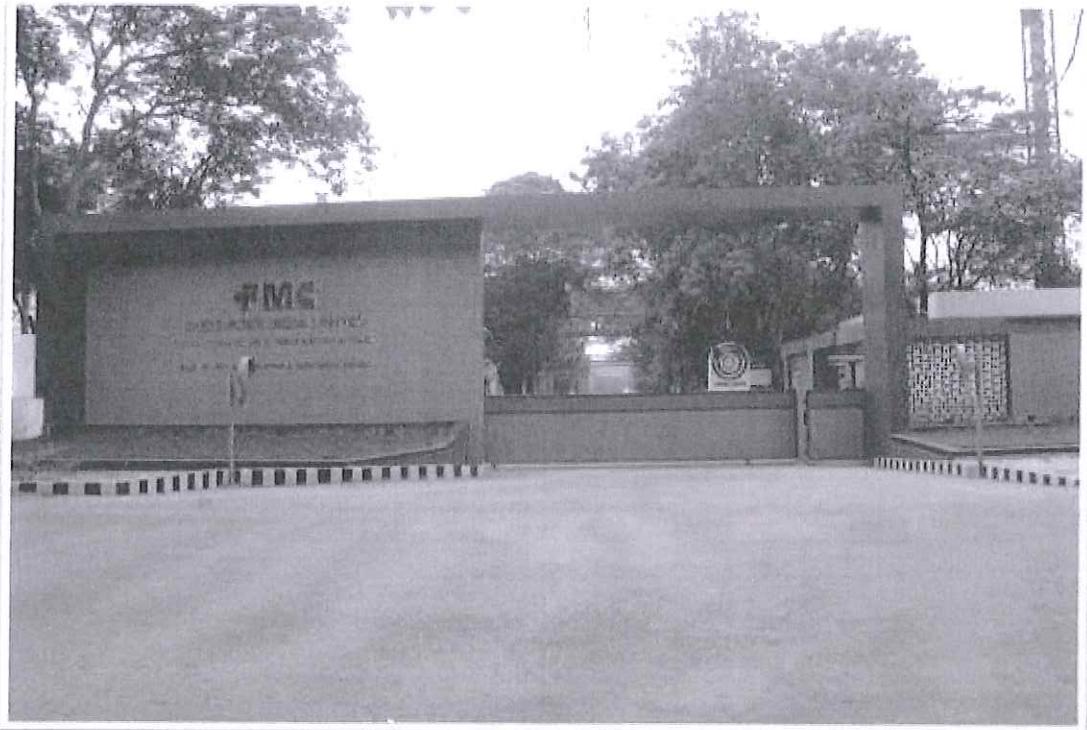


SIX MONTHLY

EC COMPLIANCE REPORT

(April 2023 to September 2023)

For



M/s. Cheminova India Limited (Intermediate Division)

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

Submitted to:

