FMC | An Agricultural Sciences Company

Cheminova India Limited
Intermediate Division
(27+28)/A, GIDC Estate,
Panoli - 394 116
Dist. Bharuch (Gujarat)
India.
cheminova.panoli@fmc.com
Phone : 02646 - 618500/01/02/03
Mo. : +91 97252 02658
fmc.com / fmc.in
CIN NO. U24100MH1986PLC038627

Date: 21-12-2021

Ref.: CIL-I/ECComp/02/2021

To,
The Ministry of Environment, Forests & Climate Change
Regional Office, Western Region,
"Kendriya Paryavaran Bhavan", Link Road No.3,
E-5, Ravishankar Nagar,
Bhopal - 462 016, State: M.P, India

Sub: Submission of Compliance Report of M/s. Cheminova India Limited (Intermediate Division) for our EC No. IA-J-11011/53/2018-IA-II (I), dated 31/12/2019 for the period of June 2021 to November 2021.

Respected Sir,

In accordance to the condition specified in our EC, we hereby submit duly filled datasheet for monthly Monitoring report (June 2021 to November 2021) for implementation of stipulated conditions of our EC together with point wise compliance status of various stipulations.

Following are the Annexure to this report:

Annexure No.	Annexure Details
A	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 (2020-2021)
5.	Environmental statement- Form V (2020-2021)

Please find the above in order and acknowledge receipt.

Thanking You,

Yours faithfully,
For M/s. Cheminova India Limited (Intermediate Division)

CHEMINOVA INDIA LIMITED PANOLI

Authorized Signatory

Copy to:

1. The Secretary, Forest and Environment Department, Government of Gujarat, Block 14, 8th Floor, Sachivalaya, Gandhinagar (Gujarat)-10.
2. The Member Secretary, Central Pollution Control Board, Parivesh Bhavan, CBD-Cum Office Complex, East Arjun Nagar, New Delhi – 32.
3. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector – 10A, Gandhinagar (Gujarat) – 10.

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

SIX MONTHLY

EC COMPLIANCE REPORT

(June 2021 to November 2021)

For

M/s. Cheminova India Limited
(Intermediate Division)

(Manufacturing of Pesticides& Pesticide specific Intermediates)
Plot No. (27+28)/A, Notified GIDC Industrial Estate, Panoli,
Dist. Bharuch 394 116, State-Gujarat, India.

Submitted to:
The Ministry of Environment, Forests & Climate Change
Regional Office, Western Region,
"Kendriya Paryavaran Bhavan", Link Road No.3,
E-5, Ravishankar Nagar,
Bhopal - 462 016, State: M.P, India

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A –Six Monthly Monitoring Report - DATA SHEET

Monitoring the Implementation of Environmental Safeguards
Ministry of environment & Forests
Regional Office (W), Bhopal
Six Monthly Monitoring Reports
PART – 1
From: 01.06.2021 to 30.11.2021

No. Cheminova-Int/EC-Datasheet/02-2021			
1	Project Type : River-Valley / Mining Industry / Thermal / Nuclear / other (Specify}	:	Pesticides Industry and Pesticide Specific Intermediates (Excluding Formulations)
2	Name of the Project	:	Expansion of Pesticide and Pesticide Specific Intermediates at Existing Unit M/s. Cheminova India Limited (Intermediate Division).
3	Clearance Letter(s)/ OM No. & Date	:	IA-J-11011/53/2018-IA-II(I), Date: 31st December 2019
4	Location		
	a]. District (s)	:	Bharuch
	b]. State (s)	:	Gujarat
	c]. Latitude / Longitude	:	21°32'50.49"N/ 72°59'52.28"E
5	Address for Correspondence	:	Plot No. (27+28)/A, Notified GIDC Industrial Estate, Panoli, Dist. Bharuch 394 116, State-Gujarat, India.
	a]. Address of Concerned Project Chief Engineer With Pin code & Telephone / Telex / Fax Numbers.	:	Mr. Anil N Shah Tel. – 9714993368
	b]. Address of Executive Project Engineer / Manager (with Pin code / Fax Number)	:	Mr. Anil N Shah Tel. – 9714993368
6	Salient Features		
	a]. Of the Project	:	As detailed below

Components	Proposed Scenario
EC No.	IA-J-11011/53/2018-IA-II(I)
Environmental Clearance accorded for-	Product name attached in Annexure-1
Total Power Requirement	3500 KVA
Source of Power	DGVCL
Fresh Water requirement	764 KL/day
Source of Water Supply	GIDC water supply
Wastewater Generation	Industrial : 833 KL/day Domestic : 45 KL/day
Process Emissions	HCl, NH_3, Cl_2, SO_2,NO_x, H_2S, CO, HC, PM
Flue Gas Emission	PM, SO_2, NOx
Fuel Type	Natural gas or Furnace oil, HSD, Briquettes/ Bagasse/ Groundnut shell
Fuel Requirement	Natural Gas- 10800 Nm^3/h, HSD- 90 L/h, Briquettes/ Bagasse/ Groundnut shell - Briquettes 5186 kg/h

Man power	Total: 600 (Company + 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.)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 practices have been implemented by the unit to prevent spillages and contaminated surface runoff going to storm water drains.
4	For Hazardous / Non-hazardous waste management) Proper storage and handling arrangements in compliance to the conditions of authorization granted by SPCB.	)Appropriate storage and handling arrangements for all the hazardous waste are provided as per the conditions specified in the authorization granted by GPCB.

Proper signboards to be provided at relevant places.	Signboards are 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 is following all the applicable 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 all the TSDF & CHWIF and is 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.	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 -2020-2021) is attached as Annexure-4.

7	Production details during compliance period and (or) during the previous financial year		Production Details Month / Quantity (MTM) June 2021 / 571.753 July 2021 / 545.600 August 2021 / 585.700 September 2021 / 522.650 October 2021 / 585.920 November 2021 / 576.900
8	Break Up of the Project Area	:	Notified GIDC Industrial Estate, Panoli
	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 Notified GIDC Industrial Estate, Panoli
	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. 790.36 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	683	600
2	Water Pollution Control	1366	1200
3	Noise Pollution Control	5	3
4	Environment Monitoring & Management	153	90
5	Occupational Health & Safety	50	12
6	Green Belt development & maintenance	20	5.0

		7	Solid waste management	228	8290
			TOTAL Planned	2505	10200

	c]. Benefit cost ratio / Internal rate of return and the year of assessment	:	Not applicable
	d]. Whether (c) includes the cost of environmental management as shown in the above	:	Yes
	e]. Actual expenditure incurred on the project so far	:	--
	f] Actual expenditure incurred on the Environmental Management Plan so far		--
11	Forest land Requirement	:	Notified GIDC Industrial Estate, Panoli
	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.	:	Notified GIDC Industrial Estate, Panoli
13	Status of construction	:	Construction Initiated
	a]. Date of commencement (Actual and / or Planned).	:	--
	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	:	--
15	Dates of site visits		
	a]. The dates on which the project was monitored by the Regional Office on Previous occasions, if any	:	--
	b]. Date of site visit for this monitoring project	:	12-10-2021
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 &CC&A/CTO compliance reportsare attached as Annexure –1& 2.

Annexure 1 -Compliance report of Environment Clearance

<table>
<tr><th>Sr. No.</th><th>Conditions</th><th>Compliance Status</th></tr>
<tr><td>2.</td><td>The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for expansion of pesticides and pesticide specific intermediates from 19705 TPA to 47681 TPA by M/s. Cheminova India Limited (Intermediate Division) in an area of 149163.17 sq. m. located at Plot Nos. (27+28)/A, GIDC Industrial Estate, Panoli, Taluka:Ankleshwar, District Bharuch (Gujarat).</td><td>Noted</td></tr>
<tr><td>3.</td><td>The details of products are as under:-
<table>
<tr><th rowspan="2">SN</th><th rowspan="2">Name of Product</th><th colspan="3">Quantity (MT/Annum)</th></tr>
<tr><th>Existing (TPA)</th><th>Proposed (TPA)</th><th>Total (TPA)</th></tr>
<tr><td>1.</td><td>Phosphorous Trichloride (PCL_3)/ Phosphoryl Chloride ($POCL_3$)</td><td>1000</td><td>--</td><td>1000</td></tr>
<tr><td>2.</td><td>Tri Methyl Phosphite(TMP) OR Tri Ethyl Phosphite(TEP)</td><td>100</td><td>--</td><td>100</td></tr>
<tr><td>3.</td><td>Diethyl Thio Phosphoryl Chloride (DETPC)/Sodium Salt Of Diethyl Thio Phosphoryl Chloride (Na-DETA)</td><td>5330</td><td>2670</td><td>8000</td></tr>
<tr><td>4.</td><td>Cyhalothrin Acid</td><td>250</td><td>--</td><td>250</td></tr>
<tr><td>5.</td><td>Phosphorous Penta Sulphide (P_2S_5)</td><td>3400</td><td>--</td><td>3400</td></tr>
<tr><td>6.</td><td>Acid Based Products [2-Bronobutyric Acid (INT),Ethyl 2-(4-Hydroxy Phenoxy) Propinoate (O- HPPA) (INT), Thiocyclam (I), Bispyribac-Sodium (H), Methoxy Amine Hydrochloride (INT), 2-Hydroxyphenyl Acetic Acid (HPPA) (INT), Amino Acid (INT)] etc.</td><td>150</td><td>--</td><td>150</td></tr>
<tr><td>7.</td><td>Amide Group Based Products [Pretilachlor (H), Captan (F), Cymoxanil (F), Beflubutamide (H), Pethoxamide (H), Carboxin (F), Flubendamide (I),Chlorantraniliprole (I), Thiaflusamide (F), Zoxamide(F), Flufenacet (H), 2 Aminosulfonyl-N-N- Dimethylnicotinamide (SNA) (INT), 2- (Methoxycarbonyl) Thiophene Thiophene-3 Sulfonamide (MST) (INT)] etc.</td><td>150</td><td>--</td><td>150</td></tr>
<tr><td>8.</td><td>Aniline Group Bases Products [Pendirnethalin(H), Fluazinam (F), ,Metaiaxyi (F), Famoxadone (F)] etc.</td><td>1200</td><td>--</td><td>1200</td></tr>
<tr><td>9.</td><td>Azine group based products Fenpyroximate (I), Metribuzin (H), Pymetrozin (I), Arnitraz (I), Indoxacarb (I), Cofentezine (I), 2 Methoxy-4-Methyl-6-Methylamino-1,3,5-Triazine (MMMT) (INT) etc.</td><td>300</td><td>--</td><td>300</td></tr>
<tr><td>10.</td><td>Azole Group Based Products [Fipronil (I), Hexaconazole (F), Propiconazole (F), Difenoconazole (F), Tricydazole (F), Myclobutanil (F), Florasulam (H), Tebuconazole (F), Flusilazole (F), Tridemefon, Paclobutrazol (F), Thiamethoxam (I), Flutriafol (F), (Safenerlsoxadifen Ethyl (Int), Irnidacloprid (I), 2, 6 Dichlorobenzoxazolone(Int),</td><td>200</td><td>--</td><td>200</td></tr>
</table></td><td>Noted. Unit has applied for partial CC&A Amendment, Inward No. 203050 on dated 07th September 2021. Production data as per existing CTO is as below:
<table>
<tr><th colspan="2">Production Details for Compliance period: June 2021 to November 2021</th></tr>
<tr><th>Month</th><th>Quantity (MT/Month)</th></tr>
<tr><td>June 2021</td><td>571.753</td></tr>
<tr><td>July 2021</td><td>545.600</td></tr>
<tr><td>August 2021</td><td>585.700</td></tr>
<tr><td>September 2021</td><td>522.650</td></tr>
<tr><td>October 2021</td><td>585.920</td></tr>
<tr><td>November 2021</td><td>576.900</td></tr>
</table></td></tr>
</table>

Sr. No.	Conditions					Compliance Status
		Penoxasulam(H)] etc.				
	11.	Carbamate Group Based Product [Thiodicarb(I), Propineb (F), Metiram (F), Thiram (F), Cartap Hydrochloride (I), Thiophanate Methyl (F)] etc.	500	--	500	
	12.	Ester group based products [Fenoxaprop-p-Et (H),Clodinafop-Pr(H),Quizolfop-p-ethyl (H),Quinzolfop-p-terfuryl(H),Cyhalofop(H), Isoprothiolane (F),Alphamethrin(I), Lambda Cyhaothrin(I), Cypermethrin (I),Bifenazate(I), Phthalide (Int) etc.	300	--	300	
	13.	Ether group based products [Propargite(I), oxyfiuorfen(H), 2 Ethoxy Ethyl Amine (Int), S- Cyano MPB (Int)] etc.	200	--	200	
	14.	Ketone group based product [Mesotrione(H), Suctioned (H),Isoxanutole(H), Dimethomorph (F),Isobutyrophenone (IBP) (Int)] etc.	1200	--	1200	
	15.	Phosphate group based product [Chlorpyrifos (I) or its intermidiate Na-TCP (Int), Acephate (I),Monocrotophos(I) or its intermediates MCMMAA (Int.), Dimethoate (I),Profenofos(I), Ethephon (PGR)] etc.	5000	--	5000	
	16.	Pyridine group based product [Pyridalyl(I),Imazethapyr(H)CloquintocctMexyl(H), Acetamiprid (I), 4, 6-DiChloro Pyridine (Int)], Azoxvstrobin(F) etc	250	--	250	
	17.	Urea group based product [Buprofezin(I), Lufenuron (I), Linuron (H),Diafenthiuron(I), Diuron (H), Novaluron (I), Chlorimuron (int),Hexythiazox(I),Spiromesifen(I),Azimsulfuron(H) ,Sulfonyl Ureas(H)] etc.	100	--	100	
	18.	Phenol group based product [2- Cyanophenol (Int), 4- Fluro-3 trilluromethylphenole (Int)] etc.	75	---	75	
	19.	Sulfentrazone	---	2000	2000	
	20.	F-9600 (2-(2,4-Dichlorobenzyl)-4,4-Dimethylizoxazolidin-3one)/Bixlozone	---	4200	4200	
	21.	F 9990 (Fluindapyr)	---	1200	1200	
	22.	Malathion	---	10000	10000	
	23.	F-4050 (2-(4-Fluoro-3-(Trifluoromethyl)Phenoxy)-N-Benzylbutanamide	---	1500	1500	
	24.	Beflubutamide	---	450	450	
	25.	Gamma Cyhalothrin	---	300	300	
	26.	Bifenthrin	---	300	300	
	27.	Clomazone	---	2000	2000	
	28.	FMC-57091 (4,4-Dimethyl Isoxazolidin-3-One)/(Isoxazolidinone)	---	2600	2600	
	29.	Thifensulfuron Methyl	---	205	205	
	30.	Tribenuron Methyl	---	215	215	
	31.	Metsulfuron Methyl	---	200	200	
	32.	Ethametsulfuron Methyl	---	10	10	

<table>
<tr><th>Sr. No.</th><th>Conditions</th><th>Compliance Status</th></tr>
<tr><td></td><td>
<table>
<tr><td>33.</td><td>Chlorsulfuron</td><td>---</td><td>60</td><td>60</td></tr>
<tr><td>34.</td><td>Triflusulfuron Methyl</td><td>---</td><td>50</td><td>50</td></tr>
<tr><td>35.</td><td>Azimsulfuron</td><td>--</td><td>4</td><td>4</td></tr>
<tr><td>36.</td><td>Flupyrsulfuron Methyl Sodium</td><td>---</td><td>12</td><td>12</td></tr>
<tr><td></td><td>Total</td><td>19705</td><td>27976</td><td>47681</td></tr>
</table>
</td><td></td></tr>
<tr><td>4.</td><td>Existing land area is 149163.17 sqm. No additional land will be required for the proposed expansion. Industry has developed greenbelt in an area of 49497 sqm covering 33.18% of total project area. The estimated project cost is Rs. 790.36 crores. Total capital cost earmarked towards environmental pollution control measures is Rs 25.05 crores and the recurring cost (O&M) will be about Rs 102 crores per annum. The project will provide employment for 178 persons directly and 422 persons indirectly after expansion.</td><td>Noted. The condition mentioned beside will be followed.</td></tr>
<tr><td>5.</td><td>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 flows at a distance of 1.66 km in west direction.</td><td>Noted.</td></tr>
<tr><td rowspan="2">6.</td><td>Total water requirement is estimated to be 1351 cum/day, which includes fresh water requirement of 764 cum/day, proposed to be met from GIDC supply.</td><td>Unit shall adhere to the condition after the commencement of the project. Present water consumption is within the limits as specified in existing CC&A. Details are as below:
<table>
<tr><th>Month</th><th>Quantity (KL/Month)</th></tr>
<tr><td>June 2021</td><td>10434</td></tr>
<tr><td>July 2021</td><td>12216</td></tr>
<tr><td>August 2021</td><td>8866</td></tr>
<tr><td>September 2021</td><td>10766</td></tr>
<tr><td>October 2021</td><td>14066</td></tr>
<tr><td>November 2021</td><td>11235</td></tr>
</table></td></tr>
<tr><td>Effluent of 206 cum/day will be treated through Effluent Treatment Plant (ETP) having Primary, Secondary & Tertiary Treatments, & treated effluent of 181 cum/day is discharged into underground conveyance pipeline connected to Final Effluent Treatment Plant (FETP) of M/s. Narmada Clean Tech (NCT). It has been now proposed that after expansion, existing and proposed unit shall ensure zero liquid discharge and there will be no discharge of treated/untreated waste water from the unit.</td><td>Up to 10th October 2021 treated effluent was discharged into underground conveyance pipeline connected to FETP of M/s. Narmada Clean Tech (NCT). On 13th October application was summitted to NCT to discontinue Effluent Disposal. On 30th October 2021, NCT Representative disconnected the flow meter, and removed the Data Recorder and sealed the Effluent Discharge line.

Total waste water generation/ disposal details as below
<table>
<tr><th>Month</th><th>Quantity (KL/Month)</th></tr>
<tr><td>June 2021</td><td>5115</td></tr>
<tr><td>July 2021</td><td>4853</td></tr>
</table></td></tr>
</table>

Sr. No.	Conditions	Compliance Status	
		August 2021	4077
		September 2021	4551
		October 2021	1551
		November 2021	0

FMC | An Agricultural Sciences Company

Cheminova India Limited
Intermediate Division
(27+28)/A, GIDC Estate,
Panoli - 394 116
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Phone : 02646 - 618500/01/02/03
Mo. : +91 97252 02658
fmc.com / fmc.in
CIN NO. U24100MH1986PLC038627

Ref No: CIL/Inter /NCTL /2021/10/03 /001

Date: October13, 2021
PCB ID: 15016

To,

NARMADA CLEAN TECH LIMITED.
Surti Bhagor,
Umar Wada Road,
Ankleshwar-393-001

Subject: Discontinue discharge of effluent from Cheminova India Ltd, Intermediate Division, plot No. 27+28/A, Panoli.
Membership Certificate No. P/M/E/D/C-11

Respected Sir,

We have received Environment Clearance. Based on Environment Clearance we have applied to Gujarat Pollution Control Board for CCA amendment. One of the EC condition is implementing Zero Liquid Discharge from unit. With reference to this, GPCB officials visited at site and instructed to apply for disconnection of effluent discharge through NCTL pipeline.
Hence we request your good office to process for disconnection of effluent line at earliest. We have already stopped discharge through pipeline. We have also intimated Panoli Notified Area Office for disconnection.
Kindly let us know in case of any other formality.
Attached is membership certificate for your reference.

Thanking you,

Yours faithfully,
For CHEMINOVA INDIA LTD. (Intermediate Division)

Anil N Shah
(Factory Manager)
Intermediate Division

Encl: - Membership Certificate No. P/M/E/D/C-11

NARMADA CLEAN TECH NCT Ankleshwar
31/10/21

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

NCT

NARMADA CLEAN TECH
(A subsidiary of GIDC)

Contact Person:
Mo.:
Email ID:

Magnetic Flow meter Reading Report for the Month of OCTOBER-2021 (Final Discharge)

TO,

CHEMINOVA INDIA LTD.(INTER)
(Plot No-27/28), GIDC Estate, **P-2**
Panoli-394116

Meter Make	
Meter/Seal No	
Meter Size	
CCA Qty(KLD)	
Pump Serial No.	
DATE	6/10/21

Date	*Opening Reading at 10.00 a.m*	*Diff. KL/Day*	*CO's Repre. Sign*	*NCT Repre. Sign*	*Remarks/Breakdown*
01/10/2021	604563	140			
02/10/2021	605005	110			
03/10/2021	605115	198			
04/10/2021	605313	166			
05/10/2021	605479	176			
06/10/2021	605655	199			605643
07/10/2021	605854	175			Pen Drive Updated
08/10/2021	606029	199			Old Seal - 1979
09/10/2021	606228	188			New Seal 759
10/10/2021	606416	0			
11/10/2021	606416	0			Date 30/10/21
12/10/2021	606416	0			Unit for 4 hrs and
13/10/2021	606416	0			Recorder Removed from
14/10/2021	606416	0			Line & Because the
15/10/2021	606416	0			Discharge is not and
16/10/2021	606416	0			Recorder Removed from
17/10/2021	606416	0			Line Blind from Flange
18/10/2021	606416	0			Installed with Seal
19/10/2021	606416	0			in the line
20/10/2021	606416	0			Blind Flange Seal No:
21/10/2021	606416	0			784 785 786 787
22/10/2021	606416	0			& Pen Drive Updated
23/10/2021	606416	0			from Total Readings
24/10/2021	606416	0			606416
25/10/2021	606416	0			
26/10/2021	606416	0			
27/10/2021	606416	0			
28/10/2021	606416	0			
29/10/2021	606416	0			
30/10/2021	606416	0			
31/10/2021	606416	0			
01/11/2021		0			
Total Discharge		1551			

M.I Representative Name & Sign
J.S. Parmar

NCT Person Name & sign
NCT Ankleshwar

Surti Bhagor, Nr. Gujarat Gas Office, Umarwada Road, Ankleshwar - 393 001, Dist. Bharuch (Gujarat)
Tel : 84697 45285, 97267 45635, E-mail : info@nctc.co.in, Website : www.nctc.co.in - CIN : U40101GJ2000NPL037236

Sr. No.	Conditions	Compliance Status
	RO Plant MEE Plant	
	Power requirement after expansion will be 3500 KVA proposed to be met from M/s Dakshin Gujarat Vij Company Limited (DGVCL). Existing unit has one DG set of 1250 KVA. Two more DG sets of 1250 & 1500 KVA will be required under proposed expansion.	Unit shall comply with the given condition.
	Existing unit has two natural gas based boilers of 10 TPH capacities each and one briquettes/ bagasse/ groundnut shell based boiler of 18 TPH capacity. Incinerator (for waste gas) and one natural gas based thermic fluid heater of 10 lakh Kcal/h will be installed in the expansion.	Unit shall comply with the given condition.
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.	Noted and complied
8.	Standard terms of reference (ToR) for the project were granted on 23rdMarch, 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.	Noted.
9.	The proposal for environmental clearance was considered by the EAC (Industry-2) in its meetings held on 8-9th April, 2019 and 26-28 June, 2019 in the Ministry, wherein the project proponent and their accredited consultant M/s. Siddhi Green Excellence Pvt. Ltd presented 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.	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 dated 31st October 2019 and Ministry's communication 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	Noted.

Sr. No.	Conditions	Compliance Status
	Environment, Forest and Climate Change hereby accords environmental clearance to the project for Expansion of Pesticides and Pesticide Specific Intermediates from 19705 TPA to 47681 TPA by M/s. Cheminova India Limited (Intermediate Division) at Plot No.(27+28)/A, GIDC Industrial Estate, Panoli, Taluka 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.	Consent to Establish was obtained via out ward No. 15866 dated 4th June 2020.
	(ii) Zero Liquid Discharge shall be ensured including existing facility and the proposed expansion facility and no waste/treated water shall be discharged outside the premises.	Unit is complying with the given condition. Unit has applied for partial CC&A Amendment, Inward No. 203050 on dated 07th September 2021. And has maintained ZLD from November 2021.
	(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 strictly adhere to the given condition.
	(iv) National Emission Standards for Pesticides Manufacturing Industry issued by the Ministry vide G.S.R.446(E) dated 13thJune, 2011, as amended from time to time, shall be followed.	Unit shall follow the given condition.
	(v) 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.
	(vi) To control source and the fugitive emissions (at 99.98%), 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.
	(vii) 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 shall be ensured, fulfilled and taken care during execution of project

<table>
<tr><th>Sr. No.</th><th>Conditions</th><th>Compliance Status</th></tr>
<tr><td></td><td>(viii) Total fresh water requirement shall not excess 764 cum/day to be met from GIDC water supply. Prior permission in this regard shall be obtained from the concerned regulatory authority.</td><td>Noted and Complied.</td></tr>
<tr><td></td><td>(ix) 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</td><td>Well structured storm water drainage network is already available at site.</td></tr>
<tr><td></td><td>(x) 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.</td><td>Unit has provided flame arresters in tank farm and solvent transfer is done through pumps with mechanical seals.</td></tr>
<tr><td></td><td>(xi) 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>Hazardous waste disposal details during the period June 2021 to November 2021 is as below:
<table>
<tr><th>Hazardous Waste Name</th><th>Disposal Quantity (MT)</th><th>Disposal mode</th></tr>
<tr><td>Process waste and res residue</td><td>1403.475</td><td>Co-Processing</td></tr>
<tr><td>Process waste and res residue</td><td>24.725</td><td>Incineration</td></tr>
<tr><td>ETP sludge</td><td>12.24</td><td>TSDF site</td></tr>
</table></td></tr>
<tr><td></td><td>(xii) 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 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 are taken for transportation of Hazardous chemicals and guidelines of the Motor Vehicle Act, 1989 shall be followed.</td></tr>
<tr><td></td><td>(xiii) 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 shall follow the given condition.</td></tr>
<tr><td></td><td>(xiv) 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 49471 sq. m. (~33.17%) of total plot area within plan premises. An Additional 11000 sq.m. (7.37%) area provided outside the premise (in GIDC) which is in progress and total green belt area will be 40%.</td></tr>
<tr><td></td><td>(xv) 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.</td><td>Unit shall follow the given condition.
Total 63 lakh have been spent under Corporate</td></tr>
</table>

Sr. No.	Conditions	Compliance Status
		Environment Responsibility (CER) for both Technical Division and Intermediate Division. Break up of expenses are as under : 1. Green Belt Development = 8 Lac 2. Rainwater Harvest = 15 Lac 3. C Arm equipment donation to Jayaben Modi Hospital = 23 Lac 4. Oxygen Plant donation to Sardar patel Hospital= 17 Lac Total expenses are 63 lakh.
	(xvi) 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 are 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), 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

Sr. No.	Conditions	Compliance Status

			Contractor
9.	Decommissioning	Detailed Training	Production, Engineering, Material, EHS, QC, HR Staff
10.	Lab Standard		
	FMC Laboratory Minimum Safety Standards: MSDS	Detailed Training	QC and R&D Department
	Laboratory Minimum Safety Standards: Glassware Handling	Detailed Training	QC and R&D Department
	FMC Laboratory Minimum Safety Standards: Chemical Storage	Detailed Training	QC and R&D Department
	FMC Laboratory Minimum Safety Standards: Fume Hoods	Detailed Training	QC and R&D Department
11.	Glove Use Standard	Detailed Training	All Department /visitors /contractors
12.	PPE	Detailed Training	All Department /visitors /contractors
13.	MOC	Detailed Training	All Department
14.	Incident Management standard,	Detailed Training	All Department
	Effective Injury and		
	Illness Case		
	Management Guideline		
15.	Process Safety Module	Detailed Training	Manufacturing / Engineering /
16.	No-1 and No-2		Technical Services

Photographs of trainings:

	(xvii) 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 regularmonitoring of Flue gas analysis. Analysis reports for reference is attached below:

Sr. No.	Conditions	Compliance Status
	Siddhi Green Excellence PRIVATE LIMITED TC 5007 TEST REPORT REPORT NO. : SC/CILID/ST/OCT/2021/03 Date of Issue : 30-10-2021 Issued to: M/s. CHEMINOVA INDIA LTD. (INTERMEDIATE DIV.) Address: PLOT NO.27,28/A GIDC ESTATE:PANOLI, TA: ANKLESHWAR,DIST: BHARUCH-394116 SR.NO. DESCRIPTION — FLUE GAS STACK EMISSION ANALYSIS Particulars of Sample — Stack No.3 1 PCB ID of Stack — - 2 Sample ID — 20371-FS-03 3 Name of Stack — D.G.SET (1250 KVA) 4 Source — D.G.SET (1250 KVA) 5 Date & Time of sampling — 25-10-2021 & 12:35 h 6 Date of Receipt — 25-10-2021 7 Date of Analysis start — 26-10-2021 8 Date of Completion — 27-10-2021 Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01 (Issue No. : 01 Issue Date : 01-08-2018 Revision No. : 00) Details of Stack 1 Stack Height — 9 m 2 Stack Diameter — 400 mm 3 Temperature of Flue gas — 121 °C 4 Velocity of Flue gas — 7.9 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 RA2019 / 120 / 63 2 SO2 / ppm / IS:11255 (Part 2)-1985 RA2019 / 80 / 21 3 NOx / ppm / IS:11255 (Part 7) 2005 RA2017 / 40 / 26 4 CO / mg/Nm3 / SC/LAB/STP/STK-05 / - / 9.5 Additions to, deviations, or exclusions from the method :-None Results from external providers, if any :- None Any other remarks :-None Abbreviations used :- None copy 2 of 2 Verified by: Mrs. Fatema M. Jadliwala (Technical Manager) Authorized Signatory: Mrs. Kuntal P. Shah (Quality Manager) / Mr. Purvesh M. Shah (CEO & MD) 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 : 02 Revision Date : 30-06-2020 page 1 of2 www.siddhigreen.com GUJARAT'S 1ST PLATINUM CERTIFIED NEW GREEN INTERIORS BY IGBC : Regd. Office : "Kamal Arcade - The Vertical Sunclock" Comm. Plot No. C-3/3, GIDC Station Road, Ankleshwar - 393 002. Dist. Bharuch, Gujarat State. (India). Tele. : 02646 - 224805. : Dahej Off. : "SANSKAR AVENUE" Shop No. GF 37, P. O. Jolva, Ta. Vagra. Dist. Bharuch. Tele : 02641 - 254041 E-mail : siddhi.ank@gmail.com	**Siddhi Green Excellence PRIVATE LIMITED** TEST REPORT REPORT NO. : SC/CILID/ST/OCT/2021/03 Date of Issue : 30-10-2021 Issued to: M/s. CHEMINOVA INDIA LTD. (INTERMEDIATE DIV.) Address: PLOT NO.27,28/A GIDC ESTATE:PANOLI, TA: ANKLESHWAR,DIST: BHARUCH-394116 SR.NO. DESCRIPTION — FLUE GAS STACK EMISSION ANALYSIS Particulars of Sample — Stack No.3 1 PCB ID of Stack — - 2 Sample ID — 20371-FS-03 3 Name of Stack — D.G.SET (1250 KVA) 4 Source — D.G.SET (1250 KVA) 5 Date & Time of sampling — 25-10-2021 & 12:35 h 6 Date of Receipt — 25-10-2021 7 Date of Analysis start — 26-10-2021 8 Date of Completion — 27-10-2021 Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01 (Issue No. : 01 Issue Date : 01-08-2018 Revision No. : 00) Details of Stack 1 Stack Height — 9 m 2 Stack Diameter — 400 mm 3 Temperature of Flue gas — 121 °C 4 Velocity of Flue gas — 7.9 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 NMHC/HC / mg/Nm3 / By GC - FID / - / BDL Additions to, deviations, or exclusions from the method :-None Results from external providers, if any :- None Any other remarks :-None copy 2 of 2 Abbreviations used :- BDL-Below Detection limit Verified by: Mrs. Fatema M. Jadliwala (Technical Manager) Authorized Signatory: Mrs. Kuntal P. Shah (Quality Manager) / Mr. Purvesh M. Shah (CEO & MD) Notes : 1. Test results shall be referred to the tested sample(s) only and applicable parameter(s) only. 2. Permissible limits if mentioned in report are given by customer and included in the report upon request by customer. 3. The opinions and interpretations if mentioned in report are given upon request by customer and based upon material and information supplied by customer. 4. 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. 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. 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	(xviii) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.	The possible arrangement had been made for protection of possible fire hazard during mfg. process and material handling, The Fire hydrant system and fire extinguisher is made available throughout the premises and safe practices are adopted for handling and processing of flammable material
	(xix) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the	Presently, Pre-employment medical checkup of all employees

