

Date: 26-04-2024

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

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

Sub: Submission of Compliance Report of M/s. Cheminova India Limited (Intermediate Division) for our EC No. IA-J-11011/53/2018-IA-II (I), dated 31/12/2019 for the period of October 2023 to March 2024.

Respected Sir,

In accordance to the condition specified in our EC, we hereby submit duly filled datasheet for monthly Monitoring report (October 2023 to March 2024) for implementation of stipulated conditions of our EC together with point wise compliance status of various stipulations.

Following are the Annexure to this report:

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

Please find the above in order and acknowledge receipt.

Thanking You,

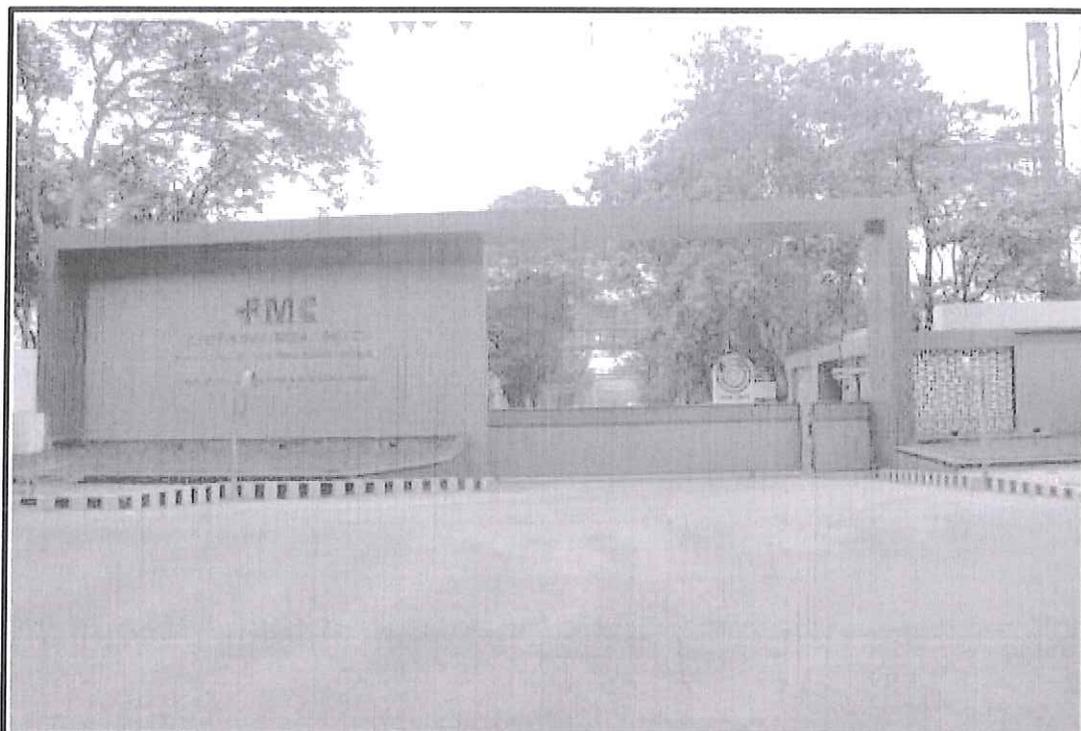
Yours faithfully,
For M/s. Cheminova India Limited (Intermediate Division)


Authorized Signatory

SIX MONTHLY EC COMPLIANCE REPORT

(October 2023 to March 2024)

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



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: 01.10.2023 to 31.03.2024

No. Cheminova-Int/EC-Datasheet/01-2024																	
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 st 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 Plot No. (27+28)/A, Notified GIDC Industrial Estate, Panoli, Dist. Bharuch 394 116, State-Gujarat, India. Tel. – 9714993368 / 02646618522																
	b]. Address of Executive Project Engineer / Manager (with Pin code / Fax Number) : Mr. Anil N Shah Plot No. (27+28)/A, Notified GIDC Industrial Estate, Panoli, Dist. Bharuch 394 116, State-Gujarat, India. Tel. – 9714993368 / 02646618522																
6	Salient Features																
	a]. Of the Project : As detailed below																
	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%; text-align: left;">Components</th> <th style="text-align: left;">Proposed Scenario</th> </tr> </thead> <tbody> <tr> <td>EC No.</td> <td>IA-J-11011/53/2018-IA-II(I)</td> </tr> <tr> <td>Environmental Clearance accorded for-</td> <td>Product name attached in Annexure-1</td> </tr> <tr> <td>Total Power Requirement</td> <td>3500 KVA</td> </tr> <tr> <td>Source of Power</td> <td>DGVCL</td> </tr> <tr> <td>Fresh Water requirement</td> <td>764 KL/day</td> </tr> <tr> <td>Source of Water Supply</td> <td>GIDC water supply</td> </tr> <tr> <td>Wastewater Generation</td> <td>Industrial: 833 KL/day Domestic: 45 KL/day</td> </tr> </tbody> </table>	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
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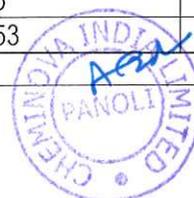
SIX MONTHLY EC COMPLIANCE REPORT

Process Emissions	HCl, NH ₃ , Cl ₂ , SO ₂ , NO _x , H ₂ S, CO, HC, PM, Acid Mist	
Flue Gas Emission	PM, SO ₂ , NO _x	
Fuel Type	Natural gas, HSD, Briquettes/ Bagasse/ Groundnut shell	
Fuel Requirement	Natural Gas- 10800 Nm ³ /h, HSD- 800.7 L/h, Briquettes/ Bagasse/Groundnut shell - 2970 kg/h	
Man power	Total: 600 (Company + Contract) employees	
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"> • To monitor the ambient air quality parameters and flue gas emissions within premises and also in the nearby area regularly and to compare with the regulating standards so that any necessary corrective actions can be taken. • Work place monitoring to be carried out periodically to check fugitive emissions, if any. • To develop and maintain greenbelt, in and around the factory, for reducing the effect of air pollutants due to their deposition. • To follow proper loading and unloading practices to minimize dusting • To maintain proper record for the fuel consumption, start-up time and duration of boiler operation towards energy conservation 	<ul style="list-style-type: none"> • Company maintains its own records and monitors the ambient air and flue gas emission within premises periodically. Monitoring of ambient air & flue gas analysis is done by Siddhi Green Excellence Pvt Ltd., Ankleshwar. • Workplace monitoring is carried out inhouse and also periodically by Siddhi Green Excellence Pvt Ltd., Ankleshwar. • Unit has developed & maintained greenbelt area inside and outside the factory. • Unit is having closed system for loading and unloading of chemicals. • Unit is maintaining records for the fuel consumption and duration of boiler operation towards energy conservation
3	For Water Environment Management <ul style="list-style-type: none"> • To investigate possibilities of water reuse and recycling for reducing water consumption and wastewater generation • Records of water consumption, effluent generation, effluent discharge, water characteristics, treated and untreated effluent characteristics to be maintained. • To monitor the adequacy and efficiency of ETP so that the effluent is given suitable treatment and the treated effluent meets specified norms of available CC&A of GPCB. • The effluent collection and discharge drainages, effluent handling and treatment systems to be maintained and regularly monitored to prevent leakages or sudden break-down. • Proper house-keeping to be adopted to prevent spillages and contaminated surface runoff going to storm water drains. 	<ul style="list-style-type: none"> • Reuse and recycling of water is done. Roof Top rainwater harvesting facility is provided and water is collected and reused. • Unit is maintaining records of water consumption, effluent generation, water characteristics, treated and untreated effluent characteristics. • The adequacy and efficiency of ETP is maintained well and the effluent is treated appropriately at all the stages. The Treated effluent is further processed in R.O. Plant and MEE & ATFD Plant. The R.O. Permeate is reused within premises. • The effluent collection, handling and treatment systems are maintained and regularly monitored to prevent leakages or sudden break-down. The preventive maintenance of all ETP units is taken periodically. • Good housekeeping is maintained to prevent spillages and contaminated surface runoff going to storm water drains.



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4	<p>For Hazardous / Non-hazardous waste management</p> <ul style="list-style-type: none"> • Proper storage and handling arrangements in compliance to the conditions of authorization granted by SPCB. • Proper signboards to be provided at relevant places. • All the necessary regulatory procedures as per the amended Hazardous Waste Management & Handling Rules – 2003 to be followed and adhered with. • The transportation of hazardous waste to the TSDF Site to be as per the guidelines and accompanied with Form-9. • Monthly records of generation, storage and disposal of hazardous waste should be maintained in a record register as per the format of Form-3 as per amended Hazardous Waste rules – 2003 and annual returns of disposal to be submitted to SPCB in prescribed form – 4 and form – 13. 	<ul style="list-style-type: none"> • Unit has a dedicated storage areas for storage of all types of wastes. All the conditions stipulated in Authorization is complied. • Signboards are provided at relevant places. • Unit is following all the applicable regulatory procedures as per the amended Hazardous Waste Management & Handling Rules – 2016. • Unit is following guideline for transportation of hazardous waste to TSDF & CHWIF of M/s. BEIL. / Safe Enviro / SEPPIL etc. Transporter is provided Form -9 with each consignment. • 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. 																				
7	Production details during compliance period and (or) during the previous financial year	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="2">Production Details</th> </tr> <tr> <th>Month</th> <th>Quantity (MTM)</th> </tr> </thead> <tbody> <tr> <td>October 2023</td> <td>420.000</td> </tr> <tr> <td>November 2023</td> <td>470.000</td> </tr> <tr> <td>December 2023</td> <td>460.000</td> </tr> <tr> <td>January 2024</td> <td>428.930</td> </tr> <tr> <td>February 2024</td> <td>240.450</td> </tr> <tr> <td>March 2024</td> <td>220.270</td> </tr> </tbody> </table>	Production Details		Month	Quantity (MTM)	October 2023	420.000	November 2023	470.000	December 2023	460.000	January 2024	428.930	February 2024	240.450	March 2024	220.270				
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8	Break Up of the Project Area	Unit is located in G.I.D.C Panoli. (Notified area)																				
	a]. Submergence area: forest & non-forest																					
	b]. Others																					
9	Breakup of the project affected population with enumeration of those losing houses / dwelling units, only agricultural land, dwelling units & agricultural land & landless laborers / artisan.	Unit is located in G.I.D.C Panoli. (Notified area)																				
	a]. SC , ST / Adivasis	: ---																				
	b]. Others	: ---																				
	(Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey is carried out give details and years of survey)	: ---																				
10	Financial Details																					
	a]. Project cost as originally planned and subsequent revised estimates and the year of price reference	: Rs. 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 border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <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> </thead> <tbody> <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 & Management</td> <td>153</td> <td>90</td> </tr> </tbody> </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	
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SIX MONTHLY EC COMPLIANCE REPORT

	5	Occupational Health & Safety	50	12
	6	Green Belt development & maintenance	20	5.0
	7	Solid waste management	228	8290
	TOTAL Planned		2505	10200
	c]. Benefit cost ratio / Internal rate of return and the year of assessment		: Not applicable	
	d]. Whether (c) includes the cost of environmental management as shown in the above		: Yes	
	e]. Actual expenditure incurred on the project so far		: 742.56 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		: 08-10-2023 (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.)		: --	



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Annexure 1 -Compliance report of Environment Clearance

Sr. No.	Conditions		Quantity (MT/Annum)			Compliance Status
	Existing (TPA)	Proposed (TPA)	Total (TPA)	Month	Quantity (MT/Month)	
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).		1000	--	1000	Noted
			100	--	100	
3.	The details of products are as under:-		5330	2670	8000	Noted. Unit has been obtained partial CC&A Amendment. Production data as per existing CTO is as below: Production Details for Compliance period: October 2023 to March 2024
	1. Phosphorous Trichloride (PCl ₃)/ Phosphoryl Chloride (POCL ₃)	1000	--	1000		
	2. Tri Methyl Phosphite(TMP) OR Tri Ethyl Phosphite(TEP)	100	--	100		
	3. Diethyl Thio Phosphoryl Chloride (DETPC)/Sodium Salt Of Diethyl Thio Phosphoryl Chloride (Na-DETA)	5330	2670	8000		
	4. Cyhalothrin Acid	250	--	250		
	5. Phosphorous Penta Sulphide(P ₂ S ₅)	3400	--	3400		
	6. Acid Based Products [2-Bronobutyric Acid (INT), Ethyl 2-(4-Hydroxy Phenoxy) Propionate (O- HPPA) (INT), Thiocyclam (I), Bisyribac-Sodium (H), Methoxy Amine Hydrochloride (INT), 2-Hydroxyphenyl Acetic Acid (HPPA) (INT), Amino Acid (INT)] etc.	150	--	150		
	7. Amide Group Based Products [Pretiachlor (H), Captan (F), Cymoxanil (F), Beflbutamide (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), Fluzazinam (F), Metaixyl (F), Famoxadone (F)] etc.	1200	--	1200		
	9. Azine group based products Fenpyroximate (I), Metribuzin (H), Pymetrozin (I), Arnitraz (I), Indoxacarb (I), Cofentazine (I), 2-Methoxy-4-Methyl-6-Methylamino-1,3,5-Triazine (MIMT) (INT) etc.	300	--	300		
	10. Azole Group Based Products [Fipronil (I), Hexaconazole (F), Propiconazole (F), Difenconazole (F), Tricydazole (F), Myclobutanil (F), Florasulam (H), Tebuconazole (F), Flusilazole (F), Tridemefon, Paclobutrazol (F), Thiamethoxam (I), Flutriafol (F), (Safener)oxadifen Ethyl (Int), Iridacloprid (I), 2, 6 Dichlorobenzoxazolone(Int), Penoxasulam(H)] etc.	200	--	200		



