FMC An Agricultural Sciences Company

ISO 9001:2015
ISO 14001:2015
OHSAS 18001:2007
ID 9108627522

Cheminova India Limited
Technical Division
241,242/2 & 241/P,
GIDC Estate, Panoli - 394 116
Dist. Bharuch (Gujarat)
India.

Phone : +91 9033978613-17
fmc.com / fmc.in
CIN NO. U24100MH1986PLC038627

Date: 20-03-2020

Ref.: SGEPL/CIL-TECH /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 updated six monthly compliance report for our EC No. IA-J-11011/85/2018-IA-II(I); dated 25st November 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	Six monthly monitoring report data sheet
1	Compliance report of CC&A/CTO Amendment
2	Copy of EC Advertisement
3	Copy of existing EC, CC&A/CTO and CTE Amendment
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 (Technical Division)

CHEMINOVA INDIA LIMITED PANOLI

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 Secretatry, 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 (Technical Division)
(Manufacturing of Agrochemicals & their Intermediates)
Plot No. 241, 242/2, 241/P Notified GIDC Industrial Estate,
Panoli- 394 116,
Dist. Bharuch, State-Gujarat, India.

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

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A - Monitoring Report - DATA SHEET

Monitoring the Implementation of Environmental Safeguards
Ministry of environment & Forests
Regional Office (W), Bhopal
Six Monthly Monitoring Reports
PART - 1

No. SC/CIL-Tech/ EC-Datasheet/01-2020			
1	Project Type : River-Valley / Mining/ Industry / Thermal / Nuclear / Other (Specify}	:	Agrochemicals & their Intermediates
2	Name of the Project	:	**Expansion Of Agrochemicals & their Intermediates at Existing Unit M/s. Cheminova India Limited (Technical Division)**
3	Clearance Letter(s)/ OM No. & Date	:	IA-J-11011/85/2018-IA-II(I) Date: 25th November 2019
4	Location		
	a]. District (s)	:	Bharuch
	b]. State (s)	:	Gujarat
	c]. Latitude / Longitude	:	21°34'30.39"N/ 72°59'50.39"E
5	Address for Correspondence	:	Plot No. 241, 242/2, 241/P Notified GIDC Industrial Estate, Panoli- 394 116, Dist. Bharuch, State-Gujarat, India.
	a]. Address of Concerned Project Chief Engineer With Pin code & Telephone / Telex / Fax Numbers.	:	Mr. Abhay Arora Tel. 9033978613-17
	b]. Address of Executive Project Engineer / Manager (with Pin code / Fax Number)	:	Mr. Abhay Arora Tel. 9033978613-17
6	Salient Features		
	a]. Of the Project	:	As detailed below

Components	**Proposed Scenario**
EC No.	IA-J-11011/85/2018-IA-II(I)
Environmental Clearance accorded for -	**Product name attached in Annexure-1**
Total Power Requirement	3500 KVA
Source of Power	Captive Power Plant & DGVCL
Fresh Water requirement	261 KL/day
Source of Water Supply	GIDC water supply
Wastewater Generation	Total: 670.5 KL/day Industrial : 631 KL/day Domestic : 39.5 KL/day
Process Emissions	HCl, Chlorine & CO
Flue Gas Emission	Due to combustion of Natural gas, HSD in boiler, Incinerator.
Fuel Type	Natural Gas and H.S.D
Fuel Requirement	Natural Gas- 15500 Sm^3/day, H.S.D.- 4320 l/day

Man power	Total: 200 (Company employee) + 500 (Contract employee)
b]. Of the Environmental Management Plans	: As follows.

Sr. No.	Activity	Status
1	Formulation of EHS cell Constitutes EHS in charge, ETP super visor and operators, Lab chemist and assistants	EHS cell consists of EHS in charge, ETP super visor and operators, Lab chemist and assistants.
2	For Air Environment Management	
	• To monitor the ambient air quality parameters and flue gas emissions within premises and also in the nearby area regularly and to compare with the regulating standards so that any necessary corrective actions can be taken.	• Company maintains its own records and monitors the ambient air and flue gas emission within premises periodically. Monitoring of ambient air & flue gas analysis is done by Siddhi Green Excellence Pvt Ltd., Ankleshwar. Ambient air analysis results are provided in EC condition no. 22 of this report.
	• Work place monitoring to be carried out periodically to check fugitive emissions, if any.	• Work place monitoring to be carried out periodically by Siddhi Green Excellence Pvt Ltd., Ankleshwar.
	• To develop and maintain greenbelt, in and around the factory, for reducing the effect of air pollutants due to their deposition.	• Unit has developed & maintained greenbelt area inside the factory.
	• To follow proper loading and unloading practices to minimize dusting	• Unit is having closed system for loading and unloading of chemicals.
	• To maintain proper record for the fuel consumption, start-up time and duration of boiler operation towards energy conservation	• Unit is maintaining records for the fuel consumption, start-up time and duration of boiler operation towards energy conservation
3	For Water Environment Management	
	• To investigate possibilities of water reuse and recycling for reducing water consumption and wastewater generation	• Reuse and recycling options are being investigated together with feasibility of rainwater harvesting
	• Records of water consumption, effluent generation, effluent discharge, water characteristics, treated and untreated effluent characteristics to be maintained.	• Unit is maintaining records of water consumption, effluent generation, effluent discharge, water characteristics, treated and untreated effluent characteristics.
	• To monitor the adequacy and efficiency of ETP so that the effluent is given suitable treatment and the treated effluent meets specified norms of available CC&A of GPCB.	• The adequacy and efficiency of ETP is maintained well and the effluent is treated appropriately at all the stages. It is ensured that the treated effluent meets specified norms of as specified in CC&A of GPCB.
	• The effluent collection and discharge drainages, effluent handling and treatment systems to be maintained and regularly monitored to prevent leakages or sudden break-down.	• 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.
	• Proper house-keeping to be adopted to prevent spillages	• Good house-keeping have been

	and contaminated surface runoff going to storm water drains.	implemented by the unit to prevent spillages and contaminated surface runoff going to storm water drains.
4	For Hazardous / Non-hazardous waste management	
	• Proper storage and handling arrangements in compliance to the conditions of authorization granted by SPCB.	• Unit has a separate ware house for storage of raw materials, solvents and finished goods with proper handling equipments.
	• Proper signboards to be provided at relevant places.	• Signboards are provided at relevant places.
	• All the necessary regulatory procedures as per the amended Hazardous Waste Management & Handling Rules – 2003 to be followed and adhered with.	• Unit is following the same as per the amended Hazardous Waste Management & Handling Rules – 2016
	• The transportation of hazardous waste to the TSDF Site to be as per the guidelines and accompanied with Form-9.	• Unit is following guideline for transportation of hazardous waste to TSDF & CHWIF of M/s. BEIL.
	• Monthly records of generation, storage and disposal of hazardous waste should be maintained in a record register as per the format of Form-3 as per amended Hazardous Waste rules – 2003 and annual returns of disposal to be submitted to SPCB in prescribed form – 4 and form – 13.	• Monthly records of generation, storage and disposal of hazardous waste are maintained in a record register as per the format of Form-3 as per amended Hazardous Waste rules – 2003 and annual returns of disposal of all the hazardous waste are submitted to GPCB in prescribed forms – 4 and form – 13.

Note: Environment Statement – Form V (Financial year -2018-19) is attached as Annexure-5.

7	Production details during compliance period and (or) during the previous financial year	:	**Production Details**

Month	Quantity (MTM)
April 2019	19.46
May 2019	0.00
June 2019	0.00
July 2019	0.00
August 2019	0.00
September 2019	0.00
October 2019	0.00
November 2019	0.00
December 2019	0.00
January 2020	0.00

8	Break Up of the Project Area	:	Unit is located in G.I.D.C Panoli (Notified area)
	a]. Submergence area : forest & Non-forest		
	b]. Others		
9	Breakup of the project affected population with enumeration of those losing houses / dwelling units, only agricultural land, dwelling units & agricultural land & landless laborers / artisan.	:	Not applicable since unit is located in G.I.D.C Panoli (Notified area)
	a]. SC , ST / Adivasis	:	---
	b]. Others	:	---
	(Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey is carried out give details and years of survey)	:	---

10	Financial Details	:	
	a]. Project cost as originally planned and subsequent revised estimates and the year of price reference	:	Rs. 365.92 crore (For Proposed Expansion only)
	b]. Allocation made for environmental management plans with item wise and year wise break-up.	:	As follows

Sr.No.	Particulars	Recurring Cost Per Annum [Rs. In lakh]	Capital Cost (Rs. In lakh)
1	Air Pollution Control	200	565
2	Water Pollution Control	1260	925
3	Noise Pollution Control	0.5	0.5
4	Environment Monitoring & Management	90	98
5	Occupational Health & Safety	20	25
6	Green Belt development & maintenance	1.5	1.5
7	Solid waste management	5243	100
TOTAL Planned		**6815.0**	**1715**

	c]. Benefit cost ratio / Internal rate of return and the year of assessment	:	Not applicable
	d]. Whether (c) includes the cost of environmental management as shown in the above	:	Yes
	e]. Actual expenditure incurred on the project so far	:	--
	f] Actual expenditure incurred on the Environmental Management Plan so far		--
11	Forest land Requirement	:	Not applicable since unit is located in G.I.D.C Panoli (Notified area)
	a]. The status of approval for diversion of forest land for non-forestry use		--
	b]. The Status of clearing felling	:	--
	c]. The status of compensatory afforestation, if any		--
	d]. Comments on the viability & sustainability of compensatory afforestation programme in the light of actual field experience so far	:	--
12	The status of clear felling in non-forest areas (such as submergence area of reservoir, approach roads), if any with quantitative information.	:	Not applicable since unit is located in G.I.D.C Panoli (Notified area)
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 monitored by the MoEF&CC, Regional Office on Previous occasions, (if applicable)	:	20/09/2019
	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 27th January 2020 having File No. IA-J-11011/85/2018-IA-II(I) 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.	Copies of - EIA/EMP/Form-I. - Consent to Establish/Operate from GPCB - Recommendations of the Public Hearing, if any - The copy of Advertisement	- EIA/EMP/Form-I copies are attached with EC Compliance report. - CTO/CTE copies are attached as Annexure –3. - Not Applicable as unit is located in Notified GIDC Industrial Estate, Panoli - Copy of Advertisement is attached as Annexure –2.
IV.	The information in the enclosed Data-sheet.	Data sheet filled as above.

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

<table>
<tr><th>Sr. No.</th><th>Consent Condition Requirement</th><th>Compliance Status</th></tr>
<tr><td>1</td><td>Consent order No.: AWH-87335 Date of Issue: 25/07/2017, CCA amendment dated AWH-104796 Date of Issue: 10/12/2019 and valid up to 16/04/2022</td><td></td></tr>
<tr><td>2</td><td>The consent under Water Act-1974 for conveying the industrial effluent to the CETP of Ms/. NCTL for the treatment and disposal of treated effluent, the consent under Air Act-1981 & Authorization under Environmental (Protection) Act, 1986 shall be valid up to 16/04/2022 to operate industrial plant to manufacture following products:
<table>
<tr><th rowspan="2">SN</th><th rowspan="2">Name of Product</th><th colspan="3">Quantity (MT/Annum)</th><th rowspan="2">Remarks</th></tr>
<tr><th>Existing</th><th>Proposed</th><th>Total (After Change in Product Mix)</th></tr>
<tr><td>1.</td><td>ORGANO PHOSPHATE: -ACEPHATE TECH. (I), DICHLORVOS (I), CHLORPYRIFOS (I), QUINALPHOS (I), TRIAZOPHOS (I), PHOSALONE (I), OMETHOATE (I), PROTHIOFOS (I), TEMEFOS (I), PROFENOFOS (I), ETHION (I), ETHWEPHON (PGR), GLYPHOSATE (H), etc.</td><td>Either individual or total production of this group shall not exceed 800 MT/Annum</td><td>(-) 800</td><td>--</td><td>To be discontinued</td></tr>
<tr><td>2.</td><td>STROBILURIN: - AZOXYSTROBIN TECH. (F), DES-METHOXYAZOXY (DMA) (INT.) KRESOXIM METHYL (F), FLOUXASTROBIN (F), PYRACLOSTROBIN (F) etc.</td><td>Either individual or total production of this group shall not exceed 1200 MT/Annum</td><td>(-) 1200</td><td>--</td><td>To be discontinued</td></tr>
<tr><td>3.</td><td>NEONICOTINOID/AMIDE: - IMI DACLOPRID TECH (I), THIACLOPRID (I), ACETAMIPRID (I), BEFLUBUTAMIDE TECH (H), FLUBENDAMIDE (I), CHLORANTRANILIPROLE (I), RYNEXAPYR (I), CYMOXANIL (F), THIFLUZAMIDE (F), CARBOXIN (F), CAPTAN (F), PRETILACHLOR (H), PROPYZAMIDE (H), PETHOXAMIDE (H), SNA(INT.)-(2-AMINOSULFONYL-N,N-DIMETHYLNICOTINAMIDE), MST(INT.)-(2-METHOXYCARBONYL)THIOPHENE-3-SULFONAMIDE), FLUFENACET (H), BOSCALID</td><td>Either individual or total production of this group shall not exceed 225 MT/Annum</td><td>--</td><td>Either individual or total production of this group shall not exceed 225 MT/Annum</td><td>No change</td></tr>
</table></td><td>Unit is following the given condition as per the granted concent given by GPCB.</td></tr>
</table>

Sr. No.	Consent Condition Requirement						Compliance Status
		(F) etc.					
	4.	KETONE: -DIMETHOMORPH TECH. (F), CLETHODIM (H), BUTROXYDIM (H), SPIROMESIFEN (I), MESOTRIONE (H), SULCOTRIONE (H), IBP (INT.)-(ISOBUTYROPHENONE), PYMETROZINE (I) etc.	Either individual or total production of this group shall not exceed 60 MT/Annum	--	Either individual or total production of this group shall not exceed 60 MT/Annum	No change	
	5.	ETHER: - PROPARGITE TECH. (I), OXYFLUORFEN (H), ETOXAZOLE (I), EEA (INT.)-(2-ETHOXY ETHYL AMINE), S-CYNO-MPB (INT.) etc.	Either individual or total production of this group shall not exceed 60 MT/Annum	--	Either individual or total production of this group shall not exceed 60 MT/Annum	No change	
	6.	ANILINE: - PENDIMETHALIN TECH. (H), METALAXYL (F), FAMOXADONE (F), TRIFLURALIN (H), FIPA-OH (INT.) etc.	Either individual or total production of this group shall not exceed 60 MT/Annum	(-60)	--	To be discontinued	
	7.	ESTER/PYRETHROID: - FENOXAPROP-P-ETHYL TECH. (H), BIFENAZATE (I), QUIZALOFOP-P-ET (H), CLODINAFOP-PPG (H), ACRINATHRIN (I), BIFENTHRIN (I), CYHALOTHRIN (I), GAMMA-CYHALOTHRIN (I), LAMDA- CYHALOTHRIN (I), CYPERMETHRIN (I), AND ITS ANALOGS, DELTA-METHRIN (I), --- CYFLUTHRIN (I) AND ITS ANALOGS, PERMETHRIN (I), BIOALLETHRIN (I), FENVALERATE (I), IMIPROTHRIN (I) etc.	Either individual or total production of this group shall not exceed 150 MT/Annum	--	Either individual or total production of this group shall not exceed 150 MT/Annum	No change	
	8.	CARBAMATE & THIO BASED PRODUCTS: - CARTAP.HCL TECH. (I), THIODICARB (I), THIOPHANATE-ME (F), PROPINEB (F), METIRAM (F), THIRAM (F), ISOPROTHIOLANE TECH (I), THIOCYCLAM (I), PROTHIOCARB (F), FLUTIANIL (F) etc.	Either individual or total production of this group shall not exceed 100 MT/Annum	--	Either individual or total production of this group shall not exceed 100 MT/Annum	No change	