Sr. No.	Conditions	Compliance Status
	Factories Act.	and contract workers is carried out by FMO and records are maintained. Full medical checkup of all employees as well as contract workers is carried out Six-monthly and records are maintained. BCA testing for all employees & workers exposed to production & packaging of pesticides carried by LOVIBOND kit for all before joining and periodic testing-monthly test for contract workers and every 3 months for company employees. Health register in Form No.32 & certificate of fitness is issued to workers by FMO in Form No.33. Photograph of medical checkup report is attached below:

MAHAVIR DIAGNOSTIC CENTRE
EARLY DIAGNOSIS IS BETTER THAN CURE
95/3/1, Opp. K.M. Munshi Hall, Manav Mandir, New Colony, GIDC, Ankleshwar - 393 002. Phone : (02646) 252511 E-mail : dramitrshah@yahoo.com
Dr. Amit R. Shah M.B.B.S., A.F.I.H. — Dr. Prasmit Shah MD (PATH) A.F.I.H., M.E.S.F
+ Medical Advisor & Industrial Health Consultant. + Pre-Employment/Periodical Medical Examination Pre-Placement Medical Examination. + Executive Health Check-up. + Computerised Audiometry, Spirometry, ECG. + Computerised Pathological Laboratory. + First Aid Training ST. John Ambulance Association. + Sonography, X-ray + Tmt, Echo. + Authorised for medical examination of seafarers

CHEMINOVA INDIA LIMITED GIDC PANOLI (FMC SUBSIDARY) 154

NAME: Mr. Piyush V Gandhi — DATE: 25/08/2021
EMP CODE 147293 — DEPT: Stores — UNIT: Site-2
AGE: 51 Years — WEIGHT: 87 Kg — HEIGHT: 170 cm — PULSE: 92/min — BP: 134/ 80 mmHg
VISION : RIGHT LEFT — NEAR : N/ 6 N/ 6 WITH SPECT — FAR : 6/ 6 6/ 6 ADV:SPECTS — 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]	91	mg/dl	[80 - 130]
WBC COUNT	5100	/cmm	[4000 - 11000]	S. CHOLESTEROL	194	mg/dl	[150 - 250]
NEUTROPHILS	68	%	[40 - 75]	S. G.P.T.	21	u/l	[4 - 36]
LYMPHOCYTES	30	%	[20 - 40]	S.CREATININE	0.7	mg/dl	[0.7 - 1.5]
EOSINOPHILS	2	%	[01 - 06]	RBC Count	4.66	lacs/cu.mm	[4.5 - 6.5 lacs]
MONOCYTES	0	%	[02 - 07]	PLATELETS	189000	/cu.mm	[1.5 - 4.5 lacs]
MCH	27.8	pg	[27 - 32]	BCA %	100.00	%	[> 72.5]
MCHC	33.0	%	[30 - 36]	RBC CHOLINESTERASE:	876	u/mill	[778 - 998]
PCV	45.9	%	[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:	1-2/hpf
APPERANCE:	CLEAR:	BILE SALT:	ABSENT:	CRYSTAL:	ABSENT:
DEPOSIT:	ABSENT:	BILE PIG:	ABSENT:	EPI CELLS:	Absent
		ACETONE:	ABSENT:	CAST:	ABSENT:

LUNG FUNCTION TEST

	RESULT	PREDICTED	%PRED	
FVC	3.74	3.69	101	
FEV1	3.74	3.18	118	
PEF	7.85	6.79	116	Spirometry Within Normal Limits.
FEF 25-75%	4.95	3.64	136	

AUDIOMETRY TEST

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

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

Dr. Amit Shah
Industrial Health Consultant
MBBS AFIH

MAHAVIR DIAGNOSTIC CENTRE
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CHEMINOVA INDIA LIMITED GIDC PANOLI (FMC SUBSIDARY) 153

NAME: Mr. Bhavesh B Patel — DATE: 25/08/2021
EMP CODE 147487 — DEPT: Instrument — UNIT: Site-2
AGE: 44 Years — WEIGHT: 71 Kg — HEIGHT: 164 cm — PULSE: 68/min — BP: 136/ 80 mmHg
VISION : RIGHT LEFT — NEAR : N/ 6 N/ 6 WITH SPECT — FAR : 6/ 6 6/ 6 WITH SPECT — COLOR VISION : ACCEPTABLE

BLOOD EXAMINATION

PARAMETERS	FINDINGS	UNITS	NORMAL VALUES	PARAMETERS	FINDINGS	UNITS	NORMAL VALUES
HAEMOGLOBIN	13.2	gms/dl	[M:12-17, F:11-16]	BL.SUGAR [R]	94	mg/dl	[80 - 130]
WBC COUNT	5300	/cmm	[4000 - 11000]	S. CHOLESTEROL	222	mg/dl	[150 - 250]
NEUTROPHILS	65	%	[40 - 75]	S. G.P.T.	20	u/l	[4 - 36]
LYMPHOCYTES	35	%	[20 - 40]	S.CREATININE	0.9	mg/dl	[0.7 - 1.5]
EOSINOPHILS	0	%	[01 - 06]	RBC Count	4.68	lacs/cu.mm	[4.5 - 6.5 lacs]
MONOCYTES	0	%	[02 - 07]	PLATELETS	216000	/cu.mm	[1.5 - 4.5 lacs]
MCH	26.2	pg	[27 - 32]	BCA %	88.00	%	[> 72.5]
MCHC	32.4	%	[30 - 36]	RBC CHOLINESTERASE:	880	u/mill	[778 - 998]
PCV	44.7	%	[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:	Occasional
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	3.43	3.75	91	
FEV1	3.43	3.07	112	
PEF	8.88	6.86	129	Spirometry Within Normal Limits.
FEF 25-75%	4.93	3.19	155	

AUDIOMETRY TEST

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

E.C.G.: Adv:TMT,ECHO
REMARKS :
NOT SUFFERING FROM ANY INFECTIOUS OR OBNOXIOUS DISEASE

Dr. Amit Shah
Industrial Health Consultant
MBBS AFIH

Sr. No.	Conditions	Compliance Status
	(xx) 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.	Unit shall follow the given condition.
	(xxi) Mitigation measures suggested during process safety and risk assessment studies shall be undertaken accordingly.	Unit shall carry out detailed process safety and risk assessment study in the operational phase and mitigation measures of the same shall be implemented properly.
11.1	The grant of environmental clearance is subject to compliance of other general conditions, as under:-	Noted
	(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.	Noted
	(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.	Unit carries out Ambient Air quality monitoring. Analysis results of the same is attached for reference:

Sr. No.	Conditions	Compliance Status

Siddhi Green Excellence PRIVATE LIMITED

TC-5007

TEST REPORT

REPORT NO. : SC/CILID/AAQM/SEP/STATION-1/2021/53 Date of Issue : 04-10-2021

Issued to	M/s. CHEMINOVA INDIA LTD. (INTERMEDIATE DIV.)
Address	PLOT NO.27,28/A GIDC ESTATE:PANOLI, TA: ANKLESHWAR,DIST: BHARUCH-394116

SR.NO.	DESCRIPTION	AMBIENT AIR QUALITY MONITORING
	Particulars of Sample	Station 1
1	Sample ID	20069-AQ-01
2	No. of samples	1
3	Date and time of start of sampling	30-09-2021 & 11:55 h
4	Date and time of completion of sampling	01-10-2021 & 11:55 h
5	Duration of Sampling in hrs.	24
6	Approx. ht. of sampling point in m	~ 3
7	Sampled by	Mr.Dilip
8	Date of Analysis	02-10-2021

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01 (Issue No. : 01 Issue Date : 01-08-2018 Revision No. : 00)

	Details of Sampling Station	
1	Location	Nr. Main Gate area
2	Distance from plant site, Km	Inside Factory Premises
3	Predominant wind direction	SW-NE
4	Average wind speed, Kmph	8.9

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE-2)	RESULTS
1.	PM10	µg/m3	IS 5182(Part 23):2006,RA2017	100	49
2.	PM2.5	µg/m3	SC/LAB/STP/AAQM-02	60	18
3.	SOx	µg/m3	IS 5182(Part 2):2001,RA2017	80	10
4.	NOx	µg/m3	IS 5182(Part 6):2006,RA2017	80	19

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 :- µg = Microgram

Verified by: Mrs. Fatema M. Jadliwala (Technical Manager)

Authorized Signatory: Mrs. Kuntal P. Shah(Quality Manager)/Mr.Purvesh M.Shah (CEO & MD)

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

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

Format No. : SC/LAB/F/Report-05 Issue No. : 02 Issue Date : 31-01-2019 Revision No. : 02 Revision Date : 30-06-2020

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

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

: Dahej Off. : "SANSKAR AVENUE" Shop No. GF 37, P. O. Jolva, Ta. Vagra, Dist. Bharuch. Tele : 02641 - 254041 E-mail : siddhi.ank@gmail.com

Siddhi Green Excellence PRIVATE LIMITED

TC-5007

TEST REPORT

REPORT NO. : SC/CILID/AAQM/SEP/STATION-2/2021/53 Date of Issue : 04-10-2021

Issued to	M/s. CHEMINOVA INDIA LTD. (INTERMEDIATE DIV.)
Address	PLOT NO.27,28/A GIDC ESTATE:PANOLI, TA: ANKLESHWAR,DIST: BHARUCH-394116

SR.NO.	DESCRIPTION	AMBIENT AIR QUALITY MONITORING
	Particulars of Sample	Station 2
1	Sample ID	20069-AQ-02
2	No. of samples	1
3	Date and time of start of sampling	30-09-2021 & 12:00 h
4	Date and time of completion of sampling	01-10-2021 & 12:00 h
5	Duration of Sampling in hrs.	24
6	Approx. ht. of sampling point in m	~ 3
7	Sampled by	Mr.Dilip
8	Date of Analysis	02-10-2021

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01 (Issue No. : 01 Issue Date : 01-08-2018 Revision No. : 00)

	Details of Sampling Station	
1	Location	Nr. SBS Plant Area
2	Distance from plant site, Km	Inside Factory Premises
3	Predominant wind direction	SW-NE
4	Average wind speed, Kmph	8.9

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE-2)	RESULTS
1.	PM10	µg/m3	IS 5182(Part 23):2006,RA2017	100	47
2.	PM2.5	µg/m3	SC/LAB/STP/AAQM-02	60	13
3.	SOx	µg/m3	IS 5182(Part 2):2001,RA2017	80	8
4.	NOx	µg/m3	IS 5182(Part 6):2006,RA2017	80	19

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 :- µg = Microgram

Verified by: Mrs. Fatema M. Jadliwala (Technical Manager)

Authorized Signatory: Mrs. Kuntal P. Shah(Quality Manager)/Mr.Purvesh M.Shah (CEO & MD)

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

Format No. : SC/LAB/F/Report-05 Issue No. : 02 Issue Date : 31-01-2019 Revision No. : 02 Revision Date : 30-06-2020

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

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

: Dahej Off. : "SANSKAR AVENUE" Shop No. GF 37, P. O. Jolva, Ta. Vagra, Dist. Bharuch. Tele : 02641 - 254041 E-mail : siddhi.ank@gmail.com

Sr. No.	Conditions	Compliance Status
	(iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R.No. 826(E) Dated 16th November,2009 shall be followed.	Unit 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-Monthly Reports by Third-Party recognized lab is attached for reference

Siddhi Green Excellence PRIVATE LIMITED

TO-5007

TEST REPORT OF AMBIENT NOISE MEASUREMENT

REPORT NO. : SC/CLID/NL/OCT/2021/04 — Date of Issue : 30-10-2021

Issued to	M/s. CHEMINOVA INDIA LTD. (INTERMEDIATE DIV.)		
Address	PLOT NO.27,28/A GIDC ESTATE,PANOLI, TA: ANKLESHWAR,DIST. BHARUCH-394116		
Site (where measured)	same as above	Sample ID	20371
Date of Monitoring	25-10-2021	Measured By	Mr. Sunil
Instrument used	HTC make Noise Level Meter (Model No. SL-1352)	Instrument ID	SC-NM-3
Frequency Weighing	A	Time Weighing	FAST
Procedure : As per Work Instruction of instrument and as per IS 9989:1981, windcover used during measurement			
Environmental Conditions:		Season	Post Monsoon

DAYTIME READINGS (6 AM TO 10 PM)			NIGHT TIME READINGS (10 PM TO 6 AM)		
Time and Duration of Monitoring	10:50 to 12:50 h		Time and Duration of Monitoring	22:00 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
30	2.8	SW- NE	25	2.8	SW- NE
SR.NO.	LOCATION	READING NO.	NOISE LEVEL dB(A) DAY TIME	READING NO.	NOISE LEVEL dB(A) NIGHT TIME
1	Near Main Gate	NL-01	60	NL-11	53
2	Near ETP Area	NL-02	65	NL-12	61
3	Near SBG Plant	NL-03	72	NL-13	65
4	Near Boiler	NL-04	68	NL-14	63
5	Near Admin area	NL-05	56	NL-15	52
6	Near DG set	NL-06	64	NL-16	53
7	Near Chlorine yard	NL-07	65	NL-17	62
8	Near P0 Plant	NL-08	63	NL-18	60
9	Near P1 Plant	NL-09	65	NL-19	62
10	Near P2 Plant	NL-10	67	NL-20	63

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 — COPY 2 OF 2

Abbreviations used :- None

Verified by — Authorized Signatory

Mrs. Fatema M. Jadliwala(Technical Manager) — Mrs. Kuntal P. Shah (Quality Manager) / Mr. Purvesh M. Shah (CEO & MD)

Notes : 1. Test results shall be referred to the tested sample(s) only and applicable parameter(s) only.
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*** End of Report ***

Page 1 of 1

Format No. : SC/LAB/F/Report-06 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 04 Revision Date : 25.01.2021

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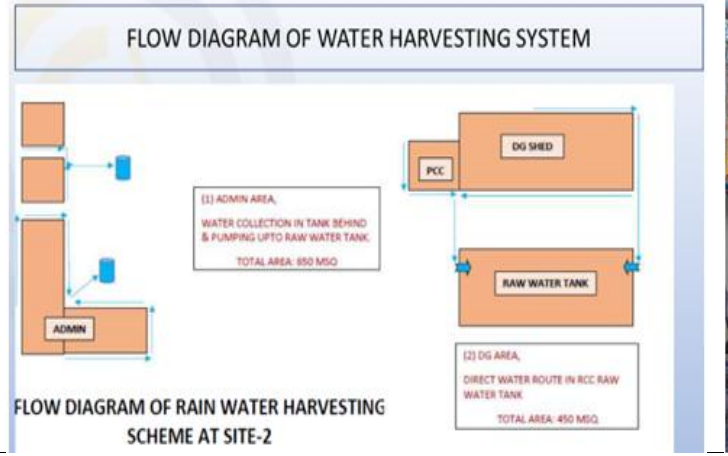
GUJARAT'S 1ST PLATINUM CERTIFIED NEW GREEN INTERIORS BY IGBC

: Regd. Office : "Kamal Arcade - The Vertical Sunrock" Comm. Plot No. C-3/3, GIDC Station Road, Ankleshwar - 393 002, Dist. Bharuch, Gujarat State, (India). Tele : 02643 - 224805.

: Dahej Off. : "SANSKAR AVENUE" Shop No. GF 37, P.O. Jolva Ta. Vagra, Dist. Bharuch. Tele : 02641 - 254741 E-mail : siddhi.ank@gmail.com

Sr. No.	Conditions	Compliance Status
	(vi) The company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	The rain water harvesting work as a roof rain water harvest program inside premises is under process and @ 1100 sq. m. roof of office building and DG-PCC building is selected for this project. More than 900 KL water can be gained from rain fall every year which will reduce our demand of the raw water from the GIDC and also will save our valuable water resource. Copy of the flow diagram of water harvesting system is attached. Unit is in talks with GIDC regarding off-site rainwater harvesting and planning for the same.
		Rain water Harvesting Details Intermediate Division Month — Rainwater (KL) Jun-21 — 91 Jul-21 — 82 Aug-21 — 140 Sep-21 — 123 Oct-21 — 35 Nov-21 — 0 471
	(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.	Unit shall follow the given condition.
	(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 follow the given condition.
	(x) The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Unit shall follow the given condition.
	(xi) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions	Unit commits that funds earmarked for environment

Sr. No.	Conditions	Compliance Status
	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.	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.	Complied.
	(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 reports 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 Pesticidies and Pesticide Specific Intermediates manufacturing unit of **M/s.Cheminova India Limited (Intermediate Division)** at Plot no. (27+28)/A Notified GIDC Industrial Estate, Panoli-394 116, Ta: Ankleshwar, Dist.Bharuch, State: Gujarat,Vide letter **dated 31/12/2019** [F.NO **IA-J-11011/53/2018-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 09/01/2020 **Authorized Signatory–SD-**

જાહેર સૂચના **પર્યાવરણીય મંજૂરી**

આ સાથે જણાવવામાં આવે છે કે મિનિસ્ટ્રી ઓફ એન્વાયરમેન્ટ, ફોરેસ્ટ અને ક્લાઈમેન્ટ ચેન્જ દ્વારા મે. ચેમિનોવા ઈન્ડિયા લિમિટેડ (ઈન્ટરમીડિયેટ ડિવિઝન) પ્લોટ નંબર (૨૭+૨૮)/A, નોટીફાઈડ જી.આઈ.ડી.સી. ઈન્ડસ્ટ્રીયલ એસ્ટેટ, પાનોલી-૩૯૪ ૧૧૬, તાલુકાઃ અંકલેશ્વર, ડિસ્ટ્રિક્ટ. ભરૂચ, સ્ટેટઃગુજરાત ખાતેના હાલના એકમ પર સૂચિત પેસ્ટીસાઈડ્સ તથા તેના પેસ્ટીસાઈડ સ્પેસિફિક ઈન્ટરમીડિયેટ્સ ના વિસ્તરણ માટેની પર્યાવરણીય મંજૂરી ડિસેમ્બર, ૩૧, ૨૦૧૯ ના પત્ર દ્વારા [ફાઈલ ક્રમાંક IA-J-11011/53/2018-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 ૦૮/૦૧/૨૦૨૦ સહીઃ--

Sr. No.	Conditions	Compliance Status
	(xvi) The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Noted.
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.	Noted and agreed.
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.	Noted.
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.	Noted.
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.	Noted.
16.	This issue with approval of the competent authority.	Noted.

Annexure 2 -Compliance report of CC&A/CTO and its Amendment

CCA No: AWH-86147, Date of issue-23rd-May-2017 and valid up to 4th-March-2022, CCA amendment dated 09/08/2017 having CTO no.: GPCB/ANK/CCA-115/ID-15016/419703, CCA amendment no.: AWH-94667 dated 31/08/2018, CCA amendmentorder no.: AWH-104863 issued vide letter no. GPCB/ANK/CCA-115(13) ID-15016/529725, dated 10/12/2019

Sr. No.	Consent Condition Requirement	Compliance Status
1.	The list of proposed products to be manufactured shall be as follows.	Unit is complying with the given condition. Monthly production details are as mentioned below:

Sr. No.	Name of Product	Quantity (MT/Year)			
		Existing	Proposed	Total (After Change in Product Mix)	Remarks
1.	Phosphorus Trichloride (PCl_3)/ Phosphoryl chloride ($POCl_3$)	1000	--	1000	No Change
2.	Tri methyl Phosphite (TMP) or Tri ethyl Phosphite (TEP)	100	--	100	No Change
3.	Diethyl Thio Phosphoryl Chloride (DETPC) /Sodium salt of Diethyl Thio Phosphoryl Chloride (Na-DETA)	5330	--	5330	No Change
4.	Cyhalothrin Acid	250	--	250	No Change
5.	Phosphorus Penta Sulphide (P_2S_5)	3400	--	3400	No Change
6.	Fluindapyr (F9990)	--	+150	150	New Product
7.	Bixlozone (F9600)	--	+960	960	New Product
8.	Acid based products[2-brornobutyric Acid (int), amino acid (int), ethyl 2-(4-hydroxy phenoxy) propionate (O-HPPA) (int),Thiocyclam(I),Bispyribac-Sodium (H),Pyrithiobac-Sodium(H), Methoxy Amine Hydrochloride (int),2-hydroxyphenyl Acetic Acid (HPAA) (int),] etc.	150	--	150	No Change
9.	Amide group based products [Pretilachlor (H),Captan(F), Cymoxanil (F),Beflubutamide(H),Pethoxamide(H), Carboxin (F),Flubendamide(I), Chlorantraniliprole (I), Thiaflusamide(F), Zoxamide (F), Flufenacet (H), 2 Aminosulfonyl-N-N- Dimethylnicotinamide (SNA) (int), 2-(Methoxycarbonyl) thiophene thiophene-3 Sulfonamide (MST) (Int)] etc.	150	--	150	No Change
10.	Aniline group Bases products [Pendirnethalin(H), Fluazinam (F),Metalaxyl(F), Famoxadone (F)] etc.	1200	-1200	--	Discontinue Product
11.	Azine group based product Fenpyroximate(I), Metribuzin (H),Pymetrozine(I), Arnitraz(I), Indoxacarb (I),Clofentezine(I), 2 Methoxy-4 - Methyl-6-Methylamino-1,3,5-Triazine (MMMT) (Int)] etc.	300	--	300	No Change
12.	Azole group based products [Fipronil (I), Hexaconazole (F), Propiconazole (F), Difenoconazole (F),Tricydazole(F), Myclobutanil (F),	200	--	200	No Change

Production Details	
Month	Quantity (MTM)
June 2021	571.753
July 2021	545.600
August 2021	585.700
September 2021	522.650
October 2021	585.920
November 2021	576.900

CCA No: AWH-86147, Date of issue-23rd-May-2017 and valid up to 4th-March-2022, CCA amendment dated 09/08/2017 having CTO no.: GPCB/ANK/CCA-115/ID-15016/419703, CCA amendment no.: AWH-94667 dated 31/08/2018, CCA amendmentorder no.: AWH-104863 issued vide letter no. GPCB/ANK/CCA-115(13) ID-15016/529725, dated 10/12/2019

Sr. No.	Consent Condition Requirement						Compliance Status
		Florasulam (H), Tebuconazole (F), Flusilazole (F),Tridemefon, Paclobutrazol (F), Thiamethoxam (I), Flutriafol (F),SafenerIsoxadifen ethyl (Int),Irnidacloprid(I), 2, 6 DiChloroBenzoxazolone(Int),Penoxasulam(H)] etc.					
	13.	Carbamate group based product [Thiodicarb(I), Propineb (F), Metiram (F), Thiram (F),Cartap hydrochloride (I), Thiophanate Methyl (F)] etc.	500	--	500	No Change	
	14.	Ester group based products [Fenoxaprop-p-Et (H),Clodinafop-Pr(H),Quizolfop-p-ethyl (H),Quinzolfop-p-terfuryl(H),Cyhalofop(H), Isoprothiolane (F),Alphamethrin(I), Lambda Cyhaothrin(I), Cypermethrin (I),Bifenazate(I), Phthalide (Int) etc.	300	--	300	No Change	
	15.	Ether group based products [Propargite(I), oxyfiuorfen(H), S- Cyano MPB (Int), 2 Ethoxy Ethyl Amine (Int),] etc.	200	--	200	No Change	
	16.	Ketone group based product [Mesotrione(H),Suctioned(H),Isoxanutole(H),Dimethomorph(F),Isobutyro phenone(IBP)(Int)] etc.	1200	--	1200	No Change	
	17.	Phosphate group based product [Chlorpyrifos (I) or its intermidiate Na-TCP (Int), Acephate (I),Monocrotophos(I) or its intermediates MCMMAA(Int.),Dimethoate (I),Profenofos(I),Ethephon (PGR)] etc.	5000	--	5000	No Change	
	18.	Pyridine group based product [Pyridalyl(I),Imazethapyr(H)CloquintocctMexyl(H), Acetamiprid (I), 4, 6-DiChloro Pyridine (Int)], Azoxvstrobin(F) etc	250	--	250	No Change	
	19.	Urea group based product[Buprofezin(I), Lufenuron(I), Linuron(H),Diafenthiuron(I), Diuron(H), Novaluron(I), Chlorimuron(int),Hexythiazox(I),Spiromesifen(I),Azimsulfuron(H),Sulfonyl Ureas(H)] etc.	100	--	100	No Change	
	20.	Phenol group based product[2- Cyanophenol (Int), 4- Fluro-3 trilluromethylphenole (Int)] etc.	75	--	75	No Change	
		Total	19705	-90	19615		
2	SPECIFIC CONDITIONS						
a.	Total production shall not exceed 19615 MT/Year in any case.						Complied
b.	There shall be no change in mode of disposal of wastewater.						Complied
c.	There shall be no change in fuel consumption, flue gas emission and process gas emission.						Complied

CCA No: AWH-86147, Date of issue-23rd-May-2017 and valid up to 4th-March-2022, CCA amendment dated 09/08/2017 having CTO no.: GPCB/ANK/CCA-115/ID-15016/419703, CCA amendment no.: AWH-94667 dated 31/08/2018, CCA amendmentorder no.: AWH-104863 issued vide letter no. GPCB/ANK/CCA-115(13) ID-15016/529725, dated 10/12/2019		
Sr. No.	Consent Condition Requirement	Compliance Status
d.	There shall be no change in Hazardous waste quantity/category.	Complied
e.	Unit shall sell out their hazardous waste to authorized end-users that is having authorization with valid CCA and Rule 9 permission to receive this waste. Unit shall make MoU with such authorized end-users and submit MoU at time of application of CCA.	The hazardous waste is sold to authorized end-users having valid CCA and rule-9 permission. MoU has been prepared to sell of hazardous waste.
f.	All the efforts shall be made to send hazardous waste to cement industry for Co-processing first & there after it shall be disposed through other option.	Complied
g.	Unit shall follow spent solvent management guideline framed by board and shall make MoU with outside distillation units, if any. Also submit the prescribed forms as per guideline.	Spent solvent management guidelines are followed.
h.	There shall not be increase in pollution load due to proposed change in product mix.	Complied.
i.	There shall not be any change in plant building, equipments & machineries to manufacture the proposed new products after change in product mix.	No changes in plant building, equipment's & machineries done for manufacturing the proposed new products after change in product mix.
j.	In the case of submission of the false or misleading data, this CTE amendment will be forwarded immediately.	Noted.
k.	CCA is granted with a condition to comply guideline to be issued by Ministry of Environment, Forest and Climate Change in the matter of O.A.No. 1038/2018 and Hon. NGT order dated: 10/07/2019 and 23/08/2019.	Noted
l.	Mother Liquor 35 KLD shall be incinerated in common incinerator facility at BEIL or SEPPL or GSPL, Palsana OR send it for co-processing to cement industries.	Complied
m.	There shall be no change in water consumption, wastewater generation and their mode of disposal.	Noted.
n.	As per the submission, calcium chloride (30%): 1000 MT/Year, Ammonium Chloride Sol (16%): 15,300 MT/Year, Liq. Ammonia (20%): 3600 MT/Year is not produced since 2015 due to not manufacture TMP so whoever unit will manufacture TMP, unit shall obtain CCA Amendment for the same with all required document like MoU with enduser & Rule-9 permission of enduser.	Noted.
3	CONDITION UNDER THE WATER ACT:	
3.1	The condition No. 3.3 for water consumption under Water Act of the CCA order No. AWH-86147, issued vide letter no. GPCB/ANK/CCA-115(9)/ID-15016/415086, dated 16/06/2017 and further amended dated 31/08/2018 is amended and shall now be read as under. a) Domestic : 25 KL/Day (Existing 25 KLD + Proposed Nil) b) Industrial : 423 KL/Day(Existing 429 KLD - Proposed 6 KLD) c) Gardening : 25 KL/Day(Existing 25 KLD - Proposed Nil) d) Total: 473 KL/Day (Existing 479 KLD - Proposed 6 KLD)	Complied. Water consumption is well within limits as per the condition. Water consumption details for period December 2020 to May 2021 is given below: Details of Water Consumption Month / KL/Month June 2021 / 10434 July 2021 / 12216 August 2021 / 8866 September 2021 / 10766

CCA No: AWH-86147, Date of issue-23rd-May-2017 and valid up to 4th-March-2022, CCA amendment dated 09/08/2017 having CTO no.: GPCB/ANK/CCA-115/ID-15016/419703, CCA amendment no.: AWH-94667 dated 31/08/2018, CCA amendmentorder no.: AWH-104863 issued vide letter no. GPCB/ANK/CCA-115(13) ID-15016/529725, dated 10/12/2019