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Sr. No.	Conditions	500	--	500	Compliance Status
11.	Carbamate Group Based Product [Thiodicarb(l), Propineb (F), Metiram (F), Thiram(F), Cartap Hydrochloride (l), Thiophanate Methyl (F)] etc.	500	--	500	
12.	Ester group based products [Fenoxaprop-p-Et (H), Clodinafop-Pr(H), Quizalofop-p-ethyl (H), Quinzoifop-p-terfury(H), Cyhalofop(H), Isoprothiolane (F), Alphamethrin(l), Lambda Cyanothrin(l), Cypermethrin (l), Bifentazate(l), Prathalide (Int) etc.	300	--	300	
13.	Ether group based products [Propargite(l), oxyfluorfen(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 (l) or its intermediate Na-TCP (Int), Acephate(l), Monocrotophos(l) or its intermediates MCM/MAA (Int.), Dimethoate (l), Profenofos(l), Ethephon (PGR)] etc.	5000	--	5000	
16.	Pyridine group based product [Pyridalyl(l), Imazethapyr(H), Cloquintocet Methyl(H), Acetamiprid (l), 4, 6-DiChloro Pyridine (Int)], Azoxystrobin(F) etc	250	--	250	
17.	Urea group based product [Buprofezin(l), Lufenuron (l), Linuron (H), Diafenthiuron(l), Diuron (H), Novaluron (l), Chlorimuron (Int), Hexythiazox(l), Spiromesifen(l), Azimsulfuron(H), Sulfonyl Ureas(H)] etc.	100	--	100	
18.	Phenol group based product [2- Cyanophenol (Int), 4- Fluro-3-trifluoromethylphenole (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.	Ethamsulfuron Methyl	---	10	10	

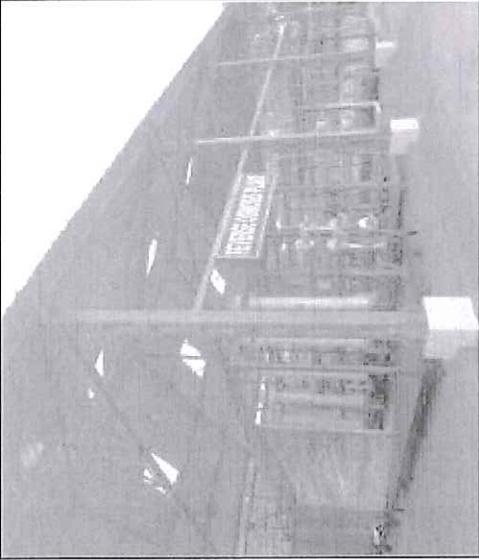
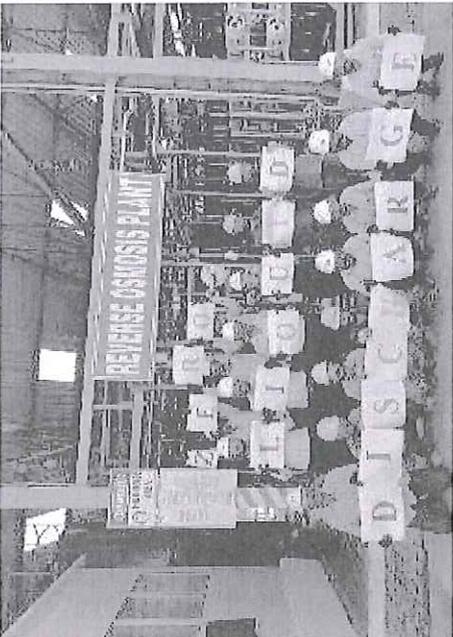


SIX MONTHLY EC COMPLIANCE REPORT

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33. Chlorsulfuron	---	60	60																			
34. Triflousulfuron Methyl	---	50	50																			
35. Azimsulfuron	--	4	4																			
36. Flupyrsulfuron Methyl Sodium	---	12	12																			
Total	19705	27976	47681																			
4.	<p>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.</p>	<p>Noted. 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) and total green belt area is 40%.</p>																				
5.	<p>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.</p>	<p>Noted. Unit is located within Notified GIDC Industrial Estate, Panoli.</p>																				
6.	<p>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.</p>	<p>Total GIDC water consumption data as per existing CTO is as below:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Month</th> <th style="text-align: center;">Quantity (KL/Month)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">October 2023</td> <td style="text-align: center;">8602</td> </tr> <tr> <td style="text-align: center;">November 2023</td> <td style="text-align: center;">7896</td> </tr> <tr> <td style="text-align: center;">December 2023</td> <td style="text-align: center;">7954</td> </tr> <tr> <td style="text-align: center;">January 2024</td> <td style="text-align: center;">6678</td> </tr> <tr> <td style="text-align: center;">February 2024</td> <td style="text-align: center;">4427</td> </tr> <tr> <td style="text-align: center;">March 2024</td> <td style="text-align: center;">5195</td> </tr> </tbody> </table>	Month	Quantity (KL/Month)	October 2023	8602	November 2023	7896	December 2023	7954	January 2024	6678	February 2024	4427	March 2024	5195						
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February 2024	4427																					
March 2024	5195																					
	<p>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.</p>	<p>All the Industrial wastewater is treated through Effluent Treatment Plant, MEE and R.O. plant and recycled to process. There is no discharge of treated /untreated wastewater outside the unit. Zero Liquid Discharge is ensured.</p> <p>Total wastewater generation/ treatment in RO MEE Plant and maintain ZLD is as below:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Month</th> <th style="text-align: center;">Quantity (KL/Month)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">October 2023</td> <td style="text-align: center;">4608</td> </tr> <tr> <td style="text-align: center;">November 2023</td> <td style="text-align: center;">4218</td> </tr> <tr> <td style="text-align: center;">December 2023</td> <td style="text-align: center;">4437</td> </tr> </tbody> </table>	Month	Quantity (KL/Month)	October 2023	4608	November 2023	4218	December 2023	4437												
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SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status													
	<div style="display: flex; justify-content: space-around;">   </div> <p>RO Plant</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>January 2024</td> <td style="text-align: center;">3571</td> </tr> <tr> <td>February 2024</td> <td style="text-align: center;">2582</td> </tr> <tr> <td>March 2024</td> <td style="text-align: center;">2950</td> </tr> <tr> <td colspan="2" style="text-align: center;">MEE Plant</td> </tr> </table>	January 2024	3571	February 2024	2582	March 2024	2950	MEE Plant						
January 2024	3571														
February 2024	2582														
March 2024	2950														
MEE Plant															
	 <p>At present unit has obtained partial CTO Amendment. Hence Present power consumption is 2700 KVA. Unit shall comply with the given condition. The details of total Power consumption met by M/s Dakshin Gujarat Vij Company Limited (DGVCL) as below</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Month</th> <th style="width: 85%;">Power Consumption (Kwh)</th> </tr> </thead> <tbody> <tr> <td>October 2023</td> <td style="text-align: center;">863430</td> </tr> <tr> <td>November 2023</td> <td style="text-align: center;">855360</td> </tr> <tr> <td>December 2023</td> <td style="text-align: center;">926730</td> </tr> <tr> <td>January 2024</td> <td style="text-align: center;">798990</td> </tr> <tr> <td>February 2024</td> <td style="text-align: center;">571170</td> </tr> <tr> <td>March 2024</td> <td style="text-align: center;">641760</td> </tr> </tbody> </table>	Month	Power Consumption (Kwh)	October 2023	863430	November 2023	855360	December 2023	926730	January 2024	798990	February 2024	571170	March 2024	641760
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SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status
	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.	Noted and complied.
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 rd March, 2018. Public hearing is exempted in accordance with the Ministry's OM dated 27 th 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 th 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.
10.	The proposal was further examined in the Ministry in accordance with the Ministry's Office Memorandum dated 31 st October 2019 and Ministry's communication dated 24 th 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:- (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 th October, 2019 and forwarded by Central Pollution Control Board vide letter dated 25 th 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.	Noted. Consent to Establish has been granted by GPCB, Outward No. 15866 on dated 4 th June 2020. CTO Amendment granted by GPCB on 1 st January 2024 having AWH – 129487 with a validity up to 4 th -Mcrh I-2027. Unit has obtained CC&A Amendment and Zero Liquid Discharge is ensured and no waste/treated water is discharged outside the premises Unit has obtained all necessary authorization under the Hazardous and Other Wastes (Management and Trans-



SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status														
	<p>Boundary Movement) rules, 2016, from the GPCB Solid Waste Management Rules, 2016 are not applicable.</p> <p>Noted. National Emission Standards are complied.</p>	<p>Boundary Movement) rules, 2016, from the GPCB Solid Waste Management Rules, 2016 are not applicable.</p> <p>Noted. National Emission Standards are complied.</p>														
	<p>(iv) National Emission Standards for Pesticides Manufacturing Industry issued by the Ministry vide G.S.R.446(E) dated 13th June, 2011, as amended from time to time, shall be followed.</p> <p>(v) No pesticides/chemicals banned by the Ministry of agriculture and Farmers welfare, or having LD₅₀<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.</p> <p>(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.</p> <p>(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.</p> <p>(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.</p>	<p>Unit commits that No pesticides/chemicals banned by the Ministry of agriculture and Farmers welfare, or having LD₅₀<100 mg/kg shall be produced and no prohibited raw material/solvent shall be used for production.</p> <p>All the pollution control devices are provided as stated in consent issued by State Pollution Control Board to comply with the gas emissions standard. The gaseous emissions are dispersed through stack of adequate height as prescribed in consent</p> <p>All requirements of effective Solvent management Plan are implemented.</p>														
		<p>Complied. Fresh water consumption data is as below:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Month</th> <th style="text-align: center;">Quantity KL/Month</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Oct-23</td> <td style="text-align: center;">8602</td> </tr> <tr> <td style="text-align: center;">Nov-23</td> <td style="text-align: center;">7896</td> </tr> <tr> <td style="text-align: center;">Dec-23</td> <td style="text-align: center;">7954</td> </tr> <tr> <td style="text-align: center;">Jan-24</td> <td style="text-align: center;">6678</td> </tr> <tr> <td style="text-align: center;">Feb-24</td> <td style="text-align: center;">4427</td> </tr> <tr> <td style="text-align: center;">Mar-24</td> <td style="text-align: center;">5195</td> </tr> </tbody> </table>	Month	Quantity KL/Month	Oct-23	8602	Nov-23	7896	Dec-23	7954	Jan-24	6678	Feb-24	4427	Mar-24	5195
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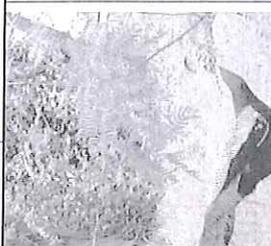


SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status									
	<p>(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</p> <p>(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.</p> <p>(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.</p>	<p>Well-structured storm water drainage network is provided in such a way that process effluent / any wastewater is not getting mixed.</p> <p>All the Hazardous chemicals are stored in tanks, tank farms, drums, carboys etc. Flame arresters are provided at all the tanks. Solvent transfer is done through pumps in closed loop system.</p> <p>Hazardous waste disposal details during the period October 2023 to March 2024 is as below:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Hazardous Waste Name</th> <th style="text-align: center;">Disposal Quantity (MT)</th> <th style="text-align: center;">Disposal mode</th> </tr> </thead> <tbody> <tr> <td>Process waste and res residue</td> <td style="text-align: center;">748.045</td> <td>Co-Processing</td> </tr> <tr> <td>ETP sludge</td> <td style="text-align: center;">1084.415</td> <td>TSDF site</td> </tr> </tbody> </table>	Hazardous Waste Name	Disposal Quantity (MT)	Disposal mode	Process waste and res residue	748.045	Co-Processing	ETP sludge	1084.415	TSDF site
Hazardous Waste Name	Disposal Quantity (MT)	Disposal mode									
Process waste and res residue	748.045	Co-Processing									
ETP sludge	1084.415	TSDF site									
	<p>(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.</p>	<p>Unit stores all the hazardous chemicals based on the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. Also all safety measures are taken for transportation of Hazardous chemicals and guidelines of the Motor Vehicle Act, 1989 are complied.</p> <p>Unit follows all the waste minimization measures.</p>									
	<p>(xiii) The company shall undertake waste minimization measures as below:-</p> <p>(a) Metering and control of quantities of active ingredients to minimize waste.</p> <p>(b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.</p> <p>(c) Use of automated filling to minimize spillage.</p> <p>(d) Use of Close Feed system into batch reactors.</p> <p>(e) Venting equipment through vapor recovery system.</p> <p>(f) Use of high-pressure hoses for equipment clearing to reduce wastewater generation.</p>										
	<p>(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.</p>	<p>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%.</p>									



SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions				Compliance Status
	 <p>Greenbelt along Boiler side</p>	 <p>Near MPPH Plant</p>	 <p>Behind ETP Plant</p>	 <p>Greenbelt Development</p>	<p>(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.</p> <p>Unit follows the given condition. Fund allocation for CER/CSR jobs for both Technical & Intermediate are as follow:</p> <ul style="list-style-type: none"> • Providing skill training and support for women empowerment to Kharod village = 6.50 lakh =completed in June2022 • Providing skill training and support for women empowerment to Sanjali village = 6.50 lakh =completed in June2022 • Providing streetlight and solar roof top to Umarwada village as sustainable solution = 25 lakh = Completed in May2022 • Sponsorship of Cricket tournament trophy to kharod village to encourage sports activities in younggeneration= 1.15 lakh = completed in June22 <p>Total Fund Allocation In CER= 39.15 Lakh</p>

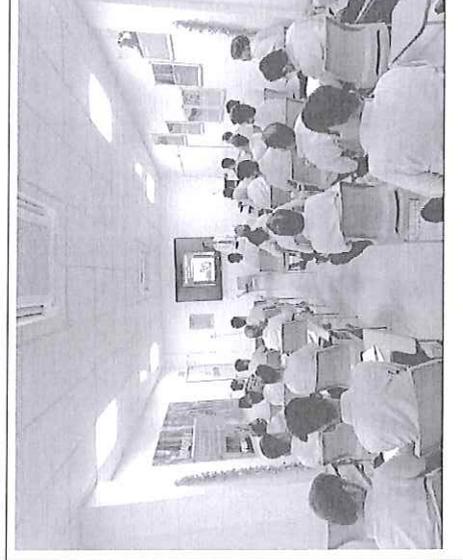


SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status
	(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:
Details of the in-House training programs as per EHS Standard are as follow.		
Sr. No.	Standard	Program Name
1	Hot Work Standard	EHS Panoli_HotWork Standard
2	Confined Space Entry Standard	EHS Panoli Confined Space Entry Standard
3	Electrical Safety Standard	EHS Panoli Electrical Safety Standard
4	Energy Isolation, Lockout/Tagout Standard	EHS Panoli Energy Isolation, Lockout/Tagout Standard
5	Elevated Work Standard	EHS Panoli Elevated Work Standard
6	Line Breaking & Equipment Opening Standard	EHS Panoli Line Breaking & Equipment Opening Standard
7	Hazard Assessment & Mitigation Standard	EHS Panoli Hazard Assessment & Mitigation Standard
8	Hose Management Standard	EHS Panoli Hose Management Standard
9	Decommissioning	EHS Panoli Decommissioning
10	MSDS Standard	EHS Panoli MSDS Standard
11	Glassware Handling Standard	EHS Panoli Glassware Handling Standard
12	Chemical Storage Standard	EHS Panoli Chemical Storage Standard
13	Fume Hood Standard	EHS Panoli Fume Hood Standard
14	Open Blade Standard	EHS Panoli Open Blade Standard
15	Personal Protective Equipment & Glove Use program	EHS Panoli Personal Protective Equipment & Glove Use program
16	Contract safety Standard	EHS Panoli Contract safety Standard
17	Breathing Air Standard	EHS Panoli Breathing Air Standard
18	Event Reporting standard	EHS Panoli Event Reporting standard
19	Effective Injury And Illness Case Management	EHS Panoli Effective Injury And Illness Case Management
20	Ground Transportation Safety Standard	EHS Panoli Ground Transportation Safety Standard
21	PSM Standard	EHS Panoli PSM Standard
22	Emergency response plan	EHS Panoli Emergency response plan



SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status
	<p>Photographs of trainings:</p>   	<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: Emissions are within specified limits. Acoustic enclosure is provided to DG set for controlling the noise pollution.</p>



SIX MONTHLY EC COMPLIANCE REPORT



REPORT NO.: SCCLD/ST/MAR/2024/01 Date of Issue: 21-03-2024
 Issued to: M/s. CHEMINOVA INDIA LTD. (INTERMEDIATE DIV.)
 Address: PLOT NO.27,28A GIDC ESTATE,PANOLI, TA: ANKLESHWAR, DIST: BHARUCH-384116

TEST REPORT
 REPORT NO.: SCCLD/ST/JAN/2024/03 Date of Issue: 20-01-2024
 Issued to: M/s. CHEMINOVA INDIA LTD. (INTERMEDIATE DIV.)
 Address: PLOT NO.27,28A GIDC ESTATE,PANOLI, TA: ANKLESHWAR, DIST: BHARUCH-384116

SR.NO.	DESCRIPTION	Particulars of Sample	FLUE GAS STACK EMISSION ANALYSIS
1	PCB ID of Stack	00089	Stack No.1
2	Sample ID	SC200-FS-01	8985
3	Name of Stack	BOILER	31306-FS-02
4	Details of Air Pollution Control Measure (APCM)	Dust Collector- Big Filter	D.G.SET (1250 KVA)
5	Date & Time of sampling	16-03-2024 & 10:40h	D.G.SET (1250 KVA)
6	Date of Receipt	15-03-2024	12-01-2024 & 13:55 h
7	Date of Analysis start	16-03-2024	12-01-2024
8	Date of Completion	17-03-2024	13-01-2024

SR.NO.	DESCRIPTION	Particulars of Sample	FLUE GAS STACK EMISSION ANALYSIS
1	PCB ID of Stack	00089	Stack No.2
2	Sample ID	31306-FS-02	8985
3	Name of Stack	D.G.SET (1250 KVA)	31306-FS-02
4	Details of Air Pollution Control Measure (APCM)	D.G.SET (1250 KVA)	D.G.SET (1250 KVA)
5	Date & Time of sampling	12-01-2024 & 13:55 h	D.G.SET (1250 KVA)
6	Date of Receipt	12-01-2024	12-01-2024
7	Date of Analysis start	13-01-2024	13-01-2024
8	Date of Completion	13-01-2024	13-01-2024

Sampling Plan & Sampling Method Used: Lab Document SCCLAB/01

Sampling Plan & Sampling Method Used: Lab Document SCCLAB/01

SR.NO.	DESCRIPTION	Particulars of Sample	FLUE GAS STACK EMISSION ANALYSIS	
1	Make	Universal Instruments	Instrument ID: 9C-STM-04	
2	Model	EGS 226	9C-STM-04	
3	Serial No.	02-DTK-0218	Calibration Valid upto: 01-03-2026	
1	Stack Height	40 m		
2	Stack Diameter	850 mm		
3	Temperature of Flue gas	144°C		
4	Velocity of Flue gas	8.4 m/s		
1	Type of Fuel	Briquette		
2	Rate of Consumption	40 T/D		
PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE 2)	RESULTS
1	PM @ 12% CO2	IS 11255 (Part 2)-1985	120	71
2	SO2	IS 11255 (Part 2)-1985	80	15
3	NOx	IS 11255 (Part 2)-1985	40	23

SR.NO.	DESCRIPTION	Particulars of Sample	FLUE GAS STACK EMISSION ANALYSIS	
1	Stack Height	8 m		
2	Stack Diameter	400 mm		
3	Temperature of Flue gas	120°C		
4	Velocity of Flue gas	9.2 m/s		
1	Type of Fuel	HSD		
2	Rate of Consumption	50 L/h		
PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE 2)	RESULTS
1	PM @ 12% CO2	IS 11255 (Part 2)-1985	120	35
2	SO2	IS 11255 (Part 2)-1985	60	23
3	NOx	IS 11255 (Part 2)-2005	40	30
4	CO	SCCLAS/ST/STK-05		21

Additional to, deviations, or excursions from the method -None
 Results from external providers, if any: -None
 Any other remarks: -None
 Abbreviations used: -None
 Reviewed by: *[Signature]*
 Authorized Signatory: *[Signature]*
 M/s. K. P. Shah & Co. Pvt. Ltd.
 1st Floor, Plot No. 27/28A, GIDC Estate, Panoli, Tal. Ankleshwar, Dist. Bharuch, Gujarat - 384116

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 1st Floor, Plot No. 27/28A, GIDC Estate, Panoli, Tal. Ankleshwar, Dist. Bharuch, Gujarat - 384116

Notes: 1. Test results shall be referred to the actual sample(s) only and applicable corrected (if any).
 2. Permissible limit (if mentioned) in report are given by customer and included in the report upon request by customer. If not, permissible limit shall be as per applicable regulatory requirements.
 3. Certificates of accreditation are available on the website with scope of validity. If not, certificate of accreditation shall be provided by customer.
 4. The company and its representatives if mentioned in report, shall be taken on request by customer and information supplied by customer.
 5. Available samples will be deposited 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 resolution system. Discrepancies if any in the test report must be brought to notice within 7 days of issue of test report.
 7. This report shall not be used as evidence in the court of law and shall not be reproduced except in full, without prior written approval of Siddhi Green Excellence Pvt. Ltd.

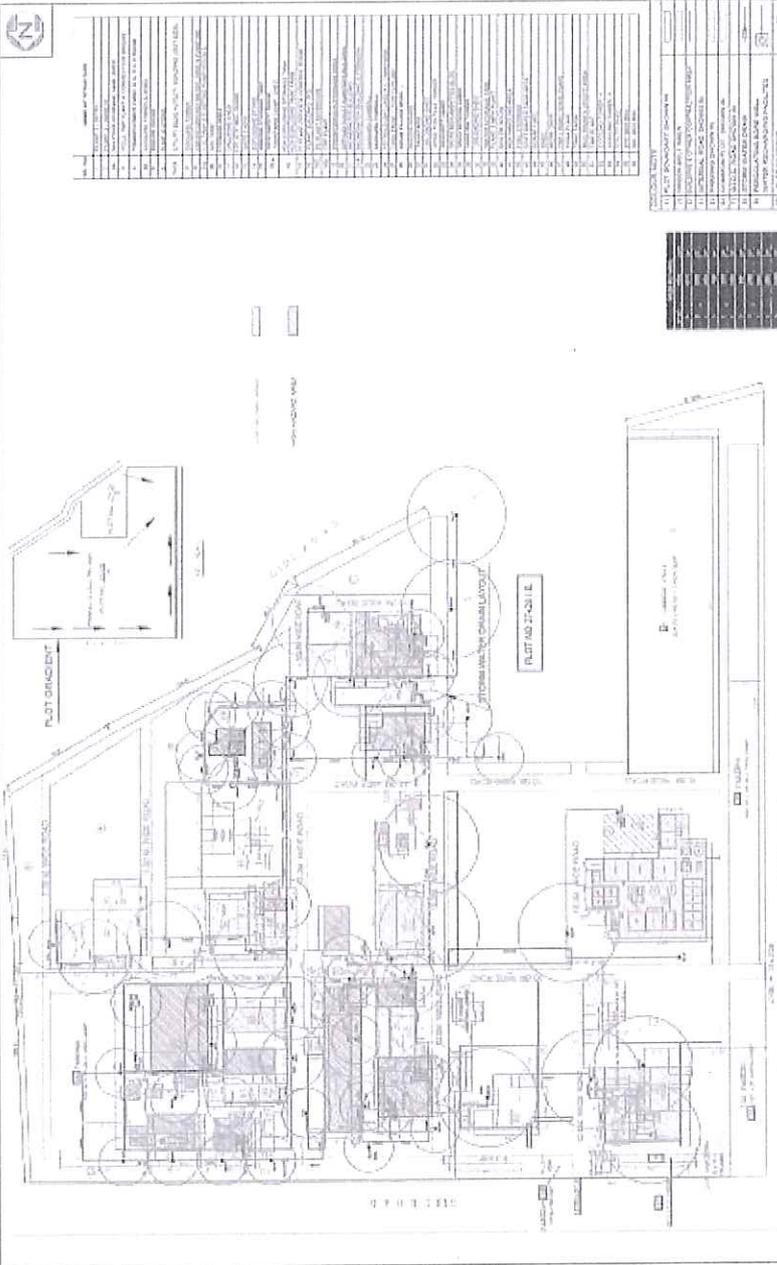
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*** End of Report ***
 Page 1 of 1
 Form No.: SCCLAB/ST/Report-03 Issue No.: 02 Issue Date: 21-03-2024 Revision No.: 04 Revision Date: 05-03-2024
 www.siddhigreen.com
 1st Floor, Plot No. 27/28A, GIDC Estate, Panoli, Tal. Ankleshwar, Dist. Bharuch, Gujarat - 384116
 : Office : 0221-2500000
 : Dinesh Diji
 : SANKARAVENKATESHVARAN NO 87/37
 : P.O. JALVA TA. VADGA, DIST BHARUCH
 : GUYANA
 : 0221-2500000
 : Email: siddhi@sgmail.com

*** End of Report ***
 Page 1 of 1
 Form No.: SCCLAB/ST/Report-03 Issue No.: 03 Issue Date: 20-01-2024 Revision No.: 04 Revision Date: 05-03-2024
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 1st Floor, Plot No. 27/28A, GIDC Estate, Panoli, Tal. Ankleshwar, Dist. Bharuch, Gujarat - 384116
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 : Email: siddhi@sgmail.com



SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status
	<p>(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.</p> 	<p>All the arrangements are made for protection of possible fire hazard during manufacturing process and material handling. The Fire hydrant system and fire extinguisher are available in all the areas and safe practices are adopted for handling and processing of flammable materials.</p>



SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.

