

Date: 20-03-2020

Ref.: SGEPL/CIL-I/EC/01/2020

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

**Kind Attn. : Mr. H.V.C. Chary Guntupalli (Scientist 'D')**

**Sub: Submission of compliance report for our EC No. IA-J-11011/53/2018-IA-II (I), Date: 31<sup>st</sup> December 2019.**

Respected Sir,

With reference to your letter no. 5-13/2020 (ENV)/ 091, dated 27 January 2020 received by us, please find attached herewith compliance report.

Following are the annexures to this report:

Annexure No.	Annexure Details
A	Monitoring report data sheet
1	Compliance report of CC&A/CTO Amendment
2	Copy of EC Advertisement
3	Copy of existing EC and CC&A/CTO
4	Annual return- Form-4 (2018-2019)
5	Environmental statement- Form V (2018-2019)

Please find the above in order and acknowledge receipt.

Thanking You,

Yours faithfully,

**For M/s. Cheminova India Limited (Intermediate Division)**

  
**Authorized Signatory**

Copy to:

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

# EC COMPLIANCE REPORT

*For*

M/s. Cheminova India Limited (Intermediate Division)  
(Manufacturing of Agrochemicals & their Intermediates)  
Plot No. (27+28)/A, Notified GIDC Industrial Estate, Panoli,  
Dist. Bharuch 394 116, State-Gujarat, India.

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

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# EC Compliance Report

## A - Monitoring Report - DATA SHEET

### Monitoring the Implementation of Environmental Safeguards

Ministry of environment & Forests

Regional Office (W), Bhopal

Monitoring Reports

PART - 1

No. SC/Cheminova-Int/ EC-Datasheet/01-2020			
1	Project Type : River-Valley / Mining Industry / Thermal / Nuclear / other (Specify)	:	Pesticides Industry and Pesticide Specific Intermediates (Excluding Formulations)
2	Name of the Project	:	<b>Expansion Of Agrochemicals and their Intermediates at Existing Unit M/s. Cheminova India Limited (Intermediate Division).</b>
3	Clearance Letter(s)/ OM No. & Date	:	IA-J-11011/53/2018-IA-II(I) Date: 31 <sup>st</sup> December 2019
4	Location		
	a]. District (s)	:	Bharuch
	b]. State (s)	:	Gujarat
	c]. Latitude / Longitude	:	21°32'50.49"N/ 72°59'52.28"E
5	Address for Correspondence	:	Plot No. (27+28)/A, Notified GIDC Industrial Estate, Panoli, Dist. Bharuch 394 116, State-Gujarat, India.
	a]. Address of Concerned Project Chief Engineer With Pin code & Telephone / Telex / Fax Numbers.	:	Mr. Vinod S. Patel Tel. – 9033978622-26
	b]. Address of Executive Project Engineer / Manager (with Pin code / Fax Number)	:	Mr. Vinod S. Patel Tel. – 9033978622-26
6	Salient Features		
	a]. Of the Project	:	As detailed below
	<b>Components</b>	<b>Proposed Scenario</b>	
	EC No.		IA-J-11011/53/2018-IA-II(I)
	Environmental Clearance accorded for -		<b>Product name attached in Annexure-1</b>
	Total Power Requirement		3500 KVA
	Source of Power		DGVCL
	Fresh Water requirement		764 KL/day
	Source of Water Supply		GIDC water supply
	Wastewater Generation		Industrial : 833 KL/day Domestic : 45 KL/day
	Process Emissions		HCl, NH <sub>3</sub> , Cl <sub>2</sub> , SO <sub>2</sub> , NO <sub>x</sub> , H <sub>2</sub> S, CO, HC, PM
	Flue Gas Emission		PM, SO <sub>2</sub> , NO <sub>x</sub>
	Fuel Type		Natural gas or Furnace oil, HSD, Briquettes/ Bagasse/ Groundnut shell



## EC Compliance Report

Fuel Requirement		Natural Gas- 10800 Nm <sup>3</sup> /h, HSD- 90 L/h, Briquettes/ Bagasse/ Groundnut shell - Briquettes 5186 kg/h	
Man power		Total: 600 (Company + Contract) employee	
b). Of the Environmental Management Plans		:	As follows.
Sr. No.	Activity	Status	
1	Formulation of EHS cell Constitutes EHS in charge, ETP super visor and operators, Lab chemist and assistants	EHS cell consists of EHS in charge, ETP super visor and operators, Lab chemist and assistants.	
2	For Air Environment Management <ul style="list-style-type: none"> <li>To monitor the ambient air quality parameters and flue gas emissions within premises and also in the nearby area regularly and to compare with the regulating standards so that any necessary corrective actions can be taken.</li> <li>Work place monitoring to be carried out periodically to check fugitive emissions, if any.</li> <li>To develop and maintain greenbelt, in and around the factory, for reducing the effect of air pollutants due to their deposition.</li> <li>To follow proper loading and unloading practices to minimize dusting</li> <li>To maintain proper record for the fuel consumption, start-up time and duration of boiler operation towards energy conservation</li> </ul>	<ul style="list-style-type: none"> <li>Company maintains its own records and monitors the ambient air and flue gas emission within premises periodically. Monitoring of ambient air &amp; flue gas analysis is done by Siddhi Green Excellence Pvt Ltd., Ankleshwar.</li> <li>Work place monitoring to be carried out periodically by Siddhi Green Excellence Pvt Ltd., Ankleshwar.</li> <li>Unit has developed &amp; maintained greenbelt area.</li> <li>Unit is having closed system for loading and unloading of chemicals.</li> <li>Unit is maintaining records for the fuel consumption, start-up time and duration of boiler operation towards energy conservation</li> </ul>	
3	For Water Environment Management <ul style="list-style-type: none"> <li>To investigate possibilities of water reuse and recycling for reducing water consumption and wastewater generation</li> <li>Records of water consumption, effluent generation, effluent discharge, water characteristics, treated and untreated effluent characteristics to be maintained.</li> <li>To monitor the adequacy and efficiency of ETP so that the effluent is given suitable treatment and the treated effluent meets specified norms of available CC&amp;A of GPCB</li> <li>The effluent collection and discharge drainages, effluent handling and treatment systems to be maintained and regularly monitored to prevent leakages or sudden break-down.</li> <li>Proper house-keeping to be adopted to prevent spillages and contaminated surface runoff going to storm water drains.</li> </ul>	<ul style="list-style-type: none"> <li>Reuse and recycling options are being investigated together with feasibility of rainwater harvesting</li> <li>Unit is maintaining records of water consumption, effluent generation, effluent discharge, water characteristics, treated and untreated effluent characteristics.</li> <li>The adequacy and efficiency of ETP is maintained well and the effluent is treated appropriately at all the stages. It is ensured that the treated effluent meets specified norms of as specified in CC&amp;A of GPCB.</li> <li>The effluent collection and discharge drainages, effluent handling and treatment systems are maintained and regularly monitored to prevent leakages or sudden break-down by preventive maintenance of all ETP units is taken periodically by taking appropriate proactive actions.</li> <li>Good house-keeping practices have been implemented by the unit to prevent spillages and contaminated surface runoff going to storm water drains.</li> </ul>	

## EC Compliance Report

4	<p>For Hazardous / Non-hazardous waste management</p> <ul style="list-style-type: none"><li>• Proper storage and handling arrangements in compliance to the conditions of authorization granted by SPCB.</li><li>• Proper signboards to be provided at relevant places.</li><li>• All the necessary regulatory procedures as per the amended Hazardous Waste Management &amp; Handling Rules – 2003 to be followed and adhered with.</li><li>• The transportation of hazardous waste to the TSDF Site to be as per the guidelines and accompanied with Form-9.</li><li>• 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.</li></ul>	<ul style="list-style-type: none"><li>• Appropriate storage and handling arrangements for all the hazardous waste are provided as per the conditions specified in the authorization granted by GPCB.</li><li>• Signboards are provided at relevant places.</li><li>• Unit is following all the applicable regulatory procedures as per the amended Hazardous Waste Management &amp; Handling Rules – 2016.</li><li>• Unit is following guidelines for transportation of hazardous waste to all the TSDF &amp; CHWIF and is accompanied with form-9.</li><li>• Monthly records of generation, storage and disposal of hazardous waste are maintained in a record register as per the format of Form-3 as per amended Hazardous Waste rules – 2003 and annual returns of disposal of all the hazardous waste are submitted to GPCB in prescribed forms – 4 and form – 13.</li></ul>																								
<b>Note:</b> Environment Statement – Form V (Financial year -2018-19) is attached as Annexure-4.																										
7	Production details during compliance period and (or) during the previous financial year	<table><tr><th colspan="2">Production Details</th></tr><tr><th>Month</th><th>Quantity (MTM)</th></tr><tr><td>April 2019</td><td>405.000</td></tr><tr><td>May 2019</td><td>384.000</td></tr><tr><td>June 2019</td><td>415.000</td></tr><tr><td>July 2019</td><td>355.000</td></tr><tr><td>August 2019</td><td>370.000</td></tr><tr><td>September 2019</td><td>387.083</td></tr><tr><td>October 2019</td><td>450.716</td></tr><tr><td>November 2019</td><td>425.000</td></tr><tr><td>December 2019</td><td>177.093</td></tr><tr><td>January 2020</td><td>363.090</td></tr></table>	Production Details		Month	Quantity (MTM)	April 2019	405.000	May 2019	384.000	June 2019	415.000	July 2019	355.000	August 2019	370.000	September 2019	387.083	October 2019	450.716	November 2019	425.000	December 2019	177.093	January 2020	363.090
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8	Break Up of the Project Area	: Notified GIDC Industrial Estate, Panoli																								
	a]. Submergence area : forest & Non-forest																									
	b]. Others																									
9	Breakup of the project affected population with enumeration of those losing houses / dwelling units, only agricultural land, dwelling units & agricultural land & landless laborers / artisan.	: Not applicable since unit is located in Notified GIDC Industrial Estate, Panoli																								
	a]. SC , ST / Adivasis	: ---																								
	b]. Others	: ---																								
	(Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey is carried out give details and years of survey)	: ---																								
10	Financial Details	:																								

## EC Compliance Report

	a]. Project cost as originally planned and subsequent revised estimates and the year of price reference	:	Rs. 790.36 crore (For proposed Expansion only)																																				
	b]. Allocation made for environmental management plans with item wise and year wise break-up.	:	As follows																																				
	<table> <tr> <th>Sr.No.</th><th>Particulars</th><th>Recurring Cost Per Annum [Rs. In lakh]</th><th>Capital Cost (Rs. In lakh)</th></tr> <tr> <td>1</td><td>Air Pollution Control</td><td>683</td><td>600</td></tr> <tr> <td>2</td><td>Water Pollution Control</td><td>1366</td><td>1200</td></tr> <tr> <td>3</td><td>Noise Pollution Control</td><td>5</td><td>3</td></tr> <tr> <td>4</td><td>Environment Monitoring &amp; Management</td><td>153</td><td>90</td></tr> <tr> <td>5</td><td>Occupational Health &amp; Safety</td><td>50</td><td>12</td></tr> <tr> <td>6</td><td>Green Belt development &amp; maintenance</td><td>20</td><td>5.0</td></tr> <tr> <td>7</td><td>Solid waste management</td><td>228</td><td>8290</td></tr> <tr> <td colspan="2"><b>TOTAL Planned</b></td><td><b>2505</b></td><td><b>10200</b></td></tr> </table>	Sr.No.	Particulars	Recurring Cost Per Annum [Rs. In lakh]	Capital Cost (Rs. In lakh)	1	Air Pollution Control	683	600	2	Water Pollution Control	1366	1200	3	Noise Pollution Control	5	3	4	Environment Monitoring & Management	153	90	5	Occupational Health & Safety	50	12	6	Green Belt development & maintenance	20	5.0	7	Solid waste management	228	8290	<b>TOTAL Planned</b>		<b>2505</b>	<b>10200</b>		
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<b>TOTAL Planned</b>		<b>2505</b>	<b>10200</b>																																				
	c]. Benefit cost ratio / Internal rate of return and the year of assessment	:	Not applicable																																				
	d]. Whether (c) includes the cost of environmental management as shown in the above	:	Yes																																				
	e]. Actual expenditure incurred on the project so far	:	--																																				
	f]. Actual expenditure incurred on the Environmental Management Plan so far	:	--																																				
11	Forest land Requirement	:	Notified GIDC Industrial Estate, Panoli																																				
	a]. The status of approval for diversion of forest land for non-forestry use	:	--																																				
	b]. The Status of clearing felling	:	--																																				
	c]. The status of compensatory afforestation, if any	:	--																																				
	d]. Comments on the viability & sustainability of compensatory afforestation programme in the light of actual field experience so far	:	--																																				
12	The status of clear felling in non-forest areas (such as submergence area of reservoir, approach roads), if any with quantitative information.	:	Notified GIDC Industrial Estate, Panoli																																				
13	Status of construction	:	EC copy received																																				
	a]. Date of commencement (Actual and / or Planned).	:	Will be started at earliest.																																				
	b]. Date of completion (Actual and / or Planned)	:	Based on the commissioning of project. Five years.																																				
14	Reasons for the delay if the project is yet to start	:	Not applicable																																				
15	Dates of site visits	:																																					
	a]. The dates on which the project was	:	13/12/2019																																				

## EC Compliance Report

	monitored by the Regional Office on Previous occasions, if any		
	b]. Date of site visit for this monitoring project	:	--
16	Details of correspondence with project authorities for obtaining action plans / information on status of compliance to safeguards other than the routine letters for logistic support for site visits	:	--
	(The first monitoring report may contain the details of all the letters issued so far, but the later reports may cover only the letters issued subsequently.)	:	--

**Note:** CC&A/CTO compliance report is attached as **Annexure - 1**.

Compliance to letter dated 27 <sup>th</sup> January 2020 having File No. 5-13/2020 (ENV)/ 091, issued by MoEF&CC, Bhopal		
Sr. No.	Conditions	Compliance Status
I.	Present status (physical/civil) of work progress.	EC Copy received
II.	Point wise compliance status to various stipulations (as per applicability) with supporting documents and reports, if any	--
III.	Period of compliance for which compliance report is being submitted.	EC Compliance Report
IV.	Copies of <ul style="list-style-type: none"> <li>- EIA/EMP/Form-I.</li> <li>- Consent to Establish/Operate from GPCB</li> <li>- Recommendations of the Public Hearing, if any</li> <li>- The copy of Advertisement</li> </ul>	<ul style="list-style-type: none"> <li>- EIA/EMP/Form-I copies are attached with EC Compliance report.</li> <li>- CTO/CTE copies are attached as Annexure – 3.</li> <li>- Not Applicable as unit is located in Notified GIDC Industrial Estate, Panoli</li> <li>- Copy of Advertisement is attached as Annexure – 2.</li> </ul>
V.	The information in the enclosed Data-sheet.	Data sheet filled as above.

## Six Monthly EC Compliance Report

### Annexure 1 - Compliance report of CC&A/CTO and its Amendment

CCA No: AWH-86147, Date of issue-23 <sup>rd</sup> -May-2017 and valid up to 4 <sup>th</sup> -March-2022, CCA amendment dated 09/08/2017 having CTO no.: GPCB/ANK/CCA-115/ID-15016/419703, CCA amendment no.: AWH-94667 dated 31/08/2018, CCA amendment order no.: AWH-104863 issued vide letter no. GPCB/ANK/CCA-115 (13) ID-15016/529725, dated 10/12/2019						
Sr. No.	Consent Condition Requirement					Compliance Status
1.	The list of proposed products to be manufactured shall be as follows.					It will be ensured that different Products are manufactured as per its granted quantity by Gujarat pollution control board.
Sr. No.	Name of Product	Quantity (MT/Year)				
		Existing	Proposed	Total (After Change in Product Mix)	Remarks	
1.	Phosphorus Trichloride (PCl <sub>3</sub> )/ Phosphoryl chloride (POCl <sub>3</sub> )	1000	--	1000	No Change	
2.	Tri methyl Phosphite (TMP) or Tri ethyl Phosphite (TEP)	100	--	100	No Change	
3.	Diethyl Thio Phosphoryl Chloride (DETPC) /Sodium salt of Diethyl Thio Phosphoryl Chloride (Na-DETA)	5330	--	5330	No Change	
4.	Cyhalothrin Acid	250	--	250	No Change	
5.	Phosphorus Penta Sulphide (P <sub>2</sub> S <sub>5</sub> )	3400	--	3400	No Change	
6.	Fluindapyr (F9990)	--	+150	150	New Product	
7.	Bixlozone (F9600)	--	+960	960	New Product	
8.	Acid based products [2-bromobutyric Acid (int), amino acid (int), ethyl 2-( 4-hydroxy phenoxy) propionate (O-HPPA) (int), Thiocyclam (I), Bispyribac-Sodium (H), Pyriethiobac-Sodium(H), Methoxy Amine Hydrochloride (int), 2- hydroxyphenyl Acetic Acid (HPAA) (int),] etc.	150	--	150	No Change	
9.	Amide group based products [Pretilachlor (H), Captan (F), Cymoxanil (F), Beflubutamide (H), Pethoxamide (H), Carboxin (F), Flubendamide (I), Chlorantraniliprole (I), Thiaflusamide (F), Zoxamide (F), Flufenacet (H), 2 Aminosulfonyl-N-N- Dimethylnicotinamide (SNA) (int), 2-(Methoxycarbonyl) thiophene thiophene-3 Sulfonamide (MST) (Int)] etc.	150	--	150	No Change	
10.	Aniline group Bases products [Pendimethalin (H), Fluazinam (F), Metalaxyl (F), Famoxadone (F)] etc.	1200	-1200	--	Discontinue Product	
11.	Azine group based product Fenpyroximate (I), Metribuzin (H), Pymetrozine (I), Arnitraz (I), Indoxacarb (I),	300	--	300	No Change	