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



SIX MONTHLY EC COMPLIANCE REPORT

A –Six Monthly Monitoring Report - DATA SHEET

Monitoring the Implementation of Environmental Safeguards

Ministry of environment & Forests

Regional Office (W), Gandhinagar

Six Monthly Monitoring Reports

PART – 1

From: 01.04.2023 to 30.09.2023

No. Cheminova-Int/EC-Datasheet/01-2023																							
1	Project Type: River-Valley / Mining Industry / Thermal / Nuclear / other (Specify)																						
2	Name of the Project																						
3	Clearance Letter(s)/ OM No. & Date																						
4	Location a]. District (s) : Bharuch b]. State (s) : Gujarat c]. Latitude / Longitude : 21°32'50.49"N/ 72°59'52.28"E																						
5	Address for Correspondence : Plot No. (27+28)/A, Notified GIDC Industrial Estate, Panoli, Dist. Bharuch 394 116, State-Gujarat, India.																						
	a]. Address of Concerned Project Chief Engineer With Pin code & Telephone / Telex / Fax Numbers. : Mr. Anil N Shah Tel. – 9714993368																						
	b]. Address of Executive Project Engineer / Manager (with Pin code / Fax Number) : Mr. Anil N Shah Tel. – 9714993368																						
6	Salient Features a]. Of the Project : As detailed below																						
	<table border="1"> <thead> <tr> <th>Components</th> <th>Proposed Scenario</th> </tr> </thead> <tbody> <tr> <td>EC No.</td> <td>IA-J-11011/53/2018-IA-II(I)</td></tr> <tr> <td>Environmental Clearance accorded for-</td> <td>Product name attached in Annexure-1</td></tr> <tr> <td>Total Power Requirement</td> <td>3500 KVA</td></tr> <tr> <td>Source of Power</td> <td>DGVCL</td></tr> <tr> <td>Fresh Water requirement</td> <td>764 KL/day</td></tr> <tr> <td>Source of Water Supply</td> <td>GIDC water supply</td></tr> <tr> <td>Wastewater Generation</td> <td>Industrial : 833 KL/day Domestic : 45 KL/day</td></tr> <tr> <td>Process Emissions</td> <td>HCl, NH₃, Cl₂, SO₂, NO_x, H₂S, CO, HC, PM</td></tr> <tr> <td>Flue Gas Emission</td> <td>PM, SO₂, NOx</td></tr> <tr> <td>Fuel Type</td> <td>Natural gas, HSD, Briquettes/ Bagasse/ Groundnut shell</td></tr> </tbody> </table>	Components	Proposed Scenario	EC No.	IA-J-11011/53/2018-IA-II(I)	Environmental Clearance accorded for-	Product name attached in Annexure-1	Total Power Requirement	3500 KVA	Source of Power	DGVCL	Fresh Water requirement	764 KL/day	Source of Water Supply	GIDC water supply	Wastewater Generation	Industrial : 833 KL/day Domestic : 45 KL/day	Process Emissions	HCl, NH ₃ , Cl ₂ , SO ₂ , NO _x , H ₂ S, CO, HC, PM	Flue Gas Emission	PM, SO ₂ , NOx	Fuel Type	Natural gas, HSD, Briquettes/ Bagasse/ Groundnut shell
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	Fuel Requirement	Natural Gas- 10800 Nm ³ /h, HSD- 800.7 L/h, Briquettes/ Bagasse/Groundnut shell - 2970 kg/h
	Man power	Total: 600 (Company + Contract) employees
b]. Of the Environmental Management Plans	: As follows.	
Sr. No.	Activity	Status
1	Formulation of EHS cell Constitutes EHS in charge, ETP super visor and operators, Lab chemist and assistants	EHS cell consists of EHS in charge, ETP supervisor and operators, Lab chemist and assistants.
2	<p>For Air Environment Management</p> <ul style="list-style-type: none"> • To monitor the ambient air quality parameters and flue gas emissions within premises and also in the nearby area regularly and to compare with the regulating standards so that any necessary corrective actions can be taken. • Workplace monitoring to be carried out periodically to check fugitive emissions, if any. • To develop and maintain greenbelt, in and around the factory, for reducing the effect of air pollutants due to their deposition. • To follow proper loading and unloading practices to minimize dusting • To maintain proper record for the fuel consumption, start-up time and duration of boiler operation towards energy conservation 	<ul style="list-style-type: none"> • Company maintains its own records and monitors the ambient air and flue gas emission within premises periodically. Monitoring of ambient air & flue gas analysis is done by Siddhi Green Excellence Pvt Ltd., Ankleshwar. • Workplace monitoring is carried out inhouse and also periodically by Siddhi Green Excellence Pvt Ltd., Ankleshwar. • Unit has developed & maintained greenbelt area. • Unit is having closed system for loading and unloading of chemicals. • Unit is maintaining records for the fuel consumption, start-up time and duration of boiler operation towards energy conservation
3	<p>For Water Environment Management</p> <ul style="list-style-type: none"> • To investigate possibilities of water reuse and recycling for reducing water consumption and wastewater generation • Records of water consumption, effluent generation, effluent discharge, water characteristics, treated and untreated effluent characteristics to be maintained. • To monitor the adequacy and efficiency of ETP so that the effluent is given suitable treatment and the treated effluent meets specified norms of available CC&A of GPCB. • The effluent collection and discharge drainages, effluent handling and treatment systems to be maintained and regularly monitored to prevent leakages or sudden break-down. • Proper house-keeping to be adopted to prevent spillages and contaminated surface runoff going to storm water drains. 	<ul style="list-style-type: none"> • Reuse and recycling of water is done. Roof Top rainwater harvesting facility is provided and water is collected and reused. • Unit is maintaining records of water consumption, effluent generation, water characteristics, treated and untreated effluent characteristics. • The adequacy and efficiency of ETP is maintained and the effluent is treated appropriately at all the stages. The Treated effluent is further processed in R.O. Plant, MEE & ATFD Plant. The R.O. Permeate is reused within premises. • The effluent collection and discharge drainages, effluent handling and treatment systems are maintained and regularly monitored to prevent leakages or sudden break-down. The preventive maintenance of all ETP units is taken periodically by taking appropriate proactive actions. • Good housekeeping practices has been implemented by the unit to prevent spillages and contaminated surface runoff going to storm water drains.



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	4	For Hazardous / Non-hazardous waste management <ul style="list-style-type: none"> • Proper storage and handling arrangements in compliance to the conditions of authorization granted by SPCB. • Proper signboards to be provided at relevant places. • All the necessary regulatory procedures as per the amended Hazardous Waste Management & Handling Rules – 2003 to be followed and adhered with. • The transportation of hazardous waste to the TSDF Site to be as per the guidelines and accompanied with Form-9. • Monthly records of generation, storage and disposal of hazardous waste should be maintained in a record register as per the format of Form-3 as per amended Hazardous Waste rules – 2003 and annual returns of disposal to be submitted to SPCB in prescribed form – 4 and form – 13. 	<ul style="list-style-type: none"> • Unit has a dedicated storage areas for storage of all types of wastes. All the conditions stipulated in Authorization is complied. • Signboards are provided at relevant places. • Unit is complying all the regulatory procedures as per the amended Hazardous Waste Management & Handling Rules – 2016. • Unit is following guideline for transportation of hazardous waste to TSDF & CHWIF of M/s. BEIL / Safe Enviro / SEPPIL etc. Transporter is provided Form -9 with each consignment. • Monthly records of generation, storage and disposal of hazardous waste are maintained in a record register as per the format of Form-3 as per amended Hazardous Waste rules – 2003 and annual returns of disposal of all the hazardous waste are submitted to GPCB in prescribed forms – 4 and form – 13. 																
7	Production details during compliance period and (or) during the previous financial year		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Production Details</th> </tr> <tr> <th>Month</th> <th>Quantity (MTM)</th> </tr> </thead> <tbody> <tr> <td>April 2023</td> <td>482.63</td> </tr> <tr> <td>May 2023</td> <td>463.21</td> </tr> <tr> <td>June 2023</td> <td>399.20</td> </tr> <tr> <td>July 2023</td> <td>475.90</td> </tr> <tr> <td>August 2023</td> <td>450.59</td> </tr> <tr> <td>September 2023</td> <td>467.85</td> </tr> </tbody> </table>	Production Details		Month	Quantity (MTM)	April 2023	482.63	May 2023	463.21	June 2023	399.20	July 2023	475.90	August 2023	450.59	September 2023	467.85
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8	Break Up of the Project Area	:	Notified GIDC Industrial Estate, Panoli.																
	a]. Submergence area: forest & non-forest	:																	
	b]. Others	:																	
9	Breakup of the project affected population with enumeration of those losing houses / dwelling units, only agricultural land, dwelling units & agricultural land & landless laborers / artisan.	:	Not applicable since unit is located in Notified GIDC Industrial Estate, Panoli																
	a]. SC , ST / Adivasis	:	---																
	b]. Others	:	---																
	(Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey is carried out give details and years of survey)	:	---																
10	Financial Details	:																	
	a]. Project cost as originally planned and subsequent revised estimates and the year of price reference	:	Rs. 790.36 crore (For proposed Expansion only)																
	b]. Allocation made for environmental management plans with item wise and year wise break-up.	:	As follows																



