

Date: 22-06-2023

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

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

**Sub: Submission of Compliance Report of M/s. Cheminova India Limited (Intermediate Division) for our EC No. IA-J-11011/53/2018-IA-II (I), dated 31/12/2019 for the period of December 2022 to May 2023.**

Respected Sir,

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

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 (2022-2023)
5.	Environmental statement- Form V (2021-2022)

Please find the above in order and acknowledge receipt.

Thanking You,

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

  
  
Authorized Signatory

# SIX MONTHLY EC COMPLIANCE REPORT

(December 2022 to May 2023)

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, Scientist C, Integrated Regional Office,

Aranya Bhavan, Sector-10,

Gandhinagar – 382 010

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# SIX MONTHLY EC COMPLIANCE REPORT

## A –Six Monthly Monitoring Report - DATA SHEET

Monitoring the Implementation of Environmental Safeguards  
Ministry of environment & Forests  
Regional Office (W), Gandhinagar  
Six Monthly Monitoring Reports  
PART – 1  
From: 01.12.2022 to 31.05.2023

No.	Cheminova-Int/EC-Datasheet/01-2023	
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: 31 <sup>st</sup> 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 <sub>3</sub> , Cl <sub>2</sub> , SO <sub>2</sub> , NO <sub>x</sub> , H <sub>2</sub> S, CO, HC, PM
	Flue Gas Emission	PM, SO <sub>2</sub> , NO <sub>x</sub>
	Fuel Type	Natural gas, HSD, Briquettes/ Bagasse/ Groundnut shell
	Fuel Requirement	Natural Gas- 10800 Nm <sup>3</sup> /h, HSD- 800.7 L/h, Briquettes/ Bagasse/Groundnut shell - 2970 kg/h



## SIX MONTHLY EC COMPLIANCE REPORT

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 <ul style="list-style-type: none"> <li>)] To monitor the ambient air quality parameters and flue gas emissions within premises and also in the nearby area regularly and to compare with the regulating standards so that any necessary corrective actions can be taken.</li> <li>)] Work place monitoring to be carried out periodically to check fugitive emissions, if any.</li> <li>)] To develop and maintain greenbelt, in and around the factory, for reducing the effect of air pollutants due to their deposition.</li> <li>)] To follow proper loading and unloading practices to minimize dusting</li> <li>)] To maintain proper record for the fuel consumption, start-up time and duration of boiler operation towards energy conservation</li> </ul>	<ul style="list-style-type: none"> <li>)] Company maintains its own records and monitors the ambient air and flue gas emission within premises periodically. Monitoring of ambient air &amp; flue gas analysis is done by Siddhi Green Excellence Pvt Ltd., Ankleshwar.</li> <li>)] Work place monitoring to be carried out periodically by Siddhi Green Excellence Pvt Ltd., Ankleshwar.</li> <li>)] Unit has developed &amp; maintained greenbelt area.</li> <li>)] Unit is having closed system for loading and unloading of chemicals.</li> <li>)] Unit is maintaining records for the fuel consumption, start-up time and duration of boiler operation towards energy conservation</li> </ul>	
3	For Water Environment Management <ul style="list-style-type: none"> <li>)] To investigate possibilities of water reuse and recycling for reducing water consumption and wastewater generation</li> <li>)] Records of water consumption, effluent generation, effluent discharge, water characteristics, treated and untreated effluent characteristics to be maintained.</li> <li>)] To monitor the adequacy and efficiency of ETP so that the effluent is given suitable treatment and the treated effluent meets specified norms of available CC&amp;A of GPCB.</li> <li>)] The effluent collection and discharge drainages, effluent handling and treatment systems to be maintained and regularly monitored to prevent leakages or sudden break-down.</li> <li>)] Proper house-keeping to be adopted to prevent spillages and contaminated surface runoff going to storm water drains.</li> </ul>	<ul style="list-style-type: none"> <li>)] Reuse and recycling options are being investigated together with feasibility of rainwater harvesting.</li> <li>)] Unit is maintaining records of water consumption, effluent generation, effluent discharge, water characteristics, treated and untreated effluent characteristics.</li> <li>)] The adequacy and efficiency of ETP is maintained well and the effluent is treated appropriately at all the stages. The Treated effluent is further processed in R.O.Plant and MEE Plant. The R.O. Permeate is reused within premises.</li> <li>)] The effluent collection and discharge drainages, effluent handling and treatment systems are maintained and regularly monitored to prevent leakages or sudden break-down by preventive maintenance of all ETP units is taken periodically by taking appropriate proactive actions.</li> <li>)] Good house-keeping practices have been implemented by the unit to prevent spillages and contaminated surface runoff going to storm water drains.</li> </ul>	
4	For Hazardous / Non-hazardous waste management <ul style="list-style-type: none"> <li>)] Proper storage and handling arrangements in compliance to the conditions of authorization granted by SPCB.</li> </ul>	<ul style="list-style-type: none"> <li>)] Appropriate storage and handling arrangements for all the hazardous waste are provided as per the conditions specified in</li> </ul>	

## SIX MONTHLY EC COMPLIANCE REPORT

	<div><div><div>]</div><div>]</div><div>]</div><div>]</div></div><div><div>Proper signboards to be provided at relevant places.</div><div>All the necessary regulatory procedures as per the amended Hazardous Waste Management &amp; Handling Rules – 2003 to be followed and adhered with.</div><div>The transportation of hazardous waste to the TSDF Site to be as per the guidelines and accompanied with Form-9.</div><div>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.</div></div></div> <div><div>the authorization granted by GPCB.</div><div>Signboards are provided at relevant places.</div><div>Unit is following all the applicable regulatory procedures as per the amended Hazardous Waste Management &amp; Handling Rules – 2016.</div><div>Unit is following guidelines for transportation of hazardous waste to all the TSDF &amp; CHWIF and is accompanied with form-9.</div><div>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.</div></div>																											
Note: Environment Statement– Form V (Financial year -2021-2022) is attached as Annexure-4.																												
7	Production details during compliance period and (or) during the previous financial year		<table><tr><th colspan="2">Production Details</th></tr><tr><th>Month</th><th>Quantity (MTM)</th></tr><tr><td>December 2022</td><td>434.000</td></tr><tr><td>January 2023</td><td>408.000</td></tr><tr><td>February 2023</td><td>532.430</td></tr><tr><td>March 2023</td><td>507.150</td></tr><tr><td>April 2023</td><td>482.630</td></tr><tr><td>May 2023</td><td>463.206</td></tr></table>		Production Details		Month	Quantity (MTM)	December 2022	434.000	January 2023	408.000	February 2023	532.430	March 2023	507.150	April 2023	482.630	May 2023	463.206								
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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																									
	<table><tr><th>Sr.No.</th><th>Particulars</th><th>Recurring Cost Per Annum [Rs. In lakh]</th><th>Capital Cost (Rs. In lakh)</th></tr><tr><td>1</td><td>Air Pollution Control</td><td>683</td><td>600</td></tr><tr><td>2</td><td>Water Pollution Control</td><td>1366</td><td>1200</td></tr><tr><td>3</td><td>Noise Pollution Control</td><td>5</td><td>3</td></tr><tr><td>4</td><td>Environment Monitoring &amp; Management</td><td>153</td><td>90</td></tr><tr><td>5</td><td>Occupational Health &amp; Safety</td><td>50</td><td>12</td></tr></table>	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			
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5	Occupational Health & Safety	50	12																									

## SIX MONTHLY EC COMPLIANCE REPORT

	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		:	1045 Lacs
	f) Actual expenditure incurred on the Environmental Management Plan so far		:	766 Lacs
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		:	22-02-2023 (Visit by GPCB)
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 reports are attached as Annexure –1& 2.

## SIX MONTHLY EC COMPLIANCE REPORT

### Annexure 1 -Compliance report of Environment Clearance

Sr. No.	Conditions				Compliance Status																
2.	The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for expansion of 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).				Noted																
3.	The details of products are as under:-				Noted.Unit has been obtainedpartial CC&A Amendment. Production data as per existing CTO is as below: <table><tr><th colspan="2">Production Details for Compliance period: December 2022 to May 2023</th></tr><tr><th>Month</th><th>Quantity (MT/Month)</th></tr><tr><td>December 2022</td><td>434.000</td></tr><tr><td>January 2023</td><td>408.000</td></tr><tr><td>February 2023</td><td>532.430</td></tr><tr><td>March 2023</td><td>507.150</td></tr><tr><td>April 2023</td><td>482.630</td></tr><tr><td>May 2023</td><td>463.206</td></tr></table>	Production Details for Compliance period: December 2022 to May 2023		Month	Quantity (MT/Month)	December 2022	434.000	January 2023	408.000	February 2023	532.430	March 2023	507.150	April 2023	482.630	May 2023	463.206
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	SN	Name of Product	Quantity (MT/Annum)																		
			Existing (TPA)	Proposed (TPA)		Total (TPA)															
	1.	Phosphorous Trichloride (PCL <sub>3</sub> )/ Phosphoryl Chloride (POCL <sub>3</sub> )	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.	Phosphorous Penta Sulphide(P <sub>2</sub> S <sub>5</sub> )	3400	--	3400																
	6.	Acid Based Products [2-Bronobutyric Acid (INT),Ethyl 2-( 4-Hydroxy Phenoxy) Propinoate (O- HPPA) (INT), Thiocyclam (I), Bispripyrac-Sodium (H), Methoxy Amine Hydrochloride (INT), 2-Hydroxyphenyl Acetic Acid (HPPA) (INT), Amino Acid (INT)] etc.	150	--	150																
	7.	Amide Group Based Products [ Pretilachlor (H), Captan (F), Cymoxanil (F), Bifluthrin (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), ,Metaixyl (F), Famoxadone (F)] etc.	1200	--	1200																
	9.	Azine group based products Fenpyroximate (I), Metribuzin (H), Pymetrozin (I), Armatraz (I), Indoxacarb (I), Cofentazine (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), (Safener)soxadifen Ethyl (Int), Iridacloprid (I), 2, 6 Dichlorobenzoxazolone(Int), Penoxasulam(H)] etc.	200	--	200																


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Sr. No.	Conditions	Compliance Status		
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 Cyhathrin(I), Cypermethrin (I),Bifenazate(I), Phthalide (Int) etc.	300	--	300
13.	Ether group based products [Propargite(I), oxyfuorfen(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 intermediate 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)], Azoxystrobin(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

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Sr. No.	Conditions					Compliance Status														
	33.	Chlorsulfuron	---	60	60															
	34.	Triflursulfuron Methyl	---	50	50															
	35.	Azimsulfuron	--	4	4															
	36.	Flupyralsulfuron 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.					Noted. The condition mentioned beside will be followed.														
5.	There are no National parks, Wildlife sanctuaries, Biosphere, Reserves, Tiger/Elephant Reserves, and Wildlife Corridors etc. within 10 km from the project site. Ukai canal flows at a distance of 1.66 km in west direction.					Noted. Unit is located within Notified GIDC Industrial Estate, Panoli.														
6.	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.					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>December 2022</td><td>9924</td></tr><tr><td>January 2023</td><td>9881</td></tr><tr><td>February 2023</td><td>11063</td></tr><tr><td>March 2023</td><td>11361</td></tr><tr><td>April 2023</td><td>12599</td></tr><tr><td>May 2023</td><td>13444</td></tr></table>	Month	Quantity (KL/Month)	December 2022	9924	January 2023	9881	February 2023	11063	March 2023	11361	April 2023	12599	May 2023	13444
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	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.					Total wastewater generation/ treatment in RO Plant is as below:														
						<table><tr><th>Month</th><th>Quantity (KL/Month)</th></tr><tr><td>December 2022</td><td>4695</td></tr><tr><td>January 2023</td><td>4282</td></tr><tr><td>February 2023</td><td>3728</td></tr><tr><td>March 2023</td><td>4866</td></tr><tr><td>April 2023</td><td>4545</td></tr></table>	Month	Quantity (KL/Month)	December 2022	4695	January 2023	4282	February 2023	3728	March 2023	4866	April 2023	4545		
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February 2023	3728																			
March 2023	4866																			
April 2023	4545																			

## SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status														
		May 2023	5785													
	RO Plant		MEE Plant													
																
	<p>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 &amp; 1500 KVA will be required under proposed expansion.</p> <p>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.</p>		<p>At present unit has obtained partial CTO Amendment. Hence Present power consumption is 2700 KVA. Unit shall comply with the given condition.</p> <p>The details of total Power consumption met by M/s Dakshin Gujarat Vij Company Limited (DGVCL) as below</p> <table><tr><th>Month</th><th>Power Consumption (Kwh)</th></tr><tr><td>December 2022</td><td>1028820</td></tr><tr><td>January 2023</td><td>1102110</td></tr><tr><td>February 2023</td><td>1116390</td></tr><tr><td>March 2023</td><td>1047870</td></tr><tr><td>April 2023</td><td>1174860</td></tr><tr><td>May 2023</td><td>1221420</td></tr></table> <p>Noted and complied.</p>	Month	Power Consumption (Kwh)	December 2022	1028820	January 2023	1102110	February 2023	1116390	March 2023	1047870	April 2023	1174860	May 2023
Month	Power Consumption (Kwh)															
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## SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status
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 23 <sup>rd</sup> March, 2018. Public hearing is exempted in accordance with the Ministry's OM dated 27 <sup>th</sup> April 2018, as the project site is located in the notified industrial area.	Noted.
9.	The proposal for environmental clearance was considered by the EAC (Industry-2) in its meetings held on 8-9 <sup>th</sup> 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 31 <sup>st</sup> October 2019 and Ministry's communication dated 24 <sup>th</sup> October 2019 regarding compliance of Hon'ble NGT order dated 19.8.2019 (published on 23.8.2019) in OA No. 1038/2018.	Noted.
11.	Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for Expansion of 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:-	Noted.
	(i) Consent to Establish/Operate (CTE/CTO) for the project shall be obtained from the State Pollution Control Board (SPCB) as required under the Air (Prevention and Control of Pollution) Act, 1981 and the water (Prevention and Control of Pollution ) Act, 1974, and the SPCB shall follow the mechanism/protocol issued by the Ministry vide letter no. Q-16017/38/2018-CPA dated 24 <sup>th</sup> October, 2019 and forwarded by Central Pollution Control Board vide letter dated 25 <sup>th</sup> October, 2019 to the SPCB's while issuing the CTE/CTO for the project, for improvement of environmental quality in the area.	Consent to Establish was obtained via out ward No. 15866 dated 4 <sup>th</sup> June 2020. Partial CTO Amendment was granted on 05-09-2022. CTO-Amendment Copy is attached as Annexure -3.
	(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.	Complid. Unit has also obtained CTO and maintain ZLD.
	(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 strictly adheres to the given condition.
	(iv) National Emission Standards for Pesticides Manufacturing Industry issued by the Ministry vide G.S.R.446(E) dated 13 <sup>th</sup> June, 2011, as amended from time to time, shall be followed.	Noted.
	(v) No pesticides/chemicals banned by the Ministry of agriculture and Farmers welfare, or having LD <sub>50</sub> <100 mg/kg shall be produced. Also, no raw material/solvent prohibited by the concerned regulatory authorities from time to time	Unit commits that No pesticides/chemicals banned by the Ministry of agriculture and Farmers welfare, or having

## SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status									
	time, shall be used for production of pesticides.	LD <sub>50</sub> <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.	Noted & complied.									
	(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									
	(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.	Noted and Complied.									
	(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	Well-structured storm water drainage network is already available at site.									
	(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.	Unit has provided flame arresters in tank farm and solvent transfer is done through pumps with mechanical seals.									
	(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.	Hazardous waste disposal details during the period December 2022 to May 2023 is as below: <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Hazardous Waste Name</th><th>Disposal Quantity (MT)</th><th>Disposal mode</th></tr> </thead> <tbody> <tr> <td>Process waste and res residue</td><td>967.7</td><td>Co-Processing</td></tr> <tr> <td>ETP sludge</td><td>1113.46</td><td>TSDF site</td></tr> </tbody> </table>	Hazardous Waste Name	Disposal Quantity (MT)	Disposal mode	Process waste and res residue	967.7	Co-Processing	ETP sludge	1113.46	TSDF site
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	(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.	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									

## SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status
		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.
	(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 vapor recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.	Unit shall follow the given condition.
	(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.	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%.
	 <div data-bbox="222 1192 1980 1240"> <span>Greenbelt along Boiler side</span> <span>Near MPHP Plant</span> <span>Behind ETP Plant</span> <span>Greenbelt Development</span> </div>	
	(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.	Unit shall follow the given condition. Fund allocation for 2022 CER/CSR jobs for both Technical & Intermediate are as follow: ) Providing skill training and support for women


## SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions		Compliance Status
			empowerment to Kharod village = 6.50 lakh =completed in June2022 ) Providing skill training and support for women empowerment to Sanjali village = 6.50 lakh =completed in June2022 ) Providing streetlight and solar roof top to Umarwada village as sustainable solution = 25 lakh = Completed in May2022 ) Sponsorship of Cricket tournament trophy to kharod village to encourage sports activities in younggeneration= 1.15 lakh = completed in June22 Total Fund Allocation In CER= 39.15 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

## SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions			Compliance Status
	4.	Elevated Work	Detailed Training	
			(1) Competent Person	
	5.	Line Breaking and Equipment Opening	Detailed Training	
			(1) Equipment Owner	Production Department
			(2) Work Performing Group	Engineering Department
	6.	HAM	Detailed	All Department and Contractor
	7.	Security Standard	Detailed	All Department
	8.	Hose Management Standard	Detailed Training	Production / Engineering
				Contractor
	9.	Decommissioning	Detailed Training	Production, Engineering, Material, EHS, QC, HR Staff
	10.	Lab Standard		
		FMC Laboratory Minimum Safety Standards: MSDS	Detailed Training	QC and R&D Department
		Laboratory Minimum Safety Standards: Glassware Handling	Detailed Training	QC and R&D Department
		FMC Laboratory Minimum Safety Standards: Chemical Storage	Detailed Training	QC and R&D Department
		FMC Laboratory Minimum Safety Standards: Fume Hoods	Detailed Training	QC and R&D Department
	11.	Glove Use Standard	Detailed Training	All Department /visitors /contractors
	12.	PPE	Detailed Training	All Department /visitors /contractors
	13.	MOC	Detailed Training	All Department
	14.	Incident Management standard,	Detailed Training	All Department
		Effective Injury and		
		Illness Case		
		Management Guideline		
	15.	Process Safety Module	Detailed Training	Manufacturing / Engineering /
	16.	No-1 and No-2		Technical Services
Photographs of trainings:				

## SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status
		<p>(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.</p> <p>Presently, unit has appointed third party for carrying out regular monitoring of Flue gas analysis. Analysis reports for reference is attached below:</p>