Conditions

Compliance Status

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

Pre-employment and regular medical checkup of company employees as well as contract employees is done by Factory Medical Officer and records are maintained.

Photograph of medical checkup report is attached below.

MAHAVIR
DIAGNOSTIC CENTRE
 EARLY DIAGNOSIS IS BETTER THAN CURE

Dr. Anur R. Shah
 MBBS, MD, DNB
 Director

1001, Old, U.S. Market, B-1, Sector-10, Gurgaon, Haryana
 Near Metro, New Colony, Gurgaon, Haryana - 122002
 Phone: (01294) 23271
 Email: mahavir@mahavir.com

• Medical Advisor & Internal Health Consultant
 • Pre-Employment/Periodic Medical Examination
 • Pre-Placement Medical Examination
 • Health & Safety Officer
 • Occupational Health & Safety Officer
 • Occupational Toxicological Laboratory
 • First Aid Training, ST, Janta Ambulance Association
 • Sterilization, Dry
 • Tissue Bank
 • Autoclave for medical instruments & supplies

CHEMINOVA INDIA LIMITED GIDC PANOLI (FMC SUBSIDIARY)

PERIODIC MEDICAL EXAMINATION
 NAME: Nilesh Mishra EMP CODE: 1003130 DATE: 22/01/2024
 AGE: 28 Years WEIGHT: 80 Kg HEIGHT: 180 cm PULSE: 88/min BP: 130/79 mmHg
 VISION: RIGHT LEFT DEPT: DETEC
 NEAR: N 8 N 6
 FAR: 6/6 6/6

COLOR VISION: ACCEPTABLE

BLOOD EXAMINATION		
PARAMETERS	FINDINGS	UNITS
HAEMOGLOBIN	13.3	g/dl
WBC COUNT	9200	/mm ³
NEUTROPHILS	75	%
LYMPHOCYTES	22	%
EOSINOPHILS	1	%
MONOCYTES	2	%
MCH	20.1	pg
MCHC	28.2	g/dl
PCV	48.3	%

BLOOD EXAMINATION		
PARAMETERS	FINDINGS	UNITS
BL. SUGAR (F)	94	mg/dl
S. CHOLESTEROL	169	mg/dl
S. G.P.T.	38	u/l
S. CREATININE	1.0	mg/dl
RBC COUNT	4.68	lacs/mm ³
PLATELETS	218000	/mm ³
BCA %	87.5	%
RBC CHOLINESTERASE	188	u/ml

PHYSICAL:
 QUANTITY: 10 ml
 COLOR: PALE YELLOW
 APPEARANCE: CLEAR
 DEPOSIT: ABSENT

CHEMICAL:
 ALBUMIN: ABSENT
 SUGAR: ABSENT
 BILE SALTS: ABSENT
 BILE PIG: ABSENT
 ACETONE: ABSENT

MICROSCOPIC:
 WBC: ABSENT
 RBC: ABSENT
 CRYSTALS: ABSENT
 EPITHELIAL: ABSENT
 CAST: ABSENT

LUNG FUNCTION TEST

PARAMETER	RESULT	PREDICTED	% OF PREDICTED
FVC	2.89	3.20	111
FEV1	3.05	3.24	106
PEF	5.92	5.47	108
FEF 25-75%	3.01	3.10	103

AUDIOMETRY TEST

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

E.G.G. - WITHIN NORMAL LIMIT
 REMARKS: NOT SUFFERING FROM ANY INFECTIOUS OR OBSCUROUS DISEASE

Dr. Anur R. Shah
 MBBS, MD, DNB
 Director

MAHAVIR
DIAGNOSTIC CENTRE
 EARLY DIAGNOSIS IS BETTER THAN CURE

Dr. Anur R. Shah
 MBBS, MD, DNB
 Director

1001, Old, U.S. Market, B-1, Sector-10, Gurgaon, Haryana
 Near Metro, New Colony, Gurgaon, Haryana - 122002
 Phone: (01294) 23271
 Email: mahavir@mahavir.com

• Medical Advisor & Internal Health Consultant
 • Pre-Employment/Periodic Medical Examination
 • Pre-Placement Medical Examination
 • Health & Safety Officer
 • Occupational Health & Safety Officer
 • Occupational Toxicological Laboratory
 • First Aid Training, ST, Janta Ambulance Association
 • Sterilization, Dry
 • Tissue Bank
 • Autoclave for medical instruments & supplies

CHEMINOVA INDIA LIMITED GIDC PANOLI (FMC SUBSIDIARY)

PERIODIC MEDICAL EXAMINATION
 NAME: Parosh Manabhai Patel EMP CODE: 147357 DATE: 24/07/2024
 AGE: 49 Years WEIGHT: 79 Kg HEIGHT: 168 cm PULSE: 72/min BP: 140/114 mmHg
 VISION: RIGHT LEFT DEPT: DETEC
 NEAR: N 8 N 6
 FAR: 6/6 6/6

COLOR VISION: ACCEPTABLE

BLOOD EXAMINATION		
PARAMETERS	FINDINGS	UNITS
HAEMOGLOBIN	13.4	g/dl
WBC COUNT	9100	/mm ³
NEUTROPHILS	66	%
LYMPHOCYTES	31	%
EOSINOPHILS	1	%
MONOCYTES	2	%
MCH	21.4	pg
MCHC	28.8	g/dl
PCV	37.0	%

BLOOD EXAMINATION		
PARAMETERS	FINDINGS	UNITS
BL. SUGAR (F)	90	mg/dl
S. CHOLESTEROL	162	mg/dl
S. G.P.T.	30	u/l
S. CREATININE	1.0	mg/dl
RBC COUNT	4.89	lacs/mm ³
PLATELETS	57000	/mm ³
BCA %	100	%
RBC CHOLINESTERASE	682	u/ml

PHYSICAL:
 QUANTITY: 10 ml
 COLOR: PALE YELLOW
 APPEARANCE: CLEAR
 DEPOSIT: ABSENT

CHEMICAL:
 ALBUMIN: ABSENT
 SUGAR: ABSENT
 BILE SALTS: ABSENT
 BILE PIG: ABSENT
 ACETONE: ABSENT

MICROSCOPIC:
 WBC: ABSENT
 RBC: ABSENT
 CRYSTALS: ABSENT
 EPITHELIAL: ABSENT
 CAST: ABSENT

LUNG FUNCTION TEST

PARAMETER	RESULT	PREDICTED	% OF PREDICTED
FVC	2.05	2.14	104
FEV1	2.20	2.08	120
PEF	5.52	5.51	102
FEF 25-75%	2.13	2.39	112

AUDIOMETRY TEST

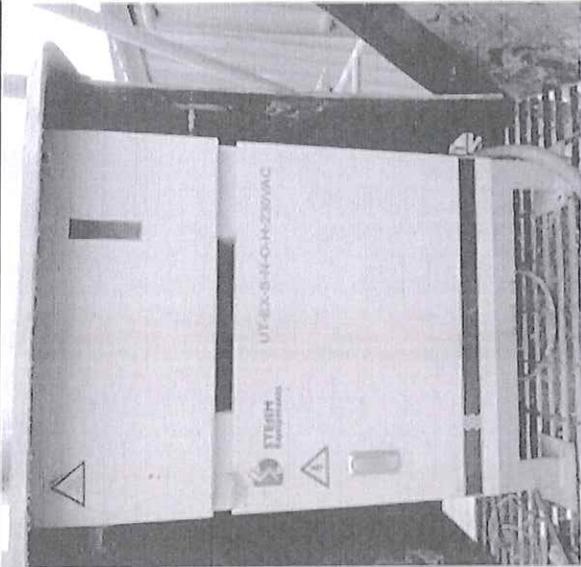
FREQ.	500	1K	2K	4K	8K
RIGHT	15	10	10	10	20
LEFT	20	25	20	20	10

E.G.G. - WITHIN NORMAL LIMIT
 REMARKS: NOT SUFFERING FROM ANY INFECTIOUS OR OBSCUROUS DISEASE

Dr. Anur R. Shah
 MBBS, MD, DNB
 Director



SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status
	<p>(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.</p>	<p>Online continuous Emission Monitoring Systems are provided for Briquette boiler which is linked with GPCB & CPCB servers.</p> <p>Regular monitoring of flue gas and process emission analysis is also done by Siddhi Green Excellence Pvt. Ltd., Ankleshwar.</p> <p>Since unit is Zero Liquid Discharge, the online continuous monitoring of effluent, web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises are provided.</p>
	<div style="display: flex; justify-content: space-around;">   </div> <p>(xxi) Mitigation measures suggested during process safety and risk assessment studies shall be undertaken accordingly.</p>	<p>Unit carry out detailed process safety and risk assessment study in the operational phase and mitigation measures of the same are implemented.</p>



SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status
	(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.	Ambient Air quality monitoring is done by Third party recognized laboratory and locations are decided in consultation with SPCB considering the upwind and downwind directions and maximum ground level concentrations are anticipated.
	(iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R.No. 826(E) Dated 16 th 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 th 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



SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status																		
(vi)	<p>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.</p>	<p>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.</p>																		
	<div style="display: flex; justify-content: space-around;"> <div data-bbox="576 1256 1019 2007"> <p style="text-align: center;">FLOW DIAGRAM OF WATER HARVESTING SYSTEM</p> </div> <div data-bbox="576 768 1019 1256"> </div> </div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">Details of Roof top rainwater harvesting.</th> </tr> <tr> <th style="width: 60%;">Month</th> <th style="width: 40%;">Rainwater (KL)</th> </tr> </thead> <tbody> <tr> <td>October 2023</td> <td style="text-align: center;">0</td> </tr> <tr> <td>November 2023</td> <td style="text-align: center;">53</td> </tr> <tr> <td>December 2023</td> <td style="text-align: center;">0</td> </tr> <tr> <td>January 2024</td> <td style="text-align: center;">0</td> </tr> <tr> <td>February 2024</td> <td style="text-align: center;">0</td> </tr> <tr> <td>March 2024</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Total</td> <td style="text-align: center;">53</td> </tr> </tbody> </table>	Details of Roof top rainwater harvesting.		Month	Rainwater (KL)	October 2023	0	November 2023	53	December 2023	0	January 2024	0	February 2024	0	March 2024	0	Total	53
Details of Roof top rainwater harvesting.																				
Month	Rainwater (KL)																			
October 2023	0																			
November 2023	53																			
December 2023	0																			
January 2024	0																			
February 2024	0																			
March 2024	0																			
Total	53																			
(vii)	<p>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.</p>	<p>Unit complies with the given condition. Pre-employment and routine periodical medical examinations for all employees are done on regular basis. Regular training is imparted to all employees with regard to handling of chemicals.</p>																		
(viii)	<p>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/EEMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.</p>	<p>Unit follow the given condition.</p>																		
(ix)	<p>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.</p>	<p>Unit undertake Corporate social activities for the betterment of surrounding villages.</p>																		



SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status
	<p>(x) The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.</p> <p>(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.</p> <p>(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.</p> <p>(xiii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of environmental clearance and six-monthly compliance status reports shall be posted on the website of the company.</p> <p>(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.</p> <p>(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.</p>	<p>Unit carry out CER activities as per the plan mentioned in the EIA report.</p> <p>Unit commits that funds earmarked for environment management/ pollution control measures shall not be diverted for any other purpose</p> <p>Unit has sent copy of the clearance letter to Panchayat, Zilla Parishad/ Municipal Corporation, Urban local Body and the local NGO.</p> <p>Six monthly compliance of Environmental Clearance conditions including results of monitored data are uploaded on PARIVESH portal and posted on the website of the company.</p> <p>Unit is complying with the given condition. Form-V is regularly submitted to SPCB for each financial year and attached as Annexure</p> <p>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>