Sr. No.	Consent Condition Requirement						Compliance Status
	9.	QUATERNARY SALT AND OTHER SALTS, ACID BASED PRODUCTS: - MEPIQUAT CHLORIDE TECH. (I), CHLORMEQUAT CHLORIDE (I), OTHER SALTS: COPPER HYDROXIDE (BACTERICIDE,F), COPPER SULPHATE (ALGICIDE,F), etc., FLUPROPANATE-NA TECH (H) + HPAA (INT.)-(2-HYDROXYPHENYLACETIC ACID), BBA (INT.)-(BROMOBUTYRICACID), HPPA-INT.(2-(4-HYDROXYPHENOXY)PROPANATE), PICLORAM (H), DICAMBA (H), 2-CYANOPHENOL (INT.) etc.	Either individual or total production of this group shall not exceed 68 MT/Annum	--	Either individual or total production of this group shall not exceed 68 MT/Annum	No change	
	10.	TRIAZOLS: - 2,6 DICHLOROBENZOXAZOLE (INT.), ISOXAFLUTOLE (H), FLURASULAM (H), TDA (INT.) (TRIFLUOROMETHYLTHIADIAZOLE), FLUTRIAFOL TECH (F), PROTHICONAZOLE (F), SULFENTRAZONE (H), CARFENTRAZONE-ET (H) etc.	Either individual or total production of this group Sr. No. 11 & 12 shall not exceed 400 MT/Annum	--	Either individual or total production of this group Sr. No. 11 & 12 shall not exceed 400 MT/Annum	No change	
	11.	TRIAZOLS: - FIPRONIL TECH **(I)**, PROPICONAZOLE **(F)**, EPOXYCONAZOLE **(F)**, TEBUCONAZOLE **(F)**, DIFENOCONAZOLE **(F)**, HEXACONAZOLE **(F)**, TRICYCLAZOLE **(F)**, MYCLOBUTANIL **(F)**, FLUSILAZOLE **(F)**, PACLOBUTRAZOLE (PGR), THIAMETHOXAM **(I)**, CHLOROTHALONIL **(F)**, TRIADIMEFON **(F)**, ISOXADIFEN-ET (SF)				No change	
	12.	HETROCYCLIC (PYRIMIDINE/PYRIDINE/TRIAZINE): - BISPYRIBAC-NA TECH. **(H)**, PIRIMICARB **(I)**, PYRITHIOBAC-NA **(H)**, FLUMETSULAM **(H)**, CYPRODINIL **(F)**, FLORASULAM **(H)**, PENOXSULAM **(H)**, DCP **(INT.)**-(4,6-	Either individual or total production of this group Sr. No. 13 & 14 shall not exceed 185 MT/Annum	--	Either individual or total production of this group Sr. No. 13 & 14 shall not exceed 185 MT/Annum	No change	

Sr. No.	Consent Condition Requirement						Compliance Status
		DICHLOROPYRIMIDINE), ACMP **(INT.)**-(2-AMINO-4-CHLORO-6-METHOXYPYRIMIDINE), IMAZETHAPYR TECH. **(H)**, PYRIDALYL TECH **(I)**, DIFLUFENICAN **(H)**, CLOQUINTOCET-MEXYL(SF)					
	13.	HETROCYCLIC (PYRIMIDINE/PYRIDINE/TRIAZINE): - FLUAZINAM **(F)**, FENPYROXIMATE TECH. **(I)**, METRIBUZIN **(H)**, AMITRAZ **(I)**, CLOFENTEZINE **(I)**, MMMT **(INT.)**-(2-METHOXY-4-METHYL-6-METHYLAMINO-1,3,5-TRIAZINE, METOXYFENOZIDE **(I)**, FENCHLORIM (SF), 2-HYDROXY-3,5,6-TRYCHLOROPYRIDINE & ITS SODIUM SALT (**INT.** OF CHLORPYRIPHOS) etc.				Either individual or total production of this group Sr. No. 13 & 14 shall not exceed 185 MT/Annum	
	14.	UREA/SULPHONYL UREA: - CHLORIMURON-ET TECH. **(H)**, BUPROFEZIN TECH. **(I)**, INDOXACARB **(I)**, NOVALURON **(I)**, LUFENURON **(I)**, DIAFENTHIURON **(I)**, AMICARBAZONE **(H)**, FLUCARBAZONE **(H)**, THIADIAZURON (PGR), HEXYTHIAZOX **(I)**, LINURON **(H)**, DIURON **(H)**, TEFLUTHRIN **(I)**, METSULFURON-METHYL **(H)**	Either individual or total production of this group Sr. No. 15 & 16 shall not exceed 225 MT/Annum	(-225)	Either individual or total production of this group Sr. No. 15 & 16 shall not exceed 225 MT/Annum	To be discontinued	
	15.	UREA/SULPHONYL UREA: - THIFENSULFURON-METHYL **(H)**, TRIBURON-METHYL **(H)**, RIMSULFURON **(H)**, IODOSULFURON **(H)**, DIAMURON **(H)**, CHLORSULFURON **(H)**, PYRAZOLESULFURON **(H)**, PYRAZOLESULFURON-ETHYL **(H)** etc.					
	16.	Ryanxypyr	--	935	935	New Product	
	17.	Isoxazolidinone sodium solution	--			New	

Sr. No.	Consent Condition Requirement	Compliance Status

					Product
18.	4S Zeta Cypermethrin	--			New Product
19.	F-2700 Zeta Cypermethrin	--			New Product
20.	NATURAL GAS BASED CAPTIVE POWER PLANT	2.04		2.04 Mega Watt Hour	No change
	Total	3533	(-)550	2983	--

	SPECIFIC CONDITIONS Unit shall not manufacture any product which generated hazardous waste like ammonium sulphate / ammonium solution / sodium chloride / sodium sulphate / potassium chloride / potassium sulphate / acetic acid / sodium acetate etc. till unit make any MoU with end user who is having permission under rule 9 & authorization to receive this waste. Unit shall also submit MoU copies to Board.	Noted. Unit will ensure Rule-9 permission and MOU prior sending the mentioned waste.
a.	**Total production shall not exceed 2983 MT/Month in any case.**	It will be ensured that the total production will not exceed 2983 MT/month.
b.	**There shall be no change in mode of disposal of waste water.**	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

<table>
<tr><th>Sr. No.</th><th>Consent Condition Requirement</th><th>Compliance Status</th></tr>
<tr><td></td><td></td><td>cement industry for co-processing at first and later other options will be opted.</td></tr>
<tr><td>g.</td><td>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.</td><td>Spent solvent management guidelines will be followed and MOU with external distillation units will be done. Required forms will be filed.</td></tr>
<tr><td>h.</td><td>There shall not be increase in pollution load due to proposed change in product mix.</td><td>There will not be increase in pollution load due to proposed change in product mix.</td></tr>
<tr><td>i.</td><td>There shall not be any change in plant building, equipments & machineries to manufacture the proposed new products after change in product mix.</td><td>No changes in plant building, equipment’s & machineries will be done for manufacturing the proposed new products after change in product mix.</td></tr>
<tr><td>j.</td><td>In the case of submission of the false or misleading data, this CTE amendment will be forfeited immediately.</td><td>Noted. Unit shall following the given condition.</td></tr>
<tr><td>k.</td><td>Unit shall manufacture cypermethrin based product i.e. 4S Zeta Cypermethrin & f-2700 Zeta Cypermethrin from Cypermethrin with max. Production of 150 MTPA.</td><td>Noted. Unit shall following the given condition.</td></tr>
<tr><td>l.</td><td>When Cypermethrine (150 MTPA) and new product Deravitaves of Cypermethrin at 18 and 19 (150 MTPA) to be manufactured product other than Cypermethrin at group 7 (total 150 MTPA) cannot be manufactured.</td><td>Noted. Unit shall following the given condition.</td></tr>
<tr><td>m.</td><td>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.</td><td>Noted. Unit shall following the given condition.</td></tr>
<tr><td>[A]</td><td><u>Additional Conditions Under Air Act::</u></td><td></td></tr>
<tr><td>a)</td><td>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^3</td><td>120 mg/Nm^3</td></tr>
<tr><td>SO_2</td><td>100 PPM</td><td>80 PPM</td></tr>
<tr><td>NOx</td><td>50 PPM</td><td>40 PPM</td></tr>
</table></td><td>Noted.
Unit will adhere to stringent air pollutants standards as defined in consent.</td></tr>
</table>

<table>
<tr><th>Sr. No.</th><th>Consent Condition Requirement</th><th>Compliance Status</th></tr>
<tr><td>b)</td><td>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 <3</td><td>Multi Cyclone + Water Scrubber</td></tr>
<tr><td>3 to <6</td><td>Bag filter + Water Scrubber</td></tr>
<tr><td>≥ 6</td><td>ESP + Water Scrubber</td></tr>
</table></td><td>Noted. Unit shall following the given condition.</td></tr>
<tr><td>c)</td><td>Unit shall provide at least two stage scrubbing system of appropriate media for the control of the process gas emission.</td><td>All the scrubbers are equipped with double stage scrubbing system with appropriate media.</td></tr>
<tr><td>d)</td><td>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)</td><td>Noted.</td></tr>
<tr><td>e)</td><td>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.</td><td>Noted. Unit shall following the given condition.</td></tr>
<tr><td>f)</td><td>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.)</td><td>Noted. All the applicable SOP's published by GPCB/CPCB for effective fugitive emissions will be followed.</td></tr>
<tr><td>g)</td><td>Unit shall take adequate measure 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.</td><td>Noted. Odor control measures are in place to control odor nuisance from specific activities.</td></tr>
<tr><td>h)</td><td>Unit shall not use Pet-coke, furnace oil, LSHS as a fuel.</td><td>Unit is using only natural gas and H.S.D.</td></tr>
<tr><td>i)</td><td>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.)</td><td>Not applicable.</td></tr>
<tr><td>j)</td><td>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.</td><td>Complied.
Green belt development is in</td></tr>
</table>

Sr. No.	Consent Condition Requirement	Compliance Status
		progress outside premises by acquiring land given by GIDC. 27% green belt of the total plot area is already available within premises
k)	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.
[B]	**Additional Conditions Under The Water Act::**	
a)	Unit shall only used 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.
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.	Not applicable as the Industry is a member of CETP.
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.	Continuous monitoring of effluent quality and quantity is done as per the CPCB guidelines for relevant parameters.
d)	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). After receipt of approval from the authorities same will be complied. Meanwhile on site, roof top rain water harvesting plan is in progress.
e)	The unit shall explore Techno-Economic feasibility of Zero Liquid Discharge (ZLD) and if feasible, ZLD should be adopted.	Noted.

Sr. No.	Consent Condition Requirement	Compliance Status
[C]	**Additional Conditions Under The Hazardous Wastes Management Rules:**	
a)	Unit shall strictly carry out handling, storage and disposal of fly-ash, slag, red-mud, de-inking sludge etc. (High Volume- Low Effect Wastes) as per prevailing guidelines and its disposal at designated locations approved by the Board.	Noted. Not applicable. In case of generation of such type of waste handling, storage and disposal will be done as per prevailing guidelines at designated locations.
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.	Noted.
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.	Noted. Unit shall following the given condition.
d)	Unit shall carry out transportation of hazardous wastes through GPS mounted vehicles only.	All the transportation of hazardous wastes will be done 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.	Noted. It will be implemented.
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.	Noted. It will be implemented
	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.	Complied.
3	**CONDITION UNDER THE WATER ACT:**	
	SPECIFIC CONDITION 1. Mother liquor 21.19 m^3 / day shall be incinerated to common incineration facility at BEIL or SEPPL or GSPL, Palsana and / or co-processing in cement industries.	Complied. Unit is following the given condition thoroughly.
3.1	The condition No. 3.3 for water consumption under Water Act of the CCA order No. AWH-87335, issued vide letter no. GPCB/ANK/CCA-138(10)/ID-15015/419991, dated 10/08/2017 is amended shall now be read as under. a) Domestic : 50 KL/Day (Existing 50 KLD + Proposed Nil)	Complied.

<table>
<tr><th>Sr. No.</th><th>Consent Condition Requirement</th><th>Compliance Status</th></tr>
<tr><td></td><td>b) Industrial : 260.20 KL/Day (Existing 265 KLD - Proposed 4.8 KLD)
c) Total: 310.2 KL/Day (Existing 315 KLD - Proposed 4.8 KLD)</td><td></td></tr>
<tr><td>3.2</td><td>The condition No. 3.1 & 3.2 for wastewater Generation under Water Act of the CCA order No. AWH-87335, issued vide letter no. GPCB/ANK/CCA-138(10)/ID-15015/419991, dated 10/08/2017 is amended shall now be read as under.
a) Domestic : 33.2 KL/Day (Existing 33.2 KLD + Proposed Nil)
b) Industrial : 71.2 KL/Day (Existing 85.91 KLD - Proposed 14.7 KLD)
c) Total: 104.4 KL/Day (Existing 119.11 KLD - Proposed 14.7 KLD)</td><td>Complied.</td></tr>
<tr><td>3.3</td><td>71.2 KLD treated effluent shall be discharged to NCTL by underground drainage line and 33.2 KLD domestic sewage shall be disposed off through septic tank/soak pit system as per previous CCA conditions</td><td>Complied.</td></tr>
<tr><td>3.3</td><td>Sewage shall be disposed off through septic tank/soak pit system or shall be treated separately in Sewage Treatment Plant (STP) to conform the following standards and treated sewage shall be utilized on land for irrigation/ plantation.
<table>
<tr><th>Sr. no.</th><th>Parameters</th><th>Permissible limit</th></tr>
<tr><td>1</td><td>Biochemical Oxygen Demand, BOD_3, 27°C</td><td>Less than 20 mg/L</td></tr>
<tr><td>2</td><td>Total Suspended Solids</td><td>Less than 30 mg/L</td></tr>
<tr><td>3</td><td>Total Residual Chlorine</td><td>Minimum 0.5 ppm</td></tr>
</table>
Sewage shall be treated in ETP along with Industrial effluent and discharged into GIDC underground drainage system and conveyed to FETP (NCTL).</td><td></td></tr>
<tr><td>3.4</td><td>The quality of industrial effluent shall conform to the standards (as per GPCB norms), whichever is applicable.
<table>
<tr><th>Sr no.</th><th>PARAMETERS</th><th>PERMISSIBLE LIMIT</th></tr>
<tr><td>1</td><td>pH</td><td>6.5 to 8.5</td></tr>
<tr><td>2</td><td>Temperature</td><td>40°C</td></tr>
<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_3, 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</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>
</table></td><td>Complied.
Effluent conforms the norms as per the mentioned permissible limits.</td></tr>
</table>

<table>
<tr><th>Sr. No.</th><th>Consent Condition Requirement</th><th>Compliance Status</th></tr>
<tr><td></td><td>
<table>
<tr><td>15</td><td>Sulphates</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>15mg/l</td></tr>
<tr><td>18</td><td>Hexavalent Chromium (as Cr +6)</td><td>0.1 mg/l</td></tr>
<tr><td>19</td><td>Total Chromium (as Cr)</td><td>2 mg/l</td></tr>
<tr><td>20</td><td>Copper (as Cu)</td><td>3 mg/l</td></tr>
<tr><td>21</td><td>Nickel (as Ni)</td><td>3 mg/l</td></tr>
<tr><td>22</td><td>Zinc (as Zn)</td><td>15 mg/l</td></tr>
<tr><td>23</td><td>Iron (as Fe)</td><td>3 mg/l</td></tr>
<tr><td>24</td><td>Manganese (as Nn)</td><td>2 mg/l</td></tr>
<tr><td>25</td><td>Mercury (as Hg)</td><td>0.01 mg/l</td></tr>
<tr><td>26</td><td>Lead (as Pb)</td><td>0.1 mg/l</td></tr>
<tr><td>27</td><td>Arsenic (as As)</td><td>0.2 mg/l</td></tr>
<tr><td>28</td><td>Venedium (as V)</td><td>0.2 mg/l</td></tr>
<tr><td>29</td><td>Cadmium (as Cd)</td><td>0.05 mg/l</td></tr>
<tr><td>30</td><td>Selenium (as Se)</td><td>0.05 mg/l</td></tr>
<tr><td>31</td><td>Bio-assay test</td><td>90 % survival of fish after 96 hrs in 100 % effluent</td></tr>
<tr><td>32</td><td>Insecticides/Pesticides</td><td>Absent</td></tr>
</table>
</td><td></td></tr>
<tr><td>3.5</td><td>The effluent conforming to the above standards shall be discharged into G.I.D.C. undersigned drainage system and conveyed to FETP (NCTL) which ultimately leads to deep sea for final disposal through pipeline.</td><td>Complied. Unit is following the given condition.</td></tr>
<tr><td>3.6</td><td>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</td><td>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).</td></tr>
<tr><td>3.7</td><td>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.</td><td>Noted</td></tr>
<tr><td>3.8</td><td>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.</td><td>Complied</td></tr>
<tr><td>3.9</td><td>Magnetic flow meters shall be installed at the inlet & outlet of effluent collection tanks / ETP to measure the quantity of effluent</td><td>Complied.</td></tr>
</table>