## EC Compliance Report

CCA No: AWH-86147, Date of issue-23 <sup>rd</sup> -May-2017 and valid up to 4 <sup>th</sup> -March-2022, CCA amendment dated 09/08/2017 having CTO no.: GPCB/ANK/CCA-115/ID-15016/419703, CCA amendment no.: AWH-94667 dated 31/08/2018, CCA amendment order no.: AWH-104863 issued vide letter no. GPCB/ANK/CCA-115 (13) ID-15016/529725, dated 10/12/2019						
Sr. No.	Consent Condition Requirement					Compliance Status
	Clofentezine (I), 2 Methoxy- 4 - Methyl-6-Methylamino-1,3,5-Triazine (MMMT) (Int)] etc.					
12.	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/Isxadifen ethyl (Int), Irnidacloprid (I), 2, 6 DiChloroBenzoxazolone (Int), Penoxasulam (H)] etc.	200	--	200	No Change	
13.	Carbamate group based product [Thiodicarb (I), Propineb (F), Metiram (F), Thiram (F), Cartap hydrochloride (I), Thiophanate Methyl (F)] etc.	500	--	500	No Change	
14.	Ester group based products [Fenoxaprop-p-Et (H), Clodinafop-Pr (H), Quizolfop-p-ethyl (H), Quinzolfop-p-terfuryl (H), Cyhalofop (H), Isoprothiolane (F), Alphamethrin (I), Lambda Cyhathrin (I), Cypermethrin (I), Bifenazate (I), Phthalide (Int)] etc.	300	--	300	No Change	
15.	Ether group based products [Propargite (I), oxyfluorfen (H), S- Cyano MPB (Int), 2 Ethoxy Ethyl Amine (Int), ] etc.	200	--	200	No Change	
16.	Ketone group based product [Mesotrione (H), Suctioned (H), Isoxanutole (H), Dimethomorph (F), Isobutyrophenone (IBP) (Int)] etc.	1200	--	1200	No Change	
17.	Phosphate group based product [Chlorpyrifos (I) or its intermediate Na-TCP (Int), Acephate (I), Monocrotophos (I) or its intermediates MCMMAA (Int.), Dimethoate (I), Profenofos (I), Ethephon (PGR)] etc.	5000	--	5000	No Change	
18.	Pyridine group based product [Pyridalyl (I), Imazethapyr (H) CloquintocctMexyl (H), Acetamiprid (I), 4, 6-DiChloro Pyridine (Int)], Azoxvstrobin (F) etc	250	--	250	No Change	
19.	Urea group based product [Buprofezin (I), Lufenuron (I), Linuron (H), Diafenthiuron (I), Diuron (H), Novaluron (I), Chlorimuron (int), Hexythiazox	100	--	100	No Change	

## EC Compliance Report

CCA No: AWH-86147, Date of issue-23 <sup>rd</sup> -May-2017 and valid up to 4 <sup>th</sup> -March-2022, CCA amendment dated 09/08/2017 having CTO no.: GPCB/ANK/CCA-115/ID-15016/419703, CCA amendment no.: AWH-94667 dated 31/08/2018, CCA amendment order no.: AWH-104863 issued vide letter no. GPCB/ANK/CCA-115 (13) ID-15016/529725, dated 10/12/2019						
Sr. No.	Consent Condition Requirement					Compliance Status
	(I), Spiromesifen (I), Azimsulfuron (H) ,Sulfonyl Ureas (H)] etc.					
20.	Phenol group based product [2- Cyanophenol (Int), 4- Fluro-3 trilluromethylphenole (Int)] etc.	75	--	75	No Change	
	<b>Total</b>	<b>19705</b>	<b>-90</b>	<b>19615</b>		
<b>2</b>	<b><u>SPECIFIC CONDITIONS</u></b>					
a.	Total production shall not exceed 19615 MT/Year in any case.					It will be ensured that the total production will not exceed 19615 MT/month.
b.	There shall be no change in mode of disposal of wastewater.					Mode of disposal of waste water will not be altered.
c.	There shall be no change in fuel consumption, flue gas emission and process gas emission.					There will be no change in fuel consumption, flue gas emission and process gas emissions.
d.	There shall be no change in Hazardous waste quantity/category.					There will be no change in hazardous waste quantity / category.
e.	Unit shall sell out their hazardous waste to authorized end-users who is having authorization with valid CCA and Rule 9 permission to receive this waste. Unit shall make MoU with such authorized end-users and submit MoU at time of application of CCA.					The hazardous waste will be sold to authorized end-users having valid CCA and rule-9 permission. MoU will be prepared prior start of sell of hazardous waste.
f.	All the efforts shall be made to send hazardous waste to cement industry for Co-processing first & there after it shall be disposed through other option.					Efforts will be made to send the hazardous waste to cement industry for co-processing at first and later other options will be opted.
g.	Unit shall follow spent solvent management guideline framed by board and shall make MoU with outside distillation units, if a ny. Also submit the prescribed forms as per guideline.					Spent solvent management guidelines will be followed and MoU with external distillation

## EC Compliance Report

CCA No: AWH-86147, Date of issue-23 <sup>rd</sup> -May-2017 and valid up to 4 <sup>th</sup> -March-2022, CCA amendment dated 09/08/2017 having CTO no.: GPCB/ANK/CCA-115/ID-15016/419703, CCA amendment no.: AWH-94667 dated 31/08/2018, CCA amendment order no.: AWH-104863 issued vide letter no. GPCB/ANK/CCA-115 (13) ID-15016/529725, dated 10/12/2019		
Sr. No.	Consent Condition Requirement	Compliance Status
		units will be done. Required forms will be filed.
h.	There shall not be increase in pollution load due to proposed change in product mix.	There will not be increase in pollution load due to proposed change in product mix.
i.	There shall not be any change in plant building, equipments & machineries to manufacture the proposed new products after change in product mix.	No changes in plant building, equipment's & machineries will be done for manufacturing the proposed new products after change in product mix.
j.	In the case of submission of the false or misleading data, this CTE amendment will be forwarded immediately.	Noted.
k.	CCA is granted with a condition to comply guideline to be issued by Ministry of Environment, Forest and Climate Change in the matter of O.A.No. 1038/2018 and Hon. NGT order dated: 10/07/2019 and 23/08/2019.	Noted
l.	Mother Liquor 35 KLD shall be incinerated in common incinerator facility at BEIL or SEPPL or GSPL, Palsana OR send it for co-processing to cement industries.	Complied
m.	There shall be no change in water consumption, wastewater generation and their mode of disposal.	Noted.
n.	As per the submission, calcium chloride (30%): 1000 MT/Year, Ammonium Chloride Sol (16%): 15,300 MT/Year, Liq. Ammonia (20%): 3600 MT/Year is not produced since 2015 due to not manufacture TMP so whoever unit will manufacture TMP, unit shall obtain CCA Amendment for the same with all required document like MoU with enduser & Rule-9 permission of enduser.	Noted.
<b>3</b>	<b>CONDITION UNDER THE WATER ACT:</b>	
3.1	The condition No. 3.3 for water consumption under Water Act of the CCA order No. AWH-86147, issued vide letter no. GPCB/ANK/CCA-115(9)/ID-15016/415086, dated 16/06/2017 and further amended dated 31/08/2018 is amended and shall now be read as under. a) Domestic : 25 KL/Day (Existing 25 KLD + Proposed Nil) b) Industrial : 423 KL/Day (Existing 429 KLD - Proposed 6 KLD) c) Gardening : 25 KL/Day (Existing 25 KLD - Proposed Nil) d) Total: 473 KL/Day (Existing 479 KLD - Proposed 6 KLD)	Complied
3.2	The condition No. 3.1 & 3.2 for wastewater Generation under Water Act of the CCA order No. AWH-86147, issued vide letter no. GPCB/ANK/CCA-115(9)/ID-15016/415086, and further amended dated 31/08/2018 is amended and shall now be read as under. a) Domestic : 25 KL/Day (Existing 25 KLD + Proposed Nil) b) Industrial : 176 KL/Day (Existing 181 KLD - Proposed 5 KLD) c) Total: 104.4 KL/Day (Existing 206 KLD - Proposed 5 KLD)	Complied
3.3	176 KLD treated effluent shall be discharged to NCTL by underground drainage line and 25 KLD domestic sewage shall be disposed off	Complied.



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CCA No: AWH-86147, Date of issue-23 <sup>rd</sup> -May-2017 and valid up to 4 <sup>th</sup> -March-2022, CCA amendment dated 09/08/2017 having CTO no.: GPCB/ANK/CCA-115/ID-15016/419703, CCA amendment no.: AWH-94667 dated 31/08/2018, CCA amendment order no.: AWH-104863 issued vide letter no. GPCB/ANK/CCA-115 (13) ID-15016/529725, dated 10/12/2019																																																								
Sr. No.	Consent Condition Requirement	Compliance Status																																																						
	through septic tank/soak pit system as per previous CCA conditions.	Treated effluent is discharged to NCTL by underground drainage line as per previous CCA conditions.																																																						
3.4	<p>Sewage shall be disposed off through septic tank/soak pit system or shall be treated separately in Sewage Treatment Plant (STP) to conform the following standards and treated sewage shall be utilized on land for irrigation / plantation.</p> <table border="1"> <thead> <tr> <th>Sr. No.</th><th>Parameters</th><th>Permissible Limit</th></tr> </thead> <tbody> <tr> <td>1</td><td>Biochemical Oxygen Demand, BOD<sub>3</sub>, 27°C</td><td>Less than 20 mg/L</td></tr> <tr> <td>2</td><td>Total Suspended Solids</td><td>Less than 30 mg/L</td></tr> <tr> <td>3</td><td>Total Residual Chlorine</td><td>Minimum 0.5 ppm</td></tr> </tbody> </table> <p>Or Sewage shall be treated in ETP along with Industrial Effluent and discharged into GIDC underground drainage system and conveyed to FETP (NCTL).</p>	Sr. No.	Parameters	Permissible Limit	1	Biochemical Oxygen Demand, BOD <sub>3</sub> , 27°C	Less than 20 mg/L	2	Total Suspended Solids	Less than 30 mg/L	3	Total Residual Chlorine	Minimum 0.5 ppm	Complied.																																										
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3.5	<p>The quality of industrial effluent shall conform to the following standards (as per GPCB norms, whichever is applicable).</p> <table border="1"> <thead> <tr> <th>Sr no.</th><th>PARAMETERS</th><th>PERMISSIBLE LIMIT</th></tr> </thead> <tbody> <tr><td>1</td><td>pH</td><td>6.5 to 8.5</td></tr> <tr><td>2</td><td>Temperature</td><td>40°C</td></tr> <tr><td>3</td><td>Colour (pt.co.scale)</td><td>100 units</td></tr> <tr><td>4</td><td>Total Suspended solids (TSS)</td><td>150 mg/l</td></tr> <tr><td>5</td><td>Total Dissolved Solids</td><td>10000 mg/l</td></tr> <tr><td>6</td><td>Biochemical Oxygen Demand, BOD<sub>3</sub>, 27°C</td><td>200 mg/l</td></tr> <tr><td>7</td><td>Chemical Oxygen Demand (COD)</td><td>1000 mg/l</td></tr> <tr><td>8</td><td>Oil and Grease</td><td>10 mg/l</td></tr> <tr><td>9</td><td>Phenolic compounds (as C<sub>6</sub>H<sub>5</sub>OH)</td><td>5 mg/l</td></tr> <tr><td>10</td><td>Sulphide (as S)</td><td>5 mg/l</td></tr> <tr><td>11</td><td>Ammonical Nitrogen (As N)</td><td>50 mg/l</td></tr> <tr><td>12</td><td>Total Kjeldahl Nitrogen (as N)</td><td>50 mg/l</td></tr> <tr><td>13</td><td>Phosphate (as P)</td><td>5 mg/l</td></tr> <tr><td>14</td><td>Chlorides (as Cl)</td><td>1000 mg/l</td></tr> <tr><td>15</td><td>Sulphates (as SO<sub>4</sub>)</td><td>1000 mg/l</td></tr> <tr><td>16</td><td>Cyanide (as CN)</td><td>0.2 mg/l</td></tr> <tr><td>17</td><td>Flouride (as F)</td><td>15 mg/l</td></tr> </tbody> </table>	Sr no.	PARAMETERS	PERMISSIBLE LIMIT	1	pH	6.5 to 8.5	2	Temperature	40°C	3	Colour (pt.co.scale)	100 units	4	Total Suspended solids (TSS)	150 mg/l	5	Total Dissolved Solids	10000 mg/l	6	Biochemical Oxygen Demand, BOD <sub>3</sub> , 27°C	200 mg/l	7	Chemical Oxygen Demand (COD)	1000 mg/l	8	Oil and Grease	10 mg/l	9	Phenolic compounds (as C <sub>6</sub> H <sub>5</sub> OH)	5 mg/l	10	Sulphide (as S)	5 mg/l	11	Ammonical Nitrogen (As N)	50 mg/l	12	Total Kjeldahl Nitrogen (as N)	50 mg/l	13	Phosphate (as P)	5 mg/l	14	Chlorides (as Cl)	1000 mg/l	15	Sulphates (as SO <sub>4</sub> )	1000 mg/l	16	Cyanide (as CN)	0.2 mg/l	17	Flouride (as F)	15 mg/l	Complied.
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Sr. No.	Consent Condition Requirement			Compliance Status
	18	Hexavalent Chromium (as Cr +6)	0.1 mg/l	
	19	Total Chromium (as Cr)	2 mg/l	
	20	Copper (as Cu)	3 mg/l	
	21	Nickel (as Ni)	3 mg/l	
	22	Zinc (as Zn)	15 mg/l	
	23	Iron (as Fe)	3 mg/l	
	24	Manganese (as Mn)	2 mg/l	
	25	Mercury (as Hg)	0.01 mg/l	
	26	Lead (as Pb)	0.1 mg/l	
	27	Arsenic (as As)	0.2 mg/l	
	28	Venedium (as V)	0.2 mg/l	
	29	Cadmium (as Cd)	0.05 mg/l	
	30	Selenium (as Se)	0.05 mg/l	
	31	Bio-assay test	90 % survival of fish after 96 hrs in 100 % effluent	
	32	Insecticides/Pesticides	Absent	
3.6	Unit shall only use treated effluent for preparation of lime and other slurry in ETP. No fresh water shall be utilized in ETP.			Treated effluent is used for preparation of lime solution in ETP.
3.7	In the case, if the Industry is not a member of CETP and domestic waste water generation is more than 10 KLPD, industry shall install STP of adequate capacity and treated sewage shall be reused/ recycled to the maximum extent.			Not applicable as the Industry is a member of CETP.
3.8	In case of Large and Medium Red Category industry, the unit shall install system for continuous monitoring of effluent quality/ quantity as per CPCB guidelines for relevant parameters (like pH, Flow, Temperature, TOC/COD, NH3-N etc.) and shall be connected to GPCB server. In case, if the industry is a member of CETP, unit shall install flow meter.			Continuous monitoring of effluent quality and quantity is done as per the CPCB guidelines for relevant parameters.
3.9	If the water consumption of the unit is more than 50 KLPD, Unit shall submit detailed water harvesting plan (off site).			We are in a process of communication with G.I.D.C., Notified area authorities, P.I.A. authorities for planning of rain water harvesting plan (offsite).

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Sr. No.	Consent Condition Requirement	Compliance Status
		After receipt of approval from the authorities same will be complied. Meanwhile on site, roof top rain water harvesting plan is in progress.
3.10	The unit shall explore Techno-Economic feasibility of Zero Liquid Discharge (ZLD) and if feasible, ZLD should be adopted.	Noted
3.11	The effluent conforming to the above standards shall be discharged into G.I.D.C. underground drainage system and conveyed to FETP (NCTL) which ultimately leads to deep sea for final disposal through pipeline.	Complied. The Unit is following the given condition.
3.12	Unit shall be required to make storage facilities to store the effluent for at least 72 hours by providing acid proof brick lined impervious tanks / HDPE tanks	Storage capacity of more than 72 hours is available. The material of construction of storage tanks is based on the characteristic of the effluent (HDPE/FRP/Acid brick lining/RCC/metallic).
3.13	In case of shut – down of plant for more than three (3) days for any reason, the NCTL unit member shall intimate to NCTL authority & GPCB well in advance for the better operation & management of CETP.	Complied
3.14	Unit shall make fixed arrangement for discharge of the effluent from their Final collection tanks to the underground drainage network of NCTL. Unit shall not keep any by-pass line or system or loose or flexible pipe line for discharge of the effluent into underground drainage network of NCTL.	Complied.
3.15	Magnetic flow meters shall be installed at the inlet & outlet of effluent collection tanks / ETP to measure the quantity of effluent discharged into the underground drainage network of NCTL.	Complied. Unit has installed magnetic flow meter as per the given condition.
3.16	Unit shall affix of water meters as per Section 4 (1) of the water (Prevention and Control of Pollution) Cess Act-1977 for the purpose of measuring and recording the quantity of water consumed at such places as may be required, within 15 days and it shall be presumed that the quantity indicated by the meter has been consumed by the unit until the contrary is proved.	Complied.
3.17	Unit shall provide adequate / safe effluent sampling facility for the effluent being stored in final collection / discharge tank of ETP or being discharged into CETP.	Complied. Unit is following the given condition.
3.18	Unit shall put up at the entrance a board displaying the name of unit, particulars of the products / process, the name of proprietor / partners / directors of the unit, NCTL membership number & date of joining of NCTL, the electricity consumer number as on the record of DGVCL.	Complied
3.19	Unit shall have to display on – line data outside the main factory gate with regard to and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises.	Complied

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Sr. No.	Consent Condition Requirement	Compliance Status
3.20	Unit shall either stop or curtail its production activities if the effluent is not adequately treated by the FETP of NCTL to conform to the standards specified by GPCB.	Complied.
3.21	The authorized representative of NCTL shall have right of entry at any time for the purpose of inspection and monitoring the effluent collection facilities / ETP (if required) of Unit.	Complied.
3.22	Unit shall have to keep accurate records of quality & quantity of effluent discharged to FETP on day-to-day basis. Separate logbook shall be maintained for recording the data & shall be made available for inspection as & when asked.	Complied.
3.23	Unit shall keep accurate records of quantity of production of each product, quantity of water consumption, quantity of effluent generated and consumption of electricity on day to day basis and required to submit the complied record of each month to GPCB on or before fifth day of the succeeding month.	Complied. Unit is e-filling Monthly Patrak on GPCB XGN Site every month.
3.24	In case of incinerators or MEE, the flow measuring devices for mother liquor / toxic effluent / Non-biodegradable effluent, light diesel oil, Furnace oil, etc. i.e. fuel used for combustion, air used for combustion shall be separately provided. Incinerator temperature recording devices as well as gaseous flow measuring devices for scrubber shall also be provided. These data of temperature & flow should be recorded every day & submitted to GPCB on monthly basis.	Not applicable
3.25	Disposal system for storm water shall be provided separately. In no circumstances storm water shall be mixed with the industrial effluent.	Complied. Unit has provided storm water line.
3.26	Leachate from the hazardous solid waste, if any shall also be connected into a collection tank through leachate collection facilities and shall be treated along with industrial effluent and final treated effluent shall be discharged to the CETP of NCTL.	Complied. Unit is following the given condition.
3.27	If the NCTL authority terminates the membership of CETP, the NCTL member unit shall have to close down the manufacturing activities / industrial operation of the process plant immediately until the NCTL membership is resumed.	Complied.
3.28	The Environmental Management Unit / Cell shall be setup to ensure implementation on and monitoring of environment safeguards and other conditions stipulated by statutory authorities. The Environmental Management Cell / Unit shall directly report to the Chief Executive of the organization and shall work as a focal point for internalizing environmental issues. These Cells also coordinate the exercise of environmental audit and preparation of environmental statements.	Complied
3.29	The environmental audit shall be carryout yearly, if applicable. The environmental statements pertaining to the previous year shall be submitting to this State Board latest by 30 <sup>th</sup> September every year.	Complied.
3.30	Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is at least 1000 trees per acre of land and a green belt of 5 meters width is developed.	Complied.
3.31	In case of change of ownership / management the name and address of the new ownership / partners / directors / proprietor should immediately be intimate to the Board. Also any change in equipment or working conditions as mentioned in the consents form / order should immediately be intimated to this Board.	Complied
3.32	The Board reserves the right to review and/or revoke the consent and/or make modifications in the conditions which it seems fit in accordance with provisions of Water Act-1974.	Noted