## SIX MONTHLY EC COMPLIANCE REPORT

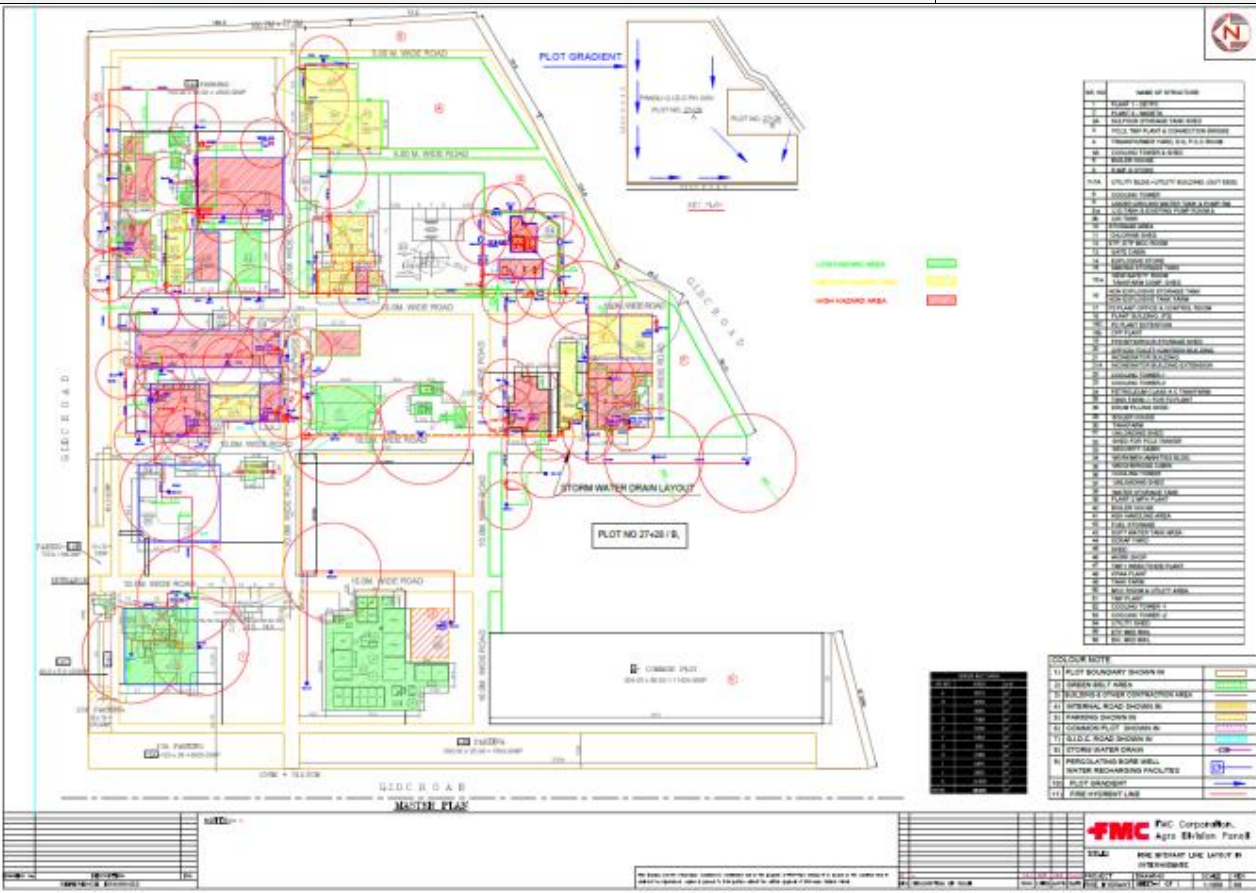
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	<div style="text-align: center;"> <b>Siddhi Green Excellence</b>  <b>PRIVATE LIMITED</b> </div> <p style="text-align: center;"><b>TEST REPORT</b></p> <p>REPORT NO. : SC/CILID/ST/MAY/2023/01 <span style="float: right;">Date of Issue :23-05-2023</span></p> <p>Issued to: <b>M/s. CHEMINOVA INDIA LTD. (INTERMEDIATE DIV.)</b></p> <p>Address: <b>PLOT NO.27,28/A GIDC ESTATE:PANOLI, TA: ANKLESHWAR,DIST: BHARUCH-394116</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">SR.NO.</th> <th style="width: 50%;">DESCRIPTION</th> <th style="width: 40%;">FLUE GAS STACK EMISSION ANALYSIS</th> </tr> </thead> <tbody> <tr> <td></td> <td><b>Particulars of Sample</b></td> <td><b>Stack No.1</b></td> </tr> <tr> <td>1</td> <td>PCB ID of Stack</td> <td>95313</td> </tr> <tr> <td>2</td> <td>Sample ID</td> <td>27728-FS-01</td> </tr> <tr> <td>3</td> <td>Name of Stack</td> <td>BOILER</td> </tr> <tr> <td>4</td> <td>Source</td> <td>BOILER(10 TPH ) GT 4423</td> </tr> <tr> <td>5</td> <td>Date &amp; Time of sampling</td> <td>17-05-2023 &amp; 10:49 h</td> </tr> <tr> <td>6</td> <td>Date of Receipt</td> <td>17-05-2023</td> </tr> <tr> <td>7</td> <td>Date of Analysis start</td> <td>18-05-2023</td> </tr> <tr> <td>8</td> <td>Date of Completion</td> <td>19-05-2023</td> </tr> </tbody> </table> <p>Sampling Plan &amp; Sampling Method Used : Lab Document SC/LAB/01</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Details of Stack</th> </tr> </thead> <tbody> <tr> <td>1 Stack Height</td> <td>40 m</td> </tr> <tr> <td>2 Stack Diameter</td> <td>-</td> </tr> <tr> <td>3 Temperature of Flue gas</td> <td>128 °C</td> </tr> <tr> <td>4 Velocity of Flue gas</td> <td>8.03 m/s</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Details of Flue Gas</th> </tr> </thead> <tbody> <tr> <td>1 Type of Fuel</td> <td>Natural gas</td> </tr> <tr> <td>2 Rate of Consumption</td> <td>9000 m3/h</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">PARAMETERS ANALYSED</th> <th style="width: 10%;">UNIT</th> <th style="width: 20%;">TEST METHOD</th> <th style="width: 10%;">PERMISSIBLE LIMIT (NOTE 2)</th> <th style="width: 10%;">RESULTS</th> </tr> </thead> <tbody> <tr> <td>1 PM @ 12% CO2</td> <td>mg/Nm3</td> <td>IS 11255 (Part 1):1985, RA2019</td> <td>120</td> <td>BDL(DL=5)</td> </tr> <tr> <td>2 SO2</td> <td>ppm</td> <td>IS 11255 (Part 2):1985, RA2019</td> <td>80</td> <td>BDL(DL=3)</td> </tr> <tr> <td>3 NOx</td> <td>ppm</td> <td>IS 11255 (Part 7):2005, RA2017</td> <td>40</td> <td>13</td> </tr> </tbody> </table> <p>Additions to, deviations, or exclusions from the method :-None</p> <p>Results from external providers, if any :- None</p> <p>Any other remarks :-None</p> <p>Abbreviations used :- BDL(Below Detection Limit)</p> <p>Verified by:  <span style="float: right;">Authorized Signatory</span></p> <p style="text-align: right;">Mrs. K. P. Shah / Mrs. M. Shah</p> <p>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 of 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.</p> <p style="text-align: center;"><b>*** End of Report ***</b></p> <p style="text-align: center;">Page 1 of 1</p> <p>Format No. : SC/LAB/F/Report-03 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 02 Revision Date : 30-06-2020</p> <p style="text-align: center;">www.siddhigreen.com</p> <p style="text-align: center;">GUJARAT'S : Reqd. Office : : Dated Off. :</p>	SR.NO.	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Sr. No.	Conditions	Compliance Status
	(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

## SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status
	 <p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li>LOW HAZARD AREA (Green)</li> <li>HIGH HAZARD AREA (Red)</li> </ul> <p><b>INFRASTRUCTURE LIST</b></p> <ol style="list-style-type: none"> <li>1. PLANT &amp; EQUIPMENT</li> <li>2. PLANT &amp; EQUIPMENT</li> <li>3. PLANT &amp; EQUIPMENT</li> <li>4. PLANT &amp; EQUIPMENT</li> <li>5. PLANT &amp; EQUIPMENT</li> <li>6. PLANT &amp; EQUIPMENT</li> <li>7. PLANT &amp; EQUIPMENT</li> <li>8. PLANT &amp; EQUIPMENT</li> <li>9. PLANT &amp; EQUIPMENT</li> <li>10. PLANT &amp; EQUIPMENT</li> <li>11. PLANT &amp; EQUIPMENT</li> <li>12. PLANT &amp; EQUIPMENT</li> <li>13. PLANT &amp; EQUIPMENT</li> <li>14. PLANT &amp; EQUIPMENT</li> <li>15. PLANT &amp; EQUIPMENT</li> <li>16. PLANT &amp; EQUIPMENT</li> <li>17. PLANT &amp; EQUIPMENT</li> <li>18. PLANT &amp; EQUIPMENT</li> <li>19. PLANT &amp; EQUIPMENT</li> <li>20. PLANT &amp; EQUIPMENT</li> <li>21. PLANT &amp; EQUIPMENT</li> <li>22. PLANT &amp; EQUIPMENT</li> <li>23. PLANT &amp; EQUIPMENT</li> <li>24. PLANT &amp; EQUIPMENT</li> <li>25. PLANT &amp; EQUIPMENT</li> <li>26. PLANT &amp; EQUIPMENT</li> <li>27. PLANT &amp; EQUIPMENT</li> <li>28. PLANT &amp; EQUIPMENT</li> <li>29. PLANT &amp; EQUIPMENT</li> <li>30. PLANT &amp; EQUIPMENT</li> <li>31. PLANT &amp; EQUIPMENT</li> <li>32. PLANT &amp; EQUIPMENT</li> <li>33. PLANT &amp; EQUIPMENT</li> <li>34. PLANT &amp; EQUIPMENT</li> <li>35. PLANT &amp; EQUIPMENT</li> <li>36. PLANT &amp; EQUIPMENT</li> <li>37. PLANT &amp; EQUIPMENT</li> <li>38. PLANT &amp; EQUIPMENT</li> <li>39. PLANT &amp; EQUIPMENT</li> <li>40. PLANT &amp; EQUIPMENT</li> <li>41. PLANT &amp; EQUIPMENT</li> <li>42. PLANT &amp; EQUIPMENT</li> <li>43. PLANT &amp; EQUIPMENT</li> <li>44. PLANT &amp; EQUIPMENT</li> <li>45. PLANT &amp; EQUIPMENT</li> <li>46. PLANT &amp; EQUIPMENT</li> <li>47. PLANT &amp; EQUIPMENT</li> <li>48. PLANT &amp; EQUIPMENT</li> <li>49. PLANT &amp; EQUIPMENT</li> <li>50. PLANT &amp; EQUIPMENT</li> <li>51. PLANT &amp; EQUIPMENT</li> <li>52. PLANT &amp; EQUIPMENT</li> <li>53. PLANT &amp; EQUIPMENT</li> <li>54. PLANT &amp; EQUIPMENT</li> <li>55. PLANT &amp; EQUIPMENT</li> <li>56. PLANT &amp; EQUIPMENT</li> <li>57. PLANT &amp; EQUIPMENT</li> <li>58. PLANT &amp; EQUIPMENT</li> <li>59. PLANT &amp; EQUIPMENT</li> <li>60. PLANT &amp; EQUIPMENT</li> <li>61. PLANT &amp; EQUIPMENT</li> <li>62. PLANT &amp; EQUIPMENT</li> <li>63. PLANT &amp; EQUIPMENT</li> <li>64. PLANT &amp; EQUIPMENT</li> <li>65. PLANT &amp; EQUIPMENT</li> <li>66. PLANT &amp; EQUIPMENT</li> <li>67. PLANT &amp; EQUIPMENT</li> <li>68. PLANT &amp; EQUIPMENT</li> <li>69. PLANT &amp; EQUIPMENT</li> <li>70. PLANT &amp; EQUIPMENT</li> <li>71. PLANT &amp; EQUIPMENT</li> <li>72. PLANT &amp; EQUIPMENT</li> <li>73. PLANT &amp; EQUIPMENT</li> <li>74. PLANT &amp; EQUIPMENT</li> <li>75. PLANT &amp; EQUIPMENT</li> <li>76. PLANT &amp; EQUIPMENT</li> <li>77. PLANT &amp; EQUIPMENT</li> <li>78. PLANT &amp; EQUIPMENT</li> <li>79. PLANT &amp; EQUIPMENT</li> <li>80. PLANT &amp; EQUIPMENT</li> <li>81. PLANT &amp; EQUIPMENT</li> <li>82. PLANT &amp; EQUIPMENT</li> <li>83. PLANT &amp; EQUIPMENT</li> <li>84. PLANT &amp; EQUIPMENT</li> <li>85. PLANT &amp; EQUIPMENT</li> <li>86. PLANT &amp; EQUIPMENT</li> <li>87. PLANT &amp; EQUIPMENT</li> <li>88. PLANT &amp; EQUIPMENT</li> <li>89. PLANT &amp; EQUIPMENT</li> <li>90. PLANT &amp; EQUIPMENT</li> <li>91. PLANT &amp; EQUIPMENT</li> <li>92. PLANT &amp; EQUIPMENT</li> <li>93. PLANT &amp; EQUIPMENT</li> <li>94. PLANT &amp; EQUIPMENT</li> <li>95. PLANT &amp; EQUIPMENT</li> <li>96. PLANT &amp; EQUIPMENT</li> <li>97. PLANT &amp; EQUIPMENT</li> <li>98. PLANT &amp; EQUIPMENT</li> <li>99. PLANT &amp; EQUIPMENT</li> <li>100. PLANT &amp; EQUIPMENT</li> </ol>	<p>Presently, Pre-employment medical checkup of all employees and contract workers is carried out by FMO and records are maintained. Full medical checkup of all employees as well as contract workers is carried out Six-monthly and records are maintained. BCA testing for all</p>

## SIX MONTHLY EC COMPLIANCE REPORT


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

# SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.

Conditions

Compliance Status




MAHAVIR  
DIAGNOSTIC CENTRE  
EARLY DIAGNOSIS IS BETTER THAN CURE

202  
D-1, 2nd Floor, 2nd Street, Near South, New Colony, G.D. Aulakh - 110029  
Phone : 264012291  
Email: mahavir@mahavir.com

Dr. Anil R. Shah  
MBBS, AFRC

- Blood & Urine Laboratory
- Pre & Postnatal Medical & Obstetric
- Pre & Postnatal Nutrition
- Vaccination Clinic
- Comprehensive Imaging, Spinal, etc.
- Comprehensive Pathological Laboratory
- Physiotherapy, PT, etc. (In-house & Out-house)
- Diagnostic X-ray
- Lab Tests
- Subsidized for medical professionals & students



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CHEMINOVA INDIA, LIMITED GIDC PANOLI (FMC SUBSIDIARY)

NAME: Mr. Mahesh B Gandhi      BFP CODE: 147251      DATE: 18/04/2023

AGE: 38 Years    WEIGHT: 85kg    HEIGHT: 174 cm    PULSE: 76/min    BP: 120/ 84 mmHg

VISION:    RIGHT    LEFT      DEPT: Production-P2

NCAR:    M: 0    M: 0      COLOR VISION: ACCEPTABLE

FAR:    M: 0    M: 0

BLOOD EXAMINATION							
PARAMETERS	FINDINGS	UNITS	NORMAL VALUES	PARAMETERS	FINDINGS	UNITS	NORMAL VALUES
HAEMOGLOBIN	13.4	gm/dl	[12-17, F:11-16]	R.SUGAR [F]	89	mg/dl	[80-130]
WBC COUNT	8908	/mm <sup>3</sup>	[4000-11000]	S. CHOLESTEROL	102	mg/dl	[150-250]
NEUTROPHILS	69	%	[40-75]	S.G.P.T.	19	u/l	[14-30]
LYMPHOCYTES	30	%	[20-40]	S.CREATININE	0.8	mg/dl	[0.7-1.5]
EOSINOPHILS	3	%	[01-06]	RBC Count	5.30	lacs/mm <sup>3</sup>	[4.5-5.5 lacs]
MONOCYTES	1	%	[02-07]	PLATELETS	223000	/cc/mm <sup>3</sup>	[1.5-4.5 lacs]
RDW	35.2	%	[12-14]	BCA %	85	%	[70-90]
MCHC	37.7	%	[38-50]	RBC CHOLINESTERASE	890	u/ml	[775-998]
PCV	48.1	%	[38-54]	BLOOD GROUP	A	Rh	POSITIVE

PHYSICAL:		CHEMICAL:		MICROSCOPIC:	
QUANTITY:	10 ML	ALBUMIN:	Absent	RBC:	Absent
COLOR:	PALE YELLOW	GLUCOSE:	Absent	RBC CELL:	1-2/hpf
APPEARANCE:	CLEAR	BILE SALT:	Absent	CRISTAL:	Absent
ODOR:	ABSENT	BILE PIG:	Absent	EPIT CELLS:	Absent
		ACETONE:	Absent	CAST:	Absent

LUNG FUNCTION TEST			
	RESULT	PREDICTED	%PRED
FVC	3.84	3.57	108
FEV1	3.46	3.05	113
PEF	8.60	7.28	118
FEF 25-75%	3.47	3.74	93

Spirography Within Normal Limits.

AUDIOMETRY TEST						
FREQ.	800	1K	2K	4K	8K	8K
RIGHT	40	30	30	30	20	25
LEFT	30	20	15	20	30	10

E.C.G.: WITHIN NORMAL LIMIT

REMARKS: NOT SUFFERING FROM ANY INFECTIOUS OR OBSCURIOUS DISEASE

Dr. Anil R. Shah  
MBBS, AFRC

CHEMINOVA INDIA, LIMITED GIDC PANOLI (FMC SUBSIDIARY)

NAME: Ms. Sonali D Hole      BFP CODE: 1008036      DATE: 02/05/2023

AGE: 27 Years    WEIGHT: 61kg    HEIGHT: 168 cm    PULSE: 76/min    BP: 105/ 70 mmHg

VISION:    RIGHT    LEFT      DEPT: Electrical

NCAR:    M: 0    M: 0      COLOR VISION: ACCEPTABLE

FAR:    M: 0    M: 0      WITH SPECT

BLOOD EXAMINATION							
PARAMETERS	FINDINGS	UNITS	NORMAL VALUES	PARAMETERS	FINDINGS	UNITS	NORMAL VALUES
HAEMOGLOBIN	11.9	gm/dl	[12-17, F:11-16]	R.SUGAR [F]	124	mg/dl	[80-130]
WBC COUNT	7300	/mm <sup>3</sup>	[4000-11000]	S. CHOLESTEROL	186	mg/dl	[150-250]
NEUTROPHILS	71	%	[40-75]	S.G.P.T.	21	u/l	[14-30]
LYMPHOCYTES	27	%	[20-40]	S.CREATININE	1.0	mg/dl	[0.7-1.5]
EOSINOPHILS	1	%	[01-06]	RBC Count	5.70	lacs/mm <sup>3</sup>	[4.5-5.5 lacs]
MONOCYTES	1	%	[02-07]	PLATELETS	200000	/cc/mm <sup>3</sup>	[1.5-4.5 lacs]
RDW	23.3	%	[12-14]	BCA %	108	%	[70-90]
MCHC	26.1	%	[38-50]	RBC CHOLINESTERASE	380	u/ml	[775-998]
PCV	47.4	%	[38-54]	BLOOD GROUP	AB	Rh	POSITIVE

PHYSICAL:		CHEMICAL:		MICROSCOPIC:	
QUANTITY:	10 ML	ALBUMIN:	Absent	RBC:	Absent
COLOR:	PALE YELLOW	GLUCOSE:	Absent	RBC CELL:	Occasional
APPEARANCE:	CLEAR	BILE SALT:	Absent	CRISTAL:	Absent
ODOR:	ABSENT	BILE PIG:	Absent	EPIT CELLS:	Absent
		ACETONE:	Absent	CAST:	Absent

LUNG FUNCTION TEST			
	RESULT	PREDICTED	%PRED
FVC	2.98	3.88	97
FEV1	2.63	2.84	100
PEF	8.60	6.70	129
FEF 25-75%	2.87	3.46	83

Spirography Within Normal Limits.