Sr. No.	Consent Condition Requirement	Compliance Status
	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.	Complied.
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.	Complied.
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.	Complied.
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.	Complied.
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.	Complied.
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.	Complied.
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.	Complied.
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.	Complied.
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 temperature & flow should be recorded every day & submitted to GPCB on monthly basis.	Incinerator is not in operation since C.Y. 2014. Details of MEE are submitted 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.	Complied. Unit has provided storm water drainage.
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.	Complied
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.	Noted
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	Complied

<table>
<tr><th>Sr. No.</th><th>Consent Condition Requirement</th><th>Compliance Status</th></tr>
<tr><td></td><td>exercise of environmental audit and preparation of environmental statements.</td><td></td></tr>
<tr><td>3.23</td><td>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.</td><td>Complied.</td></tr>
<tr><td>3.24</td><td>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.</td><td>Complied</td></tr>
<tr><td>3.25</td><td>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.</td><td>Noted</td></tr>
<tr><td>3.26</td><td>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.</td><td>Noted</td></tr>
<tr><td>4</td><td>CONDITIONS UNDER THE AIR ACT.</td><td></td></tr>
<tr><td>4.1</td><td>Unit shall use fuel as specified in this consent and the flue gas emission through stack shall conform to the standards.
<table>
<tr><th>Sr. No.</th><th>Stack ID / Stack Attached to</th><th>Capacity / Remarks</th><th>Name of Fuel</th><th>Quantity of Fuel</th><th>Air Pollution Control Measures (APCM)</th><th>Stack Height (Mt)</th><th>Parameter</th><th>Perm. limit</th><th>unit</th></tr>
<tr><td>1</td><td>41726-Boiler</td><td>WHRB-Captive Power Plant</td><td>Natural Gas</td><td>5500 Sm3/day</td><td>Not Applicable</td><td>30</td><td>PM
SO2
NOX</td><td>150
100
50</td><td>mg/Nm3
ppm
ppm</td></tr>
<tr><td>2</td><td>8820 - Boiler</td><td>Boiler capacity (10 TPH & 5 TPH)</td><td>Natural gas or Furnace oil</td><td>7000 Sm3/day or 4000 kg/day</td><td>Not Applicable</td><td>30</td><td>PM
SO2
NOX</td><td>150
100
50</td><td>mg/Nm3
ppm
ppm</td></tr>
<tr><td>3</td><td>8822 - D.G. Set</td><td>D.G. Set (cap. - 1250 KVA)</td><td>H.S.D</td><td>2160 l/day</td><td>Not Applicable</td><td>11</td><td>PM
SO2
NOX</td><td>150
100
50</td><td>mg/Nm3
ppm
ppm</td></tr>
<tr><td>4</td><td>8823 - Incinerator</td><td>Common vent of New and Old Incinerator with Two stage Caustic Scrubbing system</td><td>Natural Gas</td><td>3000 Sm3/day</td><td>Alkali Scrubber</td><td>45</td><td colspan="2">Parameters as mentioned below</td><td></td></tr>
</table>
Treated flue gas emissions discharge through stack of Incinerator to atmosphere shall always be less than or equal to the following</td><td>Complied.</td></tr>
</table>

<table>
<tr><th>Sr. No.</th><th>Consent Condition Requirement</th><th>Compliance Status</th></tr>
<tr><td></td><td>parameter specific emission standards.
<table>
<tr><th>Parameters</th><th>Emision Standard</th><th>Sampling Duration</th></tr>
<tr><td>Cd + Th + their compounds</td><td>0.05 mg/Nm^3</td><td>Sampling time anywhere between 30 minutes and 8 hours</td></tr>
<tr><td>CO</td><td>100 mg/Nm^3</td><td>30 minutes</td></tr>
<tr><td>CO</td><td>50 mg/Nm^3</td><td>Standard refers to daily average value</td></tr>
<tr><td>HCl</td><td>50 mg/Nm^3</td><td>30 minutes</td></tr>
<tr><td>HF</td><td>4 mg/Nm^3</td><td>30 minutes</td></tr>
<tr><td>Hg and Its compounds</td><td>0.05 mg/Nm^3</td><td>Sampling time anywhere between 30 minutes and 8 hours</td></tr>
<tr><td>NOx (NO and NO2 expressed as NO2)</td><td>400 mg/Nm^3</td><td>30 minutes</td></tr>
<tr><td>Particulates</td><td>50 mg/Nm^3</td><td>30 minutes</td></tr>
<tr><td>Sb + As + Pb + Cr + Co + Cu + Mn + Ni + V + their compounds</td><td>0.5 mg/Nm^3</td><td>Sampling time anywhere between 30 minutes and 8 hours</td></tr>
<tr><td>SO_2</td><td>200 mg/Nm^3</td><td>30 minutes</td></tr>
<tr><td>Total dioxins and furans</td><td>0.1 mg TEQ/ Nm^3</td><td>6-8 hours sampling. Please refer guidelines for 17 concerned congeners for toxic equivalence values to arrive to total toxic equivalence.</td></tr>
<tr><td>Total Organic Carbon</td><td>20 mg/Nm^3</td><td>30 minutes</td></tr>
<tr><td colspan="3">Note: All values of outlet parameters of incinerator shall be corrected to 11% oxygen in a dry basis.</td></tr>
</table></td><td></td></tr>
<tr><td>4.2</td><td>The process emission through various stacks / vent of reactors, process, vessel shall conform to the following standards:
<table>
<tr><th>Sr. No.</th><th>Stack Attached to</th><th>Source</th><th>Air Pollution Control Measures (APCM)</th><th>Stack Height in Mt. (From G.L.)</th><th>Parameter & Permissible limits</th></tr>
<tr><td>1</td><td>43940-Reaction Vessels</td><td>Reaction vessel of AZOXY Plant with caustic scrubbing system</td><td>Alkali Scrubber</td><td>25</td><td>HCl- 20 mg/Nm^3
Chlorine- 9 mg/Nm^3</td></tr>
<tr><td>2</td><td>43939-Reaction Vessels</td><td>Reaction vessel of ACP Plant with Ozone treatment followed by Hypo scrubber & Carbon bed</td><td>Scrubber</td><td>25</td><td>HCl- 20 mg/Nm^3
Chlorine- 9 mg/Nm^3</td></tr>
</table></td><td>Complied</td></tr>
<tr><td>4.3</td><td>The concentration of the following parameters in the ambient air within the premises of the unit shall not exceed the limits specified hereunder.
<table>
<tr><th rowspan="2">Sr.no.</th><th rowspan="2">Parameters</th><th colspan="2">Permissible limit (microgram/m3)</th></tr>
<tr><th>Annual</th><th>24 hours average</th></tr>
<tr><td>1</td><td>Particulate matter (PM_{10})</td><td>60</td><td>100</td></tr>
<tr><td>2</td><td>Particulate matter ($PM_{2.5}$)</td><td>40</td><td>60</td></tr>
<tr><td>3</td><td>Oxides of Sulphur (SO_x)</td><td>50</td><td>80</td></tr>
<tr><td>4</td><td>Oxides of Nitrogen(NO_x)</td><td>40</td><td>80</td></tr>
</table></td><td>Complied</td></tr>
</table>

<table>
<tr><th>Sr. No.</th><th>Consent Condition Requirement</th><th>Compliance Status</th></tr>
<tr><td></td><td>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.</td><td></td></tr>
<tr><td>4.4</td><td>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.</td><td>Complied</td></tr>
<tr><td>4.5</td><td>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.</td><td>Noted</td></tr>
<tr><td>4.6</td><td>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.</td><td>Complied</td></tr>
<tr><td>4.7</td><td>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 recko ned in between 6 a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.</td><td>Complied</td></tr>
<tr><td>4.8</td><td>All efforts shall be made to control VOC emissions and odor problem, if any.</td><td>Complied</td></tr>
<tr><td>5.</td><td>AUTHORISATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES:</td><td></td></tr>
<tr><td>5.1</td><td>Number of authorization: AWH-87335 date of issue 25/07/2017</td><td>Noted</td></tr>
<tr><td>5.2</td><td>M/s. Cheminova (India) Ltd. (Tech. Div) is granted an authorization to operate facility for following hazardous waste on the situated at PLOT No. : 241 GIDC ESTATE Panoli DIST: Bharuch
<table>
<tr><th>SN</th><th>Name of hazardous waste</th><th>Sch</th><th>Cat.</th><th>Qty MT / year</th><th>Facility</th><th>Mode of disposal & remarks</th></tr>
<tr><td>1.</td><td>Spent Solvents</td><td>I</td><td>20.2</td><td>500</td><td>Co-processing, Collection, Recycling, Incineration, Disposal, Reuse, Recovery, Storage, Transportation</td><td>Spent Solvent (MDC, EA, Acetone etc.): Recover & Reuse within industrial unit OR incineration to CHWIF at BEIL/ SEPPL/own incinerator / GSPL Palsana / RSPL / co-processing in cement industries. OR Disposal by Sell out to authorized users having rule 9 & authorization</td></tr>
<tr><td>2.</td><td>Spent Solvents</td><td>I</td><td>20.2</td><td>1200</td><td>Co-processing, Collection, Recycling, Incineration, Disposal, Reuse, Recovery, Storage, Transportation</td><td>Stripped Solvent from Stripper: Recover & Reuse within industrial unit OR incineration to CHWIF at BEIL/ SEPPL/own incinerator OR Disposal by Sell out to authorized users having rule 9 & authorization</td></tr>
<tr><td>3.</td><td>Process waste or resiudes</td><td>I</td><td>29.1</td><td>2311</td><td>Co-processing, Collection, Generation Incineration,</td><td>Process Waste: 2160 MT/Year of Tech. Div. + 151 MT/Year of Fml. Div. Sister Unit): Disposal to Common</td></tr>
</table></td><td>Complied. Unit is following the given condition.</td></tr>
</table>

<table>
<tr><th>Sr. No.</th><th colspan="8">Consent Condition Requirement</th><th>Compliance Status</th></tr>
<tr><td></td><td colspan="8"><table>
<tr><td></td><td></td><td></td><td></td><td></td><td>Disposal, Storage, Transportation</td><td>CHWIF Facility BEIL/SEPPL/GSPL Palsana/RSPL /Co-processing in cement industries</td></tr>
<tr><td>4.</td><td>Spent Acids</td><td>I</td><td>29.6</td><td>16524</td><td>Collection, Disposal, Storage, Transportation</td><td>Acetic Acid / Sodium Acetate/Organic Byproducts etc: Disposal by selling out to authorized users who are having authorization with valid CCA and rule 9 permission to receive this waste or Disposal to common CHWIF facility BEIL / SEPPL / GSPL Palsana / RSPL.</td></tr>
<tr><td>5.</td><td>Empty barrels/ containers/ liners contaminated with hazardous chemicals / wastes</td><td>I</td><td>33.1</td><td>362.11</td><td>Collection, Decontamination, Generation, Disposal, Reuse, Storage, Transportation</td><td>Disposal by sent it to authorized decontamination facility / recycler or reuse or send back to supplier or send it to common TSDF / CHWIF facility at BEIL / SEPPL</td></tr>
<tr><td>6.</td><td>Chemical sludge from waste water treatment</td><td>I</td><td>35.3</td><td>305</td><td>Collection, Disposal, Storage, Transportation</td><td>Chemical sludge from waste water treatment includes ETP Sludge: Disposal at TSDF –BEIL / SEPPL</td></tr>
<tr><td>7.</td><td>Chemical sludge from waste water treatment</td><td>I</td><td>35.3</td><td>1525</td><td>Collection, Disposal, Storage, Transportation</td><td>Evaporation sludge (1525 MT / year) : Disposal at TSDF –BEIL / SEPPL</td></tr>
<tr><td>8.</td><td>Ash from incinerator and flue gas cleaning residue</td><td>I</td><td>37.2</td><td>720</td><td>Collection, Disposal, Storage, Transportation</td><td>Incinerator Ash: Disposal to Common TSDF facility BEIL/ SEPPL</td></tr>
<tr><td>9.</td><td>Used or Spent Oil</td><td>I</td><td>5.1</td><td>0.36</td><td>Collection, Disposal, Reuse, Storage, Transportation</td><td>Disposal by Reuse in plant & Machinery as lubricant or selling it to authorized refiners / recycler</td></tr>
<tr><td>10.</td><td>Salts of Per-Acids</td><td>II</td><td>B36</td><td>18864</td><td>Collection, Disposal, Storage, Transportation</td><td>Ammonium Sulphate / Ammonia Solution / Sodium Chloride / Sodium Sulfate / Potassium Chloride / Potassium Sulfate: Disposal by selling out to authorized users having rule 9 & authorization in valid CCA</td></tr>
</table></td><td></td></tr>
<tr><td>5.3</td><td colspan="8">The authorization is granted to operate a facility as above.</td><td>Noted</td></tr>
<tr><td>5.4</td><td colspan="8">The authorization shall be in force for a period uo to 16/04/2022.</td><td>Noted</td></tr>
<tr><td>5.5</td><td colspan="8">The authorization is subjected to the conditions stated below and such other conditions as may be specifie d in the rules from time to time under the environment (protection) act – 1986.</td><td>Noted</td></tr>
</table>

Sr. No.	Consent Condition Requirement	Compliance Status
6	**TERMS AND CONDITIONS OF AUTHORISATION :**	
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.	Complied
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.	Complied
6.4	Any unauthorized 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.	Noted
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.	Noted
6.12	An application for the renewal of an authorization shall be made as laid down under Hazardous & Other Wastes (Management and Transboundary Movement) Rules – 2016.	Noted
6.13	Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.	Noted
6.14	Annual return shall be filed by June 30th for the period ensuring 31st March of the year.	Complied
6.15	Unit shall have to display the relevant information with regard to hazardous waste as indicated in the Court's order in W. P. No. 657 of 1995 dated 14th October 2003.	Complied

Annexure 2 - EC Advertisement copy

English

PUBLIC NOTICE
ENVIRONMENTAL CLEARANCE

It is hereby informed that the Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, Jorbagh Road, New Delhi has accorded Environmental Clearance for proposed expansion in existing premises for Agrochemicals and their Intermediates manufacturing unit of **M/s Cheminova India Limited (Technical Division)** at Plot nos. 241,242/2,241/P, Notified GIDC Industrial Estate, Panoli - 394 116, Ta. Ankleshwar Dist Bharuch, State Gujarat, Vide letter dated 25/11/2019 [F.NO. IA-J-11011/85/2018-IA-II(I)] under the provision of EIA Notification dated 14th September 2006.

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

Dated 26/11/2019 **Authorized Signatory--SD--**

Gujarati

જાહેર સૂચના	પર્યાવરણીય મંજૂરી

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

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

તારીખઃ ૨૬/૧૧/૨૦૧૯ સહીઃ--

Annexure 3 -Copy of existing EC, NOC/CTE and CC&A/CTO

EC Copy

By Speed Post/Online

F. No. IA-J-11011/85/2018-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(IA-II Section)

Indira Paryavaran Bhawan
Jorbagh Road, New Delhi - 3

Dated: 25th November, 2019

To

M/s Cheminova India Limited
Plot Nos. 241, 242/2, 241/P
GIDC Industrial Estate, Panoli
District Bharuch (Gujarat)
Email: anil.shah@fmc.com

Sub: Expansion of agrochemicals and their intermediates from 3533 TPA to 15583 TPA at Plot Nos. 241, 242/2, 241/P, GIDC Industrial Estate, Panoli, Ankleshwar, District Bharuch (Gujarat) by M/s Cheminova India Limited (Technical Division) - Environmental Clearance - reg.

Sir,

This has reference to your proposal No. IA/GJ/IND2/89462/1997 dated 20th May, 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 agrochemicals and their intermediates from 3533 TPA to 15583 TPA by M/s Cheminova India Limited (Technical Division) in an area of 40476.94 sqm located at Plot Nos. 241, 242/2, 241/P, GIDC Industrial Estate, Panoli, Ankleshwar, District Bharuch (Gujarat).