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Sr.No.	Particulars	Recurring Cost Per Annum [Rs. In lakh]	Capital Cost (Rs. In lakh)
1	Air Pollution Control	683	600
2	Water Pollution Control	1366	1200
3	Noise Pollution Control	5	3
4	Environment Monitoring & Management	153	90
5	Occupational Health & Safety	50	12
6	Green Belt development & maintenance	20	5.0
7	Solid waste management	228	8290
TOTAL Planned		2505	10200
c]. Benefit cost ratio / Internal rate of return and the year of assessment	:	Not applicable	
d]. Whether (c) includes the cost of environmental management as shown in the above	:	Yes	
e]. Actual expenditure incurred on the project so far	:	1088 Lacs	
f] Actual expenditure incurred on the Environmental Management Plan so far		766 Lacs	
11 Forest land Requirement	:	Notified GIDC Industrial Estate, Panoli	
a]. The status of approval for diversion of forest land for non-forestry use		--	
b]. The Status of clearing felling	:	--	
c]. The status of compensatory afforestation, if any		--	
d]. Comments on the viability & sustainability of compensatory afforestation programme in the light of actual field experience so far	:	--	
12 The status of clear felling in non-forest areas (such as submergence area of reservoir, approach roads), if any with quantitative information.	:	Notified GIDC Industrial Estate, Panoli	
13 Status of construction	:	Construction Initiated	
a]. Date of commencement (Actual and / or planned).	:	23/05/2022	
b]. Date of completion (Actual and / or planned)	:	Based on the commissioning of project within Five years.	
14 Reasons for the delay if the project is yet to start	:		
15 Dates of site visits			
a]. The dates on which the project was monitored by the Regional Office on Previous occasions, if any	:	--	
b]. Date of site visit for this monitoring project	:	08-10-2023 (Visit by GPCB)	
16 Details of correspondence with project authorities for obtaining action plans / information on status of compliance to safeguards other than the routine letters for logistic support for site visits	:	--	
(The first monitoring report may contain the details of all the letters issued so far, but the later reports may cover only the letters issued subsequently.)	:	--	



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Annexure 1 -Compliance report of Environment Clearance

Sr. No.	Conditions	Compliance Status					
		Noted.	Unit	has been obtained	partial	CC&A	
2.	The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for expansion of pesticides and pesticide specific intermediates from 19705 TPA to 47681 TPA by M/s. Cheminova India Limited (Intermediate Division) in an area of 149163.17 sq. m. located at Plot Nos. (27+28)/A, GIDC Industrial Estate, Panoli, Taluka: Ankleswar, District Bharuch (Gujarat).	Noted					
3.	The details of products are as under:-						
SN	Name of Product	Quantity (MT/Annum)	Existing (TPA)	Proposed (TPA)	Total (TPA)	Month	Quantity (MT/Month)
1.	Phosphorous Trichloride (PCl ₃)/ Phosphoryl Chloride (POCl ₃)	1000	--	1000		April 2023 to Sept. 2023	
2.	TriMethyl Phosphite(TMP) OR Tri Ethyl Phosphite(TEP)	100	--	100			
3.	Diethyl Thio Phosphoryl Chloride (DETPC)/Sodium Salt Of Diethyl Thio	5330	2670	8000			
4.	Phosphoryl Chloride (Na-DETA)	250	--	250			
5.	Cyhalothrin Acid	3400	--	3400			
6.	Phosphorous Penta Sulphide(P ₂ S ₅)	150	--	150			
7.	Acid Based Products [2-Bronobutyric Acid (INT),Ethyl 2-(4-Hydroxy Phenoxyl Propionate (O- HPPA) (INT), Thiocyclam (I), Bispyribac-Sodium (H), Methoxy Amino Hydrochloride (INT), 2-Hydroxyphenyl Acetic Acid (HPPA) (INT), Amino Acid (INT)] etc.	150	--	150			
8.	Amide Group Based Products [Pretiachlor (H), Captan (F), Cymoxanil (F), Beflubutamide (H), Pethoxamide (H), Carboxin (F), Flubendamide (I), Chlorantraniliprole (I), Thiaflusamide (F), Zoxamide(F), Flufenacet (H), 2-Aminosulfonyl-N,N-Dimethylnicotinamide (SNA) (INT), 2-(Methoxycarbonyl) Thiophene Thiophene-3 Sulfonamide (MST) (INT)] etc.	150	--	150			
9.	Aniline Group Bases Products [Pendimethalin(H), Fluazinam (F), Metataaxyi (F), Famoxadone (F)] etc.	1200	--	1200			
10.	Azine group based products Fenpyroximate (I), Metribuzin (H), Pymetrozin (I), Amitraz (I), Indoxacarb (I), Cofentezine (I), 2-Methoxy-4-Methyl-6-Methylamino-1,3,5-Triazine (MMT) (INT) etc.	300	--	300			
	Azole Group Based Products [Ipronil (I), Hexaconazole (F), Propiconazole (F), Difenconazole (F), Tebuconazole (F), Myclobutanil (F), Florasulam (H), Thiamethoxam (I), Flutriafol (F), Safenerisoxadifen Ethyl (Int), Imidacloprid (I), 2, 6 Dichlorobenzoxazolone(Int), Penoxasulam(H)] etc.	200	--	200			