<table>
<tr><th>Sr. No.</th><th>Consent Condition Requirement</th><th>Compliance Status</th></tr>
<tr><td></td><td></td><td><table><tr><td>October 2021</td><td>14066</td></tr><tr><td>November 2021</td><td>11235</td></tr></table></td></tr>
<tr><td>3.2</td><td>The condition No. 3.1 & 3.2 for wastewater Generation under Water Act of the CCA order No. AWH-86147, issued vide letter no. GPCB/ANK/CCA-115(9)/ID-15016/415086, and further amended dated 31/08/2018 is amended and shall now be read as under.
a) Domestic : 25 KL/Day (Existing 25 KLD + Proposed Nil)
b) Industrial : 176 KL/Day (Existing 181 KLD - Proposed 5 KLD)
c) Total: 201 KL/Day (Existing 206 KLD - Proposed 5 KLD)</td><td>Complied.<table><tr><th colspan="2">Details of Wastewater Generation</th></tr><tr><th>Month</th><th>(KL/Month)</th></tr><tr><td>December 2020</td><td>5115</td></tr><tr><td>January 2021</td><td>4853</td></tr><tr><td>February 2021</td><td>4077</td></tr><tr><td>March 2021</td><td>4551</td></tr><tr><td>April 2021</td><td>1551</td></tr><tr><td>May 2021</td><td>0</td></tr></table></td></tr>
<tr><td>3.3</td><td>176 KLD treated effluent shall be discharged to NCTL by underground drainage line and 25 KLD domestic sewage shall be disposed off through septic tank/soak pit system as per previous CCA conditions.</td><td>Complied. Up to10th October 2021 treated effluent was discharged into underground conveyance pipeline connected to FETP of M/s. Narmada Clean Tech (NCT). On 13th October application was submitted to NCT to discontinue Effluent Disposal. On 30th October 2021, NCT Representative disconnected the flow meter, and removed the Data Recorder and sealed the Effluent Discharge line.</td></tr>
<tr><td>3.4</td><td>Sewage shall be disposed off through septic tank/soak pit system or shall be treated separately in Sewage Treatment Plant (STP) to conform the following standards and treated sewage shall be utilized on land for irrigation / plantation.<table><tr><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>Less than 20 mg/L</td></tr><tr><td>2</td><td>Total Suspended Solids</td><td>Less than 30 mg/L</td></tr><tr><td>3</td><td>Total Residual Chlorine</td><td>Minimum 0.5 ppm</td></tr></table>Or Sewage shall be treated in ETP along with Industrial Effluent and discharged into GIDC underground drainage system and conveyed to FETP (NCTL).</td><td>Complied.</td></tr>
<tr><td>3.5</td><td>The quality of industrial effluent shall conform to the following standards (as per GPCB norms, whichever is applicable.<table><tr><th>Sr no.</th><th>PARAMETERS</th><th>PERMISSIBLE LIMIT</th></tr><tr><td>1</td><td>pH</td><td>6.5 to 8.5</td></tr><tr><td>2</td><td>Temperature</td><td>40°C</td></tr></table></td><td>Complied. Photographs of waste water analysis reports for effluent and sewage of April 2021 is attached below:</td></tr>
</table>

CCA No: AWH-86147, Date of issue-23rd-May-2017 and valid up to 4th-March-2022, CCA amendment dated 09/08/2017 having CTO no.: GPCB/ANK/CCA-115/ID-15016/419703, CCA amendment no.: AWH-94667 dated 31/08/2018, CCA amendmentorder no.: AWH-104863 issued vide letter no. GPCB/ANK/CCA-115(13) ID-15016/529725, dated 10/12/2019				
Sr. No.	Consent Condition Requirement			Compliance Status
	3	Colour (pt.co.scale)	100 units	
	4	Total Suspended solids (TSS)	150 mg/l	
	5	Total Dissolved Solids	10000 mg/l	
	6	Biochemical Oxygen Demand, BOD_3, 27°C	200 mg/l	
	7	Chemical Oxygen Demand (COD)	1000 mg/l	
	8	Oil and Grease	10 mg/l	
	9	Phenolic compounds (as C_6H_5OH)	5 mg/l	
	10	Sulphide (as S)	5 mg/l	
	11	Ammonical Nitrogen (As N)	50 mg/l	
	12	Total Kjeldahl Nitrogen (as N)	50 mg/l	
	13	Phosphate (as P)	5 mg/l	
	14	Chlorides (as Cl)	1000 mg/l	
	15	Sulphates (as SO_4)	1000 mg/l	
	16	Cyanide (as CN)	0.2 mg/l	
	17	Flouride (as F)	15 mg/l	
	18	Hexavalent Chromium (as Cr +6)	0.1 mg/l	
	19	Total Chromium (as Cr)	2 mg/l	
	20	Copper (as Cu)	3 mg/l	
	21	Nickel (as Ni)	3 mg/l	
	22	Zinc (as Zn)	15 mg/l	
	23	Iron (as Fe)	3 mg/l	
	24	Manganese (as Mn)	2 mg/l	
	25	Mercury (as Hg)	0.01 mg/l	
	26	Lead (as Pb)	0.1 mg/l	
	27	Arsenic (as As)	0.2 mg/l	
	28	Venedium (as V)	0.2 mg/l	
	29	Cadmium (as Cd)	0.05 mg/l	
	30	Selenium (as Se)	0.05 mg/l	
	31	Bio-assay test	90 % survival of fish after 96 hrs in 100 % effluent	
	32	Insecticides/Pesticides	Absent	

CCA No: AWH-86147, Date of issue-23rd-May-2017 and valid up to 4th-March-2022, CCA amendment dated 09/08/2017 having CTO no.: GPCB/ANK/CCA-115/ID-15016/419703, CCA amendment no.: AWH-94667 dated 31/08/2018, CCA amendmentorder no.: AWH-104863 issued vide letter no. GPCB/ANK/CCA-115(13) ID-15016/529725, dated 10/12/2019

Sr. No.	Consent Condition Requirement	Compliance Status

Siddhi Green Excellence PRIVATE LIMITED

TEST REPORT

REPORT NO. :SC/CILID/WW/APR/2021/06 — Date of Issue :13-04-2021

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

Address: PLOT NO.27,28A, GIDC ESTATE:PANOLI, TA: ANKLESHWAR, DIST: BHARUCH-394116

Sample details	Sample 1	Total No. of sample received	2
Type of sample	Treated Effluent	Date of Sampling	06-04-2021
Sample ID	18208-WW-01, M-3902WW-01**	Date of Receipt	06-04-2021
Sample Qty. & Packing	2 L & Sealed, 20 L & Sealed**	Date of Analysis start	07-04-2021
Sampled by	Mr. Dilip	Date of Completion	12-04-2021
Sampling Location	ETP Outlet		

Sampling Plan & Sampling Method Used : Lab document SC/LAB/01 (Issue No. : 01 Issue Date : 01-08-2018 Revision No.00)

SR.NO.	PARAMETERS	UNIT	TEST METHOD	PERMISSIBLE LIMITS(NOTE-2)	RESULTS Sample 1
1.	pH	-	IS 3025(Part11):1983,RA2017	6.5 - 8.5	7.03@ 26.0 °C
2.	Temperature	°C	APHA 23rd ed.2550 B	40	26
3.	Colour	pt/co.	APHA 23rd ed. 2120B	100	30
4.	Total Suspended Solids	mg/L	APHA 23rd ed. 2540 D	150	20
5.	Oil and Grease	mg/L	IS 3025(Part 39):1991,clause 5 RA 2014	10	BDL
6.	Fluorides	mg/L	APHA 23rd ed.4500F D	15	BDL
7.	Sulphides	mg/L	APHA 23rd ed.4500E F	5	2
8.	Ammonical Nitrogen	mg/L	APHA 23rd ed. 4500 NH3 C	50	BDL
9.	Total Kjeldahl Nitrogen	mg/L	APHA 23rd ed. 4500-N org B	50	8
10.	Sulphate	mg/L	APHA 23rd ed. 4500 E	1000	912
11.	Phosphate	mg/L	APHA 23rd ed. 4500 -P-C	5	3.5
12.	Chloride	mg/L	APHA 23rd ed. 4500 B	1000	746
13.	Total Dissolved Solids	mg/L	APHA 23rd ed. 2540 C	10000	6961
14.	Copper	mg/L	APHA 23rd ed. 3111 B	3	BDL
15.	Zinc	mg/L	APHA 23rd ed. 3111 B	15	BDL
16.	BOD (3 days at 27 °C)	mg/L	IS 3025(Part 44) 1993, RA2019	200	27
17.	COD	mg/L	IS 3025(Part 58):2006, RA2017	1000	100
18.	Arsenic (as As)	mg/L	APHA 23rd ed.3114 B	0.2	BDL
19.	Mercury (as Hg)	mg/L	APHA 23rd ed. 3112	0.01	BDL
20.	Lead (as Pb)	mg/L	APHA 23rd ed. 3111 B	0.1	BDL
21.	Cadmium	mg/L	APHA 23rd ed. 3111 B	0.05	BDL
22.	Hexavalent Chromium	mg/L	APHA 23rd ed. 3500Cr- B	0.1	BDL
23.	Total Chromium (as Cr)	mg/L	APHA 23rd ed. 3111 B	2	BDL
24.	Iron	mg/L	IS 3025 (Part 53):2003,RA2014	3	BDL
25.	Manganese	mg/L	APHA 23rd ed. 3111 B	2	BDL
26.	Nickel	mg/L	APHA 23rd ed. 3111 B	3	BDL
27.	Phenolic Compounds	mg/L	APHA 23rd ed. 5530 D	5	BDL

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

Results from external providers, if any :- None

Any other remarks :-** Sampling for microbiological Analysis

Abbreviations used :- BDL - Below Detection Limit

COPY 1 OF 2

Verified by: Mrs. Fatema M. Jadiwala (Technical Manager)

Authorized Signatory: Mrs. Kuntal P. Shah (Quality Manager) / Mr.Purvesh M. Shah (CEO & MD)

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.

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

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

: Dahej Off. : "SANSKAR AVENUE" Shop No. GF 37, P. O. Jolva, Ta. Vagra, Dist. Bharuch. Tele : 02641 - 254041 E-mail : siddhi.ank@gmail.com

Siddhi Green Excellence PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/CILID/WW/APR/2021/05 — Date of Issue : 13-04-2021

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

Address: PLOT NO.27,28A, GIDC ESTATE:PANOLI, TA: ANKLESHWAR, DIST: BHARUCH-394116

Sample details	Sample 2	Total No. of sample received	2
Type of sample	STP Water Sample	Date of Sampling	06-04-2021
Sample ID	18208-WW-01	Date of Receipt	07-04-2021
Sample Qty. & Packing	1 L & Sealed	Date of Analysis start	07-04-2021
Sampled by	Mr.Dilip	Date of Completion	12-04-2021

Sampling Plan & Sampling Method Used : Lab document SC/LAB/01 (Issue No. : 01 Issue Date : 01-08-2018 Revision No. : 00)

SR.NO.	PARAMETERS	UNIT	TEST METHOD	PERMISSIBLTE LIMIT (NOTE 2)	RESULTS Sample 2
1.	BOD (3 days at 27°C)	mg/L	IS 3025(Part44) 1993, RA2019	less than 20	5
2.	Suspended Solid	mg/L	APHA 23rd ed.2540 D	less than 30	24

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: Mrs. Fatema M. Jadiwala (Technical Manager)

Authorized Signatory: Mrs. Kuntal P.Shah(Quality Manager)/Mr.Purvesh M.Shah(CEO&MD)

Notes : 1. Test results shall be referred to the tested sample(s) only and applicable parameter(s) only.
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Siddhi Green Excellence PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/CILID/WW/FEB/2021/05 — Date of Issue : 19-02-2021

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

Address: PLOT NO.27,28A, GIDC ESTATE:PANOLI, TA: ANKLESHWAR, DIST: BHARUCH-394116

Sample details	Sample 2	Total No. of sample received	3
Type of sample	STP Water Sample	Date of Sampling	13-02-2021
Sample ID	17609-WW-01	Date of Receipt	13-02-2021
Sample Qty. & Packing	1 L & Sealed	Date of Analysis start	15-02-2021
Sampled by	Mr.Rafik	Date of Completion	18-02-2021

Sampling Plan & Sampling Method Used : Lab document SC/LAB/01 (Issue No. : 01 Issue Date : 01-08-2018 Revision No. : 00)

SR.NO.	PARAMETERS	UNIT	TEST METHOD	PERMISSIBLTE LIMIT (NOTE 2)	Sample 2
1.	Residual Chlorine	mg/L	APHA 23rd ed. 4500-CL- B	minimum 0.5	0.9

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

Results from external providers, if any :-None

Copy 2 of 2

Any other remarks :-None

Abbreviations used :- None

Verified by: Mrs. Fatema M. Jadiwala (Technical Manager)

Authorized Signatory: Mrs Kuntal P.Shah(Quality Manager)/Mr.Purvesh M.Shah(CEO&MD)

Notes : 1. Test results shall be referred to the tested sample(s) only and applicable parameter(s) only.
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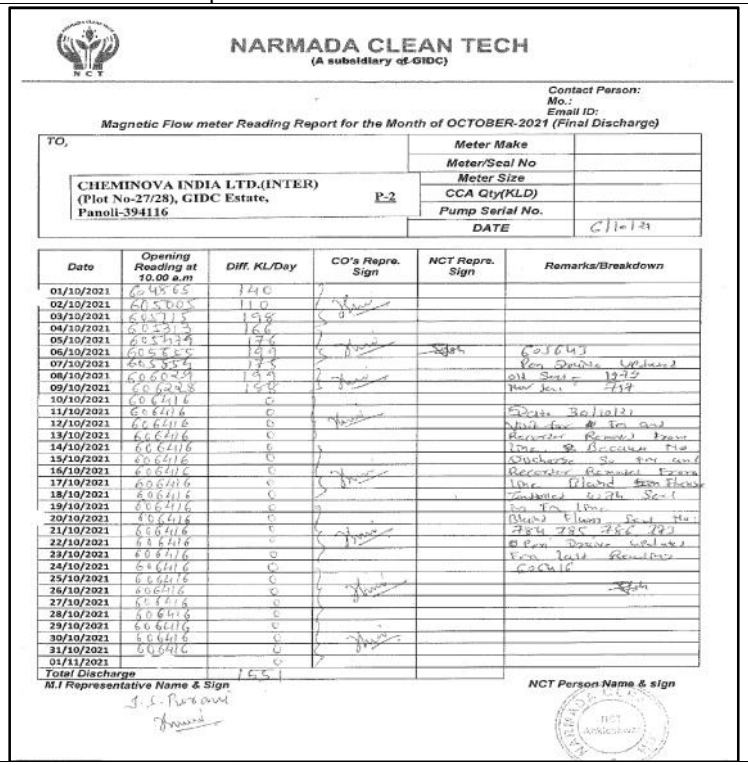
3.6	Unit shall only use treated effluent for preparation of lime and other slurry in ETP. No fresh water shall be utilized in ETP.	Treated effluent is used for preparation of lime solution in ETP.
3.7	In the case, if the Industry is not a member of CETP and domestic waste water generation is more than 10 KLPD, industry shall	Not applicable as the Industry is a member of

CCA No: AWH-86147, Date of issue-23rd-May-2017 and valid up to 4th-March-2022, CCA amendment dated 09/08/2017 having CTO no.: GPCB/ANK/CCA-115/ID-15016/419703, CCA amendment no.: AWH-94667 dated 31/08/2018, CCA amendmentorder no.: AWH-104863 issued vide letter no. GPCB/ANK/CCA-115(13) ID-15016/529725, dated 10/12/2019		
Sr. No.	Consent Condition Requirement	Compliance Status
	install. STP of adequate capacity and treated sewage shall be reused/ recycled to the maximum extent.	CETP.
3.8	In case of Large and Medium Red Category industry, the unit shall install system for continuous monitoring of effluent quality/ quantity as per CPCB guidelines for relevant parameters (like pH, Flow, Temperature, TOC/COD, NH3-N etc.) and shall be connected to GPCB server. In case, if the industry is a member of CETP, unit shall install flow meter.	Continuous monitoring of effluent quality and quantity is done as per the CPCB guidelines for relevant parameters.
3.9	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 as a roof rain water harvest program inside premises is under process and @ 1100 sq. m. roof of office building and DG-PCC building is selected for this project.
3.10	The unit shall explore Techno-Economic feasibility of Zero Liquid Discharge (ZLD) and if feasible, ZLD should be adopted.	Noted
3.11	The effluent conforming to the above standards shall be discharged into G.I.D.C. underground drainage system and conveyed to FETP (NCTL) which ultimately leads to deep sea for final disposal through pipeline.	Complied. Unit is following the given condition.
3.12	Unit shall be required to make storage facilities to store the effluent for at least 72 hours by providing acid proof brick lined impervious tanks / HDPE tanks	Storage capacity of more than 72 hours is available. The material of construction of storage tanks is based on the characteristic of the effluent (HDPE/FRP/Acid brick lining/RCC/metallic).
3.13	In case of shut – down of plant for more than three (3) days for any reason, the NCTL unit member shall intimate to NCTL authority & GPCB well in advance for the better operation & management of CETP.	Noted and agreed.
3.14	Unit shall make fixed arrangement for discharge of the effluent from their Final collection tanks to the underground drainage network of NCTL. Unit shall not keep any by-pass line or system or loose or flexible pipe line for discharge of the effluent into underground drainage network of NCTL.	Complied
3.15	Magnetic flow meters shall be installed at the inlet & outlet of effluent collection tanks / ETP to measure the quantity of effluent discharged into the underground drainage network of NCTL.	Complied. Unit has installed magnetic flow meter as per the given condition. Photographs of the flow meter attached below:
3.16	Unit shall affix of water meters as per Section 4 (1) of the water (Prevention and Control of Pollution) Cess Act-1977 for the purpose of measuring and recording the quantity of water consumed at such places as may be required, within 15 days and it shall be presumed that the quantity indicated by the meter has been consumed by the unit until the contrary is proved.	Complied. Photographs attached below:

CCA No: AWH-86147, Date of issue-23rd-May-2017 and valid up to 4th-March-2022, CCA amendment dated 09/08/2017 having CTO no.: GPCB/ANK/CCA-115/ID-15016/419703, CCA amendment no.: AWH-94667 dated 31/08/2018, CCA amendmentorder no.: AWH-104863 issued vide letter no. GPCB/ANK/CCA-115(13) ID-15016/529725, dated 10/12/2019		
Sr. No.	Consent Condition Requirement	Compliance Status
3.17	Unit shall provide adequate / safe effluent sampling facility for the effluent being stored in final collection / discharge tank of ETP or being discharged into CETP.	Complied. Unit is following the given condition.
3.18	Unit shall put up at the entrance a board displaying the name of unit, particulars of the products / process, the name of proprietor / partners / directors of the unit, NCTL membership number & date of joining of NCTL, the electricity consumer number as on the record of DGVCL.	Unit is following the given condition. Photograph of the display board is attached below:

CCA No: AWH-86147, Date of issue-23rd-May-2017 and valid up to 4th-March-2022, CCA amendment dated 09/08/2017 having CTO no.: GPCB/ANK/CCA-115/ID-15016/419703, CCA amendment no.: AWH-94667 dated 31/08/2018, CCA amendmentorder no.: AWH-104863 issued vide letter no. GPCB/ANK/CCA-115(13) ID-15016/529725, dated 10/12/2019

Sr. No.	Consent Condition Requirement	Compliance Status
3.19	Unit shall have to display on – line data outside the main factory gate with regard to and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises.	Complied.
3.20	Unit shall either stop or curtail its production activities if the effluent is not adequately treated by the FETP of NCTL to conform to the standards specified by GPCB.	Noted and agreed.
3.21	The authorized representative of NCTL shall have right of entry at any time for the purpose of inspection and monitoring the effluent collection facilities / ETP (if required) of Unit.	Noted and agreed.
3.22	Unit shall have to keep accurate records of quality & quantity of effluent discharged to FETP on day-to-day basis. Separate logbook shall be maintained for recording the data & shall be made available for inspection as & when asked.	Complied. Separate logbook is maintained. Photograph of the same is attached below:



NARMADA CLEAN TECH
(A subsidiary of GIDC)

Contact Person:
Mo.:
Email ID:

Magnetic Flow meter Reading Report for the Month of OCTOBER-2021 (Final Discharge)

TO,
CHEMINOVA INDIA LTD.(INTER)
(Plot No-27/28), GIDC Estate,
Panoli-394116
P-2

Meter Make	
Meter/Seal No	
Meter Size	
CCA Qty(KLD)	
Pump Serial No.	
DATE	01-10-21

Date	Opening Reading at 10.00 a.m	Diff. KL/Day	CO's Repre. Sign	NCT Repre. Sign	Remarks/Breakdown
01/10/2021	604565	140			
02/10/2021	605705	110			
03/10/2021	605815	158			
04/10/2021	605973	166			
05/10/2021	606139	176			
06/10/2021	606315	199			605643
07/10/2021	606514	175			Pen Drive Updated
08/10/2021	606689	194			old Seal = 1949
09/10/2021	606883	158			New Seal = 1949
10/10/2021	606116	0			
11/10/2021	606116	0			Date 30/10/21
12/10/2021	606116	0			Mail for A to 9
13/10/2021	606116	0			Receiver Remove from
14/10/2021	606116	0			Line & Accular the
15/10/2021	606116	0			Discharge So far and
16/10/2021	606116	0			Receiver Remove from
17/10/2021	606116	0			line Flow from Flow
18/10/2021	606116	0			Totalized 6116 Seal
19/10/2021	606116	0			to Tr line
20/10/2021	606116	0			Flow Elect Bat Hi
21/10/2021	606116	0			784 785 786 787
22/10/2021	606116	0			Pen Drive updated
23/10/2021	606116	0			from Total Receipts
24/10/2021	606116	0			606116
25/10/2021	606116	0			
26/10/2021	606116	0			
27/10/2021	606116	0			
28/10/2021	606116	0			
29/10/2021	606116	0			
30/10/2021	606116	0			
31/10/2021	606116	0			
01/11/2021		0			
Total Discharge		1551			

M.I Representative Name & Sign

NCT Person Name & sign

Sr. No.	Consent Condition Requirement	Compliance Status
3.23	Unit shall keep accurate records of quantity of production of each product, quantity of water consumption, quantity of effluent generated and consumption of electricity on day to day basis and required to submit the complied record of each month to GPCB on	Complied. Unit is e-filling Monthly Patrak on GPCB XGN Site every month.

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Sr. No.	Consent Condition Requirement	Compliance Status
	or before fifth day of the succeeding month.	
3.24	In case of incinerators or MEE, the flow measuring devices for mother liquor / toxic effluent / Non-biodegradable effluent, light diesel oil, Furnace oil, etc. i.e. fuel used for combustion, air used for combustion shall be separately provided. Incinerator temperature recording devices as well as gaseous flow measuring devices for scrubber shall also be provided. These data of temperature & flow should be recorded every day & submitted to GPCB on monthly basis.	Not applicable
3.25	Disposal system for storm water shall be provided separately. In no circumstances storm water shall be mixed with the industrial effluent.	Complied. Unit has provided separate storm water line.
3.26	Leachate from the hazardous solid waste, if any shall also be connected into a collection tank through leachate collection facilities and shall be treated along with industrial effluent and final treated effluent shall be discharged to the CETP of NCTL.	Complied. Unit is following the given condition.
3.27	If the NCTL authority terminates the membership of CETP, the NCTL member unit shall have to close down the manufacturing activities / industrial operation of the process plant immediately until the NCTL membership is resumed.	Noted.
3.28	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.
3.29	The environmental audit shall be carryout yearly, if applicable. The environmental statements pertaining to the previous year shall be submitting to this State Board latest by 30th September every year.	Complied.
3.30	Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is at least 1000 trees per acre of land and a green belt of 5 meters width is developed.	Complied. Photographs of the same is attached below:

Greenbelt along the approach road

Near car parking and admin building

Near process plant

Greenbelt near utility section

3.31	In case of change of ownership / management the name and address of the new ownership / partners / directors / proprietor should	Noted and agreed.

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Sr. No.	Consent Condition Requirement	Compliance Status
	immediately be intimate to the Board. Also any change in equipment or working conditions as mentioned in the consents form / order should immediately be intimated to this Board.	
3.32	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.	
	Specific Condition	
	1. Unit shall operate only one boiler (i.e. NG based Boiler Maxima GT-5310 (Cap. 10 TPH) OR Furnace Oil based Boiler I AC GT-4423 (Cap 10 TPH)) at a same time.	Complied. Unit is following the given condition.
4.1	Unit shall use fuel as specified in this consent and the flue gas emission through stack shall conform to the standards.	Complied Complied. Unit is following the given condition.

Sr No	Stack ID/Stack Attached to	Capacity/ Remarks	Name of Fuel	Quantity of Fuel	Air Pollution Control Measure (APCM)	Stack Height (m) (From GL)	Parameters	Permissible Limit	Unit
1	95313-Boiler	Common stack of Boiler Maxima GT-5310 (Cap 10 TPH) & Boiler IAC GT-4423 (Cap 10 TPH)	Natural gas	NG- 9000 m^3/h or FO- 625 L/h	Not Applicable	32	PM SO_2 NO_X	150 100 50	mg / Nm^3 ppm ppm
2	8826-D.G. Sets	D.G. Set Cap. 1250 KVA	HSD	90 L/h	Not Applicable	09	PM SO_2 NO_X	150 100 50	mg / Nm^3 ppm ppm
3	44916-Incinerator	Incinerator for waste gas with APCM as Water+Alkali Scrubber (Dhal Chamber)	Not used/NA	--	Water Scrubber + Alkali Scrubber	45	Parameters as mentioned below	--	--
4	60699-Boiler	Boiler (Model-Tejaswee- Cap.: 18 TPH)	Agro Waste / Briquettes	Bagasse/ Groundnut shell/ Briquettes: 2970 kg/h	Dust collector, Bag filter	40	PM SO_2 NO_X	150 100 50	mg / Nm^3 ppm ppm

Treated flue gas emissions discharge through stack of Incinerator to atmosphere shall always be less than or equal to the following

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Sr. No.	Consent Condition Requirement	Compliance Status
	parameter specific emission standards.	

Parameters	Emission Standard	Sampling Duration
Cd + Th + their compounds	0.05 mg/Nm^3	Sampling time anywhere between 30 minutes and 8 hours
CO	100 mg/Nm^3	30 minutes
CO	50 mg/Nm^3	Standard refers to daily average value
HCl	50 mg/Nm^3	30 minutes
HF	4 mg/Nm^3	30 minutes
Hg and Its compounds	0.05 mg/Nm^3	Sampling time anywhere between 30 minutes and 8 hours
NOx (NO and NO2 expressed as NO2)	400 mg/Nm^3	30 minutes
Particulates	50 mg/Nm^3	30 minutes
Sb + As + Pb + Cr + Co + Cu + Mn + Ni + V + their compounds	0.5 mg/Nm^3	Sampling time anywhere between 30 minutes and 8 hours
SO_2	200 mg/Nm^3	30 minutes
Total dioxins and furans	0.1 ng TEQ/ Nm^3	6-8 hours sampling. Please refer guidelines for 17 concerned congeners for toxic equivalence values to arrive to total toxic equivalence.
Total Organic Carbon	20 mg/Nm^3	30 minutes

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

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

Compliance Status: Complied. Unit is following the given condition.

Sr. No.	Stack ID/Stack Attached to	Name of Process/Plant	Air Pollution Control Measure (APCM)	Stack Height (m) (From G.L)	Parameter & Permissible Limit
1	44914 - Reaction Vessels	Stack attached to reactor of TMP Plant	Alkali Scrubber, Water Scrubber	15	Ammonia -175 mg/Nm^3
2	8828 - Reaction Vessels	Stack attached to Sulphur Furnace	Alkali Scrubber, Water Scrubber	45	PM- 150 mg/Nm^3 SO_2 -40 mg/Nm^3 NO_x - 25 mg/Nm^3 HCl- 20 mg/Nm^3 Chlorine - 09 mg/Nm^3 H_2S- 45 mg/Nm^3 CO- 150 mg/Nm^3
3	44915- Reaction Vessels	Stack attached to reactor	Alkali Scrubber	15	HCl- 20 mg/Nm^3

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Sr. No.	Consent Condition Requirement	Compliance Status

		of PCl_3 Plant			Chlorine- 09mg/Nm^3
4	93982 - Reaction Vessels	Stack attached to Emergency vent of PCl_3	Alkali Scrubber	15	HCl- 20 mg/Nm^3 Chlorine- 09mg/Nm^3

4.3 Unit shall adhere to stringent air pollutants standards i.e. 80% of existing flue gas and process emission standards in the CPA.

Flue gas Emission Standards		
Parameters	Existing	Revised norms (80% of existing)
PM	150 mg/Nm^3	120 mg/Nm^3
SO_2	100 mg/Nm^3	80 mg/Nm^3
NO_x	50 mg/Nm^3	40 mg/Nm^3

a. Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

b. 24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

Complied.

4.4 Following air pollution control measures shall be provided for the flue gas emission sources like Boiler, Thermic Fluid Heaters etc. (As Applicable)

Stipulated APCM in Red category industrial units of CPA	
Steam generation capacity (in TPH)	Type of APCM
Less than 1	Multi Cyclone
1 to < 3	Multi Cyclone + Water Scrubber
3 to < 6	Bag filter + Water Scrubber
≥ 6	ESP + Water Scrubber

Noted and complied
Boiler is equipped with dust collector.

4.5 Unit shall provide at least two stage scrubbing system of appropriate media for the control of the process gas emission.

All the scrubbers are equipped with double stage scrubbing system with appropriate media.

4.6 Unit shall install and commission Continuous Emission Monitoring System – CEMS (as per CPCB guidelines for relevant parameters) which shall be connected with GPCB / CPCB server (In case of large and medium red category industries)

Complied

4.7 All common facilities shall install CEMS (as per CPCB guidelines for relevant parameters) which shall be connected with GPCB / CPCB server to the stacks provided with Common Multiple Effect Evaporator (CMEE), Common Spray Dryer, Common incinerator etc.

Not Applicable

4.8 The unit shall adhere to Sector specific guidelines/ SOP published by GPCB/ CPCB from time to time for effective fugitive emission control. (like guidelines for: Stone crushing units, Coal handling units, spent solvent handling and management, spent acid management, Decontamination of drums, containers etc.)

