60	NL-17	60
8	Near Fire Pump House	NL-08	69	NL-18	68
9	Near DG sets	NL-09	67	NL-19	65
10	Near Work Shop	NL-10	68	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
Any other remarks :- None
Abbreviations used :- None

SGPM 4 GF2

Verified by | Authorised Signatory
Mrs. K. P. Shah / Mr P. M. Shah

Notes : 1. Test results shall be referred to the tested sample(s) only and applicable parameter(s) only.
2. Permissible limits if mentioned in report are given by customer and included in the report upon request by customer.
3. Certificates of accreditation are available on lab's website with period of validity. If non-accredited parameters are analysed, their results are given on next page.
4. The opinions and interpretations if mentioned in report are given upon request by customer and based upon material and information supplied by customer.
5. 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. : SG/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 PLASTIC CLUSTER WITH EFFLUENT TREATMENT BY GIDC
: Regd. Office :
"Kamla Arcade - The Vertical Suburb" Comm. Plot No. C-3/3
GIDC Station Road, Ankleshwar - 393 002, Dist. Bharuch,
Gujarat State, India. Tel. : (02646) - 224505, 223208
E-mail : siddhi.lab@gmail.com
Dahej Off. :
"SANSKARA AVENUE SHOPING CENTER"
P.O. JOLVA, TA. VAGRA, DIST. BHARUCH
TEL. : (02641) - 254041

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

Details of Roof top rainwater harvesting.

Month	Rainwater (KL)
Oct-23	5
Nov-23	22
Dec-23	94
Jan-24	0
Feb-24	0
Mar-24	0
Total	121

VII.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Unit complies with the given condition.
VIII.	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	Noted. Unit adhere and complies all the given conditions.
IX.	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. ESC activities shall be undertaken by involving local villages and administration.	Unit undertake Corporate social activities for the betterment of surrounding villages.
X.	The company undertakes eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Unit carry out CER activities as per the plan mentioned in the EIA report.
XI.	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the state Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	Unit commits that funds earmarked for environment management/ pollution control measures are not diverted for any other purpose.
XII.	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	Unit has sent copy of the clearance letter to Panchayat, Zilla Parishad/ Municipal Corporation, Urban local Body and the local NGO.
XIII.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF & CC, the respective Zonal Office of CPCB and SPCB. A copy of environmental clearance and six-monthly compliance status report shall be posted on the website of the company.	Six monthly compliance of Environmental Clearance conditions including results of monitored data are uploaded on PARIVESH portal and posted on the website of the company.
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	Unit is complying with the given condition. Form-V is regularly submitted to SPCB for each financial year. Copy of Form -V is attached

		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 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, Tal. 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 25/11/2019 **Authorized Signatory--SD--**

જાહેર સૂચના	પર્યાવરણીય મંજૂરી

આ સાથે જણાવવામાં આવે છે કે મિનિસ્ટ્રી ઓફ એન્વાયરમેન્ટ, ફોરેસ્ટ અને ક્લાઈમેન્ટ ચેન્જ દ્વારા મે. કેમિનોવા ઈન્ડિયા લિમિટેડ (ટેક્નિકલ ડિવિઝન) પ્લોટ નંબર - ૨૪૧, ૨૪૨/૨, ૨૪૧/P, નોટીફાઈડ જી.આઈ.ડી.સી. ઈન્ડસ્ટ્રીયલ એસ્ટેટ, પાનોલી-૩૯૪ ૧૧૬, તાલુકાઃ અંકલેશ્વર, ડિસ્ટ્રિક્ટ, ભરૂચ, સ્ટેટઃગુજરાત ખાતે હાલનુ એકમ સૂચિત એગ્રોકેમિકલ્સ તથા તેના ઈન્ટરમીડિયેટ્સ ના વિસ્તરણ માટેની પર્યાવરણીય મંજૂરી નવેમ્બર, ૨૫, ૨૦૧૯ ના પત્ર દ્વારા [ફાઈલ ક્રમાંક IA-J-11011/85/2018-IA-II(I)] ઈ.આઈ.એ. નોટિફીકેશન તારીખ ૧૪ સપ્ટેમ્બર ૨૦૦૬ની જોગવાઈ હેઠળ આપેલ છે.

પર્યાવરણીય મંજૂરીના પત્રની નકલ MoEF&CC (PARIVESH) ની વેબસાઈટ (http://moef.nic.in) ઉપર ઉપલબ્ધ છે.