SIX MONTHLY EC COMPLIANCE REPORT

(October 2023 to March 2024)

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

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: 01.10.2023 to 31.03.2024

No. Cheminova-Int/EC-Datasheet/01-2024		
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 st 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 Plot No. (27+28)/A, Notified GIDC Industrial Estate, Panoli, Dist. Bharuch 394 116, State-Gujarat, India. Tel. – 9714993368 / 02646618522
	b). Address of Executive Project Engineer / Manager (with Pin code / Fax Number)	: Mr. Anil N Shah Plot No. (27+28)/A, Notified GIDC Industrial Estate, Panoli, Dist. Bharuch 394 116, State-Gujarat, India. Tel. – 9714993368 / 02646618522
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

SIX MONTHLY EC COMPLIANCE REPORT

Process Emissions	HCl, NH ₃ , Cl ₂ , SO ₂ , NO _x , H ₂ S, CO, HC, PM, Acid Mist	
Flue Gas Emission	PM, SO ₂ , NO _x	
Fuel Type	Natural gas, HSD, Briquettes/ Bagasse/ Groundnut shell	
Fuel Requirement	Natural Gas- 10800 Nm ³ /h, HSD- 800.7 L/h, Briquettes/ Bagasse/Groundnut shell - 2970 kg/h	
Man power	Total: 600 (Company + Contract) employees	
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">)] To monitor the ambient air quality parameters and flue gas emissions within premises and also in the nearby area regularly and to compare with the regulating standards so that any necessary corrective actions can be taken.)] Work place monitoring to be carried out periodically to check fugitive emissions, if any.)] To develop and maintain greenbelt, in and around the factory, for reducing the effect of air pollutants due to their deposition.)] To follow proper loading and unloading practices to minimize dusting)] To maintain proper record for the fuel consumption, start-up time and duration of boiler operation towards energy conservation 	<ul style="list-style-type: none">)] Company maintains its own records and monitors the ambient air and flue gas emission within premises periodically. Monitoring of ambient air & flue gas analysis is done by Siddhi Green Excellence Pvt Ltd., Ankleshwar.)] Workplace monitoring is carried out inhouse and also periodically by Siddhi Green Excellence Pvt Ltd., Ankleshwar.)] Unit has developed & maintained greenbelt area inside and outside the factory.)] Unit is having closed system for loading and unloading of chemicals.)] Unit is maintaining records for the fuel consumption and duration of boiler operation towards energy conservation
3	For Water Environment Management <ul style="list-style-type: none">)] To investigate possibilities of water reuse and recycling for reducing water consumption and wastewater generation)] Records of water consumption, effluent generation, effluent discharge, water characteristics, treated and untreated effluent characteristics to be maintained.)] To monitor the adequacy and efficiency of ETP so that the effluent is given suitable treatment and the treated effluent meets specified norms of available CC&A of GPCB.)] The effluent collection and discharge drainages, effluent handling and treatment systems to be maintained and regularly monitored to prevent leakages or sudden break-down.)] Proper house-keeping to be adopted to prevent spillages and contaminated surface runoff going to storm water drains. 	<ul style="list-style-type: none">)] Reuse and recycling of water is done. Roof Top rainwater harvesting facility is provided and water is collected and reused.)] Unit is maintaining records of water consumption, effluent generation, water characteristics, treated and untreated effluent characteristics.)] The adequacy and efficiency of ETP is maintained well and the effluent is treated appropriately at all the stages. The Treated effluent is further processed in R.O. Plant and MEE & ATFD Plant. The R.O. Permeate is reused within premises.)] The effluent collection, handling and treatment systems are maintained and regularly monitored to prevent leakages or sudden break-down. The preventive maintenance of all ETP units is taken periodically.)] Good housekeeping is maintained to prevent spillages and contaminated surface runoff going to storm water drains.

SIX MONTHLY EC COMPLIANCE REPORT

4	<p>For Hazardous / Non-hazardous waste management</p> <ul style="list-style-type: none"> ✓ Proper storage and handling arrangements in compliance to the conditions of authorization granted by SPCB. ✓ Proper signboards to be provided at relevant places. ✓ All the necessary regulatory procedures as per the amended Hazardous Waste Management & Handling Rules – 2003 to be followed and adhered with. ✓ The transportation of hazardous waste to the TSDF Site to be as per the guidelines and accompanied with Form-9. ✓ Monthly records of generation, storage and disposal of hazardous waste should be maintained in a record register as per the format of Form-3 as per amended Hazardous Waste rules – 2003 and annual returns of disposal to be submitted to SPCB in prescribed form – 4 and form – 13. 	<ul style="list-style-type: none"> ✓ Unit has a dedicated storage areas for storage of all types of wastes. All the conditions stipulated in Authorization is complied. ✓ Signboards are provided at relevant places. ✓ Unit is following all the applicable regulatory procedures as per the amended Hazardous Waste Management & Handling Rules – 2016. ✓ Unit is following guideline for transportation of hazardous waste to TSDF & CHWIF of M/s. BEIL. / Safe Enviro / SEPPIL etc. Transporter is provided Form -9 with each consignment. ✓ 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. 																				
7	Production details during compliance period and (or) during the previous financial year	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="2">Production Details</th> </tr> <tr> <th>Month</th> <th>Quantity (MTM)</th> </tr> </thead> <tbody> <tr> <td>October 2023</td> <td>420.000</td> </tr> <tr> <td>November 2023</td> <td>470.000</td> </tr> <tr> <td>December 2023</td> <td>460.000</td> </tr> <tr> <td>January 2024</td> <td>428.930</td> </tr> <tr> <td>February 2024</td> <td>240.450</td> </tr> <tr> <td>March 2024</td> <td>220.270</td> </tr> </tbody> </table>	Production Details		Month	Quantity (MTM)	October 2023	420.000	November 2023	470.000	December 2023	460.000	January 2024	428.930	February 2024	240.450	March 2024	220.270				
Production Details																						
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8	Break Up of the Project Area	Unit is located in G.I.D.C Panoli. (Notified area)																				
	a]. Submergence area: forest & non-forest																					
	b]. Others																					
9	Breakup of the project affected population with enumeration of those losing houses / dwelling units, only agricultural land, dwelling units & agricultural land & landless laborers / artisan.	Unit is located in G.I.D.C Panoli. (Notified area)																				
	a]. SC , ST / Adivasis	: ---																				
	b]. Others	: ---																				
	(Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey is carried out give details and years of survey)	: ---																				
10	Financial Details																					
	a]. Project cost as originally planned and subsequent revised estimates and the year of price reference	: Rs. 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 border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <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> </thead> <tbody> <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 & Management</td> <td>153</td> <td>90</td> </tr> </tbody> </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	
Sr.No.	Particulars	Recurring Cost Per Annum [Rs. In lakh]	Capital Cost (Rs. In lakh)																			
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2	Water Pollution Control	1366	1200																			
3	Noise Pollution Control	5	3																			
4	Environment Monitoring & Management	153	90																			

SIX MONTHLY EC COMPLIANCE REPORT

	5	Occupational Health & Safety	50	12
	6	Green Belt development & maintenance	20	5.0
	7	Solid waste management	228	8290
	TOTAL Planned		2505	10200
	c]. Benefit cost ratio / Internal rate of return and the year of assessment		: Not applicable	
	d]. Whether (c) includes the cost of environmental management as shown in the above		: Yes	
	e]. Actual expenditure incurred on the project so far		: 742.56 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		: 08-10-2023 (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.)		: --	

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																																																																										
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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 Cyhaothrin(I), Cypermethrin (I),Bifenazate(I), Phthalide (Int) etc.	300	--	300	
13.	Ether group based products [Propargite(I), oxyfluorfen(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), Ethepon (PGR)] etc.	5000	--	5000	
16.	Pyridine group based product [Pyridalyl(I),Imazethapyr(H)CloquintocctMexyl(H), Acetamiprid (I), 4, 6-DiChloro Pyridine (Int)], Azoxvstrobin(F)etc	250	--	250	
17.	Urea group based product [Buprofezin(I), Lufenuron (I), Linuron (H),Diafenthuron(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- Fluoro-3 trilluromethylphenole (Int)] etc.	75	---	75	
19.	Sulfentrazone	---	2000	2000	
20.	F-9600 (2-(2,4-Dichlorobenzyl)-4,4-Dimethylizoxazolidin-3one)/Bixlozone	---	4200	4200	
21.	F 9990 (Fluindapyr)	---	1200	1200	
22.	Malathion	---	10000	10000	
23.	F-4050 (2-(4-Fluoro-3-(Trifluoromethyl)Phenoxy)-N-Benzylbutanamide	---	1500	1500	
24.	Beflubutamide	---	450	450	
25.	Gamma Cyhalothrin	---	300	300	
26.	Bifenthrin	---	300	300	
27.	Clomazone	---	2000	2000	
28.	FMC-57091 (4,4-Dimethyl Isoxazolidin-3-One)/(Isoxazolidinone)	---	2600	2600	
29.	Thifensulfuron Methyl	---	205	205	
30.	Tribenuron Methyl	---	215	215	
31.	Metsulfuron Methyl	---	200	200	
32.	Ethametsulfuron Methyl	---	10	10	

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Sr. No.	Conditions				Compliance Status														
	33. Chlorsulfuron	---	60	60															
	34. Triflurosulfuron Methyl	---	50	50															
	35. Azimsulfuron	--	4	4															
	36. Flupyrsulfuron Methyl Sodium	---	12	12															
	Total	19705	27976	47681															
4.	Existing land area is 149163.17 sqm. No additional land will be required for the proposed expansion. Industry has developed greenbelt in an area of 49497 sqm covering 33.18% of total project area. The estimated project cost is Rs. 790.36 crores. Total capital cost earmarked towards environmental pollution control measures is Rs 25.05 crores and the recurring cost (O&M) will be about Rs 102 crores per annum. The project will provide employment for 178 persons directly and 422 persons indirectly after expansion.				Noted. 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) and total green belt area is 40%.														
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.				Total GIDC water consumption data as per existing CTO is as below:														
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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.				<p>All the Industrial wastewater is treated through Effluent Treatment Plant, MEE and R.O. plant and recycled to process. There is no discharge of treated /untreated wastewater outside the unit. Zero Liquid Discharge is ensured.</p> <p>Total wastewater generation/ treatment in RO MEE Plant and maintain ZLD is as below:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Month</th> <th style="width: 50%;">Quantity (KL/Month)</th> </tr> </thead> <tbody> <tr> <td>October 2023</td> <td style="text-align: center;">4608</td> </tr> <tr> <td>November 2023</td> <td style="text-align: center;">4218</td> </tr> <tr> <td>December 2023</td> <td style="text-align: center;">4437</td> </tr> </tbody> </table>	Month	Quantity (KL/Month)	October 2023	4608	November 2023	4218	December 2023	4437						
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		January 2024	3571														
		February 2024	2582														
		March 2024	2950														
	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 & 1500 KVA will be required under proposed 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. The details of total Power consumption met by M/s Dakshin Gujarat Vij Company Limited (DGVCL) as below</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Month</th> <th style="width: 70%;">Power Consumption (Kwh)</th> </tr> </thead> <tbody> <tr> <td>October 2023</td> <td>863430</td> </tr> <tr> <td>November 2023</td> <td>855360</td> </tr> <tr> <td>December 2023</td> <td>926730</td> </tr> <tr> <td>January 2024</td> <td>798990</td> </tr> <tr> <td>February 2024</td> <td>571170</td> </tr> <tr> <td>March 2024</td> <td>641760</td> </tr> </tbody> </table>		Month	Power Consumption (Kwh)	October 2023	863430	November 2023	855360	December 2023	926730	January 2024	798990	February 2024	571170	March 2024	641760
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Sr. No.	Conditions	Compliance Status
	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.	Noted and complied.
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 rd March, 2018. Public hearing is exempted in accordance with the Ministry's OM dated 27 th 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 th 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.
10.	The proposal was further examined in the Ministry in accordance with the Ministry's Office Memorandum dated 31 st October 2019 and Ministry's communication dated 24 th 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 th October, 2019 and forwarded by Central Pollution Control Board vide letter dated 25 th October, 2019 to the SPCB's while issuing the CTE/CTO for the project, for improvement of environmental quality in the area.	Consent to Establish has been granted by GPCB, Outward No. 15866 on dated 4 th June 2020. CTO Amendment granted by GPCB on 1 st January 2024 having AWH – 129487 with a validity up to 4 th -Mcrh I-2027.
	(ii) Zero Liquid Discharge shall be ensured including existing facility and the proposed expansion facility and no waste/treated water shall be discharged outside the premises.	Unit has obtained CC&A Amendment and Zero Liquid Discharge is ensured and no waste/treated water is 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.	Unit has obtained all necessary authorization under the Hazardous and Other Wastes (Management and Trans-