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Sr. No.	Conditions	Compliance Status		
		500	--	500
11.	Carbamate Group Based Product [Thiodicarb(1), Propineb (F), Metiram (F), Thiram(F), Cartap Hydrochloride (1), Thiophanate Methyl (F) etc.	500	--	500
12.	Ester group based products [Fenoxyacprop-p-Et (H), Clodinafop-P(H), Quizalifop-p-ethyl (H), Quinzolifop-p-terfuryl(H), Cyhalofop(H), (F), Alphamethrin(1), Lambda Cyhaothrin(1), Cypermethrin (1), Bifenazate(1), Phthalide (Int) etc.	300	--	300
13.	Ether group based products [Propargite(1), oxyfluorfen(H), 2 Ethoxy Ethyl Amine (Int), S-Cyano MPB (Int)]etc.	200	--	200
14.	Ketone group based product [Mesotrione(H), Suctioned (H), Isoxanutole(H), Dimetomorph (F), Isobutyrophenone (IBP) (Int) etc.	1200	--	1200
15.	Phosphate group based product [Chlorpyrifos (1) or its intermediate Na-TCP (Int), Acephate(1), Monocrotophos(1) or its intermediates MCMMAA (Int), Dimefanoate (1), Profenofos(1), Ethephon (PGR) etc.	5000	--	5000
16.	Pyridine group based product [Pyridalyl(1), Imazethapyr(H) CloquintocetMetyl(H), Acetamiprid (1), 4, 6-DiChloro Pyridine (Int), Azoxystrobin(F)etc	250	--	250
17.	Urea group based product [Buprofezin(1), Lufenuron (1), Linuron (H), Diuron (H), Novaluron (1), Chlorimuron (1), (Int), Hexythiazox(1), Spiromesifen(1), Azimsulfuron(H), Sulfonyl Ureas(H)]etc.	100	--	100
18.	Pheno group based product [2-Cyanophenol (Int), 4- triluromethylphenole (Int) etc.	75	---	75
19.	Sulfentrazone	---	2000	2000
20.	F-9600 (2-(2,4-Dichlorobenzyl)-4,4-Dimethylisoxazolidin-3-one)/Bixazole	---	4200	4200
21.	F 9990 (Fluindapyr)	---	1200	1200
22.	Malathion	---	10000	10000
23.	F-4050 (2-(4-Fluoro-3-(Trifluoromethyl)Phenoxy)-N-Benzylbutanamide	---	1500	1500
24.	Beflubutamide	---	450	450
25.	Gamma Cyhalothrin	---	300	300
26.	Bifenthrin	---	300	300
27.	Clomazone	---	2000	2000
28.	FMC-57091 (4,4-Dimethyl Isoxazolidin-3-One)/(Isoxazolidinone)	---	2600	2600
29.	Thifensulfuron Methyl	---	205	205
30.	Tribenuron Methyl	---	215	215
31.	Metsulfuron Methyl	---	200	200
32.	Ethametsulfuron Methyl	---	10	10

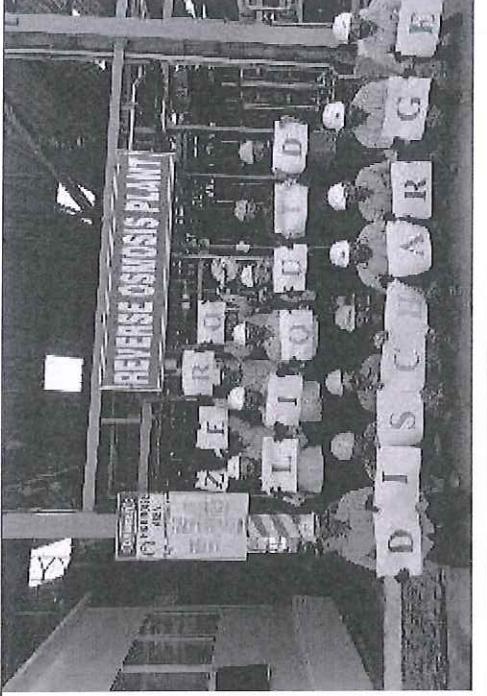
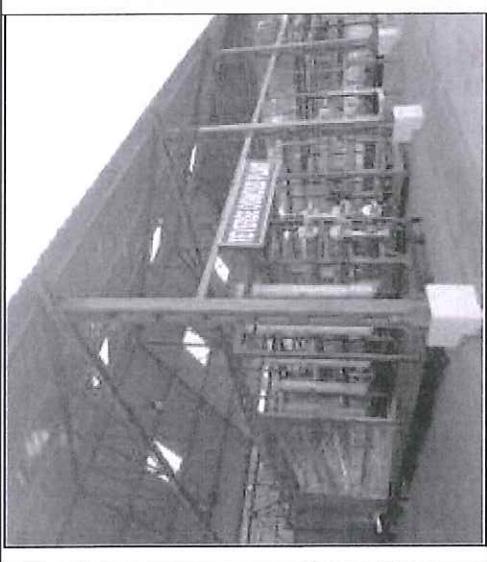


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Sr. No.	Conditions	Compliance Status
33. Chlorsulfuron	---	60
34. Triflusulfuron Methyl	---	50
35. Azimsulfuron	--	4
36. Flupyrsulfuron Methyl Sodium	---	12
Total	19705	27976
4. Existing land area is 149163.17 sqm. No additional land will be required for the proposed expansion. Industry has developed greenbelt in an area of 49497 sqm covering 33.18% of total project area. The estimated project cost is Rs. 790.36 crores. Total capital cost earmarked towards environmental pollution control measures is Rs 25.05 crores and the recurring cost (C&M) will be about Rs 102 crores per annum. The project will provide employment for 178 persons directly and 422 persons indirectly after expansion.	Noted. The condition mentioned beside will be followed.	
5. There are no National parks, Wildlife sanctuaries, Biosphere, Reserves, Tiger/Elephant Reserves, and Wildlife Corridors etc. within 10 km from the project site. Utkai canal flows at a distance of 1.66 km in west direction.	Noted. Unit is located within Notified GIDC Industrial Estate, Panoli.	
6. Total water requirement is estimated to be 1351 cum/day, which includes fresh water requirement of 764 cum/day, proposed to be met from GIDC supply.	Total GIDC water consumption data as per existing CTO is as below:	
Month	Quantity (KL/Month)	
April 2023	12599	
May 2023	13444	
June 2023	10517	
July 2023	8708	
August 2023	8136	
September 2023	7043	
Effluent of 206 cum/day will be treated through Effluent Treatment Plant (ETP) having Primary, Secondary & Tertiary Treatments, & treated effluent of 181 cum/day is discharged into underground conveyance pipeline connected to Final Effluent Treatment Plant (FETP) of M/s. Narmada Clean Tech (NCT). It has been now proposed that after expansion, existing and proposed unit shall ensure zero liquid discharge and there will be no discharge of treated/untreated waste water from the unit.		
Total wastewater generation which is treated in RO & MEE Plant and maintain ZLD is as below:		
Month	Quantity (KL/Month)	
April 2023	4545	
May 2023	5785	
June 2023	4761	
July 2023	5836	
August 2023	4396	
September 2023	3929	