Noted. All the applicable SOP's published by GPCB/CPCB for effective fugitive emissions will be followed

CCA No: AWH-86147, Date of issue-23rd-May-2017 and valid up to 4th-March-2022, CCA amendment dated 09/08/2017 having CTO no.: GPCB/ANK/CCA-115/ID-15016/419703, CCA amendment no.: AWH-94667 dated 31/08/2018, CCA amendmentorder no.: AWH-104863 issued vide letter no. GPCB/ANK/CCA-115(13) ID-15016/529725, dated 10/12/2019

Sr. No.	Consent Condition Requirement	Compliance Status
4.9	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.	Noted. Odor control measures are in place to control odor nuisance from specific activities.
4.10	Unit shall not use Pet-coke, furnace oil, LSHS as a fuel.	Pet-coke, furnace oil, LSHS are not used as a fuel. Only Natural gas and H.S.D. is used
4.11	Unit shall adopt sectoral Best available Technology-BAT (Like Use of Introduction Furnace, Electric Arc Furnace instead of Cupola furnace in foundry industry, Caustic Recovery System in Cotton Textile units etc.	Not applicable.
4.12	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.	Green belt development is in progress outside premises by acquiring land given by GIDC. 33.18% green belt of the total plot area is already available within premises.
4.13	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.
4.14	Unit shall operate industrial plant / air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the standards specified as above.	Complied.
4.15	The consent to operate the industrial plant shall lapse if at any time the parameters of the gaseous emission are not within the tolerance limits specified as above.	Noted
4.16	Unit shall provide portholes, ladder, platform etc. at chimney(s) for monitoring the air emissions and the same shall be open for inspection to / and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted / displayed to facilitate identification.	Complied. Stack monitoring facilities already provided
4.17	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.	Complied. Noise levels are well within the permissible limit.
4.18	All efforts shall be made to control VOC emissions and odor problem, if any.	Complied.
5.	AUTHORISATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES	
5.1	Unit shall comply with provisions of Hazardous & Other Wastes (Management & Transboundary Movement) Rules-2016	Noted the given condition
5.2	The condition No. 6.2 under authorization for Hazardous & Other Wastes of the CCA order No.: AWH-86147, issued vide letter no. GPCB/ANK/CCA-115(9)/ ID-15016/415086, dated 16/06/2017 and further amended dated 14/08/2017 is amended and shall now be read as under.	Complied. Disposal of hazardous waste is as per granted quantity by GPCB.

Sr. No.	Waste	Existing	Proposed	Total Quantity/ Year	Category No.	Facility
1.	ETP Sludge	1800 MT	--	1800 MT	34.3	Collection, Storage, Transportation Disposal at TSDF – BEIL & SEPPL

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Sr. No.	Consent Condition Requirement	Compliance Status
	2. Used oil | 11.04 MT | -- | 11.04 MT | 5.1 | Collection, Storage, Transportation. Disposal by selling to Registered re-refiners.	
	3. Discarded Container Bags/liners | 2, 41, 440 Nos. OR 1943 MT | -- | 2, 41, 440 Nos. OR 1943 MT | 33.3 | Collection, Storage, Decontamination. Sale to authorized decontamination facility/ reuse. Bags/liners to BEIL & SEPPL	
	4. Process waste Residue | 12821 MT | -- | 12821 MT | 29.1 | Collection, Storage, Transportation & disposal to common TSDF facility of BEIL/SEPPL/GSPL-Palsana /RSPL/Co-processing in cement industries.	
	5. Solid waste/ Evaporation salt | 9259 MT | -- | 9259 MT | 29.1 | Collection, Storage, Transportation & disposal to common TSDF facility of BEIL/ SEPPL/ GSPL Palsana/ RSPL/ Co-processing to cement industries.	
	6. Recovered Sulphur | 4320 MT | -- | 4320 MT | D-1 | Collection, Storage, Transportation & disposal to common TSDF facility of BEIL & SEPPL	
	7. Sodium Hydro sulfide (30%) | -- | 3240 MT | 3240 MT | -- | Collection, Storage, Transportation & sold to actual enduser is having permission under Rule 9 & after making MoU.	
	8. Hydrochloric acid (30%) | -- | 4152 MT | 4152 MT | B-15 | Collection, Storage, Transportation & sold to actual enduser is having permission under Rule 9 & after making MoU.	
	9. Phosphoric Acid | -- | 1460 MT | 1460 MT | B-15 | Collection, Storage, Transportation & sold to actual enduser is having permission under Rule 9 & after making MoU.	
	10. Sodium Bisulphite powder | -- | 2250 MT | 2250 MT | -- | Collection, Storage, Transportation & sold to actual enduser is having permission under Rule 9 & after making MoU.	
	11. Sodium Sulphite 30% | -- | 3775 MT | 3775 MT | -- | Collection, Storage, Transportation & sold to actual enduser is having permission under Rule 9 & after making MoU	
	12. Sodium Bisulphite solution (30%) | -- | 7440 MT | 7440 MT | -- | Collection, Storage, Transportation & sold to actual enduser is having permission under Rule 9 & after making MoU	
5.3	The authorization is granted to operate a facility as above	Noted the given condition
5.4	The authorization shall be in force for a period upto 04/03/2022	Noted the given condition
5.5	The authorization is subject to the conditions stated below and such other conditions as may be specified in the rules from time to time under the Environment (Protection) Act- 1986	Noted.
5.6	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.	Handling, storage and disposal of fly ash is done as per guidelines at designated locations.
5.7	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.	Complied
5.8	Industry shall strictly comply with all the measures specified in guidelines for spent solvent management, spent acid management, and other guidelines/ directions published from time to time by GPCB and/ or CPCB, etc.	Complied
5.9	Unit shall carry out transportation of hazardous waste through GPS mounted vehicles only	All the transportation of hazardous wastes is done through GPS mounted vehicles only.
6	TERMS AND CONDITIONS OF AUTHORISATION :	

CCA No: AWH-86147, Date of issue-23rd-May-2017 and valid up to 4th-March-2022, CCA amendment dated 09/08/2017 having CTO no.: GPCB/ANK/CCA-115/ID-15016/419703, CCA amendment no.: AWH-94667 dated 31/08/2018, CCA amendmentorder no.: AWH-104863 issued vide letter no. GPCB/ANK/CCA-115(13) ID-15016/529725, dated 10/12/2019		
Sr. No.	Consent Condition Requirement	Compliance Status
6.1	The authorized person shall comply with the provisions of the Environment (Protection) Act-1986, and the rules made there under.	Complied.
6.2	The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Gujarat Pollution Control Board.	Noted
6.3	The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization.	Noted and agreed.
6.4	Any un authorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.	Noted
6.5	The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.	Complied.
6.6	The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on “Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty”.	Noted
6.7	It is the duty of the authorized person to take prior permission of the Gujarat Pollution Control Board to close down the facility.	Noted
6.8	The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean – up operation.	Hazardous and other wastes are not imported.
6.9	The record of consumption and fate of the imported hazardous and other wastes shall be maintained.	Hazardous and other wastes are not imported.
6.10	The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.	Noted
6.11	The importer or exporter shall bear the cost of import or export and mitigation of damages, if any.	Hazardous and other wastes are not imported or exported.
6.12	An application for the renewal of an authorization shall be made as laid down under Hazardous & Other Wastes (Management and Transboundary Movement) Rules – 2016.	Noted
6.13	Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.	Noted
6.14	Annual return shall be filed by June 30th for the period ensuring 31st March of the year.	Complied.
6.15	Unit shall have to display the relevant information with regard to hazardous waste as indicated in the Court’s order in W. P. No. 657 of 1995 dated 14th October 2003.	Complied.
6.16	Unit shall submit report of compliance of the conditions of EC every year to the Board prepared by third party.	Noted.
6.17	Unit shall enhance CER fund allocation to at least 1.5 times the slabs given in the OM dated 01.05.2018 for SPA and 2 times for CPA in case of Environmental Clearance.	Noted. It will be implemented

Annexure 3 -COPY OF EXISTING EC,NOC/CTE &CC&A/CTO

EC copy

By Speed Post/Online

F. No. IA-J-11011/53/2018-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: 31st December, 2019

To

M/s Cheminova India Limited (Intermediate Division)
Plot No.(27+28)/A, GIDC Industrial Estate, Panoli
District Bharuch (Gujarat)
Email: abhay.arora@fmc.com

Sub: Expansion of pesticides and Pesticide specific intermediates from 19705 TPA to 47681 TPA at Plot No.(27+28)/A, GIDC Industrial Estate, Panoli, Taluka Ankleshwar, District Bharuch (Gujarat) by M/s Cheminova India Limited (Intermediate Division)- Environmental Clearance - reg.

Sir,

This has reference to your proposal No. IA/GJ/IND2/88017/1995 dated 18th January, 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 pesticides and Pesticide specific intermediates from 19705 TPA to 47681 TPA by M/s Cheminova India Limited (Intermediate Division) in an area of 149163.17 sqm at Plot No. (27+28)/A, GIDC Industrial Estate, Panoli, Taluka Ankleshwar, District Bharuch (Gujarat).

3. The details of products are as under:-

S. No	Product	Existing (TPA)	Proposed (TPA)	Total (TPA)
1.	Phosphorus Trichloride (PCl_3)/ Phosphoryl chloride ($POCl_3$)	1000	--	1000
2.	Tri methyl Phosphite (TMP) or Tri ethyl Phosphite (TEP)	100	--	100
3.	Diethyl Thio Phosphoryl Chloride (DETPC) /Sodium salt of Diethyl Thio Phosphoryl Chloride (Na-DETA)	5330	2670	8000
4.	Cyhalothrin Acid	250	--	250
5.	Phosphorus Penta Sulphide (P_2S_5)	3400	--	3400
6.	Acid based products [2-brornobutyric Acid (int),ethyl 2-(4-hydroxy phenoxy) propionate (O-HPPA) (int), Thiocyclam (I), Bispyribac-Sodium	150	--	150

	(H),Pyrithiobac-Sodium(H), Methoxy Amine Hydrochloride (int), 2- hydroxyphenyl Acetic Acid (HPAA) (int), amino acid (int)] etc.			
7.	Amide group based products [Pretilachlor (H), Captan (F), Cymoxanil (F), Beflubutamide (H), Pethoxamide (H), Carboxin (F), Flubendamide (I), Chlorantraniliprole (I), Thiaflusamide (F), Zoxamide (F), Flufenacet (H), 2 Aminosulfonyl-N-N- Dimethylnicotinamide (SNA) (int), 2-(Methoxycarbonyl) thiophene thiophene-3 Sulfonamide (MST) (Int)] etc.	150	--	150
8.	Aniline group Bases products [Pendirnethalin (H), Fluazinam (F), Metaiaxyi (F), Famoxadone (F)] etc.	1200	--	1200
9.	Azine group based product Fenpyroximate (I), Metribuzin (H), Pymetrozine (I), Arnitraz (I),Indoxacarb (I), Clofentezine (I), 2 Methoxy- 4 - Methyl-6-Methylamino-1,3,5-Triazine (MMMT) (Int)] etc.	300	--	300
10.	Azole group based products [Fipronil (I), Hexaconazole (F), Propiconazole (F), Difenoconazole (F), Tricydazole (F), Myclobutanil (F), Florasulam (H), Tebuconazole (F), Flusilazole (F),Tridemefon, Paclobutrazol (F), Thiamethoxam (I), Flutriafol (F), (SafenerIsoxadifen ethyl (Int), Irnidacloprid (I), 2, 6 DiChloroBenzoxazolone (Int), Penoxasulam (H)] etc.	200	--	200
11.	Carbamate group based product [Thiodicarb (I), Propineb (F), Metiram (F), Thiram (F), Cartap hydrochloride (I), Thiophanate Methyl (F)] etc.	500	--	500
12.	Ester group based products [Fenoxaprop-p-Et (H), Clodinafop-Pr (H), Quizolfop-p-ethyl (H), Quinzolfop-p-terfuryl (H), Cyhalofop (H), Isoprothiolane (F), Alphamethrin (I), Lambda Cyhaothrin (I), Cypermethrin (I), Bifenazate (I), Phthalide (Int) etc.	300	--	300
13.	Ether group based products [Propargite (I), oxyfiuorfen (H), 2 Ethoxy Ethyl Amine (Int), S-Cyano MPB (Int)] etc.	200	--	200
14.	Ketone group based product [Mesotrione (H), Suctioned (H), Isoxanutole (H), Dimethomorph (F), Isobutyrophenone (IBP) (Int)] etc.	1200	--	1200
15.	Phosphate group based product [Chlorpyrifos (I) or its intermidiate Na-TCP (Int), Acephate (I),Monocrotophos (I) or its intermediates MCMMAA (Int.), Dimethoate (I), Profenofos (I), Ethephon (PGR)] etc.	5000	--	5000

16.	Pyridine group based product [Pyridalyl (I), Imazethapyr (H) CloquintocctMexyl (H), Acetamiprid (I), 4, 6-DiChloro Pyridine (Int)], Azoxvstrobin (F) etc	250	--	250
17.	Urea group based product [Buprofezin (I),Lufenuron (I), Linuron (H), Diafenthiuron (I), Diuron (H), Novaluron (I), Chlorimuron (int), Hexythiazox (I), Spiromesifen (I), Azimsulfuron (H) ,Sulfonyl Ureas (H)] etc.	100	--	100
18.	Phenol group based product [2- Cyanophenol (Int), 4- Fluro-3 trilluromethylphenole (Int)] etc.	75	--	75
19.	Sulfentrazone	--	2000	2000
20.	F-9600 (2-(2,4-dichlorobenzyl)-4,4-dimethylizoxazolidin-3-one)/Bixlozone	--	4200	4200
21.	F 9990 (Fluindapyr)	--	1200	1200
22.	Malathion	--	10000	10000
23.	F-4050 (2-(4-fluoro-3-(trifluoromethyl)phenoxy)-N-benzylbutanamide)	--	1500	1500
24.	Beflubutamide	--	450	450
25.	Gamma Cyhalothrin	--	300	300
26.	Bifenthrin	--	300	300
27.	Clomazone	--	2000	2000
28.	FMC-57091 (4,4-dimethyl isoxazolidin-3-one)/ (Isoxazolidinone)	--	2600	2600
29.	Thifensulfuron Methyl	--	205	205
30.	Tribenuron Methyl	--	215	215
31.	Metsulfuron Methyl	--	200	200
32.	Ethametsulfuron Methyl	--	10	10
33.	Chlorsulfuron	--	60	60
34.	Triflusulfuron Methyl	--	50	50
35.	Azimsulfuron	--	4	4
36.	Flupyrsulfuron Methyl Sodium	--	12	12
	Total	**19705**	**27976**	**47681**

4. Existing land area is 149163.17 sqm. No additional land will be required for the proposed expansion. Industry has developed greenbelt in an area of 49497 sqm covering 33.18% of total project area. The estimated project cost is Rs.790.36 crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 25.05 crores and the recurring cost (O&M) will be about Rs.102 crores per annum. The project will provide employment for 178 persons directly and 422 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 flows at a distance of 1.66 km in west direction.

6. Total water requirement is estimated to be 1351 cum/day, which include fresh water requirement of 764 cum/day, proposed to be met from GIDC supply.

Effluent of 206 cum/day will be treated through Effluent Treatment Plant (ETP) having Primary, Secondary & Tertiary Treatments & treated effluent of 181 cum/day is discharged into underground conveyance pipeline connected to Final Effluent Treatment Plant (FETP) of M/s Narmada Clean Tech (NCT). It has been now proposed that after expansion, existing and proposed unit shall ensure zero liquid discharge and there will be no discharge of treated/untreated waste water from the unit.

Power requirement after expansion will be 3500 kVA proposed to be met from Dakshin Gujarat Vij Company Limited (DGVCL). Existing unit has one DG set of 1250 kVA. Two more DG sets of 1250 & 1500 kVA will be required under proposed expansion.

Existing unit has two natural gas based boilers of 10 TPH capacity each and one briquettes/bagasse/groundnut shell based boiler of 18 TPH capacity. Incinerator (for waste gas) and one natural gas based thermic fluid heater of 10 lakh Kcal/h will be installed in the expansion.

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 23rd March, 2018. Public hearing is exempted in accordance with the Ministry's OM dated 27th April 2018, as the project site is located inside the notified industrial area.

9. The proposal for environmental clearance was considered by the EAC (Industry-2) in its meetings held on 8-9th April, 2019 and 26-28 June, 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 dated 31st October 2019 and Ministry's communication 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 Pesticides and Pesticide Specific Intermediates from 19705 TPA to 47681 TPA by M/s Cheminova India Limited (Intermediate Division) at Plot No.(27+28)/A, GIDC Industrial Estate, Panoli, Taluka 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) Zero Liquid Discharge shall be ensured including existing facility and the proposed expansion facility and no waste/treated water shall be discharged outside the premises.

(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) 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.

(v) 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.

(vi) To control source and the fugitive emissions (at 99.98%), 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.

(vii) 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.

(viii) Total fresh water requirement shall not exceed 764 cum/day to be met from GIDC water supply. Prior permission in this regard shall be obtained from the concerned regulatory authority.

(ix) 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

(x) 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.

(xi) 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.

(xii) 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.

(xiii) 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.

(xiv) 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.

(xv) 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.

(xvi) Safety and visual reality training shall be provided to employees.

(xvii) 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.

(xviii) 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.

(xix) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

(xx) 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.

(xxi) Mitigating 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 the 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)
वैज्ञानिक 'ई'
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Min.of Environment,Forest and Climate Change
भारत सरकार, नई दिल्ली
Govt. of India, New Delhi

(Dr. R. B. Lal)
Scientist E

Copy to: -

1. The Deputy DGF (C), MoEF&CC Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal -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

CC&A/CTO-AmendmentCopy

GPCB

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Website : www.gpcb.gov.i

By R.P.A.D.

CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A – Amendment)
CCA AMENDMENT NO: AWH - 104863

NO: GPCB/ANK/CCA-115(13)/ID-15016/ **DT: 10/12/2019**

To,
M/S. CHEMINOVA INDIA LTD.,
PLOT NO:27,28,
GIDC ESTATE PANOLI,
DIST-BHARUCH.

SUB: Amendment in Consolidated Consent & Authorization (CC&A) under various Environmental Acts/ Rules.

REF: (1) Your application No. 163733 dated **19/09/2019.**
(2) CCA No. AWH - 86147 dated :16/06/2017
(3) CCA Amendment No. AWH -94667 dated:31/08/2018.
(4) CTE Amendment No. 98963 dated:30/03/2019 (For change in Product Mix)

Sir,

This has reference to the CCA order No: **AWH-86147, issued vide letter no. GPCB/ ANK/CCA-115(9)/ID-15016/415086, dated 16/06/2017 and further amended dated 31/08/2018** under the provisions of the various Environmental Act/ Rules, which stands amended as under. The Validity of this order will be up to **04/03/2022.**

1. The list of proposed products to be manufactured shall be as follows:

Sr. No.	Products	Quantity (MT/Annum)			Remarks
		Existing	Proposed	Total (After Change in Product Mix)	
1.	Phosphorus Trichloride (PCl3)/ Phosphoryl chloride (POCl3)	1000	--	1000	No change
2.	Tri methyl Phosphite (TMP) or Tri ethyl Phosphite (TEP)	100	--	100	No change
3.	Diethyl Thio Phosphoryl Chloride (DETPC) /Sodium salt of Diethyl Thio Phosphoryl Chloride (Na-DETA)	5330	--	5330	No change
4.	Cyhalothrin Acid	250	--	250	No change
5.	Phosphorus Penta Sulphide (P2S5)	3400	--	3400	No change
6.	Fluindapyr (F 9990)	--	+150	150	New Product
7.	Bixlozone (F9600)	--	+960	960	New Product

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8.	Acid based products [2-brornobutyric Acid (int), amino acid (int), ethyl 2-(4-hydroxy phenoxy) propionate (O-HPPA) (int), Thiocyclam (I), Bispyribac-Sodium (H), Pyrithiobac-Sodium(H), Methoxy Amine Hydrochloride (int), 2-hydroxyphenyl Acetic Acid (HPAA) (int)] etc.	150	--	150	No change
9.	Amide group based products [Pretilachlor (H), Captan (F), Cymoxanil (F), Beflubutamide (H), Pethoxamide (H), Carboxin (F), Flubendamide (I), Chlorantraniliprole (I), Thiaflusamide (F), Zoxamide (F), Flufenacet (H), 2 Aminosulfonyl-N-N-Dimethylnicotinamide (SNA) (int), 2-(Methoxycarbonyl) thiophene thiophene-3 Sulfonamide (MST) (Int)] etc.	150	--	150	No change
10.	Aniline group Bases products [Pendirnethalin (H), Fluazinam (F), Metalaxyl (F), Famoxadone (F)] etc.	1200	- 1200	--	Discontinue Product
11.	Azine group based product Fenpyroximate (I), Metribuzin (H), Pymetrozine (I), Arnitraz (I), Indoxacarb (I), Clofentezine (I), 2 Methoxy- 4 - Methyl-6-Methylamino-1,3,5-Triazine (MMMT) (Int)] etc.	300	--	300	No change
12.	Azole group based products [Fipronil (I), Hexaconazole (F), Propiconazole (F), Difenoconazole (F), Tricydazole (F), Myclobutanil (F), Florasulam (H), Tebuconazole (F), Flusilazole (F), Tebuconazole (F), Tridemefon, Paclobutrazol (F), Thiamethoxam (I),	200	--	200	No change

Outward No:529725,10/2021

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	Flutriafol (F), (Safener Isoxadifen ethyl (Int), Irnidacloprid (I), 2, 6 DiChloro Benzoxazolone (Int), Penoxasulam (H)] etc.				
13.	Carbamate group based product [Thiodicarb (I), Propineb (F), Metiram (F), Thiram (F), Cartap hydrochloride (I), Thiophanate Methyl (F)] etc.	500	--	500	No change
14.	Ester group based products [Fenoxaprop-p-Et (H), Clodinafop-Pr (H), Quizolfop-p-ethyl (H), Quinzolfop-p-terfuryl (H),Cyhalofop (H), Isoprothiolane (F), Alphamethrin (I), Lambda Cyhaothrin (I), Cypermethrin (I), Bifenazate (I), Phthalide (Int) etc.	300	--	300	No change
15.	Ether group based products [Propargite (I), oxyfiuorfen (H), S- Cyano MPB (Int), 2 Ethoxy Ethyl Amine (Int)] etc.	200	--	200	No change
16.	Ketone group based product [Mesotrione (H), Suctioned (H), Isoxanutole (H), Dimethomorph (F), Isobutyrophenone (IBP) (Int)] etc.	1200	--	1200	No change
17.	Phosphate group based product [Chlorpyrifos (I) or its intermidiate Na-TCP (Int), Acephate (I), Monocrotophos (I) or its intermediates MCMMAA (Int.), Dimethoate (I), Profenofos (I), Ethephon (PGR)] etc.	5000	--	5000	No change
18.	Pyridine group based product [Pyridalyl (I), Imazethapyr (H) Cloquintocct Mexyl (H), Acetamiprid (I), 4, 6-DiChloro Pyridine (Int)], Azoxystrobin (F) etc	250	--	250	No change

Outward No:529725, 10/12/2019

19.	Urea group based product [Buprofezin (I), Lufenuron (I), Linuron (H), Diafenthiuron (I), Diuron (H), Novaluron (I), Chlorimuron (int), Hexythiazox (I), Spiromesifen (I), Azimsulfuron (H) ,Sulfonyl Ureas (H)] etc.	100	--	100	No change
20.	Phenol group based product [2- Cyanophenol (Int), 4-Fluro-3 trilluromethyl phenole (Int)] etc.	75	--	75	No change
	Total	**19705**	**-90**	**19615**	

2. **SPECIFIC CONDITIONS:-**

a. **Total production shall not exceed 19615 MT/Month in any case.**
b. **There shall be no change in mode of disposal of wastewater.**
c. **There shall be no change in fuel consumption, flue gas emission and process gas emission.**
d. **There shall be no change in Hazardous waste quantity / category.**
e. **Unit shall sell out their hazardous waste to authorized end-users who is having authorization with valid CCA and rule 9 permission to receive this waste. Unit shall make MoU with such authorized end-users and submit MoU at time of application of CCA.**
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. **There shall not be increase in pollution load due to proposed change in product mix.**
i. **There shall not be any change in plant building, equipments & machineries to manufacture the proposed new products after change in product mix.**
j. **In the case of submission of the false or misleading data, this CTE amendment will be forfeited immediately.**
k. **CCA is granted with a condition to comply guideline to be issued by Ministry of Environment, Forest and Climate Change in the matter of O.A.No.1038/2018 and Hon.NGT order dated: 10/07/2019 and 23/08/2019.**

[A] Additional conditions under Air Act:

a) Unit shall adhere to stringent air pollutants standards i.e. 80 % of existing flue gas and process emission standards in the CPA.

Outward No 59925, 07/10/09

GPCB

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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

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

Stipulated APCM in Red category industrial units of CPA	
Steam generation capacity (in TPH)	**Type of APCM**
Less than 1	Multi Cyclone
1 to <3	Multi Cyclone + Water Scrubber
3 to <6	Bag filter + Water Scrubber
≥ 6	ESP+ Water Scrubber

c) Unit shall provide at least two stage scrubbing system of appropriate media for the control of the process gas emission.

d) Unit shall install and commission Continuous Emission Monitoring System- CEMS (as per CPCB guidelines for relevant parameters) which shall be connected with GPCB/ CPCB server (In case of large and medium red category industries)

e) All common facilities shall install CEMS (as per CPCB guidelines for relevant parameters) which shall be connected with GPCB/CPCB server to the Stacks provided with Common Multiple Effect Evaporator (CMEE), Common Spray Dryer, Common incinerator etc.

f) The unit shall adhere to Sector specific guidelines/ SOP published by GPCB / CPCB from time to time for effective fugitive emission control. (like guidelines for: Stone crushing units, Coal handling units, spent solvent handling and management, spent acid management, Decontamination of drums, containers etc.)

g) Unit shall take adequate measures to control odour nuisance from the industrial activities which may include measures like- use of masking agent with atomizer system (water curtain), closed / automatic material handling system, containment of the odour vulnerable areas etc.

h) Unit shall not use Pet-coke, furnace oil, LSHS as a fuel.

i) Unit shall adopt sectoral Best Available Technology-BAT (Like Use of Induction Furnace, Electric Arc Furnace instead of Cupola furnace in foundry industry, Caustic Recovery System in Cotton Textile units etc.)

j) Unit shall provide green belt of 40% of the plot area, using concept of the social forestry and development of green belt outside project premises in adjacent areas.

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.

Outward No. 5972 Dt. 10/12/2019

b) In the case, if the Industry is not a member of CETP and domestic waste water generation is more than 10 KLPD, industry shall install STP of adequate capacity and treated sewage shall be reused / recycled to the maximum extent.

c) In case of Large and Medium Red Category industry, the unit shall install system for continuous monitoring of effluent quality / quantity as per CPCB guidelines for relevant parameters (like pH, Flow, Temperature, TOC/COD, NH3-N etc.) and shall be connected to GPCB server. In case, if the industry is a member of CETP, unit shall install flow meter.

d) If the water consumption of the unit is more than 50 KLPD, Unit shall submit detailed water harvesting plan (off site).

e) The unit shall explore Techno-Economic feasibility of Zero Liquid Discharge (ZLD) and if feasible, ZLD should be adopted.

[C] Additional conditions under the Hazardous Waste Management Rules:

a) Unit shall strictly carry out handling, storage and disposal of fly-ash, slag, red-mud, de-inking sludge etc. (High Volume- Low Effect Wastes) as per prevailing guidelines and its disposal at designated locations approved by the Board.

b) Industry shall dispose its hazardous wastes through co-processing, pre-processing to the extent possible prior its disposal to incineration/ landfill as per provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

c) Industry shall strictly comply with all the measures specified in guidelines for spent solvent management, spent acid management, and other guidelines/directions published from time to time by GPCB and/or CPCB, etc.

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

[D] Other General Conditions:

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

b) Unit shall enhance CER fund allocation to at least 1.5 times the slabs given in the OM dated 01.05.2018 for SPA and 2 times for CPA in case of Environmental Clearance.

3. CONDITION UNDER THE WATER ACT:

3.1 The condition No. 3.3 for Water Consumption under Water Act of the CCA order No: **AWH-86147, issued vide letter no. GPCB/ ANK/CCA-115(9)/ID-15016/415086, dated 16/06/2017 and further amended dated 31/08/2018** is amended and shall now be read as under.

a. Domestic: 25 KL/Day (Existing 25 KLD + Proposed Nil)
b. Industrial: 423 KL/Day (Existing 429 KLD - Proposed 6 KLD)
c. Gardening: 25 KL/Day (Existing 25 KLD + Proposed Nil)

Total: 473 KL/Day (Existing 479 KLD - Proposed 6 KLD)

3.2 The condition No. 3.1 & 3.2 for Wastewater Generation under Water Act of the CCA order No: **AWH-86147, issued vide letter no. GPCB/ ANK/CCA-115(9)/ID-15016/415086, dated 16/06/2017 and further amended dated 31/08/2018** is amended and shall now be read as under.

a. Domestic: 25 KL/Day (Existing 25 KLD + Proposed Nil)
b. Industrial: 176 KL/Day (Existing 181 KLD - Proposed 5 KLD)

Total: 201 KL/Day (Existing 206 KLD - Proposed 5 KLD)

3.2 176 KLD treated effluent shall be discharged to NCTL by underground drainage line and 25 KLD domestic sewage shall be disposed off through septic tank/soak pit system as per previous CCA conditions.

Outward No.52/25/20/2021

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4 All other conditions of CCA order No: **AWH-86147, issued vide letter no. GPCB/ ANK/CCA-115(9)/ID-15016/415086, dated 16/06/2017 and further amended dated 31/08/2018** will remain same.

For and on behalf of
GUJARAT POLLUTION CONTROL BOARD

(A.V.SHAH)
SR. ENVIRONMENT ENGINEER

Outward No:529725,10/12/2019

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By R.P.A.D.

CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A – Amendment)
CCA AMENDMENT NO: AWH - 94667

NO: GPCB/ANK/CCA- 115(10)/ID-15016/_____ **DT:___/08/2018**

To,
M/S. CHEMINOVA INDIA LTD.(INTERMEDIATE DIV),
PLOT NO:27, 28,
GIDC ESTATE PANOLI,
DIST-BHARUCH.