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Sr. No.	Conditions	Compliance Status														
		Boundary Movement) rules, 2016, from the GPCB Solid Waste Management Rules, 2016 are not applicable.														
	(iv) National Emission Standards for Pesticides Manufacturing Industry issued by the Ministry vide G.S.R.446(E) dated 13 th June, 2011, as amended from time to time, shall be followed.	Noted. National Emission Standards are complied.														
	(v) No pesticides/chemicals banned by the Ministry of agriculture and Farmers welfare, or having LD ₅₀ <100 mg/kg shall be produced. Also, no raw material/solvent prohibited by the concerned regulatory authorities from time to time, shall be used for production of pesticides.	Unit commits that No pesticides/chemicals banned by the Ministry of agriculture and Farmers welfare, or having LD ₅₀ <100 mg/kg shall be produced and no prohibited raw material/solvent shall be used for production.														
	(vi) To control source and the fugitive emissions (at 99.98%), suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	All the pollution control devices are provided as stated in consent issued by State Pollution Control Board to comply with the gas emissions standard. The gaseous emissions are dispersed through stack of adequate height as prescribed in consent														
	(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 of effective Solvent management Plan are implemented.														
	(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.	Complied. Fresh water consumption data is as below: <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Month</th> <th style="text-align: center;">Quantity KL/Month</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Oct-23</td> <td style="text-align: center;">8602</td> </tr> <tr> <td style="text-align: center;">Nov-23</td> <td style="text-align: center;">7896</td> </tr> <tr> <td style="text-align: center;">Dec-23</td> <td style="text-align: center;">7954</td> </tr> <tr> <td style="text-align: center;">Jan-24</td> <td style="text-align: center;">6678</td> </tr> <tr> <td style="text-align: center;">Feb-24</td> <td style="text-align: center;">4427</td> </tr> <tr> <td style="text-align: center;">Mar-24</td> <td style="text-align: center;">5195</td> </tr> </tbody> </table>	Month	Quantity KL/Month	Oct-23	8602	Nov-23	7896	Dec-23	7954	Jan-24	6678	Feb-24	4427	Mar-24	5195
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Dec-23	7954															
Jan-24	6678															
Feb-24	4427															
Mar-24	5195															

SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status									
	(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 provided in such a way that process effluent / any wastewater is not getting mixed.									
	(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.	All the Hazardous chemicals are stored in tanks, tank farms, drums, carboys etc. Flame arresters are provided at all the tanks. Solvent transfer is done through pumps in closed loop system.									
	(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 October 2023 to March 2024 is as below: <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Hazardous Waste Name</th> <th style="text-align: center;">Disposal Quantity (MT)</th> <th style="text-align: center;">Disposal mode</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Process waste and res residue</td> <td style="text-align: center;">748.045</td> <td style="text-align: center;">Co-Processing</td> </tr> <tr> <td style="text-align: center;">ETP sludge</td> <td style="text-align: center;">1084.415</td> <td style="text-align: center;">TSDF site</td> </tr> </tbody> </table>	Hazardous Waste Name	Disposal Quantity (MT)	Disposal mode	Process waste and res residue	748.045	Co-Processing	ETP sludge	1084.415	TSDF site
Hazardous Waste Name	Disposal Quantity (MT)	Disposal mode									
Process waste and res residue	748.045	Co-Processing									
ETP sludge	1084.415	TSDF site									
	(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 stores all the hazardous chemicals based on the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. Also all safety measures are taken for transportation of Hazardous chemicals and guidelines of the Motor Vehicle Act, 1989 are complied.									
	(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 follows all the waste minimization measures.									
	(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%.									

SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions			Compliance Status
				
	Greenbelt along Boiler side	Near MPHP Plant	Behind ETP Plant	Greenbelt Development
	<p>(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.</p>			<p>Unit follows the given condition. Fund allocation for CER/CSR jobs for both Technical & Intermediate are as follow:) Providing skill training and support for women empowerment to Kharod village = 6.50 lakh =completed in June2022) Providing skill training and support for women empowerment to Sanjali village = 6.50 lakh =completed in June2022) Providing streetlight and solar roof top to Umarwada village as sustainable solution = 25 lakh = Completed in May2022) Sponsorship of Cricket tournament trophy to kharod village to encourage sports activities in younggeneration= 1.15 lakh = completed in June22 Total Fund Allocation In CER= 39.15 Lakh</p>

SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status
	(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:
Details of the in-House training programs as per EHS Standard are as follow.		
Sr. No.	Standard	Program Name
1	Hot Work Standard	EHS Panoli_HotWork Standard
2	Confined Space Entry Standard	EHS Panoli Confined Space Entry Standard
3	Electrical Safety Standard	EHS Panoli Electrical Safety Standard
4	Energy Isolation, Lockout/Tagout Standard	EHS Panoli Energy Isolation, Lockout/Tagout Standard
5	Elevated Work Standard	EHS Panoli Elevated Work Standard
6	Line Breaking & Equipment Opening Standard	EHS Panoli Line Breaking & Equipment Opening Standard
7	Hazard Assessment & Mitigation Standard	EHS Panoli Hazard Assessment & Mitigation Standard
8	Hose Management Standard	EHS Panoli Hose Management Standard
9	Decommissioning	EHS Panoli Decommissioning
10	MSDS Standard	EHSPanoli MSDS Standard
11	Glassware Handling Standard	EHSPanoli Glassware Handling Standard
12	Chemical Storage Standard	EHSPanoli Chemical Storage Standard
13	Fume Hood Standard	EHSPanoli Fume Hood Standard
14	Open Blade Standard	EHSPanoli Open Blade Standard
15	Personal Protective Equipment & Glove Use program	EHSPanoli Personal Protective Equipment & Glove Use program
16	Contract safety Standard	EHSPanoli Contract safety Standard
17	Breathing Air Standard	EHSPanoli Breathing Air Standard
18	Event Reporting standard	EHSPanoli Event Reporting standard
19	Effective Injury And Illness Case Management	EHSPanoli Effective Injury And Illness Case Management
20	Ground Transportation Safety Standard	EHSPanoli Ground Transportation Safety Standard
21	PSM Standard	EHSPanoli PSM Standard
22	Emergency response plan	EHSPanoli Emergency response plan

SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status
	<p>Photographs of trainings:</p> <div style="display: flex; justify-content: space-around;">    </div>	
	<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: Emissions are within specified limits. Acoustic enclosure is provided to DG set for controlling the noise pollution.</p>

SIX MONTHLY EC COMPLIANCE REPORT



TEST REPORT
 REPORT NO.: SC/LAB/ST/MAR/2024/01 Date of Issue: 21-03-2024
 Issued to: M/s. CHEMINOVA INDIA LTD. (INTERMEDIATE DIV.)
 Address: PLOT NO.27,23/A GIDC ESTATE,PANOLI, TA: ANKLESHWAR,DIST: BHARUCH-394116

SR.NO.	DESCRIPTION	FLUE GAS STACK EMISSION ANALYSIS
1	Particulars of Sample	Stack No.1
2	PCB ID of Stack	60999
3	Sample ID	323604-S-01
4	Name of Stack	BOLLER
5	Details of Air Pollution Control Measure (APCM)	Dust Collector- Bag Filter
6	Date & Time of sampling	16-03-2024 & 10:40 h
7	Date of Receipt	16-03-2024
8	Date of Analysis start	16-03-2024
9	Date of Completion	17-03-2024

Sampling Plan & Sampling Method Used: Lab Document SCLAB/01

SR.NO.	Details of Stack Monitoring Kit			
1	Make	Universal Instruments	Instrument ID	SC-STN-04
2	Model	CO222	Calibration valid upto	01-03-2025
3	Serial No.	02-DTK-2018		

Details of Stack		
1	Stack Height	40 m
2	Stack Diameter	660 mm
3	Temperature of Flue gas	144°C
4	Velocity of Flue gas	8.4 m/s

Details of Flue Gas		
1	Type of Fuel	Briquette
2	Rate of Consumption	40 T/D

PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE 2)	RESULTS
1	PM @ 12% CO ₂	IS 11255 (Part 1):1985	120	71
2	SO ₂	IS 11255 (Part 2):1985	80	15
3	NO _x	IS 11255 (Part 7):2005	40	23

Additions to, deviations or, exclusions from the method: -None
 Results from external providers, if any: -None
 Any other remarks: -None
 Abbreviations used: -None
 Reviewed by: *[Signature]*
 Authorized Signature: *[Signature]*
 Mrs. K. P. Shah/Mrs. N. Shah

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

*** End of Report ***

Formal No.: SCLAB/Report-03 Issue No.: 02 Issue Date: 21-03-2024 Revision No.: 04 Revision Date: 01-03-2024
 www.siddhigreen.com

SUJATHA'S
 CERTIFIED
 NEW SPHERE
 BY NABL

Head Office:
 "Karnal Arcade - The Vertical Syndicate" Comm. Plot No. C-33,
 GIDC Station Road, Ankleshwar - 391 002, Dist. Bharuch,
 Gujarat State, India. Tel: 02646-224805, 223805
 E-mail: sgh@sgp@gmail.com

Daha, OH:
 "SANSKARAVENUE SHOP NO. 07 37,
 P.O. JOLVA, TA. VADRA, DIST. BHARUCH
 TEL: 02641-254041



TEST REPORT
 REPORT NO.: SC/OIL/DST/JAN/2024/03 Date of Issue: 20-01-2024
 Issued to: M/s. CHEMINOVA INDIA LTD. (INTERMEDIATE DIV.)
 Address: PLOT NO.27,28/A GIDC ESTATE,PANOLI, TA: ANKLESHWAR,DIST: BHARUCH-394116

SR.NO.	DESCRIPTION	FLUE GAS STACK EMISSION ANALYSIS
1	Particulars of Sample	Stack No.2
2	PCB ID of Stack	8826
3	Sample ID	31305-FS-02
4	Name of Stack	D.G.SET (1250 KVA)
5	Source	D.G.SET (1250 KVA)
6	Date & Time of sampling	12-01-2024 & 13:55 h
7	Date of Receipt	12-01-2024
8	Date of Analysis start	13-01-2024
9	Date of Completion	15-01-2024

Sampling Plan & Sampling Method Used: Lab Document ODLAB/01

Details of Stack		
1	Stack Height	8 m
2	Stack Diameter	400 mm
3	Temperature of Flue gas	120°C
4	Velocity of Flue gas	9.2 m/s

Details of Fuel Gas		
1	Type of Fuel	HSD
2	Rate of Consumption	60 L/h

PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE 2)	RESULTS
1	PM @ 12% CO ₂	IS 11255 (Part 1):1985	120	85
2	SO ₂	IS 11255 (Part 2):1985	80	23
3	NO _x	IS 11255 (Part 7):2005	40	30
4	CO	SCLAB/STP/STK-05	-	21

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: *[Signature]*
 Authorized Signature: *[Signature]*
 Mrs. K. P. Shah/Mrs. N. Shah

- Notes: 1. Test results shall be referred to the tested sample(s) only and applicable parameter(s) only.
 2. Permissible limits if mentioned in report are given by customer and included in the report upon request by customer.
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Formal No.: SCLAB/Report-03 Issue No.: 02 Issue Date: 21-03-2024 Revision No.: 04 Revision Date: 01-03-2024
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 P.O. JOLVA, TA. VADRA, DIST. BHARUCH
 TEL: 02641-254041

SIX MONTHLY EC COMPLIANCE REPORT

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

SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status
	(xix) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Pre-employment and regular medical checkup of company employees as well as contract employees is done by Factory Medical Officer and records are maintained. Photograph of medical checkup report is attached below:

MAHAVIR
DIAGNOSTIC CENTRE
EARLY DIAGNOSIS IS BETTER THAN CURE

Dr. Anil S. Shah
MBBS, MD

- Govt. of India & Industrial Health Consultant
- Pre-Employment/Periodical Medical Examination
- Post-Employment Medical Examination
- Casualty Health Check-up
- Government Audiology, Speech, & STI
- Government Physiological Laboratory
- First Aid Training, ST. John Ambulance Association
- Sonography, X-ray
- Tint. Lens
- Authorised for medical examination of students

CHEMINOVA INDIA LIMITED GIDC PANOLI (FMC SUBSIDIARY)
PERIODIC MEDICAL EXAMINATION

NAME: Nilesh Mishra EMP CODE: 10012345 DATE: 22/01/2024
AGE: 25 Years WEIGHT: 60 Kg HEIGHT: 160 cm PULSE: 80/min BP: 120 / 70 mmHg