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Sr. No.	Conditions	Compliance Status															
	RO Plant	MEE Plant															
			<p>At present unit has obtained partial CTO Amendment. Hence Present power consumption is 2700 KVA. Unit comply with the given condition.</p> <p>The details of total Power consumption met by M/s Dakshin Gujarat Vij Company Limited (DGVCL) as below</p> <table> <thead> <tr> <th>Month</th> <th>Power Consumption (Kwh)</th> </tr> </thead> <tbody> <tr> <td>April 2023</td> <td>1174860</td> </tr> <tr> <td>May 2023</td> <td>1221420</td> </tr> <tr> <td>June 2023</td> <td>975240</td> </tr> <tr> <td>July 2023</td> <td>1171800</td> </tr> <tr> <td>August 2023</td> <td>1106610</td> </tr> <tr> <td>September 2023</td> <td>895550</td> </tr> </tbody> </table>	Month	Power Consumption (Kwh)	April 2023	1174860	May 2023	1221420	June 2023	975240	July 2023	1171800	August 2023	1106610	September 2023	895550
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			<p>Existing unit has two natural gas-based boilers of 10 TPH capacities each and one briquettes/ bagasse/ groundnut shell-based boiler of 18 TPH capacity. Incinerator (for waste gas) and one natural gas based thermic fluid heater of 10 lakh Kcal/h will be installed in the expansion.</p>														
			<p>Noted and complied.</p>														



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Sr. No.	Conditions	Compliance Status
7.	The project/activities are covered under category A of item 5(b) 'Pesticides industry and Pesticide specific intermediates' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry.	Noted and complied.
8.	Standard terms of reference (ToR) for the project were granted on 23 rd March, 2018. Public hearing is exempted in accordance with the Ministry's OM dated 27 th April 2018, as the project site is located in the notified industrial area.	Noted.
9.	The proposal for environmental clearance was considered by the EAC (Industry-2) in its meetings held on 8-9 th April, 2019 and 26-28 June, 2019 in the Ministry, wherein the project proponent and their accredited consultant M/s. Siddhi Green Excellence Pvt. Ltd presented the EIA/EMP report complying with the terms and conditions of the ToR, and recommended the proposal for environmental clearance to the project with certain conditions.	Noted. Unit shall adhere and complies all the given conditions.
10.	The proposal was further examined in the Ministry in accordance with the Ministry's Office Memorandum dated 31 st October 2019 and Ministry's communication dated 24 th October 2019 regarding compliance of Hon'ble NGT order dated 19.8.2019 (published on 23.8.2019) in OA No. 1038/2018.	Noted.
11.	Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for Expansion of Pesticides and Pesticide Specific Intermediates from 19705 TPA to 47681 TPA by M/s. Cheminova India Limited (Intermediate Division) at Plot No. (27+28)/A, GIDC Industrial Estate, Panoli, Taluka Ankleswar, District Bharuch (Gujarat), under the provisions of the EIA Notification, 2006, read with subsequent amendments therein, subject to compliance of the terms and conditions as environmental safeguards, as under:-	Noted.
	(i) Consent to Establish/Operate (CTE/CTO) for the project shall be obtained from the State Pollution Control Board (SPCB) as required under the Air (Prevention and Control of Pollution)Act, 1981 and the water (Prevention and Control of Pollution) Act, 1974, and the SPCB shall follow the mechanism/protocol issued by the Ministry vide letter no. Q-16017/38/2018-CPA dated 24 th October, 2019 and forwarded by Central Pollution Control Board vide letter dated 25 th October, 2019 to the SPCB's while issuing the CTE/CTO for the project, for improvement of environmental quality in the area.	Consent to Establish was obtained via outward No. 15866 dated 4 th June 2020. Partial CTO Amendment was granted on 05-09-2022.
	(ii) Zero Liquid Discharge shall be ensured including existing facility and the proposed expansion facility and no waste/treated water shall be discharged outside the premises.	Unit has obtained CC&A Amendment and Zero Liquid Discharge is ensured and no waste/treated water is discharged outside the premises
	(iii) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.	Unit strictly adheres to the given condition.
	(iv) National Emission Standards for Pesticides Manufacturing Industry issued by the Ministry vide G.S.R.446(E) dated 13 th June, 2011, as amended from time to time, shall be followed.	Noted. National Emission Standards are complied.



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Sr. No.	Conditions	Compliance Status
	(v) No pesticides/chemicals banned by the Ministry of agriculture and Farmers welfare, or having $LD_{50}<100$ mg/kg shall be produced. Also, no raw material/solvent prohibited by the concerned regulatory authorities from time to time, shall be used for production of pesticides.	Unit commits that No banned pesticides/chemicals by the Ministry of agriculture and Farmers welfare, or having $LD_{50}<100$ mg/kg shall be produced and no prohibited raw material/solvent shall be used for production.
	(vi) To control source and the fugitive emissions (at 99.98%), suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	Noted & complied.
	(vii) Solvent management shall be carried out as follows :	All requirements of effective Solvent management Plan are implemented
	(a) Reactor shall be connected to chilled brine condenser system.	
	(b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.	
	(c) The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery.	
	(d) Solvents shall be stored in a separate space specified with all safety measures.	
	(e) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.	
	(f) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.	
	(g) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.	
	(viii) Total fresh water requirement shall not exceed 764 cum/day to be met from GIDC water supply. Prior permission in this regard shall be obtained from the concerned regulatory authority.	Noted and complied.
	(ix) Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system	Well-structured storm water drainage network is already available at site.
	(x) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and solvent transfer through pumps.	All the Hazardous chemicals are stored in tanks, tank farms, drums, carboys etc. Flame arresters are provided at all the tanks. Solvent transfer is done through pumps in closed loop system.
	(xi) Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.	Hazardous waste disposal details during the period April 2023 to September 2023 is as below:
Hazardous Waste Name	Disposal Quantity (MT)	Disposal mode
Process waste and res residue	640.645	Co-Processing