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Sr. No.	Consent Condition Requirement									Compliance Status
4	<b>CONDITIONS UNDER THE AIR ACT.</b>									
	<b>Specific Condition</b>									
	1. Unit shall operate only one boiler (i.e. NG based Boiler Maxima GT-5310 (Cap. 10 TPH) OR Furnace Oil based Boiler I AC GT-4423 (Cap 10 TPH)) at a same time.									Complied. Unit is following the given condition.
4.1	Unit shall use fuel as specified in this consent and the flue gas emission through stack shall conform to the standards.									Complied
	Sr. No.	Stack ID/Stack Attached to	Capacity/Remarks	Name of Fuel	Quantity of Fuel	Air Pollution Control Measure (APCM)	Stack Height (m) (From GL)	Parameters	Permissible Limit	Unit
	1	95313-Boiler	Common stack of Boiler Maxima GT-5310 (Cap 10 TPH) & Boiler IAC GT-4423 (Cap 10 TPH)	Natural gas	NG- 9000 m <sup>3</sup> /h or FO- 625 L/h	Not Applicable	32	PM SO <sub>2</sub> NO <sub>x</sub>	150 100 50	mg / Nm <sup>3</sup> ppm ppm
	2	8826-D.G. Sets	D.G. Set Cap. 1250 KVA	HSD	90 L/h	Not Applicable	09	PM SO <sub>2</sub> NO <sub>x</sub>	150 100 50	mg / Nm <sup>3</sup> ppm ppm
	3	44916-Incinerator	Incinerator for waste gas with APCM as Water+Alkali Scrubber (Dhal Chamber)	Not used/NA	--	Water Scrubber + Alkali Scrubber	45	Parameters as mentioned below	--	--
	4	60699-Boiler	Boiler (Model-Tejaswee- Cap.: 18 TPH)	Agro Waste / Briquettes	Bagasse/Groundnut shell/Briquettes: 2970 kg/h	Dust collector, Bag filter	40	PM SO <sub>2</sub> NO <sub>x</sub>	150 100 50	mg / Nm <sup>3</sup> ppm ppm

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Sr. No.	Consent Condition Requirement			Compliance Status		
	Treated flue gas emissions discharge through stack of Incinerator to atmosphere shall always be less than or equal to the following parameter specific emission standards.					
	Parameters	Emission Standard	Sampling Duration			
	Cd + Th + their compounds	0.05 mg/Nm <sup>3</sup>	Sampling time anywhere between 30 minutes and 8 hours			
	CO	100 mg/Nm <sup>3</sup>	30 minutes			
	CO	50 mg/Nm <sup>3</sup>	Standard refers to daily average value			
	HCl	50 mg/Nm <sup>3</sup>	30 minutes			
	HF	4 mg/Nm <sup>3</sup>	30 minutes			
	Hg and Its compounds	0.05 mg/Nm <sup>3</sup>	Sampling time anywhere between 30 minutes and 8 hours			
	NOx (NO and NO2 expressed as NO2)	400 mg/Nm <sup>3</sup>	30 minutes			
	Particulates	50 mg/Nm <sup>3</sup>	30 minutes			
	Sb + As + Pb + Cr + Co + Cu + Mn + Ni + V + their compounds	0.5 mg/Nm <sup>3</sup>	Sampling time anywhere between 30 minutes and 8 hours			
	SO <sub>2</sub>	200 mg/Nm <sup>3</sup>	30 minutes			
	Total dioxins and furans	0.1 ng TEQ/ Nm <sup>3</sup>	6-8 hours sampling. Please refer guidelines for 17 concerned congeners for toxic equivalence values to arrive to total toxic equivalence.			
	Total Organic Carbon	20 mg/Nm <sup>3</sup>	30 minutes			
Note: All values of outlet parameters of Incinerator shall be corrected to 11% oxygen on dry basis.						
4.2	The process emission through various stacks / vent of reactors, process, vessel shall conform to the following standards.			Complied. Unit is following the given condition.		
Sr. No.	Stack ID/Stack Attached to	Name of Process/Plant	Air Pollution Control Measure (APCM)		Stack Height (m) (From G.L)	Parameter & Permissible Limit
1	44914 - Reaction Vessels	Stack attached to reactor of TMP Plant	Alkali Scrubber, Water Scrubber		15	Ammonia -175 mg/Nm <sup>3</sup>
2	8828 - Reaction Vessels	Stack attached to Sulphur Furnace	Alkali Scrubber, Water Scrubber		45	PM- 150 mg/Nm <sup>3</sup> SO <sub>2</sub> -40 mg/Nm <sup>3</sup> NO <sub>x</sub> - 25 mg/Nm <sup>3</sup> HCl- 20 mg/Nm <sup>3</sup>

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Sr. No.	Consent Condition Requirement						Compliance Status															
						Chlorine - 09 mg/Nm <sup>3</sup> H <sub>2</sub> S- 45 mg/Nm <sup>3</sup> CO- 150 mg/Nm <sup>3</sup>																
	3	44915- Reaction Vessels	Stack attached to reactor of PCl <sub>3</sub> Plant	Alkali Scrubber	15	HCl- 20 mg/Nm <sup>3</sup> Chlorine- 09 mg/Nm <sup>3</sup>																
	4	93982 - Reaction Vessels	Stack attached to Emergency vent of PCl <sub>3</sub>	Alkali Scrubber	15	HCl- 20 mg/Nm <sup>3</sup> Chlorine- 09 mg/Nm <sup>3</sup>																
4.3	Unit shall adhere to stringent air pollutants standards i.e. 80% of existing flue gas and process emission standards in the CPA. <table><tr><th colspan="3">Flue gas Emission Standards</th></tr><tr><th>Parameters</th><th>Existing</th><th>Revised norms (80% of existing)</th></tr><tr><td>PM</td><td>150 mg/Nm<sup>3</sup></td><td>120 mg/Nm<sup>3</sup></td></tr><tr><td>SO<sub>2</sub></td><td>100 mg/Nm<sup>3</sup></td><td>80 mg/Nm<sup>3</sup></td></tr><tr><td>NO<sub>x</sub></td><td>50 mg/Nm<sup>3</sup></td><td>40 mg/Nm<sup>3</sup></td></tr></table> a. Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals. b. 24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.						Flue gas Emission Standards			Parameters	Existing	Revised norms (80% of existing)	PM	150 mg/Nm <sup>3</sup>	120 mg/Nm <sup>3</sup>	SO <sub>2</sub>	100 mg/Nm <sup>3</sup>	80 mg/Nm <sup>3</sup>	NO <sub>x</sub>	50 mg/Nm <sup>3</sup>	40 mg/Nm <sup>3</sup>	Complied
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NO <sub>x</sub>	50 mg/Nm <sup>3</sup>	40 mg/Nm <sup>3</sup>																				
4.4	Following air pollution control measures shall be provided for the flue gas emission sources like Boiler, Thermic Fluid Heaters etc. (As Applicable) <table><tr><th colspan="2">Stipulated APCM in Red category industrial units of CPA</th></tr><tr><th>Steam generation capacity (in TPH)</th><th>Type of APCM</th></tr><tr><td>Less than 1</td><td>Multi Cyclone</td></tr><tr><td>1 to &lt; 3</td><td>Multi Cyclone + Water Scrubber</td></tr><tr><td>3 to &lt; 6</td><td>Bag filter + Water Scrubber</td></tr><tr><td>≥ 6</td><td>ESP + Water Scrubber</td></tr></table>						Stipulated APCM in Red category industrial units of CPA		Steam generation capacity (in TPH)	Type of APCM	Less than 1	Multi Cyclone	1 to < 3	Multi Cyclone + Water Scrubber	3 to < 6	Bag filter + Water Scrubber	≥ 6	ESP + Water Scrubber	Noted Boiler is equipped with dust collector.			
Stipulated APCM in Red category industrial units of CPA																						
Steam generation capacity (in TPH)	Type of APCM																					
Less than 1	Multi Cyclone																					
1 to < 3	Multi Cyclone + Water Scrubber																					
3 to < 6	Bag filter + Water Scrubber																					
≥ 6	ESP + Water Scrubber																					
4.5	Unit shall provide at least two stage scrubbing system of appropriate media for the control of the process gas emission.						All the scrubbers are equipped with double stage scrubbing system with appropriate media.															

## EC Compliance Report

CCA No: AWH-86147, Date of issue-23 <sup>rd</sup> -May-2017 and valid up to 4 <sup>th</sup> -March-2022, CCA amendment dated 09/08/2017 having CTO no.: GPCB/ANK/CCA-115/ID-15016/419703, CCA amendment no.: AWH-94667 dated 31/08/2018, CCA amendment order no.: AWH-104863 issued vide letter no. GPCB/ANK/CCA-115 (13) ID-15016/529725, dated 10/12/2019		
Sr. No.	Consent Condition Requirement	Compliance Status
4.6	Unit shall install and commission Continuous Emission Monitoring System – CEMS (as per CPCB guidelines for relevant parameters) which shall be connected with GPCB / CPCB server (In case of large and medium red category industries)	Complied
4.7	All common facilities shall install CEMS (as per CPCB guidelines for relevant parameters) which shall be connected with GPCB / CPCB server to the stacks provided with Common Multiple Effect Evaporator (CMEE), Common Spray Dryer, Common incinerator etc.	Not Applicable
4.8	The unit shall adhere to Sector specific guidelines/ SOP published by GPCB/ CPCB from time to time for effective fugitive emission control. (like guidelines for: Stone crushing units, Coal handling units, spent solvent handling and management, spent acid management, Decontamination of drums, containers etc.)	Noted. All the applicable SOP's published by GPCB/CPCB for effective fugitive emissions will be followed
4.9	Unit shall take adequate measures to control odour nuisance from the industrial activities which may include measures like- use of masking agent with atomizer system (water curtain), closed/ automatic material handling system, containment of the odour vulnerable areas etc.	Noted Odor control measures are in place to control odor nuisance from specific activities.
4.10	Unit shall not use Pet-coke, furnace oil, LSHS as a fuel.	Pet-coke, furnace oil, LSHS are not used as a fuel. Only Natural gas and H.S.D. is used
4.11	Unit shall adopt sectoral Best available Technology-BAT (Like Use of Introduction Furnace, Electric Arc Furnace instead of Cupola furnace in foundry industry, Caustic Recovery System in Cotton Textile units etc.	Not applicable.
4.12	Unit shall provide green belt of 40% of the plot area, using concept of the social forestry and development of green belt outside project premises in adjacent areas.	Green belt development is in progress outside premises by acquiring land given by GIDC. 33% green belt of the total plot area is already available within premises Details are attached as below.
4.13	Unit shall provide Wall to Wall carpeting in vehicle movement areas within premises to avoid dusting.	Wall to wall carpeting in vehicle movement areas is made available to avoid dusting.
4.14	Unit shall operate industrial plant / air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the standards specified as above.	Complied.
4.15	The consent to operate the industrial plant shall lapse if at any time the parameters of the gaseous emission are not within the tolerance limits specified as above.	Noted



## EC Compliance Report

CCA No: AWH-86147, Date of issue-23 <sup>rd</sup> -May-2017 and valid up to 4 <sup>th</sup> -March-2022, CCA amendment dated 09/08/2017 having CTO no.: GPCB/ANK/CCA-115/ID-15016/419703, CCA amendment no.: AWH-94667 dated 31/08/2018, CCA amendment order no.: AWH-104863 issued vide letter no. GPCB/ANK/CCA-115 (13) ID-15016/529725, dated 10/12/2019							
Sr. No.	Consent Condition Requirement						Compliance Status
4.16	Unit shall provide portholes, ladder, platform etc. at chimney(s) for monitoring the air emissions and the same shall be open for inspection to / and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted / displayed to facilitate identification.						Complied.
4.17	Unit shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB(a) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6 a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.						Complied.
4.18	All efforts shall be made to control VOC emissions and odor problem, if any.						Complied.
5.	AUTHORISATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES						
5.1	Unit shall comply with provisions of Hazardous & Other Wastes (Management & Transboundary Movement) Rules-2016						Noted the given condition
5.2	The condition No. 6.2 under authorization for Hazardous & Other Wastes of the CCA order No.: AWH-86147, issued vide letter no. GPCB/ANK/CCA-115(9)/ ID-15016/415086, dated 16/06/2017 and further amended dated 14/08/2017 is amended and shall now be read as under.						Complied.
A. Detail of Hazardous & other wastes by unit:							
Sr. No.	Waste	Existing	Proposed	Total Quantity/Year	Catg. No.	Facility	
1.	ETP Sludge	1800 MT	--	1800 MT	34.3	Collection, Storage, Transportation Disposal at TSDF – BEIL & SEPPL	
2.	Used oil	11.04 MT	--	11.04 MT	5.1	Collection, Storage, Transportation. Disposal by selling to Registered re-refiners.	
3.	Discarded Container Bags/liners	2,41,440 Nos. OR 1943 MT	--	2,41,440 Nos. OR 1943 MT	33.3	Collection, Storage, ,Decontamination. Sale to authorized decontamination facility/reuse. Bags/liners to BEIL & SEPPL	

## EC Compliance Report

CCA No: AWH-86147, Date of issue-23 <sup>rd</sup> -May-2017 and valid up to 4 <sup>th</sup> -March-2022, CCA amendment dated 09/08/2017 having CTO no.: GPCB/ANK/CCA-115/ID-15016/419703, CCA amendment no.: AWH-94667 dated 31/08/2018, CCA amendment order no.: AWH-104863 issued vide letter no. GPCB/ANK/CCA-115 (13) ID-15016/529725, dated 10/12/2019							
Sr. No.	Consent Condition Requirement						Compliance Status
	4.	Process waste Residue	12821 MT	--	12821 MT	29.1	Collection, Storage, Transportation & disposal to common TSDF facility of BEIL/SEPPL/GSPL-Palsana/RSPL/Co-processing in cement industries.
	5.	Solid waste/Evaporation salt	9259 MT	--	9259 MT	29.1	Collection, Storage, Transportation & disposal to common TSDF facility of BEIL/ SEPPL/ GSPL Palsana/ RSPL/ Co-processing to cement industries.
	6.	Recovered Sulphur	4320 MT	--	4320 MT	D-1	Collection, Storage, Transportation & disposal to common TSDF facility of BEIL & SEPPL
	7.	Sodium Hydro sulfide (30%)	--	3240 MT	3240 MT	--	Collection, Storage, Transportation & sold to actual enduser is having permission under Rule 9 & after making MoU.
	8.	Hydrochloric acid (30%)	--	4152 MT	4152 MT	B-15	Collection, Storage, Transportation & sold to actual enduser is having permission under Rule 9 & after making MoU.

## EC Compliance Report

CCA No: AWH-86147, Date of issue-23 <sup>rd</sup> -May-2017 and valid up to 4 <sup>th</sup> -March-2022, CCA amendment dated 09/08/2017 having CTO no.: GPCB/ANK/CCA-115/ID-15016/419703, CCA amendment no.: AWH-94667 dated 31/08/2018, CCA amendment order no.: AWH-104863 issued vide letter no. GPCB/ANK/CCA-115 (13) ID-15016/529725, dated 10/12/2019							
Sr. No.	Consent Condition Requirement						Compliance Status
	9.	Phosphoric Acid	--	1460 MT	1460 MT	B-15	Collection, Storage, Transportation & sold to actual enduser is having permission under Rule 9 & after making MoU.
	10.	Sodium Bisulphite powder	--	2250 MT	2250 MT	--	Collection, Storage, Transportation & sold to actual enduser is having permission under Rule 9 & after making MoU.
	11.	Sodium Sulphite 30%	--	3775 MT	3775 MT	--	Collection, Storage, Transportation & sold to actual enduser is having permission under Rule 9 & after making MoU
	12.	Sodium Bisulphite solution (30%)	--	7440 MT	7440 MT	--	Collection, Storage, Transportation & sold to actual enduser is having permission under Rule 9 & after making MoU
5.3	The authorization is granted to operate a facility as above						Noted the given condition
5.4	The authorization shall be in force for a period upto 04/03/2022						Noted the given condition
5.5	The authorization is subject to the conditions stated below and such other conditions as may be specified in the rules from time to time under the Environment (Protection) Act- 1986						Noted. Unit will comply with the given condition
5.6	Unit shall strictly carry out handling, storage and disposal of fly-ash, slag, red-mud, de-inking sludge etc. (High Volume- Low Effect Wastes) as per prevailing guidelines and its disposal at designated locations approved by the Board.						Handling, storage and disposal of fly ash is done as per guidelines at designated locations.
5.7	Industry shall dispose its hazardous wastes through co-processing, pre-processing to the extent possible prior its disposal to incineration/ landfill as per provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.						Complied
5.8	Industry shall strictly comply with all the measures specified in guidelines for spent solvent management, spent acid management, and other guidelines/ directions published from time to time by GPCB and/ or CPCB, etc.						Complied

## EC Compliance Report

CCA No: AWH-86147, Date of issue-23 <sup>rd</sup> -May-2017 and valid up to 4 <sup>th</sup> -March-2022, CCA amendment dated 09/08/2017 having CTO no.: GPCB/ANK/CCA-115/ID-15016/419703, CCA amendment no.: AWH-94667 dated 31/08/2018, CCA amendment order no.: AWH-104863 issued vide letter no. GPCB/ANK/CCA-115 (13) ID-15016/529725, dated 10/12/2019		
Sr. No.	Consent Condition Requirement	Compliance Status
5.9	Unit shall carry out transportation of hazardous waste through GPS mounted vehicles only	All the transportation of hazardous wastes will be done through GPS mounted vehicles only.
<b>6</b>	<b>TERMS AND CONDITIONS OF AUTHORISATION :</b>	
6.1	The authorized person shall comply with the provisions of the Environment (Protection) Act-1986, and the rules made there under.	Complied.
6.2	The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Gujarat Pollution Control Board.	Noted
6.3	The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization.	Noted
6.4	Any un authorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.	Noted
6.5	The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.	Complied.
6.6	The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty".	Noted
6.7	It is the duty of the authorized person to take prior permission of the Gujarat Pollution Control Board to close down the facility.	Noted
6.8	The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean – up operation.	Hazardous and other wastes are not imported.
6.9	The record of consumption and fate of the imported hazardous and other wastes shall be maintained.	Hazardous and other wastes are not imported.
6.10	The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.	Noted
6.11	The importer or exporter shall bear the cost of import or export and mitigation of damages, if any.	Hazardous and other wastes are not imported or exported.
6.12	An application for the renewal of an authorization shall be made as laid down under Hazardous & Other Wastes (Management and Transboundary Movement) Rules – 2016.	Noted
6.13	Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.	Noted
6.14	Annual return shall be filed by June 30 <sup>th</sup> for the period ensuring 31 <sup>st</sup> March of the year.	Complied.
6.15	Unit shall have to display the relevant information with regard to hazardous waste as indicated in the Court's order in W. P. No. 657 of 1995	Complied.