VISION: RIGHT LEFT DEPT: DCT/0
NEAR: N N N N N N N N N N
FAR: R R R R R R R R R R

COLOR VISION: ACCEPTABLE

PARAMETERS	FINDINGS	UNITS	NORMAL VALUES	PARAMETERS	FINDINGS	UNITS	NORMAL VALUES
HAEMOGLOBIN	12.2	g/dl	[12-17 F-11-16]	B.SUGAR (F)	81	mg/dl	[80-100]
WBC COUNT	8600	/mm ³	[4000-11000]	S. CHOLESTEROL	189	mg/dl	[100-200]
NEUTROPHILS	75	%	[40-75]	S.G.P.T.	70	U/L	[1-28]
LYMPHOCYTES	22	%	[20-40]	% CREATININE	1.0	mg/dl	[0.7-1.6]
EOSINOPHILS	1	%	[01-08]	Hb: (M)	4.6	g/dl (mm)	[4.5-5.5] (M)
MONOCYTES	2	%	[02-07]	PLATELETS	250000	/mm ³	[1.5-4.5] (LAK)
MCH	29.1	fL	[27-32]	SCA%	0.5	%	[> 12%]
MCHC	29.2	%	[20-36]	RBCCHLORESTERAGE	88	u/mole	[78-98]
MCV	40.3	fL	[84-104]	BLOOD GROUP:	B	RH	POSITIVE

PHYSICAL:		CHEMICAL:		MICROSCOPIC:	
QUANTITY:	10-15	W/HEMATO:	ABSENT	RBC:	ABSENT
COLOR:	PALE YELLOW	SUGAR:	ABSENT	PLC CELL:	ABSENT
APPEARANCE:	CLUMPY	BILE SALT:	ABSENT	CRYSTAL:	ABSENT
ODOR:	ABSENT	BILE PIG:	ABSENT	EPY CELL:	ABSENT
		ACETONE:	ABSENT	LEUC:	ABSENT

LUNG FUNCTION TEST			
FVC	2.89	PREDICTED	3.20
FEV1	3.05	PREDICTED	3.24
PEF	5.90	PREDICTED	10.9
FEF 25-75%	3.01	PREDICTED	3.0

AUDIOMETRY TEST					
FREQ.	500	1K	2K	4K	8K
RIGHT	20	10	20	20	15
LEFT	20	20	20	15	20

REMARKS: WITHIN NORMAL LIMIT
NOT SUFFERING FROM ANY INFECTIOUS OR OBSCURE DISEASE

Dr. Anil S. Shah
MBBS, MD

MAHAVIR
DIAGNOSTIC CENTRE
EARLY DIAGNOSIS IS BETTER THAN CURE

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- Government Physiological Laboratory
- First Aid Training, ST. John Ambulance Association
- Sonography, X-ray
- Tint. Lens
- Authorised for medical examination of students

CHEMINOVA INDIA LIMITED GIDC PANOLI (FMC SUBSIDIARY)
PERIODIC MEDICAL EXAMINATION

NAME: Pooja Manubhai Patel EMP CODE: 47667 DATE: 24/01/2024
AGE: 45 Years WEIGHT: 78 Kg HEIGHT: 165 cm PULSE: 72/min BP: 140 / 85 mmHg

VISION: RIGHT LEFT DEPT: Physical
NEAR: N N N N N N N N N N
FAR: R R R R R R R R R R

COLOR VISION: ACCEPTABLE

PARAMETERS	FINDINGS	UNITS	NORMAL VALUES	PARAMETERS	FINDINGS	UNITS	NORMAL VALUES
HAEMOGLOBIN	12.1	g/dl	[12-17 F-11-16]	B.SUGAR (F)	81	mg/dl	[80-100]
WBC COUNT	8600	/mm ³	[4000-11000]	S. CHOLESTEROL	182	mg/dl	[100-200]
NEUTROPHILS	66	%	[40-75]	S.G.P.T.	30	U/L	[1-28]
LYMPHOCYTES	32	%	[20-40]	% CREATININE	1.0	mg/dl	[0.7-1.6]
EOSINOPHILS	1	%	[01-08]	RBC Count	4.80	lacs/mm ³	[4.5-5.5] (M)
MONOCYTES	2	%	[02-07]	PLATELETS	167000	/mm ³	[1.5-4.5] (LAK)
MCH	37.4	fL	[27-32]	SCA%	100	%	[> 12%]
MCHC	38.0	%	[20-36]	RBCCHLORESTERAGE	82	u/mole	[78-98]
MCV	40.3	fL	[84-104]	BLOOD GROUP:	O	RH	POSITIVE

PHYSICAL:		CHEMICAL:		MICROSCOPIC:	
QUANTITY:	10-15	W/HEMATO:	ABSENT	RBC:	ABSENT
COLOR:	PALE YELLOW	SUGAR:	ABSENT	PLC CELL:	ABSENT
APPEARANCE:	CLUMPY	BILE SALT:	ABSENT	CRYSTAL:	ABSENT
ODOR:	ABSENT	BILE PIG:	ABSENT	EPY CELL:	ABSENT
		ACETONE:	ABSENT	LEUC:	ABSENT

LUNG FUNCTION TEST			
FVC	2.26	PREDICTED	2.19
FEV1	2.23	PREDICTED	2.68
PEF	5.52	PREDICTED	10.2
FEF 25-75%	2.13	PREDICTED	2.39

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

REMARKS: WITHIN NORMAL LIMIT
NOT SUFFERING FROM ANY INFECTIOUS OR OBSCURE DISEASE

Dr. Anil S. Shah
MBBS, MD

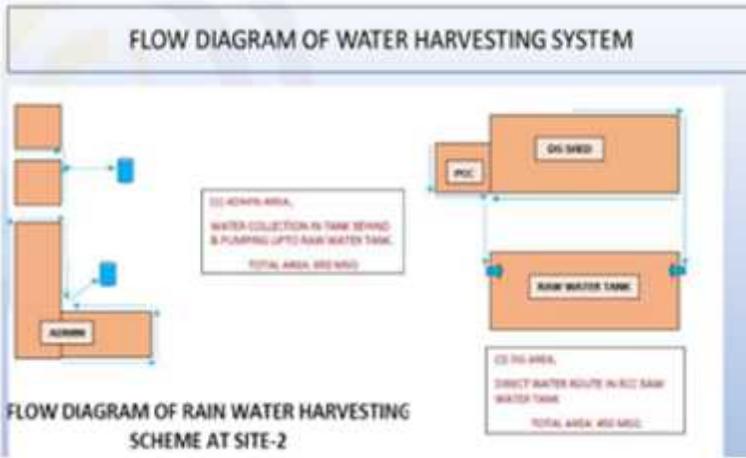
SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status
	<p>(xx) Continuous online (24×7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.</p>	<p>Online continuous Emission Monitoring Systems are provided for Briquette boiler which is linked with GPCB & CPCB servers.</p> <p>Regular monitoring of flue gas and process emission analysis is also done by Siddhi Green Excellence Pvt. Ltd., Ankleshwar.</p> <p>Since unit is Zero Liquid Discharge, the online continuous monitoring of effluent, web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises are provided.</p>
		
	<p>(xxi) Mitigation measures suggested during process safety and risk assessment studies shall be undertaken accordingly.</p>	<p>Unit carry out detailed process safety and risk assessment study in the operational phase and mitigation measures of the same are implemented.</p>

SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status
	(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.	Ambient Air quality monitoring is done by Third party recognized laboratory and locations are decided in consultation with SPCB considering the upwind and downwind directions and maximum ground level concentrations are anticipated.
	(iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R.No. 826(E) Dated 16 th 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 th 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

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.	<p>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.</p>																		
																				
		<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="2">Details of Roof top rainwater harvesting.</th> </tr> <tr> <th>Month</th> <th>Rainwater (KL)</th> </tr> </thead> <tbody> <tr> <td>October 2023</td> <td>0</td> </tr> <tr> <td>November 2023</td> <td>53</td> </tr> <tr> <td>December 2023</td> <td>0</td> </tr> <tr> <td>January 2024</td> <td>0</td> </tr> <tr> <td>February 2024</td> <td>0</td> </tr> <tr> <td>March 2024</td> <td>0</td> </tr> <tr> <td>Total</td> <td>53</td> </tr> </tbody> </table>	Details of Roof top rainwater harvesting.		Month	Rainwater (KL)	October 2023	0	November 2023	53	December 2023	0	January 2024	0	February 2024	0	March 2024	0	Total	53
Details of Roof top rainwater harvesting.																				
Month	Rainwater (KL)																			
October 2023	0																			
November 2023	53																			
December 2023	0																			
January 2024	0																			
February 2024	0																			
March 2024	0																			
Total	53																			
(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. Pre-employment and routine periodical medical examinations for all employees are done on regular basis. Regular training is imparted to all employees with regard to handling of chemicals.																		
(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 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 undertake Corporate social activities for the betterment of surrounding villages.																		

SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status
	(x) The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Unit carry out CER activities as per the plan mentioned in the EIA report.
	(xi) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the state Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	Unit commits that funds earmarked for environment management/ pollution control measures shall not be diverted for any other purpose
	(xii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	Unit has sent copy of the clearance letter to Panchayat, Zilla Parishad/ Municipal Corporation, Urban local Body and the local NGO.
	(xiii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of environmental clearance and six-monthly compliance status reports shall be posted on the website of the company.	Six monthly compliance of Environmental Clearance conditions including results of monitored data are uploaded on PARIVESH portal and posted on the website of the company.
	(xiv) The environmental statement for each financial year ending 31 st 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 and attached as Annexure
	(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.	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:

SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status
	 <p>PUBLIC NOTICE ENVIRONMENTAL CLEARANCE It is hereby informed that the Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, Jorbagh Road, New Delhi, has accorded Environmental Clearance for proposed expansion in existing premises for 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, Pandli-394 116, Ta: Ankleshwar, Dist.Bharuch, State: Gujarat, Vide letter dated 31/12/2019 [F.NO. IA-J-11011/53/2018-IA-II(I)] under the provision of EIA Notification dated 14th September 2006. Copies of Clearance Letter are available on Website of MoEF&CC (PARIVESH)- http://moef.nic.in Dated 09/01/2020 Authorized Signatory--SD-</p>	 <p>આ સારી જણાવવામાં આવે છે કે પ્રિનિસ્ટ્રી ઓફ એન્વાયરમેન્ટ, ફોરેસ્ટ અને ક્લાઇમેટ ચેન્જ ડ્રાસ મે. કેમિનોવા ઇન્ડિયા લિમિટેડ (ઇન્ટરમીડિયેટ ડિવિઝન) પ્લોટ નંબર (૨૭+૨૮)/A, નોટીફાઇડ ઇ.આઈ.ડી.સી. ઇન્ડસ્ટ્રીયલ એસ્ટેટ, પાન્ડોલી-૩૯૪ ૧૧૬, તાલુકા અંકલેશ્વર, ડિસ્ટ્રિક્ટ ભરૂચ, સ્ટેટ:ગુજરાત ખાતેના ક્ષેત્રના એકમ પર સૂચિત પેસ્ટીસાઇડ્સ તથા તેના પેસ્ટીસાઇડ સ્પેસિફિક ઇન્ટરમીડિયેટ્સ ના વિસ્તરણ માટેની પર્યાવરણીય મંજૂરી કિલેમ્બર, ૩૧, ૨૦૧૯ ના પત્ર દ્વારા [ફાઇલ નંબર IA-J-11011/53/2018-IA-II(I)] ઇ.આઈ.એ. નોટીફિકેશન તારીખ ૧૪ સપ્ટેમ્બર ૨૦૦૬ની ખેતવાઈ હેઠળ આપેલ છે. પર્યાવરણીય મંજૂરીના પત્રની નકલ MoEF&CC (PARIVESH) ની વેબસાઇટ (http://moef.nic.in) ઉપર ઉપલબ્ધ છે. તારીખ: ૦૮/૦૧/૨૦૨૦ સહી:--</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.
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.