SIX MONTHLY EC COMPLIANCE REPORT

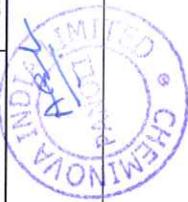
Sr. No.	Conditions	Compliance Status
	<p>(xii) The company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act, 1989.</p> <p>(xiii) The company shall undertake waste minimization measures as below:-</p> <ul style="list-style-type: none"> (a) Metering and control of quantities of active ingredients to minimize waste. (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapor recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation. <p>(xiv) The green belt of at least 5-10 m width shall be developed in nearly 40% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. In addition, the project proponent shall develop greenbelt outside the plant premises also such as avenue plantation, plantation in vacant areas, social forestry etc.</p>	<p>Unit stores all the hazardous chemicals based on the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. Also all safety measures are taken for transportation of Hazardous chemicals and guidelines of the Motor Vehicle Act, 1989 are complied.</p> <p>Unit follow the given condition.</p>    
		<p>Greenbelt Development</p> 

SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status
	<p>(xv) As committed, fund allocation for the Corporate Environment Responsibility (CER) shall be 5% of the total project cost. Item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.</p> <ul style="list-style-type: none"> Providing skill training and support for women empowerment to Kharod village = 6.50 lakh =completed in June2022 Providing skill training and support for women empowerment to Sanjali village = 6.50 lakh =completed in June2022 Providing streetlight and solar roof top to Umarwada village as sustainable solution = 25 lakh = Completed in May2022 Sponsorship of Cricket tournament trophy to kharod village to encourage sports activities in younggeneration= 1.15 lakh = completed in June22 <p>Total Fund Allocation In CER= 39.15 Lakh</p>	<p>Unit shall follow the given condition.</p> <p>Fund allocation for 2022 CERICCSR jobs for both Technical & Intermediate are as follow:</p> <ul style="list-style-type: none"> Providing skill training and support for women empowerment to Kharod village = 6.50 lakh =completed in June2022 Providing skill training and support for women empowerment to Sanjali village = 6.50 lakh =completed in June2022 Providing streetlight and solar roof top to Umarwada village as sustainable solution = 25 lakh = Completed in May2022 Sponsorship of Cricket tournament trophy to kharod village to encourage sports activities in younggeneration= 1.15 lakh = completed in June22

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

Sr. No.	Training Subject	Trainee Roles	Department
1.	Hot Work	General Awareness (1) Fire Watch	Security Person/Contract Supervisor/Trainees All Department
2.	Confined Space Entry	General Awareness (1) Rescue Team	Employees selected by Production and Mechanical Dept
3.	Energy Isolation, Lockout/Tagout (LOTO)	General Awareness (1) Other Person	Finance / Administration / Civil Distribution / Stores / Excise
		Safety (1) Authorized Person	HR / IT / Procurement / Tech Services Safety Mechanical Department



SIX MONTHLY EC COMPLIANCE REPORT

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



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Sr. No.	Conditions	Compliance Status
Photographs of trainings:	  	<p>(xvii) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.</p> <p>Presently, unit has appointed third party for carrying out regular monitoring of Flue gas analysis. Analysis reports for reference is attached below: Emissions are within specified limits. Acoustic enclosure is provided to DG set for controlling the noise pollution.</p>



SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status																																																																																																																												
	<p align="center">Siddhi Green Excellence PRIVATE LIMITED</p>  <p>REPORT NO.: SC/CILID/ST/MAY/2023/01 Issued to Ms. CHEMINOVA INDIA LTD. (INTERMEDIATE DIV.) Address: PLOT NO. 27-28A GIDC ESTATE PANOLI, TA: ANKLESHWAR, DIST: BHARUCH-394116 TC-5007</p> <p align="center">TEST REPORT Date of Issue: 23-05-2023</p> <table border="1"> <thead> <tr> <th>SR.NO.</th> <th>DESCRIPTION</th> <th>FLUE GAS STACK EMISSION ANALYSIS</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Particulars of Sample</td> <td>Stack No.1</td> </tr> <tr> <td>2</td> <td>PCB ID of Stack</td> <td>95313</td> </tr> <tr> <td>3</td> <td>Sample ID</td> <td>27728-FS-01</td> </tr> <tr> <td>4</td> <td>Name of Stack</td> <td>BOILER</td> </tr> <tr> <td>5</td> <td>Source</td> <td>BOILER(10 TPH) GT/4423</td> </tr> <tr> <td>6</td> <td>Date & Time of sampling</td> <td>17-05-2023 & 10:49 h</td> </tr> <tr> <td>7</td> <td>Date of Receipt</td> <td>17-05-2023</td> </tr> <tr> <td>8</td> <td>Date of Analysis start</td> <td>18-05-2023</td> </tr> <tr> <td></td> <td>Date of Completion</td> <td>19-05-2023</td> </tr> <tr> <td colspan="3">Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01</td> </tr> <tr> <td colspan="3">Details of Stack</td> </tr> <tr> <td>1</td> <td>Stack Height</td> <td>40 m</td> </tr> <tr> <td>2</td> <td>Stack Diameter</td> <td>-</td> </tr> <tr> <td>3</td> <td>Temperature of Flue gas</td> <td>128 °C</td> </tr> <tr> <td>4</td> <td>Velocity of Flue Gas</td> <td>8.03 m/s</td> </tr> <tr> <td colspan="3">Details of Flue Gas</td> </tr> <tr> <td>1</td> <td>Type of Fuel</td> <td>Natural gas</td> </tr> <tr> <td>2</td> <td>Rate of Consumption</td> <td>9000 m³/h</td> </tr> <tr> <td colspan="3">Parameters</td> </tr> <tr> <td>ANALYSED</td> <td>UNIT</td> <td>TEST METHOD</td> <td>PERMISSIBLE LIMIT (NOTE 2)</td> <td>RESULTS</td> </tr> <tr> <td>1 PM @ 12% CO2</td> <td>mg/Nm³</td> <td>IS 11556 (Part 1):1985, RA/2019</td> <td>120</td> <td>BDL(DL=5)</td> </tr> <tr> <td>2 SO₂</td> <td>ppm</td> <td>IS 11556 (Part 2):1985, RA/2019</td> <td>80</td> <td>BDL(DL=3)</td> </tr> <tr> <td>3 NOx</td> <td>ppm</td> <td>IS 11556 (Part 7):2005, RA/2017</td> <td>40</td> <td>13</td> </tr> <tr> <td colspan="5">Additions to deviations or exclusions from the method :-None</td> </tr> <tr> <td colspan="5">Results from external providers, if any :-None</td> </tr> <tr> <td colspan="5">Any other remarks -None</td> </tr> <tr> <td colspan="5">Abbreviations used :- BDL(Below Detection Limit)</td> </tr> <tr> <td colspan="5">Verified by </td> </tr> <tr> <td colspan="5">Coir 1 of 2</td> </tr> <tr> <td colspan="5">  Mrs. K. 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This report shall not be used as evidence in the court of law and shall not be reproduced except in full, without prior written approval of Siddhi Green Excellence Pvt. Ltd. *** End of Report *** </td> </tr> <tr> <td colspan="5"> Format No : SC/LAB/F/Report-03 Issue No.:02 Issue Date: 31-05-2019 Revision No : 02 Revision Date : 30-05-2020 GUJARAT S : Date: Off. :  www.siddhigreen.com : Read. Office :  </td> </tr> </tbody> </table>	SR.NO.	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SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status
	(xviii) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.	All the arrangements are made for protection of possible fire hazard during manufacturing process and material handling, The Fire hydrant system and fire extinguisher are available in all the areas and safe practices are adopted for handling and processing of flammable materials.