તારીખઃ ૨૬/૧૧/૨૦૧૯ સહીઃ--

	XVI.	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Unit will submit the relevant details time to time to the concerned authority.
12.		The ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.	Unit shall comply with the additional conditions if stipulated by the ministry.
13.		Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Unit will not conceal factual data and false data shall not be submitted. Unit does not support such type of malpractice.
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.

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

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

CHEMINOVA 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/2022-23/09/05/23

ID: 15015

Date: 5Th September 2023

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 2022-23

Respected Sir,

Please find enclosed the duly filled Environment Statement in Form-V for the financial year 2022-23

Please acknowledge the same.

This is for your kind perusal please

Thanking you,
Yours faithfully,

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

RECEIVED
G. P. C. Board
R. O. Ankleshwar
Date: 06/09/2023

Enclosures: Form —V

CC To: Regional Officer, GPCB, Ankleshwar.

FORM - V

(See Rule 14)

From :

CHEMINOVA INDIA LTD.

Technical Division Plot no 241 , 242/2 & 241/P,

GIDC Panoli,Tal Ankleshwar Dist Bharuch

To:

Gujrat Pollution Control Board,

Paryavaran Bhavan, sector 10 A

Gandhinagar -382010

Environmental Statement for the financial year ending the 31st March, 2023

PART -A

i) Name & address of the Owner/Occupier of the industry, operation or process	- **Mr.Manoj Khanna** CHEMINOVA INDIA LTD. Technical Division Plot no 241 , 242/2 & 241/P, GIDC Panoli,Tal Ankleshwar Dist Bharuch
ii) Industry category Primary :- (STC Code) Secondary:- (SIC Code)	- LSI Not Applicable Not Applicable
iii) Production capacity:- Units	- ANNEXURE-1
iv) Year of establishment	- 1990
v) Date of the last environmental statement submitted	- 5Th September 2022

PART -B

Water & Raw Material Consumption

i) Water consumption - M^3/day	-	67	m3/day
Process	-	8	m3/day
Cooling	-	26	m3/day
Domestic	-	33	m3/day

Process water consumption per product output (Lit./ Kg)		
Name of products	During the previous financial year 2021-2022 (1)	During the current financial year 2022-2023 (2)
(1) Technical, Paclo, TCP, ISOXAZOLIDINONE (F-57091 Na)	19.97	37.99

*Note - Process water consumption incresae due to 71% less prodcution compared to previous Year

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 2022-2023
1	2-CIT	TCP	0.615 Kg/ Kg	0.000 Kg/ Kg
2	NaOH FLAKES		0.198 Kg/ Kg	0.000 Kg/ Kg
3	CCMP		1.176 Kg/ Kg	0.000 Kg/ Kg
4	MeOH		0.587 Kg/ Kg	0.000 Kg/ Kg
1	Pacloketone	Paclobutazole	1.065 Kg/ Kg	1.062 Kg/ Kg
2	NaBH4		0.040 Kg/ Kg	0.041 Kg/ Kg
3	30% HCl		0.126 Kg/ Kg	0.125 Kg/ Kg
4	Methanol		0.469 Kg/ Kg	0.409 Kg/ Kg
5	NaHCO3		0.051 Kg/ Kg	0.047 Kg/ Kg
1	Sodium Isopropyl Xanthate	ISOXAZOLIDINONE (F-57091 Na)	0.003 Kg/ Kg	0.003 Kg/ Kg
2	Hydroxylamine Sulfate		0.777 Kg/ Kg	0.807 Kg/ Kg
3	CPC		1.275 Kg/ Kg	1.275 Kg/ Kg
4	H2SO4		0.034 Kg/ Kg	0.028 Kg/ Kg
5	Toluene Ltr.		0.040 Kg/ Kg	0.040 Kg/ Kg
6	Sodium Hypochlorite, Sol.		1.032 Kg/ Kg	1.003 Kg/ Kg
7	Sodium Hydroxide		1.226 Kg/ Kg	1.399 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
a) **Water**		**TPD**	**mg/L**	
		Zero Discharge Unit	Zero Discharge Unit	
b) **Air**		**TPD**	**mg/Nm^3**	
Azoxy Plant				
	Chlorine	0.0000	0.82	.--
	Hydrogen Chloride	0.0000	1.54	.--
Boiler				
	SPM	0.0028	14.44 mg/nm3	.--
	SOx	0.0033	5.89 ppm	.--
	NOx	0.0046	11.33 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 2022-2023**
a) **From Process**		
Category **Type of Waste**		
(1)Evaporation Salt	777,090	**292295**
(2) Waste Used Oil	-	**200**
(3) Discarded Container Bag Liner(Cat 33.1)	12,965	**44630**
(4) Process waste (Cat-29.1)	660,375	**94200**
(5) Spent Solvents	Nil	**Nil**
(6) Stripped Solvent	Nil	**Nil**
b) **From Pollution Control facilities**		
ETP Sludge	30,865	**14925**