AUDIOMETRY TEST						
FREQ.	800	1K	2K	4K	8K	8K
RIGHT	45	30	20	35	25	30
LEFT	35	35	30	30	25	15


E.C.G.: NOT DONE

REMARKS: NOT SUFFERING FROM ANY INFECTIOUS OR OBSCURIOUS DISEASE

Dr. Anil R. Shah  
MBBS, AFRC

(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 CEMS Provided at Briquette based Boiler

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





Sr. No.	Conditions	Compliance Status
	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) Mitigation measures suggested during process safety and risk assessment studies shall be undertaken accordingly.	Noted.
11.	The grant of environmental clearance is subject to compliance of other general conditions, as under:-	Noted
1	(i) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board, Central pollution Control Board, State Government and any other statutory authority.	Noted and agreed.
	(ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	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:
	<input type="checkbox"/> <input type="checkbox"/>	

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	(iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R.No. 826(E) Dated 16 <sup>th</sup> November,2009 shall be followed.	Unit follows The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R.No. 826(E) Dated 16 <sup>th</sup> November,2009
	(v) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Noise level measurement is carried out by GPCB recognized Schedule I Environment Auditor- Quarterly & by Third party recognized laboratory-Monthly Reports by Third-Party recognized lab is attached for reference



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	<div style="text-align: center;">  <b>Siddhi Green Excellence</b>  <b>PRIVATE LIMITED</b>  </div> <p style="text-align: center;"><b>TEST REPORT OF AMBIENT NOISE MEASUREMENT</b></p> <p>REPORT NO. : SC/CILID/NL/MAY/2023/10 <span style="float: right;">Date of Issue :23-05-2023</span></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Issued to</td> <td colspan="5">M/s. CHEMINOVA INDIA LTD. (INTERMEDIATE DIV.)</td> </tr> <tr> <td>Address</td> <td colspan="5">PLOT NO.27,28/A GIDC ESTATE:PANOLI, TA: ANKLESHWAR,DIST: BHARUCH-394116</td> </tr> <tr> <td>Site (where measured)</td> <td colspan="3">same as above</td> <td>Sample ID</td> <td>27728</td> </tr> <tr> <td>Date of Monitoring</td> <td colspan="3">17-05-2023</td> <td>Measured By</td> <td>Mr. Ronil</td> </tr> <tr> <td>Instrument used</td> <td colspan="3">Lutron make Noise Level Meter (Model No. SL-4030)</td> <td>Instrument ID</td> <td>SC-NM-06</td> </tr> <tr> <td>Frequency Weighing</td> <td colspan="3">A</td> <td>Time Weighing</td> <td>FAST</td> </tr> <tr> <td colspan="6">Procedure : As per Work Instruction of Instrument and as per IS-9589:1981, windcover used during measurement.</td> </tr> <tr> <td colspan="4">Environmental Conditions:</td> <td>Season</td> <td>Summer</td> </tr> <tr> <td colspan="3"><b>DAYTIME READINGS (6 AM TO 10 PM)</b></td> <td colspan="3"><b>NIGHT TIME READINGS (10 PM TO 6 AM)</b></td> </tr> <tr> <td>Time and Duration of Monitoring</td> <td colspan="2">11:59 to 14:34 h</td> <td>Time and Duration of Monitoring</td> <td colspan="2">23:55 to 01:59 h</td> </tr> <tr> <td>Average Ambient Temperature, °C</td> <td>Average Wind speed, m/s</td> <td>Predominant Wind direction</td> <td>Average Ambient Temperature, °C</td> <td>Average Wind speed, m/s</td> <td>Predominant Wind direction</td> </tr> <tr> <td>29</td> <td>2.8</td> <td>NE-SW</td> <td>26</td> <td>2.5</td> <td>NE-SW</td> </tr> <tr> <th>SR.NO.</th> <th>LOCATION</th> <th>READING NO.</th> <th>NOISE LEVEL dB(A) DAY TIME</th> <th>READING NO.</th> <th>NOISE LEVEL dB(A) NIGHT TIME</th> </tr> <tr><td>1</td><td>Near Main Gate</td><td>NL-01</td><td>60</td><td>NL-11</td><td>54</td></tr> <tr><td>2</td><td>Near ETP Area</td><td>NL-02</td><td>72</td><td>NL-12</td><td>65</td></tr> <tr><td>3</td><td>Near SBS Plant</td><td>NL-03</td><td>69</td><td>NL-13</td><td>63</td></tr> <tr><td>4</td><td>Near Boiler</td><td>NL-04</td><td>69</td><td>NL-14</td><td>63</td></tr> <tr><td>5</td><td>Near Admin area</td><td>NL-05</td><td>61</td><td>NL-15</td><td>56</td></tr> <tr><td>6</td><td>Near DG set</td><td>NL-06</td><td>60</td><td>NL-16</td><td>52</td></tr> <tr><td>7</td><td>Near Chlorine yard</td><td>NL-07</td><td>65</td><td>NL-17</td><td>59</td></tr> <tr><td>8</td><td>Near P0 Plant</td><td>NL-08</td><td>70</td><td>NL-18</td><td>64</td></tr> <tr><td>9</td><td>Near P1 Plant</td><td>NL-09</td><td>73</td><td>NL-19</td><td>67</td></tr> <tr><td>10</td><td>Near P2 Plant</td><td>NL-10</td><td>69</td><td>NL-20</td><td>65</td></tr> <tr> <td colspan="6">Permissible Limit for industrial area as per schedule of Noise Pollution (Regulation and Control) Rules, 2000</td> </tr> <tr> <td colspan="3">for Day Time In dB(A) Leq (6 AM TO 10 PM) : - 75</td> <td colspan="3">for Night Time In dB(A) Leq (10 PM TO 06 AM) : - 70</td> </tr> <tr> <td colspan="6">Additions to, deviations, or exclusions from the method :-None</td> </tr> <tr> <td colspan="6">Results from external providers, if any :-None</td> </tr> <tr> <td colspan="6">Any other remarks :- None</td> </tr> <tr> <td colspan="6">Abbreviations used :- None</td> </tr> <tr> <td colspan="2">Verified by </td> <td colspan="4">Authorized Signatory  Mrs. K. P. Shah/Mr. P.M. Shah</td> </tr> <tr> <td colspan="6"> <p>Notes : 1. Test results shall be referred to the tested sample(s) only and applicable parameter(s) only.</p> <p>2. Permissible limits if mentioned in report are given by customer and included in the report upon request by customer.</p> <p>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.</p> <p>4. The opinions and interpretations if mentioned in report are given upon request by customer and based upon material and information supplied by customer.</p> <p>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.</p> <p>6. This report shall not be used as evidence in the court of law and shall not be reproduced except in full, without prior written approval of Siddhi Green Excellence Pvt. Ltd.</p> </td> </tr> <tr> <td colspan="6" style="text-align: center;">*** End of Report ***</td> </tr> <tr> <td colspan="6" style="text-align: center;">Page 1 of 1</td> </tr> <tr> <td colspan="6">Format No. : SC/LAB/F/Report-06 Issue No. : 02 Issue Date : 31-01-2019 Revision No. : 05 Revision Date : 09-04-2022</td> </tr> <tr> <td colspan="6" style="text-align: center;">www.siddhigreen.com</td> </tr> </table>	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	27728	Date of Monitoring	17-05-2023			Measured By	Mr. Ronil	Instrument used	Lutron make Noise Level Meter (Model No. SL-4030)			Instrument ID	SC-NM-06	Frequency Weighing	A			Time Weighing	FAST	Procedure : As per Work Instruction of Instrument and as per IS-9589:1981, windcover used during measurement.						Environmental Conditions:				Season	Summer	<b>DAYTIME READINGS (6 AM TO 10 PM)</b>			<b>NIGHT TIME READINGS (10 PM TO 6 AM)</b>			Time and Duration of Monitoring	11:59 to 14:34 h		Time and Duration of Monitoring	23:55 to 01:59 h		Average Ambient Temperature, °C	Average Wind speed, m/s	Predominant Wind direction	Average Ambient Temperature, °C	Average Wind speed, m/s	Predominant Wind direction	29	2.8	NE-SW	26	2.5	NE-SW	SR.NO.	LOCATION	READING NO.	NOISE LEVEL dB(A) DAY TIME	READING NO.	NOISE LEVEL dB(A) NIGHT TIME	1	Near Main Gate	NL-01	60	NL-11	54	2	Near ETP Area	NL-02	72	NL-12	65	3	Near SBS Plant	NL-03	69	NL-13	63	4	Near Boiler	NL-04	69	NL-14	63	5	Near Admin area	NL-05	61	NL-15	56	6	Near DG set	NL-06	60	NL-16	52	7	Near Chlorine yard	NL-07	65	NL-17	59	8	Near P0 Plant	NL-08	70	NL-18	64	9	Near P1 Plant	NL-09	73	NL-19	67	10	Near P2 Plant	NL-10	69	NL-20	65	Permissible Limit for industrial area as per schedule of Noise Pollution (Regulation and Control) Rules, 2000						for Day Time In dB(A) Leq (6 AM TO 10 PM) : - 75			for Night Time In dB(A) Leq (10 PM TO 06 AM) : - 70			Additions to, deviations, or exclusions from the method :-None						Results from external providers, if any :-None						Any other remarks :- None						Abbreviations used :- None						Verified by 		Authorized Signatory  Mrs. K. P. Shah/Mr. P.M. Shah				<p>Notes : 1. Test results shall be referred to the tested sample(s) only and applicable parameter(s) only.</p> <p>2. Permissible limits if mentioned in report are given by customer and included in the report upon request by customer.</p> <p>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.</p> <p>4. The opinions and interpretations if mentioned in report are given upon request by customer and based upon material and information supplied by customer.</p> <p>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.</p> <p>6. This report shall not be used as evidence in the court of law and shall not be reproduced except in full, without prior written approval of Siddhi Green Excellence Pvt. Ltd.</p>						*** End of Report ***						Page 1 of 1						Format No. : SC/LAB/F/Report-06 Issue No. : 02 Issue Date : 31-01-2019 Revision No. : 05 Revision Date : 09-04-2022						www.siddhigreen.com					
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	27728																																																																																																																																																																																																														
Date of Monitoring	17-05-2023			Measured By	Mr. Ronil																																																																																																																																																																																																														
Instrument used	Lutron make Noise Level Meter (Model No. SL-4030)			Instrument ID	SC-NM-06																																																																																																																																																																																																														
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## SIX MONTHLY EC COMPLIANCE REPORT

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 @ 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.
	<div data-bbox="493 641 1144 1052"> <p style="text-align: center;"><b>FLOW DIAGRAM OF WATER HARVESTING SYSTEM</b></p> <p style="text-align: center;"><b>FLOW DIAGRAM OF RAIN WATER HARVESTING SCHEME AT SITE-2</b></p> </div>	

## SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status																		
	<table><tr><th colspan="2">Rain water Harvesting Details Intermediate Division</th></tr><tr><th>Month</th><th>Rain water (KL)</th></tr><tr><td>Jun-22</td><td>66</td></tr><tr><td>Jul-22</td><td>205</td></tr><tr><td>Aug-22</td><td>378</td></tr><tr><td>Sep-22</td><td>132</td></tr><tr><td>Oct-22</td><td>31</td></tr><tr><td>Nov-22</td><td>0</td></tr><tr><td>Total</td><td>811</td></tr></table>	Rain water Harvesting Details Intermediate Division		Month	Rain water (KL)	Jun-22	66	Jul-22	205	Aug-22	378	Sep-22	132	Oct-22	31	Nov-22	0	Total	811	
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Month	Rain water (KL)																			
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Jul-22	205																			
Aug-22	378																			
Sep-22	132																			
Oct-22	31																			
Nov-22	0																			
Total	811																			
	(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. Regular training is imparted to all employees.																		
	(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 stipulated by the Ministry of Environment, Forest and Climate Change as well as the state Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	Unit commits that funds earmarked for environment management/ pollution control measures shall not be diverted for any other purpose																		
	(xii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	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)	Unit regularly submits six-month report to the respective Regional Office of MoEF&CC, the respective Zonal																		

## SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status
	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.	Office of CPCB and SPCB. A copy of EC and six-monthly compliance status report is posted on the website of the company as well as regularly upload EC Compliance on PARIVESH Portal.
	(xiv) The environmental statement for each financial year ending 31 <sup>st</sup> march in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the environment (protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.	Unit is complying with the given condition. Form-V is regularly submitted to SPCB for each financial year. Copy of Form-V is attached as Annexure-5.
	(xv) The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <a href="http://moef.nic.in">http://moef.nic.in</a> . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	Complied. EC advertisement in two local newspapers in the vernacular language of the locality concerned has been done. Newspaper cutouts of the same are attached below:
	 <p><b>PUBLIC NOTICE ENVIRONMENTAL CLEARANCE</b></p> <p>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 Pesticides 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.</p> <p>Copies of Clearance Letter are available on Website of MoEF&amp;CC (PARIVESH)- <a href="http://moef.nic.in">http://moef.nic.in</a></p> <p>Dated 09/01/2020 <span style="float: right;">Authorized Signatory-SD-</span></p>	 <p><b>જાહેર સૂચના</b> <b>પર્યાવરણીય મંજૂરી</b></p> <p>આ સાથે જણાવવામાં આવે છે કે મિનિસ્ટ્રી ઓફ એન્વાયરમેન્ટ, ફોરેસ્ટ અને ક્લાઇમેટ નેશનલ યોજના દ્વારા મે. કેમિનોવા ઇન્ડિયા લિમિટેડ (ઇન્ટરમીડિયેટ ડિવિઝન) પ્લોટ નંબર (૨૭+૨૮)/A, નોટીફાઇડ ઇન્ડિસ્ટ્રીયલ એસ્ટેટ, પાનોલી-૩૯૪ ૧૧૬, તાલુકા: અંકલેશ્વર, ડિસ્ટ્રિક્ટ: ભરૂચ, રાજ્ય: ગુજરાત ખાતેના ફાલના એકમ પર સૂચિત પેસ્ટીસાઇડ્સ તથા તેના પેસ્ટીસાઇડ સ્પેસિફિક ઇન્ટરમીડિયેટ્સ ના વિસ્તરણ માટેની પર્યાવરણીય મંજૂરી ફેબ્રુઆરી, ૩૧, ૨૦૧૯ ના પત્ર દ્વારા [ફાઇલ ક્રમાંક IA-J-11011/53/2018-IA-II(I)] ઇ.આઈ.એ. નોટિફિકેશન તારીખ ૧૪ સપ્ટેમ્બર ૨૦૦૬ની જોગવાઈ હેઠળ આપેલ છે.</p> <p>પર્યાવરણીય મંજૂરીના પત્રની નકલ MoEF&amp;CC (PARIVESH) ની વેબસાઇટ (<a href="http://moef.nic.in">http://moef.nic.in</a>) ઉપર ઉપલબ્ધ છે.</p> <p>તારીખ: ૦૯/૦૧/૨૦૨૦ <span style="float: right;">સહી:--</span></p>
	(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.

## SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status
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 amendment no.: AWH-118963 dated 05/09/2022, issued vide letter no. GPCB/ANK/CCA-115(13) ID-15016/682174, valid up to 04/03/2027.

## SIX MONTHLY EC COMPLIANCE REPORT

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: <table><tr><th colspan="2">Production Details</th></tr><tr><th>Month</th><th>Quantity (MTM)</th></tr><tr><td>December 2022</td><td>434.000</td></tr><tr><td>January 2023</td><td>408.000</td></tr><tr><td>February 2023</td><td>532.430</td></tr><tr><td>March 2023</td><td>507.150</td></tr><tr><td>April 2023</td><td>482.630</td></tr><tr><td>May 2023</td><td>463.206</td></tr></table>	Production Details		Month	Quantity (MTM)	December 2022	434.000	January 2023	408.000	February 2023	532.430	March 2023	507.150	April 2023	482.630	May 2023	463.206
	Production Details																					
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	February 2023	532.430																				
	March 2023	507.150																				
	April 2023	482.630																				
	May 2023	463.206																				
	Sr. No.	Name of The Product	Existing	Applied	Total after CC&A Amendment																	
	MT / Annum																					
	1.	Phosphorus Trichloride (PCl <sub>3</sub> )/ Phosphoryl chloride (POCl <sub>3</sub> )	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 <sub>2</sub> S <sub>5</sub> )	3400	-	3400																		
6.	Fluindapyr (F 9990)	150	1200	1350																		
7.	Bixlozone (F9600)	960	4200	5160																		
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), Pyriethionac-Sodium(H), Methoxy Amine Hydrochloride (int), 2-hydroxyphenyl Acetic Acid (HPAA) (int)] etc.	150	-	150																		
9.	Amide group based products [Pretilachlor (H), Captan (F), Cymoxanil (F), Bifluthrin (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																		
10.	Azine group based product Fenpyroximate (I), Metribuzin (H), Pymetrozine (I), Armitraz (I), Indoxacarb (I), Clofentezine (I), 2 Methoxy- 4 - Methyl-6-Methylamino-1,3,5-Triazine (MMMT) (Int)] etc.	300	-	300																		
11.	Azole group based products	200	-	200																		

## SIX MONTHLY EC COMPLIANCE REPORT

CCA amendment no.: AWH-118963 dated 05/09/2022, issued vide letter no. GPCB/ANK/CCA-115(13) ID-15016/682174, valid up to 04/03/2027.

Sr. No.	Consent Condition Requirement	Compliance Status
	<div data-bbox="258 342 926 565">[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 DiChloroBenzoxazolone (Int), Penoxasulam (H)] etc.</div> <div data-bbox="258 565 926 662">12. Carbamate group based product [Thiodicarb (I), Propineb (F), Metiram (F), Thiram (F), Cartaphydrochloride (I), Thiophanate Methyl (F)] etc.</div> <div data-bbox="258 662 926 824">13. 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 Cyhathrin (I), Cypermethrin (I), Bifenazate (I), Phthalide (Int)] etc.</div> <div data-bbox="258 824 926 922">14. Ether group based products [Propargite (I), oxyfluorfen (H), S- Cyano MPB (Int), 2 Ethoxy Ethyl Amine (Int)] etc.</div> <div data-bbox="258 922 926 1019">15. Ketone group based product [Mesotrione (H), Suctioned (H), Isoxanutole (H), Dimethomorph (F), Isobutyrophenone (IBP) (Int)] etc.</div> <div data-bbox="258 1019 926 1149">16. Phosphate group based product [Chlorpyrifos (I) or its intermediate Na-TCP (Int), Acephate (I), Monocrotophos (I) or its intermediates MCMMAA (Int.), Dimethoate (I), Profenofos (I), Ethephon (PGR)] etc.</div> <div data-bbox="258 1149 926 1247">17. Pyridine group based product [Pyridalyl (I), Imazethapyr (H) CloquintocetMethyl (H), Acetamiprid (I), 4, 6-DiChloro Pyridine (Int)], Azoxystrobin (F) etc</div> <div data-bbox="258 1247 926 1360">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)]</div>	

## SIX MONTHLY EC COMPLIANCE REPORT

CCA amendment no.: AWH-118963 dated 05/09/2022, issued vide letter no. GPCB/ANK/CCA-115(13) ID-15016/682174, valid up to 04/03/2027.						
Sr. No.	Consent Condition Requirement					Compliance Status
		,SulfonylUreas (H)] etc.				
	19.	Phenol group based product [2- Cyanophenol (Int), 4- Fluro-3 trilluromethylphenole (Int)] etc.	75	-	75	
2	<u>SPECIFIC CONDITIONS</u>					
a.	Unit shall comply with all the conditions stipulated by MOEF in the order of Environment Clearance issued vide letter no. IA/J-11011/53/2018-IA-II(I), dated:31/12/2019.					Noted and complied.
b.	Unit shall maintain ZLD					Unit is maintaining ZLD.
c.	Unit shall use fresh raw materials only.					Complied. Unit is using fresh raw material only.
d.	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 endusers and submit MoU.					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.
e.	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.
f.	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.
g.	Unit shall strictly follow the Solid Fuel guideline framed by Board and shall install APCM as per guideline.					Noted and complied.
h.	Unit shall follow coal handling guideline framed by Board and provide close ash handling facility.					Unit will try to comply with this condition whenever required. Presently unit is used Natural Gas and Bagasse/ Groundnut shell/ Briquettes.
i.	Unit shall strictly follow the Fly Ash Notification for disposal of generated ash.					Complied.
j.	Unit shall install online Continuous Emission Monitoring Systems (CEMS) and link it with the server of GPCB for real time data transfer for boiler more than 8 TPH capacity or equivalent capacity of TFH.					Unit is making efforts to implement this condition.
3	<u>CONDITION UNDER THE WATER ACT:</u>					
3.1	The condition No. 3.3 for water consumption under Water Act of the CCA order No. AWH-118890, issued vide letter no. GPCB/ANK/CCA-115(13)/ID-15016/682162, dated 05/09/2022 is amended and shall now be read as under.					Complied. Water consumption is well within limits as per the condition. Water consumption details for period December 2022 to May 2023 is given below:
	Water (Qty: KL/day)	Water Consumption				
		Existing	Proposed	Total		
	Domestic	25	-	25		
						Details of Water Consumption



## SIX MONTHLY EC COMPLIANCE REPORT

CCA amendment no.: AWH-118963 dated 05/09/2022, issued vide letter no. GPCB/ANK/CCA-115(13) ID-15016/682174, valid up to 04/03/2027.							
Sr. No.	Consent Condition Requirement				Compliance Status		
	Industrial	423	280	703 (348 KLD fresh+ 355 KLD reuse)	Month	KL/Month	
	Gardening	25	-	25	December 2022	9924	
	Total	473	280	753	January 2023	9881	
					February 2023	11063	
					March 2023	11361	
					April 2023	12599	
					May 2023	13444	
3.2	The condition No. 3.1 & 3.2 for wastewater Generation under Water Act of the CCA order No.AWH-118890, issued vide letter no. GPCB/ANK/CCA-115(13)/ID-15016/682162, dated 05/09/2022 is amended and shall now be read as under.				Noted & Complied.		
	Water (Qty: KL/day)	Waste Water Generation					
		Existing	Proposed	Total			
	Domestic	25	-	25			
	Industrial	176	219	395			
	Total	201	219	420			
3.3	Mode of disposal of wastewater: a) 395 KLD industrial effluent to be treated in ETP, RO and MEE. Condensate water reused for process and washing. Hence, unit shall maintain ZLD. b) 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.				Unit is maintaining this ZLD condition thoroughly.		
	Sr. No.	Parameters	Permissible Limit				
	1	Biochemical Oxygen Demand, BOD <sub>3</sub> , 27°C	20 mg/L				
	2	Total Suspended Solids	30 mg/L				
	3	Total Residual Chlorine	Minimum 0.5 ppm				
4	CONDITIONS UNDER THE AIR ACT.						
4.1	The condition No. 4.1 for Fuel consumption under Air Act of the CCA order No. AWH-118890, issued vide letter no. GPCB/ANK/CCA-115(13)/ID-15016/682162, dated 05/09/2022 is amended and shall now be read as under.				Complied. Unit is following the given condition for fuel consumption.		
	Sr. No.	Name of fuel	Quantity				
			Existing	Proposed			Total
	1	Natural Gas	9000 m³/hr	--			9000 m³/hr
	2	HSD	90 Lit/hr	301.7 lit/hr			391.7 Lit/hr
	3	Bagasse/ Groundnut Shell/ Briquettes	2970 kg/hr	--	2970 kg/hr		

## SIX MONTHLY EC COMPLIANCE REPORT

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Sr. No.	Consent Condition Requirement					Compliance Status	
	*Unit shall not use FO as fuel.						
4.2	The condition No. 4.2 for Flue gas stacks under Air Act of the CCA order No. AWH-118890, issued vide letter no. GPCB/ANK/CCA-115(13)/ID-15016/682162, dated 05/09/2022 is amended and shall now be read as under.					Complied. Unit is following the given condition for flue gas stack emission. Analysis Report Copy attached as below:	
	Stack No.	Stack Attached To	Stack height in meter	Parameter	Permissible limits		Air pollution Control measures
	Existing						
	1.	Boiler 10 TPH & OR	32	PM SO <sub>2</sub> NO <sub>x</sub>	150 mg/Nm <sup>3</sup> 100 ppm 50 ppm		--
	2.	Boiler 10 TPH					--
	3.	D.G Set (Cap-1250 KVA)	09				--
	4.	Boiler 18 TPH	40				Dust Collector, Bag Filter
	5.	Incinerator	45				Alkali scrubber + water scrubber
	Treated flue gas emissions discharge through stack of Incinerator to atmosphere shall always be less than or equal to the following parameter-specific emission standards:						
	Parameters		Emission Standard	Sampling Duration			
	Particulates		50 mg/Nm <sup>3</sup>	30 minutes			
	HCl		50 mg/Nm <sup>3</sup>	30 minutes			
	SO <sub>2</sub>		200 mg/Nm <sup>3</sup>	30 minutes			
	CO		100 mg/Nm <sup>3</sup>	30 minutes			
			50 mg/Nm <sup>3</sup>	Standard refers to daily average value			
	Total Organic Carbon		20 mg/Nm <sup>3</sup>	30 minutes			
	HF		4 mg/Nm <sup>3</sup>	30 minutes			
	NOx (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )		400 mg/Nm <sup>3</sup>	30 minutes			
	Total dioxins and furans		0.1 ng TEQ/ Nm <sup>3</sup>	6-8 hours sampling. Please refer guidelines for 17 concerned congeners for toxic equivalence values to arrive to total toxic equivalence.			