SIX MONTHLY EC COMPLIANCE REPORT

SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status
	(xix) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Pre-employment medical checkup is done for all the company employees and contract employees by Factory Medical Officer and records are maintained. Full medical checkup of employees as well as contract workers is carried out Six-monthly and records are maintained. BCA testing for concerned employees & workers exposed to production & packaging of pesticides carried by LOVIBOND kit for all before joining and periodic testing-monthly test for contract workers and every 3 months for company employees. Health register in Form No.32 & certificate of fitness is issued to workers by FMO in Form No.33. Photograph of medical checkup report is attached below:

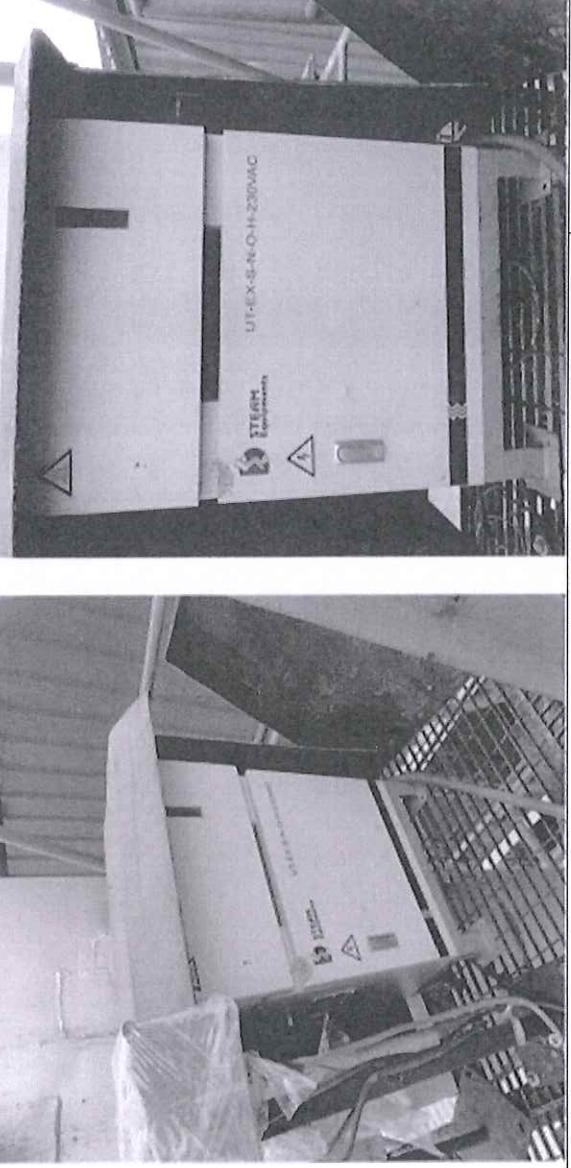


SIX MONTHLY EC COMPLIANCE REPORT

(xx) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online CEMS Provided at Briquette based Boiler

M/s. Cheminova India Limited (Intermediate Division)

SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status
	continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.	 <p>(xxi) Mitigation measures suggested during process safety and risk assessment studies shall be undertaken accordingly.</p>
11. 1	The grant of environmental clearance is subject to compliance of other general conditions, as under:-	<p>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.</p> <p>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.</p> <p>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.</p> <p>Unit carries out detailed process safety and risk assessment study in the operational phase and mitigation measures of the same are implemented.</p> <p>Noted</p> <p>Noted</p> <p>Unit carries out Ambient Air quality monitoring. Analysis results of the same is attached for reference:</p>