## EC Compliance Report

CCA No: AWH-86147, Date of issue-23 <sup>rd</sup> -May-2017 and valid up to 4 <sup>th</sup> -March-2022, CCA amendment dated 09/08/2017 having CTO no.: GPCB/ANK/CCA-115/ID-15016/419703, CCA amendment no.: AWH-94667 dated 31/08/2018, CCA amendment order no.: AWH-104863 issued vide letter no. GPCB/ANK/CCA-115 (13) ID-15016/529725, dated 10/12/2019		
Sr. No.	Consent Condition Requirement	Compliance Status
	dated 14 <sup>th</sup> October 2003.	
6.16	Unit shall submit report of compliance of the conditions of EC every year to the Board prepared by third party.	Noted. It will be implemented.
6.17	Unit shall enhance CER fund allocation to at least 1.5 times the slabs given in the OM dated 01.05.2018 for SPA and 2 times for CPA in case of Environmental Clearance.	Noted. It will be implemented

## Six Monthly EC Compliance Report

### Annexure 2 - COPY OF EC ADVERTISEMENT

#### **PUBLIC NOTICE ENVIRONMENTAL CLEARANCE**

It is hereby informed that the Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, Jorbagh Road, New Delhi, has accorded Environmental Clearance for proposed expansion in existing premises for Pesticidies and Pesticide Specific Intermediates manufacturing unit of M/s.Cheminova India Limited (Intermediate Division) at Plot no. (27+28)/A Notified GIDC Industrial Estate, Panoli-394 116, Ta: Ankleshwar, Dist.Bharuch, State: Gujarat,Vide letter dated 31/12/2019 [F.NO IA-J-11011/53/2018-IA-II(I)] under the provision of EIA Notification dated 14th September 2006.

Copies of Clearance Letter are available on Website of MoEF&CC (PARIVESH)- <http://moef.nic.in>

Dated 09/01/2020

Authorized Signatory--SD-

જાહેર સૂચના	પર્યાવરણીય મંજૂરી
<p>આ સાથે જણાવવામાં આવે છે કે મિનિસ્ટ્રી ઓફ એન્વાયરમેન્ટ, ફોરેસ્ટ અને ક્લાઇમેટ ચેન્જ દ્વારા મે. કેમિનોવા ઇન્ડિયા લિમિટેડ (ઇન્ટરમીડિયેટ ડિવિઝન) પ્લોટ નંબર (૨૭+૨૮)/A, નોટીફાઇડ ગ્રુ.આઇ.ડી.સી. ઇન્ડસ્ટ્રીયલ એસ્ટેટ, પાનોલી-૩૯૪ ૧૧૬, તાલુકા: અંકલેશ્વર, ડિસ્ટ્રિક્ટ. ભરૂચ, સ્ટેટ:ગુજરાત ખાતેના હાલના એકમ પર સૂચિત પેસ્ટીસાઇડ્સ તથા તેના પેસ્ટીસાઇડ સ્પેસિફિક ઇન્ટરમીડિયેટ્સ ના વિસ્તરણ માટેની પર્યાવરણીય મંજૂરી ડિસેમ્બર, ૩૧, ૨૦૧૯ ના પત્ર દ્વારા [ફાઇલ ક્રમાંક IA-J-11011/53/2018-IA-II(I)] ઇ.આઇ.એ. નોટિફિકેશન તારીખ ૧૪ સપ્ટેમ્બર ૨૦૦૬ની જોગવાઈ હેઠળ આપેલ છે.</p> <p>પર્યાવરણીય મંજૂરીના પત્રની નકલ MoEF&amp;CC (PARIVESH) ની વેબસાઇટ (<a href="http://moef.nic.in">http://moef.nic.in</a>) ઉપર ઉપલબ્ધ છે.</p> <p>તારીખ: ૦૮/૦૧/૨૦૨૦</p>	
	સહી:--

## EC Compliance Report

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

#### EC copy



F. No. IA-J-11011/53/2018-IA-II(I)  
Government of India  
Ministry of Environment, Forest and Climate Change  
(IA-II Section)

By Speed Post/Online

Indira Paryavaran Bhawan  
Jorbagh Road, New Delhi - 3

Dated: 31<sup>st</sup> December, 2019

To

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

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

Sir,

This has reference to your proposal No. IA/GJ/IND2/88017/1995 dated 18<sup>th</sup> January, 2019, submitting the EIA/EMP report on the above subject matter.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for expansion of pesticides and Pesticide specific intermediates from 19705 TPA to 47681 TPA by M/s Cheminova India Limited (Intermediate Division) in an area of 149163.17 sqm at Plot No. (27+28)/A, GIDC Industrial Estate, Panoli, Taluka Ankleshwar, District Bharuch (Gujarat).

3. The details of products are as under:-

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

EC for M/s Cheminova India Limited (Intermediate Division)

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## EC Compliance Report

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



## EC Compliance Report

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

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

5. There are no National parks, Wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km from the project site. Ukai Canal flows at a distance of 1.66 km in west direction.

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

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

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

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

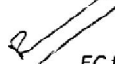
7. The project/activities are covered under category A of item 5(b) 'Pesticides industry and Pesticide specific intermediates' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry.

8. Standard terms of reference (ToR) for the project was granted on 23<sup>rd</sup> March, 2018. Public hearing is exempted in accordance with the Ministry's OM dated 27<sup>th</sup> April 2018, as the project site is located inside the notified industrial area.

9. The proposal for environmental clearance was considered by the EAC (Industry-2) in its meetings held on 8-9<sup>th</sup> April, 2019 and 26-28 June, 2019 in the Ministry, wherein the project proponent and their accredited consultant M/s Siddhi Green Excellence Pvt Ltd presented the EIA/EMP report. The Committee found the EIA/EMP report complying with the terms and conditions of the ToR, and recommended the proposal for environmental clearance to the project with certain conditions.

10. The proposal was further examined in the Ministry in accordance with the Ministry's Office Memorandum dated 31<sup>st</sup> October 2019 and Ministry's communication dated 24<sup>th</sup> October 2019 regarding compliance of Hon'ble NGT order dated 19.8.2019 (published on 23.8.2019) in OA No. 1038/2018.

11. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for **Expansion of Pesticides and Pesticide Specific Intermediates from 19705 TPA to 47681 TPA by M/s Cheminova India Limited (Intermediate Division) at Plot No.(27+28)/A, GIDC Industrial Estate, Panoli, Taluka Ankleshwar, District Bharuch (Gujarat)**, under the provisions of the EIA Notification, 2006, read with

 EC for M/s Cheminova India Limited (Intermediate Division)

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subsequent amendments therein, subject to compliance of the terms and conditions as environmental safeguards, as under:-

- (i) Consent to Establish/Operate (CTE/CTO) for the project shall be obtained from the State Pollution Control Board (SPCB) as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974, and the SPCB shall follow the mechanism/protocol issued by the Ministry vide letter no. Q-16017/38/2018-CPA dated 24<sup>th</sup> October, 2019 and forwarded by Central Pollution Control Board vide letter dated 25<sup>th</sup> October, 2019 to the SPCB's, while issuing the CTE/CTO for the project, for improvement of environmental quality in the area.
- (ii) Zero Liquid Discharge shall be ensured including existing facility and the proposed expansion facility and no waste/treated water shall be discharged outside the premises.
- (iii) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.
- (iv) National Emission Standards for Pesticides Manufacturing Industry issued by the Ministry vide G.S.R.446(E) dated 13<sup>th</sup> June, 2011, as amended from time to time, shall be followed.
- (v) No pesticides/chemicals banned by the Ministry of Agriculture and Farmers Welfare, or having LD<sub>50</sub><100 mg/kg shall be produced. Also, no raw material/solvent prohibited by the concerned regulatory authorities from time to time, shall be used for production of pesticides.
- (vi) To control source and the fugitive emissions (at 99.98%), suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
- (vii) Solvent management shall be carried out as follows:
  - (a) Reactor shall be connected to chilled brine condenser system.
  - (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.
  - (c) The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery.
  - (d) Solvents shall be stored in a separate space specified with all safety measures.
  - (e) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.
  - (f) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.
  - (g) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (viii) Total fresh water requirement shall not exceed 764 cum/day to be met from GIDC water supply. Prior permission in this regard shall be obtained from the concerned regulatory authority.



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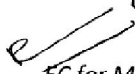
- (ix) Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system
  - (x) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.
  - (xi) Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
  - (xii) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act, 1989.
  - (xiii) The company shall undertake waste minimization measures as below:-
    - (a) Metering and control of quantities of active ingredients to minimize waste.
    - (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
    - (c) Use of automated filling to minimize spillage.
    - (d) Use of Close Feed system into batch reactors.
    - (e) Venting equipment through vapour recovery system.
    - (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
  - (xiv) The green belt of at least 5-10 m width shall be developed in nearly 40% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. In addition, the project proponent shall develop greenbelt outside the plant premises also such as avenue plantation, plantation in vacant areas, social forestry etc.
  - (xv) As committed, Fund allocation for the Corporate Environment Responsibility (CER) shall be 5 % of the total project cost. Item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.
  - (xvi) Safety and visual reality training shall be provided to employees.
  - (xvii) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
  - (xviii) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
  - (xix) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
  - (xx) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server.
- For online continuous monitoring of effluent, the unit shall install web camera

with night vision capability and flow meters in the channel/drain carrying effluent within the premises.

- (xxi) Mitigating measures suggested during process safety and risk assessment studies shall be undertaken accordingly.

**11.1.** The grant of environmental clearance is subject to compliance of other general conditions, as under:-

- (i) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board, Central Pollution Control Board, State Government and any other statutory authority.
- (ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (iii) The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- (iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16<sup>th</sup> November, 2009 shall be followed.
- (v) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (vi) The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.
- (vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- (viii) The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (ix) The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. ESC activities shall be undertaken by involving local villages and administration.

  
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- (x) The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- (xi) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
- (xii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (xiii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- (xiv) The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
- (xv) The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <http://moef.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
- (xvi) The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.

**12.** The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.



*EC for M/s Cheminova India Limited (Intermediate Division)*

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13. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

14. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

15. The above conditions will be enforced, *inter alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

16. This issues with approval of the competent authority.

(Dr. R. B. Lal)  
वेदमनिक ई/डुवमनिक ई  
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय  
Min. of Environment, Forest and Climate Change  
भारत सरकार, नई दिल्ली  
Govt. of India, New Delhi  
**Scientist E**

**Copy to: -**

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

(Dr. R. B. Lal)  
**Scientist E**



# EC Compliance Report

CC&A/CTO-Amendment Copy



## GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar 382 010

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Fax : (079) 23232156

Website : www.gpcb.gov.in

By R.P.A.D.

CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A - Amendment)

CCA AMENDMENT NO: AWH - 104863

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

DT: 19/12/2019

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

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

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

Sir,

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

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

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

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8.	Acid based products [2-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	--	150	No change
9.	Amide group based products [Pretilachlor (H), Captan (F), Cymoxanil (F), Beflubutamide (H), Pethoxamide (H), Carboxin (F), Flubendamide (I), Chlorantraniliprole (I), Thiaflusamide (F), Zoxamide (F), Flufenacet (H), 2 Aminosulfonyl-N-N- Dimethylnicotinamide (SNA) (int), 2-(Methoxycarbonyl) thiophene thiophene-3 Sulfonamide (MST) (Int)] etc.	150	--	150	No change
10.	Aniline group Bases products [Pendimethalin (H), Fluazinam (F), Metalaxyl (F), Famoxadone (F)] etc.	1200	- 1200	--	Discontinue Product
11.	Azine group based product Fenpyroximate (I), Metribuzin (H), Pymetrozine (I), Armitraz (I), Indoxacarb (I), Clofentezine (I), 2 Methoxy- 4 - Methyl-6- Methylamino-1,3,5-Triazine (MMMT) (Int)] etc.	300	--	300	No change
12.	Azole group based products [Fipronil (I), Hexaconazole (F), Propiconazole (F), Difenoconazole (F), Tricyclazole (F), Myclobutanil (F), Florasulam (H), Tebuconazole (F), Flusilazole (F), Tebuconazole (F), Tridemefon, Paclobutrazol (F), Thiamethoxam (I),	200	--	200	No change



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

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

## 2. SPECIFIC CONDITIONS:-

- a. Total production shall not exceed 19615 MT/Month in any case.
- b. There shall be no change in mode of disposal of wastewater.
- c. There shall be no change in fuel consumption, flue gas emission and process gas emission.
- d. There shall be no change in Hazardous waste quantity / category.
- e. Unit shall sell out their hazardous waste to authorized end-users who is having authorization with valid CCA and rule 9 permission to receive this waste. Unit shall make MoU with such authorized end-users and submit MoU at time of application of CCA.
- f. All the efforts shall be made to send hazardous waste to cement industry for Co- processing first & there after it shall be disposed through other option.
- g. Unit shall follow spent solvent management guideline framed by board and shall make MoU with outside distillation units, if any. Also submit the prescribed forms as per guideline.
- h. There shall not be increase in pollution load due to proposed change in product mix.
- i. There shall not be any change in plant building, equipments & machineries to manufacture the proposed new products after change in product mix.
- j. In the case of submission of the false or misleading data, this CTE amendment will be forfeited immediately.
- k. CCA is granted with a condition to comply guideline to be issued by Ministry of Environment, Forest and Climate Change in the matter of O.A.No.1038/2018 and Hon.NGT order dated: 10/07/2019 and 23/08/2019.

## IA) Additional conditions under Air Act:

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



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<b>Flue gas Emission Standards</b>		
<b>Parameters</b>	<b>Existing</b>	<b>Revised norms (80% of Existing)</b>
PM	150 mg/Nm <sup>3</sup>	120 mg/Nm <sup>3</sup>
SO <sub>2</sub>	100 PPM	80 PPM
NO <sub>x</sub>	50 PPM	40 PPM

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

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

- c) Unit shall provide at least two stage scrubbing system of appropriate media for the control of the process gas emission.
- d) Unit shall install and commission Continuous Emission Monitoring System- CEMS (as per CPCB guidelines for relevant parameters) which shall be connected with GPCB/ CPCB server (In case of large and medium red category industries)
- e) All common facilities shall install CEMS (as per CPCB guidelines for relevant parameters) which shall be connected with GPCB/CPCB server to the Stacks provided with Common Multiple Effect Evaporator (CMEE), Common Spray Dryer, Common incinerator etc.
- f) The unit shall adhere to Sector specific guidelines/ SOP published by GPCB / CPCB from time to time for effective fugitive emission control. (like guidelines for: Stone crushing units, Coal handling units, spent solvent handling and management, spent acid management, Decontamination of drums, containers etc.)
- g) Unit shall take adequate measures to control odour nuisance from the industrial activities which may include measures like- use of masking agent with atomizer system (water curtain), closed / automatic material handling system, containment of the odour vulnerable areas etc.
- h) Unit shall not use Pet-coke, furnace oil, LSHS as a fuel.
- i) Unit shall adopt sectoral Best Available Technology-BAT (Like Use of Induction Furnace, Electric Arc Furnace instead of Cupola furnace in foundry industry, Caustic Recovery System in Cotton Textile units etc.)
- j) Unit shall provide green belt of 40% of the plot area, using concept of the social forestry and development of green belt outside project premises in adjacent areas.
- k) Unit shall provide Wall to Wall carpeting in vehicle movement areas within premises to avoid dusting.

**[B] Additional conditions under the Water Act:**

- a) Unit shall only use treated effluent for preparation of lime and other slurry in ETP. No fresh water shall be utilized in ETP.

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- b) In the case, if the Industry is not a member of CETP and domestic waste water generation is more than 10 KLPD, industry shall install STP of adequate capacity and treated sewage shall be reused / recycled to the maximum extent.
- c) In case of Large and Medium Red Category industry, the unit shall install system for continuous monitoring of effluent quality / quantity as per CPCB guidelines for relevant parameters (like pH, Flow, Temperature, TOC/COD, NH3-N etc.) and shall be connected to GPCB server. In case, if the industry is a member of CETP, unit shall install flow meter.
- d) If the water consumption of the unit is more than 50 KLPD, Unit shall submit detailed water harvesting plan (off site).
- e) The unit shall explore Techno-Economic feasibility of Zero Liquid Discharge (ZLD) and if feasible, ZLD should be adopted.

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

- a) Unit shall strictly carry out handling, storage and disposal of fly-ash, slag, red-mud, deinking sludge etc. (High Volume- Low Effect Wastes) as per prevailing guidelines and its disposal at designated locations approved by the Board.
- b) Industry shall dispose its hazardous wastes through co-processing, pre-processing to the extent possible prior its disposal to incineration/ landfill as per provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
- c) Industry shall strictly comply with all the measures specified in guidelines for spent solvent management, spent acid management, and other guidelines/directions published from time to time by GPCB and/or CPCB, etc.
- d) Unit shall carry out transportation of hazardous wastes through GPS mounted vehicles only.