## SIX MONTHLY EC COMPLIANCE REPORT

CCA amendment no.: AWH-118963 dated 05/09/2022, issued vide letter no. GPCB/ANK/CCA-115(13) ID-15016/682174, valid up to 04/03/2027.

Sr. No.	Consent Condition Requirement					Compliance Status											
	Cd + Th + their compounds		0.05 mg/Nm <sup>3</sup>	Sampling time anywhere between 30 minutes and 8 hours													
	Hg and Its compounds		0.05 mg/Nm <sup>3</sup>	Sampling time anywhere between 30 minutes and 8 hours													
	Sb + As + Pb + Cr + Co + Cu + Mn + Ni + V + their compounds		0.5 mg/Nm <sup>3</sup>	Sampling time anywhere between 30 minutes and 8 hours													
	NOTE: All values of outlet parameters of incinerator shall be corrected to 11% oxygen on a dry basis.																
<table><tr><th colspan="6">Proposed</th></tr><tr><td>1.</td><td>D.G Set (Cap - 1500 KVA)</td><td>30</td><td>--</td><td>PM SO<sub>2</sub> NO<sub>x</sub></td><td>150 mg/Nm<sup>3</sup> 100 ppm 50 ppm</td></tr></table>						Proposed						1.	D.G Set (Cap - 1500 KVA)	30	--	PM SO <sub>2</sub> NO <sub>x</sub>	150 mg/Nm <sup>3</sup> 100 ppm 50 ppm
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4.3	The condition No. 4.3 for Process gas stacks under Air Act of the CCA order No. AWH-118890, issued vide letter no. GPCB/ANK/CCA-115(13)/ID-15016/682162, dated 05/09/2022 is amended and shall now be read as under.					Complied. Unit is following the given condition for process gas stacks emissions. Analysis Report Copy attached as below:											
	Stack No.	Stack Attached To	Stack height in meter	Air pollution Control measures	Parameter		Permissible limits										
	Existing																
	1.	Reactor of TMP Plant	15	Water and caustic scrubber	NH <sub>3</sub>		175 mg/Nm <sup>3</sup>										
	2.	Reactor of PCl <sub>3</sub> Plant	15	Alkali Scrubber	HCl Cl <sub>2</sub>		20 mg/Nm <sup>3</sup> 09 mg/Nm <sup>3</sup>										
	3.	Emergency vent of PCl <sub>3</sub>	15	Alkali Scrubber	HCl Cl <sub>2</sub>		20 mg/Nm <sup>3</sup> 09 mg/Nm <sup>3</sup>										
	4.	Sulphur Furnace	45	Water Scrubber + Alkali Scrubber (Dhal Chamber)	PM HCl SO <sub>2</sub> NO <sub>x</sub> Cl <sub>2</sub> H <sub>2</sub> S	150 mg/Nm <sup>3</sup> 20 mg/Nm <sup>3</sup> 40 mg/Nm <sup>3</sup> 25 mg/Nm <sup>3</sup> 09 mg/Nm <sup>3</sup> 45 mg/Nm <sup>3</sup>											

## SIX MONTHLY EC COMPLIANCE REPORT









CCA amendment no.: AWH-118963 dated 05/09/2022, issued vide letter no. GPCB/ANK/CCA-115(13) ID-15016/682174, valid up to 04/03/2027.

CEA Amendment No. AWW-116755 dated 08/10/2022, issued under Order No. CE-2011-004-116755, ID: 100163217-1, valid up to 08/09/2027.

Sr. No.	Consent Condition Requirement						Compliance Status
					CO	150 mg/Nm <sup>3</sup>	
	Proposed						
	1.	Chlorine Yard	11	Alkali Scrubber	HCl Cl <sub>2</sub>	20 mg/Nm <sup>3</sup> 09 mg/Nm <sup>3</sup>	
	2.	F9990 step 5 reactor F9990 step 6 reactor	11	Water and Alkali Scrubber	HCl SO <sub>2</sub>	20 mg/Nm <sup>3</sup> 40 mg/Nm <sup>3</sup>	
	3.	Florasulam Plant	11	Alkali Scrubber	HCl	20 mg/Nm <sup>3</sup>	
	4.	Laboratory	11	Alkali Scrubber	Acid Mist	-	
	5.	By-Product Tank farm	11	Alkali Scrubber	Acid Mist	-	
	6.	F9600 / Bixlozone	11	Alkali Scrubber	HCl	20 mg/Nm <sup>3</sup>	

# SIX MONTHLY EC COMPLIANCE REPORT

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P. Shah/M.P.M. Shah</b></p> </div> </div> <p>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.</p> <p style="text-align: center;"><b>*** End of Report ***</b></p> <p>Format No. : SC/LAB/T/Report-03 Issue No. : 02 Issue Date : 31-01-2019 Revision No. : 02 Revision Date : 30-06-2020 page 1 of 2  www.siddhigreen.com</p>	SR.NO.	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1 Stack Height	11 m																																																																																																																								
2 Stack Diameter	-																																																																																																																								
3 Temperature of gas	35°C																																																																																																																								
PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS																																																																																																																					
1. SO2	mg/Nm3	IS 11255(Part 2):1985	40	15																																																																																																																					

## SIX MONTHLY EC COMPLIANCE REPORT

CCA amendment no.: AWH-118963 dated 05/09/2022, issued vide letter no. GPCB/ANK/CCA-115(13) ID-15016/682174, valid up to 04/03/2027.

Sr. No.	Consent Condition Requirement						Compliance Status	
4.4	The concentration of the following parameters in the ambient air within the premises of the industry shall not exceed the limits specified hereunder.						Unit is following this condition.	
	Sr. No.	Parameters	Permissible Limit (microgram /m³)					
			Annual		24 Hours Average			
	1.	Particulate Matter (PM <sub>10</sub> )	60		100			
	2.	Particulate Matter (PM <sub>2.5</sub> )	40		60			
	3.	Oxides of Sulphur (SO <sub>x</sub> )	50		80			
	4.	Oxides of Nitrogen (NO <sub>x</sub> )	40		80			
	Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.							
24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.								
4.6	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.						Unit is putting efforts to implement this condition thoroughly.	
5	CONDITIONS UNDER HAZARDOUS & OTHER WASTES (MANAGEMENT & TRANSBOUNDARY MOVEMENT) RULES, 2016							
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-118890, issued vide letter no. GPCB/ANK/CCA-115(13)/ID-15016/682162, dated 05/09/2022 is amended and shall now be read as under.						Complied. Disposal of hazardous waste is as per granted quantity by GPCB.	
	Sr. No.	Name of Haz. Waste	Category Number	Quantity (MT /Annum)				Mode of disposal & remarks
				Existing	Proposed	Total		
	1.	ETP Sludge	35.3	1800	615	2415		Collection, Storage, Transportation, Disposal at TSDF – BEIL & SEPPL/ Safe Enviro.
	2.	Used Oil	5.1	11.04	-	11.04		Collection, Storage, Transportation, Disposal by Reuse in plant & machinery as lubricant or sell it to authorized re-refiners/ recycler.
	3.	Discarded Container Bags/ Liners	33.1	1943	-	1943		Collection, Storage, Decontamination, sale to authorize traders, Decontamination Facility / scrap dealers. Used Bags / Liners to BEIL/ SEPPL/ Safe Enviro or others.
	4.	Process	29.1	12821	3520	16341		Collection, Storage, Transportation, Disposal

## SIX MONTHLY EC COMPLIANCE REPORT

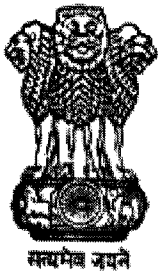
CCA amendment no.: AWH-118963 dated 05/09/2022, issued vide letter no. GPCB/ANK/CCA-115(13) ID-15016/682174, valid up to 04/03/2027.

Sr. No.	Consent Condition Requirement						Compliance Status
		Waste & Residue					
	5.	Solid waste / Evaporation salt	29.1	9259	5233	14492	
	6.	Recovered sulfur	B-37	4320	-	4320	
	7.	Sodium Hydro sulfide 30%	-	3240	1626	4866	
	8.	Hydrochloric Acid 30%	B-15	4152	2651	6803	
	9.	Phosphoric Acid	B-15	1460	415	1875	
	10.	Spent Sulphuric acid (20%)	B-15	-	23378	23378	
	11.	Sodium Bisulphite Powder	B-23	2250	555	2805	
	12.	Sodium	B-23	7440	1295	8735	



## SIX MONTHLY EC COMPLIANCE REPORT

CCA amendment no.: AWH-118963 dated 05/09/2022, issued vide letter no. GPCB/ANK/CCA-115(13) ID-15016/682174, valid up to 04/03/2027.								
Sr. No.	Consent Condition Requirement							Compliance Status
		Bisulphite Solution (30%)					and after making MOU	
	13.	Sodium Sulphite (20-30%)	B-15	3775	4704	8479		
	14.	Acetic acid (30%)	B-28	-	2413	2413	Collection, Storage, Transportation & reuse in process in house.	
6	All other conditions of the CCA order No: AWH-118890, issued vide letter no. GPCB/ANK/CCA-115(13)/ID-15016/682162, dated 05/09/2022 will remain same.							Noted.



**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: 31<sup>st</sup> 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](mailto: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 18<sup>th</sup> 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 <sub>3</sub> )/ Phosphoryl chloride (POCl <sub>3</sub> )	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 <sub>2</sub> S <sub>5</sub> )	3400	--	3400
6.	Acid based products [2-bromobutyric Acid (int), ethyl 2-( 4-hydroxy phenoxy) propionate (O-HPPA) (int), Thiocyclam (I), Bispyribac-Sodium	150	--	150

	(H),Pyrrithiobac-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), (Safener)Isxadifen 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 Cyhathrin (I), Cypermethrin (I), Bifenazate (I), Phthalide (Int) etc.	300	--	300
13.	Ether group based products [Propargite (I), oxyfuorfen (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) CloquintocetMexyl (H), Acetamiprid (I), 4, 6-DiChloro Pyridine (Int)], Azoxystrobin (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-dimethylisoxazolidin-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.	Triflurosulfuron Methyl	--	50	50
35.	Azimsulfuron	--	4	4
36.	Flupyrsulfuron Methyl Sodium	--	12	12
<b>Total</b>		<b>19705</b>	<b>27976</b>	<b>47681</b>

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

9. The proposal for environmental clearance was considered by the EAC (Industry-2) in its meetings held on 8-9<sup>th</sup> 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 31<sup>st</sup> October 2019 and Ministry's communication dated 24<sup>th</sup> October 2019 regarding compliance of Hon'ble NGT order dated 19.8.2019 (published on 23.8.2019) in OA No. 1038/2018.

11. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for **Expansion of 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 24<sup>th</sup> October, 2019 and forwarded by Central Pollution Control Board vide letter dated 25<sup>th</sup> October, 2019 to the SPCB's, while issuing the CTE/CTO for the project, for improvement of environmental quality in the area.
- (ii) 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 13<sup>th</sup> 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<sub>50</sub><100 mg/kg shall be produced. Also, no raw material/solvent prohibited by the concerned regulatory authorities from time to time, shall be used for production of pesticides.
- (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 16<sup>th</sup> November, 2009 shall be followed.
- (v) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (vi) The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.
- (vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- (viii) The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the 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' / Scientist E  
पर्यावरण, वन एवं जलवायु परिवर्तन विभाग  
Min. of Environment, Forest and Climate Change  
भारत सरकार, नई दिल्ली  
Govt. of India, New Delhi

**Copy to: -**

1. The Deputy DGF (C), MoEF&CC Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal -16
2. The Secretary, Forests and Environment Department, Government of Gujarat, Block 14, 8th Floor, Sachivalaya, Gandhinagar (Gujarat) -10
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10A, Gandhinagar (Gujarat) - 10
5. The District Collector, District Bharuch (Gujarat)
6. Guard File/Monitoring File/Website/Record File

(Dr. R. B. Lal)  
Scientist E



# GUJARAT POLLUTION CONTROL BOARD

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

By R.P.A.D.  
CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A - Amendment)  
**CCA AMENDMENT NO: AWH -118963**

**NO: GPCB/ANK/CCA-115(13)/ID-15016/**

**DT:\_\_\_/09/2022**

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. 203050 dated 27/09/2021.  
(2) CCA No. AWH - 118890 dated: 05/09/2022 (CCA Renewal)

Sir,

This has reference to the CCA order No: **AWH-118890**, issued vide letter no. **GPCB/ANK/CCA-115(13)/ID-15016/682162**, dated **05/09/2022** under the provisions of the various Environmental Act/ Rules, which stands amended as under.

**The Validity of this order will be up to 04/03/2027.**

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

Sr. No.	Products	Quantity (MT/Year)		
		Existing	Proposed	Total
1	Phosphorus Trichloride ( $PCl_3$ )/ Phosphoryl chloride ( $POCl_3$ )	1000	-	1000
2	Tri methyl phosphate (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	Fluindapyr (F 9990)	150	1200	1350
7	Bixlozone (F9600)	960	4200	5160
8	Acid based products [2-bromobutyric Acid (int), amino acid (int), ethyl 2-(4-hydroxy phenoxy) propionated (O-HPPA) (int), Thiocyclam (I), Baspyribac-Sodium (H), Pyriothiobac-Sodium(H), Methoxy Amine Hydrochloride (int), 2-hydroxyphenyl Acetic Acid (HPAA) (int)] etc.	150	-	150

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9	Amide group based products [Pretilachlor (H), Captan (F), Cymoxanil(F), Bflubutamide(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
10	Azine group based product Fenpyroximate (I), Metribuzin (H), Pymetrozine (I), Amitraz (I), Indoxacarb (I), Clofentezine(I), 2 Methoxy-4- Methyl-6- Methylamino- 1,3,5- Triazine (MMMT) (int)/etc.	300	-	300
11	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), Irnidacloprid (I) 2,6 Dichloro Benzoxazolone (Int), Penoxasulam (H)] etc.	200	-	200
12	Carbamate group based product [Thiodicarb (I), Propineb (F), Metiram (F), Thiram (F), Cartap hydrochloride (I), Thiophanate Mrthyl (F)] etc.	500	-	500
13	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 Cyhathrin (I), Cypermethrin (I), Bifenazate (I), Phthalide (Int) etc.	300	-	300
14	Ether group based products [Propargite (I), oxyfluorfen (H), S- Cyano MPB (Int), 2 Ethoxy Ethyl Amine (Int)] etc.	200	-	200
15	Ketone group based product [Mesotrione (H), Suctioned (H), Isoxanutole (H), Dimethomorph (F),	1200	-	1200



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	Isobutyrophenone (IBP (Int)] etc.			
16	Phosphate group based product [Chlorpyrifos (I) or its intermediate Na-TCP (Int, Acephate (I), Monocrotophos (I) or its intermediates MCMMAA (Int.), Dimethoate (I) Profenofos (I), Ethephon (PGR)] etc.	5000	-	5000
17	Pyridine group based product [Pyridalyl (I), Imazethapyr (H) Cloquintocct Mexyl (H), Acetamiprid(I), 4,6- Di Chloro Pyridine (Int], Azoxvstrobins (F) etc.	250	-	250
18	Urea group based product [Buprofezin (I), Lufenuron (I), Linuron (H), Diafenthiuron (I), Diuron (H), Novaluron (I), Chlorimuron (int), Hexythiazox (I) Spiromesifen (I), Azmsulfuron (H), Sulfonyl Ureas (H)] etc.	100	-	100
19	Phenol group based product [2-Cyanophenol (Int), 4-Fluro-3 trilluromethyl phenol (Int)] etc.	75	-	75

## 2. Specific conditions:

- Unit shall comply with all the conditions stipulated by MoEF in the order of Environment Clearance issued vide letter no.IA-J-11011/53/2018-IA-II(I), dated: 31/12/2019.
- Unit shall maintain ZLD.
- Unit shall use fresh raw material only.
- Unit shall sell out their hazardous waste to authorized endusers who is having authorization with valid CCA and rule 9 permission to receive this waste. Unit shall make MoU with such authorized endusers and submit MoU.
- All the efforts shall be made to send hazardous waste to cement industry for Co-processing first & there after it shall be disposed through other option.
- Unit shall follow spent solvent management guideline framed by board and shall make MoU with outside distillation units, if any. Also submit the prescribed forms as per guideline.
- Unit shall strictly follow the Solid Fuel guideline framed by Board and shall install APCM as per guideline.
- Unit shall follow coal handling guideline framed by Board and provide close ash handling facility.
- Unit shall strictly follow the Fly Ash Notification for disposal of generated ash.
- Unit shall install online Continuous Emission Monitoring Systems (CEMS) and link it with the server of GPCB for real time data transfer for boiler more than 8 TPH capacity or equivalent capacity of TFH.

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**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-118890, issued vide letter no. GPCB/ANK/CCA-115(13)/ID-15016/682162, dated 05/09/2022 is amended and shall now be read as under.

Water (Qty: KL/day)	Water consumption		
	Existing	Proposed	Total
Domestic	25	-	25
Industrial	423	280	703 (348 KLD Fresh + 355 KLD Reuse)
Gardening	25	-	25
<b>Total</b>	<b>473</b>	<b>280</b>	<b>753</b>

- 3.2 The condition No. 3.1 & 3.2 for Wastewater Generation under Water Act of the CCA order No: AWH-118890, issued vide letter no. GPCB/ANK/CCA-115(13)/ID-15016/682162, dated 05/09/2022 is amended and shall now be read as under.

Water (Qty: KL/day)	Wastewater Generation		
	Existing	Proposed	Total
Domestic	25	-	25
Industrial	176	219	395
<b>Total</b>	<b>201</b>	<b>219</b>	<b>420</b>

**3.3 Mode of disposal of wastewater:**

- a) 395 KLD industrial effluent to be treated in ETP, RO and MEE. Condensate water reused for process and washing. Hence, unit shall maintain ZLD.
- b) Sewage shall be disposed off through septic tank/ soak pit system or shall be treated separately in Sewage Treatment Plant (STP) to conform the following standards and treated sewage shall be utilized on land for irrigation / plantation.

Sr. No.	PARAMETERS	PERMISSIBLE LIMIT
1	Biochemical Oxygen Demand, BOD <sub>3</sub> , 27° C	20 mg/L
2	Total Suspended Solids (TSS)	30 mg/L
3	Total Residual Chlorine	Minimum 0.5 ppm

**4. CONDITIONS UNDER THE AIR ACT:**

- 4.1 The condition No. 4.1 for Fuel Consumption under Air Act of the CCA order No: AWH-118890, issued vide letter no. GPCB/ANK/CCA-115(13)/ID-15016/682162, dated 05/09/2022 is amended and shall now be read as under.

Sr. No.	Name of fuel	Quantity		
		Existing	Proposed	Total
1	Natural Gas	9000 m <sup>3</sup> /hr	--	9000 m <sup>3</sup> /hr
2	HSD	90 Lit/hr	301.7 Lit/hr	391.Lit/hr
3	Bagasse/ Groundunt shell/ Briquettes	2970 kg/hr	--	2970 kg/hr

\* Unit shall not use FO as fuel.



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4.2 The condition No. 4.2 for Flue gas stacks under Air Act of the CCA order No: AWH-118890, issued vide letter no. GPCB/ANK/CCA-115(13)/ID-15016/682162, dated 05/09/2022 is amended and shall now be read as under.