SUB: Amendment in Consolidated Consent & Authorization (CC&A) under various Environmental Acts/ Rules.

REF: (1) Your application No. 130970 dated **26/04/2018.**
(2) CCA No. AWH - 86147 dated : 16/06/2017 and further amended dated 14/08/2017.
(3) CTE Amendment No. 89767 dated: 27/12/2017 (For change in Product Mix)

Sir,

This has reference to the CCA order No: AWH-86147, issued vide letter no. GPCB/ ANK/ CCA-115(9)/ ID-15016/415086, dated 16/06/2017 and further amended dated 14/08/2017 under the provisions of the various Environmental Act/ Rules, which stands amended as under. The Validity of this order will be up to **04/03/2022.**

1. **The list of proposed products to be manufactured shall be as follows:**

Sr. No.	Products	Quantity (MT/Year)		
		Existing	Proposed	Total (After Change in Product Mix)
1.	Phosphorus Trichloride (PCl_3)/ Phosphoryl chloride ($POCl_3$)	1000	-	1000
2.	Tri methyl Phosphite (TMP) or Tri ethyl Phosphite (TEP)	1700	-1600	100
3.	Diethyl Thio Phosphoryl Chloride (DETPC) /Sodium salt of Diethyl Thio Phosphoryl Chloride (Na-DETA)	3980	+1350	5330
4.	Cyhalothrin Acid	-	+250	250
5.	Phosphorus Penta Sulphide (P_2S_5)	3400	-	3400
6.	Acid based products [2-brornobutyric Acid (int), amino acid (int), ethyl 2-(4-hydroxy phenoxy) propionate (O-HPPA) (int), Thiocyclam (I), Bispyribac-Sodium (H), Pyrithiobac-Sodium(H), Methoxy Amine Hydrochloride (int), 2-hydroxyphenyl Acetic Acid (HPAA) (int)] etc.	150	-	150

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7.	Amide group based products [Pretilachlor (H), Captan (F), Cymoxanil (F), Beflubutamide (H), Pethoxamide (H), Carboxin (F), Flubendamide (I), Chlorantraniliprole (I), Thiaflusamide (F), Zoxamide (F), Flufenacet (H), 2 Aminosulfonyl-N-N- Dimethylnicotinamide (SNA) (Int), 2-(Methoxycarbonyl) thiophene thiophene-3 Sulfonamide (MST) (Int)] etc.	150	-	150
8.	Aniline group Bases products [Pendimethalin (H), Fluazinam (F), Metalaxyl (F), Famoxadone (F)] etc.	1200	-	1200
9.	Azine group based product Fenpyroximate (I), Metribuzin (H), Pymetrozine (I), Arnitraz (I), Indoxacarb (I), Clofentezine (I), 2 Methoxy- 4 - Methyl-6-Methylamino-1,3,5-Triazine (MMMT) (Int)] etc.	300	-	300
10.	Azole group based products [Fipronil (I), Hexaconazole (F), Propiconazole (F), Difenoconazole (F), Tricydazole (F), Myclobutanil (F), Florasulam (H), Tebuconazole (F), Flusilazole (F), Tebuconazole (F), Tridemefon, Paclobutrazol (F), Thiamethoxam (I), Flutriafol (F), (Safener Isoxadifen ethyl (Int), Imidacloprid (I), 2, 6 DiChloro Benzoxazolone (Int), Penoxasulam (H)] etc.	200	-	200
11.	Carbamate group based product [Thiodicarb (I), Propineb (F), Metiram (F), Thiram (F), Cartap hydrochloride (I), Thiophanate Methyl (F)] etc.	500	-	500
12.	Ester group based products [Fenoxaprop-p-Et (H), Clodinafop-Pr (H), Quizolfop-p-ethyl (H), Quinzolfop-p-terfuryl (H),Cyhalofop (H), Isoprothiolane (F), Alphamethrin (I), Lambda Cyhaothrin (I), Cypermethrin (I), Bifenazate (I), Phthalide (Int) etc.	300	-	300

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13.	Ether group based products [Propargite (I), oxyfluorfen (H), S-Cyano MPB (Int), 2 Ethoxy Ethyl Amine (Int)] etc.	200	-	200
14.	Ketone group based product [Mesotrione (H), Suctioned (H), Isoxanutole (H), Dimethomorph (F), Isobutyrophenone (IBP) (Int)] etc.	1200	-	1200
15.	Phosphate group based product [Chlorpyrifos (I) or its intermidiate Na-TCP (Int), Acephate (I), Monocrotophos (I) or its intermediates MCMMAA (Int.), Dimethoate (I), Profenofos (I), Ethephon (PGR)] etc.	5000	-	5000
16.	Pyridine group based product [Pyridalyl (I), Imazethapyr (H) Cloquintocct Mexyl (H), Acetamiprid (I), 4, 6-DiChloro Pyridine (Int)], Azoxvstrobin (F) etc	250	-	250
17.	Urea group based product [Buprofezin (I), Lufenuron (I), Linuron (H), Diafenthiuron (I), Diuron (H), Novaluron (I), Chlorimuron (int), Hexythiazox (I), Spiromesifen (I), Azimsulfuron (H) ,Sulfonyl Ureas (H)] etc.	100	-	100
18.	Phenol group based product [2- Cyanophenol (Int), 4- Fluro-3 trilluromethyl phenole (Int)] etc.	75	-	75
19.	Urea group based product [Buprofezin (I), Lufenuron (I), Linuron (H), Diafenthiuron (I), Diuron (H), Novaluron (I), Chlorimuron (int), Hexythiazox (I), Spiromesifen (I), Azimsulfuron (H) ,Sulfonyl Ureas (H)] etc.	100	-	100
	Total	**19705**	**0**	**19705**

2. **SPECIFIC CONDITIONS:-**

a. Total production shall not exceed 19705 MT/Year in any case.
b. There shall not be increase in pollution load due to proposed change in product mix.
c. There shall not be any change in plant building, equipments & machineries to manufacture the proposed new products after change in product mix.
d. 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.

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e. There shall be no change in water consumption, wastewater generation and their mode of disposal.

f. There shall be no change in fuel consumption, flue gas emission and process gas emission.

g. As per submission calcium chloride (30%):1000 MT/Year, Ammonium Chloride Sol(16%):15,300 MT/Year, Liq. Ammonia(20%):3600 MT/Year is not produced since 2015 due to not manufacture TMP so whoever unit will manufacture TMP, unit shall obtain CCA Amendment for the same with all required document like MoU with enduser & Rule-9 permission of enduser.

3 **CONDITIONS UNDER HAZARDOUS & OTHER WASTES (MANAGEMENT & TRANSBOUNDARY MOVEMENT) RULES, 2016**

3.1 Unit shall comply with provisions of Hazardous & Other Wastes (Management & Transboundary Movement) Rules-2016.

3.2 The condition No. 6.2 under authorization for Hazardous & other wastes of the CCA order No: AWH-86147, issued vide letter no. GPCB/ ANK/ CCA-115(9)/ ID-15016/415086, dated 16/06/2017 and further amended dated 14/08/2017 is amended and shall now be read as under.

A. **Detail of Hazardous & other wastes by unit:**

Sr. No	Waste	Existing	Proposed	Total Quantity /Year	Catg. No.	Facility
1	ETP SLUDGE	1800 MT	---	1800 MT	34.3	Collection, Storage, Transportation, Disposal at TSDF – BEIL & SEPPL .
2	USED OIL	11.04 MT	---	11.04 MT	5.1	Collection, storage, transportation, Disposal by selling to Registered Re-refiners.
3	Discarded Container Bags/liners	2, 41,440 Nos. OR 1943 MT	---	2, 41,440 Nos. OR 1943 MT	33.3	Collection, Storage, Decontamination, Sale to authorized decontamination facility/reuse. Bags /liners to BEIL & SEPPL.

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Sr. No	Waste	Existing	Proposed	Total Quantity /Year	Catg. No.	Facility
4	Process waste Residue	12821 MT	---	12821 MT	29.1	Collection, Storage, transportation & disposal to common TSDF facility of BEIL / SEPPL/GSPL Palsana / RSPL/ Co- Processing in cement industries.
5	Solid waste/Evaporation salt	9259 MT	---	9259 MT	29.1	Collection, Storage, transportation & disposal to common TSDF facility of BEIL / SEPPL/GSPL Palsana / RSPL/ Co- Processing in cement industries.
6	Recovered sulfur	4320 MT	---	4320 MT	D-1	Collection, Storage, transportation & disposal to common TSDF facility of BEIL & SEPPL.
7	Sodium Hydro sulfide 30%	---	3240 MT	3240 MT	---	Collection, Storage, transportation & sold to actual enduser is having permission under Rule-9 & after making MoU.
8	Hydrochloric Acid 30 %	---	4152 MT	4152 MT	B-15	Collection, Storage, transportation & sold to actual enduser is having permission under Rule-9 & after making MoU.

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Sr. No	Waste	Existing	Proposed	Total Quantity /Year	Catg. No.	Facility
9	Phosphoric Acid	---	1460 MT	1460 MT	B-15	Collection, Storage, transportation & sold to actual enduser is having permission under Rule-9 & after making MoU.
10	Sodium Bisulphite Powder	---	2250 MT	2250 MT	---	Collection, Storage, transportation & sold to actual enduser is having permission under Rule-9 & after making MoU.
11	Sodium Sulphite 30%	---	3775 MT	3775 MT		Collection, Storage, transportation & sold to actual enduser is having permission under Rule-9 & after making MoU.
12	Sodium Bisulphite Solution 30%	---	7440 MT	7440 MT	---	Collection, Storage, transportation & sold to actual enduser is having permission under Rule-9 & after making MoU.

4 All other conditions of CCA order No: AWH-86147, issued vide letter no. GPCB/ ANK/ CCA-115(9)/ ID-15016/415086, dated 16/06/2017 and further amended dated 14/08/2017 will remain same.

Outward No:467347,31/08/2018

For and on behalf of
GUJARAT POLLUTION CONTROL BOARD

(G.H.TRIVEDI)
SR. ENVIRONMENT ENGINEER

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By R.P.A.D.

CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A – Amendment)

NO: GPCB/ANK/CCA-115/ID-15016/ Date: 09/08/2017
Amendment in CCA order No: **AWH-86147,** issued dated **17/06/2017** for revision of effluent discharge norms.

To,
M/s. Cheminova India Ltd(Intermediate Div),
PLOT NO: 27,28,
GIDC ESTATE: Panoli,
DIST-BHARUCH.

SUB: Amendment in Consolidated Consent & Authorization (CC&A) under various Environmental Acts/ Rules – Reg. revision of FETP inlet norms.
REF: (1) Your previous CCA No. **AWH-86147,** dated **17/06/2017**

Sir,

The Board has issued a Consent to Operate (CC&A) for your industry/ operation vide No. AWH-86147 dated 17/06/2017 having validity up to 04/03/2022.

The norms / standards were prescribed in the said consent to operate (CC&A) for the discharge of treated effluent in to FETP(Final Effluent Treatment Plant) of NCT.

Now, based on the recommendations of the norms committee, the Board has prescribed inlet norms for the FETP based on its design Parameter.

M/s. Cheminova India Ltd(Intermediate Div), Plot No: 27,28, GIDC Estate: Panoli, Dist-Bharuch is a member of FETP (NCT) & discharging its effluent to the FETP (NCT). Considering the same, the norms prescribed under condition of the said consent are amended as under:

A. CONDITION UNDER THE WATER ACT:

(1) The effluent conforming to the below standards shall be discharged into G.I.D.C. underground drainage system and conveyed to FETP (NCTL), which shall be further treated at FETP & discharged ultimately to deep sea for final disposal through pipeline.

Sr. No.	PARAMETERS	PERMISSIBLE LIMIT
1	pH	6.5 to 8.5
2	Temperature	40^0 C
3	Colour (pt.co.scale)	100 units
4	Total Suspended Solids (TSS)	150 mg/l
5	Total Dissolved Solids (TDS)	10000 mg/l
6	Biochemical Oxygen Demand, BOD_3, 27^0 C	200 mg/l
7	Chemical Oxygen Demand (COD)	1000 mg/l
8	Oil and Grease(O & G)	10 mg/l
9	Phenolic Compounds (as C_6H_5OH)	5 mg/l
10	Sulphide (as S)	5 mg/l
11	Ammonical Nitrogen (as N)	50 mg/l
12	Total Kjeldahl Nitrogen (as N)	50 mg/l
13	Phosphate (as P)	5 mg/l

(P.T.O.)

Outward No:419703, 09/08/17

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Sr. No.	PARAMETERS	PERMISSIBLE LIMIT
14	Chlorides (as Cl)	1000 mg/l
15	Sulphates (as SO_4)	1000 mg/l
16	Cyanide (as CN)	0.2 mg/l
17	Fluoride (as F)	15 mg/l
18	Hexavalent Chromium (as Cr+6)	0.1 mg/l
19	Total Chromium (as Cr)	2 mg/l
20	Copper (as Cu)	3 mg/l
21	Nickel (as Ni)	3 mg/l
22	Zinc (as Zn)	15 mg/l
23	Iron (as Fe)	3 mg/l
24	Manganese (as Nn)	2 mg/l
25	Mercury (as Hg)	0.01 mg/l
26	Lead (as Pb)	0.1 mg/l
27	Arsenic (as As)	0.2 mg/l
28	Venedium (as V)	0.2 mg/l
29	Cadmium (as Cd)	0.05 mg/l
30	Selenium (as Se)	0.05 mg/l
31	Bio-assay test	90 % Survival of fish after 96 hours in 100 % effluent
32	Insecticides/ Pesticides	Absent

Note: Norms/standard prescribed through earlier consent stands deleted & Norms/ Standard prescribed in condition (1) above shall be adhered to henceforth.

B. All other conditions of CCA order No:AWH-86147, issued dated 17/06/2017 and further amended will remain same.

For and on behalf of
GUJARAT POLLUTION CONTROL BOARD

D.M. Thaker 9/8/17

(D.M.THAKER)
ENVIRONMENT ENGINEER

Outward No:419703, 09/08/2017

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By R.P.A.D

CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A)
CCA NO:AWH-86147

NO: GPCB / ANK / CCA- 115(9)/ ID- 15016/ 415086 **DT :** 16/6/2017

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 **05/03/2017** and inward No.**118626** 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(Intermediate Div)

PLOT NO: 27,28

GIDC ESTATE: Panoli

TALUKA: Ankleshwar

DIST- Bharuch - 394116,Gujarat,India

1. **Consent Order No.:** AWH-86147 **date of Issue** 23/05/2017.

2. The consent under Water Act - 1974 for conveying the industrial effluent to the CETP of M/s. NCTL for the treatment and disposal of treated effluent, The consent under Air Act-1981 & Authorization under Environment (Protection) Act, 1986 shall be **valid up to 04/03/2022** to operate industrial plant to manufacture following products:

Sr	Products	CTE Qty	Applied CCA Qty	Granted CCA Qty	Unit Per Mth	CAS No.	Remarks
1	ACID BASED PRODUCTS [2-BROMOBUTYRIC ACID (INT), AMINO ACID (INT), ETHYL 2-(4-HYDROXY PHENOXY) PROPIONATE (O-HPPA) (INT), THIOCYCLAM (I), BISPYRIBAC-SODIUM (H), PYRITHIOBAC-SODIUM (H), METHOXY AMINE HYDROCHLORIDE (INT), 2-HYDROXYPHENYL ACETIC ACID (HPAA) (INT)]ETC.	12.50	0.00	12.50	Metric Tonne		Either individual or total production of this group products shall not exceed 150 MT/Annum

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Sr	Products	CTE Qty	Applied CCA Qty	Granted CCA Qty	Unit Per Mth	CAS No.	Remarks
2	AMIDE GROUP BASED PRODUCTS [PRETILACHLOR (H), CAPTAN (F), CYMOXANIL (F), BEFLUBUTAMIDE (H), PETHOXAMIDE (H), CARBOXIN (F), FLUBENDAMIDE (I), CHLORANTRANILIPROLE (I), THIAFLUSAMIDE (F), ZOXAMIDE (F),FLUFENACET (H),2 AMINOSULFONYL – N-N-DIMETHYLNICOTINAMIDE (SNA) (INT), 2-(METHOXYCARBONYL) THIOPHENE THIOPHENE-3 SULFONAMIDE (MST) (INT)] ETC.	12.50	0.00	12.50	Metric Tonne		Either individual or total production of this group products shall not exceed 150 MT/Annum
3	ANILINE GROUP BASES PRODUCTS [PENDIRNETHALIN (H), FLUAZINAM (F), METAIAXYI (F), FAMOXADONE (F)] ETC.	100.00	0.00	100.00	Metric Tonne		Either individual or total production of this group products shall not exceed 1200 MT/Annum
4	AZINE GROUP BASED PRODUCT FENPYROXIMATE (I), METRIBUZIN (H), PYMETROZINE (I), ARNITRAZ (I), INDOXACARB (I), CLOFENTEZINE (I), 2 METHOXY -4-METHYL-6-METHYLAMINO-L,3,5-TRIAZINE (MMMT) (INT)] ETC.	25.00	0.00	25.00	Metric Tonne		Either individual or total production of this group products shall not exceed 300 MT/Annum
5	AZOLE GROUP BASED PRODUCTS [FIPRONIL (I), HEXACONAZOLE (F), PROPICONAZOLE (F), DIFENOCONAZO{E (F), TRICYDAZOLE (F), MYCLOBUTANIL (F), FLORASULAM (H), TEBUCONAZOLE (F), FLUSILAZOLE (F), TEBUCONAZOLE (F), TRIDEMEFON, PACLOBUTRAZOL (F), THIAMETHOXAM (I), FLUTRIAFOL (F), (SAFENER ISOXADIFEN ETHYL (INT), LRNIDACLOPRID (I), 2, 6 DICHLOROBENZOXAZOLONE (INT), PENOXASULAM (H)] ETC.	16.66	0.00	16.66	Metric Tonne		Either individual or total production of this group products shall not exceed 200 MT/Annum

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Sr	Products	CTE Qty	Applied CCA Qty	Granted CCA Qty	Unit Per Mth	CAS No.	Remarks
6	CARBAMATE GROUP BASED PRODUCT [THIODICARB (I), PROPINEB (F), METIRAM (F), THIRAM (F), CARTAP HYDROCHLORIDE (I), THIOPHANATE METHYL (F)] ETC.	41.66	0.00	41.66	Metric Tonne		Either individual or total production of this group products shall not exceed 500 MT/Annum
7	ESTER GROUP BASED PRODUCTS [FENOXAPROP-P-ET (H), CLODINAFOP-PR (H), QUIZOLFOP-P-ETHYL (H), QUINZOLFOPP-TERFURYL (H),CYHALOFOP (H), ISOPROTHIOLANE (F),ALPHAMETHRIN (I), LAMBDA CYHAOTHRIN (I), CYPERMETHRIN) I),BIFENAZATE (I), PHTHALIDE (INT],ETC.	25.00	0.00	25.00	Metric Tonne		Either individual or total production of this group products shall not exceed 300 MT/Annum
8	ETHER GROUP BASED PRODUCTS [PROPARGITE (I), OXYFLUORFEN (H), S-CYANO MPB (INT), 2 ETHOXY ETHYL AMINE (INT)]ETC.	16.66	0.00	16.66	Metric Tonne		Either individual or total production of this group products shall not exceed 200 MT/Annum
9	KETONE GROUP BASED PRODUCT [MESOTRIONE (H), SUCTIONED (H), ISOXAFLUTOLE (H), DIMETHOMORPH (F), LSOBUTYROPHENONE (IBP) (INT)]ETC.	100.00	0.00	100.00	Metric Tonne		Either individual or total production of this group products shall not exceed 1200 MT/Annum
10	PHOSPHATE GROUP BASED PRODUCT [CHLORPYRIFOS (I) OR ITS INTERMIDIATE NA-TCP (INT), ACEPHATE (I), MONOCROTOPHOS (I) OR ITS INTERMEDIATES MCMMAA (INT.), DIMETHOATE (I), PROFENOFOS (I), ETHEPHON (PGR)]ETC.	416.66	0.00	416.66	Metric Tonne		Either individual or total production of this group products shall not exceed 5000 MT/Annum
11	PYRIDINE GROUP BASED PRODUCT [PYRIDALYL (I), IMAZETHAPYR (H) CLOQUINTOCCT MEXYL (H), ACETAMIPRID (I), 4,6-DICHLORO PYRIDINE (INT)], AZOXVSTROBIN (F) ETC.	20.83	0.00	20.83	Metric Tonne		Either individual or total production of this group products shall not exceed 250 MT/Annum

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Sr	Products	CTE Qty	Applied CCA Qty	Granted CCA Qty	Unit Per Mth	CAS No.	Remarks
12	UREA GROUP BASED PRODUCT [BUPROFEZIN (I), LUFENURON (I), LINURON (H), DIAFENTHIURON (I), DIURON (H), NOVALURON (I), CHLORIMURON (INT), HEXYTHIAZOX (I), SPIROMESIFEN (I), AZIMSULFURON (H) , SULFONYL UREAS (H)] ETC.	8.33	0.00	8.33	Metric Tonne		Either individual or total production of this group products shall not exceed 100 MT/Annum
13	PHENOL GROUP BASED PRODUCT [2-CYANOPHENOL (INT), 4-FLURO-3 TRILLUROMETHYL PHENOLE (INT)]ETC.	6.25	0.00	6.25	Metric Tonne		Either individual or total production of this group products shall not exceed 75 MT/Annum
14	TRIMETHYL PHOSPHITE (TMP) OR TRIETHYL PHOSPHITE (TEP)	141.66	0.00	141.66	Metric Tonne	0000121-45-9	Total production of this product shall not exceed 1700 MT/Annum
15	DIETHYL THIO PHOSPHORYL CHLORIDE (DETPC) /NADETA	331.66	0.00	331.66	Metric Tonne	0002524-04-1	Total production of this product shall not exceed 3980 MT/Annum
16	PHOSPHORUS PENTA SULPHIDE (P2S5)	283.33	0.00	283.33	Metric Tonne	0001314-80-3	Total production of this product shall not exceed 3400 MT/Annum
17	CALCIUM CHLORIDE 30%	83.33	0.00	83.33	Metric Tonne	0010043-52-4	Total production of this product shall not exceed 1000 MT/Annum
18	SODIUM SULFITE (30%)	314.58	0.00	314.58	Metric Tonne	0007757-83-7	Total production of this product shall not exceed 3775 MT/Annum
19	AMMONIUM CHLORIDE SOLUTION 16%	1333.33	0.00	1333.33	Metric Tonne	0012125-02-9	Total production of this product shall not exceed 16000 MT/Annum
20	HYDROCHLORIC ACID 30%	340.00	0.00	340.00	Metric Tonne	0007647-01-0	Total production of this product shall not exceed 4080 MT/Annum
21	PHOSPHORIC ACID	121.66	0.00	121.66	Metric Tonne	0007664-38-2	Total production of this product shall not exceed 1460 MT/Annum
22	SODIUM BISULPHITE POWDER	187.50	0.00	187.50	Metric Tonne	0007631-90-5	Total production of this product shall not exceed 2250 MT/Annum
23	SODIUM HYDRO SULFIDE 30%	270.00	0.00	270.00	Metric Tonne	0140650-84-6	Total production of this product shall not exceed 3240 MT/Annum
24	LIQUOR AMMONIA 20%	300.00	0.00	300.00	Metric Tonne	0007664-41-7	Total production of this product shall not exceed 3600 MT/Annum
25	SODIUM BISULPHITE SOLUTION 30%	620.00	0.00	620.00	Metric Tonne	0007631-90-5	Total production of this product shall not exceed 7440 MT/Annum
26	PHOSPHORUS TRICHLORIDE (PCL3) / PHOSPHOROUS OXY CHLORIDE (POCL3)	83.33	0.00	83.33	Metric Tonne	0007719-12-2	Total production of this product shall not exceed 1000 MT/Annum

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SPECIFIC CONDITIONS

1. Mother liquor 35 KLD shall be incinerated in common incinerator facility at BEIL or SEPPL or GSPL, Palsana OR send it for co-processing to cement industries.

OTHER CONDITIONS

1.All the efforts shall be made to send hazardous waste to cement industry for Co- processing first & there after it shall be disposed through other options.

2.Unit shall follow spent solvent management guideline framed by the Board and shall make MoU with outside distillation units, if any. Also submit the prescribed forms as per guideline.

3.Unit shall strictly follow "Fly Ash Notification" for disposal of generated ash.

3. CONDITION UNDER THE WATER ACT:

3.1 The quantity of total water consumption shall not exceed 500.00 KL/Day as per below break up as mentioned in form D submitted for consent application under the Water Act- 1974.

a) Industrial: 475.00 KL/Day
b) Domestic: 25.00 KL/Day

3.2 The quantity of total waste water generation shall not exceed 206.00 KL / Day as per below break up as mentioned in form D submitted for consent application under the Water Act- 1974.

a) Industrial: 181.00 KL/Day
b) Domestic: 25.00 KL/Day

3.3 Sewage shall be disposed off through septic tank/soak pit system or shall be treated separately in Sewage Treatment Plant (STP) to conform the following standards and treated sewage shall be utilized on land for irrigation / plantation.

Sr. No.	PARAMETERS	PERMISSIBLE LIMIT
1	Biochemical Oxygen Demand, BOD_3, 27° C	Less than 20 mg/L
2	Total Suspended Solids	Less than 30 mg/L
3	Total Residual Chlorine	Minimum 0.5 ppm

Or Sewage shall be treated in ETP along with Industrial effluent and discharged into GIDC underground drainage system and conveyed to FETP (NCTL).

3.4 The quality of industrial effluent shall conform to the following standards(as per GPCB norms, whichever is applicable)

SR No.	PARAMETERS	PERMISSIBLE LIMIT
1	pH	5.5 to 8.5
2	Temperature	40 C
3	Colour (pt.co.scale)	100 units
4	Total Suspended Solids (TSS)	100 mg/L
5	Total Dissolved Solids (TDS)	2100 mg/L
6	Biochemical Oxygen Demand, BOD3, 27 C	30 mg/L
7	Chemical Oxygen Demand (COD)	100 mg/L
8	Oil and Grease	10 mg/L
9	Phenolic Compounds (as C6H5OH)	1 mg/L
10	Sulphide (as S)	0.5 mg/L

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11	Ammonical Nitrogen (as N)	50 mg/L
12	Chlorides (as Cl)	600 mg/L
13	Sulphates (as SO4)	1000 mg/L
14	Cyanide (as CN)	0.2 mg/L
15	Fluoride (as F)	1.5 mg/L
16	Insecticides/Pesticides	Absent
17	Hexavalent Chromium (as Cr+6)	0.1 mg/L
18	Total Chromium (as Cr)	2 mg/L
19	Copper (as Cu)	2 mg/L
20	Nickel (as Ni)	3 mg/L
21	Zinc (as Zn)	5 mg/L
22	Mercury (as Hg)	0.01 mg/L
23	Lead (as Pb)	0.1 mg/L
24	Arsenic (as As)	0.2 mg/L
25	Cadmium (as Cd)	2 mg/L
26	Selenium (as Se)	0.05 mg/L
27	Total heavy metal	7 mg/L
28	Bio-assay test	90 % Survival of fish after 96 hours in 100 % effluent

3.5 The effluent conforming to the above standards shall be discharged into G.I.D.C. underground drainage system and conveyed to FETP (NCTL) which ultimately leads to deep sea for final disposal through pipeline.

3.6 Unit shall be required to make storage facilities to store the effluent for at least 72 hours by providing acid proof brick lined impervious tanks / HDPE tanks.

3.7 In case of shut - down of plant for more than three (3) days for any reason, the NCTL unit member shall intimate to NCTL authority & GPCB well in advance for the better operation & management of CETP.

3.8 Unit shall make fixed arrangement for discharge of the effluent from their Final collection tanks to the underground drainage network of NCTL. Unit shall not keep any by-pass line or system or loose or flexible pipe line for discharge of the effluent into underground drainage network of NCTL.

3.9 Magnetic flow meters shall be installed at the inlet & outlet of effluent collection tanks / ETP to measure the quantity of effluent discharged into the underground drainage network of NCTL.

3.10 Unit shall affix of water meters as per Section 4 (1) of the water (Prevention and Control of Pollution) Cess Act –1977 for the purpose of measuring and recording the quantity of water consumed at such places as may be required, within 15 days and it shall be presumed that the quantity indicated by the meter has been consumed by the unit until the contrary is proved.

3.11 Unit shall provide adequate / safe effluent sampling facility for the effluent being stored in final collection / discharge tank of ETP or being discharged into CETP.

3.12 Unit shall put up at the entrance a board displaying the name of unit, particulars of the products/ process, the name of proprietor / partners / directors of the unit, NCTL membership number & date of joining of NCTL, the electricity consumer number as on the record of DGVCL.

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3.13 Unit shall have to display on - line data outside the main factory gate with regard to and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises.

3.14 Unit shall either stop or curtail its production activities if the effluent is not adequately treated by the FETP of NCTL to conform to the standards specified by GPCB.

3.15 The authorized representative of NCTL shall have right of entry at any time for the purpose of inspection and monitoring the effluent collection facilities / ETP (if required) of Unit.

3.16 Unit shall have to keep accurate records of quality & quantity of effluent discharged to FETP on day-to-day basis. Separate logbook shall be maintained for recording the data & shall be made available for inspection as & when asked.

3.17 Unit shall keep accurate records of quantity of production of each product, quantity of water consumption ,quantity of effluent generated and consumption of electricity on day to day basis and required to submit the complied record of each month to GPCB on or before fifth day of the succeeding month.

3.18 In case of incinerators or MEE, the flow measuring devices for mother liquor/ toxic effluent / Non-biodegradable effluent, light diesel oil, Furnace oil, etc. i.e. fuel used for combustion, air used for combustion shall be separately provided. Incinerator temperature recording devices as well as gaseous flow measuring devices for scrubber shall also be provided. These data of temperature & flow should be recorded every day & submitted to GPCB on monthly basis.

3.19 Disposal system for storm water shall be provided separately. In no circumstances storm water shall be mixed with the industrial effluent.

3.20 Leachate from the hazardous solid waste, if any shall also be connected into a collection tank through leachate collection facilities and shall be treated along with industrial effluent and final treated effluent shall be discharged to the CETP of NCTL.

3.21 If the NCTL authority terminates the membership of CETP, the NCTL member unit shall have to close down the manufacturing activities / industrial operation of the process plant immediately until the NCTL membership is resumed.