**[D] Other General Conditions:**

- a) Unit shall submit report of compliance of the conditions of EC every year to the Board prepared by third party.
- b) Unit shall enhance CER fund allocation to at least 1.5 times the slabs given in the OM dated 01.05.2018 for SPA and 2 times for CPA in case of Environmental Clearance.

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

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

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

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

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

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





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

For and on behalf of  
**GUJARAT POLLUTION CONTROL BOARD**

(A.V.SHAH)

SR. ENVIRONMENT ENGINEER

Outward No: 529725, 10/12/2019

**Clean Gujarat Green Gujarat**  
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# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar 382 010

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By R.P.A.D.

CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A - Amendment)

**CCA AMENDMENT NO: AWH - 94667**

NO: GPCB/ANK/CCA- 115(10)/ID-15016/

DT: \_\_/08/2018

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

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

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

Sir,

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

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

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

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





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

2.

## SPECIFIC CONDITIONS:-

- Total production shall not exceed 19705 MT/Year in any case.
- There shall not be increase in pollution load due to proposed change in product mix.
- There shall not be any change in plant building, equipments & machineries to manufacture the proposed new products after change in product mix.
- All the efforts shall be made to send hazardous waste to cement industry for Co-processing first & there after it shall be disposed through other option.

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- e. There shall be no change in water consumption, wastewater generation and their mode of disposal.
- f. There shall be no change in fuel consumption, flue gas emission and process gas emission.
- g. As per submission calcium chloride (30%):1000 MT/Year, Ammonium Chloride Sol(16%):15,300 MT/Year, Liq. Ammonia(20%):3600 MT/Year is not produced since 2015 due to not manufacture TMP so whoever unit will manufacture TMP, unit shall obtain CCA Amendment for the same with all required document like MoU with enduser & Rule-9 permission of enduser.

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

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

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

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

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



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

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

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

For and on behalf of  
GUJARAT POLLUTION CONTROL BOARD

  
(G.H. TRIVEDI)  
SR. ENVIRONMENT ENGINEER

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Outward No: 467347, 31/08/2017



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By R.P.A.D.

## CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A - Amendment)

NO: GPCB/ANK/CCA-115/ID-15016/

Date: 09/08/2017

Amendment in CCA order No: AWH-86147, issued dated 17/06/2017 for revision of effluent discharge norms.

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

SUB: Amendment in Consolidated Consent & Authorization (CC&A) under various Environmental Acts/ Rules - Reg. revision of FETP inlet norms.

REF: (1) Your previous CCA No. AWH-86147, dated 17/06/2017

Sir,

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

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

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

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

### A. CONDITION UNDER THE WATER ACT:

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

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

(P.T.O.)



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Sr. No.	PARAMETERS	PERMISSIBLE LIMIT
14	Chlorides (as Cl)	1000 mg/l
15	Sulphates (as SO <sub>4</sub> )	1000 mg/l
16	Cyanide (as CN)	0.2 mg/l
17	Fluoride (as F)	15 mg/l
18	Hexavalent Chromium (as Cr+6)	0.1 mg/l
19	Total Chromium (as Cr)	2 mg/l
20	Copper (as Cu)	3 mg/l
21	Nickel (as Ni)	3 mg/l
22	Zinc (as Zn)	15 mg/l
23	Iron (as Fe)	3 mg/l
24	Manganese (as Mn)	2 mg/l
25	Mercury (as Hg)	0.01 mg/l
26	Lead (as Pb)	0.1 mg/l
27	Arsenic (as As)	0.2 mg/l
28	Venedium (as V)	0.2 mg/l
29	Cadmium (as Cd)	0.05 mg/l
30	Selenium (as Se)	0.05 mg/l
31	Bio-assay test	90 % Survival of fish after 96 hours in 100 % effluent
32	Insecticides/ Pesticides	Absent

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

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

For and on behalf of  
GUJARAT POLLUTION CONTROL BOARD

*D.M. Thaker*  
9/8/17  
(D.M.THAKER)  
ENVIRONMENT ENGINEER

Outward No:419703,09/08/2017

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By R.P.A.D.

### CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A)

CCA NO:AWH-86147

NO: GPCB / ANK / CCA- 115(9)/ ID- 15016/ 415086

DT: 16/6/2017

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

And whereas Board has received consolidated application dated 05/03/2017 and inward No.118626 for the consolidated consent and authorization (CC & A) of this Board under the provisions / rules of the aforesaid Acts, Consolidated Consent & Authorization is hereby granted as under.

#### CONSOLIDATED CONSENT AND AUTHORISATION:

(Under the provisions / rules of the aforesaid Environmental Acts)

TO,

✓ M/s. Cheminova India Ltd( Intermediate Div )

PLOT NO: 27,28

GIDC ESTATE:Panoli

TALUKA: Ankleshwar

DIST- Bharuch - 394116,Gujarat,India

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

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

Sr	Products	CTE Qty	Applied CCA Qty	Granted CCA Qty	Unit Per Mth	CAS No.	Remarks
I	ACID BASED PRODUCTS (2-BROMOBUTYRIC ACID (INT), AMINO ACID (INT), ETHYL 2-(4-HYDROXY PHENOXY) PROPIONATE (O-HPPA) (INT), THIOCYCLAM (I), BISPYRIBAC-SODIUM (H), PYRITHIOBAC-SODIUM (H), METHOXY AMINE HYDROCHLORIDE (INT), 2-HYDROXYPHENYL ACETIC ACID (HPAA) (INT))ETC.	32.50	0.00	12.50	Metric Tonne		Either individual or total production of this group products shall not exceed 150 MT/Annum

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

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

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Sr	Products	CTE Qty	Applied CCA Qty	Granted CCA Qty	Unit Per Mth	CAS No.	Remarks
12	UREA GROUP BASED PRODUCT [BUPROFEZIN (I), LUFENURON (I), LINURON (H), DIAFENTHIURON (I), DIURON (H), NOVALURON (I), CHLORIMURON (INT), HEXYTHIAZOX (I), SPIROMESIFEN (I), AZIMSULFURON (H), SULFONYL UREAS (H)] ETC.	8.33	0.00	8.33	Metric Tonne		Either individual or total production of this group products shall not exceed 100 MT/Annum
13	PHENOL GROUP BASED PRODUCT [2-CYANOPHENOL (INT), 4-FLURO-3 TRILLUROMETHYL PHENOLE (INT)]ETC.	6.25	0.00	6.25	Metric Tonne		Either individual or total production of this group products shall not exceed 75 MT/Annum
14	TRIMETHYL PHOSPHITE (TMP) OR TRIETHYL PHOSPHITE (TEP)	141.66	0.00	141.66	Metric Tonne	000012 1-45-9	Total production of this product shall not exceed 1700 MT/Annum
15	DIETHYL THIO PHOSPHORYL CHLORIDE (DETPC)/NADETA	331.66	0.00	331.66	Metric Tonne	000252 4-04-1	Total production of this product shall not exceed 3980 MT/Annum
16	PHOSPHORUS PENTA SULPHIDE (P2S5)	283.33	0.00	283.33	Metric Tonne	000131 4-80-3	Total production of this product shall not exceed 3400 MT/Annum
17	CALCIUM CHLORIDE 30%	83.33	0.00	83.33	Metric Tonne	001004 3-52-4	Total production of this product shall not exceed 1000 MT/Annum
18	SODIUM SULFITE (30%)	314.58	0.00	314.58	Metric Tonne	000775 7-83-7	Total production of this product shall not exceed 3775 MT/Annum
19	AMMONIUM CHLORIDE SOLUTION 16%	1333.33	0.00	1333.33	Metric Tonne	001212 5-02-9	Total production of this product shall not exceed 16000 MT/Annum
20	HYDROCHLORIC ACID 30%	340.00	0.00	340.00	Metric Tonne	000764 7-01-0	Total production of this product shall not exceed 4080 MT/Annum
21	PHOSPHORIC ACID	121.66	0.00	121.66	Metric Tonne	000766 4-38-2	Total production of this product shall not exceed 1460 MT/Annum
22	SODIUM BISULPHITE POWDER	187.50	0.00	187.50	Metric Tonne	000763 1-90-5	Total production of this product shall not exceed 2250 MT/Annum
23	SODIUM HYDRO SULFIDE 30%	270.00	0.00	270.00	Metric Tonne	014065 0-84-6	Total production of this product shall not exceed 3240 MT/Annum
24	LIQUOR AMMONIA 20%	300.00	0.00	300.00	Metric Tonne	000766 4-41-7	Total production of this product shall not exceed 3600 MT/Annum
25	SODIUM BISULPHITE SOLUTION 30%	620.00	0.00	620.00	Metric Tonne	000763 1-90-5	Total production of this product shall not exceed 7440 MT/Annum
26	PHOSPHORUS TRICHLORIDE (PCL3) / PHOSPHOROUS OXY CHLORIDE (POCL3)	83.33	0.00	83.33	Metric Tonne	000771 9-12-2	Total production of this product shall not exceed 1000 MT/Annum

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## GUJARAT POLLUTION CONTROL BOARD

Paryavaran Bhavan, Sector-10/A, Gandhinagar - 382010

Phone: (079)23226295 , Fax: (079)23232156

Website: www.gpcb.gov.in

### **SPECIFIC CONDITIONS**

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

### **OTHER CONDITIONS**

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

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

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

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

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

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

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

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

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

Sr. No.	PARAMETERS	PERMISSIBLE LIMIT
1	Biochemical Oxygen Demand, BOD <sub>5</sub> , 27° C	Less than 20 mg/L
2	Total Suspended Solids	Less than 30 mg/L
3	Total Residual Chlorine	Minimum 0.5 ppm

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

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

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

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## GUJARAT POLLUTION CONTROL BOARD

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11	Ammonical Nitrogen (as N)	50 mg/L
12	Chlorides (as Cl)	600 mg/L
13	Sulphates (as SO <sub>4</sub> )	1000 mg/L
14	Cyanide (as CN)	0.2 mg/L
15	Fluoride (as F)	1.5 mg/L
16	Insecticides/Pesticides	Absent
17	Hexavalent Chromium (as Cr+6)	0.1 mg/L
18	Total Chromium (as Cr)	2 mg/L
19	Copper (as Cu)	2 mg/L
20	Nickel (as Ni)	3 mg/L
21	Zinc (as Zn)	5 mg/L
22	Mercury (as Hg)	0.01 mg/L
23	Lead (as Pb)	0.1 mg/L
24	Arsenic (as As)	0.2 mg/L
25	Cadmium (as Cd)	2 mg/L
26	Selenium (as Se)	0.05 mg/L
27	Total heavy metal	7 mg/L
28	Bio-assay test	90 % Survival of fish after 96 hours in 100 % effluent

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

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

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

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

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

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

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

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

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### GUJARAT POLLUTION CONTROL BOARD

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Website: [www.gpcb.gov.in](http://www.gpcb.gov.in)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

##### **SPECIFIC CONDITION**

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

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# EC Compliance Report



## GUJARAT POLLUTION CONTROL BOARD

Paryavaran Bhavan, Sector-10/A, Gandhinagar - 382010

Phone: (079)23226295 , Fax: (079)23232156

Website: www.gpcb.gov.in

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

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

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

Parameter	Emission Standard	Sampling Duration
Cd + Th + their compounds	0.05 mg/Nm <sup>3</sup>	Sampling time anywhere between 30 minutes and 8 hours.
CO	100 mg/Nm <sup>3</sup>	30 Minutes
CO	50 mg/Nm <sup>3</sup>	Standard refers to daily average value
HCl	50 mg/Nm <sup>3</sup>	30 Minutes
HF	4 mg/Nm <sup>3</sup>	30 Minutes
Hg and its compounds	0.05 mg/Nm <sup>3</sup>	Sampling time anywhere between 30 minutes and 8 hours.
NOX (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	400 mg/Nm <sup>3</sup>	30 Minutes
Particulates	50 mg/Nm <sup>3</sup>	30 Minutes
Sb + As + Pb + Cr + Co + Cu + Mn + Ni + V + their compounds	0.5 mg/Nm <sup>3</sup>	Sampling time anywhere between 30 minutes and 8 hours.
SO <sub>2</sub>	200 mg/Nm <sup>3</sup>	30 Minutes
Total dioxins and furans	0.1 ng TEQ/Nm <sup>3</sup>	6-8 hours sampling. Please refer guidelines for 17 concerned congeners for toxic equivalence values to arrive at total toxic equivalence.
Total Organic Carbon	20 mg/Nm <sup>3</sup>	30 Minutes

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### GUJARAT POLLUTION CONTROL BOARD

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

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

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

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

Sr. No.	Parameters	Permissible Limit (microgram /m <sup>3</sup> )	
		Annual	24 Hours Average
1.	Particulate Matter (PM10)	60	100
2.	Particulate Matter (PM2.5)	40	60
3.	Oxides of Sulphur (SO <sub>x</sub> )	50	80
4.	Oxides of Nitrogen (NO <sub>x</sub> )	40	80

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

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

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

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

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

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## GUJARAT POLLUTION CONTROL BOARD

Paryavaran Bhavan, Sector-10/A, Gandhinagar - 382010

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

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

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

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

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

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

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

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

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

### 6 TERMS AND CONDITIONS OF AUTHORISATION:

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

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- 6.2 The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the Gujarat Pollution Control Board.
- 6.3 The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
- 6.4 Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
- 6.5 The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.
- 6.6 The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"
- 6.7 It is the duty of the authorised person to take prior permission of the Gujarat Pollution Control Board to close down the facility.
- 6.8 The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
- 6.9 The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
- 6.10 The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.
- 6.11 The importer or exporter shall bear the cost of import or export and mitigation of damages if, any.
- 6.12 An application for the renewal of an authorisation shall be made as laid down under Hazardous & Other Wastes (Management and Transboundary Movement) Rules - 2016.
- 6.13 Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
- 6.14 Annual return shall be filed by June 30th for the period ensuring 31st March of the year.
- 6.15 Unit shall have to display the relevant information with regard to hazardous waste as indicated in the Court's order in W.P. No. 657 of 1995 dated 14th October 2003.

For and on behalf of  
GUJARAT POLLUTION CONTROL BOARD

*D.M. Thaker*  
16/6  
D. M. Thaker, Unit Head

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# EC Compliance Report

CTE Copy



## GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar 382 010

Phone : (079) 23222425

(079) 23232152

Fax : (079) 23232156

Website : www.gpcb.gov.in

By R.P.A.D.

**Consent to Establish (NOC) - Amendment**

**CTE AMENDMENT NO: CTE - 98963**

**NO: GPCB/ANK/CCA-115(12)/ID-15016/**

**DT: 30/03/2019**

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

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

**REF:** (1) Your NOC application No. 144183 dated 05/12/2018( for CTE - Change in Product mix ).

(2) CCA No. AWH - 86147 dated :16/06/2017.

(3) CCA Amendment No. AWH -94667 dated:31/08/2018.

Sir,

Without prejudice to the powers of this Board under the Water (Prevention and Control of Pollution) Act-1974, the Air (Prevention and Control of Pollution) Act-1981 and the Environment (Protection) Act-1986 and without reducing your responsibilities under the said Acts in any way, this is to inform you that this Board grants **Consent to Establish (NOC)** for **Change in Product Mix** in an industrial plant/activities at **PLOT NO:27,28, GIDC ESTATE PANOLI, DIST: BHARUCH** to manufacture the following products. The Validity of this order will be up to **23/01/2024**.

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

Sr. No.	Products	Quantity (MT/Annum)			Remarks
		Existin g	Propos ed	Total (After Chang e in Produ ct Mix)	
1.	Phosphorus Trichloride (PCl <sub>3</sub> )/ Phosphoryl chloride (POCl <sub>3</sub> )	1000	-	1000	No change
2.	Tri methyl Phosphite (TMP) or Tri ethyl Phosphite (TEP)	100	-	100	No change
3.	Diethyl Thio Phosphoryl Chloride (DETPC) /Sodium salt of Diethyl Thio Phosphoryl Chloride (Na-DETA)	5330	-	5330	No change

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





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

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**Clean Gujarat Green Gujarat**

ISO-9001-2008 & ISO-14001 - 2004 Certified Organisation

17.	Phosphate group based product [Chlorpyrifos (I) or its intermediate Na-TCP (Int), Acephate (I), Monocrotophos (I) or its intermediates MCMMAA (Int.), Dimethoate (I), Profenofos (I), Ethephon (PGR)] etc.	5000	-	5000	No change
18.	Pyridine group based product [Pyridalyl (I), Imazethapyr (H) Cloquintocet Methyl (H), Acetamiprid (I), 4, 6-Dichloro Pyridine (Int)], Azoxystrobin (F) etc	250	-	250	No change
19.	Urea group based product [Buprofezin (I), Lufenuron (I), Linuron (H), Diafenthiuron (I), Diuron (H), Novaluron (I), Chlorimuron (int), Hexythiazox (I), Spiromesifen (I), Azimsulfuron (H), Sulfonyl Ureas (H)] etc.	100	-	100	No change
20.	Phenol group based product [2- Cyanophenol (Int), 4-Fluoro-3 trilluoromethyl phenole (Int)] etc.	75	-	75	No change
<b>Total</b>		<b>19705</b>	<b>-90</b>	<b>19615</b>	

**2. SPECIFIC CONDITIONS:**

- a. Total production shall not exceed 19615 MT/Annum in any case.
- b. There shall be no change in mode of disposal of wastewater.
- c. There shall be no change in fuel consumption, flue gas emission and process gas emission.
- d. There shall be no change in Hazardous waste quantity / category.
- e. Unit shall sell out their hazardous waste to authorized end-users who is having authorization with valid CCA and rule 9 permission to receive this waste. Unit shall make MoU with such authorized end-users and submit MoU at time of application of CCA.
- f. All the efforts shall be made to send hazardous waste to cement industry for Co- processing first & there after it shall be disposed through other option.
- g. Unit shall follow spent solvent management guideline framed by board and shall make MoU with outside distillation units, if any. Also submit the prescribed forms as per guideline.



**GUJARAT POLLUTION CONTROL BOARD**

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar 382 010

Phone : (079) 23222425

(079) 23232152

Fax : (079) 23232156

Website : www.gpcb.gov.in

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

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

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

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

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

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

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

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

For and on behalf of  
GUJARAT POLLUTION CONTROL BOARD

(A.V. SHAH)

SR. ENVIRONMENT ENGINEER

Outward No: 500530, 30/03/2019

# Six Monthly EC Compliance Report

## Annexure 4 - ANNUAL RETURN- FORM-4 (2018-2019)



Cheminova India Limited  
Intermediate Division  
(27+28)/A, GIDC Estate,  
Panoli - 394 116  
Dist. Bharuch (Gujarat)  
India.