3. The details of products are as under:-

S. No	Name of product*	Existing (TPA)	Proposed (TPA)	Total (TPA)
1.	Organo Phosphate: -Acephate Tech. (I),Dichlorvos (I), Chlorpyrifos (I), Quinalphos (I), Triazophos(I), Phosalone (I), Omethoate (I), Prothiofos (I), Temefos (I), Profenofos (I), Ethion (I), Ethwephon (Pgr), Glyphosate (H), etc	800 TPA	---	800 TPA
2.	Strobilurin: - Azoxystrobin Tech. (F), Des-Methoxyazoxy (DMA) (Int.) Kresoxim Methyl (F), Flouxastrobin (F), Pyraclostrobin (F).	1200 TPA	---	1200 TPA
3.	Neonicotinoid/Amide: - Imidacloprid Tech (I), Thiacloprid (I), Acetamiprid (I), Beflubutamide Tech (H), Flubendamide (I), Chlorantraniliprole (I), Rynexapyr (I), Cymoxanil (F), Thifluzamide (F), Carboxin (F), Captan (F), Pretilachlor	225 TPA	---	225 TPA

	(H), Propyzamide (H), Pethoxamide (H), SNA(Int.), (2-Aminosulfonyl-N,N-Dimethylnicotinamide), MST (Int.), (2-Methoxycarbonyl) Thiophene-3-Sulfonamide), Flufenacet (H), Boscalid (F) etc.			
4.	Ketone: -Dimethomorph Tech. (F), Clethodim (H), Butroxydim (H), Spiromesifen (I), Mesotrione (H), Sulcotrione (H), IBP (Int.), (Isobutyrophenone), Pymetrozine (I) etc.	60 TPA	---	60 TPA
5.	Ether: - Propargite Tech. (I), Oxyfluorfen (H), Etoxazole (I), EEA (Int.)-(2-Ethoxy Ethyl Amine), S-Cyno-MPB (Int.) etc.	60 TPA	---	60 TPA
6.	Aniline: - Pendimethalin Tech. (H), Metalaxyl (F), Famoxadone (F), Trifluralin (H), FIPA-OH (Int.) etc.	60 TPA	---	60 TPA
7.	Ester/Pyrethroid: - Fenoxaprop-P-Ethyl Tech. (H), Bifenazate (I), Quizalofop-P-ET (H), Clodinafop-PPG (H), Acrinathrin (I), Bifenthrin (I), Cyhalothrin (I), Gamma-Cyhalothrin (I), Lamda- Cyhalothrin (I), Cypermethrin (I), and its analogs, Delta-Methrin (I), -Cyfluthrin (I) and its analogs, Permethrin (I), Bioallethrin (I), Fenvalerate (I), Imiprothrin (I) etc.	150 TPA	---	150 TPA
8.	Carbamate & thio based products: - Cartap.HCL Tech. (I), Thiodicarb (I), Thiophanate-ME (F), Propineb (F), Metiram (F), Thiram (F), Isoprothiolane Tech (I), Thiocyclam (I), Prothiocarb (F), Flutianil (F) etc.	100 TPA	---	100 TPA
9.	Quaternary salt and other salts, Acid based products: - Mepiquat Chloride Tech. (I), Chlormequat Chloride (I), other salts: Copper Hydroxide (Bactericide,F), Copper Sulphate (Algicide,F), etc., Flupropanate-NA Tech (H) + HPAA (INT.)-(2-Hydroxyphenylacetic Acid), BBA (INT.)-(Bromobutyricacid), HPPA-Int.(2-(4-Hydroxyphenoxy)Propanate), Picloram (H), Dicamba (H), 2-Cyanophenol (Int.) etc.	68 TPA	---	68 TPA
10.	Triazols: - 2,6 Dichlorobenzoxazole (INT.), Isoxaflutole (H), Flurasulam (H), TDA (INT.) (Trifluoromethylthiadiazole), Flutriafol TECH (F), Prothiconazole (F), Sulfentrazone (H), Carfentrazone-ET (H) etc.	400 TPA	---	400 TPA

11.	Triazols: - Fipronil Tech (I), Propiconazole (F), Epoxyconazole (F), Tebuconazole (F), Difenoconazole (F), Hexaconazole (F), Tricyclazole (F), Myclobutanil (F), Flusilazole (F), Paclobutrazole (PGR), Thiamethoxam (I), Chlorothalonil (F), Triadimefon (F), Isoxadifen-ET (SF)		---	
12.	Hetrocyclic (Pyrimidine/Pyridine/Triazine): - Bispyribac-NA Tech. (H), Pirimicarb (I), Pyrithiobac-NA (H), Flumetsulam (H), Cyprodinil (F), Florasulam (H), Penoxsulam (H), DCP (INT.)-(4,6-Dichloropyrimidine), ACMP (INT.)-(2-Amino-4-Chloro-6-Methoxypyrimidine), Imazethapyr Tech. (H), Pyridalyl Tech (I), Diflufenican (H), Cloquintocet-Mexyl(SF)	185 TPA	---	185 TPA
13.	Hetrocyclic (Pyrimidine/Pyridine/Triazine): - Fluazinam (F), Fenpyroximate Tech. (I), Metribuzin (H), Amitraz (I), Clofentezine (I), MMMT (Int.)-(2-Methoxy-4-Methyl-6-Methylamino-1,3,5-Triazine, Metoxyfenozide (I), Fenchlorim (SF), 2-Hydroxy-3,5,6-trychloropyridine & its Sodium salt (Int. of Chlorpyriphos) etc.		---	
14.	Urea/Sulphonyl Urea: - Chlorimuron-ET Tech. (H), Buprofezin Tech. (I), Indoxacarb (I), Novaluron (I), Lufenuron (I), Diafenthiuron (I), Amicarbazone (H), Flucarbazone (H), Thiadiazuron (PGR), Hexythiazox (I), Linuron (H), Diuron (H), Tefluthrin (I), Metsulfuron-Methyl (H)	225 TPA	---	225 TPA
15.	Urea/Sulphonyl Urea: - Thifensulfuron-Methyl (H), Triburon-Methyl (H), Rimsulfuron (H), Iodosulfuron (H), Diamuron (H), Chlorsulfuron (H), Pyrazolesulfuron (H), Pyrazolesulfuron-Ethyl (H) etc.		---	
16.	4s Zeta Cypermethrin	---	200	200
17.	F-2700 Zeta Cypermethrin	---	1000	1000
18.	Ryanxypyr	---	3000	3000
19.	Cyazypyr	---	1000	1000
20.	DBC80 / (3-Bromo-1-(3-Chloro-2-Pyridinyl)-1H-Pyrazole-5-Carboxylic Acid)	---	1950	1950
21.	Indanamine	---	800	800
22.	FMC-57091 / Isoxazolidinone	---	2600	2600

23.	Sulfentrazone 2,4-Dichloro / 2,4-Dichlorophenyl-4-(Difloromethyl)Triazolone	---	1500	1500
	Total	**3533**	**12050**	**15583**
**Banned pesticides shall not be produced.* Production of either individual or more products in the group shall not exceed the stipulated total production capacity of the group.				
1	Captive Power Plant (Natural Gas)	**2.04 MW/Hr**	**---**	**2.04 MW/Hr**

4. Existing land area is 40476.94 sqm. No additional land will be required for the proposed expansion. Industry will enhance existing greenbelt in an area of 13450 sqm covering 33 % of total project area. The estimated project cost for expansion is Rs. 365.92 crores. Total capital cost earmarked towards environmental pollution control measures is Rs 17.15 crores and the recurring cost (O&M) will be about Rs 68.15 crores per annum. Total employment will be for 200 persons directly and 500 persons indirectly after expansion.

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 is flowing at a distance of 0.28 km in west direction.

6. Total water requirement is estimated to be 898 cum/day, which includes fresh water requirement of 261cum/day, proposed to be met from GIDC supply.

Industrial Effluent of 670 cum/day will be treated through Effluent Treatment Plant having Primary, Secondary & Tertiary Treatments, MEE and RO & shall be recycled back to process. Domestic effluent will be treated through STP after expansion. There will be no discharge of treated/untreated waste water from the unit, and thus ensuring Zero Liquid Discharge.

Power requirement after expansion will be 3500 KVA including existing 2200 KVA and will be met from M/s Dakshin Gujarat Vij Company Limited (DGVCL). Existing unit has one DG set of 1250 KVA capacity, additionally 1 no. DG set of 1500 KVA will be used as standby during power failure for proposed expansion.

Existing unit has natural gas based WHRB- Captive power plant, 2 nos. of natural gas based boilers of 10 TPH and 5 TPH capacity and one natural gas based thermic fluid heater of 10 lakh Kcal/h will be installed additionally in the proposed expansion. Water scrubbers and alkali scrubbers shall be installed for controlling emissions.

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 8th April, 2018. Public hearing is exempted in accordance with the Ministry's OM dated 27th April 2018, as the project site is located in the notified industrial area.

9. The proposal for environmental clearance was considered by the EAC (Industry-2) in its meetings held on 26-28 June, 2019 and 28-29 August, 2019 in the Ministry, wherein the project proponent and their accredited consultant M/s Siddhi Green Excellence Pvt Ltd presented the EIA/EMP report. The Committee found the EIA/EMP 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 No. 22-23/2018-IA.III (pt) dated 31st October 2019 and Ministry's communication No. Q-16017/38/2018-CPA dated 24th October 2019 regarding compliance of Hon'ble NGT order dated 19.8.2019 (published on 23.8.2019) in OA No. 1038/2018.

11. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for **Expansion of agrochemicals and their intermediates from 3533 TPA to 15583 TPA by M/s Cheminova India Limited (Technical Division) at Plot Nos. 241, 242/2, 241/P, GIDC Industrial Estate, Panoli, Ankleshwar, District Bharuch (Gujarat)**, under the provisions of the EIA Notification, 2006, read with subsequent amendments therein, subject to compliance of the terms and conditions as environmental safeguards, as under:-

(i) Consent to Establish/Operate (CTE/CTO) for the project shall be obtained from the State Pollution Control Board (SPCB) as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974, and the SPCB shall follow the mechanism/protocol issued by the Ministry vide letter no. Q-16017/38/2018-CPA dated 24th October, 2019 and forwarded by Central Pollution Control Board vide letter dated 25th October, 2019 to the SPCB's, while issuing the CTE/CTO for the project, for improvement of environmental quality in the area.

(ii) Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, shall be obtained from the State Pollution Control Board.

(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) As proposed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged to any surface water body, sea and/or on land.

(v) National Emission Standards for Pesticides Manufacturing Industry issued by the Ministry vide G.S.R.446(E) dated 13th June, 2011, as amended from time to time, shall be followed.

(vi) No pesticides/chemicals banned by the Ministry of Agriculture and Farmers Welfare, or having LD_{50}<100 mg/kg shall be produced. Also, no raw material/solvent prohibited by the concerned regulatory authorities from time to time, shall be used for production of pesticides.

(vii) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.

(viii) Solvent management shall be carried out as follows:

(a) Reactor shall be connected to chilled brine condenser system.
(b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.

(c) The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery.
(d) Solvents shall be stored in a separate space specified with all safety measures.
(e) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.
(f) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.
(g) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.

(ix) Total fresh water requirement shall not exceed 261 cum/day to be met from GIDC water supply. Prior permission in this regard shall be obtained from the concerned regulatory authority.

(x) Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system

(xi) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.

(xii) 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.

(xiii) 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.

(xiv) 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.

(xv) 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.

(xvi) As committed, Fund allocation for the Corporate Environment Responsibility (CER) shall be 5 % of the total project cost. Item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.

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

(xviii) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.

(xix) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.

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

(xxi) 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.

(xxii) Mitigation measures suggested during process safety and risk assessment studies shall be undertaken accordingly.

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

(i) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board, Central Pollution Control Board, State Government and any other statutory authority.

(ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.

(iii) The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.

(iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.

(v) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).

(vi) The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.

(vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.

(viii) The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the

recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.

(ix) The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. ESC activities shall be undertaken by involving local villages and administration.

(x) The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.

(xi) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.

(xii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.

(xiii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.

(xiv) The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.

(xv) The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://moef.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.

(xvi) The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.

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

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

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

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

16. This issues with approval of the competent authority.

(Dr. R. B. Lal)
Scientist E

(डा. आर. बी. लाल)
(Dr. R.B. LAL)
वैज्ञानिक 'ई'
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Scientist 'E'
Ministry of Environment,Forest and Climate Change
भारत सरकार, नई दिल्ली
Government of India, New Delhi

Copy to: -

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

(Dr. R. B. Lal)
Scientist E

CC&A Amendment Copy

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By R.P.A.D.

CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A – Amendment)
CCA AMENDMENT NO: AWH - 104796

NO: GPCB/ANK/CCA-138(15)/ID-15015/ **DT: 10/12/2019**

To,
M/S. CHEMINOVA (INDIA) LTD. (TECH DIV.),
PLOT NO:241,
GIDC ESTATE PANOLI,
DIST-BHARUCH.

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

REF: (1) Your application No. 163740 dated **19/09/2019.**
(2) CCA No. AWH - 87335 dated :10/08/2017.
(3) CTE Amendment No. 99440 dated:04/04/2019 (For change in Product Mix)

Sir,

This has reference to the CCA order No: **AWH-87335, issued vide letter no. GPCB/ ANK/ CCA-138(10)/ ID-15015/419991, dated 10/08/2017** under the provisions of the various Environmental Act/ Rules, which stands amended as under. The Validity of this order will be up to **16/04/2022.**

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.	ORGANO PHOSPHATE: - ACEPHATE TECH. (I), DICHLORVOS (I), CHLORPYRIFOS (I), QUINALPHOS (I), TRIAZOPHOS(I), PHOSALONE (I), OMETHOATE (I), PROTHIOFOS (I), TEMEFOS (I), PROFENOFOS (I), ETHION (I), ETHWEPHON (PGR), GLYPHOSATE (H), etc.	Either individual or total production of this group shall not exceed 800 MT/Annum	(-)800	---	To be discontinued

2.	STROBILURIN: - AZOXYSTROBIN TECH. (F), DES-METHOXYAZOXY (DMA) (INT.) KRESOXIM METHYL (F), FLOUXASTROBIN (F), PYRACLOSTROBIN (F) etc.	Either individual or total production of this group shall not exceed 1200 MT/Annum	(-)1200	---	To be discontinued
3.	NEONICOTINOID/AMIDE: - IMIDACLOPRID TECH (I), THIACLOPRID (I), ACETAMIPRID (I), BEFLUBUTAMIDE TECH (H), FLUBENDAMIDE (I), CHLORANTRANILIPROLE (I), RYNEXAPYR (I), CYMOXANIL (F), THIFLUZAMIDE (F), CARBOXIN (F), CAPTAN (F), PRETILACHLOR (H), PROPYZAMIDE (H), PETHOXAMIDE (H), SNA(INT.)-(2-AMINOSULFONYL-N,N-DIMETHYLNICOTINAMIDE), MST(INT.)-(2-METHOXYCARBONYL)THIOPHENE-3-SULFONAMIDE), FLUFENACET (H), BOSCALID (F) etc.	Either individual or total production of this group shall not exceed 225 MT/Annum	---	Either individual or total production of this group shall not exceed 225 MT/Annum	No Change
4.	KETONE: - DIMETHOMORPH TECH. (F), CLETHODIM (H), BUTROXYDIM (H), SPIROMESIFEN (I), MESOTRIONE (H), SULCOTRIONE (H), IBP (INT.)-(ISOBUTYROPHENON	Either individual or total production of this group shall not exceed 60 MT/Annum	---	Either individual or total production of this group shall not exceed 60 MT/Annum	No Change