Stack No.	Stack attached to	Stack Height in Meter	Air Pollution Control Measure (APCM)	Parameter	Permissible limit
	Existing				
1	Boiler (10 TPH)	32	-	PM SO2 NOx	150 mg/NM3 100 ppm 50 ppm
2	Boiler (10 TPH)		-		
3	D.G. Set (1250 KVA)	9	-		
4	Boiler (18 TPH)	40	Dust collector, Bag filter		
5	Incinerator	45	Alkali scrubber + water scrubber	Parameters as Mentioned below	

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

PARAMETER	EMISSION STANDARD	SAMPLING DURATION
Particulates	50 mg/Nm3	30 Minutes
HCl	50 mg/Nm3	30 Minutes
SO2	200 mg/Nm3	30 Minutes
CO	100 mg/Nm3	30 Minutes
	50 mg/Nm3	Standard refers to daily average value
Total Organic Carbon	20 mg/Nm3	30 Minutes
HF	4 mg/Nm3	30 Minutes
NOX (NO and NO2 expressed as NO2 )	400 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.
Cd + Th + their compounds	0.05 mg/Nm3	Sampling time anywhere between 30 minutes and 8 hours.
Hg and its compounds	0.05 mg/Nm3	Sampling time anywhere between 30 minutes and 8 hours.
Sb + As + Pb + Cr + Co + Cu + Mn + Ni + V + their compounds	0.5 mg/Nm3	Sampling time anywhere between 30 minutes and 8 hours.

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

Proposed					
1	D.G. Set (1500 KVA)	30	-	PM SO2 NOx	150 mg/NM3 100 ppm 50 ppm

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- 4.3 The condition No. 4.3 for Process gas stacks under Air Act of the CCA order No: AWH-118890, issued vide letter no. GPCB/ANK/CCA-115(13)/ID-15016/682162, dated 05/09/2022 is amended and shall now be read as under.

Stack No.	Stack attached to	Stack Height in Meter	Air Pollution Control Measure (APCM)	Parameter	Permissible limit
<b>Existing</b>					
1	Reactor of TMP Plant	15	Water and caustic scrubber	NH <sub>3</sub>	175 mg/Nm <sup>3</sup>
2	Reactor of PCL <sub>3</sub> plant	15	Alkali Scrubber	HCl Cl <sub>2</sub>	20 mg/Nm <sup>3</sup> 09 mg/Nm <sup>3</sup>
3	Emergency vent of PCL <sub>3</sub>	15	Alkali Scrubber	HCl Cl <sub>2</sub>	20 mg/Nm <sup>3</sup> 09 mg/Nm <sup>3</sup>
4	Sulphur Furnace	45	Water Scrubber + Alkali Scrubber (Dhal chamber)	PM HCl SO <sub>2</sub> Cl <sub>2</sub> H <sub>2</sub> S CO NO <sub>x</sub>	150 mg/Nm <sup>3</sup> 20 mg/Nm <sup>3</sup> 40 mg/Nm <sup>3</sup> 09 mg/Nm <sup>3</sup> 45 mg/Nm <sup>3</sup> 150 mg/Nm <sup>3</sup> 25 mg/Nm <sup>3</sup>
<b>Proposed</b>					
1	Chlorine Yard	11	Alkali Scrubber	HCl Cl <sub>2</sub>	20 mg/Nm <sup>3</sup> 09 mg/Nm <sup>3</sup>
2	F9990 step 5 reactor F9990 step 6 reactor	11	Water Scrubber + Alkali Scrubber	HCl SO <sub>2</sub>	20 mg/Nm <sup>3</sup> 40 mg/Nm <sup>3</sup>
3	Florasulam plant	11	Alkali Scrubber	HCl	20 mg/Nm <sup>3</sup>
4	Laboratory	11	Alkali Scrubber	Acid mist	-
5	By-product tank farm	11	Alkali Scrubber	Acid mist	-
6	F9600/Bixlozone	11	Alkali Scrubber	HCl	20 mg/Nm <sup>3</sup>

- 4.4 The concentration of the following parameters in the ambient air within the premises of the industry shall not exceed the limits specified hereunder.

Sr. No.	Parameters	Permissible Limit (microgram /M <sup>3</sup> )	
		Annual	24 Hours Average
1.	Particulate Matter (PM <sub>10</sub> )	60	100
2.	Particulate Matter (PM <sub>2.5</sub> )	40	60
3.	Oxides of Sulphur (SO <sub>x</sub> )	50	80
4.	Oxides of Nitrogen (NO <sub>x</sub> )	40	80





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- Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.
  - 24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.
- 4.6 Unit shall operate industrial plant / air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the standards specified in condition as above.
- 5 **CONDITIONS UNDER HAZARDOUS & OTHER WASTES (MANAGEMENT & TRANSBOUNDARY MOVEMENT) RULES, 2016**
- 5.1 Unit shall comply with provisions of Hazardous & Other Wastes (Management & Transboundary Movement) Rules-2016.
- 5.2 The condition No. 6.2 under authorization for Hazardous & other wastes of the CCA order No: AWH-118890, issued vide letter no. GPCB/ANK/CCA-115(13)/ID-15016/682162, dated 05/09/2022 is amended and shall now be read as under.

Sr. No.	Name of Haz. Waste	Cate. Number	Quantity in MT/Year			Facility
			Exi.	Pro.	Total	
1	ETP Sludge	35.3	1800	615	2415	Collection, Storage , Transportation, disposal at TSDF-BEIL & SEPPL/ Safe Enviro.
2	Used Oil	5.1	11.04	-	11.04	Collection, Storage, Transportation and Disposal by Reuse in plant & machinery as lubricant or sell it to authorized re-refiners / recycler.
3	Discarded Container Bags/Liners	33.1	1943	-	1943	Collection, Storage , Decontamination, sale to authorize traders, Decontamination Facility/scrap dealers. Used Bags/Liners to BEIL/ SEPPL/Safe Enviro or others.
4	Process Waste & Residue	29.1	12821	3520	16341	Collection, Storage , Transportation, Disposal at common incineration facilities at BEIL/SEPPL/ GSPL/ PALSANA/ RSPL/Co-processing in cement industries / Eco waste.
5	Solid waste/ Evaporati	29.1	9259	5233	14492	Collection, Storage , Transportation, disposal at TSDF facility of

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	on salt					BEIL/SEPPL/ RSPL/ Co-processing in cement industries/ safe enviro/ eco waste.
6	Recovered sulfur	B37	4320	-	4320	Collection, Storage , Transportation, disposal at TSDF-BEIL & SEPPL/ Safe Envir/ eco waste.
7	Sodium Hydro sulfide 30 %	-	3240	1626	4866	Collection, storage, transportation & sold to actual users or authorized party having permission under rule-9 and after making MOU/ Send to MEE at external facility/ Send for co-processing at external facility/Send for Incineration to CHWIF facilities at BEIL/SEPPL/ RSPL/ Co-processing in cement industries. At external facility/ Send for dryer at external facility.
8	Hydrochloric Acid 30 %	B-15	4152	2651	6803	Collection, Storage, Transportation & Disposal by sell out to authorized users who are having authorization with valid CTO and permission under rule-9 to receive the waste and after making MOU.
9	Phosphoric Acid	B-15	1460	415	1875	
10	Spent Sulphuric acid (20 %)	B-15	-	23378	23378	Collection, Storage, Transportation & Disposal by sending for co-processing OR to CHWIF for incineration facility at BEIL/SEPPL.
11	Sodium Bisulphite Powder	B-23	2250	555	2805	Collection, Storage, Transportation & Disposal by sell out to authorized users who are having authorization with valid CTO and permission under rule-9 to receive the waste and after making MOU.
12	Sodium Bisulphite Solution (30%)	B-23	7440	1295	8735	
13	Sodium Sulfite (20-30%)	B-15	3715	4704	8479	
14	Acetic acid (30%)	B-28	-	2413	2413	Collection, Storage, Transportation & reuse in process in house.



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- 6 All other conditions of the CCA order No: AWH-118890, issued vide letter no. GPCB/ANK/CCA-115(13)/ID-15016/682162, dated 05/09/2022 will remain same.

For and on behalf of  
GUJARAT POLLUTION CONTROL BOARD

(Arun G. Patel)  
ENVIRONMENT ENGINEER

Outward No:682174, 05/09/2022

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By R.P.A.D.

## CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A) CCA NO: AWH- 118890

NO: GPCB/ANK/CCA- 115(13)/ID-15016/

DT: \_\_\_/09/2022

In exercise of the power conferred under Section-25 of the Water (Prevention and Control of Pollution) Act-1974, under Section-21 of the Air (Prevention and Control of Pollution) Act-1981 and Authorization under rule 6(2) of the Hazardous & Other Wastes (Management and Transboundary Movement) Rules-2016, framed under the E(P)Act-1986.

And whereas Board has received consolidated application dated 12/04/2022 and inward no. 211771 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.,  
PLOT NO: 27,28,  
GIDC ESTATE PANOLI,  
DIST-BHARUCH.

1. Consent Order No. : AWH-118890 date of Issue 23/05/2022.
2. The consent under Water Act-1974 for conveying the industrial effluent to the CETP of M/s. NCT 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 04/03/2027** to operate industrial plant to manufacture following products:

Sr. No.	Products	Quantity (MT/Year)
1	Phosphorus Trichloride ( $PCl_3$ )/ Phosphoryl chloride ( $POCl_3$ )	1000
2	Tri methyl phosphate (TMP) or tri ethyl Phosphite (TEP)	100
3	Diethyl Thio Phosphoryl Chloride (DETPC)/ Sodium salt of Diethyl Thio Phosphoryl Chloride (Na-DETA)	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) propionated (O-HPPA) (int), Thiocyclam (I), Baspyribac-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),	150

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	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.	
10	Azine group based product Fenpyroximate (I), Metribuzin (H), Pymetrozine (I), Amitraz (I), Indoxacarb (I), Clofentezine(I), 2 Methoxy-4- Methyl-6- Methylamino-1,3,5-Triazine (MMMT) (int)/etc.	300
11	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), Irnidacloprid (I) 2,6 Dichloro Benzoxazolone (Int), Penoxasulam (H)] etc.	200
12	Carbamate group based product [Thiodicarb (I), Propineb (F), Metiram (F), Thiram (F), Cartap hydrochloride (I), Thiophanate Mrthyl (F)] etc.	500
13	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
14	Ether group based products [Propargite (I), oxyfuorfen (H), S-Cyano MPB (Int), 2 Ethoxy Ethyl Amine (Int)] etc.	200
15	Ketone group based product [Mesotrione (H), Suctioned (H), Isoxanutole (H), Dimethomorph (F), Isobutyrophenone (IBP (Int] etc.	1200
16	Phosphate group based product [Chlorpyrifos (I) or its intermediate 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- Di Chloro Pyridine (Int], Azoxvstrobin (F) etc.	250
18	Urea group based product [Buprofezin (I), Lufenuron (I), Linuron (H), Diafenthuron (I), Diuron (H), Novaluron (I), Chlorimuron (int), Hexythiazox (I) Spiromesifen (I), Azmsulfuron (H), Sulfonyl Ureas (H)] etc.	100
19	Phenol group based product [2-Cyanophenol (Int), 4-Fluro-3 trilluromethyl phenol (Int)] etc.	75
	<b>Total</b>	<b>19615</b>



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## Specific conditions:

- a) Unit shall comply with all the conditions stipulated by MoEF in the order of Environment Clearance issued vide letter no.IA-J-11011/53/2018-IA-II(I), dated: 31/12/2019.
- b) Unit shall use fresh raw material only.
- c) Unit shall sell out their hazardous waste to authorized endusers who is having authorization with valid CCA and rule 9 permission to receive this waste. Unit shall make MoU with such authorized endusers and submit MoU.
- 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.
- e) 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.
- f) Unit shall strictly follow the Solid Fuel guideline framed by Board and shall install APCM as per guideline.
- g) Unit shall strictly follow the Fly Ash Notification for disposal of generated ash.
- h) Unit shall install online Continuous Emission Monitoring Systems (CEMS) and link it with the server of GPCB for real time data transfer for boiler more than 8 TPH capacity or equivalent capacity of TFH.

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

- 3.1 The quantity of total water consumption shall not exceed **473 KL/Day** as per below break up as mentioned in form D submitted for consent application under Water Act- 1974.
  - a) Domestic: 25 KL/Day
  - b) Industrial: 423 KL/Day
  - c) Gardening: 25 KL/Day
- 3.2 The quantity of total waste water generation shall not exceed **201 KL/Day** as per below break up as mentioned in form D submitted for consent application under Water Act-1974.
  - a) Domestic: 25 KL/Day
  - b) Industrial: 176 KL/Day
- 3.3 Mode of disposal of wastewater:
  - a) 176 KLD industrial effluent sent to M/s. NCT.
  - b) Sewage shall be disposed off through septic tank/soak pit system.
- 3.4 The quality of industrial effluent shall conform to the following standards (as per GPCB norms, whichever is applicable) (For discharge into CETP- NCT)

Sr. No.	PARAMETERS	PERMISSIBLE LIMIT
1	pH	6.5 to 8.5
2	Temperature	40° C
3	Colour (pt.co.scale)	100 units
4	Total Suspended Solids (TSS)	150 mg/l
5	Total Dissolved Solids (TDS)	10000 mg/l

6	Biochemical Oxygen Demand, BOD <sub>3</sub> , 27° C	200 mg/l
7	Chemical Oxygen Demand (COD)	1000 mg/l
8	Oil and Grease( O & G)	10 mg/l
9	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	5 mg/l
10	Sulphide (as S)	5 mg/l
11	Ammonical Nitrogen (as N)	50 mg/l
12	Total Kjeldahl Nitrogen (as N)	50 mg/l
13	Phosphate (as P)	5 mg/l
14	Chlorides (as Cl)	1000 mg/l
15	Sulphates (as SO <sub>4</sub> )	1000 mg/l
16	Cyanide (as CN)	0.2 mg/l
17	Fluoride (as F)	15 mg/l
18	Hexavalent Chromium (as Cr+6)	0.1 mg/l
19	Total Chromium (as Cr)	2 mg/l
20	Copper (as Cu)	3 mg/l
21	Nickel (as Ni)	3 mg/l
22	Zinc (as Zn)	15 mg/l
23	Iron (as Fe)	3 mg/l
24	Manganese (as Mn)	2 mg/l
25	Mercury (as Hg)	0.01 mg/l
26	Lead (as Pb)	0.1 mg/l
27	Arsenic (as As)	0.2 mg/l
28	Vanadium (as V)	0.2 mg/l
29	Cadmium (as Cd)	0.05 mg/l
30	Selenium (as Se)	0.05 mg/l
31	Bio-assay test	90 % Survival of fish after 96 hours in 100 % effluent
32	Insecticides/ Pesticides	Absent

- 3.5 The effluent conforming to the above standards shall be discharged into G.I.D.C. underground drainage system and conveyed to FETP (NCT) 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 NCT unit member shall intimate to NCT 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 NCT. 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 NCT.
- 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 NCT.



# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,

GANDHINAGAR - 382010,

(T) 079-23232152

- 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, NCT membership number & date of joining of NCT, the electricity consumer number as on the record of DGVCL.
- 3.13 Unit shall have to display on-line data outside the main factory gate with regard to and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises.
- 3.14 Unit shall either stop or curtail its production activities if the effluent is not adequately treated by the FETP of NCT to conform to the standards specified by GPCB.
- 3.15 The authorized representative of NCT 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 NCT.



- 3.21 If the NCT authority terminates the membership of CETP, the NCT member unit shall have to close down the manufacturing activities/industrial operation of the process plant immediately until the NCT 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 30<sup>th</sup> June every year.
- 3.24 Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is at least 1000 trees per acre of land and a green belt of 5 meters width is developed.
- 3.25 In case of change of ownership/ management the name and address of the new ownership/ partners/ directors/ proprietor should immediately be intimate to the Board. Also any change in equipment or working conditions as mentioned in the consents form/ order should immediately be intimated to this Board.
- 3.26 The Board reserves the right to review and/or revoke the consent and / or make modifications in the conditions which it seems fit in accordance with provisions of Water Act-1974.

#### 4. CONDITIONS UNDER THE AIR ACT:

- 4.1 The following shall be used as fuel:

Sr. No.	Name of fuel	Quantity
1	Natural Gas	9000 m <sup>3</sup> /hr
2	HSD	90 Lit/hr
3	Bagasse/ Groundunt shell/ Briquettes	2970 kg/hr

\* Unit shall not use FO as fuel.

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

Stack No.	Stack attached to	Capacity	Stack Height in Meter (From G.L.)	Air Pollution Control Measure (APCM)	Parameter	Permissible limit
1.	Boiler	10 TPH	32	-	PM	150 mg/NM3
2	Boiler	10 TPH		-	SO2	100 ppm

3	D.G. Set	1250 KVA	9	-	NOx	50 ppm
4	Boiler	18 TPH	40	Dust collector, Bag filter		
5	Incinerator	-	45	Alkali scrubber + water scrubber	Parameters as Mentioned below	

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

PARAMETER	EMISSION STANDARD	SAMPLING DURATION
Particulates	50 mg/Nm3	30 Minutes
HCl	50 mg/Nm3	30 Minutes
SO2	200 mg/Nm3	30 Minutes
CO	100 mg/Nm3	30 Minutes
	50 mg/Nm3	Standard refers to daily average value
Total Organic Carbon	20 mg/Nm3	30 Minutes
HF	4 mg/Nm3	30 Minutes
NOX (NO and NO2 expressed as NO2 )	400 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.
Cd + Th + their compounds	0.05 mg/Nm3	Sampling time anywhere between 30 minutes and 8 hours.
Hg and its compounds	0.05 mg/Nm3	Sampling time anywhere between 30 minutes and 8 hours.
Sb + As + Pb + Cr + Co + Cu + Mn + Ni + V + their compounds	0.5 mg/Nm3	Sampling time anywhere between 30 minutes and 8 hours.

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:

Stack No.	Stack attached to	Stack Height in Meter (From G.L.)	Air Pollution Control Measure (APCM)	Parameter	Permissible limit
1.	Reactor of TMP Plant	15	Water and caustic scrubber	NH <sub>3</sub>	175 mg/Nm <sup>3</sup>
2	Reactor of PCL <sub>3</sub> plant	15	Alkali Scrubber	HCl Cl <sub>2</sub>	20 mg/Nm <sup>3</sup> 09 mg/Nm <sup>3</sup>
3	Emergency vent of PCL <sub>3</sub>	15	Alkali Scrubber	HCl Cl <sub>2</sub>	20 mg/Nm <sup>3</sup> 09 mg/Nm <sup>3</sup>

4	Sulphur Furnace	45	Water Scrubber + Alkali Scrubber (Dhal chamber	PM	150 mg/Nm <sup>3</sup>
				HCl	20 mg/Nm <sup>3</sup>
				SO <sub>2</sub>	40 mg/Nm <sup>3</sup>
				Cl <sub>2</sub>	09 mg/Nm <sup>3</sup>
				H <sub>2</sub> S	45 mg/Nm <sup>3</sup>
				CO	150 mg/Nm <sup>3</sup>
				NO <sub>x</sub>	25 mg/NM <sup>3</sup>

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

Sr. No.	Parameters	Permissible Limit (microgram /m <sup>3</sup> )	
		Annual	24 Hours Average
1.	Particulate Matter (PM <sub>10</sub> )	60	100
2.	Particulate Matter (PM <sub>2.5</sub> )	40	60
3.	Oxides of Sulphur (SO <sub>x</sub> )	50	80
4.	Oxides of Nitrogen (NO <sub>x</sub> )	40	80

- Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.
- 24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

- 4.4 Unit shall operate industrial plant / air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the standards specified as above.
- 4.5 The consent to operate the industrial plant shall lapse if at any time the parameters of the gaseous emission are not within the tolerance limits specified as above.
- 4.6 Unit shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 4.7 Unit shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB(a) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6a.m. 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 GENERAL CONDITIONS: -

- 5.1 In case of change of ownership/ management the name and address of the new ownership/ partners/ directors/ proprietor should immediately be intimate to the Board. Also any change in equipment or working conditions as mentioned in the consents form/ order should immediately be intimated to this Board.
- 5.2 Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is at least 1000 trees per acre of land and a green belt of 5 meters width is developed.
- 5.3 Unit shall put up at the entrance a board displaying the name of unit, particulars of the products/ process and the name of proprietor/partners /directors of the unit and the electricity consumer number as on the record of DGVCL.