Phone : +91 9033978622-26  
fmc.com / fmc.in  
CIN NO. U24100MH1986PLC038627

Date – 20<sup>th</sup> June 2019

Ref No. CHEMINOVA/INTER/06/20/2019/01

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 -2018 to March 2019 as per the Authorization for "The Hazardous and Other waste (Management & Transboundary Movement) Rule 2016.

This is as per the requirement of Rule – [ 6(5), 13(8),16(6) and 20 (2)].

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

Thanking You,

For CHEMINOVA INDIA LTD.

AUTHORISED SIGNATORY

Encl: As above

CC: Regional Office, Ankleshwar.

Enc. Form -4

received  
Gujarat Pollution Control Board  
RO Ankleshwar  
21-6-19



# EC Compliance Report

Cheminova India Ltd. Intermediate Division

FORM - 4  
[See rule 6(5), 13(8), 16(6) and 20 (2)]  
FORM FOR FILING ANNUAL RETURNS

PCB ID- 15016  
Year -2018-19

[To be submitted by occupier/operator of disposal facility to State Pollution Control Board / Pollution Control Committee by 30<sup>th</sup> June of every year for the preceding period April to March]

1.	Name and address of facility	M/s.CHEMINOVA INDIA LTD, (Intermediate Division) Plot No. – (27+28)/A, GIDC, PANOLI. Dist. – Bharuch		
2.	Authorization No. and Date of issue	AWH-86147 dated of issue – 23/05/2017 Letter No. GPCB/ANK/CCA-115(9)/ID-15016/ 415086 Dated 16/06/2017 CCA Amendment No,94667 via Outward No. 467347 Dated 31/08/2018		
3.	Name of the authorized person and full address with telephone and fax number and e- mail	Abhay Arora (Factory Manger) CHEMINOVA INDIA LTD, (Intermediate Division) Plot No. – (27+28)/A, GIDC, PANOLI Dist Bharuch Ph. No. 9033978622 to 26, e -mail- <a href="mailto:Abhay.arora@fmc.com">Abhay.arora@fmc.com</a>		
4.	Production (Product wise) during year April 2018 to March 2019	Product	Quantity in (MT)	
		1. DIETHYL THICPHOSPHORYL CHLORIDE (DETPC / NADETA)		5199.500
		2. AZOLE GROUP BASED PRODUCTS (FLORASULAM)		9.810
		3. 'ESTER GROUP BASED PRODUCTS (CLODINAPOP / PHENOXY PROPIONATE)		12.686

Year -2018-19

PCB ID- 15016

## PART-A

1	Total Quantity of Category wise waste generated category wise	Hazardous waste generation	Category	Quantity Generated (in MT)
		1. Chemical sludge from waste water treatment (ETP Sludge)	35.3	1310.995
		2. Used or spent oil	5.1	1.1
		3. Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes (a) Non-Recyclable Plastic / Contaminated liners, bags (b) Insulation waste (c) Asbestos sheet (d) Discarded containers	33.1	50.745 11.920 30.920 89.105 Total Qty.= 182.690
		4. Process waste or Residue (a) For Incineration (b) For Co-process	29.1 29.1	233.325
		5. Process waste or Residue (Solid waste / Evaporation Salt)	29.1	Nil
		6. Total Sulphur	837	78.415



# EC Compliance Report

Year -2018-19

PCB ID- 15016

## 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 (in MT)	Remarks (Details enclose as)
	1.	Chemical sludge from waste water treatment (ETP Sludge)	35.3	1296.065	Nil	Nil	ANNEXURE- A
	2.	Used or spent oil	5.1	Nil	1.150	Nil	ANNEXURE- B
	3.	Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes (a) Non-Recyclable Plastic / Contaminated liners, bags (b) Insulation waste (c) Asbestos sheet (d) Discarded containers	33.1	(a) 50.680 (b) 11.280 (c) 32.720 Total Qty.=94.680	(d) 89.105	Nil	ANNEXURE- C
	4.	Process waste or Residue (a) For Incineration (b) For Co-process	29.1 29.1	(a) 177.720	(b)50.190	Nil	ANNEXURE- D
	5.	Process waste or Residue (Solid waste / Evaporation Salt)	29.1	Nil	Nil	Nil	Nil
	6.	Total Sulphur	837	76.960	Nil	Nil	ANNEXURE- E
	7.	Spent Solvent	20.2	Nil	14.844		

3	Quantity utilized in-house	NIL
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5



Year -2018-19

PCB ID- 15016

## 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 waste water treatment (ETP Sludge)	35.3	44.690
	2.	Used or spent oil	5.1	Nil
	3.	Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes (a) Non-Recyclable Plastic / Contaminated liners, bags (b) Insulation waste (c) Asbestos sheet (d) Discarded containers	33.1	1.065 0.640 1.295 Nil Total Qty.= 3.000
	4.	Process waste or Residue (c) For Incineration (d) For Co-process	29.1 29.1	10.607
	5.	Process waste or Residue (Solid waste / Evaporation Salt)	29.1	Nil
	6.	Total Sulphur	837	6550

# EC Compliance Report

PCB ID- 15016

## PART-A

### HAZARDOUS WASTE DISPOSAL DETAILS

ANNEXURE- A

- (1) Chemical sludge from waste water treatment (ETP Sludge Tube light & CFL waste encapsulated in RCC Hume pipe) Cat- 35.3

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Apr-18	2-Apr-18	683816	15.330	BEIL
	6-Apr-18	686281	15.760	BEIL
	10-Apr-18	688086	16.710	BEIL
	16-Apr-18	690962	14.905	BEIL
	20-Apr-18	693642	15.030	BEIL
	24-Apr-18	695260	14.305	BEIL
	24-Apr-18	695293	15.225	BEIL
	25-Apr-18	695815	18.015	BEIL
May-18	28-Apr-18	697350	15.950	BEIL
	3-May-18	699640	12.600	BEIL
	7-May-18	701701	16.305	BEIL
	11-May-18	703595	12.235	BEIL
	12-May-18	704442	13.765	BEIL
	15-May-18	706075	15.875	BEIL
	21-May-18	709339	16.615	BEIL
	24-May-18	710948	15.230	BEIL
	25-May-18	711584	18.550	BEIL
	26-May-18	712216	15.860	BEIL
	26-May-18	712289	15.590	BEIL
	30-May-18	713928	18.315	BEIL
	30-May-18	713906	15.545	BEIL
	6-Sep-18	749017	15.245	BEIL
	8-Sep-18	750078	15.6	BEIL
Sep-18	12-Sep-18	751784	16.59	BEIL
	14-Sep-18	752825	17.34	BEIL
	18-Sep-18	754658	16.805	BEIL
	22-Sep-18	756292	18.72	BEIL
	22-Sep-18	756359	17.82	BEIL
	24-Sep-18	757014	16.885	BEIL
	29-Sep-18	759317	18.84	BEIL
	29-Sep-18	759319	17.13	BEIL
	29-Sep-18	759315	16.575	BEIL
	29-Sep-18	759315	16.575	BEIL
Oct-18	2-Oct-18	760666	15.075	BEIL
	2-Oct-18	760670	16.63	BEIL
	3-Oct-18	761548	21.35	SEPPL
	17-Oct-18	767841	16.31	BEIL
	18-Oct-18	768177	15.505	BEIL
	25-Oct-18	771234	16.645	BEIL
	27-Oct-18	772439	14.665	BEIL
	29-Oct-18	773345	15.4	BEIL
	31-Oct-18	774680	15.505	BEIL



## EC Compliance Report

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Nov-18	6-Nov-18	778227	16.025	BEIL
	12-Nov-18	779259	15.040	BEIL
	12-Nov-18	779278	13.075	BEIL
	16-Nov-18	781600	15.990	BEIL
	16-Nov-18	781655	13.420	BEIL
	17-Nov-18	782127	14.640	BEIL
	19-Nov-18	782843	12.995	BEIL
	23-Nov-18	785750	16.925	BEIL
	23-Nov-18	785786	17.630	BEIL
	24-Nov-18	786509	14.965	BEIL
	26-Nov-18	787375	17.415	BEIL
	26-Nov-18	787448	13.400	BEIL
	1-Dec-18	790615	10.385	BEIL
	1-Dec-18	790903	2.995	BEIL
	3-Dec-18	791407	15.595	BEIL
Dec-18	19-Dec-18	801246	15.635	BEIL
	19-Dec-18	801321	17.540	BEIL
	20-Dec-18	801957	14.065	BEIL
	20-Dec-18	801917	14.735	BEIL
	28-Dec-18	807203	14.545	BEIL
	28-Dec-18	807277	13.515	BEIL
	28-Dec-18	807346	14.950	BEIL
	31-Dec-18	808692	15.075	BEIL
	31-Dec-18	808708	14.470	BEIL
	31-Dec-18	808736	12.065	BEIL
	8-Jan-19	813633	13.150	BEIL
	9-Jan-19	814153	14.770	BEIL
Jan-19	10-Jan-19	814711	13.505	BEIL
	24-Jan-19	822410	13.535	BEIL
	24-Jan-19	822443	11.330	BEIL
	2-Feb-19	827674	14.330	BEIL
Feb-19	7-Feb-19	830631	15.940	BEIL
	7-Feb-19	830636	15.390	BEIL
	19-Feb-19	837260	14.520	BEIL
	22-Feb-19	839263	14.035	BEIL
	26-Feb-19	841707	15.005	BEIL
	27-Feb-19	842236	15.805	BEIL
	12-Mar-19	850313	15.320	BEIL
Mar-19	13-Mar-19	850631	15.155	BEIL
	15-Mar-19	852169	15.030	BEIL
	15-Mar-19	852138	14.465	BEIL
	16-Mar-19	853100	15.090	BEIL
	16-Mar-19	853115	14.565	BEIL
	17-Mar-19	853380	15.685	BEIL
	TOTAL QUANTITY (In MT)		1296.065	





# EC Compliance Report

PCB ID- 15016

## PART-A

### ANNEXURE- B

(2) Used or spent oil Cat-5.1

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to Refiners
Nov-18	21-Nov-18	784383	1.150	ABC Organic & Chemicals
TOTAL QUANTITY (In MT)			1.150	

### ANNEXURE- C

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

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Apr-18	6-Apr-18	686283	0.825	BEIL
	11-Apr-18	688604	1.145	BEIL
	12-Apr-18	689325	1.070	BEIL
	28-Apr-18	697341	1.480	BEIL
May-18	7-May-18	701522	0.750	BEIL
	15-May-18	705875	1.365	BEIL
Oct-18	6-Oct-18	762902	1.495	BEIL
	8-Oct-18	763689	1.655	BEIL
	10-Oct-18	764729	1.38	BEIL
	16-Oct-18	767460	1.29	BEIL
	20-Oct-18	768929	1.14	BEIL
Nov-18	3-Nov-18	776655	2.475	BEIL
	14-Nov-18	780174	1.535	BEIL
	22-Nov-18	785195	1.865	BEIL
	30-Nov-18	789971	0.565	BEIL
Dec-18	2-Dec-18	791152	1.080	BEIL
	3-Dec-18	791234	1.320	BEIL
	8-Dec-18	794916	1.325	BEIL
	8-Dec-18	795258	1.250	BEIL
Dec-18	22-Jan-19	820907	1.070	BEIL
	30-Jan-19	826052	0.440	BEIL
Feb-19	5-Feb-19	829381	0.780	BEIL
Mar-19	11-Mar-19	849525	0.805	BEIL
	17-Mar-19	853435	1.880	BEIL
	19-Mar-19	854897	1.815	BEIL
Sub TOTAL QUANTITY (In MT)			31.800	



# EC Compliance Report

PCB ID- 15016

## PART-A

(b) Non-Recyclable Plastic /Contaminated liners, bags / Misc. waste (Incineration).

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Apr-18	18-Apr-18	692208	2.965	SEPPL
Oct-18	17-Oct-18	767852	2.89	BEIL
	17-Oct-18	767872	2.94	BEIL
	19-Oct-18	768546	3.155	BEIL
Dec-18	1-Dec-18	792753	2.320	BEIL
	3-Dec-18	791461	4.610	SEPPL
	Sub TOTAL QUANTITY (In MT)		18.880	
	TOTAL QUANTITY (In MT)		50.680	

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

(b)Insulation waste

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
May-18	8-May-18	702204	1.200	BEIL
Oct-18	4-Oct-18	761896	1.190	BEIL
	6-Oct-18	763105	1.205	BEIL
	8-Oct-18	763654	2.385	BEIL
	20-Oct-18	768949	1.010	BEIL
Jan-19	3-Jan-19	810761	1.095	BEIL
Feb-19	16-Feb-19	836061	0.920	BEIL
	21-Feb-19	838655	0.805	BEIL
	23-Feb-19	839938	0.810	BEIL
Mar-19	17-Mar-19	853455	0.660	BEIL
	TOTAL QUANTITY (In MT)		11.280	

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

(c) Asbestos sheet

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Apr-18	17-Apr-18	691576	3.020	
	19-Apr-18	692674	3.415	
May-18	10-May-18	703360	2.790	
	12-May-18	704328	3.120	
	15-May-18	706073	2.505	
Nov-18	13-Nov-18	779707	2.71	
	13-Nov-18	779763	4.31	
	20-Nov-18	783746	4.11	
	26-Nov-18	787279	3.18	
	28-Nov-18	788813	3.56	
	TOTAL QUANTITY (In MT)		32.720	



## EC Compliance Report

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

Month of disposal	Date of disposal	Document No.	Quantity (In MT)	Disposed to
Apr-18	13-Apr-18	--	4.320	BHANU BARREL SUPPLIERS
	30-Apr-18	--	3.645	BHANU BARREL SUPPLIERS
May-18	29-May-18	--	12.220	BHANU BARREL SUPPLIERS
Jun-18	18-Jun-18		0.450	BHANU BARREL SUPPLIERS
	22-Jun-18	--	4.705	BHANU BARREL SUPPLIERS
Jul-18	28-Jul-18	--	11.230	BHANU BARREL SUPPLIERS
Aug-18	20-Aug-18	--	8.050	BHANU BARREL SUPPLIERS
	23-Aug-18		0.365	BHANU BARREL SUPPLIERS
Sep-18	11-Sep-18	751555	5.260	Anas Green Environment Pvt. Ltd.
	27-Sep-18	758482	2.570	Anas Green Environment Pvt. Ltd.
Oct-18	23-Oct-18	770447	9.740	Anas Green Environment Pvt. Ltd.
Nov-18	17-Nov-18	782031	5.525	Anas Green Environment Pvt. Ltd.
Dec-18	1-Dec-18	790769	5.665	Anas Green Environment Pvt. Ltd.
	8-Dec-18	795182	0.805	Anas Green Environment Pvt. Ltd.
	24-Dec-18	804306	4.810	Anas Green Environment Pvt. Ltd.
Jan-19	11-Jan-19	815492	4.965	Anas Green Environment Pvt. Ltd.
	28-Jan-19	824329	4.780	Anas Green Environment Pvt. Ltd.
<b>TOTAL QUANTITY (In MT)</b>			<b>89.105</b>	

ANNEXURE-D

- 4 Process waste or Residue Cat -29.1  
(a) For Incineration

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
May-18	1-May-18	698606	6.785	BEIL
	7-May-18	701740	6.160	BEIL
	8-May-18	702356	6.685	BEIL
	17-May-18	707317	10.300	BEIL
Jun-18	11-Jun-18	718899	5.165	BEIL
	4-Jun-18	716145	10.885	BEIL
Jul-18	14-Jul-18	730566	7.205	BEIL
	18-Jul-18	731748	7.17	BEIL
	20-Jul-18	732504	18.935	SEPPL
	31-Jul-18	735827	15.44	BEIL
Aug-18	2-Aug-18	736717	21.630	BEIL
	16-Aug-18	742088	4.520	BEIL
	16-Aug-18	742188	7.210	BEIL
Sep-18	10-Sep-18	750910	4.925	BEIL
	19-Sep-18	755034	11.24	BEIL
	22-Sep-18	756476	22.955	BEIL
	26-Sep-18	758026	6.835	BEIL
Nov-18	20-Nov-18	783511	3.675	BEIL
<b>TOTAL QUANTITY (In MT)</b>			<b>177.720</b>	





## EC Compliance Report

### 5 Process waste or Residue Cat -29.1

#### (b) For Co-process

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Apr-18	28-Apr-18	697335	7.235	RSPL
Aug-18	9-Aug-18	739459	9.635	RSPL
	13-Aug-18	741023	10.025	RSPL
	22-Aug-18	743932	10.110	RSPL
Sep-18	21-Sep-18	756145	10.22	RSPL
Oct-18	13-Oct-18	766554	2.965	RSPL
TOTAL QUANTITY (In MT)			50.190	

#### ANNEXURE-E

### 6 Recovered Sulphur Cat -B-37

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	Disposed to
Apr-18	17-Apr-18	691578	12.325	BEIL
May-18	28-May-18	712909	14.110	BEIL
Nov-18	15-Nov-18	780989	14.745	BEIL
	29-Nov-18	789405	13.700	BEIL
Dec-18	2-Dec-18	791126	11.630	BEIL
Jan-19	28-Jan-19	824443	10.450	BEIL
TOTAL QUANTITY (In MT)			76.960	

#### ANNEXURE-F

### 7 Spent Solvent Cat -20.2

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	Disposed to
Sep-18	4-Sep-18	748436	3.549	M/s Balmukund chemicals
	4-Sep-18	748460	11.295	M/s Balmukund chemicals
TOTAL QUANTITY (In MT)			14.844	



PCB ID- 15016

Year -2018-19

## 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 Hydro sulfide 30%	-	2882.607
		Hydrochloric Acid 30%	B-15	3629.632
		Phosphoric Acid	B-15	584.100
		Sodium Bisulphite Powder	B-23	1405.880
		Sodium Sulphite 30%	B-15	644.731
		Sodium Bisulphite Solution (30%)	B-23	2838.830

2	Total Quantity of Category wise waste Disposed	Hazardous waste generation	Category	Quantity Disposal (in MT)
		Sodium Hydro sulfide 30%	-	2887.290
		Hydrochloric Acid 30%	B-15	3537.855
		Phosphoric Acid	B-15	615.165
		Sodium Bisulphite Powder	B-23	1428.720
		Sodium Sulphite 30%	B-15	666.480
		Sodium Bisulphite Solution (30%)	B-23	2773.555