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	E), PYMETROZINE (I) etc.				
5.	ETHER: - PROPARGITE TECH. (I), OXYFLUORFEN (H), ETOXAZOLE (I), EEA (INT.)-(2-ETHOXY ETHYL AMINE), S-CYNO-MPB (INT.) etc.	Either individual or total production of this group shall not exceed 60 MT/Annum	---	Either individual or total production of this group shall not exceed 60 MT/Annum	No Change
6.	ANILINE: - PENDIMETHALIN TECH. (H), METALAXYL (F), FAMOXADONE(F), TRIFLURALIN (H), FIPA-OH (INT.) etc.	Either individual or total production of this group shall not exceed 60 MT/Annum	(-)60	---	To be discontinued
7.	ESTER/PYRETHROID : - FENOXAPROP-P-ETHYL TECH. (H), BIFENAZATE (I), QUIZALOFOP-P-ET (H), CLODINAFOP-PPG (H), ACRINATHRIN (I), BIFENTHRIN (I), CYHALOTHRIN (I), GAMMA-CYHALOTHRIN (I), LAMDA-CYHALOTHRIN (I), CYPERMETHRIN (I), AND ITS ANALOGS, DELTA-METHRIN (I), CYFLUTHRIN (I) AND ITS ANALOGS, PERMETHRIN (I), BIOALLETHRIN (I), FENVALERATE (I), IMIPROTHRIN (I) etc.	Either individual or total production of this group shall not exceed 150 MT/Annum	---	Either individual or total production of this group shall not exceed 150 MT/Annum	No Change
8.	CARBAMATE & THIO BASED PRODUCTS: - CARTAP.HCL TECH. (I), THIODICARB (I),	Either individual or total production	---	Either individual or total production	No Change

	THIOPHANATE-ME (F), PROPINEB (F), METIRAM (F), THIRAM (F), ISOPROTHIOLANE TECH (I), THIOCYCLAM (I), PROTHIOCARB (F), FLUTIANIL (F) etc.	of this group shall not exceed 100 MT/Annum		of this group shall not exceed 100 MT/Annum	
9.	QUATERNARY SALT AND OTHER SALTS, ACID BASED PRODUCTS: - MEPIQUAT CHLORIDE TECH. (I), CHLORMEQUAT CHLORIDE (I), OTHER SALTS: COPPER HYDROXIDE (BACTERICIDE,F), COPPER SULPHATE (ALGICIDE,F), etc., FLUPROPANATE-NA TECH (H) + HPAA (INT.)-(2-HYDROXYPHENYLACETIC ACID), BBA (INT.)-(BROMOBUTYRICACID), HPPA-INT.(2-(4-HYDROXYPHENOXY) PROPANATE), PICLORAM (H), DICAMBA (H), 2-CYANOPHENOL (INT.) etc.	Either individual or total production of this group shall not exceed 68 MT/Annum	---	Either individual or total production of this group shall not exceed 68 MT/Annum	No Change
10.	TRIAZOLS: - 2,6 DICHLOROBENZOXAZOLE (INT.), ISOXAFLUTOLE (H), FLURASULAM (H), TDA (INT.) (TRIFLUOROMETHYL THIADIAZOLE), FLUTRIAFOL TECH (F), PROTHICONAZOLE	Either individual or total production of this group	---	Either individual or total production of this	No Change

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	(F), SULFENTRAZONE (H), CARFENTRAZONE-ET (H) etc.	Sr. No. 11 & 12 shall not exceed 400 MT/Annum		group Sr. No. 11 & 12 shall not exceed 400 MT/Annum	
11.	TRIAZOLS: - FIPRONIL TECH (I), PROPICONAZOLE (F), EPOXYCONAZOLE (F), TEBUCONAZOLE (F), DIFENOCONAZOLE (F), HEXACONAZOLE (F), TRICYCLAZOLE (F), MYCLOBUTANIL (F), FLUSILAZOLE (F), PACLOBUTRAZOLE (PGR), THIAMETHOXAM (I), CHLOROTHALONIL (F), TRIADIMEFON (F), ISOXADIFEN-ET (SF)				No Change
12.	HETROCYCLIC (PYRIMIDINE/PYRIDINE/TRIAZINE): - BISPYRIBAC-NA TECH. (H), PIRIMICARB (I), PYRITHIOBAC-NA (H), FLUMETSULAM (H), CYPRODINIL (F), FLORASULAM (H), PENOXSULAM (H), DCP (INT.)-(4,6-DICHLOROPYRIMIDINE), ACMP (INT.)-(2-AMINO-4-CHLORO-6-METHOXYPYRIMIDINE), IMAZETHAPYR TECH. (H), PYRIDALYL TECH (I), DIFLUFENICAN (H), CLOQUINTOCET-MEXYL(SF)	Either individual or total production of this group Sr. No. 13 & 14 shall not exceed 185 MT/Annum	---	Either individual or total production of this group Sr. No. 13 & 14 shall not exceed 185 MT/Annum	No Change

13.	HETROCYCLIC (PYRIMIDINE/PYRIDINE/TRIAZINE): - FLUAZINAM (F), FENPYROXIMATE TECH. (I), METRIBUZIN (H), AMITRAZ (I), CLOFENTEZINE (I), MMMT (INT.)-(2-METHOXY-4-METHYL-6-METHYLAMINO-1,3,5-TRIAZINE, METOXYFENOZIDE (I), FENCHLORIM (SF), 2-HYDROXY-3,5,6-TRYCHLOROPYRIDINE & ITS SODIUM SALT (INT. OF CHLORPYRIPHOS) etc.				No Change
14.	UREA/SULPHONYL UREA: - CHLORIMURON-ET TECH. (H), BUPROFEZIN TECH. (I), INDOXACARB (I), NOVALURON (I), LUFENURON (I), DIAFENTHIURON (I), AMICARBAZONE (H), FLUCARBAZONE (H), THIADIAZURON (PGR), HEXYTHIAZOX (I), LINURON (H), DIURON (H), TEFLUTHRIN (I), METSULFURON-METHYL (H)	Either individual or total production of this group Sr. No. 15 & 16 shall not exceed 225 MT/Annum	(-)225	---	To be discontinued
15.	UREA/SULPHONYL UREA: - THIFENSULFURON-METHYL (H), TRIBURON-METHYL (H), RIMSULFURON				

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	(H), IODOSULFURON (H), DIAMURON (H), CHLORSULFURON (H), PYRAZOLESULFURON(H), PYRAZOLESULFURON-ETHYL (H) etc.				
16.	Ryanxypyr	---	935	935	New Product
17.	Isoxazolidinone sodium solution	---	650	650	New Product
18.	4S Zeta Cypermethrin	---	150	150	New Product
19.	F-2700 Zeta Cypermethrin				
20.	NATURAL GAS BASED CAPTIVE POWER PLANT	2.04 Mega Watt Hour	---	2.04 Mega Watt Hour	No Change
	Total	**3533**	**(-)550**	**2983**	---

2. **SPECIFIC CONDITIONS:-**
   a. **Total production shall not exceed 2983 MT/Month in any case.**
   b. **There shall be no change in mode of disposal of waste water.**
   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. **Unit shall manufacture cypermethrin based product i.e. 4S Zeta cypermethrin & f-2700 Zeta Cypermethrin from Cypermethrin with max. production of 150 MTPA.**
   l. **When Cypermethrine (150 MTPA) and new product Deravitaves of Cypermethrin at 18 and 19 (150 MTPA) to be manufactured product other than cypermethrin at group 7 (total 150 MTPA) can not be manufactured.**

m. **CCA is granted with a condition to comply guideline to be issued by Ministry of Environment, Forest and Climate Change in the matter of O.A.No.1038/2018 and Hon.NGT order dated: 10/07/2019 and 23/08/2019.**

[A] Additional conditions under Air Act:

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

Flue gas Emission Standards		
Parameters	**Existing**	**Revised norms (80% of Existing)**
PM	150 mg/Nm3	120 mg/Nm3
SO2	100 PPM	80 PPM
NOx	50 PPM	40 PPM

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

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

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

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

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

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

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

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

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

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

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

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

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

[D] Other General Conditions:

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

3. CONDITION UNDER THE WATER ACT:

3.1 The condition No. 3.3 for Water Consumption under Water Act of the CCA order No: **AWH-87335, issued vide letter no. GPCB/ ANK/ CCA-138(10)/ ID-15015/419991, dated 10/08/2017** is amended and shall now be read as under.

a. Domestic: 50 KL/Day (Existing 50 KLD + Proposed Nil)
b. Industrial: 260.2 KL/Day (Existing 265 KLD - Proposed 4.8 KLD)

Total: 310.2 KL/Day (Existing 315 KLD - Proposed 4.8 KLD)

3.2 The condition No. 3.1 & 3.2 for Wastewater Generation under Water Act of the CCA order No: **AWH-87335, issued vide letter no. GPCB/ ANK/ CCA-138(10)/ ID-15015/419991, dated 10/08/2017** is amended and shall now be read as under.

a. Domestic: 33.2 KL/Day (Existing 33.2 KLD + Proposed Nil)
b. Industrial: 71.2 KL/Day (Existing 85.91 KLD - Proposed 14.7 KLD)
Total: 104.4 KL/Day (Existing 119.11 KLD - Proposed 14.7 KLD)

3.2 71.2 KLD treated effluent shall be discharged to NCTL by underground drainage line and 33.2 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-87335, issued vide letter no. GPCB/ ANK/ CCA-138(10)/ ID-15015/419991, dated 10/08/2017** will remain same.

For and on behalf of
GUJARAT POLLUTION CONTROL BOARD

(A.V.SHAH)
SR. ENVIRONMENT ENGINEER

CC&A/CTO Copy

GPCB

GUJARAT POLLUTION CONTROL BOARD

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By R.P.A.D

CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A)
CCA NO:AWH-87335

NO: GPCB / ANK / CCA- 138(10)/ ID- 15015/ **DT :**

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 **17/04/2017** and inward No.**119450** 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. (Tech. Div.)

PLOT NO: 241

GIDC ESTATE:Panoli

TALUKA: Ankleshwar

DIST- Bharuch - 394116,Gujarat,India

1. **Consent Order No.:** AWH-87335 **date of Issue** 25/07/2017.

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 16/04/2022** to operate industrial plant to manufacture following products:

Sr	Products	CTE Qty	Applied CCA Qty	Granted CCA Qty	Unit Per Mth	CAS No.	Remarks
1	NATURAL GAS BASED CAPTIVE POWER PLANT	2.04	2.04	2.04	Mega Watt Hour		
2	ORGANO PHOSPHATE: ACEPHATE TECH. (I), DICHLORVOS (I), CHLORPYRIFOS (I), QUINALPHOS (I), TRIAZOPHOS (I), PHOSALONE (I), OMETHOATE (I), PROTHIOFOS (I), TEMEFOS (I), PROFENOFOS (I), ETHION (I), ETHEPHON (PGR), GLYPHOSATE (H) ETC.	66.66	66.66	66.66	Metric Tonne		Either individual or total production of this group shall not exceed 800 MT/Annum

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

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Sr	Products	CTE Qty	Applied CCA Qty	Granted CCA Qty	Unit Per Mth	CAS No.	Remarks
3	STROBILURIN:- AZOXYSTROBIN TECH. (F), DES-METHOXYAZOXY (DMA) (INT.), KRESOXIM METHYL (F), FLOUXASTROBIN (F), PYRACLOSTROBIN (F) ETC.	100.00	100.00	100.00	Metric Tonne		Either individual or total production of this group shall not exceed 1200 MT/Annum
4	NEONICOTINOID/AMIDE:IMIDACLOPRID TECH.(I), THIACLOPRID (I), ACETAMIPRID (I),BEFLUBUTAMIDE TECH. (H),FLUBENDAMIDE (I),CHLORANTRANILIPROLE (I),RYNEXAPYR (I),CYMOXANIL (F),THIFLUZAMIDE (F),CARBOXIN(F),CAPTAN (F),PRETILACHLOR (H),PROPYZAMIDE (H),PETHOXAMIDE(H),SNA (INT.)-(2-AMINOSULFONYL-N,N-DIMETHYLNICOTINAMIDE, MST(INT.)-(2-(METHOXYCARBONYL) THIOPHENE-3-SULFONAMIDE),FLUFENACET(H),BOSCALID (F) ETC.	18.75	18.75	18.75	Metric Tonne		Either individual or total production of this group shall not exceed 225 MT/Annum
5	KETONE:- DIMETHOMORPH TECH. (F), CLETHODIM (H), BUTROXYDIM (H), SPIROMESIFEN (I), MESOTRIONE (H), SULCOTRIONE (H), IBP (INT.)-(ISOBUTYROPHENONE), PYMETROZINE (I) ETC.	5.00	5.00	5.00	Metric Tonne		Either individual or total production of this group shall not exceed 60 MT/Annum
6	ETHER:- PROPARGITE TECH. (I), OXYFLUORFEN (H), ETOXAZOLE (I), EEA (INT.)-(2-ETHOXY ETHYL AMINE), S-CYNO-MPB (INT.) ETC.	5.00	5.00	5.00	Metric Tonne		Either individual or total production of this group shall not exceed 60 MT/Annum
7	ANILINE:- PENDIMETHALIN TECH. (H), METALAXYL (F), FAMOXADONE (F), TRIFLURALIN (H), HPA-OH (INT.) ETC.	5.00	5.00	5.00	Metric Tonne		Either individual or total production of this group shall not exceed 60 MT/Annum

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Sr	Products	CTE Qty	Applied CCA Qty	Granted CCA Qty	Unit Per Mth	CAS No.	Remarks
8	ESTER / PYRETHROID:- FENOXAPROP-P-ETHYL TECH. (H), BIFENAZATE (I), QUIZALOFOP-P- ET (H), CLODINAFOP-PPG (H). ACRINATHRIN (I), BIFENTHRIN (I), CYHALOTHRIN (I), GAMMA-CYHALOTHRIN (I), LAMDA-CYHALOTHRIN (I), CYPERMETHRIN (I) AND ITS ANALOGS, DELTA-METHRIN (I), CYFLUTHRIN (I) AND ITS ANALOGS, PERMETHRIN (I), BIOALLETHRIN (I), FENVALERATE (I), IMIPROTHRIN (I) ETC.	12.50	12.50	12.50	Metric Tonne		Either individual or total production of this group shall not exceed 150 MT/Annum
9	CARBAMATE & THIO BASED PRODUCTS:- CARTAP.HCL TECH. (I), THIODICARB (I), THIOPHANATE-ME (F), PROPINEB (F), METIRAM (F), THIRAM (F), ISOPROTHIOLANE TECH. (I), THIOCYCLAM (I), PROTHIOCARB (F), FLUTIANIL (F) ETC.	8.33	8.33	8.33	Metric Tonne		Either individual or total production of this group shall not exceed 100 MT/Annum
10	QUATERNARY SALT & OTHER SALTS, ACID BASED PRODUCTS:-MEPIQUAT CHLORIDE TECH. (I), CHLORMEQUAT CHLORIDE (I), OTHER SALTS: COPPER HYDROXIDE (BACTERICIDE, F), COPPER SULFATE (ALGICIDE, F) ETC. FLUPROPANATE-NA TECH. (H) + HPAA (INT.)-(2-HYDROXYPHENYLACETIC ACID), BBA (INT.)-(BROMOBUTYRICACID), HPPA-INT. (2-(4-HYDROXY PHENOXY)PROPANATE), PICLORAM (H), DICAMBA (H), 2-CYANOPHENOL (INT.) ETC.	5.67	5.67	5.67	Metric Tonne		Either individual or total production of this group shall not exceed 68 MT/Annum
11	TRIAZOLS:- 2,6DICHLOROBENZOXAZOLE(INT.), ISOXAFLUTOLE(H), FLURASULAM(H), TDA(INT) (TRIFLUOROMETHYLTHIADIAZOLE),FLUTRIAFOL TECH (F),PROTHICONAZOLE(F), SULFENTRAZONE(H), CARFENTRAZONE-ET(H) ETC.	33.33	33.33	33.33	Metric Tonne		Either indi. or total production of this group sr.no. 11&12 shall not exceed 400 MT/Annum