# GUJARAT POLLUTION CONTROL BOARD

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

6. **AUTHORISATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES Form-2 (See rule 6(2)).**
- 6.1 Number of authorization: **AWH-118890 date of Issue 23/05/2022.**
- 6.2 **M/s. CHEMINOVA INDIA LTD** is hereby granted an authorization to operate facility for following hazardous wastes on the premises situated at **PLOT NO: 27,28, GIDC ESTATE PANOLI, DIST: BHARUCH.**

Sr. No.	Name of Haz. Waste	Cate. Num.	Quantity in MT/Year	Facility
1	ETP Sludge	35.3	1800	Collection, Storage , Transportation, disposal at TSDF-BEIL / SEPPL.
2	Used Oil	5.1	11.04	Collection, Storage, Transportation and Disposal by Reuse in plant & machinery as lubricant or sell it to authorized re-refiners / recycler.
3	Discarded Container Bags/Liners	33.1	1943	Collection, Storage , Decontamination, sale to authorize traders, Decontamination Facility/scrap dealers. Used Bags/Liners to BEIL/ Detox/ SEPPL/Safe Enviro or others.
4	Process Waste & Residue	29.1	12821	Collection, Storage , Transportation, disposal at TSDF facility of BEIL/SEPPL/ GSPL/ PALSANA,/ RSPL/ Co-processing in cement industries.
5	Solid waste/ Evaporation salt	29.1	9259	
6	Recovered sulfur	B37	4320	Collection, Storage , Transportation, disposal at TSDF-BEIL & SEPPL.
7	Sodium Hydro sulfide 30 %	-	3240	Collection, Storage, Transportation and Disposal by sell out to authorized users who is having authorization with valid CCA and rule 9 permission to receive this waste after making MoU.
8	Hydrochloric Acid 30 %	B-15	4152	
9	Phosphoric Acid	B-15	1460	
10	Sodium Bisulphite Powder	B-23	2250	
11	Sodium Bisulphite Solution (30%)	B-23	7440	
12	Sodium Sulfite (30%)	B-15	3775	

- 6.3 The authorization is granted to operate a facility as above.
- 6.4 The authorization shall be in force for a period **up to 04/03/2027.**
- 6.5 The authorization is subject to the conditions stated below and such other conditions as may be specified in the rules from time to time under the Environment (Protection) Act-1986.

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

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

Clean Gujarat Green Gujarat

Website : <https://gpcb.gujarat.gov.in>

- 7.2 The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the Gujarat Pollution Control Board.
- 7.3 The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
- 7.4 Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
- 7.5 The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
- 7.6 The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"
- 7.7 It is the duty of the authorised person to take prior permission of the Gujarat Pollution Control Board to close down the facility.
- 7.8 The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
- 7.9 The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
- 7.10 The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.
- 7.11 The importer or exporter shall bear the cost of import or export and mitigation of damages if, any.
- 7.12 An application for the renewal of an authorization shall be made as laid down under Hazardous & Other Wastes (Management and Transboundary Movement) Rules-2016.
- 7.13 Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
- 7.14 Annual return shall be filed by June 30<sup>th</sup> for the period ensuring 31<sup>st</sup> March of the year.
- 7.15 Unit shall have to display the relevant information with regard to hazardous waste as indicated in the Court's order in W.P. No. 657 of 1995 dated 14<sup>th</sup> October 2003.
- 7.16 Unit shall have to display on-line data outside the main factory gate with regard to and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises.
- 7.17 Unit shall have to manage used or spent oil; empty or discarded barrels / containers / liners contaminated with hazardous chemicals / wastes, process waste as per Hazardous & Other Wastes (Management and Transboundary Movement) Rules-2016, framed under the E(P)Act-1986 and shall apply Authorization for all applicable waste.

For and on behalf of  
GUJARAT POLLUTION CONTROL BOARD



(Arun G. Patel)  
ENVIRONMENT ENGINEER

Date – 5<sup>th</sup> June 2023

Ref No. CHEMINOVA/INTER/06/05/2023/01

**PCB ID -15016**

**To**  
**Member Secretary**  
**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 - 2022 to March 2023 as per the Authorization for "The Hazardous and Other waste (Management & Transboundary Movement) Rule 2016.

We have also attached the details of disposal of used Batteries as per the Batteries (Management and Handling) Amendment Rules, 2010

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.**

**AUTHORISED SIGNATORY**

**Encl: As above**

**CC: Regional Office, Ankleshwar.**

**Enc. Form -4**



## PART-A

1	Total Quantity of waste generated category wise	Hazardous waste generation	Category	Quantity Generated (in MT)
		1. Chemical sludge from wastewater treatment (ETP Sludge)	35.3	1531.000
		2. Used or spent oil	5.1	0.785
		3. Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes (a) Non-Recyclable Plastic / Contaminated liners, bags ( Landfill +Incineration) (b) Insulation waste (c) Discarded containers/Drum/ packing etc	33.1	(28.055+ 14.265) 13.150 16.245  Total Qty.= 71.715
		4. Process waste or Residue (a) For Incineration (b) For Co-process	29.1 29.1	1876.875
		5. Process waste or Residue (Solid waste / Evaporation Salt)	29.1	Nil
		6. Total Sulphur	B37	0.300
		7. Battery		56 Nos. /0.110 MT 02 Nos. / 0.050 MT





## PART-A

2	Total Quantity of Category wise waste Disposed	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)
		1. Chemical sludge from wastewater treatment (ETP Sludge)	35.3	1551.450	Nil	Nil	ANNEXURE- A
		2. Used or spent oil	5.1	Nil	Nil	0.785	ANNEXURE- B
		3. Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes (a) Non-Recyclable Plastic / Contaminated liners, bags (b) Insulation waste (c) Discarded containers/Drum/ liner	33.1	30.71+14.265= 44.975 16.805- -- Total Qty.=76.970		15.190	ANNEXURE- C
		4. Process waste or Residue (a) For Incineration (b) For Co-process	29.1 29.1	--	(b) 1889.08	Nil	ANNEXURE- D
		5. Process waste or Residue (Solid waste / Evaporation Salt)	29.1	Nil	Nil	Nil	Nil
		6. Total Sulphur	B37	8.685	Nil	Nil	ANNEXURE- E
		7. Battery		Nil	Nil	56 Nos./0.110 MT 02 Nos. / 0.050 MT	ANNEXURE- F

3	Quantity utilized in-house	NIL
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## PART-A

4	Total Quantity of Category wise waste storage at the end of the year	Hazardous waste	Category	Quantity (in MT)
		1. Chemical sludge from wastewater treatment (ETP Sludge)	35.3	29.035
		2. Used or spent oil	5.1	Nil
		3. Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes (d) Non-Recyclable Plastic / Contaminated liners, bags (e) Insulation waste (f) Asbestos sheet (g) Discarded containers/Drum/ liner	33.1	Nil Nil Nil 1.865
				Total Qty.= 1.865
		4. Process waste or Residue (c) For Incineration (d) For Co-process	29.1 29.1	14.922
		5. Process waste or Residue (Solid waste / Evaporation Salt)	29.1	Nil
		6. Total Sulphur	B37	Nil
		7. Battery		Nil



## 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-22	5-Apr-22	1643202	35.700	Safe Enviro
	7-Apr-22	1675748	31.430	Safe Enviro
	12-Apr-22	1690954	23.950	Safe Enviro
	18-Apr-22	1696719	27.050	Safe Enviro
	19-Apr-22	1697843	17.185	Safe Enviro
	19-Apr-22	1698576	28.310	Safe Enviro
May-22	25-Apr-22	1704625	19.935	Safe Enviro
	14-May-22	1734431	17.065	Safe Enviro
	23-May-22	1744156	21.000	Safe Enviro
	25-May-22	1746520	21.005	Safe Enviro
	27-May-22	1748410	17.750	Safe Enviro
	31-May-22	1752745	21.725	Safe Enviro
Jul-22	19-Jul-22	1789959	34.520	Safe Enviro
	19-Jul-22	1790027	34.200	Safe Enviro
Aug-22	16-Aug-22	1809131	45.170	Safe Enviro
	22-Aug-22	1813017	42.770	Safe Enviro
	25-Aug-22	1815204	23.770	Safe Enviro
Sep-22	14-Sep-22	1829878	24.790	Safe Enviro
	14-Sep-22	1830182	31.850	Safe Enviro
Oct-22	29-Oct-22	1873548	31.550	Safe Enviro
	29-Oct-22	1873662	30.390	Safe Enviro
Nov-22	1-Nov-22	1875407	17.805	BEIL
	1-Nov-22	1876182	21.805	Safe Enviro
	2-Nov-22	1875452	19.260	BEIL
	12-Nov-22	1886802	30.430	Safe Enviro
	14-Nov-22	1888790	33.060	Safe Enviro
	18-Nov-22	1893047	23.125	Safe Enviro
	23-Nov-22	1898006	23.485	Safe Enviro
	26-Nov-22	1901384	21.370	Safe Enviro
Dec-22	3-Dec-22	1908477	20.860	Safe Enviro
	5-Dec-22	1910251	20.595	Safe Enviro
	8-Dec-22	1913121	27.785	Safe Enviro
	9-Dec-22	1914418	23.595	Safe Enviro
	13-Dec-22	1918080	19.575	Safe Enviro
	14-Dec-22	1918857	21.045	Safe Enviro
	15-Dec-22	1920236	22.145	Safe Enviro
	16-Dec-22	1920503	15.760	BEIL
	17-Dec-22	1922244	22.525	Safe Enviro
	25-Dec-22	1929562	19.645	Safe Enviro
Jan-23	2-Jan-23	1937534	24.915	Safe Enviro
	11-Jan-23	1945842	15.185	BEIL
	13-Jan-23	1948617	20.110	Safe Enviro
	17-Jan-23	1951374	22.415	Safe Enviro
	20-Jan-23	1954617	27.780	Safe Enviro



Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Jan-23	23-Jan-23	1957274	28.150	Safe Enviro
	23-Jan-23	1957241	21.060	Safe Enviro
	25-Jan-23	1959318	23.065	Safe Enviro
	25-Jan-23	1959516	21.505	Safe Enviro
	28-Jan-23	1961213	23.175	Safe Enviro
	30-Jan-23	1963920	48.490	Safe Enviro
Feb-23	2-Feb-23	1966862	10.745	BEIL
	3-Feb-23	1967004	19.545	Safe Enviro
	6-Feb-23	1970971	39.565	Safe Enviro
	13-Feb-23	1978150	28.135	Safe Enviro
	15-Feb-23	1980118	25.865	Safe Enviro
	18-Feb-23	1982949	19.025	Safe Enviro
	25-Feb-23	1990105	19.430	Safe Enviro
	27-Feb-23	1991759	29.665	Safe Enviro
	4-Mar-23	2026447	21.400	Safe Enviro
Mar-23	6-Mar-23	2028324	22.715	Safe Enviro
	10-Mar-23	2030752	28.585	Safe Enviro
	19-Mar-23	2039340	25.940	Safe Enviro
	<b>TOTAL QUANTITY (In MT)</b>		<b>1551.450</b>	

ANNEXURE- B

(2) Used or spent oil Cat-5.1

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to Refiners
Jul- 22	20-Jul-22	1790943	0.785	ABC Organic & Chemicals

ANNEXURE- C

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

(a) Non-Recyclable Plastic /Contaminated liners, bags (Land Filling / Incineration)

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Apr-22	18-Apr-22	1696455	1.520	BEIL
	30-Apr-22	1710261	1.435	BEIL
May-22	4-May-22	1713769	1.900	BEIL
	5-May-22	1715331	1.350	BEIL
	7-May-22	1717529	1.155	BEIL
	14-May-22	1734946	1.815	BEIL
	4-Jun-22	1756941	2.665	BEIL
Jun-22	21-Oct-22	1869493	2.095	BEIL
Oct-22	3-Nov-22	1877508	1.130	BEIL
	4-Nov-22	1879102	1.335	BEIL
Nov-22	10-Nov-22	1884697	2.410	BEIL
	11-Nov-22	1885874	1.300	BEIL
	11-Nov-22	1885694	2.055	BEIL
	18-Nov-22	1893011	1.450	BEIL
	19-Nov-22	1894126	1.975	BEIL
Dec-22	21-Nov-22	1896032	1.050	BEIL
	1-Dec-22	1906689	1.195	BEIL
	7-Jan-23	1942274	1.085	BEIL
Jan-23	19-Jan-23	1953147	1.790	BEIL
<b>Sub Total Quantity Sent For Landfilling (In MT)</b>			<b>30.71</b>	





Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
May-22	6-May-22	1716385	2.345	SEPPL
	23-May-22	1743911	1.940	SEPPL
	31-May-22	1753042	3.265	SEPPL
Jun-22	13-Jun-22	1764018	2.190	SEPPL
Aug-22	26-Aug-22	1816225	4.525	SEPPL
<b>Sub Total Quantity Sent For Incineration (In MT)</b>			<b>14.265</b>	

(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
Apr-22	25-Apr-22	1704445	0.940	BEIL
	26-Apr-22	1705475	1.190	BEIL
	26-Apr-22	1705468	1.085	BEIL
May-22	13-May-22	1733352	0.715	BEIL
Jun-22	7-Jun-22	1759328	0.590	BEIL
Oct-22	21-Oct-22	1869475	1.505	BEIL
	22-Oct-22	1870325	1.305	BEIL
	28-Oct-22	1872773	1.040	BEIL
Nov-22	9-Nov-22	1882807	0.910	BEIL
	9-Nov-22	1883197	1.185	BEIL
	12-Nov-22	1886641	0.840	BEIL
	13-Nov-22	1887606	0.625	BEIL
	15-Nov-22	1889397	0.610	BEIL
Jan-23	17-Jan-23	1951349	1.120	BEIL
Feb-23	13-Feb-23	1978167	0.880	BEIL
	17-Feb-23	1982489	0.990	BEIL
Mar-23	3-Mar-23	2025132	1.275	BEIL
<b>TOTAL QUANTITY (In MT)</b>			<b>16.805</b>	

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

**(C) Empty Container , Drums/Bag / Liner - To Decontamination Facility**

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Apr-22	18-Apr-22	1696889	0.850	Anas Green Environment
Jun-22	1-Jun-22	1753685	2.530	Anas Green Environment
	2-Jun-22	1754677	2.555	Anas Green Environment
	3-Jun-22	1755809	1.030	Anas Green Environment
Jan-23	4-Jan-23	1939494	2.470	Anas Green Environment
	25-Jan-23	1959500	1.190	Anas Green Environment
	27-Jan-23	1960948	1.180	Anas Green Environment
	28-Jan-23	1962118	1.190	Anas Green Environment
Feb-23	1-Feb-23	1966210	2.195	Anas Green Environment
<b>TOTAL QUANTITY (In MT)</b>			<b>15.190</b>	



## 4 Process waste or Residue Cat -29.1

## (a) For Incineration

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

## 4. Process waste or Residue Cat -29.1

## (b) For Co-processing

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Apr-22	5-Apr-22	1643657	8.085	Eco Waste management
	6-Apr-22	1643830	22.950	RSPL
	6-Apr-22	1644028	8.020	Eco Waste management
	12-Apr-22	1690140	7.440	Eco Waste management
	13-Apr-22	1691582	15.560	Eco Waste management
	13-Apr-22	1692851	22.970	RSPL
	14-Apr-22	1693157	7.270	Eco Waste management
	15-Apr-22	1693859	6.170	Eco Waste management
	16-Apr-22	1694958	8.500	Eco Waste management
	17-Apr-22	1695688	6.695	Eco Waste management
	18-Apr-22	1696260	19.645	RSPL
	18-Apr-22	1696599	8.555	Eco Waste management
	19-Apr-22	1698556	27.805	Eco Waste management
	20-Apr-22	1699191	8.230	Eco Waste management
	22-Apr-22	1701763	7.330	Eco Waste management
	22-Apr-22	1701911	4.320	RSPL
	25-Apr-22	1704376	7.950	Eco Waste management
	28-Apr-22	1707949	7.770	Eco Waste management
	28-Apr-22	1708163	8.355	Eco Waste management
	28-Apr-22	1708280	4.970	Eco Waste management
May-22	2-May-22	1711940	8.515	Eco Waste management
	5-May-22	1715300	8.600	Eco Waste management
	9-May-22	1718800	8.450	Eco Waste management
	9-May-22	1719126	6.805	Eco Waste management
	10-May-22	1730144	8.350	Eco Waste management
	10-May-22	1730107	26.430	Eco Waste management
	13-May-22	1733251	8.460	Eco Waste management
	15-May-22	1735447	8.410	Eco Waste management
	19-May-22	1739574	8.095	Eco Waste management
	19-May-22	1739566	8.055	Eco Waste management
	19-May-22	1739628	7.420	Eco Waste management
	21-May-22	1742294	7.570	Eco Waste management
	22-May-22	1742597	8.595	Eco Waste management
	25-May-22	1745889	8.605	Eco Waste management
	25-May-22	1746182	5.920	RSPL
	25-May-22	1746368	21.490	RSPL
	25-May-22	1746393	1.545	Eco Waste management
	27-May-22	1748566	8.455	Eco Waste management
	28-May-22	1749572	25.040	Eco Waste management
	29-May-22	1750392	8.450	Eco Waste management
	31-May-22	1752803	8.220	Eco Waste management





Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Jun-22	1-Jun-22	1753689	5.525	Eco Waste management
	3-Jun-22	1755909	8.435	Eco Waste management
	7-Jun-22	1758634	21.160	Eco Waste management
	9-Jun-22	1760749	8.455	Eco Waste management
	11-Jun-22	1762858	8.250	Eco Waste management
	13-Jun-22	1763773	8.620	Eco Waste management
	14-Jun-22	1764583	22.735	Eco Waste management
	15-Jun-22	1766053	8.320	Eco Waste management
	18-Jun-22	1767922	16.005	Eco Waste management
	18-Jun-22	1768179	8.545	Eco Waste management
	20-Jun-22	1769731	8.685	Eco Waste management
	23-Jun-22	1771640	8.455	Eco Waste management
	23-Jun-22	1772116	17.490	RSPL
	23-Jun-22	1771942	8.195	Eco Waste management
	26-Jun-22	1773940	8.380	Eco Waste management
	26-Jun-22	1773999	7.585	Eco Waste management
	30-Jun-22	1777198	8.925	Eco Waste management
	30-Jun-22	1777015	9.435	Eco Waste management
Jul-22	2-Jul-22	1778688	8.485	Eco Waste management
	3-Jul-22	1778992	22.240	RSPL
	7-Jul-22	1782135	7.765	Eco Waste management
	9-Jul-22	1783423	8.790	Eco Waste management
	10-Jul-22	1783995	4.500	Eco Waste management
	12-Jul-22	1785340	8.525	Eco Waste management
	12-Jul-22	1785100	8.505	Eco Waste management
	19-Jul-22	1789741	8.345	Eco Waste management
	20-Jul-22	1790412	7.805	Eco Waste management
	22-Jul-22	1792080	8.190	Eco Waste management
	24-Jul-22	1793584	5.610	RSPL
	24-Jul-22	1793617	7.850	Eco Waste management
	27-Jul-22	1795972	7.805	Eco Waste management
	27-Jul-22	1795978	5.720	Eco Waste management
	30-Jul-22	1797753	8.670	Eco Waste management
	30-Jul-22	1798058	6.265	Eco Waste management
Aug-22	2-Aug-22	1799913	8.800	Eco Waste management
	4-Aug-22	1801165	8.225	Eco Waste management
	4-Aug-22	1801583	6.820	Eco Waste management
	8-Aug-22	1803681	7.930	Eco Waste management
	10-Aug-22	1805240	8.220	Eco Waste management
	11-Aug-22	1805992	8.425	Eco Waste management
	14-Aug-22	1807779	8.270	Eco Waste management
	15-Aug-22	1808223	8.410	Eco Waste management
	18-Aug-22	1810319	8.580	Eco Waste management
	20-Aug-22	1811401	8.200	Eco Waste management
	23-Aug-22	1813336	7.955	Eco Waste management
	24-Aug-22	1814384	8.130	Eco Waste management
	25-Aug-22	1815014	8.580	Eco Waste management
	25-Aug-22	1815264	5.840	RSPL
	29-Aug-22	1817850	6.020	Eco Waste management
	29-Aug-22	1817911	7.030	Eco Waste management



Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Sep-22	2-Sep-22	1820917	8.040	Eco Waste management
	4-Sep-22	1822381	8.200	Eco Waste management
	12-Sep-22	1827902	7.515	Eco Waste management
	12-Sep-22	1828192	7.200	Eco Waste management
	16-Sep-22	1831242	8.045	Eco Waste management
	20-Sep-22	1844056	7.395	Eco Waste management
	20-Sep-22	1844109	6.395	Eco Waste management
	22-Sep-22	1845807	7.905	Eco Waste management
	24-Sep-22	1847887	7.920	Eco Waste management
	27-Sep-22	1849272	8.395	Eco Waste management
	29-Sep-22	1850588	8.435	Eco Waste management
Oct-22	1-Oct-22	1852033	8.030	Eco Waste management
	6-Oct-22	1855298	7.995	Eco Waste management
	9-Oct-22	1858060	7.990	Eco Waste management
	10-Oct-22	1858655	7.735	Eco Waste management
	13-Oct-22	1861052	7.815	Eco Waste management
	15-Oct-22	1863132	7.805	Eco Waste management
	20-Oct-22	1868066	7.545	Eco Waste management
	22-Oct-22	1870127	7.955	Eco Waste management
	22-Oct-22	1870515	7.075	RSPL
	25-Oct-22	1871485	7.940	Eco Waste management
	29-Oct-22	1873510	7.745	Eco Waste management
Nov-22	1-Nov-22	1875662	5.260	Eco Waste management
	1-Nov-22	1875483	7.915	Eco Waste management
	5-Nov-22	1879796	7.995	Eco Waste management
	6-Nov-22	1880638	7.810	Eco Waste management
	8-Nov-22	1882615	4.535	Eco Waste management
	8-Nov-22	1882120	7.705	Eco Waste management
	12-Nov-22	1886760	7.750	Eco Waste management
	12-Nov-22	1887044	5.435	Eco Waste management
	14-Nov-22	1888980	7.735	Eco Waste management
	16-Nov-22	1890651	6.770	Eco Waste management
	21-Nov-22	1895436	7.860	Eco Waste management
	22-Nov-22	1896998	7.410	Eco Waste management
	24-Nov-22	1899347	8.235	Eco Waste management
	26-Nov-22	1901607	4.030	Eco Waste management
Dec-22	28-Nov-22	1902665	8.290	Eco Waste management
	1-Dec-22	1906298	8.465	Eco Waste management
	3-Dec-22	1908287	8.510	Eco Waste management
	6-Dec-22	1910827	8.485	Eco Waste management
	8-Dec-22	1912899	8.435	Eco Waste management
	13-Dec-22	1917994	8.430	Eco Waste management
	14-Dec-22	1919311	8.410	Eco Waste management
	15-Dec-22	1919617	4.535	Eco Waste management
	15-Dec-22	1919895	8.210	Eco Waste management
	17-Dec-22	1922102	6.790	Eco Waste management
	21-Dec-22	1925615	8.150	Eco Waste management
	23-Dec-22	1927542	4.405	Eco Waste management
	23-Dec-22	1927780	8.290	Eco Waste management
	24-Dec-22	1929168	4.455	Eco Waste management
	27-Dec-22	1931528	8.585	Eco Waste management





Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Dec-22	30-Dec-22	1934489	8.060	Eco Waste management
	30-Dec-22	1934847	25.200	Eco Waste management
Jan-23	3-Jan-23	1938241	26.050	Eco waste Management
	3-Jan-23	1938732	8.320	Eco waste Management
	4-Jan-23	1939783	28.850	Eco waste Management
	5-Jan-23	1940067	29.085	Eco waste Management
	5-Jan-23	1940523	8.615	Eco waste Management
	6-Jan-23	1941896	8.005	Eco waste Management
	8-Jan-23	1943132	8.210	Eco waste Management
	9-Jan-23	1943679	27.055	Eco waste Management
	17-Jan-23	1951421	7.080	Eco waste Management
	18-Jan-23	1951983	8.045	Eco waste Management
	20-Jan-23	1954440	7.155	Eco waste Management
	21-Jan-23	1955404	6.905	Eco waste Management
	22-Jan-23	1956140	6.260	Eco waste Management
	23-Jan-23	1957201	3.960	Eco waste Management
	24-Jan-23	1958406	8.570	Eco waste Management
	25-Jan-23	1958952	23.800	RSPL
	25-Jan-23	1959298	6.770	Eco waste Management
	27-Jan-23	1960953	8.240	Eco waste Management
	29-Jan-23	1962950	7.960	Eco waste Management
	29-Jan-23	1963187	24.795	RSPL
	30-Jan-23	1963525	7.380	Eco waste Management
Feb-23	1-Feb-23	1965659	7.355	Eco waste Management
	1-Feb-23	1966190	7.390	Eco waste Management
	4-Feb-23	1969109	8.440	Eco waste Management
	5-Feb-23	1969654	8.625	Eco waste Management
	7-Feb-23	1972229	4.820	Eco waste Management
	9-Feb-23	1974037	8.530	Eco waste Management
	11-Feb-23	1975972	7.940	Eco waste Management
	13-Feb-23	1978140	7.795	Eco waste Management
	13-Feb-23	1978176	3.705	Eco waste Management
	15-Feb-23	1979776	7.255	Eco waste Management
	15-Feb-23	1980125	7.245	Eco waste Management
	18-Feb-23	1982751	8.725	Eco waste Management
	19-Feb-23	1983692	2.710	Eco waste Management
	21-Feb-23	1985982	8.415	Eco waste Management
	23-Feb-23	1987632	6.840	Eco waste Management
	23-Feb-23	1987762	6.305	Eco waste Management
	25-Feb-23	1989956	4.225	Eco waste Management
	25-Feb-23	1990138	8.080	Eco waste Management
	27-Feb-23	1991303	8.685	Eco waste Management
	28-Feb-23	1992994	6.915	Eco waste Management
Mar-23	3-Mar-23	2004367	22.405	RSPL
	3-Mar-23	2004380	8.445	Eco waste Management
	3-Mar-23	2025131	5.960	Eco waste Management
	3-Mar-23	2025986	7.220	Eco waste Management
	4-Mar-23	2026451	7.760	Eco waste Management
	5-Mar-23	2027300	7.145	Eco waste Management
	9-Mar-23	2029622	8.565	Eco waste Management
	9-Mar-23	2029753	6.495	Eco waste Management





Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Mar-23	10-Mar-23	2030360	22.880	RSPL
	11-Mar-23	2031362	7.980	Eco waste Management
	14-Mar-23	2034098	8.485	Eco waste Management
	16-Mar-23	2036298	6.385	Eco waste Management
	16-Mar-23	2036724	7.465	Eco waste Management
	20-Mar-23	2039747	8.690	Eco waste Management
	20-Mar-23	2040488	8.010	Eco waste Management
	22-Mar-23	2041981	7.480	Eco waste Management
	25-Mar-23	2045846	8.285	Eco waste Management
	25-Mar-23	2045986	7.585	Eco waste Management
	31-Mar-23	2051381	8.635	Eco waste Management
	31-Mar-23	2051879	5.095	Eco waste Management
	<b>TOTAL QUANTITY (In MT)</b>		<b>1889.080</b>	

#### ANNEXURE-E

#### 5 Recovered Sulphur Cat -B-37

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	Disposed to
Mar-23	28-Mar-23	2048371	8.685	Eco waste Management

#### ANNEXURE-F

#### 6 Used battery

Month of disposal	Date of disposal	Invoice No.	Quantity Nos.	Disposed to
Oct. 22	21 Oct. 2022	C2224SC00554 C2224SC00555	56 Nos. /0.110 MT 02 Nos. / 0.050 MT	Surya Power Battery



## PART-A

## DETAILS OF BYPRODUCT (HAZARDOUS WASTE DISPOSED /TO END USERS)

1	Total Quantity of Category wise waste generated category wise	Hazardous waste generation	Category	Quantity Generated (in MT)
		Sodium Hydrosulfide (30%)	-	2787.450
		Hydrochloric Acid 30%	B-15	3107.344
		Phosphoric Acid	B-15	585.845
		Sodium Bisulphite Powder	-	0.000
		Sodium Bisulphite Solution (30%)	-	0.000
		Sodium Sulfite (30%)	B-15	498.42
		Spent Sulphuric Acid (20%)	B-15	0.000
		Acetic Acid (30%)	B-15	0.000

2	Total Quantity of Category wise waste Disposed	Hazardous waste generation	Category	Quantity Disposal (in MT)
		Sodium Hydrosulfide (30%)	-	2753.300
		Hydrochloric Acid 30%	B-15	3125.755
		Phosphoric Acid	B-15	599.990
		Sodium Bisulphite Powder	-	0.000
		Sodium Bisulphite Solution (30%)	-	0.000
		Sodium Sulfite (30%)	B-15	498.420
		Spent Sulphuric Acid (20%)	B-15	0.000
		Acetic Acid (30%)	B-15	0.000

Note :- Sodium Bisulphite Powder (4.2 MT) and Sodium Bisulphite Solution (0.72MT) in house used

3	Total Quantity of Category wise waste storage at the end of the year	Hazardous waste generation	Category	Quantity (in MT)
		Sodium Hydrosulfide (30%)	-	62.630
		Hydrochloric Acid 30%	B-15	14.247
		Phosphoric Acid	B-15	24.140
		Sodium Bisulphite Powder	-	0.000
		Sodium Bisulphite Solution (30%)	-	0.000
		Sodium Sulfite (30%)	B-15	35.000
		Spent Sulphuric Acid (20%)	B-15	0.000
		Acetic Acid (30%)	B-15	0.000





**1 Sodium Hydro sulfide 30%, Cat : Not Applicable**

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
Apr-22	4-Apr-22	1641777	15.270	Rang Chemicals
	15-Apr-22	1694124	18.360	Ohm Dye Chem
	18-Apr-22	1697147	18.645	Dhruv Sales Corporation
	20-Apr-22	1699479	18.455	Saga Chemie Pvt Ltd
	23-Apr-22	1702925	18.295	Dev Dye Chem Industries
	23-Apr-22	1702907	20.300	Rang Chemicals
	25-Apr-22	1704885	18.315	Rang Chemicals
	28-Apr-22	1708534	18.480	Saga Chemie Pvt Ltd
	29-Apr-22	1709521	18.285	Shree Hari Organic
	30-Apr-22	1710741	11.910	Saga Chemie Pvt Ltd
May-22	4-May-22	1714322	18.610	Dev Dye Chem Industries
	6-May-22	1716522	18.535	Rang Chemicals
	9-May-22	1719428	15.520	Saga Chemie Pvt Ltd
	10-May-22	1730648	15.865	Dhruv Sales Corporation
	13-May-22	1733708	17.780	Sahyog Pharma Chem
	16-May-22	1736649	18.185	Jay Industries
	18-May-22	1738764	18.255	Dev Dye Chem Industries
	21-May-22	1741870	24.790	Jay Organics
	25-May-22	1746605	24.985	Jay Organics
	30-May-22	1751952	24.910	Jay Organics
Jun-22	6-Jun-22	1758471	26.585	Jay Organics
	8-Jun-22	1760279	27.245	Jay Organics
	13-Jun-22	1764373	27.790	Jay Organics
	18-Jun-22	1768258	24.000	Jay Organics
	20-Jun-22	1770255	25.390	Rang Chemicals
	21-Jun-22	1769674	22.280	Rang Chemicals
	27-Jun-22	1774771	21.875	Jay Organics
	27-Jun-22	1774783	25.135	Rang Chemicals
	29-Jun-22	1776540	26.400	Rang Chemicals
	30-Jun-22	1777086	19.960	Rang Chemicals
Jul-22	2-Jul-22	1778711	23.220	Jay Organics
	7-Jul-22	1782281	26.175	Rang Chemicals
	8-Jul-22	1783103	27.965	Jay Organics
	15-Jul-22	1787442	18.970	Jay Organics
	17-Jul-22	1788407	25.740	Rang Chemicals
	19-Jul-22	1790045	25.935	Rang Chemicals
	23-Jul-22	1792515	26.145	Rang Chemicals
	26-Jul-22	1795206	25.770	Rang Chemicals
	28-Jul-22	1796606	24.125	Jay Organics
	29-Jul-22	1797009	18.885	Rang Chemicals
Aug-22	2-Aug-22	1800104	25.760	Rang Chemicals
	6-Aug-22	1802501	22.705	Jay Organics
	9-Aug-22	1804776	23.965	Jay Organics
	12-Aug-22	1806615	22.890	Jay Organics
	13-Aug-22	1807475	25.865	Rang Chemicals
	18-Aug-22	1810243	19.220	Rang Chemicals
	19-Aug-22	1811129	16.745	Rang Chemicals



Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
Aug-22	19-Aug-22	1811070	18.670	Shree Hari Organic
	20-Aug-22	1811765	22.590	Rang Chemicals
	25-Aug-22	1815444	24.525	Jay Organics
	26-Aug-22	1816348	19.615	Dev Dye Chem Industries
	27-Aug-22	1816217	26.110	Rang Chemicals
Sep-22	31-Aug-22	1819214	18.730	Jay Organics
	1-Sep-22	1820436	22.950	Rang Chemicals
	5-Sep-22	1823301	26.610	Rang Chemicals
	7-Sep-22	1824779	19.820	Rang Chemicals
	12-Sep-22	1828445	22.575	Rang Chemicals
	16-Sep-22	1841492	15.320	Rang Chemicals
	17-Sep-22	1842235	20.220	Jay Organics
	19-Sep-22	1843574	20.275	Rang Chemicals
	21-Sep-22	1845251	21.150	Jay Organics
	23-Sep-22	1847096	20.165	Jay Organics
	28-Sep-22	1849674	20.210	Jay Organics
	28-Sep-22	1850377	22.640	Rang Chemicals
	3-Oct-22	1853512	25.605	Rang Chemicals
	4-Oct-22	1854359	19.535	Jay Organics
	7-Oct-22	1856380	22.040	Jay Organics
Oct-22	11-Oct-22	1859653	22.965	Jay Organics
	14-Oct-22	1861686	22.920	Rang Chemicals
	15-Oct-22	1863655	21.215	Jay Organics
	19-Oct-22	1867421	20.590	Rang Chemicals
	25-Oct-22	1871583	25.020	Rang Chemicals
	28-Oct-22	1872915	24.295	Jay Organics
	31-Oct-22	1875077	18.745	Dhruv Sales Corporation
	3-Nov-22	1877788	24.645	Rang Chemicals
	4-Nov-22	1878972	19.730	Jay Organics
	8-Nov-22	1882718	25.495	Shree Hari Organic
Nov-22	15-Nov-22	1889108	19.945	Jay Organics
	16-Nov-22	1890540	26.410	Rang Chemicals
	18-Nov-22	1893111	20.210	Jay Organics
	22-Nov-22	1896967	19.180	Dhruv Sales Corporation
	26-Nov-22	1900923	21.280	Jay Organics
	26-Nov-22	1901646	25.730	Rang Chemicals
	30-Nov-22	1905742	24.590	Jay Organics
	4-Dec-22	1909118	18.980	Jay Organics
	5-Dec-22	1910200	22.970	Rang Chemicals
	6-Dec-22	1911274	20.305	Dhruv Sales Corporation
Dec-22	10-Dec-22	1915370	21.145	Jay Organics
	13-Dec-22	1918188	23.955	Rang Chemicals
	16-Dec-22	1921199	20.975	Jay Organics
	20-Dec-22	1924568	20.945	Jay Organics
	22-Dec-22	1927055	25.295	Rang Chemicals
	24-Dec-22	1929023	18.735	Dhruv Sales Corporation
	26-Dec-22	1930645	21.235	Jay Organics
	28-Dec-22	1932898	19.050	Jay Organics
	31-Dec-22	1936067	26.120	Jay Organics
	4-Jan-23	1938749	26.595	Rang Chemicals
Jan-23	6-Jan-23	1941771	28.270	Jay Organics





Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
Jan-23	17-Jan-23	1951285	24.660	Rang Chemicals
	28-Jan-23	1962306	20.310	Rang Chemicals
	28-Jan-23	1962532	24.050	Jay Organics
Feb-23	2-Feb-23	1967374	25.790	Rang Chemicals
	2-Feb-23	1967477	20.145	Jay Organics
	8-Feb-23	1973135	25.250	Rang Chemicals
	9-Feb-23	1974014	20.550	Jay Organics
	11-Feb-23	1975778	24.395	Dhruv sales Corporation
	13-Feb-23	1978214	21.470	Rang Chemicals
	14-Feb-23	1979277	20.425	Jay Organics
	16-Feb-23	1981420	20.090	Rang Chemicals
	20-Feb-23	1984353	21.420	Jay Organics
	22-Feb-23	1986833	26.300	Rang Chemicals
	25-Feb-23	1990410	21.370	Jay Organics
	28-Feb-23	1992909	24.505	Rang Chemicals
	3-Mar-23	2025964	25.000	Jay Organics
	4-Mar-23	2026573	25.965	Rang Chemicals
	6-Mar-23	2028383	23.670	Rang Chemicals
Mar-23	7-Mar-23	2029096	18.595	Jay Organics
	11-Mar-23	2031063	19.705	Rang Chemicals
	13-Mar-23	2033551	22.080	Jay Organics
	16-Mar-23	2036767	17.755	Dhruv sales Corporation
	22-Mar-23	2042618	22.290	Rang Chemicals
	24-Mar-23	2044972	23.575	Jay Organics
	27-Mar-23	2046926	22.695	Rang Chemicals
	29-Mar-23	2049299	21.750	Jay Organics
	30-Mar-23	2051102	22.105	Jay Organics
TOTAL QUANTITY (In MT)			2753.300	

## ANNEXURE-H

### 2 Hydrochloric Acid 30% Cat: B-15

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
Apr-22	2-Apr-22	1640082	19.665	Rahul Intermediates
	5-Apr-22	1643542	18.205	Rahul Intermediates
	7-Apr-22	1675682	18.170	Rahul Intermediates
	14-Apr-22	1692955	19.435	Rahul Intermediates
	18-Apr-22	1697144	9.510	Rahul Intermediates
	21-Apr-22	1700843	23.285	Rahul Intermediates
	21-Apr-22	1700563	18.810	Rahul Intermediates
	26-Apr-22	1705369	19.285	Rahul Intermediates
	30-Apr-22	1710948	27.075	Shreeji Industries
	30-Apr-22	1710488	19.075	Rahul Intermediates
May-22	3-May-22	1713351	27.545	Shreeji Industries
	6-May-22	1715943	23.980	Shreeji Industries
	6-May-22	1716515	19.240	Rahul Intermediates
	10-May-22	1730645	27.930	Shreeji Industries
	11-May-22	1731335	19.005	Rahul Intermediates
	14-May-22	1734826	24.080	Rahul Intermediates
	14-May-22	1734801	28.445	Shreeji Industries



Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
May-22	17-May-22	1737682	19.695	Rahul Intermediates
	18-May-22	1738754	9.935	Rahul Intermediates
	21-May-22	1742153	27.900	Shreeji Industries
	23-May-22	1743961	27.880	Shreeji Industries
	23-May-22	1743947	19.350	Rahul Intermediates
	26-May-22	1747745	24.390	Shreeji Industries
	31-May-22	1752966	19.955	Rahul Intermediates
Jun-22	3-Jun-22	1756129	30.105	Rahul Intermediates
	6-Jun-22	1758242	19.820	Rahul Intermediates
	8-Jun-22	1760312	29.955	Rahul Intermediates
	13-Jun-22	1764074	20.000	Rahul Intermediates
	15-Jun-22	1765977	20.045	Rahul Intermediates
	16-Jun-22	1766750	20.090	Rahul Intermediates
	21-Jun-22	1770251	29.785	Rahul Intermediates
	23-Jun-22	1772126	29.930	Rahul Intermediates
	24-Jun-22	1772925	19.545	Rahul Intermediates
	28-Jun-22	1775818	20.340	Rahul Intermediates
Jul-22	29-Jun-22	1776529	20.240	Rahul Intermediates
	5-Jul-22	1780693	20.090	Rahul Intermediates
	7-Jul-22	1782454	10.035	Rahul Intermediates
	7-Jul-22	1782166	19.945	Rahul Intermediates
	8-Jul-22	1782907	29.860	Rahul Intermediates
	9-Jul-22	1783548	20.005	Rahul Intermediates
	10-Jul-22	1784064	29.740	Rahul Intermediates
	14-Jul-22	1786656	18.925	Rahul Intermediates
	14-Jul-22	1786808	23.845	Rahul Intermediates
	14-Jul-22	1786719	9.800	Rahul Intermediates
	17-Jul-22	1788532	19.655	Rahul Intermediates
	21-Jul-22	1791641	19.880	Rahul Intermediates
	23-Jul-22	1793022	19.815	Rahul Intermediates
	25-Jul-22	1794053	19.860	Rahul Intermediates
	27-Jul-22	1796010	29.390	Rahul Intermediates
	27-Jul-22	1795696	10.055	Rahul Intermediates
	29-Jul-22	1797326	26.315	Rahul Intermediates
	30-Jul-22	1798630	19.620	Rahul Intermediates
Aug-22	3-Aug-22	1800843	24.090	Rahul Intermediates
	4-Aug-22	1801548	24.195	Rahul Intermediates
	5-Aug-22	1802358	19.565	Rahul Intermediates
	10-Aug-22	1805730	19.090	Rahul Intermediates
	12-Aug-22	1806674	12.030	Rahul Intermediates
	12-Aug-22	1806798	20.060	Rahul Intermediates
	16-Aug-22	1809055	18.895	Rahul Intermediates
	17-Aug-22	1809713	24.760	Rahul Intermediates
	17-Aug-22	1809807	10.335	Rahul Intermediates
	18-Aug-22	1810566	19.790	Rahul Intermediates
	20-Aug-22	1811694	24.630	Rahul Intermediates
	22-Aug-22	1812842	20.410	Rahul Intermediates
	22-Aug-22	1812850	10.560	Rahul Intermediates
	24-Aug-22	1814264	19.775	Rahul Intermediates
	25-Aug-22	1815434	19.895	Rahul Intermediates
Sep-22	2-Sep-22	1820638	19.785	Rahul Intermediates





Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
Sep-22	3-Sep-22	1822130	10.090	Rahul Intermediates
	3-Sep-22	1821970	24.745	Rahul Intermediates
	5-Sep-22	1823344	10.185	Rahul Intermediates
	8-Sep-22	1824884	9.755	Rahul Intermediates
	8-Sep-22	1825713	10.050	Rahul Intermediates
	14-Sep-22	1830199	9.950	Rahul Intermediates
	15-Sep-22	1830740	20.100	Rahul Intermediates
	16-Sep-22	1841528	11.785	Rahul Intermediates
	20-Sep-22	1843780	9.950	Rahul Intermediates
	24-Sep-22	1847826	9.770	Rahul Intermediates
	26-Sep-22	1849165	19.675	Rahul Intermediates
Oct-22	1-Oct-22	1851487	19.110	Rahul Intermediates
	3-Oct-22	1853629	19.775	Rahul Intermediates
	3-Oct-22	1853333	10.825	Rahul Intermediates
	7-Oct-22	1856570	19.860	Rahul Intermediates
	8-Oct-22	1857381	19.790	Rahul Intermediates
	9-Oct-22	1856689	9.815	Rahul Intermediates
	10-Oct-22	1858943	19.645	Rahul Intermediates
	14-Oct-22	1861548	10.020	Rahul Intermediates
	15-Oct-22	1863482	19.730	Rahul Intermediates
	17-Oct-22	1865146	10.035	Rahul Intermediates
	20-Oct-22	1868722	9.800	Rahul Intermediates
	20-Oct-22	1868713	19.455	Rahul Intermediates
	21-Oct-22	1869916	12.660	Rahul Intermediates
Nov-22	2-Nov-22	1876746	19.940	Rahul Intermediates
	5-Nov-22	1879136	23.450	Rahul Intermediates
	7-Nov-22	1881594	19.690	Rahul Intermediates
	8-Nov-22	1882727	19.645	Rahul Intermediates
	9-Nov-22	1883861	19.355	Rahul Intermediates
	11-Nov-22	1885917	19.540	Rahul Intermediates
	15-Nov-22	1889196	19.505	Rahul Intermediates
	22-Nov-22	1897133	19.625	Rahul Intermediates
	24-Nov-22	1899415	19.505	Rahul Intermediates
	26-Nov-22	1901433	19.545	Rahul Intermediates
	28-Nov-22	1902676	20.690	Rahul Intermediates
	29-Nov-22	1904379	19.235	Rahul Intermediates
Dec-22	2-Dec-22	1907650	17.660	Rahul Intermediates
	8-Dec-22	1913201	19.940	Rahul Intermediates
	11-Dec-22	1916000	19.895	Rahul Intermediates
	12-Dec-22	1916798	10.125	Rahul Intermediates
	13-Dec-22	1918027	19.690	Rahul Intermediates
	16-Dec-22	1921271	19.780	Rahul Intermediates
	19-Dec-22	1923749	23.540	Rahul Intermediates
	20-Dec-22	1924587	19.650	Rahul Intermediates
	21-Dec-22	1925288	23.235	Rahul Intermediates
	23-Dec-22	1928053	23.390	Rahul Intermediates
	26-Dec-22	1930655	9.800	Rahul Intermediates
	26-Dec-22	1930163	23.040	Rahul Intermediates
	29-Dec-22	1933836	23.340	Rahul Intermediates
	31-Dec-22	1936075	19.770	Rahul Intermediates
Jan-23	3-Jan-23	1938415	19.600	Rahul Intermediates



Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
<b>Jan-23</b>	5-Jan-23	1940629	19.605	Rahul Intermediates
	6-Jan-23	1941860	19.415	Rahul Intermediates
	10-Jan-23	1945487	19.550	Rahul Intermediates
	16-Jan-23	1950088	19.465	Rahul Intermediates
	18-Jan-23	1952595	18.130	Rahul Intermediates
	24-Jan-23	1958662	19.900	Rahul Intermediates
	27-Jan-23	1961432	19.595	Rahul Intermediates
	28-Jan-23	1962608	19.405	Rahul Intermediates
	30-Jan-23	1964109	19.505	Rahul Intermediates
<b>Feb-23</b>	2-Feb-23	1967405	15.790	Rahul Intermediates
	3-Feb-23	1968266	19.600	Rahul Intermediates
	6-Feb-23	1971087	19.640	Rahul Intermediates
	7-Feb-23	1972339	19.535	Rahul Intermediates
	9-Feb-23	1974231	19.515	Rahul Intermediates
	9-Feb-23	1974330	17.435	Rahul Intermediates
	13-Feb-23	1978211	19.785	Rahul Intermediates
	13-Feb-23	1978207	17.585	Rahul Intermediates
	18-Feb-23	1982474	24.465	Rahul Intermediates
	18-Feb-23	1983039	19.690	Rahul Intermediates
	21-Feb-23	1986094	24.170	Rahul Intermediates
	24-Feb-23	1989418	19.485	Rahul Intermediates
	24-Feb-23	1989528	23.515	Rahul Intermediates
	27-Feb-23	1992102	19.260	Rahul Intermediates
	27-Feb-23	1991751	19.905	Rahul Intermediates
<b>Mar-23</b>	4-Mar-23	2026839	24.045	Rahul Intermediates
	6-Mar-23	2028110	19.545	Rahul Intermediates
	6-Mar-23	2028519	19.200	Rahul Intermediates
	9-Mar-23	2029950	9.545	Rahul Intermediates
	10-Mar-23	2030825	19.305	Rahul Intermediates
	13-Mar-23	2032827	19.760	Rahul Intermediates
	15-Mar-23	2035462	19.390	Rahul Intermediates
	15-Mar-23	2035470	18.685	Rahul Intermediates
	16-Mar-23	2036757	18.910	Rahul Intermediates
	18-Mar-23	2038765	18.820	Rahul Intermediates
	22-Mar-23	2042388	19.745	Rahul Intermediates
	22-Mar-23	2042241	20.090	Rahul Intermediates
	24-Mar-23	2044974	20.370	Rahul Intermediates
	25-Mar-23	2045513	18.795	Rahul Intermediates
	25-Mar-23	2045845	19.800	Rahul Intermediates
	27-Mar-23	2047636	18.605	Rahul Intermediates
	30-Mar-23	2050913	19.610	Rahul Intermediates
	31-Mar-23	2051118	22.435	Rahul Intermediates
<b>TOTAL QUANTITY (In MT)</b>			<b>3125.755</b>	





## PART-A

## ANNEXURE-I

## 3 Phosphoric Acid Cat: B-15

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
Apr-22	8-Apr-22	1676335	18.510	S.R.Chemicals
	19-Apr-22	1698548	18.750	S.R.Chemicals
	20-Apr-22	1699615	17.430	Choksey Chemicals Industries
May-22	2-May-22	1712401	17.495	S R Chemical
	12-May-22	1732756	17.130	S.R.Chemicals
	23-May-22	1744225	16.815	S.R.Chemicals
	28-May-22	1749903	14.000	S.R.Chemicals
Jun-22	15-Jun-22	1766005	11.865	Choksey Chemicals Industries
	22-Jun-22	1771247	15.010	S R Chemical
Jul-22	4-Jul-22	1779797	13.265	Choksey Chemicals Industries
	6-Jul-22	1781558	15.015	S R Chemical
	20-Jul-22	1790968	12.390	S R Chemical
	22-Jul-22	1792347	12.310	Choksey Chemicals Industries
Aug-22	7-Aug-22	1803311	11.840	Choksey Chemicals Industries
	9-Aug-22	1804569	14.045	S R Chemical
	17-Aug-22	1809495	11.585	S R Chemical
	18-Aug-22	1810349	10.750	Choksey Chemicals Industries
	24-Aug-22	1814639	11.195	S R Chemical
Sep-22	3-Sep-22	1822140	11.060	Choksey Chemicals Industries
	12-Sep-22	1827642	10.255	S.R.Chemicals
	20-Sep-22	1844616	10.875	Choksey Chemicals Industries
	23-Sep-22	1847057	10.680	S R Chemical
Oct-22	3-Oct-22	1853327	10.085	S R Chemical
	10-Oct-22	1858867	10.195	Choksey Chemicals Industries
	12-Oct-22	1859816	10.910	S R Chemical
	21-Oct-22	1869758	8.815	Choksey Chemicals Industries
Nov-22	2-Nov-22	18770786	10.950	Choksey Chemicals Industries
	4-Nov-22	1878394	10.085	S R Chemical
	11-Nov-22	1884967	11.160	Choksey Chemicals Industries
	12-Nov-22	1887039	10.650	S R Chemical
	19-Nov-22	1894401	9.280	Choksey Chemicals Industries
Dec-22	23-Nov-22	1897065	8.610	S R Chemical
	28-Nov-22	1903286	9.335	Choksey Chemicals Industries
	8-Dec-22	1912324	10.005	Choksey Chemicals Industries
	13-Dec-22	1918119	10.125	S.R.Chemicals
	15-Dec-22	1920266	9.725	Choksey Chemicals Industries
	27-Dec-22	1931781	9.960	S R Chemical
	29-Dec-22	1934121	9.140	Choksey Chemicals Industries
Jan-23	10-Jan-23	1945480	9.085	S R chemicals
	11-Jan-23	1946439	9.315	Choksey Chemicals
	23-Jan-23	1957073	8.725	Choksey Chemicals
Feb-23	29-Jan-23	1963044	9.575	Choksey Chemicals
	8-Feb-23	1973290	18.745	Choksey Chemicals
	17-Feb-23	1982214	19.365	Choksey Chemicals
	21-Feb-23	1986103	9.975	S R chemicals
Mar-23	3-Mar-23	2025482	10.225	S R chemicals



Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
Mar-23	6-Mar-23	2027799	15.905	Choksey Chemicals
	24-Mar-23	2044969	9.860	S.R.Chemicals
	25-Mar-23	2046003	17.915	Choksey Chemicals
<b>TOTAL QUANTITY (In MT)</b>			<b>599.99</b>	

#### ANNEXURE-J

#### 4 Sodium Bisulphite Powder Cat: Not Applicable

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
No Generation and Disposal – The Balance qty. 4.2 MT is used inhouse				

#### ANNEXURE-K

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

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
No Generation and Disposal – The Balance qty. 0.072 MT is used inhouse				

#### ANNEXURE-L

#### 6 Sodium Bisulphite Solution (30%) Cat: Not Applicable

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users
Jan-23	6-Jan-23	1941334	25.590	Param Chemicals
	14-Jan-23	1949018	26.550	Aims Chemicals Industries
	16-Jan-23	1950391	23.835	Self Chem
	17-Jan-23	1951558	22.005	Aims Chemicals Industries
Feb-23	9-Feb-23	1973277	24.935	Param Chemicals
	16-Feb-23	1980621	18.255	Bini Chemical
	17-Feb-23	1982199	20.375	Shree Balaji Enterprise
	20-Feb-23	1984640	18.200	Bini Chemical
	21-Feb-23	1986184	23.180	Shree Balaji Enterprise
	22-Feb-23	1986938	18.430	Bini Chemical
	22-Feb-23	1987294	25.290	Shree Balaji Enterprise
	23-Feb-23	1988136	17.845	Bini Chemical
	25-Feb-23	1990425	26.755	Shree Balaji Enterprise
	27-Feb-23	1992166	25.090	Shree Balaji Enterprise
	28-Feb-23	1993266	14.650	Bini Chemical
Mar-23	7-Mar-23	2029162	18.650	Bini Chemical
	10-Mar-23	2030415	24.720	Param Chemicals
	11-Mar-23	2031889	24.675	Shree Balaji Enterprise
	23-Mar-23	2043714	24.920	Shree Balaji Enterprise
	27-Mar-23	2047682	24.745	Shree Balaji Enterprise
	28-Mar-23	2048685	24.675	Param Chemicals
	30-Mar-23	2051034	25.050	Param Chemicals
<b>TOTAL QUANTITY (In MT)</b>			<b>498.42</b>	

DATE: 5<sup>th</sup> June 2023

PLACE: Panoli

Signature of Factory manager /Occupier





Ref No. CIL/ INTER/Form -V/2021-22/09/05/22

**ID: 15016**

Date: 5<sup>Th</sup> September 2022

To

The Member Secretary

Gujarat Pollution Control Board,

Paryavaran Bhawan, Sector-10-A,

Ghandhinagar-382010

**SUB: - Submission of Environment Statement (FORM-V) for the Year 2021-22**

Respected Sir,

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

Please acknowledge the same.

This is for your kind perusal please

Thanking you,

Yours faithfully,

*ABN*

Cheminova India Limited. Panoli.  
Intermediate Division

Enclosures: Form —V

CC To: Regional Officer, GPCB, Ankleshwar.



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, 2022

**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) - LSI  
Secondary:- (SIC Code) Not Applicable  
Not Applicable
- iii) Production capacity:- Units - ANNEXURE-I
- iv) Year of establishment - 1998
- v) Date of the last environmental statement submitted - 6Th September 2021

**PART -B**

**Water & Raw Material Consumption**

- i) Water consumption - M<sup>3</sup>/day 377 m3/day
- Process - 129 m3/day
- Cooling - 210 m3/day
- Domestic - 24 m3/day
- Gardening - 13 m3/day

Name of products	Process water consumption per product output (Lit./ Kg)	
	During the previous financial year 2020-2021 (1)	During the current financial year 2021-2022 (2)
(1) Diethyl Thio Phosphoryl Chloride	9.10	6.85
(2) Azole group based products (Florasulam)	54.00	55.00
(4) Bixlozone (F-9600)	9.500	7.36



ii) Raw Material consumption				
* Name of raw materials	Name of Products	Consumption of raw material per unit of output		
		During the previous	During the Current	
		financial year	financial year	
		2020-2021	2021-2022	
1	Phosphorous	0.199	0.1948	
2	Sulphur	0.509	0.4980	
3	Ethanol	0.791	0.7970	
4	Caustic lye	0.120	0.2509	
5	Chlorine	0.492	0.4879	
6	Soda Ash	0.225	0.0699	
7	Homet P	0.762	0.7627	
8	TEA	1.054	1.0492	
9	POCl <sub>3</sub>	0.893	0.8989	
10	Hydrazine Hydrate	0.430	0.4315	
11	H <sub>2</sub> O <sub>2</sub>	0.418	0.4124	
12	CS <sub>2</sub>	0.460	0.4533	
13	Chlorine	0.938	0.9888	
14	2,6 DFA	0.589	0.5903	
15	Toluene	0.330	0.2784	
16	Caustic lye - 100 %	1.554	0.8681	
17	Methanol	0.211	0.7101	
18	30% HCl	2.406	2.3191	
19	MDC	0.824	0.8634	
20	SBS	0.545	0.0946	
21	ACN	0.335	0.3056	
22	IPA	0.247	0.2072	
23	Sodium Methoxide-25%	2.533	2.5209	
24	TBAHS	0.027	0.0292	
25	Common salt	0.280	0.2697	
26	Soda Ash	0.022	0.0225	
27	Sodium Bi carbonate	1.280	1.2584	
28	K <sub>2</sub> CO <sub>3</sub>	0.329	0.3539	
44	Isoxazolidinone solution,	0.629	0.6290	
45	Heptane	0.086	0.0784	
46	2, 4-DCBC	0.957	0.9492	
47	TBAB catalyst	0.075	0.0732	
48	48%Caustic lye	0.013	0.0135	

\* Industry may use codes if disclosing details of raw materials would violate contractual obligations, otherwise all industries have to name the raw materials used.

### PART-C

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

i) Pollutants	Quantity of pollutants Concentrations of discharged pollutants in discharges (mass/day) TPD (mass/volume) mg/l except pH & Temp. except pH & Temp.		Percentage of variation from prescribed standard with reasons
Average Flow 126.35 m <sup>3</sup> /d.			
a) <b>Water</b>	<b>TPD</b>	<b>mg/L</b>	
Total Dissolved Solid	0.8949	7082	---
Total Suspended Solid	0.0044	34.83	---
Chemical Oxygen Demand	0.0301	238.00	---
Biological Oxygen Demand	0.0060	47.33	---
Ammonical Nitrogen	0.0031	24.80	---





b) Air		TPD	mg/Nm <sup>3</sup>	
Sulphur Furnace	SPM	0.0052	47.80	---
	SOx	0.0026	24.000	---
	NOx	0.0016	14.80	---
	Cl <sub>2</sub>	BDL	0.867	---
	HCl	BDL	1.733	---
	CO	0.0015	14.000	---
Vent Incinerator	SPM	0.0065	35.27	---
	SOx	0.0088	47.455	---
	NOx	0.0048	26.18	---
	Cl <sub>2</sub>	BDL	0.91	---
	HCl	BDL	2.04	---
	CO	0.0031	16.818	---
Boiler	SPM	0.047	55.45 mg/nm3	---
	SOx	0.013	15.09 ppm	---
	NOx	0.019	22.18 ppm	---

#### **PART-D**

##### **Hazardous Wastes**

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

Hazardous wastes		Total Quantity (kg)	
		During the previous financial year 2020-2021	During the current financial year 2021-2022
a) From Process			
Category	Type of Waste		
	(1) Recovered Sulphur	11615	0
	(2) Used Oil	950	0
	(3) Evaporation Salt	0	0
	(4) Non Recyclable Plastic & Insulation Waste	26015	42600
	(5) Incineration Waste	314425	81625
	& Co Processing	206430	3017970
	(6) Asbestos Sheet	6860	0
b) From Pollution Control facilities			
	ETP Sludge	1147975	514230
By products	Sodium Hydro sulfide 30%	2748190	2766860
	Hydrochloric Acid 30%	3564520	3485360
	Phosphoric Acid	566165	606655
	Sodium Bisulphite Powder	1165560	383600
	Sodium Sulphite 30%	0	68050
	Sodium Bisulphite Solution (30%)	3501685	1084135

#### **PART-E**

##### **Solid Wastes**

	Total Quantity in Kgs	
	During the previous financial year 2020-2021	During the current financial year 2021-2022
a) From Process	Nil	Nil
b) From Pollution Control facilities	Nil	Nil
c) 1) Quantity recycled or re-utilized within the unit	Nil	Nil
2) Sold		
Discarded Container / Drum Cut sheet	92950	94915
3) Disposed	Nil	Nil



**PART -F**

Please specify the characterizations (in terms of composition and quantum) of Hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

KINDLY REFER ANNEXURE-2

**PART -G**

Impact of the pollution control measures on conservation of natural resources and on the cost of production.

- (1) Use of Non- Conventional Energy - Solar and wind Power from supplier is continued and agreement is made to have Sustainable
- (2) 4Rth project has been implemented to conserve natural resources and reduce cost of production
- (3) Use of Briquette as fuel is continued and prioritize its consumption with respect to Natural Gas
- (4) Recycling of steam condensate is being done , which had reduced water consumption

**PART -H**

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

ZLD Plant is installed and the treated water is recycled back in cooling - boiler and process

**PART - I**

Any other particulars for improving the quality of the environment.

- (1) Zero liquid discharge (ZLD) have been implemented by installing R.O.Plant, MEE Plant & ATFD Plant
- (2) Sewage Treatment plant is installed to treat the domestic water separately
- (3) World Environment DaY was celebrated on 5th June and tree plant was done inside the premises

Date: 5-Sep-22

(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.

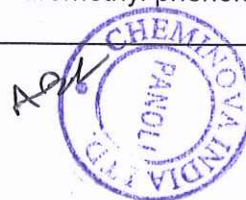




# ANNEXURE –1

## PRODUCTION CAPACITY (MT / YEAR)

Sr. No.	Products	Total Capacity
		(MT/Annum)
1	Phosphorus Trichloride (PCl <sub>3</sub> )	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 <sub>2</sub> S <sub>5</sub> )	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), Pyriothobac-Sodium(H), Methoxy Amine Hydrochloride (int), 2-hydroxyphenyl Acetic Acid (HPAA) (int)]etc.	150
9	Amide group based products [Pretiracrior (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-1,3,5-Triazine (MMMT) (Int)] etc.	300
11	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 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 Cyhathrin (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 intermediate 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) Cloquintocet Mexyl (H), Acetamiprid (I), 4,6-DiChloro Pyridine (Int)], Azoxystrobin (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





## CHARACTERISATION OF HAZARDOUS WASTE

SR. NO.	NAME	PHYSICAL FORM	WASTE CATE GORY No.	SP. GR.	% SOLIDS	CHEMICAL COMPOSITION	METHOD OF DESPOSAL
1	ETP SLUDGE	Solid	34.3	-----	85	CaO - 55 % P2O5 - 15 % SiO2 - 5 % Water - 15 % Other CaSalts - 10 %	Disposal to Common TSDF facility of M/s. BEIL, Ankleshwar & M/s. SEPL
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 Decontamination Facility . Bags/Liners disposed to Common TSDF facility of M/s. BEIL, SEPL & 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 Send for coprocessing / preprocessing to RSPL/ Eco waste
6	SOLID WASTE ( EVAPORATION SALT)	Solid	29.1	-----	-----	Mostly In-Organic compound	Disposal to Common TSDF facility of M/s. BEIL, Ankleshwar & M/s. SEPL
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