SIX MONTHLY EC COMPLIANCE REPORT

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



SIX MONTHLY EC COMPLIANCE REPORT



Siddhi Green Excellence
PRIVATE LIMITED



TC-S407

REPORT NO. : SC/CILID/NL/MAY/2023/10

TEST REPORT OF AMBIENT NOISE MEASUREMENT

Date of Issue: 23-05-2023

Issued to	M/s. CHEMINOVA INDIA LTD. (INTERMEDIATE DIV.)		
Address	PLOT NO.27/28/A GIDC ESTATE PANOLI, TA: ANKLESHWAR, DIST: BHARUCH-394116	Site (where measured)	same as above
Date of Monitoring	17-05-2023	Sample ID	27728
Instrument used	Lutron make Noise Level Meter (Model No. ST-4030)	Measured By	Mr. Ronil A.
Frequency Weighing	A	Instrument ID	SC-NM-06
Procedure :	As per Work Instruction of Instrument and as per IS:3969:1981, wind cover used during measurement.	Time Weighting	FAST
Environmental Conditions:		Season	Summer
DAYTIME READINGS (6 AM TO 10 PM)		NIGHT TIME READINGS (10 PM TO 6 AM)	
Time and Duration of Monitoring	11:59 to 14:34 h	Time and Duration of Monitoring	23:55 to 01:59 h
Average Ambient Temperature, °C	Average Wind speed, m/s	Predominant Wind direction	Average Ambient Temperature, °C
29	2.8	NE-SW	26
SR.NO.	LOCATION	READING NO.	NOISE LEVEL dB(A)
		DAY TIME	NIGHT TIME
1	Near Main Gate	NL-01	60
2	Near ETP Area	NL-02	72
3	Near SBS Plant	NL-03	69
4	Near Boiler	NL-04	69
5	Near Admin area	NL-05	61
6	Near DC set	NL-06	60
7	Near Chlorine yard	NL-07	65
8	Near FO Plant	NL-08	70
9	Near P1 Plant	NL-09	73
10	Near P2 Plant	NL-10	69
Permissible Limit for Industrial area as per schedule on Noise Pollution (Regulation and Control) Rules, 2000			
For Day Time in dB(A) Leq (6 AM TO 10 PM) :- 75			
Additional to, deviations, or exclusions from the method :-None			
Results from external providers, if any :-None			
Abbreviations used :- None			
Verified by		Authorized Signatory	COPY 1 OF 2
		Mrs. K. P. Shah/Mr. H. M. Shah	

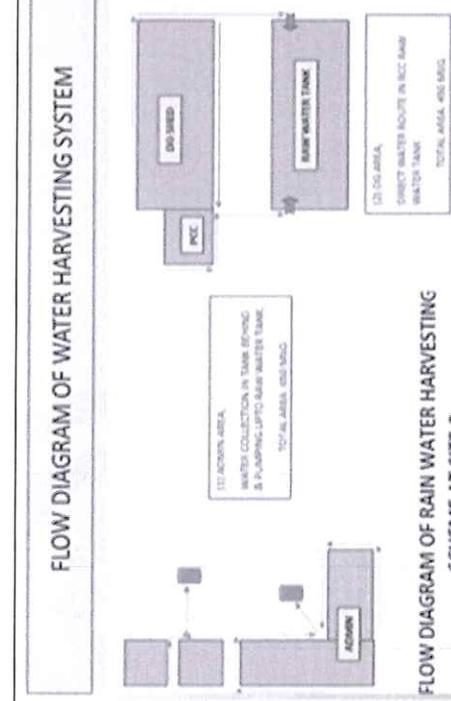
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*** End of Report ***

Format No : SC/LAB/F/Report-06 Issue No : 02 Date : 23-05-2019 Revision No : 05 Revision Date : 09-04-2022
 Page 1 of 1
 - Board Office - Dated Off : 23/05/2019



SIX MONTHLY EC COMPLIANCE REPORT

Sr. No.	Conditions	Compliance Status																		
(vi)	The company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	<p>The rain water harvesting work as a roof rain water harvest program inside premises @ 1100 sq. m. roof of office building and DG-PCC building is selected for this project. More than 900 KL water can be gained from rain fall every year which will reduce our demand of the raw water from the GIDC and also will save our valuable water resource. Copy of the flow diagram of water harvesting system is attached. Unit is in talks with GIDC regarding off-site rainwater harvesting and planning for the same.</p> <table border="1"> <thead> <tr> <th colspan="2">Details of Roof top rainwater harvesting.</th> </tr> <tr> <th>Month</th><th>Rainwater (KL)</th></tr> </thead> <tbody> <tr> <td>April 2023</td><td>0</td></tr> <tr> <td>May 2023</td><td>0</td></tr> <tr> <td>June 2023</td><td>61</td></tr> <tr> <td>July 2023</td><td>216</td></tr> <tr> <td>August 2023</td><td>6</td></tr> <tr> <td>September 2023</td><td>69</td></tr> <tr> <td>Total</td><td>352</td></tr> </tbody> </table>  	Details of Roof top rainwater harvesting.		Month	Rainwater (KL)	April 2023	0	May 2023	0	June 2023	61	July 2023	216	August 2023	6	September 2023	69	Total	352
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(vii)	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Unit complies with the given condition. Pre-employment and routine periodical medical examinations for all employees are done on regular basis. Regular training is imparted to all employees with regard to handling of chemicals.																		
(viii)	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	Unit follow the given condition.																		

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Sr. No.	Conditions	Compliance Status
(ix)	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. ESC activities shall be undertaken by involving local villages and administration.	Unit undertake Corporate social activities for the betterment of surrounding villages.
(x)	The company shall undertake eco-development measures including community welfare measures in the project area for the overall improvement of the environment.	Unit carry out CER activities as per the plan mentioned in the EIA report.
(xi)	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the state Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.	Unit commits that funds earmarked for environment management/ pollution control measures shall not be diverted for any other purpose
(xii)	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal.	Unit has sent copy of the clearance letter to Panchayat, Zilla Parishad/ Municipal Corporation, Urban local Body and the local NGO.
(xiii)	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of EC and six-monthly environmental clearance and six-monthly compliance status reports shall be posted on the website of the company.	Unit regularly submits six-month report to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of EC and six-monthly compliance status report is posted on the website of the company as well as regularly upload EC Compliance on PARIVESH Portal.
(xiv)	The environmental statement for each financial year ending 31 st march in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the environment (protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.	Unit is complying with the given condition. Form-V is regularly submitted to SPCB for each financial year.
(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.	Compiled. EC advertisement in two local newspapers in the vernacular language of the locality concerned has been done. Newspaper cutouts of the same are attached below:



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