Date – 5th 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 Category wise 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					



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

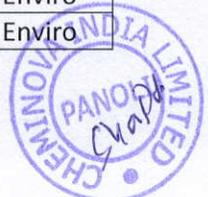
PART-A

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
	25-Apr-22	1704625	19.935	Safe Enviro
May-22	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
Mar-23	4-Mar-23	2026447	21.400	Safe Enviro
	6-Mar-23	2028324	22.715	Safe Enviro
	10-Mar-23	2030752	28.585	Safe Enviro
	19-Mar-23	2039340	25.940	Safe Enviro
TOTAL QUANTITY (In MT)			1551.450	

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	
Jun-22	4-Jun-22	1756941	2.665	BEIL	
Oct-22	21-Oct-22	1869493	2.095	BEIL	
Nov-22	3-Nov-22	1877508	1.130	BEIL	
	4-Nov-22	1879102	1.335	BEIL	
	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	
	21-Nov-22	1896032	1.050	BEIL	
	Dec-22	1-Dec-22	1906689	1.195	BEIL
	Jan-23	7-Jan-23	1942274	1.085	BEIL
19-Jan-23		1953147	1.790	BEIL	
Sub Total Quantity Sent For Landfilling (In MT)			30.71		



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
Sub Total Quantity Sent For Incineration (In MT)			14.265	

(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
TOTAL QUANTITY (In MT)			16.805	

(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
TOTAL QUANTITY (In MT)			15.190	



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		
28-Nov-22	1902665	8.290	Eco Waste management		
Dec-22	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
TOTAL QUANTITY (In MT)			1889.080	

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	
	31-Aug-22	1819214	18.730	Jay Organics	
Sep-22	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	
	Oct-22	3-Oct-22	1853512	25.605	Rang Chemicals
		4-Oct-22	1854359	19.535	Jay Organics
		7-Oct-22	1856380	22.040	Jay Organics
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	
Nov-22		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	
	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	
Dec-22	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	
	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	
Jan-23	4-Jan-23	1938749	26.595	Rang Chemicals	
	6-Jan-23	1941771	28.270	Jay Organics	

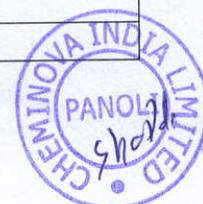


Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users	
Jan-23	17-Jan-23	1951285	24.660	Rang Chemicals	
	28-Jan-23	1962306	20.310	Rang Chemicals	
	28-Jan-23	1962532	24.050	Jay Organics	
Feb-23	2-Feb-23	1967374	25.790	Rang Chemicals	
	2-Feb-23	1967477	20.145	Jay Organics	
	8-Feb-23	1973135	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	
	Mar-23	3-Mar-23	2025964	25.000	Jay Organics
		4-Mar-23	2026573	25.965	Rang Chemicals
6-Mar-23		2028383	23.670	Rang Chemicals	
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
	29-Jun-22	1776529	20.240	Rahul Intermediates
Jul-22	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	
Dec-22	29-Nov-22	1904379	19.235	Rahul Intermediates	
	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	
Jan-23	29-Dec-22	1933836	23.340	Rahul Intermediates	
	31-Dec-22	1936075	19.770	Rahul Intermediates	
	3-Jan-23	1938415	19.600	Rahul Intermediates	



Month of disposal	Date of disposal	Manifest No.	Quantity, MT	End users	
Jan-23	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	
	Feb-23	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	
Mar-23		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		
TOTAL QUANTITY (In MT)			3125.755		



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
	2-Nov-22	18770786	10.950	Choksey Chemicals Industries
Nov-22	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
	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
Dec-22	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
	10-Jan-23	1945480	9.085	S R chemicals
	11-Jan-23	1946439	9.315	Choksey Chemicals
Jan-23	23-Jan-23	1957073	8.725	Choksey Chemicals
	29-Jan-23	1963044	9.575	Choksey Chemicals
	8-Feb-23	1973290	18.745	Choksey Chemicals
	17-Feb-23	1982214	19.365	Choksey Chemicals
Feb-23	21-Feb-23	1986103	9.975	S R chemicals
	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
TOTAL QUANTITY (In MT)			599.99	

ANNEXURE-J

4 Sodium Bisulphite Powder Cat: B-23

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: B-23

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 Sulphite Solution (20-30%) Cat: B-15

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
Mar-23	28-Feb-23	1993266	14.650	Bini Chemical
	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	
TOTAL QUANTITY (In MT)			498.42	

DATE: 5th June 2023

PLACE: Panoli

Signature of Factory manager / Occupier



Ref No. CIL/ INTER/Form -V/2022-23/09/05/23

ID: 15016

Date: 5Th September 2023

To

The Member Secretary

Gujarat Pollution Control Board,
Paryavaran Bhawan, Sector-10-A,
Gandhinagar-382010

SUB: - Submission of Environment Statement (FORM-V) for the Year 2022-23

Respected Sir,

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

Please acknowledge the same.

This is for your kind perusal please

Thanking you,

Yours faithfully,




Cheminova India Limited. Panoli.
Intermediate Division
Plot No. (27+28) /A,
G.I.D.C. Estate, Panoli.

RECEIVED
G. P. C. Board
R. O. Ankleshwar
Date 06.09.2023.

Enclosures: Form —V

CC To: Regional Officer, GPCB, Ankleshwar.

FORM - V
(See Rule 14)

From :

CHEMINOVA INDIA LTD.
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, 2023

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 - LSI
Primary :- (STC Code) Not Applicable
Secondary:- (SIC Code) Not Applicable
- iii) Production capacity:- Units - ANNEXURE-1
- 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 - M³/day 331 m3/day
- Process - 132 m3/day
- Cooling - 164 m3/day
- Domestic - 25 m3/day
- Gardening - 10 m3/day

Name of products	Process water consumption per product output (Lit./ Kg)	
	During the previous financial year 2021-2022 (1)	During the current financial year 2022-2023 (2)
(1) Diethyl Thio Phosphoryl Chloride	6.85	8.60
(2)Azole group based products (Florasulam)	55.00	65.00
(3)Bixlozone (F-9600)	7.36	8.90
(4) Fluindapyr (F9990)	0.00	25.40



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
		2021-2022		2022-2023
1	Phosphorous	DETPC	0.195	0.1975
2	Sulphur		0.498	0.5024
3	Ethanol		0.797	0.7900
4	Caustic lye		0.251	0.2578
5	Chlorine		0.488	0.4890
6	Soda Ash		0.070	0.0000
7	Homet P	Azole group based products (Florasulam)	0.763	0.0000
8	TEA		1.049	0.4942
9	POCl3		0.899	0.0000
10	Hydrazine Hydrate		0.431	0.0000
11	H2O2		0.412	0.4056
12	CS2		0.453	0.4409
13	Chlorine		0.989	0.9111
14	2,6 DFA		0.590	0.6133
15	Toluene		0.278	0.0000
16	Caustic lye - 100 %		0.868	1.2524
17	Methanol		0.710	0.5193
18	30% HCl		2.319	2.1956
19	MDC		0.863	1.1158
20	SBS		0.095	0.3398
21	,ACN		0.306	0.3378
22	IPA		0.207	0.2453
23	Sodium Methoxide-25%		2.521	2.3751
24	TBAHS		0.029	0.0283
25	Common salt		0.270	0.2222
26	Soda Ash		0.022	0.0222
27	Sodium Bi carbonate	1.258	0.0000	
28	K2CO3	0.354	0.3400	
44	Isoxazolidinone solution,	Bixlozone (F-9600)	0.629	0.6287
45	Heptane		0.078	0.0734
46	2, 4-DCBC		0.949	0.9582
47	TBAB catalyst		0.073	0.0735
48	48%Caustic lye		0.013	0.0000
49	Indanamine	Fluindapyr (F-9990)	N.A.	0.6354
50	Pyrozole Carboxylic cid (DFI)		N.A.	0.5334
51	Heptane		N.A.	0.9867
52	Dimethyl Formamide		N.A.	0.0051
53	Thionyl Chloride		N.A.	0.4207
54	Caustic Soda Lye		N.A.	0.8937

* 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 discharged (mass/day) TPD except pH & Temp.	Concentrations of pollutants in discharges (mass/volume) mg/l except pH & Temp.	Percentage of variation from prescribed standard with reasons
Average Flow 126.35 m3/d.			
a) Water	TPD	mg/L	
	Zero Discharge Unit	Zero Discharge Unit	



b) Air		TPD	mg/Nm ³	
Vent Incinerator	SPM	0.0069	37.18	--
	SOx	0.0078	42.182	--
	NOx	0.0045	24.27	--
	Cl2	BDL	0.80	--
	HCl	BDL	1.39	--
	CO	0.0031	16.727	--
Boiler	SPM	0.068	79.33 mg/nm3	--
	SOx	0.020	22.92 ppm	--
	NOx	0.025	29.50 ppm	--

PART-D

Hazardous Wastes

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

Hazardous wastes	Total Quantity (kg)	
	During the previous financial year 2021-2022	During the current financial year 2022-2023
a) From Process		
Category	Type of Waste	
	(1)Recovered Sulphur	0
	(2)Used Oil	0
	(3) Evaporation Salt	0
	(4) Non Recyclable Plastic & Insulation Waste	42600
	(5) Incineration Waste & Co Processing	81625
	(6) Asbestous Sheet	3017970
		0
b) From Pollution Control facilities	ETP Sludge	514230
By products	Sodium Hydro sulfide 30%	2766860
	Hydrochloric Acid 30%	3485360
	Phosphoric Acid	606655
	Sodium Bisulphite Powder	383600
	Sodium Sulphite 30%	68050
	Sodium Bisulphite Solution (30%)	1084135
		1551450
		2753300
		3125755
		599990
		4200
		498420
		72

PART -E

Solid Wastes

	Total Quantity in Kgs	
	During the previous financial year 2021-2022	During the current financial year 2022-2023
a) From Process	Nil	Nil
b) From Pollution Control facilities	Nil	Nil
c) 1) Quantity recycled or re-utilized within the unit	Nil	Nil
2) Sold Discarded Container / Drum Cut sheet	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) Use of Dual Fuel Technology (NG and diesel) has been adopted in D.G. Sets (Backup Generators)
- (3)Use of Briquette as fuel is continued and Briquette boiler efficiency improvement has been done
- (4)Backpressure Steam Turbine system has been installed to covert waste steam in Power

PART -H

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

- (1) Rationalization of cooling tower has been done to save Energy
- (2) 4Rthn project has been implemented to conserve natural resources

PART -I

Any other particulars for improving the quality of the environment.

- (1) Recycling of Treated Effluent in process and Cooling Tower, Fire Hydrant etc is done and maintain ZLD Plant by operation of RO /
- (2) Domestic Effluent is treated separately in Sewage Treatment Plant (STP) and Treated water is used for Gardening / Planation
- (3) World Environment DaY was celebrated on 5th June and tree plant was done inside the premises

Date: 5-Sep-23

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

Name: Anil N Shah

Designation: Factory Manager

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



ANNEXURE -1

PRODUCTION CAPACITY (MT / YEAR)

Sr. No.	Products	Total Capacity
		(MT/Annum)
1	Phosphorus Trichloride (PCl ₃)	1000
2	Trimethyl Phosphite (TMP) or Triethyl Phosphite (TEP)	100
3	Diethyl Thio Phosphoryl Chloride (DETPC)/DETA/NaDETA	8000
4	Cyhalothrin Acid	250
5	Phosphorus Penta Sulphide (P ₂ S ₅)	3400
6	Fluindapyr (F 9990)	1350
7	Bixlozone (F9600)	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), Pyriothiac-Sodium(H), Methoxy Amine Hydrochloride (int), 2-hydroxyphenyl Acetic Acid (HPAA) (int)]etc.	150
9	Amide group based products [Fenitrothion (H), Captan (F), Cyromazine (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), Difenoconazo[e (F), Tricydazole (F), Myclobutanil (F), Florasulam (H), Tebuconazole (F), Flusilazole (F), Tebuconazole (F), Tridemefon, Paclobutrazol (F), Thiamethoxam (I), Flutriafol (F), (Safener Isoxadifen ethyl (Int), Irnidacloprid (I), 2, 6 DiChloroBenzoxazolone (Int), Penoxasulam (H)] etc.	200
12	Carbamate group based product [Thiodicarb (I), Propineb (F), Metiram (F), Thiram (F), Cartap hydrochloride (I), Thiophanate Methyl (F)] etc.	500
13	Ester group based products [Fenoxaprop-p-Et (H), Clodinafop-Pr (H), Quizolfop-p-ethyl (H), Quinzolfopp-terfuryl (H), Cyhalofop (H), Isoprothiolane (F), Alphamethrin (I), Lambda Cyhaothrin (I), Cypermethrin (I), Bifenazate (I), Phthalide (Int)] etc.	300
14	Ether group based products [Propargite (I), oxyfluorfen (H), S-Cyano MPB (Int), 2 Ethoxy Ethyl Amine (Int)] etc.	200
15	Ketone group based product [Mesotrione (H), Suctioned (H), Isoxaflutole (H), Dimethomorph (F), Isobutyrophenone (IBP) (Int)] etc.	1200
16	Phosphate group based product [Chlorpyrifos (I) or its intermidiate Na-TCP (Int), Acephate (I), Monocrotophos (I) or its intermediates MCMMAA (Int.), Dimethoate (I), Profenofos (I), Ethephon (PGR)] etc.	5000
17	Pyridine group based product [Pyridalyl (I), Imazethapyr (H) Cloquintocct Mexyl (H), Acetamiprid (I), 4,6-DiChloro Pyridine (Int)], Azoxvstrobin (F) etc.	250
18	Urea group based product [Buprofezin (I), Lufenuron (I), Linuron (H), Diafenthuron (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 CATEGORICAL 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
13	Spent Sulphuric Acid (20%)	Liquid	B-15	-----	-----	Sulphuric acid 20%	Sold to Authorized End users
14	Acetic acid (30%)	Liquid	B-28	-----	-----	Acetic acid 30%	Sold to Authorized End users