3.22 The Environmental Management Unit / Cell shall be setup to ensure implementation on and monitoring of environment safeguards and other conditions stipulated by statutory authorities. The Environmental Management Cell / Unit shall directly report to the Chief Executive of the organization and shall work as a focal point for internalizing environmental issued. These Cells also coordinate the exercise of environmental audit and preparation of environmental statements.

3.23 The Environmental audit shall be carryout yearly, if applicable. The environmental statements pertaining to the previous year shall be submitting to this State Board latest by 30th September every year.

3.24 Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is at least 1000 trees per acre of land and a green belt of 5 meters width is developed.

3.25 In case of change of ownership / management the name and address of the new ownership / partners/ directors/ proprietor should immediately be intimate to the Board. Also any change in equipment or working conditions as mentioned in the consents form / order should immediately be intimated to this Board.

3.26 The Board reserves the right to review and/or revoke the consent and / or make modifications in the conditions which it seems fit in accordance with provisions of Water Act - 1974.

4.CONDITIONS UNDER THE AIR ACT:

SPECIFIC CONDITION

1. Unit shall operate only one boiler (i.e. NG based Boiler Maxima GT-5310 (Cap 10 TPH) OR Furnace Oil based Boiler IAC GT-4423 (Cap 10 TPH)) at a same time.

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4.1 Unit shall use fuel as specified in this consent and the flue gas emission through stack shall conform to the following standards:

Sr. No.	Stack ID / Stack attached to	Capacity / Remarks	Name of Fuel	Quantity of Fuel	Air Pollution Control Measure (APCM)	Stack Height in Mt. (From G.L.)	Parameter	Perm. limit	Unit
1	95313 - Boiler	Common stack of Boiler Maxima GT-5310(Cap 10 TPH) & Boiler IAC GT-4423 (Cap 10 TPH)	NATURAL GAS	NG- 9000 M3/hr OR FO - 625 Lit/hr	Not Applicable	32	PM SO2 NOX	150 100 50	mg/Nm³ PPM PPM
2	8826 - D.G. Sets	D.G. Set Cap. 1250 KVA	H.S.D	90 Lit/hr	Not Applicable	9	PM SO2 NOX	150 100 50	mg/Nm³ PPM PPM
3	44916 - Incinerator	Incinerator for waste gases with APCM as Water + Alkali scrubber (Dhal chamber)	NOT USED/ N.A		Alkali Scrubber, Water Scrubber	45	Parameter as Mentioned Below		
4	60699 - Boiler	Boiler (Model – Tejaswee – Cap. : 18 TPH)	AGRO WASTE /BRIQUETTES	Bagasse/ Groundnut shell/ Briquettes: 2970 kg/hr	Dust Collector, Bag Filter	40	PM SO2 NOX	150 100 50	mg/Nm³ PPM PPM

• Treated flue gas emissions discharge through stack of Incinerator to atmosphere shall always be less than or equal to the following parameter-specific emission standards:

Parameter	Emission Standard	Sampling Duration
Cd + Th + their compounds	0.05 mg/Nm3	Sampling time anywhere between 30 minutes and 8 hours.
CO	100 mg/Nm3	30 Minutes
CO	50 mg/Nm3	Standard refers to daily average value
HCl	50 mg/Nm3	30 Minutes
HF	4 mg/Nm3	30 Minutes
Hg and its compounds	0.05 mg/Nm3	Sampling time anywhere between 30 minutes and 8 hours.
NOX (NO and NO2 expressed as NO2)	400 mg/Nm3	30 Minutes
Particulates	50 mg/Nm3	30 Minutes
Sb + As + Pb + Cr + Co + Cu + Mn + Ni + V + their compounds	0.5 mg/Nm3	Sampling time anywhere between 30 minutes and 8 hours.
SO2	200 mg/Nm3	30 Minutes
Total dioxins and furans	0.1 ng TEQ/Nm3	6-8 hours sampling. Please refer guidelines for 17 concerned congeners for toxic equivalence values to arrive at total toxic equivalence.
Total Organic Carbon	20 mg/Nm3	30 Minutes

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

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

Sr. No	Stack ID / Stack attached to	Name of Process / Plant	Air Pollution Control Measure (APCM)	Stack Height in Mt. (From, G.L.)	Parameter & Permissible limit
1	44914 - Reaction Vessels	Stack attached to reactor of TMP plant	Alkali Scrubber, Water Scrubber	15	Ammonia-175 mg/Nm³
2	8828 - Reaction Vessels	Stack attached to Sulphur Furnace	Alkali Scrubber, Water Scrubber	45	PM-150 mg/Nm³ SO2-40 mg/Nm³ NOX-25 mg/Nm³ HCL-20 mg/Nm³ Chlorine-09 mg/Nm³ H2S-45 mg/Nm³ CO-150 mg/Nm³
3	44915 - Reaction Vessels	Stack attached to reactor of PCL3 plant	Alkali Scrubber	15	HCL-20 mg/Nm³ Chlorine-09 mg/Nm³
4	93982 - Reaction Vessels	Stack attached to Emergency Vent of PCl3	Alkali Scrubber	15	HCL-20 mg/Nm³ Chlorine-09 mg/Nm³

4.3 The concentration of the following parameters in the ambient air within the premises of the unit shall not exceed the limits specified hereunder.

Sr. No.	Parameters	Permissible Limit (microgram /m3)	
		Annual	24 Hours Average
1.	Particulate Matter (PM10)	60	100
2.	Particulate Matter (PM2.5)	40	60
3.	Oxides of Sulphur (SO_x)	50	80
4.	Oxides of Nitrogen (NO_x)	40	80

a. Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

b. 24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

4.4 Unit shall operate industrial plant / air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the standards specified as above.

4.5 The consent to operate the industrial plant shall lapse if at any time the parameters of the gaseous emission are not within the tolerance limits specified as above.

4.6 Unit shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection to / and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2 , etc. and these shall be painted / displayed to facilitate identification.

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4.7 Unit shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB(a) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6 a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.

4.8 All efforts shall be made to control VOC emissions and odor problem, if any.

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

5.1 Number of authorization: AWH-86147 **date of Issue** 23/05/2017 .

5.2 **M/s.** Cheminova India Ltd(Intermediate Div) is granted an authorization to operate facility for following hazardous wastes on the situated at **PLOT NO:** 27,28 **GIDC ESTATE** Panoli **DIST:** Bharuch.

Sr	Name of Hazardous Waste	Sch	Catg.	Qty MT/ Year	Facility	Mode of Disposal & Remarks
1	Process wastes or residues	I	29.1	12821.00	Co-Processing,Collection,Incineration,Disposal,Storage,Transportation	Disposal at common Incineration facilities at BEIL / SEPPL/ GSPL Palsana / RSPL/ Co-processing to cement industry
2	Process wastes or residues	I	29.1	9259.00	Co-Processing,Collection,Incineration,Disposal,Storage,Transportation	Solid Waste / Evaporation Salt - Disposal to common TSDF facility of BEIL / SEPPL/ GSPL Palsana / RSPL/ Co-processing to cement industry
3	Empty barrels/containers/ liners contaminated with hazardous chemicals /wastes	I	33.1	1943.00	Collection,Decontamination,Generation,Disposal,Reuse,Storage,Transportation	Disposal by send it to authorised recycler after decontamination within premises or reuse or send back to supplier or send to common TSDF facility of BEIL / SEPPL
4	Chemical sludge from waste water treatment	I	35.3	1800.00	Collection,Disposal,Treatment,Storage,Transportation	Disposal to common TSDF facility of BEIL / SEPPL
5	Used or Spent Oil	I	5.1	11.04	Collection,Disposal,Reuse,Storage,Transportation	Disposal by Reuse in plant & machinery as lubricant or sell it to authorized re-refiners / recycler.
6	Total Sulphur	II	B37	4320.00	Collection,Disposal,Treatment,Storage,Transportation	Recovered Sulphur: Disposal to common TSDF facility of BEIL / SEPPL

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

5.4 The authorization shall be in force for a period up to 04/03/2022.

5.5 The authorization is subject to the conditions stated below and such other conditions as may be specified in the rules from time to time under the Environment (Protection) Act - 1986.

6 TERMS AND CONDITIONS OF AUTHORISATION:

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

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

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

6.4 Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.

6.5 The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.

6.6 The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"

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

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

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

6.10 The hazardous and other waste which gets generated during recycling or reuse or recovery or pre - processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.

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

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

6.13 Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.

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

6.15 Unit shall have to display the relevant information with regard to hazardous waste as indicated in the Court's order in W.P. No. 657 of 1995 dated 14th October 2003.

For and on behalf of
GUJARAT POLLUTION CONTROL BOARD

D.M. Thaker 16/6

D. M. Thaker, Unit Head

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By R.P.A.D.

Consent to Establish (NOC) - Amendment
CTE AMENDMENT NO: CTE - 98963

NO: GPCB/ANK/CCA-115(12)/ID-15016/ **DT: 30/03/2019**

To,
M/S. CHEMINOVA INDIA LTD.,
PLOT NO:27,28,
GIDC ESTATE PANOLI,
DIST-BHARUCH.

SUB: Amendment in Consent to Establish (NOC) under Section 25 of Water Act 1974 and Section 21 of Air Act 1981.

REF: (1) Your NOC application No. 144183 dated **05/12/2018(for CTE - Change in Product mix).**
(2) CCA No. AWH - 86147 dated :16/06/2017.
(3) CCA Amendment No. AWH -94667 dated:31/08/2018.

Sir,

Without prejudice to the powers of this Board under the Water (Prevention and Control of Pollution) Act-1974, the Air (Prevention and Control of Pollution) 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 (NOC)** for **Change in Product Mix** in an industrial plant/activities at **PLOT NO:27,28, GIDC ESTATE PANOLI, DIST: BHARUCH** to manufacture the following products. The Validity of this order will be up to **23/01/2024.**

1. **The list of proposed products to be manufactured shall be as follows:**

Sr. No.	Products	Quantity (MT/Annum)			Remarks
		Existing	Proposed	Total (After Change in Product Mix)	
1.	Phosphorus Trichloride (PCl3)/ Phosphoryl chloride (POCl3)	1000	-	1000	No change
2.	Tri methyl Phosphite (TMP) or Tri ethyl Phosphite (TEP)	100	-	100	No change
3.	Diethyl Thio Phosphoryl Chloride (DETPC) /Sodium salt of Diethyl Thio Phosphoryl Chloride (Na-DETA)	5330	-	5330	No change

Outward No: 500530 Date: 30/03/2019

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4.	Cyhalothrin Acid	250	-	250	No change
5.	Phosphorus Penta Sulphide (P2S5)	3400	-	3400	No change
6.	Fluindapyr (F 9990)	-	+150	150	New Product
7.	Bixlozone (F9600)	-	+960	960	New Product
8.	Acid based products [2-bromobutyric Acid (int), amino acid (int), ethyl 2-(4-hydroxy phenoxy) propionate (O-HPPA) (int), Thiocyclam (I), Bispyribac-Sodium (H), Pyrithiobac-Sodium(H), Methoxy Amine Hydrochloride (int), 2- hydroxyphenyl Acetic Acid (HPAA) (int)] etc.	150	-	150	No change
9.	Amide group based products [Pretilachlor (H), Captan (F), Cymoxanil (F), Beflubutamide (H), Pethoxamide (H), Carboxin (F), Flubendamide (I), Chlorantraniliprole (I), Thiaflusamide (F), Zoxamide (F), Flufenacet (H), 2 Aminosulfonyl-N-N-Dimethylnicotinamide (SNA) (int), 2-(Methoxycarbonyl) thiophene thiophene-3 Sulfonamide (MST) (Int)] etc.	150	-	150	No change
10.	Aniline group Bases products [Pendirnethalin (H), Fluazinam (F), Metalaxyl (F), Famoxadone (F)] etc.	1200	- 1200	0	Discontinue Product
11.	Azine group based product Fenpyroximate (I), Metribuzin (H), Pymetrozine (I), Arnitraz (I), Indoxacarb (I), Clofentezine (I), 2 Methoxy- 4 - Methyl-6-Methylamino-1,3,5-Triazine (MMMT) (Int)] etc.	300	-	300	No change
12.	Azole group based	200	-	200	No change

Outward No:500530 Dt:

GPCB

GUJARAT POLLUTION CONTROL BOARD
PARYAVARAN BHAVAN
Sector-10-A, **Gandhinagar** 382 010
Phone : (079) 23222425
(079) 23232152
Fax : (079) 23232156
Website : www.gpcb.gov.in

	products [Fipronil (I), Hexaconazole (F), Propiconazole (F), Difenoconazole (F), Tricydazole (F), Myclobutanil (F), Florasulam (H), Tebuconazole (F), Flusilazole (F), Tebuconazole (F), Tridemefon, Paclobutrazol (F), Thiamethoxam (I), Flutriafol (F), (Safener Isoxadifen ethyl (Int), Irnidacloprid (I), 2, 6 DiChloro Benzoxazolone (Int), Penoxasulam (H)] etc.				
13.	Carbamate group based product [Thiodicarb (I), Propineb (F), Metiram (F), Thiram (F), Cartap hydrochloride (I), Thiophanate Methyl (F)] etc.	500	-	500	No change
14.	Ester group based products [Fenoxaprop-p-Et (H), Clodinafop-Pr (H), Quizolfop-p-ethyl (H), Quinzolfop-p-terfuryl (H),Cyhalofop (H), Isoprothiolane (F), Alphamethrin (I), Lambda Cyhaothrin (I), Cypermethrin (I), Bifenazate (I), Phthalide (Int) etc.	300	-	300	No change
15.	Ether group based products [Propargite (I), oxyfluorfen (H), S- Cyano MPB (Int), 2 Ethoxy Ethyl Amine (Int)] etc.	200	-	200	No change
16.	Ketone group based product [Mesotrione (H), Suctioned (H), Isoxanutole (H), Dimethomorph (F), Isobutyrophenone (IBP) (Int)] etc.	1200	-	1200	No change

Outward No:500530

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

17.	Phosphate group based product [Chlorpyrifos (I) or its intermidiate Na-TCP (Int), Acephate (I), Monocrotophos (I) or its intermediates MCMMAA (Int.), Dimethoate (I), Profenofos (I), Ethephon (PGR)] etc.	5000	-	5000	No change
18.	Pyridine group based product [Pyridalyl (I), Imazethapyr (H) Cloquintocct Mexyl (H), Acetamiprid (I), 4, 6-DiChloro Pyridine (Int)], Azoxvstrobin (F) etc	250	-	250	No change
19.	Urea group based product [Buprofezin (I), Lufenuron (I), Linuron (H), Diafenthiuron (I), Diuron (H), Novaluron (I), Chlorimuron (int), Hexythiazox (I), Spiromesifen (I), Azimsulfuron (H) ,Sulfonyl Ureas (H)] etc.	100	-	100	No change
20.	Phenol group based product [2- Cyanophenol (Int), 4-Fluro-3 trilluromethyl phenole (Int)] etc.	75	-	75	No change
	Total	**19705**	**-90**	**19615**	

2. SPECIFIC CONDITIONS:

a. **Total production shall not exceed 19615 MT/Annum in any case.**
b. **There shall be no change in mode of disposal of wastewater.**
c. **There shall be no change in fuel consumption, flue gas emission and process gas emission.**
d. **There shall be no change in Hazardous waste quantity / category.**
e. **Unit shall sell out their hazardous waste to authorized end-users who is having authorization with valid CCA and rule 9 permission to receive this waste. Unit shall make MoU with such authorized end-users and submit MoU at time of application of CCA.**
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.**

Outward No:50853 Date:20/07/2018

GPCB

GUJARAT POLLUTION CONTROL BOARD
PARYAVARAN BHAVAN
Sector-10-A, **Gandhinagar** 382 010
Phone : (079) 23222425
(079) 23232152
Fax : (079) 23232156
Website : www.gpcb.gov.in

h. **There shall not be increase in pollution load due to proposed change in product mix.**
i. **There shall not be any change in plant building, equipments & machineries to manufacture the proposed new products after change in product mix.**
j. **In the case of submission of the false or misleading data, this CTE amendment will be forfeited immediately.**

3. **CONDITION UNDER THE WATER ACT:**

3.1 The condition No. 3.3 for Water Consumption under Water Act of the CCA order No: **AWH-86147, issued vide letter no. GPCB/ ANK/CCA-115(9)/ID-15016/415086, dated 16/06/2017 and further amended dated 31/08/2018** is amended and shall now be read as under.

a. Domestic: 25 KL/Day (Existing 25 KLD + Proposed Nil)
b. Industrial: 423 KL/Day (Existing 429 KLD - Proposed 6)
c. Gardening: 25 KL/Day (Existing 25 KLD + Proposed Nil)
Total: 473 KL/Day (Existing 479 KLD - Proposed 6 KLD)

3.2 The condition No. 3.1 & 3.2 for Wastewater Generation under Water Act of the CCA order No: **AWH-86147, issued vide letter no. GPCB/ ANK/CCA-115(9)/ID-15016/415086, dated 16/06/2017 and further amended dated 31/08/2018** is amended and shall now be read as under.

a. Domestic: 25 KL/Day (Existing 25 KLD + Proposed Nil)
b. Industrial: 176 KL/Day (Existing 181 KLD - Proposed 5 KLD)
Total: 201 KL/Day (Existing 206 KLD - Proposed 5 KLD)

3.3 176 KLD treated effluent shall be discharged to NCTL by underground drainage line and 25 KLD domestic sewage shall be disposed off through septic tank/soak pit system as per previous CCA conditions.

4. **All other Conditions of CCA order No: AWH-86147, issued vide letter no. GPCB/ ANK/CCA-115(9)/ID-15016/415086, dated 16/06/2017 and further amended dated 31/08/2018 shall remain unchanged.**

For and on behalf of
GUJARAT POLLUTION CONTROL BOARD

(A.V.SHAH)
SR. ENVIRONMENT ENGINEER

Outward No:500530,30/03/2019

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EC to CTE

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. - 15016)

To,
M/s. Cheminova India Ltd(Intermediate Div),
27,28, , ,
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. 176068 dated 07/05/2020

(1) Environment Clearance issued by Central Authority vide their letter no. IA-J-11011/53/2018-IA-II(I) Dated 31/12/2019

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:5866, 04/06/2020

- This order is issued to **27,28, , , City : Panoli, Dist : Ankleshwar, Taluka : Ankleshwar (15016)** for CTE amendment after obtaining EC.

Printed On : 03/06/2020 Page 1 of 1 GPCB ID : 15016

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:15866,04/06/2020

Annexure 4 -ANNUAL RETURN- FORM- 4 (2020-2021)

FMC | An Agricultural Sciences Company

Cheminova India Limited
Intermediate Division
(27+28)/A, GIDC Estate,
Panoli - 394 116
Dist. Bharuch (Gujarat)
India.
cheminova.panoli@fmc.com
Phone : 02646 - 618500/01/02/03
Mo. : +91 97252 02658
fmc.com / fmc.in
CIN NO. U24100MH1986PLC038627

Date – 5Th June 2021

Ref No. CHEMINOVA/INTER/06/05/2021/01 **PCB ID -15016**

To
Member Secretory
GUJARAT POLLUTION CONTROL BOARD
PARYAVARAN BHAWAN
SECTOR 10 –A, GANDHINAGAR – 382043.

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 -2020 to March 2021 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 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

RECEIVED
Gujarat Pollution Control Board,
R.O. Ankleshwar
Date : 5/6/21

Encl: As above

CC: Regional Office, Ankleshwar.

Enc. Form -4

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

Year -2020-21 PCB ID- 15016

PART-A

		Hazardous waste generation	Category	Quantity Generated (in MT)
1	Total Quantity of Category wise waste generated category wise	1. Chemical sludge from wastewater treatment (ETP Sludge)	35.3	1234.000
		2. Used or spent oil	5.1	0.950
		3. Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes (a) Non-Recyclable Plastic / Contaminated liners, bags (b) Insulation waste (c) Asbestos sheet (d) Discarded containers/Drum/ packing etc	33.1	22.535 4.620 6.860 92.195 Total Qty.= 126.21
		4. Process waste or Residue (a) For Incineration (b) For Co-process	29.1 29.1	524.000
		5. Process waste or Residue (Solid waste / Evaporation Salt)	29.1	Nil
		6. Total Sulphur	B37	14.000
		7. Battery		183 Nos. Total weight of all batt. –2.089 MT

CHEMINOVA INDIA LIMITED PANOLI

Year -2020-21 PCB ID- 15016

PART-A

		Hazardous waste	Category	To Disposal Facility TSDF/CHWIF (in MT)	To Recycler/Co-processors (in MT)	To Others/ Recycler (in MT)	Remarks (Details enclose as)
2	Total Quantity of Category wise waste Disposed	1. Chemical sludge from wastewater treatment (ETP Sludge)	35.3	1147.975	Nil	Nil	ANNEXURE- A
		2. Used or spent oil	5.1	Nil	0.950	Nil	ANNEXURE- B
		3. Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes (a) Non-Recyclable Plastic / Contaminated liners, bags (b) Insulation waste (c) Asbestos sheet (d) Discarded containers/Drum/ liner	33.1	21.395 4.620 6.860 Total Qty.=32.875		92.195	ANNEXURE- C
		4. Process waste or Residue (a) For Incineration (b) For Co-process	29.1 29.1	(a) 314.425	(b) 206.430	Nil	ANNEXURE- D
		5. Process waste or Residue (Solid waste / Evaporation Salt)	29.1	Nil	Nil	Nil	Nil
		6. Total Sulphur	B37	11.615	Nil	Nil	ANNEXURE- E
		7. Battery		Nil	Nil	183 Nos. Total weight of all batt. – 2.089 MT	ANNEXURE- F

3	Quantity utilized in-house	NIL

CHEMINOVA INDIA LIMITED PANOLI

Year -2020-21 PCB ID- 15016

PART-A

		Hazardous waste	Category	Quantity (in MT)
4	Total Quantity of Category wise waste storage at the end of the year	1. Chemical sludge from waste water treatment (ETP Sludge)	35.3	105.715
		2. Used or spent oil	5.1	Nil
		3. Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes (e) Non-Recyclable Plastic / Contaminated liners, bags (f) Insulation waste (g) Asbestos sheet (h) Discarded containers/Drum/ liner	33.1	2.135 Nil Nil Nil Total Qty.= 2.135
		4. Process waste or Residue (c) For Incineration (d) For Co-process	29.1 29.1	15.757
		5. Process waste or Residue (Solid waste / Evaporation Salt)	29.1	Nil
		6. Total Sulphur	B37	8.385
		7. Battery		Nil

CHEMINOVA INDIA LIMITED PANOLI

PCB ID- 15016

PART-A

HAZARDOUS WASTE DISPOSAL DETAILS

ANNEXURE- A

(1) Chemical sludge from wastewater treatment (ETP Sludge) Cat- 35.3

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Apr-20	7-Apr-20	1058690	24.000	Detox
	14-Apr-20	1059977	19.325	Detox
	22-Apr-20	1062042	26.145	Detox
May-20	2-May-20	1065758	24.04	Detox
	9-May-20	1068717	18.535	Detox
	15-May-20	1071406	20.775	Detox
	25-May-20	1076813	23.48	Detox
Jun-20	1-Jun-20	1081369	22.685	Detox
	5-Jun-20	1083627	19.24	Detox
	8-Jun-20	1084976	24.15	Detox
	11-Jun-20	1086736	20.02	Detox
Sep-20	25-Sep-20	1138488	23.73	Detox
	25-Sep-20	1138481	24.41	Detox
Oct-20	03-Oct-20	1143627	22.820	Detox
	03-Oct-20	1143677	22.130	Detox
	03-Oct-20	1143722	25.390	Detox
	08-Oct-20	1147063	34.770	Detox
	10-Oct-20	1148527	22.935	Detox
	13-Oct-20	1150831	33.870	Detox
	14-Oct-20	1151656	23.510	Detox
	17-Oct-20	1154304	26.585	Detox
	26-Oct-20	1161129	29.090	Detox
Nov-20	05-Nov-20	1170277	25.555	Detox
	10-Nov-20	1174325	22.67	Detox
	11-Nov-20	1175217	25.605	Detox
	19-Nov-20	1178911	23.4	Detox
	21-Nov-20	1180403	28.175	Detox
Dec-20	7-Dec-20	1193866	20.970	Detox
	8-Dec-20	1194767	19.255	Detox
	17-Dec-20	1201368	25.450	Detox
	18-Dec-20	1202156	23.740	Detox
	24-Dec-20	1207469	24.205	Detox
Jan-21	6-Jan-21	1218365	25.120	Detox
	7-Jan-21	1219239	25.640	Detox
	9-Jan-21	1221422	21.595	Detox
	26-Jan-21	1234425	19.810	Detox
	30-Jan-21	1238172	23.155	Detox
Feb-21	5-Feb-21	1243646	23.265	Detox
	11-Feb-21	1249787	23.235	Detox
	13-Feb-21	1251825	20.23	BEIL
	15-Feb-21	1253323	25.81	Detox
	17-Feb-21	1255442	22.225	Detox
	23-Feb-21	1261301	20.08	Detox

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CHEMINOVA INDIA LIMITED PANOLI

PCB ID- 15016

PART-A

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Mar-21	8-Mar-21	1272061	12.23	BEIL
	8-Mar-21	1272062	13.43	BEIL
	12-Mar-21	1275505	14.535	BEIL
	12-Mar-21	1275614	13.57	BEIL
	24-Mar-21	1285602	12.85	BEIL
	24-Mar-21	1285567	13.6	BEIL
	28-Mar-21	1289195	16.335	BEIL
	28-Mar-21	1289171	15.905	BEIL
	31-Mar-21	1290487	14.695	BEIL
	TOTAL QUANTITY (In MT)		**1147.975**	

ANNEXURE- B

(2) Used or spent oil Cat-5.1

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to Refiners
Feb-21	18-Feb-21	1256329	0.950	ABC Organic & Chemicals
	TOTAL QUANTITY (In MT)		0.950	

ANNEXURE- C

(3) Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes Cat -33.1
(a) Non-Recyclable Plastic /Contaminated liners, bags (**Land Filling)**

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Apr-20	12-Apr-20	1059529	1.46	BEIL
Oct-20	13-Oct-20	1151032	1.245	BEIL
	15-Oct-20	1152810	1.675	BEIL
	19-Oct-20	1155588	2.225	BEIL
	20-Oct-20	1156103	1.965	BEIL
	23-Oct-20	1158934	1.335	BEIL
	28-Oct-20	1162484	1.635	BEIL
Nov-20	18-Nov-20	1178238	1.255	BEIL
	23-Nov-20	1181721	0.73	BEIL
Feb-21	9-Feb-21	1247604	1.56	BEIL
	9-Feb-21	1247586	1.41	BEIL
	12-Feb-21	1250919	1.395	BEIL
Mar-21	4-Mar-21	1269016	1.4	BEIL
	22-Mar-21	1283862	1.23	BEIL
	31-Mar-21	12900692	0.875	BEIL
	Sub TOTAL QUANTITY (In MT)		**21.395**	

CHEMINOVA INDIA LIMITED PANOLI

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PCB ID- 15016

PART-A

(3) Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes Cat -33.1
(b)Insulation waste (Land Filling)

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Oct-20	22-Oct-20	1158010	1.435	BEIL
	24-Oct-20	1159753	0.900	BEIL
Nov-20	03-Nov-20	1168315	0.770	BEIL
Feb-21	13-Feb-21	1251909	0.825	BEIL
Mar-21	4-Mar-21	1269062	0.690	BEIL
	TOTAL QUANTITY (In MT)		4.620	

(3) Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes Cat -33.1
(c) Asbestos sheet (Land Filling)

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Feb-21	23-Feb-21	1261356	2.510	BEIL
	23-Feb-21	1261095	2.550	BEIL
Mar-21	2-Mar-21	1267633	1.800	BEIL
	TOTAL QUANTITY (In MT)		6.860	

(3) Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes Cat -33.1
(d) Empty Container , Drums/Bag / Liner -

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Jun-20	11-Jun-20	1086669	1.175	Anas Green
	13-Jun-20	1087740	1.170	Anas Green
	23-Jun-20	1092286	1.160	Anas Green
Jul-20	9-Jul-20	1099839	1.160	Anas Green
	28-Jul-20	1109159	1.180	Anas Green
Aug-20	14-Aug-20	1117181	1.095	Anas Green
	19-Aug-20	1119273	1.165	Anas Green
Sep-20	3-Sep-20	1126386	1.180	Anas Green
	5-Sep-20	1127452	1.175	Anas Green
	7-Sep-20	1128328	1.160	Anas Green
	22-Sep-20	1136715	1.070	Anas Green
	26-Sep-20	1139033	1.060	Anas Green
	28-Sep-20	1139906	1.200	Anas Green
Oct-20	16-Oct-20	1153423	1.135	Anas Green
	21-Oct-20	1157122	1.105	Anas Green
Dec-20	12-Dec-20	1197885	5.100	Anas Green
	23-Dec-20	1206514	2.540	BBS
	23-Dec-20	1206508	0.955	BBS
	24-Dec-20	1207337	1.335	BBS
	24-Dec-20	1207490	1.320	BBS
	24-Dec-20	1207487	2.585	BBS
	25-Dec-20	1208321	2.390	BBS
	25-Dec-20	1208316	2.405	BBS

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CHEMINOVA INDIA LIMITED PANOLI

PCB ID- 15016

PART-A

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
	28-Dec-20	1210745	2.395	BBS
	28-Dec-20	1210752	2.445	BBS
Jan-21	4-Jan-21	1216535	1.320	BBS
	4-Jan-21	1216538	1.190	BBS
	5-Jan-21	1217315	1.345	BBS
	5-Jan-21	1217311	1.330	BBS
	6-Jan-21	1218339	1.325	BBS
	6-Jan-21	1218342	2.550	BBS
	8-Jan-21	1220343	0.890	BBS
	9-Jan-21	1221107	0.825	BBS
	12-Jan-21	1223217	2.530	BBS
	13-Jan-21	1224427	1.350	BBS
	18-Jan-21	1227312	1.340	BBS
	20-Jan-21	1229546	2.220	BBS
	21-Jan-21	1230368	0.845	BBS
	23-Jan-21	1232268	1.355	BBS
	25-Jan-21	1233509	1.500	BBS
Feb-21	3-Feb-21	1241758	2.675	BBS
	3-Feb-21	1241761	0.920	BBS
	9-Feb-21	1247422	1.330	BBS
	15-Feb-21	1253223	2.480	BBS
	17-Feb-21	1255246	1.310	BBS
	17-Feb-21	1255237	2.170	BBS
Mar-21	1-Mar-21	1266421	1.335	BBS
	1-Mar-21	1266616	1.335	BBS
	2-Mar-21	1267424	2.605	BBS
	6-Mar-21	1270819	1.395	BBS
	12-Mar-21	1275754	2.825	BBS
	15-Mar-21	1277949	1.380	BBS
	17-Mar-21	1279879	1.145	BBS
	22-Mar-21	1283883	1.905	BBS
	23-Mar-21	1285056	1.325	BBS
	27-Mar-21	1288579	2.035	BBS
	27-Mar-21	1288585	1.450	BBS
	TOTAL QUANTITY (In MT)		**92.195**	