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Sr	Products	CTE Qty	Applied CCA Qty	Granted CCA Qty	Unit Per Mth	CAS No.	Remarks
12	TRIAZOLS: FIPRONIL TECH (I), PROPICONAZOLE(F), EPOXYCONAZOLE(F), TEBUCONAZOLE(F), DIFENOCONAZOLE(F), HEXACONAZOLE(F), TRICYCLAZOLE(F), MYCLOBUTANIL(F), FLUSILAZOLE(F), PACLOBUTRAZOLE(PGR), THIAMETHOXAM(I), CHLOROTHALONIL(F), TRIADIMEFON(F), ISOXADIFEN-ET(SF),	33.33	33.33	33.33	Metric Tonne		Either indi. or total production of this group sr.no. 11&12 shall not exceed 400 MT/Annum
13	HETROCYCLIC (PYRIMIDINE / PYRIDINE / TRIAZINE):- BISPYRIBAC-NA TECH. (H), PIRIMICARB (I), PYRITHIOBAC-NA (H), FLUMETSULAM (H), CYPRODINIL (F), FLORASULAM (H), PENOXSULAM (H), DCP (INT.)-(4,6-DICHLOROPYRIMIDINE), ACMP (INT.)-(2-AMINO-4-CHLORO-6-METHOXYPYRIMIDINE). IMAZETHAPYR TECH. (H), PYRIDALYL TECH. (I), DIFLUFENICAN (H), CLOQUINTOCET-MEXYL (SF),	15.42	15.42	15.42	Metric Tonne		Either indi. or total production of this group sr.no. 13&14 shall not exceed 185 MT/Annum
14	HETROCYCLIC (PYRIMIDINE/ PYRIDINE/ TRIAZINE):- FLUAZINAM (F). FENPYROXIMATE TECH. (I), METRIBUZIN (H), AMITRAZ (I), CLOFENTEZINE (I), MMMT (INT.)-(2-METHOXY-4-METHYL-6-METHYLAMINO-1,3,5-TRIAZINE, METOXYFENOZIDE (I), FENCHLORIM (SF), 2-HYDROXY-3,5,6-TRICHLOROPYRIDINE & ITS SODIUM SALT (INT. OF CHLORPYRIPHOS) ETC.	15.42	15.42	15.42	Metric Tonne		Either indi. or total production of this group sr.no. 13&14 shall not exceed 185 MT/Annum

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Sr	Products	CTE Qty	Applied CCA Qty	Granted CCA Qty	Unit Per Mth	CAS No.	Remarks
15	UREA / SULPHONYL UREAS:- CHLORIMURON-ET TECH. (H), BUPROFEZIN TECH. (I), INDOXACARB (I), NOVALURON (I), LUFENURON (I) , DIAFENTHIURON (I), AMICARBAZONE (H), FLUCARBAZONE (H), THIADIAZURON (PGR), HEXYTHIAZOX (I), LINURON (H), DIURON (H), TEFLUTHRIN (I), METSULFURON-METHYL (H),	18.75	18.75	18.75	Metric Tonne		Either indi. or total production of this group sr.no. 15&16 shall not exceed 225 MT/Annum
16	UREA / SULPHONYL UREAS:- THIFENSULFURON-METHYL (H), TRIBURON-METHYL (H), RIMSULFURON (H), IODOSULFURON (H), DIAMURON (H), CHLORSULFURON (H), PYRAZOLESULFURON (H), PYRAZOLESULFURON-ETHYL (H) ETC.	18.75	18.75	18.75	Metric Tonne		Either indi. or total production of this group sr.no. 15&16 shall not exceed 225 MT/Annum

SPECIFIC CONDITIONS

(1) Unit shall not manufacture any product which generated hazardous waste like ammonium sulphate / ammonium solution / sodium chloride / sodium sulphate / potassium chloride / potassium sulphate / acetic acid / sodium acetate etc till unit make any MoU with end user who is having permission under rule 9 & authorisation to receive this waste. Unit shall also submit MoU copies to Board.

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.

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3. CONDITION UNDER THE WATER ACT:

SPECIFIC CONDITION

1. Mother liquor 21.19 m3/ day shall be incinerated to common incineration facility at BEIL or SEPPL or GSPL, Palsana and / or co- processing in cement industries.

3.1 The quantity of total water consumption shall not exceed 315.00 KL/Day as per below break up as mentioned in form D submitted for consent application under the Water Act- 1974.

a) Industrial: 265.00 KL/Day
b) Domestic: 50.00 KL/Day

3.2 The quantity of total waste water generation shall not exceed 119.11 KL / Day as per below break up as mentioned in form D submitted for consent application under the Water Act- 1974.

a) Industrial: 85.91 KL/Day
b) Domestic: 33.20 KL/Day

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

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

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

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

SR No.	PARAMETERS	PERMISSIBLE LIMIT
1	pH	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, BOD3, 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 C6H5OH)	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 SO4)	1000 mg/l
16	Cyanide (as CN)	0.2 mg/l

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17	Fluoride (as F)	15 mg/l
18	Hexavalent Chromium (as Cr+6)	0.1 mg/l
19	Total Chromium (as Cr)	2 mg/l
20	Copper (as Cu)	3 mg/l
21	Nickel (as Ni)	3 mg/l
22	Zinc (as Zn)	15 mg/l
23	Iron (as Fe)	3 mg/l
24	Manganese (as Nn)	2 mg/l
25	Mercury (as Hg)	0.01 mg/l
26	Lead (as Pb)	0.1 mg/l
27	Arsenic (as As)	0.2 mg/l
28	Venedium (as V)	0.2 mg/l
29	Cadmium (as Cd)	0.05 mg/l
30	Selenium (as Se)	0.05 mg/l
31	Bio-assay test	90 % Survival of fish after 96 hours in 100 % effluent
32	Insecticides/ Pesticides	Absent

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.

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.

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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:

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

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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	41726 - Boiler	WHRB -Captive Power Plant	NATURAL GAS	5500 Sm3/day	Not Applicable	30	PM SO2 NOX	150 100 50	mg/ Nm³ PPM PPM
2	8820 - Boiler	Boiler (Capacity - 10 TPH & 5 TPH)	NATURAL GAS	7000 Sm3/day or FO: 4000 Kg/day	Not Applicable	30	PM SO2 NOX	150 100 50	mg/ Nm³ PPM PPM
3	8822 - D.G. Sets	D.G.Set (Cap. 1250 KVA)	H.S.D	2160 Lit/day	Not Applicable	11	PM SO2 NOX	150 100 50	mg/ Nm³ PPM PPM
4	8823 - Incinerator	Common vent of New & Old Incinerator with Two stage caustic scrubbing system	NATURAL GAS	3000 Sm3/day	Alkali Scrubber	45	Parameter as Mentioned Below		

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

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

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:

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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	43940 - Reaction Vessels	Reaction vessel of AZOXY Plant with Caustic scrubbing system	Alkali Scrubber	25	HCL- 20 mg/ Nm^3 Chlorine- 09 mg/ Nm^3
2	43939 - Reaction Vessels	Reaction vessel of ACP Plant with Ozone treatment followed by Hypo scrubber & Carbon bed	Scrubber	25	HCL- 20 mg/ Nm^3 Chlorine- 09 mg/ Nm^3

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

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

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

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

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

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

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

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-87335 **date of Issue** 25/07/2017 **.**

5.2 M/s. Cheminova (India) Ltd. (Tech. Div.) is granted an authorization to operate facility for following hazardous wastes on the situated at **PLOT NO:** 241 **GIDC ESTATE** Panoli **DIST:** Bharuch.

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Sr	Name of Hazardous Waste	Sch	Catg.	Qty MT/ Year	Facility	Mode of Disposal & Remarks
1	Spent Solvents	I	20.2	500.00	Co-Processing,Collection,Re-Cycling,Incineration,Disposal,Reuse,Recovery,Storage,Transportation	Spent Solvent (MDC,EA,ACETONE etc) :Recover & Reuse within industrial unit OR incineration to CHWIF at BEIL/ SEPPL/ own incinerator OR Disposal by sell out to authorized users having rule 9 & authori.
2	Spent Solvents	I	20.2	1200.00	Co-Processing,Collection,Re-Cycling,Incineration,Disposal,Reuse,Recovery,Storage,Transportation	STRIPPED SOLVENT FROM STRIPPER: Recover & Reuse within industrial unit OR incineration to CHWIF at BEIL/ SEPPL/ own incinerator OR Disposal by sell out to authorized users having rule 9 & authori.
3	Process wastes or residues	I	29.1	2311.00	Co-Processing,Collection,Generation,Incineration,Disposal,Storage,Transportation	PROCESS WASTE: 2160 MT/Year of Tech. Div. + 151 MT/Year of Fml. Div. Sister Unit): Disposal to common CHWIF facility BEIL/ SEPPL/ GSPL Palsana/ RSPL/ Co-processing in cement industries
4	Spent acids	I	29.6	16524.00	Collection,Disposal,Storage,Transportation	Acetic acid /Sodium Acetate /Organic by-products etc.: Disposal by sell out to authorized users who is having authorization with valid CCA and rule 9 permission to receive this waste.
5	Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	I	33.1	362.11	Collection,Decontamination,Generation,Disposal,Reuse,Storage,Transportation	Disposal by send it to authorized decontamination facility / recycler or reuse or send back to supplier or send it to common TSDF/ CHWIF facility at BEIL/SEPPL
6	Chemical sludge from waste water treatment	I	35.3	305.00	Collection,Disposal,Storage,Transportation	Chemical sludge from waste water treatment includes ETP sludge (305 MT/Year): Disposal at TSDF – BEIL/ SEPPL
7	Chemical sludge from waste water treatment	I	35.3	1525.00	Collection,Disposal,Storage,Transportation	Evaporation Salt (1525MT/Year) : Disposal at TSDF – BEIL/ SEPPL
8	Ash from incinerator and flue gas cleaning residue	I	37.2	720.00	Collection,Disposal,Storage,Transportation	INCINERATOR ASH: Disposal to common TSDF facility BEIL/ SEPPL
9	Used or Spent Oil	I	5.1	0.36	Collection,Disposal,Reuse,Storage,Transportation	Disposal by Reuse in plant & machinery as lubricant or sell it to authorized re-refiners / recycler.
10	Salts Of Per-Acids	II	B36	18864.00	Collection,Disposal,Storage,Transportation	Ammonium Sulphate / Ammonia Solution / Sodium chloride / Sodium sulfate / Potassium chloride / Potassium sulfate: Disposal by sell out to authorized users having rule 9 & authorisation in valid CCA

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 16/04/2022.

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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.

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 9/8/17
D. M. Thaker, Unit Head

CTE Amendment Copy

GPCB

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

By R.P.A.D.

Consent to Establish (NOC) - Amendment
CTE AMENDMENT NO: CTE - 99440

NO: GPCB/ANK/CCA-138(13)/ID-15015/ **DT:___/03/2019**

To,
M/S. CHEMINOVA (INDIA) LTD. (TECH DIV.),
PLOT NO:241,
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. 144159 dated 05/12/2018**(for CTE - Change in Product mix).**
(2) CCA No. AWH - 87335 dated :10/08/2017.

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:241, GIDC ESTATE PANOLI, DIST: BHARUCH** to manufacture the following products. The Validity of this order will be up to **14/02/2024.**

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

Sr. No.	Products	Quantity (MT/Annum)			Remarks
		Existing	Proposed	Total (After Change in Product Mix)	
1.	ORGANO PHOSPHATE: - ACEPHATE TECH. (I), DICHLORVOS (I), CHLORPYRIFOS (I), QUINALPHOS (I), TRIAZOPHOS(I), PHOSALONE (I), OMETHOATE (I), PROTHIOFOS (I), TEMEFOS (I), PROFENOFOS (I), ETHION (I), ETHWEPHON (PGR),	Either individual or total production of this group shall not exceed 800 MT/Annum	(-)800	---	To be discontinued

	GLYPHOSATE (H), etc.				
2.	STROBILURIN: - AZOXYSTROBIN TECH. (F), DES-METHOXYAZOXY (DMA) (INT.) KRESOXIM METHYL (F), FLOUXASTROBIN (F), PYRACLOSTROBIN (F) etc.	Either individual or total production of this group shall not exceed 1200 MT/Annum	(-)1200	---	To be discontinued
3.	NEONICOTINOID/AMIDE: - IMIDACLOPRID TECH (I), THIACLOPRID (I), ACETAMIPRID (I), BEFLUBUTAMIDE TECH (H), FLUBENDAMIDE (I), CHLORANTRANILIPROLE (I), RYNEXAPYR (I), CYMOXANIL (F), THIFLUZAMIDE (F), CARBOXIN (F), CAPTAN (F), PRETILACHLOR (H), PROPYZAMIDE (H), PETHOXAMIDE (H), SNA(INT.)-(2-AMINOSULFONYL-N,N-DIMETHYLNICOTINAMIDE), MST(INT.)-(2-METHOXYCARBONYL)THIOPHENE-3-SULFONAMIDE), FLUFENACET (H), BOSCALID (F) etc.	Either individual or total production of this group shall not exceed 225 MT/Annum	---	Either individual or total production of this group shall not exceed 225 MT/Annum	No Change
4.	KETONE: - DIMETHOMORPH TECH. (F), CLETHODIM (H), BUTROXYDIM (H),	Either individual or total production of this	---	Either individual or total production of this	No Change

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	SPIROMESIFEN (I), MESOTRIONE (H), SULCOTRIONE (H), IBP (INT.)-(ISOBUTYROPHENONE), PYMETROZINE (I) etc.	group shall not exceed 60 MT/Annum		group shall not exceed 60 MT/Annum	
5.	ETHER: - PROPARGITE TECH. (I), OXYFLUORFEN (H), ETOXAZOLE (I), EEA (INT.)-(2-ETHOXY ETHYL AMINE), S-CYNO-MPB (INT.) etc.	Either individual or total production of this group shall not exceed 60 MT/Annum	---	Either individual or total production of this group shall not exceed 60 MT/Annum	No Change
6.	ANILINE: - PENDIMETHALIN TECH. (H), METALAXYL (F), FAMOXADONE(F), TRIFLURALIN (H), FIPA-OH (INT.) etc.	Either individual or total production of this group shall not exceed 60 MT/Annum	(-)60	---	To be discontinued
7.	ESTER/PYRETHROID: - FENOXAPROP-P-ETHYL TECH. (H), BIFENAZATE (I), QUIZALOFOP-P-ET (H), CLODINAFOP-PPG (H), ACRINATHRIN (I), BIFENTHRIN (I), CYHALOTHRIN (I), GAMMA-CYHALOTHRIN (I), LAMDA-CYHALOTHRIN (I), CYPERMETHRIN (I), AND ITS ANALOGS, DELTA-METHRIN (I), CYFLUTHRIN (I) AND ITS ANALOGS, PERMETHRIN (I), BIOALLETHRIN (I), FENVALERATE (I),	Either individual or total production of this group shall not exceed 150 MT/Annum	---	Either individual or total production of this group shall not exceed 150 MT/Annum	No Change

	IMIPROTHRIN (I) etc.				
8.	CARBAMATE & THIO BASED PRODUCTS: - CARTAP.HCL TECH. (I), THIODICARB (I), THIOPHANATE-ME (F), PROPINEB (F), METIRAM (F), THIRAM (F), ISOPROTHIOLANE TECH (I), THIOCYCLAM (I), PROTHIOCARB (F), FLUTIANIL (F) etc.	Either individual or total production of this group shall not exceed 100 MT/Annum	---	Either individual or total production of this group shall not exceed 100 MT/Annum	No Change
9.	QUATERNARY SALT AND OTHER SALTS, ACID BASED PRODUCTS: - MEPIQUAT CHLORIDE TECH. (I), CHLORMEQUAT CHLORIDE (I), OTHER SALTS: COPPER HYDROXIDE (BACTERICIDE,F), COPPER SULPHATE (ALGICIDE,F), etc., FLUPROPANATE-NA TECH (H) + HPAA (INT.)-(2-HYDROXYPHENYLA CETIC ACID), BBA (INT.)-(BROMOBUTYRICAC ID), HPPA-INT.(2-(4-HYDROXYPHENOXY) PROPANATE), PICLORAM (H), DICAMBA (H), 2-CYANOPHENOL (INT.) etc.	Either individual or total production of this group shall not exceed 68 MT/Annum	---	Either individual or total production of this group shall not exceed 68 MT/Annum	No Change
10.	TRIAZOLS: - 2,6 DICHLOROBENZOXA ZOLE (INT.), ISOXAFLUTOLE (H), FLURASULAM (H),				No Change