3	Total Quantity of Category wise waste storage at the end of the year	Hazardous waste generation	Category	Quantity Generated (in MT)
		Sodium Hydro sulfide 30%	-	40.555
		Hydrochloric Acid 30%	B-15	103.358
		Phosphoric Acid	B-15	11.655
		Sodium Bisulphite Powder	B-23	53.720
		Sodium Sulphite 30%	B-15	35.000
		Sodium Bisulphite Solution (30%)	B-23	111.425

NOTE: DISPOSAL OF BYPRODUCT AS HAZARDOUS WASTE THROUGH MANIFEST WAS STARTED SINCE 8<sup>th</sup> OCTOBER 2018 ( After receiving the amendment in CCA)



# EC Compliance Report

ANNEXURE-G

## 8 Sodium Hydro sulfide 30%, Cat : Not Applicable

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	Disposed to
Oct-18	8-Oct-18	763958	17.905	Jay Organics
	9-Oct-18	764484	16.365	Ohm Dye Chem
	11-Oct-18	765357	16.355	Pragna chemical Industries
	13-Oct-18	766555	9.935	Neeta Inter Chem
	15-Oct-18	767227	15.635	Pragna chemical Industries
	18-Oct-18	768182	16.430	Sahyog Pharmachem Industries
	19-Oct-18	768715	16.390	Siddhi traders
	22-Oct-18	769879	16.410	Dev Dyechem Industries
	24-Oct-18	770989	16.425	Pragna chemical Industries
	26-Oct-18	771817	16.395	Shree Hari Organics
	27-Oct-18	772818	16.425	Dev Dyechem Industries
Nov-18	1-Nov-18	775563	16.430	R.P.Industries
	2-Nov-18	776463	10.825	Ohm Dye Chem
	4-Nov-18	777438	16.440	R.P.Industries
	12-Nov-18	779287	16.470	R.P.Industries
	14-Nov-18	780421	17.800	Jayvir Dye Chem
	16-Nov-18	781593	16.460	Jayvir Dye Chem
	16-Nov-18	781597	20.015	R.P.Industries
	19-Nov-18	783089	16.430	Dev Dyechem Industries
	22-Nov-18	784915	11.635	Ohm Dye Chem
	26-Nov-18	787307	16.435	Saga Chemie Pvt. Ltd
	28-Nov-18	788356	16.57	Sahyog Pharmachem Industries
	30-Nov-18	790286	16.56	Rahul Intermediates
Dec-18	1-Dec-18	790940	16.510	Raina Industries
	2-Dec-18	791237	11.810	Neeta Inter Chem
	3-Dec-18	791833	16.490	Raina industries
	5-Dec-18	792784	16.405	Dev Dyechem Industries
	7-Dec-18	794202	16.425	Ohm Dye Chem
	8-Dec-18	795097	16.545	Raina Industries
	10-Dec-18	795926	16.515	Jayvir Dye Chem
	12-Dec-18	797285	16.540	Raina Industries
	13-Dec-18	798252	16.520	Raina Industries
	15-Dec-18	798935	16.510	Raina Industries
	17-Dec-18	800342	16.520	Raina Industries
	19-Dec-18	801511	16.550	Pragna chemical Industries
	20-Dec-18	802297	16.460	Dev Dyechem Industries
	22-Dec-18	803499	16.470	Jayvir Dye Chem
	23-Dec-18	804430	16.450	Raina Industries
	26-Dec-18	805909	16.575	Ohm Dye Chem
	27-Dec-18	806758	16.575	Jayvir Dye Chem
	29-Dec-18	807787	16.615	Dev Dyechem Industries
	31-Dec-18	809008	11.195	R.P.Industries
Jan-19	3-Jan-19	810514	16.465	Pragna Chemical Industries
	4-Jan-19	811323	12.135	Neeta Inter Chem
	5-Jan-19	812018	16.545	Jayvir Dye Chem
	8-Jan-19	813663	16.505	Pragna Chemical Industries
	11-Jan-19	815196	16.465	Saga Chemie Pvt. Ltd.
	12-Jan-19	816355	16.455	Ohm Dye Chem
	15-Jan-19	817216	16.435	Ohm Dye Chem



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	16-Jan-19	817796	16.435	Dev Dyechem Industries
	18-Jan-19	819245	13.270	R.P.Industries
	21-Jan-19	820610	16.410	Jayvir Dye Chem
	22-Jan-19	820830	13.690	Pragna Chemical Industries
	22-Jan-19	821213	12.525	R.P.Industries
	25-Jan-19	822946	12.145	R.P.Industries
	28-Jan-19	824514	15.560	Pharmachem Industries
	29-Jan-19	825124	11.770	R.P.Industries
	30-Jan-19	826018	15.130	Jayvir Dye Chem
	31-Jan-19	826594	11.805	Ohm Dye Chem
Feb-19	1-Feb-19	827267	12.235	R.P.Industries
	4-Feb-19	828809	15.385	Dev Dyechem Industries
	5-Feb-19	829553	9.365	R.P.Industries
	7-Feb-19	830886	12.135	R.P.Industries
	8-Feb-19	831634	20.075	R.P.Industries
	9-Feb-19	831925	16.080	Pragna Chemical Industries
	11-Feb-19	832853	16.425	Jayvir Dye Chem
	13-Feb-19	834340	16.420	Hari Organic
	16-Feb-19	836073	16.400	Pragna Chemical Industries
	18-Feb-19	836988	16.410	Sahyog Pharmachem Industries
	19-Feb-19	837656	14.145	R.P.Industries
	20-Feb-19	838368	14.620	Jayvir Dye Chem
	22-Feb-19	839686	13.845	Dev Dyechem Industries
	26-Feb-19	842034	16.075	Ohm Dye Chem
Mar-19	1-Mar-19	843931	15.390	Dev Dyechem Industries
	5-Mar-19	845787	16.505	Pragna Chemical Industries
	6-Mar-19	846764	16.45	Ohm Dye Chem
	8-Mar-19	848044	16.42	Sahyog Pharmachem Industries
	11-Mar-19	849589	16.415	Dev Dyechem Industries
	13-Mar-19	851016	16.44	Jayvir Dye Chem
	15-Mar-19	852497	16.415	Jayvir Dye Chem
	18-Mar-19	854204	16.395	Ohm Dye Chem
	19-Mar-19	854722	16.425	Saga Chemie Pvt. Ltd.
	23-Mar-19	856332	16.445	Dev Dyechem Industries
	25-Mar-19	857241	16.445	Saga Chemie Pvt. Ltd.
	28-Mar-19	858971	16.425	Jayvir Dye Chem
	30-Mar-19	860152	16.43	Jayvir Dye Chem
	TOTAL QUANTITY (in MT)		1342.38	

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

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	Disposed to
Oct-18	8-Oct-18	763946	20.280	Sulaksh Chemicals
	9-Oct-18	764469	10.050	Nova Acid Pvt. Ltd.
	10-Oct-18	764964	25.145	Sulaksh Chemicals
	11-Oct-18	765588	21.135	Rahul Intermediates
	12-Oct-18	766036	9.940	Nova Acid Pvt. Ltd.
	16-Oct-18	767618	21.180	Rahul Intermediates
	18-Oct-18	768185	16.210	Sulaksh Chemicals
	19-Oct-18	768718	20.835	Sulaksh Chemicals
	19-Oct-18	768717	21.165	Rahul Intermediates
	24-Oct-18	770840	24.830	Sulaksh Chemicals





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	24-Oct-18	771088	21.125	Rahul Intermediates
	31-Oct-18	774918	21.675	Rahul Intermediates
Nov-18	1-Nov-18	775758	19.325	Rahul Intermediates
	4-Nov-18	777449	20.850	Rahul Intermediates
	6-Nov-18	778487	21.450	Rahul Intermediates
	12-Nov-18	779294	20.625	Rahul Intermediates
	12-Nov-18	779330	11.260	Rahul Intermediates
	12-Nov-18	779447	10.170	Rahul Intermediates
	13-Nov-18	779808	21.600	Rahul Intermediates
	15-Nov-18	781010	19.910	Rahul Intermediates
	16-Nov-18	781172	20.360	Rahul Intermediates
	17-Nov-18	782276	21.165	Rahul Intermediates
	22-Nov-18	784902	20.225	Rahul Intermediates
	24-Nov-18	786419	20.145	Rahul Intermediates
	27-Nov-18	787819	17.325	Rahul Intermediates
Dec-18	1-Dec-18	790953	20.9	Rahul Intermediates
	1-Dec-18	790892	20.675	Rahul Intermediates
	5-Dec-18	792737	16.745	Sulaksh Chemicals
	8-Dec-18	795104	20.655	Rahul Intermediates
	12-Dec-18	797313	20.78	Rahul Intermediates
	13-Dec-18	798192	16.84	Sulaksh Chemicals
	15-Dec-18	798936	20.84	Rahul Intermediates
	17-Dec-18	800397	16.46	Sulaksh Chemicals
	18-Dec-18	800842	20.655	Rahul Intermediates
	20-Dec-18	802200	20.475	Sulaksh Chemicals
	24-Dec-18	804659	19.8	Sulaksh Chemicals
	25-Dec-18	805172	20.51	Rahul Intermediates
	25-Dec-18	805055	20.415	Rahul Intermediates
	28-Dec-18	807366	20.165	Sulaksh Chemicals
	28-Dec-18	807303	20.68	Rahul Intermediates
	31-Dec-18	808789	20.635	Rahul Intermediates
Jan-19	3-Jan-19	810467	20.330	Rahul Intermediates
	3-Jan-19	810449	21.785	Sulaksh Chemicals
	4-Jan-19	811328	20.350	Rahul Intermediates
	5-Jan-19	811808	20.565	Rahul Intermediates
	5-Jan-19	812013	20.090	Rahul Intermediates
	7-Jan-19	812840	20.795	Rahul Intermediates
	8-Jan-19	813642	18.315	Sulaksh Chemicals
	11-Jan-19	816209	19.965	Rahul Intermediates
	12-Jan-19	816349	20.685	Sulaksh Chemicals
	15-Jan-19	817219	20.420	Rahul Intermediates
	16-Jan-19	817790	10.290	Rahul Intermediates
	17-Jan-19	818569	23.855	Sulaksh Chemicals
	21-Jan-19	820590	20.655	Rahul Intermediates
	25-Jan-19	822659	19.375	Sulaksh Chemicals
	25-Jan-19	822970	10.075	Rahul Intermediates
	25-Jan-19	822662	20.315	Rahul Intermediates
	31-Jan-19	826586	20.370	Rahul Intermediates
	31-Jan-19	826569	24.260	Sulaksh Chemicals
Feb-19	2-Feb-19	827861	20.045	Rahul Intermediates
	4-Feb-19	828746	20.555	Rahul Intermediates
	5-Feb-19	829532	18.070	Rahul Intermediates
	7-Feb-19	830883	17.005	Rahul Intermediates



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	9-Feb-19	831944	19.095	Sulaksh Chemicals
	12-Feb-19	833663	25.525	Sulaksh Chemicals
	21-Feb-19	838985	19.240	Rahul Intermediates
	21-Feb-19	838638	20.245	Sulaksh Chemicals
	23-Feb-19	840276	9.010	Rahul Intermediates
	24-Feb-19	840492	20.325	Rahul Intermediates
Mar-19	1-Mar-19	844012	17.350	Sulaksh Chemicals
	1-Mar-19	844046	17.860	Rahul Intermediates
	4-Mar-19	845348	24.985	Sulaksh Chemicals
	6-Mar-19	846746	15.180	Rahul Intermediates
	6-Mar-19	846751	19.195	Rahul Intermediates
	9-Mar-19	848531	19.915	Sulaksh Chemicals
	11-Mar-19	849468	16.85	Sulaksh Chemicals
	11-Mar-19	849741	21.125	Rahul Intermediates
	13-Mar-19	851007	16.57	Sulaksh Chemicals
	18-Mar-19	854189	20.615	Sulaksh Chemicals
	18-Mar-19	854245	20.63	Rahul Intermediates
	19-Mar-19	854791	19.59	Sulaksh Chemicals
	25-Mar-19	857244	24.27	Sulaksh Chemicals
	26-Mar-19	857680	20.985	Sulaksh Chemicals
	28-Mar-19	858978	21.325	Sulaksh Chemicals
	<b>TOTAL QUANTITY (In MT)</b>		<b>1633.265</b>	

### 10 Phosphoric Acid Cat: B-15

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	Disposed to
Oct-18	8-Oct-18	763940	9.665	Choksey Chemical Industries
	11-Oct-18	765583	9.300	Choksey Chemical Industries
	24-Oct-18	771068	8.950	Choksey Chemical Industries
	29-Oct-18	773754	9.290	Choksey Chemical Industries
Nov-18	2-Nov-18	776465	10.295	Choksey Chemical Industries
	15-Nov-18	781026	10.235	Choksey Chemical Industries
	19-Nov-18	783153	10.040	Choksey Chemical Industries
	26-Nov-18	787425	9.865	Choksey Chemical Industries
Dec-18	1-Dec-18	790787	8.685	Choksey Chemical Industries
	4-Dec-18	792011	9.09	Choksey Chemical Industries
	8-Dec-18	795226	9.185	Choksey Chemical Industries
	17-Dec-18	800375	9.995	Choksey Chemical Industries
	20-Dec-18	802313	9.755	Choksey Chemical Industries
	22-Dec-18	803440	8.685	Choksey Chemical Industries
	25-Dec-18	805296	8.985	Choksey Chemical Industries
	27-Dec-18	806750	9.285	Choksey Chemical Industries
	31-Dec-18	809014	9.89	Choksey Chemical Industries
Jan-19	16-Jan-19	817772	14.425	Choksey Chemical Industries
	21-Jan-19	820572	9.615	Choksey Chemical Industries
	25-Jan-19	822953	15.863	Choksey Chemical Industries
	29-Jan-19	825130	10.360	Choksey Chemical Industries
	31-Jan-19	826719	8.695	Choksey Chemical Industries
Feb-19	13-Feb-19	834349	10.455	Choksey Chemical Industries
	16-Feb-19	836067	12.595	Choksey Chemical Industries
	19-Feb-19	837443	13.185	Choksey Chemical Industries



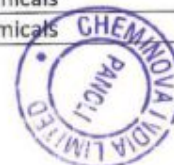


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	23-Feb-19	840238	11.275	Choksey Chemical Industries
	26-Feb-19	842055	11.010	Choksey Chemical Industries
Mar-19	5-Mar-19	845988	11.410	Choksey Chemical Industries
	9-Mar-19	848690	9.84	Choksey Chemical Industries
	13-Mar-19	851047	10.22	Choksey Chemical Industries
	25-Mar-19	857235	8.875	Choksey Chemical Industries
	TOTAL QUANTITY (In MT)		319.018	

### 11 Sodium Bisulphite Powder Cat: B-23

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	Disposed to
Oct-18	8-Oct-18	763921	16.000	Nutan Dye Chem
	8-Oct-18	763907	10.000	P.G.chemicals Industries
	9-Oct-18	764476	10.000	Akshar Enterprise
	10-Oct-18	764982	16.000	Nutan Dye Chem
	11-Oct-18	765356	19.500	Trimurti Chemicals
	11-Oct-18	765585	10.000	Shalibhadra Intermediates Pvt.Ltd
	20-Oct-18	768972	5.000	Maruti Freight carriers
	22-Oct-18	769858	16.000	Nutan Dye Chem
	23-Oct-18	770486	10.000	P.G.chemicals Industries
	24-Oct-18	770993	10.000	Lovely chemicals
	26-Oct-18	771810	10.000	Shalibhadra Intermediates Pvt.Ltd
	29-Oct-18	773744	10.000	P.G.chemicals Industries
	31-Oct-18	774925	10.000	Shalibhadra Intermediates Pvt.Ltd
Nov-18	2-Nov-18	776207	10.000	Akshar Enterprise
	4-Nov-18	777434	10.000	P.G.chemicals Industries
	14-Nov-18	780291	16.000	Nutan Dye Chem
	21-Nov-18	784215	10.000	Shalibhadra Intermediates Pvt.Ltd
	24-Nov-18	786044	16.000	Nutan Dye Chem
	29-Nov-18	789504	13.000	Nutan Dye Chem
Dec-18	4-Dec-18	792560	10.000	P.G.chemicals Industries
	7-Dec-18	794420	10.000	Shalibhadra Intermediates Pvt.Ltd
	8-Dec-18	795088	16.000	Nutan Dye Chem
	11-Dec-18	796730	1.600	Shalibhadra Intermediates Pvt.Ltd
	11-Dec-18	796856	5.000	Trimurti Chemicals
	17-Dec-18	800363	10.000	Navkar Chemical
	17-Dec-18	800387	10.000	Shalibhadra Intermediates Pvt.Ltd
	19-Dec-18	801521	16.000	Nutan Dye Chem
	22-Dec-18	803503	8.600	Shalibhadra Intermediates Pvt.Ltd
	26-Dec-18	805919	16.000	Nutan Dye Chem
	28-Dec-18	807029	10.000	Lovely chemicals
	31-Dec-18	809098	10.000	Shalibhadra Intermediates Pvt.Ltd
	31-Dec-18	809090	10.000	Akshar Enterprise
	31-Dec-18	808996	10.000	P.G.chemicals Industries
Jan-19	3-Jan-19	810855	20.000	Shalibhadra Intermediates
	9-Jan-19	814451	20.000	Shalibhadra Intermediates
	16-Jan-19	817761	20.000	Shalibhadra Intermediates
	21-Jan-19	820511	20.000	Shalibhadra Intermediates
	23-Jan-19	821744	16.000	Nutan Dye Chem
	28-Jan-19	824388	5.000	Trimurti Chemicals
	30-Jan-19	826023	10.000	P.G.Chemicals
Feb-19	1-Feb-19	827334	10.000	P.G.Chemicals



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	5-Feb-19	829360	16.000	Nutan Dye Chem
	6-Feb-19	830208	7.600	Shalibhadra Intermediates
	9-Feb-19	831947	10.000	P.G.Chemicals
	18-Feb-19	836788	10.000	Navkar Chemicals
	18-Feb-19	836783	10.000	P.G.Chemicals
	20-Feb-19	838151	10.000	P.G.Chemicals
	27-Feb-19	842506	10.000	Shalibhadra Intermediates
Mar-19	1-Mar-19	843833	10.000	Akshar Enterprise
	1-Mar-19	843865	20.000	Lovely Chemicals
	11-Mar-19	849287	10.000	P.G.Chemicals
	15-Mar-19	852516	10.000	Lovely Chemicals
	15-Mar-19	852250	10.000	Lovely Chemicals
	15-Mar-19	852240	5.000	Trimurti Chemicals
	18-Mar-19	854208	10.000	Shalibhadra Intermediates
	18-Mar-19	854215	10.000	Shalibhadra Intermediates
	19-Mar-19	854784	10.000	P.G.Chemicals
	19-Mar-19	854588	10.000	P.G.Chemicals
	27-Mar-19	858269	10.000	P.G.Chemicals
	28-Mar-19	858936	10.000	Navkar Chemicals
	28-Mar-19	858775	10.000	P.G. Chemicals
	<b>TOTAL QUANTITY (In MT)</b>		<b>700.300</b>	