CHEMINOVA INDIA LIMITED PANOLI

8

PCB ID- 15016

PART-A

ANNEXURE-D

4 Process waste or Residue Cat -29.1

(a) For Incineration

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
May-20	1-May-20	1065401	7.740	BEIL
	28-May-20	1078899	9.910	BEIL
Jun-20	12-Jun-20	1087551	8.725	BEIL
Jul-20	11-Jul-20	1100881	9.675	BEIL
Aug-20	1-Aug-20	1111589	10.135	BEIL
	10-Aug-20	1115572	11.520	BEIL
	18-Aug-20	1118784	10.440	BEIL
	26-Aug-20	1122684	10.315	BEIL
	31-Aug-20	1124810	10.495	BEIL
Sep-20	10-Sep-20	1130502	10.865	BEIL
	18-Sep-20	1134886	10.970	BEIL
	28-Sep-20	1140309	10.035	BEIL
Oct-20	14-Oct-20	1151394	9.165	BEIL
Nov-20	19-Nov-20	1179082	9.860	BEIL
Dec-20	15-Dec-20	1199573	10.260	BEIL
	16-Dec-20	1200339	10.835	BEIL
	17-Dec-20	1201189	9.830	BEIL
	23-Dec-20	1206469	11.425	SEPPL
	24-Dec-20	1207907	9.780	SEPPL
	26-Dec-20	1209780	11.330	SEPPL
	29-Dec-20	1212160	9.030	SEPPL
Jan-21	11-Jan-21	1222199	11.835	SEPPL
	15-Jan-21	1225436	11.970	SEPPL
	22-Jan-21	1231721	11.485	SEPPL
	29-Jan-21	1237513	10.480	SEPPL
Feb-21	13-Feb-21	1251884	11.785	SEPPL
	17-Feb-21	1255216	9.100	SEPPL
Mar-21	1-Mar-21	1266256	11.095	SEPPL
	6-Mar-21	1271352	11.370	SEPPL
	17-Mar-21	1280138	0.790	SEPPL
	30-Mar-21	1290102	12.175	BEIL
	TOTAL QUANTITY (In MT)		314.425	

CHEMINOVA INDIA LIMITED PANOLI

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PART-A

5 Process waste or Residue Cat -29.1

(b) For Co-processing

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Jun-20	26-Jun-20	1094059	10.125	RSPL
	29-Jun-20	1095209	8.115	RSPL
Jul-20	8-Jul-20	1099290	17.545	RSPL
	25-Jul-20	1107562	20.105	RSPL
Aug-20	6-Aug-20	1113465	11.700	RSPL
	29-Aug-20	1124187	8.260	RSPL
Sep-20	16-Sep-20	1133769	8.310	RSPL
	16-Sep-20	1134039	20.835	RSPL
	28-Sep-20	1140204	26.280	RSPL
Oct-20	03-Oct-20	1143437	9.035	RSPL
Nov-20	05-Nov-20	1170435	3.960	RSPL
Dec-20	8-Dec-20	1194963	8.420	RSPL
	21-Dec-20	1204822	8.960	RSPL
Jan-21	21-Jan-21	1230728	8.870	RSPL
	25-Jan-21	1233528	3.100	RSPL
	27-Jan-21	1235377	4.315	RSPL
Feb-21	4-Feb-21	1243254	8.155	RSPL
	18-Feb-21	1256502	8.385	RSPL
Mar-21	2-Mar-21	1267618	3.220	RSPL
	12-Mar-21	1275745	8.735	RSPL
	TOTAL QUANTITY (In MT)		206.430	

ANNEXURE-E

6 **Recovered Sulphur Cat -B-37**

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	Disposed to
Apr-20	10-Apr-20	1059214	11.615	BEIL
	TOTAL QUANTITY (In MT)		11.615	

ANNEXURE-F

7 **Used battery**

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	Disposed to
Oct-20	26-Oct -20	176881279	183 Nos. Total weight of all batt. – 2.089 MT	Green power solution
	TOTAL QUANTITY (In MT)		2.089 MT	

CHEMINOVA INDIA LIMITED PANOLI

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Year -2020-21 PCB ID- 15016

PART-A
DETAILS OF BYPRODUCT (HAZARDOUS WASTE DISPOSED /TO END USERS)

		Hazardous waste generation	Category	Quantity Generated (in MT)
1	Total Quantity of Category wise waste generated category wise	Sodium Hydro sulfide 30%	-	2705.228
		Hydrochloric Acid 30%	B-15	3546.771
		Phosphoric Acid	B-15	564.095
		Sodium Bisulphite Powder	-	1161.680
		Sodium Bisulphite Solution (30%)	-	3475.329

		Hazardous waste generation	Category	Quantity Disposal (in MT)
2	Total Quantity of Category wise waste Disposed	Sodium Hydro sulfide 30%	--	2758.190
		Hydrochloric Acid 30%	B-15	3564.520
		Phosphoric Acid	B-15	566.165
		Sodium Bisulphite Powder	-	1165.560
		Sodium Bisulphite Solution (30%)	-	3501.685

		Hazardous waste generation	Category	Quantity (in MT)
3	Total Quantity of Category wise waste storage at the end of the year	Sodium Hydro sulfide 30%	-	17.018
		Hydrochloric Acid 30%	B-15	27.329
		Phosphoric Acid	B-15	65.045
		Sodium Bisulphite Powder	-	16.320
		Sodium Bisulphite Solution (30%)	-	7.299

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PART-A

ANNEXURE-F

1 Sodium Hydro sulfide 30%, Cat : Not Applicable

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
Apr-20	3-Apr-20	1058043	17.725	Saga Chemie Pvt. Ltd
	6-Apr-20	1058476	17.370	R.P.Industries
	9-Apr-20	1059107	17.840	Saga Chemie Pvt. Ltd
	13-Apr-20	1059779	18.070	Saga Chemie Pvt. Ltd
	15-Apr-20	1060260	17.335	Saga Chemie Pvt. Ltd
	20-Apr-20	1061588	18.335	Saga Chemie Pvt. Ltd
	21-Apr-20	1061809	18.155	Saga Chemie Pvt. Ltd
	23-Apr-20	1062411	18.320	R.P.Industries
	25-Apr-20	1063117	18.600	Saga Chemie Pvt. Ltd
	27-Apr-20	1063725	18.610	Saga Chemie Pvt. Ltd
	29-Apr-20	1064692	18.735	Saga Chemie Pvt. Ltd
	30-Apr-20	1065183	12.635	R.P.Industries
May-20	2-May-20	1065780	18.190	Raina Industries
	4-May-20	1066422	18.765	R.P.Industries
	5-May-20	1067029	18.355	Raina Industries
	7-May-20	1067928	18.815	Sahyog Pharmachem Industries
	11-May-20	1069484	18.990	Raina Industries
	15-May-20	1071276	18.680	R.P.Industries
	18-May-20	1072679	18.525	Raina Industries
	20-May-20	1073792	18.375	Raina Industries
	22-May-20	1075145	18.640	Raina Industries
	26-May-20	1077277	18.910	Raina Industries
	28-May-20	1078692	18.170	Raina Industries
	30-May-20	1080061	13.955	Saga Chemie Pvt. Ltd
Jun-20	2-Jun-20	1081953	8.475	Raina Industries
	5-Jun-20	1083503	12.430	R.P.Industries
	6-Jun-20	1084289	18.510	Raina Industries
	9-Jun-20	1085707	18.210	Raina Industries
	12-Jun-20	1087385	18.225	Raina Industries
	15-Jun-20	1088396	18.795	Raina Industries
	16-Jun-20	1089173	18.480	Jayvir Dye Chem
	18-Jun-20	1090299	18.745	Raina Industries
	22-Jun-20	1091989	18.620	Raina Industries
	25-Jun-20	1093538	18.550	Saga Chemie Pvt. Ltd
	26-Jun-20	1093934	18.605	Raina Industries
	29-Jun-20	1095332	18.885	Saga Chemie Pvt. Ltd
	30-Jun-20	1095845	18.455	Saga Chemie Pvt. Ltd
Jul-20	4-Jul-20	1097737	18.560	Raina Industries
	6-Jul-20	1098543	15.325	R.P.Industries
	9-Jul-20	1099953	18.545	Raina Industries
	11-Jul-20	1100867	18.475	Raina Industries
	13-Jul-20	1101609	18.605	Saga Chemie Pvt. Ltd
	15-Jul-20	1102814	18.370	Saga Chemie Pvt. Ltd
	17-Jul-20	1103672	17.615	Ohm Dye Chem
	23-Jul-20	1106574	18.710	Jayvir Dye Chem
	25-Jul-20	1107899	17.235	Raina Industries
	27-Jul-20	1108485	17.865	Raina Industries

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CHEMINOVA INDIA LIMITED PANOLI

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
	29-Jul-20	1109778	18.140	Saga Chemie Pvt. Ltd
	31-Jul-20	1110911	18.350	Raina Industries
Aug-20	1-Aug-20	1111602	18.745	Jayvir Dye Chem
	5-Aug-20	1113107	18.380	Raina Industries
	7-Aug-20	1114213	10.930	Ohm Dye Chem
	8-Aug-20	1114745	18.370	Raina Industries
	11-Aug-20	1116079	18.435	Raina Industries
	13-Aug-20	1116821	18.510	Raina Industries
	17-Aug-20	1118345	18.500	Raina Industries
	19-Aug-20	1119429	18.570	Raina Industries
	21-Aug-20	1120426	18.410	Jayvir Dye Chem
	24-Aug-20	1121597	18.245	Raina Industries
	25-Aug-20	1122171	16.005	Saga Chemie Pvt. Ltd
	26-Aug-20	1122707	15.360	Raina Industries
	28-Aug-20	1123818	17.110	Raina Industries
	31-Aug-20	1124995	18.510	Raina Industries
Sep-20	2-Sep-20	1126043	18.215	Jayvir Dye Chem
	4-Sep-20	1127079	18.355	Ohm Dye Chem
	5-Sep-20	1127693	15.955	Raina Industries
	8-Sep-20	1129033	18.645	Raina Industries
	10-Sep-20	1130510	16.115	Raina Industries
	12-Sep-20	1131604	15.840	Raina Industries
	14-Sep-20	1132549	16.690	Jayvir Dye Chem
	17-Sep-20	1134430	18.690	Raina Industries
	21-Sep-20	1136136	18.455	Raina Industries
	22-Sep-20	1136843	17.630	Jayvir Dye Chem
	25-Sep-20	1138614	18.765	Raina Industries
	26-Sep-20	1139063	18.760	Sahyog Pharmachem Industries
	29-Sep-20	1140919	18.620	Raina Industries
Oct-20	1-Oct-20	1142199	17.170	Raina Industries
	9-Oct-20	1147884	18.490	Raina Industries
	10-Oct-20	1148725	18.255	Ohm Dye Chem
	12-Oct-20	1150100	18.575	Raina Industries
	13-Oct-20	1150931	15.690	Saga Chemie Pvt. Ltd
	16-Oct-20	1153732	15.390	Raina Industries
	19-Oct-20	1155551	18.465	Raina Industries
	22-Oct-20	1156509	18.685	Sahyog Pharmachem Industries
	24-Oct-20	1159717	18.655	Raina Industries
	26-Oct-20	1161000	18.705	Raina Industries
	27-Oct-20	1162140	18.785	Raina Industries
	29-Oct-20	1163837	18.615	Ohm Dye Chem
Nov-20	9-Nov-20	1173580	18.520	Jayvir Dye Chem
	10-Nov-20	1174377	15.175	Raina Industries
	11-Nov-20	1174516	19.250	Raina Industries
	12-Nov-20	1176366	18.890	Raina Industries
	13-Nov-20	1177010	18.365	Ohm Dye Chem
	14-Nov-20	1177009	16.015	R.P.Industries
	18-Nov-20	1178018	18.740	Raina Industries
	19-Nov-20	1179262	16.715	Raina Industries
	23-Nov-20	1181781	18.560	Sahyog Pharmachem Industries

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Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
	26-Nov-20	1184421	16.730	Raina Industries
	30-Nov-20	1187540	13.215	Ohm Dye Chem
	30-Nov-20	1187545	18.625	R.P.Industries
Dec-20	4-Dec-20	1191146	18.290	R.P.Industries
	8-Dec-20	1194187	18.715	Raina Industries
	9-Dec-20	1195367	18.080	Sahyog Pharmachem Industries
	11-Dec-20	1197091	18.400	Raina Industries
	15-Dec-20	1199843	18.625	Raina Industries
	17-Dec-20	1201064	18.540	Raina Industries
	18-Dec-20	1202484	18.540	Jayvir Dye Chem
	21-Dec-20	1204691	18.640	Ohm Dye Chem
	22-Dec-20	1205754	18.545	Raina Industries
	25-Dec-20	1208305	18.720	Raina Industries
	26-Dec-20	1209524	18.800	Raina Industries
	29-Dec-20	1210758	18.690	Raina Industries
	31-Dec-20	1213276	18.570	Jayvir Dye Chem
Jan-21	2-Jan-21	1215257	18.450	R.P.Industries
	4-Jan-21	1215448	18.810	Sahyog Pharma Chem
	5-Jan-21	1217637	16.480	Saga Chemie Pvt. Ltd.
	7-Jan-21	1219185	18.630	Raina Industries
	11-Jan-21	1222597	18.270	Raina Industries
	11-Jan-21	1222636	16.150	Saga Chemie Pvt. Ltd.
	15-Jan-21	1225367	18.295	Raina Industries
	18-Jan-21	1227574	18.175	Raina Industries
	21-Jan-21	1230266	18.240	Saga Chemie Pvt. Ltd.
	21-Jan-21	1230441	16.775	Saga Chemie Pvt. Ltd.
	22-Jan-21	1231545	18.675	Raina Industries
	25-Jan-21	1233746	16.815	Saga Chemie Pvt. Ltd.
	26-Jan-21	1234140	18.840	R.P.Industries
	30-Jan-21	1238435	16.615	Saga Chemie Pvt. Ltd.
Feb-21	3-Feb-21	1242067	18.420	Sahyog Pharma Chem
	8-Feb-21	1246479	18.555	Raina Industries
	11-Feb-21	1250008	16.815	Saga Chemie Pvt. Ltd.
	12-Feb-21	1250516	18.790	Jayvir Dye Chem
	15-Feb-21	1253332	18.740	Raina Industries
	16-Feb-21	1254715	18.745	Dhruv Sales Corporation
	19-Feb-21	1257434	18.710	Dhruv Sales Corporation
	22-Feb-21	1260189	16.605	Saga Chemie Pvt. Ltd.
	23-Feb-21	1261293	18.700	R.P.Industries
	24-Feb-21	1262453	18.730	Raina Industries
	24-Feb-21	1262377	16.600	Saga Chemie Pvt. Ltd.
	25-Feb-21	1263470	18.785	Dhruv Sales Corporation
	26-Feb-21	1264367	12.465	R.P.Industries
	27-Feb-21	1265320	18.805	Jayvir Dye Chem
Mar-21	3-Mar-21	1268560	24.715	Dhruv Sales Corporation
	8-Mar-21	1272279	18.750	R.P.Industries
	8-Mar-21	1272754	23.655	Dhruv Sales Corporation
	10-Mar-21	1274153	18.620	Saga Chemie Pvt. Ltd.
	13-Mar-21	1276952	17.495	Dhruv Sales Corporation
	13-Mar-21	1276607	18.610	Jayvir Dye Chem

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Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
	20-Mar-21	1282360	16.790	R.P.Industries
	22-Mar-21	1284170	17.330	Saga Chemie Pvt. Ltd.
	22-Mar-21	1284187	18.205	Dhruv Sales Corporation
	25-Mar-21	1286942	16.855	R.P.Industries
	27-Mar-21	1288772	18.290	Raina Industries
	30-Mar-21	1289975	18.245	Raina Industries
	31-Mar-21	1290948	21.085	Dhruv Sales Corporation
	TOTAL QUANTITY (In MT)		2758.190	

ANNEXURE-G

2 Hydrochloric Acid 30% Cat: B-15

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
Apr-20	14-Apr-20	1059942	28.285	Shankus Bio-Sciences Pvt.Ltd
	15-Apr-20	1060235	26.870	Shankus Bio-Sciences Pvt.Ltd
	15-Apr-20	1060190	28.695	Shankus Bio-Sciences Pvt.Ltd
	20-Apr-20	1061512	24.780	Shankus Bio-Sciences Pvt.Ltd
	20-Apr-20	1061517	24.795	Shankus Bio-Sciences Pvt.Ltd
	21-Apr-20	1061749	22.590	Shankus Bio-Sciences Pvt.Ltd
	22-Apr-20	1062186	27.835	Shankus Bio-Sciences Pvt.Ltd
	27-Apr-20	1063869	28.445	Shreeji Industries
	30-Apr-20	1065203	26.620	Shreeji Industries
	30-Apr-20	1065213	22.345	Shankus Bio-Sciences Pvt.Ltd
May-20	5-May-20	1067043	19.250	Shreeji Industries
	7-May-20	1067937	15.460	Shreeji Industries
	9-May-20	1068799	19.770	Shreeji Industries
	10-May-20	1069040	28.950	Shreeji Industries
	10-May-20	1069141	28.940	Shreeji Industries
	14-May-20	1070998	24.785	Shreeji Industries
	19-May-20	1073481	29.170	Shreeji Industries
	21-May-20	1074592	30.190	Shreeji Industries
	23-May-20	1075755	28.695	Shreeji Industries
	25-May-20	1076817	23.315	Shankus Bio-Sciences Pvt.Ltd
Jun-20	3-Jun-20	1082589	19.445	Rahul Intermediates
	5-Jun-20	1083730	29.055	Shankus Bio-Sciences Pvt.Ltd
	6-Jun-20	1084246	19.780	Rahul Intermediates
	9-Jun-20	1085840	30.065	Shreeji Industries
	12-Jun-20	1087443	16.220	Rahul Intermediates
	13-Jun-20	1087931	28.070	Shreeji Industries
	17-Jun-20	1089566	17.725	Rahul Intermediates
	18-Jun-20	1090241	20.245	Shankus Bio-Sciences Pvt.Ltd
	23-Jun-20	1092475	23.375	Rahul Intermediates
	25-Jun-20	1093539	26.680	Shreeji Industries
	27-Jun-20	1094559	20.115	Shreeji Industries
	29-Jun-20	1095369	27.575	Shankus Bio-Sciences Pvt.Ltd
Jul-20	2-Jul-20	1096744	24.390	Shreeji Industries
	8-Jul-20	1099473	30.180	Shreeji Industries
	11-Jul-20	1100871	23.215	Shankus Bio-Sciences Pvt.Ltd
	13-Jul-20	1101788	21.900	Rahul Intermediates
	14-Jul-20	1102360	19.655	Shankus Bio-Sciences Pvt.Ltd

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Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
	16-Jul-20	1103324	22.685	Shreeji Industries
	17-Jul-20	1103862	21.075	Shreeji Industries
	20-Jul-20	1105182	28.550	Shreeji Industries
	23-Jul-20	1106825	20.250	Rahul Intermediates
	25-Jul-20	1107845	23.300	Shreeji Industries
	27-Jul-20	1108744	28.840	Shreeji Industries
	30-Jul-20	1110269	19.240	Rahul Intermediates
	31-Jul-20	1110916	23.500	Shreeji Industries
Aug-20	1-Aug-20	1111620	18.365	Shreeji Industries
	4-Aug-20	1112608	27.850	Shreeji Industries
	6-Aug-20	1113713	19.470	Rahul Intermediates
	8-Aug-20	1114667	24.640	Shreeji Industries
	11-Aug-20	1116068	18.705	Rahul Intermediates
	22-Aug-20	1120724	24.105	Shreeji Industries
	24-Aug-20	1121580	25.080	Shreeji Industries
	24-Aug-20	1121691	19.605	Shreeji Industries
	26-Aug-20	1122677	22.570	Rahul Intermediates
	29-Aug-20	1124326	24.975	Shreeji Industries
Sep-20	2-Sep-20	1126039	28.140	Shreeji Industries
	2-Sep-20	1126045	20.105	Rahul Intermediates
	7-Sep-20	112813	27.905	Shreeji Industries
	8-Sep-20	1129024	19.300	Rahul Intermediates
	10-Sep-20	1130569	24.355	Shreeji Industries
	12-Sep-20	1131675	19.645	Rahul Intermediates
	15-Sep-20	1133293	24.150	Shreeji Industries
	16-Sep-20	1133918	23.180	Shreeji Industries
	18-Sep-20	1134979	19.795	Shreeji Industries
	21-Sep-20	1136353	18.345	Rahul Intermediates
	21-Sep-20	1136306	17.945	Shankus Bio-Sciences Pvt.Ltd
	25-Sep-20	1138529	24.740	Repute Bio Tech
	26-Sep-20	1139216	24.505	Shankus Bio-Sciences Pvt.Ltd
	29-Sep-20	1140859	21.850	Rahul Intermediates
Oct-20	1-Oct-20	1140852	19.250	Shreeji Industries
	3-Oct-20	1143517	19.790	Shreeji Industries
	6-Oct-20	1145448	17.625	Shankus Bio-Sciences Pvt.Ltd
	9-Oct-20	1147898	24.340	Shankus Bio-Sciences Pvt.Ltd
	12-Oct-20	1150102	21.895	Rahul Intermediates
	14-Oct-20	1151790	23.985	Shankus Bio-Sciences Pvt.Ltd
	15-Oct-20	1152980	19.080	Shreeji Industries
	16-Oct-20	1153608	21.135	Shankus Bio-Sciences Pvt.Ltd
	19-Oct-20	1155547	24.205	Shreeji Industries
	20-Oct-20	1156358	20.050	Raina Industries
	23-Oct-20	1128874	33.720	Shreeji Industries
	26-Oct-20	1160996	19.350	Shankus Bio-Sciences Pvt.Ltd
	27-Oct-20	1161895	19.515	Rahul Intermediates
	27-Oct-20	1162067	19.690	Shreeji Industries
	30-Oct-20	1164679	28.390	Shreeji Industries
Nov-20	10-Nov-20	1174360	28.860	Shreeji Industries
	10-Nov-20	1174505	28.270	Shreeji Industries
	11-Nov-20	1175550	19.605	Rahul Intermediates

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Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
	12-Nov-20	1176295	19.035	Rahul Intermediates
	13-Nov-20	1177005	28.505	Shreeji Industries
	15-Nov-20	1177388	28.535	Shreeji Industries
	19-Nov-20	1179265	19.585	Rahul Intermediates
	19-Nov-20	1178962	19.865	Rahul Intermediates
	23-Nov-20	1181615	18.970	Rahul Intermediates
	23-Nov-20	1181808	19.905	Rahul Intermediates
	23-Nov-20	1181634	28.350	Shreeji Industries
	25-Nov-20	1183238	18.855	Rahul Intermediates
	26-Nov-20	1184631	19.190	Rahul Intermediates
	28-Nov-20	1186066	19.420	Rahul Intermediates
	28-Nov-20	1186464	25.025	Shankus Bio-Sciences Pvt.Ltd
	30-Nov-20	1188022	27.740	Shreeji Industries
Dec-20	2-Dec-20	1189558	20.465	Rahul Intermediates
	5-Dec-20	1191826	19.700	Rahul Intermediates
	7-Dec-20	1193910	24.030	Rahul Intermediates
	11-Dec-20	1196960	27.910	Shankus Bio-Sciences Pvt.Ltd
	15-Dec-20	1199533	18.815	Rahul Intermediates
	16-Dec-20	1200428	28.760	Shankus Bio-Sciences Pvt.Ltd
	17-Dec-20	1201268	19.595	Rahul Intermediates
	17-Dec-20	1201552	19.395	Rahul Intermediates
	22-Dec-20	1205811	20.000	Rahul Intermediates
	22-Dec-20	1206037	22.965	Shankus Bio-Sciences Pvt.Ltd
	23-Dec-20	1206952	23.505	Rahul Intermediates
	23-Dec-20	1206725	19.125	Rahul Intermediates
	25-Dec-20	1208696	19.765	Rahul Intermediates
	28-Dec-20	1211184	24.360	Shreeji **Industries**
	29-Dec-20	1211925	19.915	Rahul Intermediates
	31-Dec-20	1213838	19.810	Rahul Intermediates
Jan-21	4-Jan-21	1216805	19.185	Rahul Intermediates
	7-Jan-21	1219462	19.605	Rahul Intermediates
	15-Jan-21	1225692	19.295	Rahul Intermediates
	18-Jan-21	1227582	19.995	Shanku Bio-Sciences Pvt. Ltd.
	18-Jan-21	1227619	21.135	Rahul Intermediates
	20-Jan-21	1229822	25.700	Rahul Intermediates
	21-Jan-21	1230288	28.195	Shanku Bio-Sciences Pvt. Ltd.
	22-Jan-21	1231417	20.025	Rahul Intermediates
	25-Jan-21	1234143	22.875	Rahul Intermediates
	25-Jan-21	1233866	25.330	Shanku Bio-Sciences Pvt. Ltd.
	27-Jan-21	1235222	17.025	Rahul Intermediates
	29-Jan-21	1237529	19.030	Rahul Intermediates
	30-Jan-21	1238562	20.015	Rahul Intermediates
Feb-21	1-Feb-21	1240148	18.455	Rahul Intermediates
	3-Feb-21	1242061	24.730	Shreeji Industries
	5-Feb-21	1243779	26.230	Rahul Intermediates
	8-Feb-21	1246484	23.850	Shanku Bio-Sciences Pvt. Ltd.
	9-Feb-21	1247436	17.405	Rahul Intermediates
	12-Feb-21	1251064	19.315	Rahul Intermediates
	12-Feb-21	1250546	22.875	Shanku Bio-Sciences Pvt. Ltd.
	15-Feb-21	1253718	24.085	Shanku Bio-Sciences Pvt. Ltd.