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	TDA (INT.) (TRIFLUOROMETHYLTHIADIAZOLE), FLUTRIAFOL TECH (F), PROTHICONAZOLE (F), SULFENTRAZONE (H), CARFENTRAZONE-ET (H) etc.	Either individual or total production of this group Sr. No. 11 & 12 shall not exceed 400 MT/Annum	---	Either individual or total production of this group Sr. No. 11 & 12 shall not exceed 400 MT/Annum	
11.	TRIAZOLS: - FIPRONIL TECH (I), PROPICONAZOLE (F), EPOXYCONAZOLE (F), TEBUCONAZOLE (F), DIFENOCONAZOLE (F), HEXACONAZOLE (F), TRICYCLAZOLE (F), MYCLOBUTANIL (F), FLUSILAZOLE (F), PACLOBUTRAZOLE (PGR), THIAMETHOXAM (I), CHLOROTHALONIL (F), TRIADIMEFON (F), ISOXADIFEN-ET (SF)				No Change
12.	HETROCYCLIC (PYRIMIDINE/PYRIDINE/TRIAZINE): - BISPYRIBAC-NA TECH. (H), PIRIMICARB (I), PYRITHIOBAC-NA (H), FLUMETSULAM (H), CYPRODINIL (F), FLORASULAM (H), PENOXSULAM (H), DCP (INT.)-(4,6-DICHLOROPYRIMIDINE), ACMP (INT.)-(2-AMINO-4-CHLORO-6-	Either individual or total production of this group Sr. No. 13 & 14 shall not exceed 185 MT/Annum	---	Either individual or total production of this group Sr. No. 13 & 14 shall not exceed 185 MT/Annum	No Change

	METHOXYPYRIMIDINE), IMAZETHAPYR TECH. (H), PYRIDALYL TECH (I), DIFLUFENICAN (H), CLOQUINTOCET-MEXYL(SF)				
13.	HETROCYCLIC (PYRIMIDINE/PYRIDINE/TRIAZINE): - FLUAZINAM (F), FENPYROXIMATE TECH. (I), METRIBUZIN (H), AMITRAZ (I), CLOFENTEZINE (I), MMMT (INT.)-(2-METHOXY-4-METHYL-6-METHYLAMINO-1,3,5-TRIAZINE, METOXYFENOZIDE (I), FENCHLORIM (SF), 2-HYDROXY-3,5,6-TRYCHLOROPYRIDINE & ITS SODIUM SALT (INT. OF CHLORPYRIPHOS) etc.				No Change
14.	UREA/SULPHONYL UREA: - CHLORIMURON-ET TECH. (H), BUPROFEZIN TECH. (I), INDOXACARB (I), NOVALURON (I), LUFENURON (I), DIAFENTHIURON (I), AMICARBAZONE (H), FLUCARBAZONE (H), THIADIAZURON (PGR), HEXYTHIAZOX (I), LINURON (H), DIURON (H),	Either individual or total production of this group Sr. No. 15 & 16 shall not exceed 225 MT/Annum	(-)225	---	To be discontinued

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	TEFLUTHRIN (I), METSULFURON-METHYL (H)				
15.	UREA/SULPHONYL UREA: - THIFENSULFURON-METHYL (H), TRIBURON-METHYL (H), RIMSULFURON (H), IODOSULFURON (H), DIAMURON (H), CHLORSULFURON (H), PYRAZOLESULFURON(H), PYRAZOLESULFURON-ETHYL (H) etc.				
16.	Ryanxypyr	---	935	935	New Product
17.	Isoxazolidinone sodium solution	---	650	650	New Product
18.	4S Zeta Cypermethrin	---	150	150	New Product
19.	F-2700 Zeta Cypermethrin				
20.	NATURAL GAS BASED CAPTIVE POWER PLANT	2.04 Mega Watt Hour	---	2.04 Mega Watt Hour	No Change
	Total	**3533**	**(-)550**	**2983**	---

2. **SPECIFIC CONDITIONS:**
   a. **Total production shall not exceed 2983 MT/Annum in any case.**
   b. **There shall be no change in mode of disposal of waste water.**
   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. **Unit shall manufacture cypermethrin based product i.e. 4S Zeta cypermethrin & f-2700 Zeta Cypermethrin from Cypermethrin with max. production of 150 MTPA.**
l. **When Cypermethrine (150 MTPA) and new product Deravitaves of Cypermethrin at 18 and 19 (150 MTPA) to be manufactured product other than cypermethrin at group 7 (total 150 MTPA) can not be manufactured.**

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-87335, issued vide letter no. GPCB/ ANK/ CCA-138(10)/ ID-15015/419991, dated 10/08/2017** is amended and shall now be read as under.

a. Domestic: 50 KL/Day (Existing 50 KLD + Proposed Nil)
b. Industrial: 260.2 KL/Day (Existing 265 KLD - Proposed 4.8 KLD)
Total: 310.2 KL/Day (Existing 315 KLD - Proposed 4.8 KLD)

3.2 The condition No. 3.1 & 3.2 for Wastewater Generation under Water Act of the CCA order No: **AWH-87335, issued vide letter no. GPCB/ ANK/ CCA-138(10)/ ID-15015/419991, dated 10/08/2017** is amended and shall now be read as under.

a. Domestic: 33.2 KL/Day (Existing 33.2 KLD + Proposed Nil)
b. Industrial: 71.2 KL/Day (Existing 85.91 KLD - Proposed 14.7 KLD)
Total: 104.4 KL/Day (Existing 119.11 KLD - Proposed 14.7 KLD)

3.3 71.2 KLD treated effluent shall be discharged to NCTL by underground drainage line and 33.2 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-87335, issued vide letter no. GPCB/ ANK/ CCA-138(10)/ ID-15015/419991, dated 10/08/2017 shall remain unchanged.

For and on behalf of
GUJARAT POLLUTION CONTROL BOARD

(A.V.SHAH)
SR. ENVIRONMENT ENGINEER

Annexure 4 -Annual return- Form- 4 (2018-2019)

FMC

ISO 9001:2015
ISO 14001:2015
OHSAS 18001:2007
ID 9108827522

Cheminova India Limited
Technical Division
241,242/2 & 241/F
GIDC Estate, Panoli - 394 116
Dist. Bharuch (Gujarat)
India.

Phone : +91 9033978613-17
fmc.com / fmc.in
CIN NO. U24100MH1986PLC038627

Date – 20Th June 2019

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

PCB ID -15015

To
Member Secretory
GUJARAT POLLUTION CONTROL BOARD
PARYAVARAN BHAWAN
SECTOR 10 –A, GANDHINAGAR – 382010.

Subject: Submission of Annual returns (Form –4)

Respected Sir,

We hereby declare that we have sent hazardous waste to different facilities during the period of April -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, ~~Bharuch~~ Ankleshwar,

Enc. – Form -4

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

Cheminova India Ltd. Technical Division

PCB ID- 15015
Year -2018-19

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

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

1.	Name and address of facility	:	M/S.CHEMINOVA INDIA LTD, (Technical Division) Plot No. – 241, 242/2 & 241/P, GIDC, PANOLI Dist.– Bharuch	
2.	Authorization No. and Date of issue	:	Letter No. GPCB/ANK/CCA-138(10)/ID-15015 Outward No. 419991 Dated 10/08/2017 AWH-87335 dated of issue – 25/07/2017	
3.	Name of the authorized person and full address with telephone and fax number e-mail	:	Anil Shah (Factory Manger) CHEMINOVA INDIA LTD, (Technical Division) Plot No. – 241, 242/2 & 241/P, GIDC, PANOLI Dist Bharuch Ph. No. 9033978613 to 17, email – anil.shah@fmc.com	
4.	Production (Product wise) during year April 2018 to March 2019		Product	Quantity in (MT)
			STROBILURIN: Azoxystrobin Technical	18.350
			TRIAZOLS: Paclobutrazol Technical	22.283
			Amide-Beflubutamide Technical	29.190
			NEONICOTINOID / AMIDE Thiclopid Technical	20.999

YEAR - 2018-19

PCB ID- 15015

PART-A

1	Total Quantity of Category wise waste generated	Hazardous waste generation	Category	Quantity Generated (in MT)
		1. Chemical sludge from waste water treatment (ETP Sludge)	35.3	94.670
		2. Chemical sludge from waste water treatment (Evaporation Salt)	35.3	39.998
		3. Used or spent oil	5.1	Nil
		4. 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	22.270 21.460 13.510 Nil Total Qty.= 57.240
		5. Process waste or Residue (a) For Incineration (b) For Co-process	29.1	128.065
		6. Incineration Ash / Flue gas cleaning Residue	37.2	Nil
		7. (a) Spent Solvents (c) Stripped solvent from stripper	20.2 20.2	187.797

PCB ID- 15015

PART-A

2	Total Quantity of Category wise waste Disposed	Hazardous waste	Category	To Disposal Facility Quantity (in MT)	To Recycler Quantity (in MT)	Others Quantity (in MT)	Remarks (Details enclose as)
		1. Chemical sludge from waste water treatment (ETP Sludge)	35.3	94.970	NIL	NIL	ANNEXURE- A
		2. Chemical sludge from waste water treatment (Evaporation Salt)	35.3	38.615	NIL	NIL	ANNEXURE- B
		3. Used or spent oil	5.1	NIL	Nil	NIL	ANNEXURE- C
		4. Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes (a) Non-Recyclable Plastic / Bag liner (b) Insulation waste (c) Asbestos sheet (d) Discarded containers	33.1	14.425 21.960 13.510 Nil Total Qty.= 49.895	8.945	NIL	ANNEXURE- D
		5. Process waste or Residue (a) For Incineration (b) For Co-process	29.1 29.1	101.740 24.390 Total Qty.= 126.130	NIL	NIL	ANNEXURE- E
		6. Incineration Ash / Flue gas cleaning Residue	37.2	Nil	NIL	NIL	
		7. (a) Spent Solvents (b) Stripped solvent from stripper	20.2 20.2	187.797	NIL	NIL	ANNEXURE- F

3	Quantity utilized in-house	NIL

CHEMINOVA INDIA LIMITED PANOLI

PCB ID- 15015

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	0.700
		2. Chemical sludge from waste water treatment (Evaporation Salt)	35.3	1.700
		3. Used or spent oil	5.1	Nil
		4. Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes (a) 1.Non-Recyclable Plastic / Bag liner (b) Insulation waste (c) Asbestos sheet (d) Discarded containers	33.1	Nil Nil Nil Nil
		5. Process waste or Residue (c) For Incineration (d) For Co-process	29.1 29.1	3.820
		6. Incineration Ash / Flue gas cleaning Residue	37.2	Nil
		7. (a) Spent Solvents (c) Stripped solvent from stripper	20.2 20.2	Nil

CHEMINOVA INDIA LIMITED PANOLI

PCB ID- 15015

PART-A

HAZARDOUS WASTE DISPOSAL DETAILS

ANNEXURE- A

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

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
	12-May-18	704563	13.265	BEIL
	14-Sep-18	753114	14.660	BEIL
	20-Sep-18	755663	16.975	BEIL
	22-Sep-18	756636	14.345	BEIL
	17-Oct-18	768093	12.295	BEIL
	21-Oct-18	769286	14.250	BEIL
	22-Nov-18	784900	9.180	BEIL
	TOTAL QUANTITY (In MT)		94.970	

ANNEXURE- B

(2) Chemical sludge from waste water treatment (Evaporation Salt) Cat- 35.3

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
Apr-17	23-May-18	710273	13.275	BEIL
	30-May-18	713818	13.480	BEIL
	7-Jun-18	717414	11.860	BEIL
	TOTAL QUANTITY (In MT)		38.615	

ANNEXURE- C

(3) Used or spent oil Cat-5.1

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

ANNEXURE- D

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

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
	16-Nov-18	781375	1.945	BEIL
	29-Nov-18	789408	1.800	BEIL
	TOTAL QUANTITY (In MT)		3.745	

CHEMIKOVA INDIA LIMITED PANOLI

PCB ID- 15015

PART-A

HAZARDOUS WASTE DISPOSAL DETAILS

(4) Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes Cat -33.1
(b) Non-Recyclable Plastic /Contaminated liners, bags – To Incineration

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
	14-May-18	705390	4.835	SEPPL
	21-Oct-18	769358	5.845	BEIL
	TOTAL QUANTITY (In MT)		10.68	

(4) Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes Cat -33.1
(c) Non-Recyclable Plastic /Contaminated liners, bags – To Recycler/ Decontamination Facility

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
	25-Apr-18	695775	2.120	Anas Green Environment Pvt. Ltd.
	26-Apr-18	696320	3.340	Anas Green Environment Pvt. Ltd.
	14-May-18	705406	3.485	Anas Green Environment Pvt. Ltd.
	TOTAL QUANTITY (In MT)		8.945	

(4) Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes Cat -33.1
(d) Insulation waste

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
	6-Apr-18	686100	0.625	BEIL
	12-Apr-18	6892620	0.585	BEIL
	26-Apr-18	696282	0.640	BEIL
	18-May-18	707843	0.935	BEIL
	16-Oct-18	767647	0.895	BEIL
	19-Oct-18	768594	0.590	BEIL
	21-Oct-18	769315	0.805	BEIL
	22-Oct-18	769880	0.815	BEIL
	22-Oct-18	769865	0.865	BEIL
	25-Oct-18	771626	1.115	BEIL
	29-Oct-18	773723	1.780	BEIL
	29-Oct-18	773716	1.240	BEIL
	15-Nov-18	780836	1.050	BEIL
	19-Nov-18	783148	0.955	BEIL
	27-Nov-18	788051	0.480	BEIL
	12-Jan-19	816388	0.610	BEIL
	22-Jan-19	821048	0.645	BEIL
	28-Jan-19	824418	0.690	BEIL
	02-Feb-19	827856	0.715	BEIL
	06-Feb-19	830132	0.785	BEIL
	08-Feb-19	831651	0.735	BEIL
	08-Feb-19	831658	0.575	BEIL
	11-Feb-19	832861	0.620	BEIL
	13-Feb-19	834247	0.805	BEIL

CHEMINOVA INDIA LIMITED PANOLI

PCB ID- 15015

PART-A
HAZARDOUS WASTE DISPOSAL DETAILS

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
	16-Feb-19	836060	0.715	BEIL
	09-Mar-19	848509	0.740	BEIL
	26-Mar-19	857817	0.950	BEIL
	TOTAL QUANTITY (In MT)		21.960	

(4) Empty barrels/containers/ liners contaminated with hazardous chemicals / wastes Cat -33.1
(e) Asbestos sheet

Month of disposal	Date of disposal	Manifest No.	Quantity (In MT)	Disposed to
	02-Nov-18	776419	5.515	BEIL
	14-Nov-18	780324	2.715	BEIL
	24-Nov-18	786311	5.280	BEIL
	TOTAL QUANTITY (In MT)		13.510	

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

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

ANNEXURE- E

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

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	Disposed to
	23-May-18	710189	2.565	BEIL
	14-Jun-18	719991	6.475	BEIL
	22-Jun-18	723025	5.380	BEIL
	23-Jun-18	723378	5.655	BEIL
	23-Jun-18	723381	5.440	BEIL
	18-Jul-18	731822	15.645	BEIL
	23-Jul-18	733176	15.350	BEIL
	21-Aug-18	743791	5.170	BEIL
	28-Sep-18	759083	6.595	BEIL
	13-Oct-18	766473	4.545	BEIL
	19-Oct-18	768657	7.015	BEIL
	27-Nov-18	782070	10.035	BEIL
	28-Nov-18	788589	5.045	BEIL
	28-Nov-18	788597	6.825	BEIL
	TOTAL QUANTITY (In MT)		101.740	

CHEMINOVA INDIA LIMITED PANOLI

PC3 ID- 15015

PART-A

HAZARDOUS WASTE DISPOSAL DETAILS

(5) Process waste or Residue Cat -29.1

(b) For Co-process

Month of disposal	Date of disposal	Manifest No.	Quantity, MT	Disposed to
	17-Apr-18	691445	11.435	RSPL
	31-Aug-18	747230	7.955	RSPL
	05-Mar-19	845836	5.000	RSPL
	TOTAL QUANTITY (In MT)		24.390	RSPL

ANNEXURE- F

(7) (a) Spent Solvents & (b) Stripped solvent from stripper

Month of disposal	Date of disposal	Manifest No.	Quantity	Disposed to
	2-Apr-18	684015	9.025	Balmukund Chemical
	12-Apr-18	689092	8.190	Balmukund Chemical
	12-Apr-18	689135	1.520	Balmukund Chemical
	3-Aug-18	737173	4.892	Balmukund Chemical
	3-Aug-18	737151	10.160	Balmukund Chemical
	3-Aug-18	737241	2.695	Balmukund Chemical
	8-Aug-18	739040	21.900	Balmukund Chemical
	9-Aug-18	739573	23.645	Balmukund Chemical
	11-Aug-18	740208	17.440	Balmukund Chemical
	14-Aug-18	741564	14.590	Balmukund Chemical
	14-Aug-18	741468	17.885	Balmukund Chemical
	16-Aug-18	742081	13.955	Balmukund Chemical
Apr-17	16-Aug-18	742152	9.440	Balmukund Chemical
	20-Aug-18	743448	8.130	Balmukund Chemical
	23-Aug-18	744451	1.537	Balmukund Chemical
	23-Aug-18	744440	1.790	Balmukund Chemical
May-17	11-Sep-18	752140	11.160	Balmukund Chemical
Jul-17	14-Sep-18	753119	2.118	Balmukund Chemical
Oct-17	17-Sep-18	754025	7.725	Balmukund Chemical
	TOTAL QUANTITY (In MT)		187.797	

DATE: 20th June 2019

PLACE: Panoli

CHEMINDIA INDIA LIMITED PANOLI

Signature of Factory manager /Occupier

Annexure 5 -Environmental Statement – Form V (2018-2019)

FMC

ISO 9001:2015
ISO 14001:2015
OHSAS
18001:2007
ID 9108627522

Cheminova India Limited
Technical Division
241,242/2 & 241/P,
GIDC Estate, Panoli - 394 116
Dist. Bharuch (Gujarat)
India.