### 12 Sodium Bisulphite Solution (30%) Cat: B-23

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	Disposed to
Oct-18	9-Oct-18	764488	18.715	Nutan Dye Chem
	10-Oct-18	765035	16.780	Trimurti Chemicals
	11-Oct-18	765580	18.525	Trimurti Chemicals
	15-Oct-18	767197	18.565	Nutan Dye Chem
	18-Oct-18	768183	22.490	Shalibhadra Intermediates Pvt.Ltd
	19-Oct-18	768716	18.735	Trimurti Chemicals
	23-Oct-18	770480	18.765	Trimurti Chemicals
	24-Oct-18	771077	18.770	Nutan Dye Chem
	26-Oct-18	771801	18.605	Trimurti Chemicals
	31-Oct-18	775010	19.085	Nutan Dye Chem
Nov-18	2-Nov-18	775981	12.425	Ohm Dye Chem
	2-Nov-18	775985	25.575	Shalibhadra Intermediates Pvt.Ltd
	12-Nov-18	779286	19.050	Nutan Dye Chem
	13-Nov-18	779915	18.830	Trimurti Chemicals
	15-Nov-18	781018	16.645	Trimurti Chemicals
	19-Nov-18	783107	18.685	Trimurti Chemicals
	19-Nov-18	783103	18.965	Nutan Dye Chem
	21-Nov-18	784206	18.935	Trimurti Chemicals
	21-Nov-18	784220	24.480	Trimurti Chemicals
	21-Nov-18	784226	18.325	Trimurti Chemicals
	22-Nov-18	784890	11.365	Ohm Dye Chem
	27-Nov-18	787798	18.675	Nutan Dye Chem
	27-Nov-18	787811	11.440	Trimurti Chemicals
	28-Nov-18	788341	10.000	Lovely chemicals
	28-Nov-18	788364	10.000	Shalibhadra Intermediates Pvt.Ltd
Dec-18	3-Dec-18	791820	18.930	Nutan Dye Chem
	6-Dec-18	793994	22.965	Shalibhadra Intermediates Pvt.Ltd





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	6-Dec-18	793483	18.675	Trimurti Chemicals
	14-Dec-18	798621	18.255	Trimurti Chemicals
	15-Dec-18	798937	18.740	Trimurti Chemicals
	17-Dec-18	800425	19.165	Trimurti Chemicals
	17-Dec-18	800327	18.230	Trimurti Chemicals
	19-Dec-18	801516	18.640	Trimurti Chemicals
	20-Dec-18	802212	18.630	Lovely chemicals
	22-Dec-18	803444	18.950	Trimurti Chemicals
	25-Dec-18	805063	18.780	Trimurti Chemicals
	26-Dec-18	805956	18.635	Nutan Dye Chem
	27-Dec-18	806735	18.835	Trimurti Chemicals
	29-Dec-18	808088	18.875	Lovely chemicals
<b>Jan-19</b>	3-Jan-19	810512	19.065	Trimurti Chemicals
	4-Jan-19	811335	18.935	Trimurti Chemicals
	5-Jan-19	812023	23.760	Nutan Dye Chem
	7-Jan-19	812845	19.570	Trimurti Chemicals
	9-Jan-19	814319	19.105	Trimurti Chemicals
	12-Jan-19	816219	18.585	Trimurti Chemicals
	15-Jan-19	817224	18.640	Lovely Chemicals
	18-Jan-19	819227	9.940	Ohm Dye Chem
	18-Jan-19	819216	18.000	Trimurti Chemicals
	21-Jan-19	820601	13.315	Trimurti Chemicals
	21-Jan-19	820462	10.000	Karn Chem Corporation
	25-Jan-19	822652	19.075	Trimurti Chemicals
	29-Jan-19	825334	19.460	Trimurti Chemicals
	31-Jan-19	826727	18.465	Trimurti Chemicals
	31-Jan-19	826722	19.040	Ohm Dye Chem
<b>Feb-19</b>	2-Feb-19	827857	18.380	Trimurti Chemicals
	4-Feb-19	828910	19.070	Trimurti Chemicals
	6-Feb-19	830223	12.705	Trimurti Chemicals
	13-Feb-19	834433	17.955	Ohm Dye Chem
	16-Feb-19	836080	18.425	Trimurti Chemicals
	18-Feb-19	836965	18.740	Trimurti Chemicals
	18-Feb-19	837016	14.285	Trimurti Chemicals
<b>Mar-19</b>	2-Mar-19	844623	18.135	Trimurti Chemicals
	5-Mar-19	845933	18.145	Ohm Dye Chem
	6-Mar-19	846773	18.250	Trimurti Chemicals
	7-Mar-19	847493	18.710	Trimurti Chemicals
	8-Mar-19	848144	18.265	Trimurti Chemicals
	12-Mar-19	850299	18.490	Trimurti Chemicals
	13-Mar-19	851054	18.360	Trimurti Chemicals
	15-Mar-19	852504	18.820	Trimurti Chemicals
	15-Mar-19	852528	18.545	Trimurti Chemicals
	15-Mar-19	852255	10.000	Akshar Enterprise
	18-Mar-19	854197	17.750	Ohm Dye Chem
	26-Mar-19	857730	18.580	Lovely Chemicals
	28-Mar-19	858983	19.265	Trimurti Chemicals
	28-Mar-19	858960	18.355	Trimurti Chemicals
	29-Mar-19	859562	18.680	Trimurti Chemicals
	30-Mar-19	860156	19.240	Trimurti Chemicals
	<b>TOTAL QUANTITY (In MT)</b>		<b>1380.840</b>	



## EC Compliance Report

### 13 Sodium Sulphite 30% Cat: B-15

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	Disposed to
Oct-18	8-Oct-18	763929	12.500	Trimurti Chemicals
	10-Oct-18	764975	13.380	Trimurti Chemicals
	12-Oct-18	766037	17.595	Trimurti Chemicals
	15-Oct-18	767209	17.480	Trimurti Chemicals
	18-Oct-18	768181	17.595	Trimurti Chemicals
	19-Oct-18	768714	17.450	Trimurti Chemicals
	21-Oct-18	769309	17.455	Trimurti Chemicals
	24-Oct-18	770981	17.585	Trimurti Chemicals
	27-Oct-18	772627	27.320	Trimurti Chemicals
	29-Oct-18	773778	27.800	Trimurti Chemicals
Nov-18	15-Nov-18	781913	28.030	Trimurti Chemicals
	16-Nov-18	781170	27.180	Trimurti Chemicals
	17-Nov-18	781897	28.420	Trimurti Chemicals
	17-Nov-18	782273	28.225	Trimurti Chemicals
	19-Nov-18	783125	28.335	Trimurti Chemicals
Feb-19	7-Feb-19	830954	20.695	Trimurti Chemicals
	7-Feb-19	830942	19.535	Trimurti Chemicals
	8-Feb-19	830954	20.695	Trimurti Chemicals
	8-Feb-19	831570	20.375	Trimurti Chemicals
	9-Feb-19	831950	18.165	Trimurti Chemicals
TOTAL QUANTITY (In MT)			425.815	

DATE: 20<sup>th</sup> June 2019

PLACE: Panoli

Signature of Factory Manager /Occupier



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## Six Monthly EC Compliance Report

### Annexure 5 -ENVIRONMENTAL STATEMENT – FORM V (2018-2019)



ISO 9001:2015  
ISO 14001:2015  
OHSAS  
18001:2007  
ID 9106627522

Cheminova India Limited  
Intermediate Division  
(27+28)/A, GIDC Estate,  
Panoli - 394 116  
Dist. Bharuch (Gujarat)  
India.

Phone : +91 9033978622-26  
fmc.com / fmc.in  
CIN NO. U24100MH1986PLC038627

Ref No. CIL/ INTER/Form -V/2019/07/24/001

**ID: 15016**

Date: 24<sup>th</sup> July 2019

To  
The Member Secretary  
Gujarat Pollution Control Board,  
Paryavaran Bhawan, Sector-IO-A,  
Ghandhinagar-382010

SUB: - Submission of Environment Statement (FORM-V) for the Year 2018-19

Respected Sir,

Please find enclosed the duly filled Environment Statement in Form-V for the financial year 2018-2019.

Please acknowledge the same.

This is for your kind perusal please

Thanking you,  
Yours faithfully,

Cheminova India Limited. Panoli.  
Intermediate Division

Enclosures: Form —V

CC To: Regional Officer, GPCB, Ankleshwar.

Received  
Gujarat Pollution Control Board  
90 Ankleshwar  
24-7-19

# EC Compliance Report

FORM - V  
(See Rule 14)

From :

CHEMINOVA INDIA LTD.  
Intermediate Division Plot no (27+28)/A  
GIDC Panoli, Tal Ankleshwar Dist Bharuch

To:

Gujarat Pollution Control Board,  
Paryavaran Bhavan, sector 10 A  
Gandhinagar -382043

Environmental Statement for the financial year ending the 31st March, 2019

## PART - A

- i) Name & address of the Owner/Occupier of the industry, operation or process - Mr. Manej Khanna  
CHEMINOVA INDIA LTD.  
Intermediate Division Plot no (27+28)/A  
GIDC Panoli, Tal Ankleshwar Dist Bharuch
- ii) Industry category - ISI
- Primary :- (SIC Code) Not Applicable
- Secondary:- (SIC Code) Not Applicable
- iii) Production capacity:- Units - ANNEXURE-I
- iv) Year of establishment - 1998
- v) Date of the last environmental statement submitted - 24th September 2018

## PART - B

### Water & Raw Material Consumption

- i) Water consumption - M<sup>3</sup>/day - 361 m<sup>3</sup>/day
- Process - 131 m<sup>3</sup>/day
- Cooling - 193 m<sup>3</sup>/day
- Domestic - 25 m<sup>3</sup>/day
- Gardening - 12 m<sup>3</sup>/day

Name of products	Process water consumption per product output (Lit./ Kg)	
	During the previous financial year 2017-2018 (1)	During the current financial year 2018-2019 (2)
(1) Diethyl Thio Phosphoryl Chloride	8.55	8.99
(2) Azole group based products (Florasulam)	53.00	52.00
(3) Azine group based products METRIBUZIN	31.00	0.00
(4) Gamacylothrins	20.00	0.00
(4) Ester group based products ( Clodinafop / Phenoxy Propionate)	0.00	51.00

### ii) Raw Material consumption

* Name of raw materials	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year 2017-2018	During the Current financial year 2018-2019
1 Phosphorous	DETPC	0.194	0.191
2 Sulphur		0.505	0.491
3 Ethanol		0.788	0.736
4 Caustic lye		0.143	0.134
5 Chlorine		0.498	0.408
6 Soda Ash		0.228	0.236
7 Homet P		0.774	0.735



## EC Compliance Report

8	TEA		1.057	1.021
9	POCl <sub>3</sub>		0.900	0.865
10	Hydrazine Hydrate		0.457	0.404
11	H <sub>2</sub> O <sub>2</sub>		0.424	0.401
12	CS <sub>2</sub>		0.502	0.466
13	Chlorine		0.993	0.981
14	DFA		0.549	0.568
15	Toluene		0.438	0.549
16	Caustic lye - 100 %	Azole group based products (Florasulam)	1.639	1.332
17	Methanol		0.998	0.717
18	30% HCl		2.344	2.197
19	MDC		1.030	1.114
20	SBS		0.603	0.574
21	ACN		0.331	0.291
22	IPA		0.487	0.391
23	Sodium Methoxide-25%		2.551	2.435
24	TBAHS		0.029	0.028
25	Common salt		0.259	0.269
26	Soda Ash		0.034	0.023
27	Triazinone	Azine group based products METRIBUZIN	1.047	0.000
28	DMS		0.447	0.000
29	Soda Ash		1.667	0.000
30	Caustic Lye-48%		0.005	0.002
31	Sulphuric Acid		1.300	0.000
32	TFP Acid		2.093	0.000
33	R Amine		0.072	0.000
34	S Amine		0.089	0.000
35	30% HCL	Cyhalothrin Acid	3.201	0.000
36	Caustic Lye 48%		1.500	0.000
37	Sodium Hypochlorite		14.088	0.000
38	Sodium Bi Carbonate		0.025	0.000
39	MIBK		1.636	0.000
40	HPPA	ESTER GROUP BASED PRODUCTS (CLODINAFOF)	0.000	0.6247
41	DFCP		0.000	0.5789
42	DMSO		0.000	0.3647
43	KOH		0.000	0.5405
44	Boric Acid		0.000	0.0837
45	30% HCL		0.900	0.8526
46	Toluene( Fresh)		0.000	0.0453
47	Thionyl Chloride		0.900	0.5113
48	Propargyl Alcohol		0.000	0.3071
49	Isopropyl Alcohol		0.900	0.05864
50	Tri Ethyl Amine		0.000	0.0874
51	Caustic Lye		0.900	0.5932
52	Caustic Flakes		0.000	0.0361
53	Soda Ash		0.900	0.0132
54	Toluene(Recovered)		0.000	0.345

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



# EC Compliance Report

## 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 154.65 m <sup>3</sup> /d.				
a)	Water	TPD	mg/L	
	Total Dissolved Solid	0.70542	4561	..
	Total Suspended Solid	0.00487	26.33	..
	Chemical Oxygen Demand	0.02124	137.33	..
	Biological Oxygen Demand	0.00580	37.50	..
	Ammonical Nitrogen	0.00054	3.48	..
b)	Air	TPD	mg/Nm <sup>3</sup>	
Sulphur Furnace	SPM	0.0026	23.67	..
	SOx	BDL	2.500	..
	NOx	0.0005	4.68	..
	Cl <sub>2</sub>	0.0000	0.402	..
	HCl	0.0002	1.419	..
	H <sub>2</sub> S	BDL	BDL	..
Vent Incinerator	SPM	0.0055	29.75	..
	SOx	BDL	3.833	..
	NOx	0.0037	20.65	..
	Cl <sub>2</sub>	BDL	BDL	..
	HCl	0.0002	1.16	..
	H <sub>2</sub> S	BDL	BDL	..
Boiler	SPM	0.031	37.92 mg/nm <sup>3</sup>	..
	SOx	0.010	13.21 ppm	..
	NOx	0.009	12.22 ppm	..





# EC Compliance Report

## PART-D

### Hazardous Wastes

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

Hazardous wastes	Total Quantity (kg)	
	During the previous financial year 2017-2018	During the current financial year 2018-2019
a) From Process		
Category Type of Waste		
(1) Recovered Sulphur	100,760	76960
(2) Used Oil	540	540
(3) Evaporation Salt	-	-
(4) Non Recyclable Plastic & Insulation Waste	41,440	61960
(5) Incineration Waste & Co Processing	115,980	177720
(6) Asbestos Sheet	91,225	50190
b) From Pollution Control facilities		32720
By products		
ETP Sludge	1,761,925	1296065
Sodium Hydro sulfide 30%		2887290
Hydrochloric Acid 30%		3537855
Phosphoric Acid		615165
Sodium Bisulphite Powder		1428720
Sodium Sulphite 30%		666480
Sodium Bisulphite Solution (30%)		2773555

## PART-E

### Solid Wastes

	Total Quantity in Kgs	
	During the previous financial year 2017-2018	During the current financial year 2018-2019
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	122395	94680
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 Bio-Fuel (Briquette) Boiler is in operation most of time and Natural Gas Boiler is used as stand by

(2) Action was taken to strengthened and improved Steam condensate recycling.

(3) To increase the yield of the products and reduce specific R.M., the frequent washing of Plant was reduced by optimizing the Utility supply. ( Cleansing of HE and Cooling Tower)





## EC Compliance Report

### PART - II

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

The plant has an Management System certified against the international Standard ISO-14001:2016 and OHSAS : 18001:2007 & ISO 9001:2016 which encompasses, inter alia, measures for cost reduction and conservation of resources

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

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

### PART - I

Any other particulars for improving the quality of the environment.

(1) The Sludge generated in the Additional Third Clarifier is taken in Filter Press to reduce the Suspended Particle in final discharge.  
(2) In ETP Cleaning of Primary Settling Tank, Equalization Tank, Final Treated Effluent Storage Tank etc were done to increase the effective volume and retention period.

(3) Permanent shed was provided to ETP sludge storage Area

Date: 24-Jul-19



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

Name: Abhay arora

Designation: Factory Manager

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

## ANNEXURE -1

## PRODUCTION CAPACITY (MT / YEAR)

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

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ANNEXURE -2  
CHARACTERISATION OF HAZARDOUS WASTE

SRL NO.	NAME	PHYSICAL FORM	WASTE CATEGORY No.	SP. GR.	% SOLIDS	CHEMICAL COMPOSITION	METHOD OF DISPOSAL
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. SEPPIL
2	RECOVERED SULFUR	Solid	D-1	---	---	Recovered Sulfur CAS No. 7704-34-9	Disposal to Common TSDF facility of M/s. BEIL, Ankleshwar
3	USED OIL	Liquid	5.1	0.94	---	Not Applicable	Dispose by Selling to registered Collection, Storage, and Transportation Reprocessors.
4	DISCARDED CONTAINERS, BAGS/LINERS	Solid	33.3	---	---	M.S., PVC, HDPE	Discarded containers sale to Authorised Traders. Bags/Liners disposed to Common TSDF facility of M/s. BEIL & SEPPIL
5	PROCESS WASTE / RESIDUE	Liquid / Residue	29.1	---	---	Mostly Organic compound	Stored in Drums and kept at dedicated area and disposed to common Incineration Facility developed by BEIL - Ankleshwar / SEPPIL Send to Cement Industry for Co-Processing
6	SOLID WASTE ( EVAPORATION SALT)	Solid	29.1	---	---	Mostly In-Organic compound	Disposal to Common TSDF facility of M/s. BEIL, Ankleshwar & M/s. SEPPIL
7	Sodium Hydro sulfide 30%	Liquid	---	---	---	NaSH - 30%	Sold to Authorized End users
8	Hydrochloric Acid 30%	Liquid	B-15	---	---	HCL - 30%	Sold to Authorized End users
9	Phosphoric Acid	Liquid	B-15	---	---	Phosphoric Acid-58 %	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