PART -E

Solid Wastes

	Total Quantity in Kgs	
	During the previous financial year 2020-2021	**During the current financial year 2022-2023**
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

FEMINOVA 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 Dual Fuel Technology (NG and diesel) has been adopted in D.G. Sets (Backup Generators)

(2) Solar PV has been installed in car parking area for use Non Conventional Energy

(3) 350 TR Compressor efficiency Improvement has been done to save Energy

PART -H

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

1. Recycling of Treated Effluent in process and Cooling Tower etc is done as Rverse Osmosis (R.O.) Plant is in operation

2. Domestic Effluent is treated separately in Sewage Treatment Plant (STP) and Treated water is used for Gardening / Planation

PART - I

Any other particulars for improving the quality of the environment.

(1) 'Rationalization of cooling tower has been done to safe Energy

(2) 4Rthon project has been implemented to conserve natural resources

'(3) World Environment DaY was celebrated on 5th June and tree plant was done inside the premises

Date: 5-Sep-23

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

CHEMINOVA INDIA LIMITED PANOLI

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.

CHEMINOVA INDIA LIMITED PANOLI

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	3250
12	4S Zeta Cypermethrin F-2700 Zeta Cypermethrin	150

CHEMINOVA INDIA LTD. PANOLI

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
9	Salts of Per-Acids	Solid / Liquid	B36	x		Ammonium Sulphate / Ammonia Solution / Sodium Chloride / Sodium Sulfate / Potassium Chloride / Potassium Sulfate	: Disposal by sell out to authorized users having rule 9 & authorization in valid CCA / Disposal at TSDF Facility at BEIL & SEPPL/ Safe Enviro
10	Asbestos waste	Solid	15.1	x		Asbestois	Collection, Storage, Transportation & Disposal to common TSDF at BEIL / SEPPL/ Safe Enviro
11	Insulation waste – glass wool.	Solid	33.1	x		Insulation Glass wool contaminated with chemicals	Collection, Storage, Transportation & Disposal to common TSDF at BEIL / SEPPL/ Safe Enviro
12	Paint residue,	Slurry	21.1,	x		Paint and its residue in container	Collection, Storage, Decontamination, sale to authorize traders, Decontamination Facility / scrap dealers /reuse Or Disposal at
13	Spent solvent	Liquid	21.2	x		Thiner	

Characterizations of Hazardous waste

ANNEXURE -2

Sr, No,	Description of waste	Physical Form	Waste Category No,	Sp, Gr,	% Solids	Chemical Composition	Method of disposal
14	Contaminated cotton rags or other cleaning materials	Solid	33.2	x		Cotton contaminated with chemicals	Collection, Storage, Transportation & Disposal to common TSDF/ CHWIF facility at BEIL / SEPPL/ Safe Enviro
15	Non Recyclable Plastic waste (PP / FRP)	Solid	33.1	x		Non recyclable Plastic Bags, Pipes , Equipments etc.	Collection, Storage, Transportation & Disposal to common TSDF at BEIL / SEPPL/ Safe Enviro
16	Date Expired/off Specification Product	Solid	29.3	x		Off Specification products	Collection, Storage, Transportation Disposal at TSDF / CHWIF Facility at – BEIL & SEPPL/ Safe Enviro
17	Electronic waste.	Solid	33.1	x		Electronic waste.	Collection, Storage, Transportation & Sold to actual end user is having permission
18	Mother liquor / waste water	Liquid	-	1.15		Waste water with high TDS and low Cod	Sent to incinerated in common incinerator facility at BEIL or Detox SEPPL OR Send it for co-processing to cement Industries OR Send to MEE at external facility OR Send for dryer at external facility.

CHEMINOVA INDIA LIMITED PANOLI