Phone : +91 9033978613-17
fmc.com / fmc.in
CIN NO. U24100MH1986PLC038627

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

ID: 15015

Date: 24th 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.
Technical Division

Enclosures: Form —V

CC To: Regional Officer, GPCB, Ankleshwar.

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

FORM - V

(See Rule 14)

From :

CHEMINOVA INDIA LTD.
Technical Division Plot no 241 ,242P,
GIDC Panoli,Tal Ankleshwar Dist Bharuch

To:

Gujrat 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.Manoj Khanna** CHEMINOVA INDIA LTD Technical Division Plot no 241 ,242P. GIDC Panoli,Tal Ankleshwar Dist Bharuch
ii) Industry category Primary :- (STC Code) Secondary:- (SIC Code)	- LSI Not Applicable Not Applicable
iii) Production capacity:- Units	- ANNEXURE-1
iv) Year of establishment	- 1990
v) Date of the last environmental statement submitted	- 24 th September 2018

PART -B

Water & Raw Material Consumption

i) Water consumption - M^3/day	- 65 m3/day
Process	- 10 m3/day
Cooling	- 23 m3/day
Domestic	- 32 m3/day

Name of products	Process water consumption per product output (Lt./ Kg)	
	During the previous financial year 2017-18 (1)	During the current financial year 2018-2019 (2)
(1) AzoxyStrobin	6.45	6.44
(1) Technical, Paclo, Beflubutamide, TCP	24.00	48.75

ii) Raw Material consumption

	* Name of raw materials	Name of Products	Consumption of raw material per unit of output	
			During the previous financial year 2017-18	During the Current financial year 2018-2019
1	HPAA		0.543 Kg/ Kg	0.59448 Kg/ Kg
2	DCP		0.465 Kg/ Kg	0.50913 Kg/ Kg
3	2-Cyano Phenyl		0.385 Kg/ Kg	0.419618 Kg/ Kg
4	Dabco		0.0067 Kg/ Kg	0.007856 Kg/ Kg
5	MIC		0.298 Kg/ Kg	0.035584 Kg/ Kg
6	MEOH		0.425 Kg/ Kg	0.599236 Kg/ Kg
7	ACETONE		0.275 Kg/ Kg	0.035584 Kg/ Kg

CHEMINOVA INDIA LIMITED PANOLI

8	K2C03	Azoxystrobin Technical	0.776 Kg/ Kg	0.866242 Kg/ Kg
9	NAHC03		0.0682 Kg/ Kg	0.07431 Kg/ Kg
10	H2SO4		0.008 Kg/ Kg	0.010191 Kg/ Kg
11	Cellite		0.019 Kg/ Kg	0.008493 Kg/ Kg
12	DMA		1.152 Kg/ Kg	1.1746 Kg/ Kg
13	TICL4		0.745 Kg/ Kg	0.7672 Kg/ Kg
14	Methyl formate		0.2983 Kg/ Kg	0.3141 Kg/ Kg
15	TEA		0.0596 Kg/ Kg	0.0818 Kg/ Kg
16	DMS		0.8023 Kg/ Kg	0.7963 Kg/ Kg
17	TBAHA		0.038 Kg/ Kg	0.000 Kg/ Kg
18	MDC		0.7396 Kg/ Kg	0.0246 Kg/ Kg
19	HCL		0.5876 Kg/ Kg	0.3128 Kg/ Kg
20	Na2C03		0.8627 Kg/ Kg	0.8878 Kg/ Kg
21	MeOH		0.4105 Kg/ Kg	0.4691 Kg/ Kg
22	2- HQ	Quinalphos	0.389 Kg/ Kg	No Production
23	DETPC		0.529 Kg/ Kg	
24	KOH		0.156 Kg/ Kg	
25	K2CO3		0.117 Kg/ Kg	
26	ACETONE		0.068 Kg/ Kg	
27	STABILIZER		0.120 Kg/ Kg	
28	MIX. XYLENE		0.134 Kg/ Kg	
29	SALT		0.068 Kg/ Kg	
30	2-CIT	TCP	0.615 Kg/ Kg	0.6480 Kg/ Kg
32	NaOH FLAKES		0.200 Kg/ Kg	0.2297 Kg/ Kg
33	CCMP		1.202 Kg/ Kg	1.2267 Kg/ Kg
34	MeOH		0.379 Kg/ Kg	0.4784 Kg/ Kg
35	O-Xylene	DIFENTHIURON	No Production	No Production
36	PTA			
37	t-BA			
38	Pacloketone	Paclobutazole	1.0857 Kg/ Kg	1.089223 Kg/ Kg
39	NaBH4		0.042 Kg/ Kg	0.042207 Kg/ Kg
40	30% HCl		0.143 Kg/ Kg	0.151558 Kg/ Kg
41	Methanol		0.519 Kg/ Kg	0.480845 Kg/ Kg
42	NaHCO3		0.0259 Kg/ Kg	0.031904 Kg/ Kg
43	FHBTF	Beflubutamid	0.613 Kg/ Kg	1.883 Kg/ Kg
44	BBM		0.66528 Kg/ Kg	2.028 Kg/ Kg
45	K2CO3		0.611 Kg/ Kg	1.884 Kg/ Kg
46	Benzyl Amine		0.660 Kg/ Kg	2.011 Kg/ Kg

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

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	Concentrations of pollutants in discharges (mass/volume) mg/l except pH & Temp	Percentage of variation from prescribed standard with reasons
Average Flow 28.91 m3/d.			
a) **Water**	**TPD**	**mg/L**	
Total Dissolved Solid	0.0785	2715	--
Total Suspended Solid	0.0011	37	--
Chemical Oxygen Demand	0.0036	123	--

Biological Oxygen Demand		0.0010	36	.--
Ammonical Nitrogen		0.0000	1	.--
b) Air		TPD	mg/Nm³	
Azoxy Plant				
	Chlorine	0.0000	1.81	.--
	Hydrogen Chloride	0.0000	2.16	.--
Boiler				
	SPM	0.0037	32.22 mgnm3	.--
	SOx	0.0018	7.00 ppm	.--
	NOx	0.0021	12.09 ppm	.--

PART-D

Hazardous Wastes

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

Hazardous wastes	Total Quantity (kg)	
	During the previous financial year 2017-18	During the current financial year 2018-2019
a) From Process		
Category Type of Waste		
(1)Evaporation Salt	1,163,135	38615
(2) Waste Used Oil	300	.-
(3) Discarded Container Bag Liner(Cat3.3	163,240	49895
(4) Process waste (Cat-29.1)	707,910	126130
(5) Spent Solvents	81,470	187797
(6) Stripped Solvent	18,290	.-
b) From Pollution Control facilities		
ETP Sludge	118,530	94970

PART -E

Solid Wastes

	Total Quantity in Kgs	
	During the previous financial year 2017-18	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	6545	8945
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)Accoustic Enclosure has been provided to D.G. Set

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

PART -H

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)) Effluent segregation to improve quantity of treated effluent

(2) Cleaning of Primary Settling Tank, Equalization Tank, Final Treated Effluent Storage Tank etc were done to increase the effective volume and retention period.

3) Revamping of Aeration Tanks

Date: 24-Jul-18

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

Name: Anil Shah

Designation: Factory Manager

Address:CHEMINOVA INDIA Limited,
TECHNICAL Division,
Plot No. 241/242P,
GIDC Estate, Panoli-394116.
Dist. Bharuch, Gujarat.

ANNEXURE -1

Sr No	Product / Raw Material	CCA Qty MT / Month
1	natural gas based captive power plant	2.042
2	organo phosphate: acephate tech. (i), dichlorvos (i), chlorpyrifos (i), quinalphos (i), triazophos (i), phosalone (i), omethoate (i), prothiofos (i), temefos (i), profenofos (i), ethion (i), ethephon (pgr), glyphosate (h) etc.	66.66
3	strobilurin:- azoxystrobin tech. (f), des-methoxyazoxy (dma) (int.), kresoxim methyl (f), flouxastrobin (f), pyraclostrobin (f) etc.	100
4	neonicotinoid/amide:imidacloprid tech.(i), thiacloprid (i), acetamiprid (i),beflubutamide tech.(h),flubendamide (i),chlorantraniliprole(i),rynexapyr(i),cymoxanil(f),thifluzamide(f),carboxin(f),captan(f) ,pretilachlor(h),propyzamide(h),pethoxamide(h),sna(int.)-(2-aminosulfonyl-n,n-dimethylnicotinamide,mst(int.)-(2-(methoxycarbonyl)thiophene-3-sulfonamide),flufenacet(h),boscalid (f) etc.	18.75
5	ketone:- dimethomorph tech. (f), clethodim (h), butroxydim (h), spiromesifen (i), mesotrione (h), sulcotrione (h), ibp (int.)-(isobutyrophenone), pymetrozine (i) etc.	5
6	ether:- propargite tech. (i), oxyfluorfen (h), etoxazole (i), eea (int.)-(2-ethoxy ethyl amine), s-cyno-mpb (int.) etc.	5
7	aniline:- pendimethalin tech. (h), metalaxyl (f), famoxadone (f), trifluralin (h), fipa-oh (int.) etc.	5
8	ester / pyrethroid:- fenoxaprop-p-ethyl tech. (h), bifenazate (i), quizalofop-p- et (h), clodinafop-ppg (h), acrinathrin (i), bifenthrin (i), cyhalothrin (i), gamma-cyhalothrin (i), lamda-cyhalothrin (i), cypermethrin (i) and its analogs, delta-methrin (i), cyfluthrin (i) and its analogs, permethrin (i), bioallethrin (i), fenvalerate (i), imiprothrin (i) etc.	12.5
9	carbamate & thio based products:- cartap.hcl tech. (i), thiodicarb (i), thiophanate-me (f), propineb (f), metiram (f), thiram (f), isoprothiolane tech. (i), thiocyclam (i), prothiocarb (f), flutianil (f) etc.	8.333
10	quaternary salt & other salts, acid based products:-mepiquat chloride tech. (i), chlormequat chloride (i), other salts: copper hydroxide (bactericide, f), copper sulfate (algicide, f) etc. flupropanate-na tech. (h) + hpaa (int.)-(2-hydroxyphenylacetic acid), bba (int.)- (bromobutyricacid), hppa-int. (2-(4-hydroxy phenoxy)propanate), picloram (h), dicamba (h), 2-cyanophenol (int.) etc.	5.666
11	triazols: 2,6dichlorobenzoxazole(int.), isoxaflutole(h), flurasulam(h), tda(int)(trifluoromethylthiadiazole),flutriafol tech(f),prothiconazole(f), sulfentrazone(h), carfentrazone-et(h) etc.	33.33
12	triazols: fipronil tech(i), propiconazole(f), epoxyconazole(f), tebuconazole(f), difenoconazole(f), hexaconazole(f), tricyclazole(f), myclobutanil(f), flusilazole(f), paclobutrazole(pgr), thiamethoxam(i), chlorothalonil(f), triadimefon(f), isoxadifen-et(sf),	33.33

CHEMINOVA INDIA LIMITED PANOLI

Sr No	Product / Raw Material	CCA Qty MT / Month
13	hetrocyclic (pyrimidine / pyridine / triazine):- bispyribac-na tech. (h), pirimicarb (i), pyrithiobac-na (h), flumetsulam (h), cyprodinil (f), florasulam (h), penoxsulam (h), dcp (int.)-(4,6-dichloropyrimidine), acmp (int.)-(2-amino-4-chloro-6-methoxypyrimidine). imazethapyr tech. (h), pyridalyl tech. (i), diflufenican (h), cloquintocet-mexyl (sf), fluazinam (f). fenpyroximate tech. (i), etc.	15.42
14	hetrocyclic (pyrimidine/ pyridine/ triazine):- fluazinam (f). fenpyroximate tech. (i), metribuzin (h), amitraz (i), clofentezine (i), mmmt (int.)-(2-methoxy-4-methyl-6-methylamino-1,3,5-triazine, metoxyfenozide (i), fenchlorim (sf), 2-hydroxy-3,5,6-trichloropyridine & its sodium salt (int. of chlorpyriphos) etc.	15.416
15	urea / sulphonyl ureas:- chlorimuron-et tech. (h), buprofezin tech. (i), indoxacarb (i), novaluron (i), lufenuron (i) , diafenthiuron (i), amicarbazone (h), flucarbazone (h), thiadiazuron (pgr), hexythiazox (i), linuron (h), diuron (h), tefluthrin (i), metsulfuron-methyl (h), thifensulfuron-methyl (h), triburon-methyl (h), rimsulfuron (h), iodosulfuron (h), diamuron (h), chlorsulfuron (h), etc	18.75
16	urea / sulphonyl ureas:- thifensulfuron-methyl (h), triburon-methyl (h), rimsulfuron (h), iodosulfuron (h), diamuron (h), chlorsulfuron (h), pyrazolesulfuron (h), pyrazolesulfuron-ethyl (h) etc.	18.75

ANNEXURE -2

Sr, No,	Description of waste	Physical Form	Waste Category No,	Sp, Gr,	% Solids	Chemical Composition	Method of disposal
1	ETP Sludge	Solid	34.3	x	85	CaO- 55%, SiO2- 5%,water -15% Other calcium salt 15%	Collection,Disposal,Storage, Transportation, Disposal to TSDF (BEIL/SEPPL)
2	Evaporation Salt	Solid	34.3	x	75	pH- 8 to 10, Moisture - 15 %, CV-450 Cal/ gm Ash 75% Other -10 %	Collection,Disposal,Storage, Transportation, Disposal to TSDF (BEIL/SEPPL)
3	Used Oil	Liquid	5.1	0.94	N.A.	N.A.	Collection,Disposal,Storage, Transportation, Disposal by selling to Recycler, Refiner
4	Discarded Container , Liners	Solid	33.3	x	N.A.	MS, HDPE, GI,	Collection,Disposal,Storage, Transportation, Disposal by selling to Deceontaimation facility
5	Discarded Bags , Liners	Solid	33.3	x	N.A.	Plastic, Liner	Collection,Disposal,Storage, Transportation, Disposal to TSDF / CHWIF of (BEIL/SEPPL)
6	ProcessWaste	Liquid	29.1	1.01	30	Stable Liquid waste pH - 5.5 to 8.5 Ash -2.5 to 4.5%, CV -2500 to 5000 Cal/gm	Collection,Disposal,Storage, Transportation, Disposal to CHWIF of (BEIL/SEPPL/ RSPL) Coprocess to cement industry
7	Incineration Ash	Solid	36.2	x	80	Nacl -6%, PO4- 10 %, SO4 -8%, Na2SO4- 18%, Alkali as NaOH 20%	Collection,Disposal,Storage, Transportation, Disposal to TSDF (BEIL/SEPPL)
8	Spent Solvent	Liquid	20.2	0.98	N.A.	MDC, Acetone, EA, EDC etc	Collection,Disposal,Storage, Transportation, Disposal to CHWIF of (BEIL/SEPPL/ RSPL) Sale out to authorized user having Rule-9