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Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
	15-Feb-21	1253476	19.300	Rahul Intermediates
	19-Feb-21	1257437	23.095	Shanku Bio-Sciences Pvt. Ltd.
	22-Feb-21	1260409	19.635	Rahul Intermediates
	23-Feb-21	1261298	23.095	Rahul Intermediates
	24-Feb-21	1262458	19.715	Shanku Bio-Sciences Pvt. Ltd.
	25-Feb-21	1263476	19.425	Rahul Intermediates
Mar-21	1-Mar-21	1266415	20.280	Rahul Intermediates
	3-Mar-21	1268509	25.295	Shanku Bio-Sciences Pvt. Ltd.
	4-Mar-21	1269189	19.525	Rahul Intermediates
	8-Mar-21	1272289	19.700	Rahul Intermediates
	8-Mar-21	1272548	19.125	Rahul Intermediates
	10-Mar-21	1274596	22.395	Shanku Bio-Sciences Pvt. Ltd.
	12-Mar-21	1275765	18.680	Rahul Intermediates
	18-Mar-21	1280982	23.670	Shanku Bio-Sciences Pvt. Ltd.
	19-Mar-21	1282015	23.505	Rahul Intermediates
	23-Mar-21	1285107	19.915	Rahul Intermediates
	24-Mar-21	1286266	19.345	Rahul Intermediates
	25-Mar-21	1287113	23.625	Rahul Intermediates
	27-Mar-21	1288687	23.290	Rahul Intermediates
	30-Mar-21	1290077	23.460	Rahul Intermediates
	TOTAL QUANTITY (In MT)		**3564.520**	

3 Phosphoric Acid Cat: B-15

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
Apr-20	3-Apr-20	1058018	9.310	S.R.Chemicals
	4-Apr-20	1058154	9.140	S.R.Chemicals
	21-Apr-20	1061873	15.110	Choksey Chemicals Industries
	28-Apr-20	1064227	17.295	Choksey Chemicals Industries
May-20	8-May-20	1068228	9.030	S.R.Chemicals
	15-May-20	1071477	10.650	S.R.Chemicals
	20-May-20	1074142	15.655	Choksey Chemicals Industries
	27-May-20	1078196	9.120	S.R.Chemicals
Jun-20	6-Jun-20	1084225	10.710	S.R.Chemicals
	12-Jun-20	1087423	16.305	Choksey Chemicals Industries
	29-Jun-20	1095326	10.160	S.R.Chemicals
Jul-20	1-Jul-20	1096352	16.295	Choksey Chemicals Industries
	11-Jul-20	1100999	10.620	S.R.Chemicals
	13-Jul-20	1101677	15.775	Choksey Chemicals Industries
	20-Jul-20	1105228	16.125	S.R.Chemicals
	22-Jul-20	1106129	16.035	Choksey Chemicals Industries
Aug-20	8-Aug-20	1114791	10.270	S.R.Chemicals
	11-Aug-20	1116070	16.465	Choksey Chemicals Industries
	25-Aug-20	1122092	16.490	Choksey Chemicals Industries
Sep-20	9-Sep-20	1129904	11.310	S.R.Chemicals
	12-Sep-20	1131822	17.895	Choksey Chemicals Industries
	29-Sep-20	1140920	12.505	S.R.Chemicals
Oct-20	8-Oct-20	1145442	17.620	Choksey Chemicals Industries

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Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
	15-Oct-20	1151964	17.875	S.R.Chemicals
	23-Oct-20	1158587	17.810	S.R.Chemicals
Nov-20	18-Nov-20	1178425	19.940	S.R.Chemicals
	23-Nov-20	1181953	12.825	S.R.Chemicals
Dec-20	5-Dec-20	1192372	20.185	S.R.Chemicals
	16-Dec-20	1200263	18.130	S.R.Chemicals
	26-Dec-20	1209585	12.155	S.R.Chemicals
Jan-21	5-Jan-21	1216553	13.500	S.R. Chemicals
	15-Jan-21	1225816	20.090	S.R. Chemicals
	29-Jan-21	1237291	19.525	S.R. Chemicals
Feb-21	12-Feb-21	1251226	19.905	S.R. Chemicals
	22-Feb-21	1260387	18.550	S.R. Chemicals
Mar-21	1-Mar-21	1266628	25.920	S.R. Chemicals
	15-Mar-21	1278280	19.865	S.R. Chemicals
	TOTAL QUANTITY (In MT)		566.165	

4 Sodium Bisulphite Powder Cat: Not Applicable

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
Apr-20	11-Apr-20	1059414	13.000	Shalibhadra Intermediates
	13-Apr-20	1059797	10.000	Shalibhadra Intermediates
	20-Apr-20	1061496	5.000	Trimurti Chemicals
	22-Apr-20	1062102	10.000	Shalibhadra Intermediates
	22-Apr-20	1062077	20.000	P.G.Chemicals Industries
	24-Apr-20	1062709	8.000	Shalibhadra Intermediates
	29-Apr-20	1064732	20.000	Shalibhadra Intermediates
May-20	2-May-20	1065784	20.000	Shalibhadra Intermediates
	5-May-20	1067000	2.600	Shalibhadra Intermediates
	6-May-20	1067513	2.600	Shalibhadra Intermediates
	9-May-20	1068697	2.000	Trimurti Chemicals
	11-May-20	1069473	10.000	Navkar Chemicals
	12-May-20	1069958	14.520	Shalibhadra Intermediates
	15-May-20	1071357	1.000	Trimurti Chemicals
	18-May-20	1072832	5.000	Trimurti Chemicals
	23-May-20	1075702	10.000	Trimurti Chemicals
	25-May-20	1076494	10.000	Trimurti Chemicals
	28-May-20	1078717	2.000	Shalibhadra Intermediates
	28-May-20	1078759	5.000	Shalibhadra Intermediates
	29-May-20	1079441	5.000	Trimurti Chemicals
Jun-20	4-Jun-20	1083090	10.000	P.G.Chemicals Industries
	9-Jun-20	1085677	5.000	Lovely Chemicals
	12-Jun-20	1087380	10.000	Navkar Chemicals
	16-Jun-20	1089171	10.000	Akshar Enterprise
	19-Jun-20	1090802	7.000	Shalibhadra Intermediates
	25-Jun-20	1093478	10.000	Lovely Chemicals
	30-Jun-20	1095848	10.000	Lovely Chemicals
Jul-20	2-Jul-20	1096735	10.000	Trimurti Chemicals
	10-Jul-20	1100457	10.000	Shalibhadra Intermediates
	15-Jul-20	1102686	10.000	Navkar Chemicals

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Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
	27-Jul-20	1108477	5.000	Trimurti Chemicals
	28-Jul-20	1109355	10.000	Lovely Chemicals
	29-Jul-20	1109988	10.000	Akshar Enterprise
	30-Jul-20	1110268	5.000	Navkar Chemicals
	30-Jul-20	1110539	10.000	Trimurti Chemicals
Aug-20	8-Aug-20	1114589	6.000	Shalibhadra Intermediates
	8-Aug-20	1114590	8.480	Shalibhadra Intermediates
	21-Aug-20	1120436	10.000	P.G.Chemicals Industries
	26-Aug-20	1122700	2.000	Shalibhadra Intermediates
	31-Aug-20	1124952	10.000	Navkar Chemicals
Sep-20	10-Sep-20	1130634	10.000	Akshar Enterprise
	15-Sep-20	1133157	10.000	Lovely Chemicals
	15-Sep-20	1132658	10.000	P.G.Chemicals Industries
	17-Sep-20	1134040	10.000	Shalibhadra Intermediates
	22-Sep-20	1136776	10.000	Akshar Enterprise
	26-Sep-20	1139057	10.000	Navkar Chemicals
	28-Sep-20	1140184	20.000	Shalibhadra Intermediates
	28-Sep-20	1140180	10.000	Trimurti Chemicals
	29-Sep-20	1140849	20.000	Shalibhadra Intermediates
	30-Sep-20	1141634	20.000	Shalibhadra Intermediates
Oct-20	6-Oct-20	1145568	20.000	Shalibhadra Intermediates
	20-Oct-20	1156335	10.000	Trimurti Chemicals
	20-Oct-20	1156343	20.000	Shalibhadra Intermediates
	21-Oct-20	1157361	20.000	Shalibhadra Intermediates
	24-Oct-20	1159737	20.000	Shalibhadra Intermediates
	27-Oct-20	1161908	10.000	P.G.Chemicals Industries
	28-Oct-20	1162863	20.000	Shalibhadra Intermediates
	30-Oct-20	1164603	10.000	Navkar Chemicals
Nov-20	11-Nov-20	1175365	20.000	Shalibhadra Intermediates
	12-Nov-20	1176379	20.000	Shalibhadra Intermediates
	19-Nov-20	1179270	5.000	Trimurti Chemicals
	20-Nov-20	1179696	10.000	Navkar Chemicals
	23-Nov-20	1181799	10.000	P.G.Chemicals Industries
	24-Nov-20	1182764	20.000	Shalibhadra Intermediates
	24-Nov-20	1182752	10.000	Shalibhadra Intermediates
	26-Nov-20	1184452	10.000	Trimurti Chemicals
	28-Nov-20	1186456	5.000	Lovely Chemicals
	28-Nov-20	1186463	20.000	Shalibhadra Intermediates
Dec-20	2-Dec-20	1189630	20.000	Shalibhadra Intermediates
	5-Dec-20	1192122	12.000	Shalibhadra Intermediates
	8-Dec-20	1194921	10.000	Lovely Chemicals
	10-Dec-20	1196541	20.000	P.G.Chemicals Industries
	15-Dec-20	1199860	20.000	Shalibhadra Intermediates
	16-Dec-20	1200528	10.000	Akshar Enterprise
	21-Dec-20	1205002	16.000	Shalibhadra Intermediates
	22-Dec-20	1205824	10.000	Trimurti Chemicals
	24-Dec-20	1207351	10.000	P.G.Chemicals Industries
	25-Dec-20	1208796	10.000	Shalibhadra Intermediates
	30-Dec-20	1212771	19.000	Shalibhadra Intermediates
Jan-21	6-Jan-21	1218532	16.000	Shalibhadra Intermediates Pvt.Ltd

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Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
	12-Jan-21	1223566	10.000	Navkar Chemicals
	13-Jan-21	1224740	5.000	Shalibhadra Intermediates Pvt.Ltd
	19-Jan-21	1228723	10.000	P.G.Chemicals
	20-Jan-21	1229841	10.000	Shalibhadra Intermediates Pvt.Ltd
	23-Jan-21	1232331	10.000	Shalibhadra Intermediates Pvt.Ltd
	27-Jan-21	1235237	10.000	P.G.Chemicals
	28-Jan-21	1236341	10.000	Lovely Chemicals
	30-Jan-21	1238424	10.000	Shalibhadra Intermediates Pvt.Ltd
Feb-21	4-Feb-21	1243005	8.000	Akshar Enterprise
	10-Feb-21	1248860	5.000	Akshar Enterprise
	11-Feb-21	1249995	10.000	P.G.Chemicals
	15-Feb-21	1253338	10.000	P.G.Chemicals
	22-Feb-21	1260377	25.000	Shalibhadra Intermediates Pvt.Ltd
	23-Feb-21	1261315	10.000	Navkar Chemicals
	26-Feb-21	1264313	2.000	Shalibhadra Intermediates Pvt.Ltd
	26-Feb-21	1264269	10.000	Lovely Chemicals
Mar-21	3-Mar-21	1268556	10.000	Jay Industries
	4-Mar-21	1269216	10.000	Akshar Enterprise
	6-Mar-21	1271086	20.000	Shalibhadra Intermediates Pvt.Ltd
	10-Mar-21	1274467	10.000	Shalibhadra Intermediates Pvt.Ltd
	13-Mar-21	1276713	14.000	Shalibhadra Intermediates Pvt.Ltd
	22-Mar-21	1283874	11.000	Shalibhadra Intermediates Pvt.Ltd
	26-Mar-21	1287870	18.000	Shalibhadra Intermediates Pvt.Ltd
	31-Mar-21	1290941	10.000	Shalibhadra Intermediates Pvt.Ltd
	TOTAL QUANTITY (In MT)		**1165.560**	

5 Sodium Bisulphite Solution (30%) Cat: Not Applicable

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
Apr-20	9-Apr-20	1059050	16.905	Ohm Dye Chem
	21-Apr-20	1061745	25.225	Trimurti Chemicals
	23-Apr-20	1062406	24.320	Trimurti Chemicals
	27-Apr-20	1063744	23.745	Trimurti Chemicals
	28-Apr-20	1063952	18.935	Trimurti Chemicals
	29-Apr-20	1064662	24.580	Lovely Chemicals
	30-Apr-20	1065163	18.495	Trimurti Chemicals
May-20	2-May-20	1065776	24.575	Trimurti Chemicals
	4-May-20	1066416	24.755	Trimurti Chemicals
	6-May-20	1067263	24.695	Trimurti Chemicals
	9-May-20	1068698	24.640	Trimurti Chemicals
	11-May-20	1069480	24.385	Trimurti Chemicals
	14-May-20	1070836	24.835	Trimurti Chemicals
	15-May-20	1071468	24.930	Trimurti Chemicals
	20-May-20	1073752	24.975	Trimurti Chemicals
	22-May-20	1075139	24.730	Trimurti Chemicals
	22-May-20	1075141	15.900	Trimurti Chemicals
	23-May-20	1075716	24.965	Trimurti Chemicals
	27-May-20	1077937	24.475	Trimurti Chemicals
	29-May-20	1079440	24.075	Trimurti Chemicals

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Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
Jun-20	1-Jun-20	1081221	24.195	Trimurti Chemicals
	3-Jun-20	1082536	24.175	Trimurti Chemicals
	5-Jun-20	1083498	16.935	Trimurti Chemicals
	8-Jun-20	1084806	17.150	Trimurti Chemicals
	9-Jun-20	1085665	17.300	Trimurti Chemicals
	11-Jun-20	1086879	24.515	Trimurti Chemicals
	15-Jun-20	1088477	24.720	Trimurti Chemicals
	16-Jun-20	1089201	24.740	Trimurti Chemicals
	22-Jun-20	1091994	24.670	Trimurti Chemicals
	25-Jun-20	1093471	17.825	Ohm Dye Chem
	26-Jun-20	1094046	24.750	Trimurti Chemicals
	29-Jun-20	1095323	17.130	Trimurti Chemicals
	29-Jun-20	1095419	24.770	Trimurti Chemicals
Jul-20	1-Jul-20	1096349	24.855	Trimurti Chemicals
	2-Jul-20	1096801	24.880	Trimurti Chemicals
	6-Jul-20	1098539	24.895	Trimurti Chemicals
	7-Jul-20	1098979	21.160	Trimurti Chemicals
	9-Jul-20	1099951	24.975	Lovely Chemicals
	11-Jul-20	1100861	24.880	Trimurti Chemicals
	13-Jul-20	1101655	24.680	Trimurti Chemicals
	15-Jul-20	1102677	24.290	Trimurti Chemicals
	16-Jul-20	1103321	24.315	Trimurti Chemicals
	20-Jul-20	1105167	24.115	Trimurti Chemicals
	21-Jul-20	1105624	24.340	Trimurti Chemicals
	24-Jul-20	1107385	23.390	Trimurti Chemicals
	25-Jul-20	1107841	17.470	Trimurti Chemicals
	27-Jul-20	1108480	23.900	Trimurti Chemicals
	28-Jul-20	1109391	11.355	Ohm Dye Chem
	30-Jul-20	1109982	24.185	Trimurti Chemicals
Aug-20	1-Aug-20	1111604	24.175	Trimurti Chemicals
	5-Aug-20	1112987	23.820	Trimurti Chemicals
	8-Aug-20	1114580	19.795	Trimurti Chemicals
	10-Aug-20	1115538	24.610	Trimurti Chemicals
	11-Aug-20	1116126	24.640	Trimurti Chemicals
	14-Aug-20	1117285	24.725	Trimurti Chemicals
	14-Aug-20	1117288	22.945	Trimurti Chemicals
	18-Aug-20	1118817	24.435	Trimurti Chemicals
	20-Aug-20	1119975	24.475	Trimurti Chemicals
	24-Aug-20	1121582	23.600	Trimurti Chemicals
	26-Aug-20	1122682	24.045	Trimurti Chemicals
	27-Aug-20	1123232	17.260	Ohm Dye Chem
	29-Aug-20	1124318	23.610	Trimurti Chemicals
	31-Aug-20	1124942	18.685	Trimurti Chemicals
Sep-20	2-Sep-20	1126034	24.240	Trimurti Chemicals
	5-Sep-20	1127611	24.615	Trimurti Chemicals
	7-Sep-20	1128497	24.630	Trimurti Chemicals
	11-Sep-20	1131187	15.450	Trimurti Chemicals
	12-Sep-20	1131700	24.680	Trimurti Chemicals
	12-Sep-20	1131185	24.350	Ohm Dye Chem
	15-Sep-20	1133161	25.050	Trimurti Chemicals

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Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
	17-Sep-20	1134427	24.825	Trimurti Chemicals
	21-Sep-20	1136138	24.410	Trimurti Chemicals
	22-Sep-20	1136764	24.410	Trimurti Chemicals
	24-Sep-20	1138046	24.765	Trimurti Chemicals
	28-Sep-20	1140085	24.245	Trimurti Chemicals
	29-Sep-20	1140913	23.895	Trimurti Chemicals
Oct-20	1-Oct-20	1141850	23.860	Trimurti Chemicals
	3-Oct-20	1143413	24.065	Trimurti Chemicals
	3-Oct-20	1143431	12.880	Ohm Dye Chem
	7-Oct-20	1146294	24.595	Trimurti Chemicals
	10-Oct-20	1147875	24.810	Trimurti Chemicals
	12-Oct-20	1150098	15.750	Ohm Dye Chem
	13-Oct-20	1150861	25.310	Trimurti Chemicals
	19-Oct-20	1155550	25.170	Trimurti Chemicals
	19-Oct-20	1155725	19.450	Trimurti Chemicals
	20-Oct-20	1156339	24.810	Trimurti Chemicals
	21-Oct-20	1157366	24.820	Trimurti Chemicals
	27-Oct-20	1161897	24.715	Trimurti Chemicals
	29-Oct-20	1164018	24.730	Trimurti Chemicals
	30-Oct-20	1164598	27.730	Trimurti Chemicals
Nov-20	10-Nov-20	1174354	24.780	Trimurti Chemicals
	11-Nov-20	1175487	18.825	Ohm Dye Chem
	13-Nov-20	1177007	32.585	Trimurti Chemicals
	13-Nov-20	1176320	24.825	P.G.Chemicals Industries
	19-Nov-20	1178966	17.950	Trimurti Chemicals
	23-Nov-20	1181816	22.225	Trimurti Chemicals
	23-Nov-20	1181643	32.700	Trimurti Chemicals
	28-Nov-20	1186062	25.175	Lovely Chemicals
	28-Nov-20	1186055	32.425	Trimurti Chemicals
	30-Nov-20	1187648	24.765	Lovely Chemicals
Dec-20	3-Dec-20	1190672	18.740	Ohm Dye Chem
	7-Dec-20	1193912	24.725	Trimurti Chemicals
	8-Dec-20	1194907	24.750	Trimurti Chemicals
	11-Dec-20	1197339	24.635	Trimurti Chemicals
	15-Dec-20	1199536	25.050	Trimurti Chemicals
	16-Dec-20	1200492	24.730	Trimurti Chemicals
	17-Dec-20	1201511	24.560	Lovely Chemicals
	18-Dec-20	1202490	24.555	Trimurti Chemicals
	21-Dec-20	1204835	24.670	Trimurti Chemicals
	22-Dec-20	1205815	24.850	Trimurti Chemicals
	24-Dec-20	1207343	24.850	Trimurti Chemicals
	25-Dec-20	1208757	24.975	Trimurti Chemicals
	28-Dec-20	1210766	20.000	Trimurti Chemicals
	29-Dec-20	1212018	24.930	Trimurti Chemicals
	30-Dec-20	1212934	24.740	Trimurti Chemicals
Jan-21	2-Jan-21	1215245	20.860	Trimurti Chemicals
	4-Jan-21	1216809	20.265	Trimurti Chemicals
	7-Jan-21	1219182	22.935	Trimurti Chemicals
	11-Jan-21	1222709	17.955	Trimurti Chemicals
	15-Jan-21	1225399	24.575	Faiz Chemicals

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Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
	18-Jan-21	1227587	24.415	Faiz Chemicals
	20-Jan-21	1229534	25.190	Faiz Chemicals
	21-Jan-21	1230598	24.805	Faiz Chemicals
	22-Jan-21	1231547	19.360	Faiz Chemicals
	25-Jan-21	1233611	24.405	Faiz Chemicals
	27-Jan-21	1235223	24.765	Faiz Chemicals
	29-Jan-21	1237523	24.470	Faiz Chemicals
	30-Jan-21	1238615	12.030	Faiz Chemicals
Feb-21	1-Feb-21	1240158	23.620	Faiz Chemicals
	6-Feb-21	1245037	25.320	Faiz Chemicals
	8-Feb-21	1246486	25.205	Faiz Chemicals
	10-Feb-21	1248868	19.705	Faiz Chemicals
	12-Feb-21	1251071	23.325	Faiz Chemicals
	15-Feb-21	1253583	24.835	Faiz Chemicals
	17-Feb-21	1255639	21.990	Faiz Chemicals
	19-Feb-21	1257618	19.570	Jay Industries
	24-Feb-21	1262502	23.975	Jay Industries
	25-Feb-21	1263461	22.130	Jay Industries
	27-Feb-21	1265339	23.480	Jay Industries
Mar-21	2-Mar-21	1267433	24.470	Jay Industries
	4-Mar-21	1269202	24.710	Jay Industries
	6-Mar-21	1271213	20.750	Jay Industries
	9-Mar-21	1273587	25.190	Jay Industries
	12-Mar-21	1275557	24.805	Jay Industries
	15-Mar-21	1277983	24.860	Jay Industries
	17-Mar-21	1279860	10.580	Jay Industries
	19-Mar-21	1281970	25.235	Jay Industries
	22-Mar-21	1284161	21.865	Jay Industries
	25-Mar-21	1287109	24.890	Jay Industries
	30-Mar-21	1289984	24.480	Jay Industries
	31-Mar-21	1290955	24.735	Jay Industries
	TOTAL QUANTITY (In MT)		**3501.685**	

DATE: 5th June 2021

PLACE: Panoli

CHEMINOVA INDIA LIMITED THANE

Signature of Factory manager /Occupier

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Annexure 5 -ENVIRONMENTAL STATEMENT – FORM V (2020-2021)

FMC | An Agricultural Sciences Company

Cheminova India Limited
Intermediate Division
(27+28)/A, GIDC Estate,
Panoli - 394 116
Dist. Bharuch (Gujarat)
India.
cheminova.panoli@fmc.com
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CIN NO. U24100MH1986PLC038627

Ref No. CIL/ INTER/Form -V/2020-21/09/05/20

ID: 15016

Date: 5Th September 2021

To

The Member Secretary

Gujarat Pollution Control Board,

Paryavaran Bhawan, Sector-10-A,

Ghandhinagar-382010

SUB: - Submission of Environment Statement (FORM-V) for the Year 2020-21

Respected Sir,

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

.

Please acknowledge the same.

This is for your kind perusal please

Thanking you,

Yours faithfully,

CHEMINOVA INDIA LIMITED PANOLI

Cheminova India Limited. Panoli.
Intermediate Division

Enclosures: Form —V

CC To: Regional Officer, GPCB, Ankleshwar.

RECEIVED
Gujarat Pollution Control Board,
R.O. Ankleshwar
Date : 6/9/21

FORM - V
(See Rule 14)

From :

CHEMINOVA INDIA LTD.
Intermediate Division Plot no (27+28)/A
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, 2021

PART -A

i) Name & address of the Owner/Occupier of the industry, operation or process	-	**Mr.Manoj Khanna** CHEMINOVA INDIA LTD. Intermediate Division Plot no (27+28)/A 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	-	1998
v) Date of the last environmental statement submitted	-	5Th September 2020

PART -B

Water & Raw Material Consumption

i) Water consumption - M^3/day		360	m3/day
Process	-	136	m3/day
Cooling	-	186	m3/day
Domestic	-	25	m3/day
Gardening	.-	13	m3/day

Name of products	Process water consumption per product output **(Lit./ Kg)**	
	During the previous financial year 2019-2020 (1)	During the current financial year 2020-2021 (2)
(1) Diethyl Thio Phosphoryl Chloride	11.00	9.10
(2)Azole group based products (Florasulam)	55.00	54.00
(4)Bixlozone (F-9600)	12.00	9.50

ii) Raw Material consumption

	* Name of raw materials	Name of Products	Consumption of raw material per unit of output	
			During the previous financial year 2019-2020	During the Current financial year 2020-2021
1	Phosphorous	DETPC	0.192	0.1994
2	Sulphur		0.494	0.5093
3	Ethanol		0.806	0.7906
4	Caustic lye		0.282	0.1198
5	Chlorine		0.508	0.4920
6	Soda Ash		0.212	0.2252

CHEMINOVA INDIA LIMITED PANOLI

b) Air		TPD	mg/Nm³	
Sulphur Furnace				
	SPM	0.0044	40.50	.--
	SOx	0.0020	18.667	.--
	NOx	0.0018	16.33	.--
	Cl2	BDL	0.188	.--
	HCl	BDL	0.217	.--
	CO	0.0012	11.000	.--
Vent Incinerator				
	SPM	0.0068	36.92	.--
	SOx	0.0053	28.583	.--
	NOx	0.0033	17.67	.--
	Cl2	BDL	0.86	.--
	HCl	BDL	0.30	.--
	CO	0.0026	13.917	.--
Boiler				
	SPM	0.060	70.58 mg/nm3	.--
	SOx	0.018	21.08 ppm	.--
	NOx	0.023	26.58 ppm	.--

PART-D

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

Hazardous wastes		Total Quantity (kg)	
		During the previous financial year 2019-2020	During the current financial year 2020-2021
a) From Process			
Category	**Type of Waste**		
	(1)Recovered Sulphur	24415	11615
	(2)Used Oil	460	950
	(3) Evaporation Salt	0	0
	(4) Non Recyclable Plastic	25730	26015
	& Insulation Waste		0
	(5) Incineration Waste	13415	314425
	& Co Processing	255580	206430
	(6) Asbestous Sheet	10760	6860
b) From Pollution Control facilities		0	0
	ETP Sludge	1289000	1147975
By products	**Sodium Hydro sulfide 30%**	2441061	2748190
	Hydrochloric Acid 30%	3230880	3564520
	Phosphoric Acid	490140	566165
	Sodium Bisulphite Powder	1012720	1165560
	Sodium Sulphite 30%	264565	0
	Sodium Bisulphite Solution (30%)	2890855	3501685

PART -E
Solid Wastes

	Total Quantity in Kgs	
	During the previous financial year 2019-2020	During the current financial year 2020-2021
a) From Process	Nil	Nil
b) From Pollution Control facilities	Nil	Nil
c) 1) Quantity recycled or re-utilized within the unit	Nil	Nil
2) Sold		
Discarded Container / Drum Cut sheet	Nil	92950
3)Disposed	Nil	Nil

CHEMINOVA INDIA LIMITED PANOLI INTERMEDIATE DIVISION

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) Procurement of Non- Conventional Energy - Solar Power from suplier is continued and aggrement is made to have Sustainable

(2) DCS Facility provided for the Production of Bixalozone .

(3) Additional meters are provided for individual effluent inlet streams to ETP to mintor the income effluent.

PART -H

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

ontinuous improvement is brought in as a part of the Environment Management System by undertaking objectives and targets for resource conservation.

Continuous improvement is brought in as a part of the Environment Management System by undertaking objectives and targets for resource conservation

PART - I

Any other particulars for improving the quality of the environment.

'(1) Retrofitting of Aeartion Tank -3 has been done after its claening to have effective working volume

(2) Facility has been developed for storage and segregation of hazardous waste in Hazardous waste storage area

Date: 5-Sep-21

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

Name: Anil N Shah

Designation: Factory Manager

Address:Cheminova India Limited.
(Intermediate Division)
Plot no.(27/28)/A,
GIDC Estate, Panoli-394116.
Dist. Bharuch, Gujarat.

ANNEXURE –1

PRODUCTION CAPACITY (MT / YEAR)

Sr. No.	Products	Total Capacity (MT/Annum)
1	Phosphorus Trichloride (PCl_3)	1000
2	Trimethyl Phosphite (TMP) or Triethyl Phosphite (TEP)	100
3	Diethyl Thio Phosphoryl Chloride (DETPC)/DETA/NaDETA	5330
4	Cyhalothrin Acid	250
5	Phosphorus Penta Sulphide (P_2S_5)	3400
6	Fluindapyr (F 9990)	150
7	Bixlozone (F9600)	960
8	Acid based products [2-bromobutyric Acid (int), amino acid (int), ethyl 2-(4-hydroxy phenoxy) propionate (O-HPPA) (int), Thiocyclam (I), Bispyribac-Sodium (H), Pyrithiobac-Sodium(H), Methoxy Amine Hydrochloride (int), 2-hydroxyphenyl Acetic Acid (HPAA) (int)]etc.	150
9	Amide group based products [Pretilachlor (H), Captan (F), Cymoxanil (F), Beflubutamide (H), Pethoxamide (H), Carboxin (F), Flubendamide (I), Chlorantraniliprole (I), Thiaflusamide (F), Zoxamide (F),Flufenacet (H),2 Aminosulfonyl – N-N- Dimethylnicotinamide (SNA) (Int), 2-(Methoxycarbonyl) thiophene thiophene-3 Sulfonamide (MST) (Int)] etc.	150
10	Azine group based product Fenpyroximate (I), Metribuzin (H), Pymetrozine (I), Arnitraz (I), Indoxacarb (I), Clofentezine (I), 2 Methoxy -4-Methyl-6-Methylamino-I,3,5-Triazine (MMMT) (Int)] etc.	300
11	Azole group based products [Fipronil (I), Hexaconazole (F), Propiconazole (F), Difenoconazo[e (F), Tricydazole (F), Myclobutanil (F), Florasulam (H), Tebuconazole (F), Flusilazole (F), Tebuconazole (F), Tridemefon, Paclobutrazol (F), Thiamethoxam (I), Flutriafol (F), (Safener Isoxadifen ethyl (Int), Irnidacloprid (I), 2, 6 DiChloroBenzoxazolone (Int), Penoxasulam (H)] etc.	200
12	Carbamate group based product [Thiodicarb (I), Propineb (F), Metiram (F), Thiram (F), Cartap hydrochloride (I), Thiophanate Methyl (F)] etc.	500
13	Ester group based products [Fenoxaprop-p-Et (H), Clodinafop-Pr (H), Quizolfop-p-ethyl (H), Quinzolfopp-terfuryl (H),Cyhalofop (H), Isoprothiolane (F),Alphamethrin (I), Lambda Cyhaothrin (I), Cypermethrin)I),Bifenazate (I), Phthalide (Int],etc.	300
14	Ether group based products [Propargite (I), oxyfluorfen (H), S-Cyano MPB (Int), 2 Ethoxy Ethyl Amine (Int)]etc.	200
15	Ketone group based product [Mesotrione (H), Suctioned (H), Isoxaflutole (H), Dimethomorph (F), Isobutyrophenone (IBP) (Int)]etc.	1200
16	Phosphate group based product [Chlorpyrifos (I) or its intermidiate Na-TCP (Int), Acephate (I), Monocrotophos (I) or its intermediates MCMMAA (Int.), Dimethoate (I), Profenofos (I), Ethephon (PGR)]etc.	5000
17	Pyridine group based product [Pyridalyl (I), Imazethapyr (H) Cloquintocct Mexyl (H), Acetamiprid (I), 4,6-DiChloro Pyridine (Int)], Azoxvstrobin (F) etc.	250
18	Urea group based product [Buprofezin (I), Lufenuron (I), Linuron (H), Diafenthiuron (I), Diuron (H), Novaluron (I), Chlorimuron (int), Hexythiazox (I), Spiromesifen (I), Azimsulfuron (H) , Sulfonyl Ureas (H)] etc.	100
19	Phenol group based product [2-Cyanophenol (Int), 4- Fluro-3 trilluromethyl phenole (Int)]etc.	75

CHEMINOVA INDIA LIMITED PANOLI

ANNEXURE -2

CHARACTERISATION OF HAZARDOUS WASTE

SR. NO.	NAME	PHYSICAL FORM	WASTE CATEGORY No.	SP. GR.	% SOLIDS	CHEMICAL COMPOSITION	METHOD OF DESPOSAL
1	ETP SLUDGE	Solid	34.3	-------	85	CaO - 55 % P2O5 - 15 % S1O2 - 5 % Water - 15 % Other CaSalts - 10 %	Disposal to Common TSDF facility of M/s. BEIL, Ankleshwar & M/s. SEPPIL
2	RECOVERED SULFUR	Solid	D-1	--------	---	Recovered Sulfur CAS No. 7704-349	Disposal to Common TSDF facility of M/s. BEIL, Ankleshwar
3	USED OIL	Liquid	5.1	0.94	---	Not Applicable	Dispose by Selling to registered Collection, Storage, and Transportation Reprocessors.
4	DISCARDED CONTAINERS, BAGS/ LINERS	Solid	33.3	-------	-------	M.S., PVC, HDPE.	Discarded containers sale to Authorised Traders. Bags/Liners disposed to Common TSDF facility of M/s. BEIL & SEPPIL
5	PROCESS WASTE / RESIDUE	Liquid / Residue	29.1	------	------	Mostly Organic compound	Stored In Drums and kept at dedicated area and disposed to common Incineration Facility developed by BEIL - Ankleshwar / SEPPIL
6	SOLID WASTE (EVAPORATION SALT)	Solid	29.1	------	------	Mostly In-Organic compound	Disposal to Common TSDF facility of M/s. BEIL, Ankleshwar & M/s. SEPPIL
7	Sodium Hydro sulfide 30%	Liquid	.--	------	------	NasH -30%	Sold to Authorized End users
8	Hydrochloric Acid 30%	Liquid	B-15	------	------	HCL-30%	Sold to Authorized End users
9	Phosphoric Acid	Liquid	B-15	------	------	Phosphoric Acid-68 %	Sold to Authorized End users
10	Sodium Bisulphite Powder	Powder	B-23	------	------	SBS Powder	Sold to Authorized End users
11	Sodium Sulphite 30%	Liquid	B-15	------	------	SS -30 %	Sold to Authorized End users
12	Sodium Bisulphite Solution (30%)	Liquid	B-23	------	------	SBS Sol. 30 %	Sold to Authorized End users

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